SAR TEST REPORT

No. 24T04Z101721-018

For

HMD Global Oy

Mobile Phone

Model Name: TA-1658

with

Hardware Version: V1.0

Software Version: 000T_0_362

FCC ID: 2AJOTTA-1658

Issued Date: 2024-09-24

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.

Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

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

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn

REPORT HISTORY

Report Number	Revision	Issue Date	Description
24T04Z101721-018	Rev.0	2024-09-05	Initial creation of test report
24T04Z101721-018	Rev.1	2024-09-24	Update the information for section 14.

TABLE OF CONTENT

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℃

Extreme Temperature: -10/+55℃

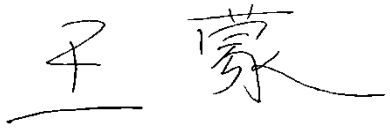
Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2024-08-03

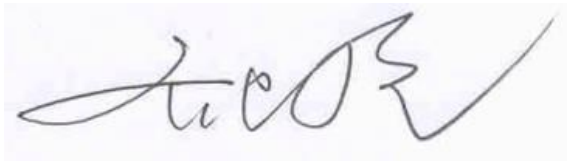
Testing End Date: 2024-08-31

1.5. Signature



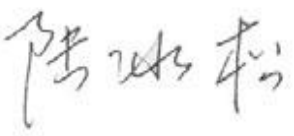
Wang Meng

(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 HMD Global Oy Mobile Phone TA-1658 are as follows:

Table 2.1: Highest Reported SAR (1g)

Mode		Antenna	Highest Reported SAR (1g)	
			1g SAR Head	1g SAR Body
GSM	GSM 850	ANT2	0.91	0.86
	PCS 1900	ANT1	0.39	1.15
WCDMA	UMTS FDD 5	ANT2	0.23	0.63
	UMTS FDD 4	ANT1	0.22	1.10
	UMTS FDD 2	ANT1	0.26	1.16
LTE	LTE Band 2	ANT1	0.13	1.18
	LTE Band 2	ANT5	0.70	0.56
	LTE Band 7	ANT5	1.12	1.18
	LTE Band 12/17	ANT2	0.14	0.28
	LTE Band 25	ANT1	0.19	1.11
	LTE Band 25	ANT5	0.74	0.72
	LTE Band 5/26	ANT2	0.21	0.47
	LTE Band 41 PC3	ANT5	1.07	1.00
	LTE Band 41 PC2	ANT5	1.06	1.16
	LTE Band 66	ANT1	0.22	0.81
	LTE Band 66	ANT5	0.52	0.35
	LTE Band 71	ANT2	0.20	0.36
NR	N2	ANT1	0.24	0.86
	N2	ANT5	0.61	0.54
	N5	ANT2	0.23	0.30
	N7	ANT5	1.11	1.03
	N25	ANT1	0.24	0.86
	N25	ANT5	0.55	0.64
	N41	ANT5	1.25	1.11
	N66	ANT1	0.27	0.85
	N66	ANT5	0.64	0.65
	N71	ANT2	0.16	0.42
	N77-L	ANT4	1.09	0.92
	N77-H	ANT4	1.07	0.99
	N78-L	ANT4	0.95	1.05
	N78-H	ANT4	1.15	0.71
WLAN 2.4 GHz		ANT7	1.09	0.42
WLAN 5 GHz		ANT6	0.88	1.06
BT		ANT7	0.25	0.07

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 10/15/22 mm 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**:**

Head:1.25 W/kg(1g)

Body:1.18 W/kg(1g)

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

	Position	Main antenna	WiFi	Sum
Highest SAR value	Rear 10mm	1.175 2A_n66A(ANT1+5)	0.423 WiFi2.4G	**1.598**

According to the above tables, the highest sum of reported SAR values is **1.598 W/kg (1g)**. The detail for simultaneous transmission consideration is described in chapter 14.

Conclusion:

According to the above tables, the sum of reported SAR values is<1.6W/kg for 1g SAR. So the simultaneous transmission SAR with volume scans is not required.

3 Client Information

3.1 Applicant Information

Company Name:	HMD Global Oy
Address/Post:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Contact Person:	Reza Serafat
Contact Email:	reza.serafat@hmdglobal.com
Telephone:	+491735287964
Fax	/

3.2 Manufacturer Information

Company Name:	HMD Global Oy
Address/Post:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Contact Person:	Reza Serafat
Contact Email:	reza.serafat@hmdglobal.com
Telephone:	+491735287964
Fax	/

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

4.1 About EUT

Description:	Mobile Phone
Model name:	TA-1658
Tested Band:	GSM850/1900, WCDMA B2/4/B5 LTE Band2/4/5/7/12/17/25/26/41/66/71 5G NR N2/5/7/25/41/66/71/77/78 BT, Wi-Fi(2.4G), Wi-Fi(5G)
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)
	1710 – 1755 MHz (LTE Band 4)
	824 – 849 MHz (LTE Band 5)
	2500 – 2570 MHz(LTE Band 7)
	699 – 716 MHz (LTE Band 12)
	704 –716 MHz (LTE Band 17)
	1850 – 1915 MHz(LTE Band 25)
	814 – 849 MHz (LTE Band 26)
	2496 – 2690 MHz (LTE Band 41)
	1710 – 1780 MHz (LTE Band 66)
	663 – 698 MHz (LTE Band 71)
	2412 – 2462 MHz (Wi-Fi 2.4G)
	5180 – 5240 MHz (Wi-Fi 5.2G)
	5260 – 5320 MHz (Wi-Fi 5.3G)
	5500 – 5720 MHz (Wi-Fi 5.5G)
	5745 – 5825 MHz (Wi-Fi 5.8G)
	2400 – 2483.5 MHz (Bluetooth)
	1850 – 1910 MHz(n2)
	824 – 849 MHz(n5)
	2500 – 2570 MHz (n7)
	1850 – 1915 MHz(n25)
	2496 – 2690 MHz (n41)
	1710– 1780 MHz (n66)
	663 – 698 MHz (n71)
	3450 – 3550 MHz (n77L)
	3700 – 3980 MHz (n77H)
	3450 – 3550 MHz (n78L)
	3700 – 3800 MHz (n78H)
	3450 – 3550 MHz (n78)
GPRS/EGPRS Multislot Class:	12
Test device production information:	Production unit
Device type:	Portable device
Antenna type:	Integrated antenna
Hotspot mode:	Support

4.2 Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	353401640000066/353401640000075	V1.0	000T_0_362
EUT2	353401640001643/353401640001659	V1.0	000T_0_362
EUT3	353401640000223/353401640000231	V1.0	000T_0_362
EUT4	353401640000165/353401640000173	V1.0	000T_0_362
EUT5	353401640002344/353401640002351	V1.0	000T_0_362
EUT6	353401640000447/353401640000454	V1.0	000T_0_362
EUT7	353401640000140/353401640000157	V1.0	000T_0_362

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

Note: It is performed to test SAR with the EUT1~5 and conducted power with the EUT6~7.

4.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN	Manufacturer
AE1	Battery	HBA5033AA	/	Huizhou Highpower Technology Co., Ltd.
AE2	Headset	JWEP1275-ZN01H	/	Ju wei electronics co., LTD

*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.

It specifies the maximum exposure limit of **4.0 W/kg** as averaged over any 10 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.

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

TCB Workshop Nov 2017:RF Exposure Procedures (Carrier Aggregation SAR)

TCB Workshop Nov 2019:RF Exposure Policy Updates (5G NR NSA Sub 6G SAR)

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 head 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

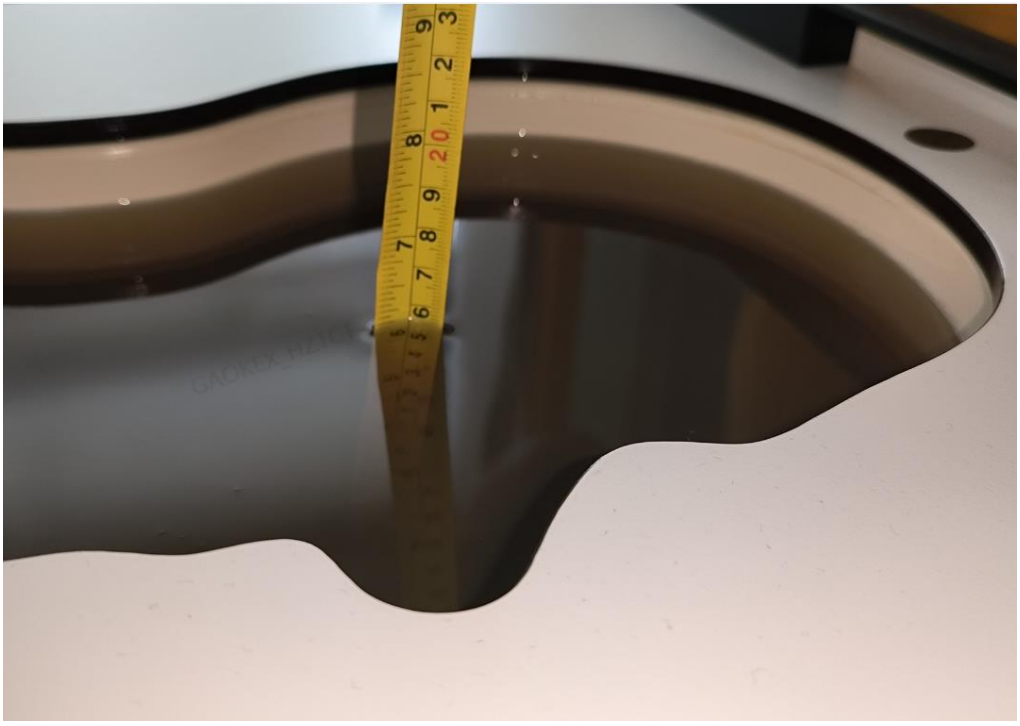
Frequency(MHz)	Liquid Type	Conductivity(σ)	±5% Range	Permittivity(ε)	± 5% Range
750	Head	0.89	0.85～0.93	41.94	39.8～44.0
835	Head	0.90	0.86～0.95	41.5	39.4～43.6
1750	Head	1.37	1.30～1.44	40.08	38.1～42.1
1900	Head	1.40	1.33～1.47	40.0	38.0～42.0
2450	Head	1.80	1.62～1.98	39.2	35.28～43.12
2600	Head	1.96	1.76～2.16	39.01	35.11～42.91
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

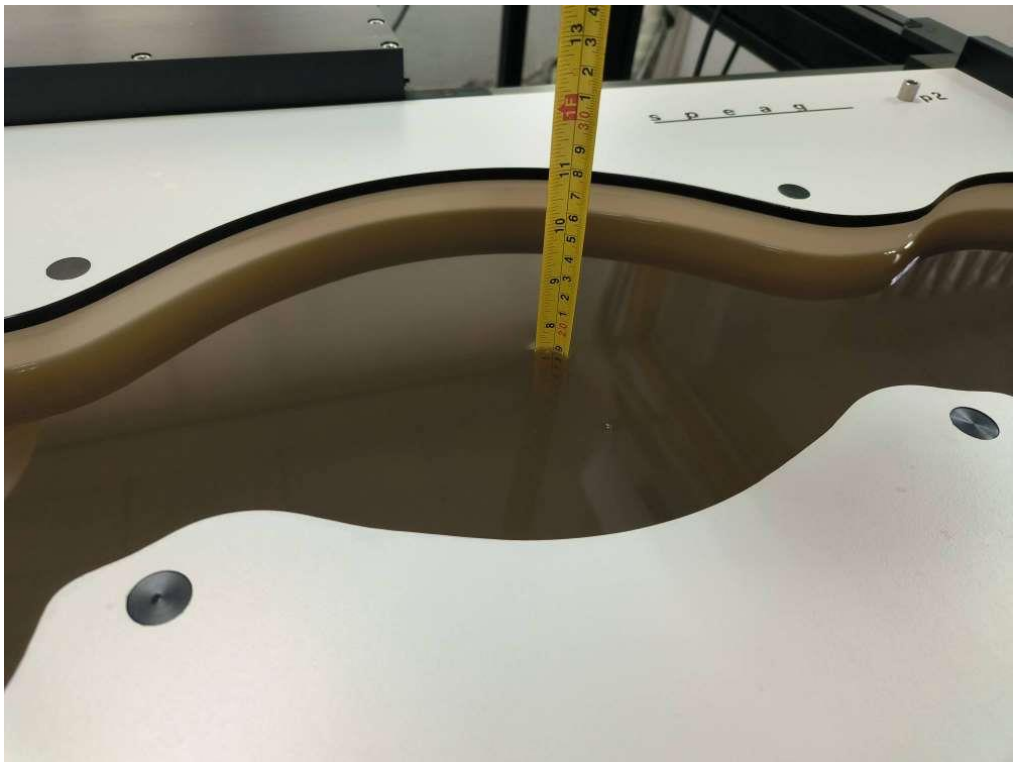
Table 7.2: Dielectric Performance of Tissue Simulating Liquid

Measurement Date (yyyy-mm-dd)	Type	Frequency	Permittivity ε	Drift (%)	Conductivity σ (S/m)	Drift (%)
2024/8/3	Head	750 MHz	42.97	2.46	0.911	2.36
2024/8/29	Head	835 MHz	42.66	2.80	0.94	4.44
2024/8/4	Head	835 MHz	42.41	2.19	0.935	3.89
2024/8/28	Head	1750 MHz	40.93	2.12	1.369	-0.07
2024/8/19	Head	1900 MHz	40.77	1.93	1.451	3.64
2024/8/16	Head	1900 MHz	40.53	1.33	1.442	3.00
2024/7/30	Head	2450 MHz	39.99	2.02	1.83	1.67
2024/8/22	Head	2600 MHz	39.76	1.92	1.945	-0.77
2024/8/28	Head	2600 MHz	39.52	1.31	1.933	-1.38
2024/8/23	Head	2600 MHz	40.2	3.05	1.966	0.31
2024/8/17	Head	3500 MHz	38.23	0.79	2.833	-2.65
2024/8/17	Head	3700 MHz	37.91	0.56	3.024	-3.08
2024/8/17	Head	3900 MHz	37.61	0.37	3.215	-3.16
2024/8/31	Head	5250 MHz	35.33	-1.67	4.513	-4.18
2024/8/31	Head	5600 MHz	34.71	-2.31	4.901	-3.33
2024/8/31	Head	5750 MHz	34.44	-2.60	5.072	-2.84

Note: The liquid temperature is 22.0℃



Picture 7-1 Liquid depth in the Head Phantom

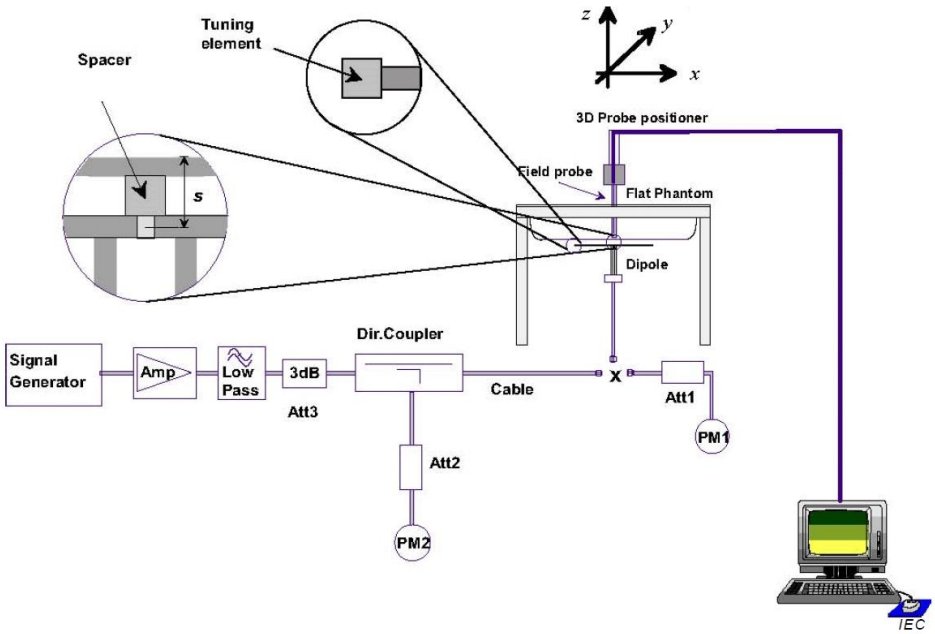


Picture 7-2 Liquid depth in the Flat Phantom

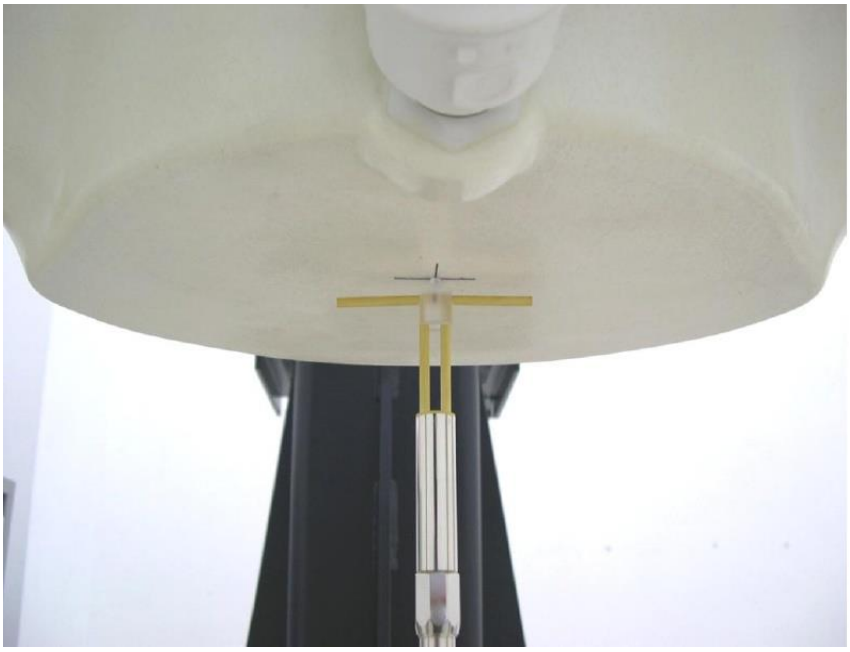
8 System verification

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.

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
2024/8/3	750 MHz	5.53	8.52	5.72	8.56	3.44%	0.47%
2024/8/29	835 MHz	6.09	9.47	6.20	9.40	1.81%	-0.74%
2024/8/4	835 MHz	6.09	9.47	6.08	9.44	-0.16%	-0.32%
2024/8/28	1750 MHz	19.8	37.2	19.3	35.8	-2.42%	-3.87%
2024/8/19	1900 MHz	20.6	39.1	21.2	41.2	2.72%	5.37%
2024/8/16	1900 MHz	20.6	39.1	20.6	39.4	0.19%	0.66%
2024/7/30	2450 MHz	24.5	52.2	24.5	52.4	0.08%	0.38%
2024/8/22	2600 MHz	24.8	54.9	24.6	54.8	-0.81%	-0.18%
2024/8/28	2600 MHz	24.8	54.9	24.2	54.4	-2.26%	-0.91%
2024/8/23	2600 MHz	24.8	54.9	24.7	56.4	-0.32%	2.73%
2024/8/17	3500 MHz	25.7	68.00	25.4	66.4	-1.17%	-2.35%
2024/8/17	3700 MHz	24.9	68.7	24.1	66.3	-3.21%	-3.49%
2024/8/17	3900 MHz	24.5	70.2	23.8	67.5	-2.86%	-3.85%
2024/8/31	5250 MHz	22.4	78.3	21.7	78.2	-3.13%	-0.13%
2024/8/31	5600 MHz	23.2	81.7	22.6	81.4	-2.59%	-0.37%
2024/8/31	5750 MHz	22.8	79.9	22.3	78.1	-2.19%	-2.25%

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.

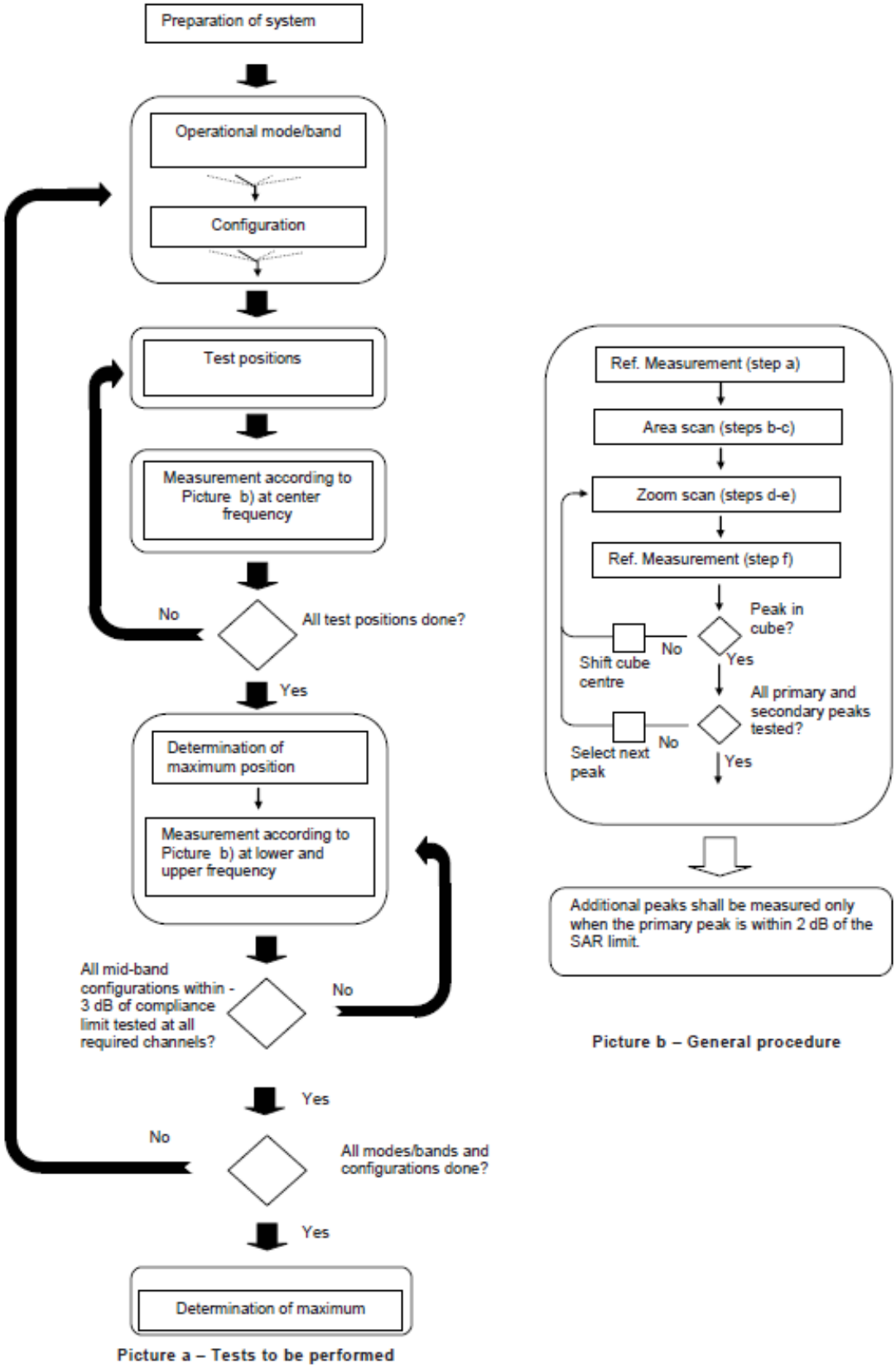
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band (f_c) for:

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 within3 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 IEEE Std 1528-2003. 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.

<table>
<tr><td colspan="3"></td><td>≤ 3 GHz</td><td>> 3 GHz</td></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5 ± 1 mm</td><td>½·δ·ln(2) ± 0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30° ± 1°</td><td>20° ± 1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}</td><td>≤ 2 GHz: ≤ 15 mm
2 – 3 GHz: ≤ 12 mm</td><td>3 – 4 GHz: ≤ 12 mm
4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}</td><td>≤ 2 GHz: ≤ 8 mm
2 – 3 GHz: ≤ 5 mm*</td><td>3 – 4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">uniform grid: $\Delta z_{Zoom}(n)$</td><td>≤ 5 mm</td><td>3 – 4 GHz: ≤ 4 mm
4 – 5 GHz: ≤ 3 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface</td><td>≤ 4 mm</td><td>3 – 4 GHz: ≤ 3 mm
4 – 5 GHz: ≤ 2.5 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td>$\Delta z_{Zoom}(n>1)$: between subsequent points</td><td colspan="2">≤ 1.5·$\Delta z_{Zoom}(n-1)$</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥ 30 mm</td><td>3 – 4 GHz: ≥ 28 mm
4 – 5 GHz: ≥ 25 mm
5 – 6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">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 <u>reported</u> 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.</td></tr>
</table>

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	β_{ed1}:47/15 β_{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 & Rchwarz 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.

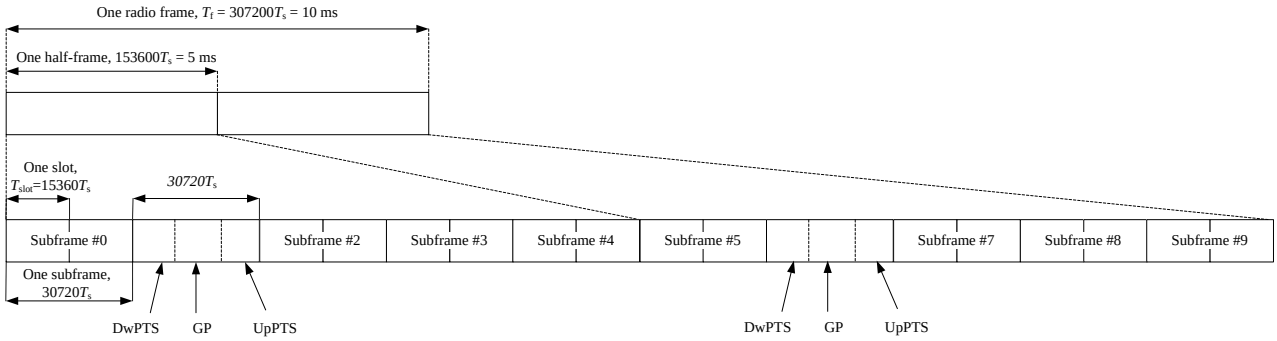


Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)

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	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
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:

Duty factor = uplink frame*6+UpPTS*2/one frame length

= (30720.T_s * 6+5120. T_s*2)/307200.T_s

= 0.633

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 NR Measurement Procedures for SAR

Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.

9.7 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 section14 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. 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 55wireless handsets. For the sample size studied, the root-mean-squared errors of the algorithm mare 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

Receiver on (Standalone)	Receiver off+senosr on (Standalone)	Receiver on (simultaneous transmission)	Receiver off+senosr on (simultaneous transmission)	Receiver off+senosr off
A	B	C	D	E

11.1 GSM Measurement result

GSM850_A/B

GSM 850 Speech (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	33.39	33.54	33.38	34.00	/	/	/	/
GSM 850 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	33.35	33.33	33.07	34.00	-9.03	24.32	24.30	24.04
2 Txslots	30.85	30.32	30.62	32.00	-6.02	24.83	24.30	24.60
3Txslots	28.84	28.74	28.58	30.00	-4.26	24.58	24.48	24.32
4 Txslots	27.95	28.09	27.70	29.00	-3.01	24.94	25.08	24.69
GSM 850 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	33.33	33.35	33.10	34.00	-9.03	24.30	24.32	24.07
2 Txslots	30.84	30.34	30.61	32.00	-6.02	24.82	24.32	24.59
3Txslots	28.93	28.76	28.59	30.00	-4.26	24.67	24.50	24.33
4 Txslots	27.98	28.11	27.72	29.00	-3.01	24.97	25.10	24.71
GSM 850 EGPRS (8PSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	26.19	26.41	26.16	26.50	-9.03	17.16	17.38	17.13
2 Txslots	25.27	25.38	25.16	26.50	-6.02	19.25	19.36	19.14
3Txslots	23.66	23.84	23.70	24.50	-4.26	19.40	19.58	19.44
4 Txslots	22.35	22.53	22.36	23.50	-3.01	19.34	19.52	19.35

GSM1900_A

GSM 1900 Speech (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	30.66	30.78	30.91	31.00	/	/	/	/
GSM 1900 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	30.65	30.70	30.87	31.00	-9.03	21.62	21.67	21.84
2 Txslots	28.18	28.08	28.25	29.00	-6.02	22.16	22.06	22.23
3Txslots	26.09	26.17	26.44	27.00	-4.26	21.83	21.91	22.18
4 Txslots	25.18	25.16	25.39	26.00	-3.01	22.17	22.15	22.38
GSM 1900 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	30.71	30.70	30.90	31.00	-9.03	21.68	21.67	21.87
2 Txslots	28.02	28.18	28.46	29.00	-6.02	22.00	22.16	22.44
3Txslots	26.11	26.18	26.45	27.00	-4.26	21.85	21.92	22.19
4 Txslots	25.16	25.16	25.36	26.00	-3.01	22.15	22.15	22.35
GSM 1900 EGPRS (8PSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	26.66	26.78	25.95	27.50	-9.03	17.63	17.75	16.92
2 Txslots	24.60	24.61	24.85	25.50	-6.02	18.58	18.59	18.83
3Txslots	22.38	23.16	23.22	23.50	-4.26	18.12	18.90	18.96
4 Txslots	20.98	21.77	21.96	22.50	-3.01	17.97	18.76	18.95

GSM1900_B

GSM 1900 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	27.76	27.73	27.89	28.00	-9.03	18.73	18.70	18.86
2 Txslots	25.18	25.19	25.33	26.00	-6.02	19.16	19.17	19.31
3Txslots	23.71	23.42	23.64	24.00	-4.26	19.45	19.16	19.38
4 Txslots	22.51	22.27	22.41	23.00	-3.01	19.50	19.26	19.40
GSM 1900 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	27.86	27.82	27.95	28.00	-9.03	18.83	18.79	18.92
2 Txslots	25.29	25.24	25.36	26.00	-6.02	19.27	19.22	19.34
3Txslots	23.70	23.49	23.61	24.00	-4.26	19.44	19.23	19.35
4 Txslots	22.50	22.25	22.45	23.00	-3.01	19.49	19.24	19.44
GSM 1900 EGPRS (8PSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	24.21	24.19	23.27	24.50	-9.03	15.18	15.16	14.24
2 Txslots	22.07	22.00	21.04	22.50	-6.02	16.05	15.98	15.02
3Txslots	19.52	19.52	19.96	20.50	-4.26	15.26	15.26	15.70
4 Txslots	19.46	19.47	19.04	19.50	-3.01	16.45	16.46	16.03

11.2 WCDMA Measurement result

WCDMA1900_A

Item	band	FDDII result			
	ARFCN	9538 (1907.6MHz)	9400 (1880MHz)	9262 (1852.4MHz)	Tune up
WCDMA	\	24.02	24.01	24.12	25.00
HSUPA	1	23.07	23.01	23.04	24.00
	2	20.91	20.93	20.97	22.00
	3	22.05	22.11	22.08	24.00
	4	20.66	20.67	20.65	22.00
	5	22.96	23.04	23.00	24.00
HSPA+	\	22.77	22.70	22.71	24.00
DC-HSDPA	1	23.07	23.04	23.13	24.00
	2	23.15	23.07	23.12	24.00
	3	22.66	22.54	22.59	23.00
	4	22.67	22.63	22.61	23.00

WCDMA1900_B

Item	band	FDDII result			
	ARFCN	9538 (1907.6MHz)	9400 (1880MHz)	9262 (1852.4MHz)	Tune up
WCDMA	\	22.72	22.61	22.55	23.50
HSUPA	1	21.47	21.44	21.49	22.50
	2	19.43	19.45	19.42	20.50
	3	20.54	20.59	20.53	22.50
	4	19.03	19.05	19.10	20.50
	5	21.44	21.49	21.45	22.50
HSPA+	\	21.03	21.17	21.10	22.50
DC-HSDPA	1	21.69	21.66	21.61	22.50
	2	21.64	21.60	21.59	22.50
	3	21.03	21.17	21.09	21.50
	4	21.04	21.13	21.11	21.50

WCDMA1700_A

Item	band	FDDIV result			
	ARFCN	1513 (1752.6MHz)	1412 (1732.4MHz)	1312 (1712.4MHz)	Tune up
WCDMA	\	24.03	24.10	24.02	25.00
HSUPA	1	22.83	22.87	22.81	24.00
	2	20.84	20.89	20.83	22.00
	3	22.08	22.03	22.07	24.00
	4	20.64	20.73	20.66	22.00
	5	22.76	22.94	22.80	24.00
HSPA+	\	22.51	22.59	22.53	24.00
DC-HSDPA	1	23.06	23.03	23.02	24.00
	2	23.01	23.05	23.02	24.00
	3	22.58	22.61	22.53	23.00
	4	22.55	22.64	22.54	23.00

WCDMA1700_B

Item	band	FDDIV result			
	ARFCN	1513 (1752.6MHz)	1412 (1732.4MHz)	1312 (1712.4MHz)	Tune up
WCDMA	\	21.83	21.88	21.92	23.00
HSUPA	1	20.74	20.62	20.73	22.00
	2	18.91	18.74	18.85	20.00
	3	20.08	20.05	20.04	22.00
	4	18.72	18.68	18.69	20.00
	5	20.78	20.60	20.72	22.00
HSPA+	\	20.11	20.08	20.16	22.00
DC-HSDPA	1	20.93	20.90	20.85	22.00
	2	20.87	20.82	20.84	22.00
	3	20.35	20.39	20.39	21.00
	4	20.37	20.36	20.39	21.00

WCDMA850_A/B

Item	band	FDDV result			
	ARFCN	4233 (846.6MHz)	4183 (836.6MHz)	4132 (826.4MHz)	Tune up
WCDMA	\	24.04	24.07	24.14	25.00
HSUPA	1	22.88	22.83	22.85	24.00
	2	20.91	20.88	20.95	22.00
	3	22.05	22.04	22.12	24.00
	4	21.04	21.10	21.13	22.00
	5	23.1	23.11	23.14	24.00
HSPA+	\	22.68	22.64	22.71	24.00
DC-HSDPA	1	23.03	23.01	23.08	24.00
	2	23.14	23.07	23.11	24.00
	3	22.66	22.57	22.60	23.00
	4	22.71	22.61	22.71	23.00

11.3 LTE Measurement result

Maximum Target Power for Production Unit

Band	ANT	Tune up (dBm)				
		A	B	C	D	E
Band 2	1	24.5	23.5	24.5	20.5	24.5
Band 2	5	/	/	20	22	24.5
Band 7	5	18	19	18	17	24.5
Band 12/17	2	24.5	24.5	24.5	24.5	24.5
Band 25	1	24.5	23.5	24.5	20.5	24.5
Band 25	5	/	/	20	22	24.5
Band 5/26	2	24.5	24.5	24.5	24.5	24.5
Band 38/41 PC3	5	19.5	19.5	19.5	17.5	24.5
Band 41 PC2	5	22	22	22	20	27
Band 4/66	1	24.5	22.5	24.5	19.5	24.5
Band 4/66	5	/	/	22	24.5	24.5
Band 71	2	24.5	24.5	24.5	24.5	24.5

Maximum Power Reduction (MPR) for LTE

Modulation	1.4 MHz	MPR	3 MHz	MPR	5 MHz	MPR	10 MHz	MPR	15 MHz	MPR	20 MHz	MPR (dB)
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 Band2 ANT1_A/C/E

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	23.58	22.82	21.54	18.44
		1880 (18900)	23.32	22.80	21.40	18.61
		1850.7 (18607)	23.32	22.67	21.61	18.38
	1RB-Middle (3)	1909.3 (19193)	23.38	22.89	21.50	18.21
		1880 (18900)	23.41	22.91	21.70	18.65
		1850.7 (18607)	23.37	22.81	21.53	18.64
	1RB-Low (0)	1909.3 (19193)	23.34	22.85	21.40	18.46
		1880 (18900)	23.34	22.71	21.41	18.59
		1850.7 (18607)	23.28	22.94	21.47	18.24
	3RB-High (3)	1909.3 (19193)	23.35	22.62	21.51	18.46
		1880 (18900)	23.39	22.76	21.55	18.61
		1850.7 (18607)	23.34	22.63	21.46	18.33
	3RB-Middle (1)	1909.3 (19193)	23.34	22.67	21.47	18.65
		1880 (18900)	23.45	22.56	21.50	18.69
		1850.7 (18607)	23.36	22.74	21.47	18.60
	3RB-Low (0)	1909.3 (19193)	23.33	22.73	21.54	18.20
		1880 (18900)	23.37	22.66	21.46	18.37
		1850.7 (18607)	23.37	22.62	21.56	18.26
	6RB (0)	1909.3 (19193)	22.44	21.71	20.44	18.31
		1880 (18900)	22.39	21.58	20.53	18.28
		1850.7 (18607)	22.40	21.56	20.49	18.64
3MHz	1RB-High (14)	1908.5 (19185)	23.30	23.07	21.50	18.34
		1880 (18900)	23.39	22.80	21.55	18.49
		1851.5 (18615)	23.35	22.78	21.51	18.41
	1RB-Middle (7)	1908.5 (19185)	23.65	22.88	21.71	18.28
		1880 (18900)	23.46	23.02	21.54	18.63
		1851.5 (18615)	23.38	22.92	21.52	18.67
	1RB-Low (0)	1908.5 (19185)	23.36	22.81	21.55	18.56
		1880 (18900)	23.37	22.88	21.48	18.34
		1851.5 (18615)	23.26	22.89	21.51	18.46
	8RB-High (7)	1908.5 (19185)	22.41	21.64	20.46	18.37
		1880 (18900)	22.44	21.69	20.53	18.66
		1851.5 (18615)	22.37	21.61	20.49	18.61
	8RB-Middle (4)	1908.5 (19185)	22.45	21.77	20.53	18.44
		1880 (18900)	22.43	21.66	20.55	18.24
		1851.5 (18615)	22.45	21.64	20.52	18.37
	8RB-Low (0)	1908.5 (19185)	22.34	21.45	20.45	18.48
		1880 (18900)	22.32	21.59	20.42	18.48
		1851.5 (18615)	22.41	21.55	20.52	18.28
	15RB (0)	1908.5 (19185)	22.47	21.58	20.43	18.30
		1880 (18900)	22.45	21.53	20.39	18.55
		1851.5 (18615)	22.43	21.57	20.46	18.52

5MHz	1RB-High (24)	1907.5 (19175)	23.36	23.06	21.71	18.46
		1880 (18900)	23.35	22.88	21.66	18.24
		1852.5 (18625)	23.35	22.82	21.54	18.23
	1RB-Middle (12)	1907.5 (19175)	23.43	23.03	21.64	18.58
		1880 (18900)	23.49	22.97	21.69	18.50
		1852.5 (18625)	23.35	22.77	21.56	18.55
	1RB-Low (0)	1907.5 (19175)	23.33	22.96	21.52	18.47
		1880 (18900)	23.30	23.14	21.51	18.46
		1852.5 (18625)	23.26	22.79	21.55	18.33
	12RB-High (13)	1907.5 (19175)	22.45	21.57	20.45	18.38
		1880 (18900)	22.38	21.61	20.56	18.29
		1852.5 (18625)	22.42	21.58	20.55	18.46
	12RB-Middle (6)	1907.5 (19175)	22.50	21.70	20.56	18.65
		1880 (18900)	22.44	21.58	20.48	18.66
		1852.5 (18625)	22.44	21.59	20.55	18.27
	12RB-Low (0)	1907.5 (19175)	22.37	21.46	20.46	18.22
		1880 (18900)	22.37	21.58	20.50	18.69
		1852.5 (18625)	22.42	21.62	20.53	18.44
	25RB (0)	1907.5 (19175)	22.52	21.65	20.51	18.62
		1880 (18900)	22.44	21.58	20.50	18.56
		1852.5 (18625)	22.42	21.58	20.50	18.22
10MHz	1RB-High (49)	1905 (19150)	23.39	22.66	21.68	18.36
		1880 (18900)	23.32	22.78	21.62	18.39
		1855 (18650)	23.32	22.93	21.52	18.48
	1RB-Middle (24)	1905 (19150)	23.40	22.82	21.69	18.41
		1880 (18900)	23.33	22.90	21.55	18.53
		1855 (18650)	23.41	22.80	21.58	18.62
	1RB-Low (0)	1905 (19150)	23.39	22.92	21.59	18.31
		1880 (18900)	23.39	22.92	21.51	18.47
		1855 (18650)	23.30	22.77	21.61	18.32
	25RB-High (25)	1905 (19150)	22.47	21.68	20.50	18.28
		1880 (18900)	22.43	21.65	20.59	18.28
		1855 (18650)	22.43	21.57	20.52	18.53
	25RB-Middle (12)	1905 (19150)	22.48	21.72	20.57	18.31
		1880 (18900)	22.41	21.65	20.48	18.58
		1855 (18650)	22.40	21.68	20.49	18.53
	25RB-Low (0)	1905 (19150)	22.30	21.51	20.44	18.31
		1880 (18900)	22.37	21.50	20.44	18.61
		1855 (18650)	22.36	21.46	20.38	18.20
	50RB (0)	1905 (19150)	22.48	21.66	20.53	18.61
		1880 (18900)	22.30	21.51	20.42	18.42
		1855 (18650)	22.37	21.56	20.50	18.54

15MHz	1RB-High (74)	1902.5 (19125)	23.23	22.59	21.68	18.53
		1880 (18900)	23.25	22.54	21.39	18.31
		1857.5 (18675)	23.25	22.55	21.36	18.38
	1RB-Middle (37)	1902.5 (19125)	23.30	22.70	21.74	18.32
		1880 (18900)	23.20	22.63	21.46	18.59
		1857.5 (18675)	23.25	22.77	21.19	18.21
	1RB-Low (0)	1902.5 (19125)	23.17	22.67	21.24	18.28
		1880 (18900)	23.14	22.74	21.49	18.63
		1857.5 (18675)	23.22	22.60	21.34	18.22
	36RB-High (38)	1902.5 (19125)	22.35	21.45	20.39	18.22
		1880 (18900)	22.31	21.51	20.41	18.51
		1857.5 (18675)	22.28	21.45	20.35	18.46
	36RB-Middle (19)	1902.5 (19125)	22.24	21.35	20.31	18.42
		1880 (18900)	22.27	21.40	20.32	18.34
		1857.5 (18675)	22.26	21.44	20.33	18.35
	36RB-Low (0)	1902.5 (19125)	22.29	21.47	20.36	18.36
		1880 (18900)	22.17	21.46	20.29	18.54
		1857.5 (18675)	22.12	21.32	20.31	18.46
	75RB (0)	1902.5 (19125)	22.20	21.40	20.35	18.68
		1880 (18900)	22.14	21.41	20.23	18.23
		1857.5 (18675)	22.25	21.41	20.32	18.33
20MHz	1RB-High (99)	1900 (19100)	23.13	22.43	21.28	18.54
		1880 (18900)	23.22	22.46	21.30	18.63
		1860 (18700)	23.11	22.32	21.29	18.62
	1RB-Middle (50)	1900 (19100)	23.25	22.18	21.36	18.55
		1880 (18900)	23.33	22.46	21.27	18.65
		1860 (18700)	23.22	22.32	21.46	18.49
	1RB-Low (0)	1900 (19100)	23.10	22.23	21.40	18.35
		1880 (18900)	23.32	22.28	21.29	18.23
		1860 (18700)	23.18	22.28	21.43	18.25
	50RB-High (50)	1900 (19100)	22.32	21.23	20.23	18.25
		1880 (18900)	22.29	21.24	20.28	18.49
		1860 (18700)	22.21	21.30	20.22	18.23
	50RB-Middle (25)	1900 (19100)	22.33	21.31	20.27	18.31
		1880 (18900)	22.40	21.18	20.26	18.45
		1860 (18700)	22.36	21.32	20.35	18.49
	50RB-Low (0)	1900 (19100)	22.20	21.27	20.21	18.54
		1880 (18900)	22.26	21.19	20.20	18.65
		1860 (18700)	22.17	21.26	20.28	18.65
	100RB (0)	1900 (19100)	22.29	21.31	20.29	18.22
		1880 (18900)	22.19	21.17	20.19	18.66
		1860 (18700)	22.33	21.30	20.31	18.26

LTE Band2 ANT1_B

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	22.27	22.12	21.20	18.46
		1880 (18900)	22.39	22.35	21.35	18.42
		1850.7 (18607)	22.32	22.22	21.36	18.39
	1RB-Middle (3)	1909.3 (19193)	22.36	22.31	21.26	18.51
		1880 (18900)	22.48	22.43	21.39	18.69
		1850.7 (18607)	22.40	22.35	21.34	18.25
	1RB-Low (0)	1909.3 (19193)	22.38	22.19	21.21	18.42
		1880 (18900)	22.40	22.19	21.53	18.27
		1850.7 (18607)	22.32	22.40	21.37	18.40
	3RB-High (3)	1909.3 (19193)	22.34	21.99	21.17	18.67
		1880 (18900)	22.44	22.15	21.32	18.20
		1850.7 (18607)	22.38	22.19	21.36	18.65
	3RB-Middle (1)	1909.3 (19193)	22.38	22.02	21.31	18.50
		1880 (18900)	22.40	22.07	21.35	18.54
		1850.7 (18607)	22.42	22.03	21.39	18.54
	3RB-Low (0)	1909.3 (19193)	22.39	21.99	21.20	18.41
		1880 (18900)	22.42	22.17	21.39	18.32
		1850.7 (18607)	22.42	22.13	21.30	18.51
	6RB (0)	1909.3 (19193)	22.33	21.10	20.27	18.28
		1880 (18900)	22.49	21.15	20.35	18.21
		1850.7 (18607)	22.43	21.13	20.22	18.58
3MHz	1RB-High (14)	1908.5 (19185)	22.47	22.34	21.26	18.41
		1880 (18900)	22.40	22.41	21.39	18.39
		1851.5 (18615)	22.36	22.32	21.32	18.59
	1RB-Middle (7)	1908.5 (19185)	22.50	22.27	21.32	18.26
		1880 (18900)	22.49	22.42	21.41	18.52
		1851.5 (18615)	22.53	22.25	21.42	18.23
	1RB-Low (0)	1908.5 (19185)	22.34	22.31	21.28	18.53
		1880 (18900)	22.37	22.33	21.25	18.45
		1851.5 (18615)	22.35	22.32	21.37	18.39
	8RB-High (7)	1908.5 (19185)	22.44	21.07	20.27	18.22
		1880 (18900)	22.44	21.08	20.36	18.34
		1851.5 (18615)	22.40	21.07	20.31	18.26
	8RB-Middle (4)	1908.5 (19185)	22.46	21.09	20.34	18.28
		1880 (18900)	22.53	21.18	20.37	18.39
		1851.5 (18615)	22.48	21.09	20.33	18.54
	8RB-Low (0)	1908.5 (19185)	22.37	20.92	20.18	18.39
		1880 (18900)	22.39	21.01	20.30	18.22
		1851.5 (18615)	22.40	21.06	20.33	18.26
	15RB (0)	1908.5 (19185)	22.43	21.01	20.27	18.52
		1880 (18900)	22.43	21.03	20.23	18.47
		1851.5 (18615)	22.46	21.09	20.36	18.58

5MHz	1RB-High (24)	1907.5 (19175)	22.40	22.19	21.44	18.25
		1880 (18900)	22.39	22.28	21.35	18.20
		1852.5 (18625)	22.40	22.31	21.44	18.32
	1RB-Middle (12)	1907.5 (19175)	22.47	22.28	21.45	18.67
		1880 (18900)	22.51	22.50	21.37	18.26
		1852.5 (18625)	22.45	22.35	21.39	18.52
	1RB-Low (0)	1907.5 (19175)	22.45	22.22	21.38	18.57
		1880 (18900)	22.41	22.20	21.22	18.36
		1852.5 (18625)	22.37	22.45	21.19	18.38
	12RB-High (13)	1907.5 (19175)	22.39	21.08	20.30	18.68
		1880 (18900)	22.47	21.06	20.38	18.52
		1852.5 (18625)	22.48	21.05	20.36	18.69
	12RB-Middle (6)	1907.5 (19175)	22.46	21.15	20.33	18.34
		1880 (18900)	22.46	21.09	20.32	18.54
		1852.5 (18625)	22.50	21.08	20.39	18.57
	12RB-Low (0)	1907.5 (19175)	22.47	21.08	20.31	18.54
		1880 (18900)	22.35	20.96	20.33	18.48
		1852.5 (18625)	22.45	21.15	20.34	18.29
	25RB (0)	1907.5 (19175)	22.49	21.00	20.28	18.36
		1880 (18900)	22.44	21.06	20.24	18.32
		1852.5 (18625)	22.47	20.99	20.35	18.21
10MHz	1RB-High (49)	1905 (19150)	22.40	22.51	21.48	18.47
		1880 (18900)	22.44	22.21	21.24	18.46
		1855 (18650)	22.47	22.25	21.24	18.42
	1RB-Middle (24)	1905 (19150)	22.51	22.25	21.38	18.54
		1880 (18900)	22.54	22.29	21.40	18.39
		1855 (18650)	22.41	22.36	21.36	18.40
	1RB-Low (0)	1905 (19150)	22.42	22.23	21.42	18.30
		1880 (18900)	22.48	22.36	21.43	18.34
		1855 (18650)	22.39	22.29	21.37	18.35
	25RB-High (25)	1905 (19150)	22.49	21.05	20.41	18.65
		1880 (18900)	22.52	21.12	20.31	18.31
		1855 (18650)	22.44	21.07	20.39	18.38
	25RB-Middle (12)	1905 (19150)	22.44	21.01	20.29	18.23
		1880 (18900)	22.48	21.00	20.39	18.70
		1855 (18650)	22.48	21.09	20.38	18.31
	25RB-Low (0)	1905 (19150)	22.47	21.07	20.23	18.55
		1880 (18900)	22.43	20.93	20.23	18.40
		1855 (18650)	22.39	21.05	20.23	18.62
	50RB (0)	1905 (19150)	22.46	21.06	20.33	18.24
		1880 (18900)	22.41	21.06	20.32	18.68
		1855 (18650)	22.47	21.04	20.39	18.35

15MHz	1RB-High (74)	1902.5 (19125)	22.20	22.02	21.13	18.35
		1880 (18900)	22.23	22.13	21.12	18.69
		1857.5 (18675)	22.36	22.23	21.24	18.60
	1RB-Middle (37)	1902.5 (19125)	22.21	22.12	21.47	18.30
		1880 (18900)	22.32	22.11	21.19	18.68
		1857.5 (18675)	22.29	21.97	21.47	18.41
	1RB-Low (0)	1902.5 (19125)	22.23	22.22	21.08	18.32
		1880 (18900)	22.26	22.02	21.11	18.30
		1857.5 (18675)	22.20	22.16	21.16	18.28
	36RB-High (38)	1902.5 (19125)	22.28	20.93	20.23	18.44
		1880 (18900)	22.36	20.96	20.14	18.59
		1857.5 (18675)	22.31	20.94	20.23	18.55
	36RB-Middle (19)	1902.5 (19125)	22.29	20.79	20.08	18.30
		1880 (18900)	22.23	20.87	20.13	18.29
		1857.5 (18675)	22.31	20.83	20.23	18.47
	36RB-Low (0)	1902.5 (19125)	22.24	20.80	20.09	18.27
		1880 (18900)	22.21	20.94	20.11	18.66
		1857.5 (18675)	22.21	20.80	20.13	18.47
	75RB (0)	1902.5 (19125)	22.26	20.80	20.15	18.66
		1880 (18900)	22.24	20.87	20.07	18.20
		1857.5 (18675)	22.34	20.90	20.23	18.52
20MHz	1RB-High (99)	1900 (19100)	22.13	22.14	21.28	18.36
		1880 (18900)	22.11	22.19	21.32	18.66
		1860 (18700)	22.13	22.20	21.46	18.63
	1RB-Middle (50)	1900 (19100)	22.20	22.20	21.36	18.61
		1880 (18900)	22.29	22.20	21.27	18.38
		1860 (18700)	22.18	22.39	21.52	18.38
	1RB-Low (0)	1900 (19100)	22.05	22.33	21.24	18.67
		1880 (18900)	22.09	22.42	21.34	18.40
		1860 (18700)	22.09	22.16	21.33	18.68
	50RB-High (50)	1900 (19100)	22.29	21.29	20.22	18.59
		1880 (18900)	22.28	21.25	20.23	18.52
		1860 (18700)	22.28	21.30	20.23	18.66
	50RB-Middle (25)	1900 (19100)	22.31	21.18	20.35	18.48
		1880 (18900)	22.34	21.14	20.18	18.22
		1860 (18700)	22.30	21.32	20.25	18.24
	50RB-Low (0)	1900 (19100)	22.18	21.24	20.13	18.36
		1880 (18900)	22.24	21.25	20.14	18.61
		1860 (18700)	22.21	21.25	20.17	18.50
	100RB (0)	1900 (19100)	22.30	21.33	20.34	18.65
		1880 (18900)	22.14	21.15	20.08	18.68
		1860 (18700)	22.29	21.31	20.25	18.42

LTE Band2 ANT1_D

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	19.31	19.60	19.19	18.23
		1880 (18900)	19.34	19.55	19.38	18.52
		1850.7 (18607)	19.36	19.45	19.37	18.26
	1RB-Middle (3)	1909.3 (19193)	19.35	19.54	19.26	18.39
		1880 (18900)	19.42	19.74	19.28	18.58
		1850.7 (18607)	19.37	19.56	19.37	18.50
	1RB-Low (0)	1909.3 (19193)	19.29	19.55	19.24	18.61
		1880 (18900)	19.36	19.65	19.41	18.52
		1850.7 (18607)	19.34	19.50	19.26	18.21
	3RB-High (3)	1909.3 (19193)	19.37	19.37	19.34	18.49
		1880 (18900)	19.39	19.32	19.34	18.42
		1850.7 (18607)	19.38	19.43	19.27	18.35
	3RB-Middle (1)	1909.3 (19193)	19.31	19.37	19.33	18.64
		1880 (18900)	19.45	19.39	19.35	18.32
		1850.7 (18607)	19.35	19.39	19.37	18.68
	3RB-Low (0)	1909.3 (19193)	19.29	19.23	19.37	18.66
		1880 (18900)	19.37	19.45	19.30	18.42
		1850.7 (18607)	19.34	19.46	19.25	18.64
	6RB (0)	1909.3 (19193)	19.33	19.18	19.17	18.29
		1880 (18900)	19.45	19.38	19.28	18.57
		1850.7 (18607)	19.33	19.33	19.29	18.22
3MHz	1RB-High (14)	1908.5 (19185)	19.29	19.50	19.30	18.64
		1880 (18900)	19.35	19.61	19.42	18.61
		1851.5 (18615)	19.31	19.55	19.27	18.29
	1RB-Middle (7)	1908.5 (19185)	19.42	19.67	19.28	18.57
		1880 (18900)	19.47	19.66	19.40	18.68
		1851.5 (18615)	19.36	19.63	19.37	18.54
	1RB-Low (0)	1908.5 (19185)	19.29	19.49	19.38	18.66
		1880 (18900)	19.30	19.48	19.34	18.34
		1851.5 (18615)	19.30	19.49	19.39	18.68
	8RB-High (7)	1908.5 (19185)	19.40	19.28	19.36	18.30
		1880 (18900)	19.41	19.40	19.34	18.62
		1851.5 (18615)	19.42	19.37	19.34	18.64
	8RB-Middle (4)	1908.5 (19185)	19.42	19.30	19.26	18.41
		1880 (18900)	19.49	19.45	19.35	18.55
		1851.5 (18615)	19.38	19.30	19.28	18.33
	8RB-Low (0)	1908.5 (19185)	19.33	19.21	19.14	18.30
		1880 (18900)	19.35	19.23	19.20	18.49
		1851.5 (18615)	19.41	19.32	19.27	18.27
	15RB (0)	1908.5 (19185)	19.33	19.24	19.15	18.62
		1880 (18900)	19.38	19.34	19.22	18.61
		1851.5 (18615)	19.37	19.30	19.28	18.40

5MHz	1RB-High (24)	1907.5 (19175)	19.39	19.50	19.47	18.22
		1880 (18900)	19.35	19.61	19.35	18.62
		1852.5 (18625)	19.31	19.60	19.40	18.27
	1RB-Middle (12)	1907.5 (19175)	19.51	19.46	19.52	18.63
		1880 (18900)	19.49	19.73	19.43	18.52
		1852.5 (18625)	19.39	19.58	19.46	18.55
	1RB-Low (0)	1907.5 (19175)	19.42	19.53	19.35	18.62
		1880 (18900)	19.34	19.63	19.33	18.22
		1852.5 (18625)	19.33	19.62	19.19	18.38
	12RB-High (13)	1907.5 (19175)	19.41	19.37	19.35	18.40
		1880 (18900)	19.47	19.29	19.28	18.56
		1852.5 (18625)	19.39	19.34	19.27	18.49
	12RB-Middle (6)	1907.5 (19175)	19.45	19.33	19.29	18.67
		1880 (18900)	19.42	19.40	19.29	18.44
		1852.5 (18625)	19.51	19.31	19.32	18.49
	12RB-Low (0)	1907.5 (19175)	19.38	19.37	19.22	18.40
		1880 (18900)	19.37	19.25	19.23	18.41
		1852.5 (18625)	19.37	19.36	19.29	18.29
	25RB (0)	1907.5 (19175)	19.42	19.27	19.26	18.35
		1880 (18900)	19.39	19.24	19.23	18.29
		1852.5 (18625)	19.39	19.31	19.26	18.39
10MHz	1RB-High (49)	1905 (19150)	19.30	19.43	19.37	18.21
		1880 (18900)	19.36	19.50	19.31	18.25
		1855 (18650)	19.40	19.60	19.37	18.49
	1RB-Middle (24)	1905 (19150)	19.35	19.55	19.44	18.66
		1880 (18900)	19.39	19.49	19.44	18.41
		1855 (18650)	19.35	19.54	19.52	18.62
	1RB-Low (0)	1905 (19150)	19.43	19.45	19.46	18.33
		1880 (18900)	19.38	19.60	19.31	18.20
		1855 (18650)	19.24	19.62	19.43	18.59
	25RB-High (25)	1905 (19150)	19.46	19.27	19.29	18.60
		1880 (18900)	19.43	19.35	19.36	18.65
		1855 (18650)	19.42	19.32	19.33	18.67
	25RB-Middle (12)	1905 (19150)	19.38	19.26	19.27	18.37
		1880 (18900)	19.36	19.36	19.32	18.35
		1855 (18650)	19.48	19.40	19.36	18.68
	25RB-Low (0)	1905 (19150)	19.43	19.23	19.15	18.40
		1880 (18900)	19.36	19.18	19.20	18.39
		1855 (18650)	19.29	19.18	19.30	18.67
	50RB (0)	1905 (19150)	19.34	19.23	19.29	18.54
		1880 (18900)	19.43	19.20	19.19	18.60
		1855 (18650)	19.45	19.36	19.32	18.69

15MHz	1RB-High (74)	1902.5 (19125)	19.18	19.37	19.05	18.22
		1880 (18900)	19.21	19.18	19.08	18.26
		1857.5 (18675)	19.25	19.42	19.05	18.27
	1RB-Middle (37)	1902.5 (19125)	19.24	19.32	19.27	18.24
		1880 (18900)	19.26	19.38	19.22	18.49
		1857.5 (18675)	19.12	19.43	19.06	18.36
	1RB-Low (0)	1902.5 (19125)	19.19	19.17	19.09	18.69
		1880 (18900)	19.21	19.41	19.09	18.55
		1857.5 (18675)	19.12	19.25	19.12	18.48
	36RB-High (38)	1902.5 (19125)	19.29	19.18	19.17	18.57
		1880 (18900)	19.27	19.10	19.17	18.25
		1857.5 (18675)	19.27	19.16	19.16	18.33
	36RB-Middle (19)	1902.5 (19125)	19.25	19.10	19.03	18.40
		1880 (18900)	19.26	19.10	19.11	18.66
		1857.5 (18675)	19.28	19.21	19.08	18.63
	36RB-Low (0)	1902.5 (19125)	19.17	19.01	19.06	18.28
		1880 (18900)	19.14	18.99	18.98	18.28
		1857.5 (18675)	19.20	19.02	19.08	18.34
	75RB (0)	1902.5 (19125)	19.19	19.06	19.09	18.34
		1880 (18900)	19.17	19.04	19.07	18.35
		1857.5 (18675)	19.24	19.11	19.11	18.38
20MHz	1RB-High (99)	1900 (19100)	19.21	19.32	19.34	18.69
		1880 (18900)	19.10	19.26	19.32	18.49
		1860 (18700)	19.19	19.25	19.50	18.22
	1RB-Middle (50)	1900 (19100)	19.16	19.25	19.24	18.68
		1880 (18900)	19.25	19.41	19.33	18.36
		1860 (18700)	19.22	19.33	19.33	18.56
	1RB-Low (0)	1900 (19100)	19.21	19.31	19.37	18.42
		1880 (18900)	19.10	19.32	19.34	18.39
		1860 (18700)	19.16	19.25	19.29	18.44
	50RB-High (50)	1900 (19100)	19.24	19.23	19.28	18.62
		1880 (18900)	19.25	19.30	19.26	18.22
		1860 (18700)	19.27	19.25	19.35	18.33
	50RB-Middle (25)	1900 (19100)	19.25	19.22	19.28	18.36
		1880 (18900)	19.35	19.26	19.20	18.62
		1860 (18700)	19.31	19.26	19.35	18.61
	50RB-Low (0)	1900 (19100)	19.19	19.23	19.13	18.48
		1880 (18900)	19.23	19.21	19.14	18.35
		1860 (18700)	19.23	19.21	19.27	18.32
	100RB (0)	1900 (19100)	19.28	19.34	19.21	18.35
		1880 (18900)	19.20	19.15	19.21	18.39
		1860 (18700)	19.30	19.23	19.34	18.62

LTE Band2 ANT5_E

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	23.59	22.41	21.10	18.46
		1880 (18900)	23.34	22.39	20.97	18.53
		1850.7 (18607)	23.34	22.27	21.17	18.35
	1RB-Middle (3)	1909.3 (19193)	23.40	22.48	21.06	18.63
		1880 (18900)	23.42	22.50	21.26	18.45
		1850.7 (18607)	23.39	22.40	21.09	18.41
	1RB-Low (0)	1909.3 (19193)	23.36	22.44	20.97	18.44
		1880 (18900)	23.36	22.31	20.98	18.70
		1850.7 (18607)	23.30	22.53	21.04	18.70
	3RB-High (3)	1909.3 (19193)	23.37	22.21	21.07	18.67
		1880 (18900)	23.40	22.36	21.11	18.37
		1850.7 (18607)	23.36	22.22	21.03	18.66
	3RB-Middle (1)	1909.3 (19193)	23.36	22.27	21.04	18.58
		1880 (18900)	23.46	22.15	21.06	18.41
		1850.7 (18607)	23.38	22.34	21.04	18.26
	3RB-Low (0)	1909.3 (19193)	23.35	22.33	21.10	18.62
		1880 (18900)	23.39	22.25	21.03	18.66
		1850.7 (18607)	23.39	22.21	21.12	18.24
	6RB (0)	1909.3 (19193)	22.45	21.32	20.03	18.64
		1880 (18900)	22.40	21.20	20.12	18.55
		1850.7 (18607)	22.41	21.18	20.08	18.53
3MHz	1RB-High (14)	1908.5 (19185)	23.32	22.65	21.06	18.59
		1880 (18900)	23.40	22.39	21.11	18.29
		1851.5 (18615)	23.37	22.38	21.07	18.33
	1RB-Middle (7)	1908.5 (19185)	23.67	22.47	21.27	18.64
		1880 (18900)	23.47	22.61	21.10	18.59
		1851.5 (18615)	23.40	22.51	21.08	18.61
	1RB-Low (0)	1908.5 (19185)	23.38	22.40	21.11	18.57
		1880 (18900)	23.39	22.47	21.05	18.44
		1851.5 (18615)	23.28	22.48	21.07	18.68
	8RB-High (7)	1908.5 (19185)	22.42	21.25	20.05	18.27
		1880 (18900)	22.45	21.30	20.12	18.55
		1851.5 (18615)	22.39	21.22	20.08	18.21
	8RB-Middle (4)	1908.5 (19185)	22.46	21.37	20.12	18.27
		1880 (18900)	22.44	21.27	20.14	18.66
		1851.5 (18615)	22.46	21.25	20.11	18.70
	8RB-Low (0)	1908.5 (19185)	22.36	21.06	20.04	18.24
		1880 (18900)	22.34	21.21	20.01	18.42
		1851.5 (18615)	22.42	21.17	20.11	18.38
	15RB (0)	1908.5 (19185)	22.48	21.20	20.02	18.62
		1880 (18900)	22.46	21.15	19.97	18.23
		1851.5 (18615)	22.44	21.19	20.05	18.45

5MHz	1RB-High (24)	1907.5 (19175)	23.38	22.65	21.27	18.31
		1880 (18900)	23.37	22.47	21.22	18.32
		1852.5 (18625)	23.37	22.41	21.10	18.39
	1RB-Middle (12)	1907.5 (19175)	23.44	22.62	21.20	18.28
		1880 (18900)	23.50	22.56	21.25	18.62
		1852.5 (18625)	23.37	22.37	21.12	18.70
	1RB-Low (0)	1907.5 (19175)	23.35	22.55	21.08	18.25
		1880 (18900)	23.32	22.73	21.07	18.68
		1852.5 (18625)	23.28	22.39	21.11	18.49
	12RB-High (13)	1907.5 (19175)	22.46	21.19	20.04	18.45
		1880 (18900)	22.39	21.22	20.15	18.26
		1852.5 (18625)	22.43	21.20	20.14	18.34
	12RB-Middle (6)	1907.5 (19175)	22.51	21.31	20.15	18.69
		1880 (18900)	22.45	21.20	20.07	18.59
		1852.5 (18625)	22.45	21.21	20.14	18.23
	12RB-Low (0)	1907.5 (19175)	22.39	21.07	20.05	18.58
		1880 (18900)	22.39	21.20	20.09	18.69
		1852.5 (18625)	22.43	21.23	20.12	18.50
	25RB (0)	1907.5 (19175)	22.53	21.26	20.10	18.29
		1880 (18900)	22.45	21.20	20.09	18.63
		1852.5 (18625)	22.43	21.20	20.09	18.41
10MHz	1RB-High (49)	1905 (19150)	23.40	22.25	21.24	18.24
		1880 (18900)	23.34	22.38	21.18	18.39
		1855 (18650)	23.34	22.52	21.08	18.64
	1RB-Middle (24)	1905 (19150)	23.41	22.41	21.25	18.29
		1880 (18900)	23.35	22.49	21.11	18.47
		1855 (18650)	23.42	22.39	21.14	18.70
	1RB-Low (0)	1905 (19150)	23.40	22.51	21.15	18.31
		1880 (18900)	23.40	22.51	21.07	18.60
		1855 (18650)	23.32	22.37	21.17	18.60
	25RB-High (25)	1905 (19150)	22.48	21.29	20.09	18.43
		1880 (18900)	22.44	21.26	20.18	18.41
		1855 (18650)	22.44	21.19	20.11	18.45
	25RB-Middle (12)	1905 (19150)	22.49	21.33	20.16	18.46
		1880 (18900)	22.42	21.26	20.07	18.68
		1855 (18650)	22.41	21.29	20.08	18.31
	25RB-Low (0)	1905 (19150)	22.32	21.13	20.03	18.67
		1880 (18900)	22.39	21.12	20.03	18.61
		1855 (18650)	22.38	21.07	19.97	18.58
	50RB (0)	1905 (19150)	22.49	21.27	20.12	18.28
		1880 (18900)	22.32	21.13	20.01	18.54
		1855 (18650)	22.39	21.18	20.09	18.61

15MHz	1RB-High (74)	1902.5 (19125)	23.25	22.18	21.24	18.37
		1880 (18900)	23.27	22.13	20.96	18.51
		1857.5 (18675)	23.27	22.14	20.93	18.38
	1RB-Middle (37)	1902.5 (19125)	23.32	22.30	21.30	18.28
		1880 (18900)	23.22	22.22	21.03	18.26
		1857.5 (18675)	23.27	22.37	20.97	18.23
	1RB-Low (0)	1902.5 (19125)	23.19	22.27	20.81	18.41
		1880 (18900)	23.16	22.34	21.05	18.22
		1857.5 (18675)	23.24	22.19	20.91	18.40
	36RB-High (38)	1902.5 (19125)	22.37	21.06	19.97	18.66
		1880 (18900)	22.33	21.13	20.00	18.64
		1857.5 (18675)	22.30	21.06	19.94	18.59
	36RB-Middle (19)	1902.5 (19125)	22.26	21.20	19.90	18.58
		1880 (18900)	22.29	21.23	19.91	18.62
		1857.5 (18675)	22.28	21.06	19.92	18.63
	36RB-Low (0)	1902.5 (19125)	22.31	21.09	19.95	18.64
		1880 (18900)	22.19	21.07	19.88	18.62
		1857.5 (18675)	22.14	21.15	19.90	18.58
	75RB (0)	1902.5 (19125)	22.22	21.23	19.94	18.23
		1880 (18900)	22.16	21.03	19.82	18.35
		1857.5 (18675)	22.27	21.03	19.91	18.21
20MHz	1RB-High (99)	1900 (19100)	23.17	22.27	20.94	18.28
		1880 (18900)	23.34	22.44	21.09	18.42
		1860 (18700)	23.29	22.39	21.05	18.38
	1RB-Middle (50)	1900 (19100)	23.33	22.43	21.08	18.41
		1880 (18900)	23.36	22.46	21.11	18.43
		1860 (18700)	23.29	22.39	21.05	18.38
	1RB-Low (0)	1900 (19100)	23.38	22.48	21.13	18.45
		1880 (18900)	23.33	22.43	21.08	18.41
		1860 (18700)	23.27	22.37	21.03	18.36
	50RB-High (50)	1900 (19100)	22.38	21.34	20.41	18.34
		1880 (18900)	22.47	21.42	20.49	18.42
		1860 (18700)	22.37	21.33	20.40	18.34
	50RB-Middle (25)	1900 (19100)	22.43	21.39	20.45	18.39
		1880 (18900)	22.45	21.41	20.47	18.40
		1860 (18700)	22.38	21.34	20.41	18.34
	50RB-Low (0)	1900 (19100)	22.41	21.37	20.43	18.37
		1880 (18900)	22.32	21.28	20.35	18.30
		1860 (18700)	22.35	21.31	20.38	18.32
	100RB (0)	1900 (19100)	22.43	21.32	20.45	18.39
		1880 (18900)	22.43	21.39	20.45	18.39
		1860 (18700)	22.35	21.31	20.38	18.32

LTE Band2 ANT5_C

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	19.05	18.80	18.35	18.54
		1880 (18900)	19.08	18.75	18.53	18.65
		1850.7 (18607)	19.10	18.66	18.52	18.82
	1RB-Middle (3)	1909.3 (19193)	19.09	18.74	18.41	18.74
		1880 (18900)	19.16	18.94	18.43	18.37
		1850.7 (18607)	19.11	18.76	18.52	18.83
	1RB-Low (0)	1909.3 (19193)	19.03	18.75	18.39	18.51
		1880 (18900)	19.10	18.85	18.56	18.41
		1850.7 (18607)	19.08	18.71	18.41	18.64
	3RB-High (3)	1909.3 (19193)	19.11	18.58	18.49	18.59
		1880 (18900)	19.13	18.53	18.49	18.37
		1850.7 (18607)	19.12	18.64	18.42	18.69
	3RB-Middle (1)	1909.3 (19193)	19.05	18.58	18.48	18.42
		1880 (18900)	19.19	18.60	18.50	18.60
		1850.7 (18607)	19.09	18.60	18.52	18.72
	3RB-Low (0)	1909.3 (19193)	19.03	18.45	18.52	18.36
		1880 (18900)	19.11	18.66	18.45	18.63
		1850.7 (18607)	19.08	18.67	18.40	18.80
	6RB (0)	1909.3 (19193)	19.07	18.40	18.33	18.58
		1880 (18900)	19.19	18.59	18.43	18.75
		1850.7 (18607)	19.07	18.54	18.44	18.58
3MHz	1RB-High (14)	1908.5 (19185)	19.03	18.71	18.45	18.49
		1880 (18900)	19.09	18.81	18.57	18.53
		1851.5 (18615)	19.05	18.75	18.42	18.50
	1RB-Middle (7)	1908.5 (19185)	19.16	18.87	18.43	18.84
		1880 (18900)	19.21	18.86	18.55	18.55
		1851.5 (18615)	19.10	18.83	18.52	18.50
	1RB-Low (0)	1908.5 (19185)	19.03	18.70	18.53	18.54
		1880 (18900)	19.04	18.69	18.49	18.40
		1851.5 (18615)	19.04	18.70	18.54	18.42
	8RB-High (7)	1908.5 (19185)	19.14	18.50	18.51	18.74
		1880 (18900)	19.15	18.61	18.49	18.59
		1851.5 (18615)	19.16	18.58	18.49	18.77
	8RB-Middle (4)	1908.5 (19185)	19.16	18.51	18.41	18.68
		1880 (18900)	19.23	18.66	18.50	18.79
		1851.5 (18615)	19.12	18.51	18.43	18.64
	8RB-Low (0)	1908.5 (19185)	19.07	18.43	18.30	18.54
		1880 (18900)	19.09	18.45	18.36	18.83
		1851.5 (18615)	19.15	18.53	18.42	18.70
	15RB (0)	1908.5 (19185)	19.07	18.46	18.31	18.62
		1880 (18900)	19.12	18.55	18.37	18.81
		1851.5 (18615)	19.11	18.51	18.43	18.62

5MHz	1RB-High (24)	1907.5 (19175)	19.13	18.71	18.61	18.85
		1880 (18900)	19.09	18.81	18.50	18.77
		1852.5 (18625)	19.05	18.80	18.55	18.60
	1RB-Middle (12)	1907.5 (19175)	19.25	18.67	18.66	18.43
		1880 (18900)	19.23	18.93	18.58	18.37
		1852.5 (18625)	19.13	18.78	18.60	18.72
	1RB-Low (0)	1907.5 (19175)	19.16	18.74	18.50	18.39
		1880 (18900)	19.08	18.83	18.48	18.48
		1852.5 (18625)	19.07	18.82	18.35	18.77
	12RB-High (13)	1907.5 (19175)	19.15	18.58	18.50	18.51
		1880 (18900)	19.21	18.50	18.43	18.72
		1852.5 (18625)	19.13	18.55	18.42	18.77
	12RB-Middle (6)	1907.5 (19175)	19.19	18.54	18.44	18.52
		1880 (18900)	19.16	18.61	18.44	18.63
		1852.5 (18625)	19.25	18.52	18.47	18.72
	12RB-Low (0)	1907.5 (19175)	19.12	18.58	18.37	18.60
		1880 (18900)	19.11	18.47	18.38	18.53
		1852.5 (18625)	19.11	18.57	18.44	18.72
	25RB (0)	1907.5 (19175)	19.16	18.49	18.41	18.60
		1880 (18900)	19.13	18.46	18.38	18.60
		1852.5 (18625)	19.13	18.52	18.41	18.73
10MHz	1RB-High (49)	1905 (19150)	19.04	18.64	18.52	18.55
		1880 (18900)	19.10	18.71	18.46	18.60
		1855 (18650)	19.14	18.80	18.52	18.59
	1RB-Middle (24)	1905 (19150)	19.09	18.75	18.59	18.58
		1880 (18900)	19.13	18.70	18.59	18.80
		1855 (18650)	19.09	18.74	18.66	18.44
	1RB-Low (0)	1905 (19150)	19.17	18.66	18.60	18.59
		1880 (18900)	19.12	18.80	18.46	18.77
		1855 (18650)	18.98	18.82	18.58	18.46
	25RB-High (25)	1905 (19150)	19.20	18.49	18.44	18.67
		1880 (18900)	19.17	18.56	18.51	18.77
		1855 (18650)	19.16	18.53	18.48	18.39
	25RB-Middle (12)	1905 (19150)	19.12	18.48	18.42	18.65
		1880 (18900)	19.10	18.57	18.47	18.63
		1855 (18650)	19.22	18.61	18.51	18.46
	25RB-Low (0)	1905 (19150)	19.17	18.45	18.31	18.83
		1880 (18900)	19.10	18.40	18.36	18.70
		1855 (18650)	19.03	18.40	18.45	18.75
	50RB (0)	1905 (19150)	19.08	18.45	18.44	18.52
		1880 (18900)	19.17	18.42	18.35	18.60
		1855 (18650)	19.19	18.57	18.47	18.63

15MHz	1RB-High (74)	1902.5 (19125)	18.92	18.58	18.21	18.56
		1880 (18900)	18.95	18.40	18.24	18.72
		1857.5 (18675)	18.99	18.63	18.21	18.57
	1RB-Middle (37)	1902.5 (19125)	18.98	18.53	18.42	18.82
		1880 (18900)	19.00	18.59	18.37	18.51
		1857.5 (18675)	18.86	18.64	18.22	18.64
	1RB-Low (0)	1902.5 (19125)	18.93	18.39	18.25	18.75
		1880 (18900)	18.95	18.62	18.25	18.77
		1857.5 (18675)	18.86	18.47	18.28	18.61
	36RB-High (38)	1902.5 (19125)	19.03	18.40	18.33	18.72
		1880 (18900)	19.01	18.32	18.33	18.69
		1857.5 (18675)	19.01	18.38	18.32	18.57
	36RB-Middle (19)	1902.5 (19125)	18.99	18.32	18.19	18.55
		1880 (18900)	19.00	18.32	18.27	18.55
		1857.5 (18675)	19.02	18.43	18.24	18.67
	36RB-Low (0)	1902.5 (19125)	18.91	18.24	18.22	18.45
		1880 (18900)	18.88	18.22	18.14	18.85
		1857.5 (18675)	18.94	18.25	18.24	18.66
	75RB (0)	1902.5 (19125)	18.93	18.28	18.25	18.38
		1880 (18900)	18.91	18.26	18.23	18.37
		1857.5 (18675)	18.98	18.33	18.27	18.85
20MHz	1RB-High (99)	1900 (19100)	18.70	18.47	18.33	18.30
		1880 (18900)	18.83	18.60	18.46	18.43
		1860 (18700)	18.80	18.57	18.43	18.40
	1RB-Middle (50)	1900 (19100)	18.83	18.60	18.46	18.43
		1880 (18900)	18.99	18.62	18.48	18.45
		1860 (18700)	18.80	18.57	18.43	18.40
	1RB-Low (0)	1900 (19100)	18.87	18.64	18.50	18.47
		1880 (18900)	18.83	18.60	18.46	18.43
		1860 (18700)	18.78	18.55	18.41	18.38
	50RB-High (50)	1900 (19100)	18.94	18.71	18.57	18.54
		1880 (18900)	19.02	18.79	18.65	18.62
		1860 (18700)	18.93	18.70	18.56	18.53
	50RB-Middle (25)	1900 (19100)	18.98	18.75	18.61	18.58
		1880 (18900)	19.03	18.77	18.63	18.60
		1860 (18700)	18.94	18.71	18.57	18.54
	50RB-Low (0)	1900 (19100)	18.97	18.74	18.60	18.57
		1880 (18900)	18.89	18.66	18.52	18.49
		1860 (18700)	18.92	18.69	18.55	18.52
	100RB (0)	1900 (19100)	18.98	18.75	18.61	18.58
		1880 (18900)	18.98	18.75	18.61	18.58
		1860 (18700)	18.92	18.69	18.55	18.52

LTE Band2 ANT5_D

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	20.86	21.02	20.50	18.54
		1880 (18900)	20.89	20.97	20.70	18.57
		1850.7 (18607)	20.91	20.86	20.69	18.42
	1RB-Middle (3)	1909.3 (19193)	20.90	20.96	20.58	18.28
		1880 (18900)	20.98	21.17	20.60	18.23
		1850.7 (18607)	20.92	20.98	20.69	18.47
	1RB-Low (0)	1909.3 (19193)	20.83	20.97	20.55	18.38
		1880 (18900)	20.91	21.08	20.74	18.14
		1850.7 (18607)	20.89	20.92	20.58	18.40
	3RB-High (3)	1909.3 (19193)	20.92	20.78	20.66	18.20
		1880 (18900)	20.94	20.72	20.66	18.12
		1850.7 (18607)	20.93	20.84	20.59	18.32
	3RB-Middle (1)	1909.3 (19193)	20.86	20.78	20.65	18.29
		1880 (18900)	21.01	20.80	20.67	18.17
		1850.7 (18607)	20.90	20.80	20.69	18.29
	3RB-Low (0)	1909.3 (19193)	20.83	20.63	20.69	18.51
		1880 (18900)	20.92	20.86	20.62	18.58
		1850.7 (18607)	20.89	20.87	20.56	18.42
	6RB (0)	1909.3 (19193)	20.88	20.57	20.48	18.57
		1880 (18900)	21.01	20.79	20.60	18.27
		1850.7 (18607)	20.88	20.73	20.61	18.33
3MHz	1RB-High (14)	1908.5 (19185)	20.83	20.92	20.62	18.21
		1880 (18900)	20.90	21.03	20.75	18.51
		1851.5 (18615)	20.86	20.97	20.59	18.40
	1RB-Middle (7)	1908.5 (19185)	20.98	21.10	20.60	18.35
		1880 (18900)	21.03	21.09	20.72	18.29
		1851.5 (18615)	20.91	21.06	20.69	18.15
	1RB-Low (0)	1908.5 (19185)	20.83	20.91	20.70	18.33
		1880 (18900)	20.84	20.90	20.66	18.41
		1851.5 (18615)	20.84	20.91	20.71	18.21
	8RB-High (7)	1908.5 (19185)	20.95	20.68	20.68	18.49
		1880 (18900)	20.96	20.81	20.66	18.36
		1851.5 (18615)	20.98	20.78	20.66	18.26
	8RB-Middle (4)	1908.5 (19185)	20.98	20.70	20.58	18.28
		1880 (18900)	21.05	20.86	20.67	18.50
		1851.5 (18615)	20.93	20.70	20.60	18.16
	8RB-Low (0)	1908.5 (19185)	20.88	20.61	20.45	18.15
		1880 (18900)	20.90	20.63	20.51	18.51
		1851.5 (18615)	20.96	20.72	20.59	18.17
	15RB (0)	1908.5 (19185)	20.88	20.64	20.46	18.27
		1880 (18900)	20.93	20.74	20.53	18.51
		1851.5 (18615)	20.92	20.70	20.60	18.24

5MHz	1RB-High (24)	1907.5 (19175)	20.94	20.92	20.80	18.28
		1880 (18900)	20.90	21.03	20.67	18.27
		1852.5 (18625)	20.86	21.02	20.72	18.12
	1RB-Middle (12)	1907.5 (19175)	21.07	20.87	20.85	18.39
		1880 (18900)	21.05	21.16	20.76	18.57
		1852.5 (18625)	20.94	21.00	20.79	18.50
	1RB-Low (0)	1907.5 (19175)	20.98	20.95	20.67	18.41
		1880 (18900)	20.89	21.06	20.65	18.55
		1852.5 (18625)	20.88	21.05	20.50	18.26
	12RB-High (13)	1907.5 (19175)	20.96	20.78	20.67	18.32
		1880 (18900)	21.03	20.69	20.60	18.60
		1852.5 (18625)	20.94	20.74	20.59	18.15
	12RB-Middle (6)	1907.5 (19175)	21.01	20.73	20.61	18.32
		1880 (18900)	20.98	20.81	20.61	18.40
		1852.5 (18625)	21.07	20.71	20.64	18.11
	12RB-Low (0)	1907.5 (19175)	20.93	20.78	20.53	18.22
		1880 (18900)	20.92	20.65	20.54	18.33
		1852.5 (18625)	20.92	20.77	20.61	18.18
	25RB (0)	1907.5 (19175)	20.98	20.67	20.58	18.48
		1880 (18900)	20.94	20.64	20.54	18.58
		1852.5 (18625)	20.94	20.71	20.58	18.48
10MHz	1RB-High (49)	1905 (19150)	20.84	20.84	20.69	18.26
		1880 (18900)	20.91	20.92	20.63	18.33
		1855 (18650)	20.95	21.02	20.69	18.49
	1RB-Middle (24)	1905 (19150)	20.90	20.97	20.77	18.57
		1880 (18900)	20.94	20.91	20.77	18.15
		1855 (18650)	20.90	20.96	20.85	18.41
	1RB-Low (0)	1905 (19150)	20.99	20.86	20.79	18.43
		1880 (18900)	20.93	21.02	20.63	18.34
		1855 (18650)	20.78	21.05	20.76	18.51
	25RB-High (25)	1905 (19150)	21.02	20.67	20.61	18.40
		1880 (18900)	20.99	20.76	20.68	18.41
		1855 (18650)	20.98	20.72	20.65	18.23
	25RB-Middle (12)	1905 (19150)	20.93	20.66	20.59	18.26
		1880 (18900)	20.91	20.77	20.64	18.42
		1855 (18650)	21.04	20.81	20.68	18.32
	25RB-Low (0)	1905 (19150)	20.99	20.63	20.46	18.53
		1880 (18900)	20.91	20.57	20.51	18.33
		1855 (18650)	20.83	20.57	20.62	18.12
	50RB (0)	1905 (19150)	20.89	20.63	20.61	18.50
		1880 (18900)	20.99	20.59	20.50	18.35
		1855 (18650)	21.01	20.77	20.64	18.38

15MHz	1RB-High (74)	1902.5 (19125)	20.71	20.78	20.35	18.52
		1880 (18900)	20.75	20.57	20.38	18.33
		1857.5 (18675)	20.79	20.83	20.35	18.33
	1RB-Middle (37)	1902.5 (19125)	20.78	20.72	20.59	18.42
		1880 (18900)	20.80	20.79	20.53	18.39
		1857.5 (18675)	20.65	20.84	20.36	18.34
	1RB-Low (0)	1902.5 (19125)	20.72	20.56	20.39	18.49
		1880 (18900)	20.75	20.82	20.39	18.46
		1857.5 (18675)	20.65	20.65	20.43	18.54
	36RB-High (38)	1902.5 (19125)	20.83	20.57	20.48	18.20
		1880 (18900)	20.81	20.49	20.48	18.50
		1857.5 (18675)	20.81	20.55	20.47	18.57
	36RB-Middle (19)	1902.5 (19125)	20.79	20.49	20.33	18.58
		1880 (18900)	20.80	20.49	20.41	18.15
		1857.5 (18675)	20.82	20.61	20.38	18.18
	36RB-Low (0)	1902.5 (19125)	20.70	20.39	20.36	18.49
		1880 (18900)	20.67	20.37	20.28	18.42
		1857.5 (18675)	20.74	20.40	20.38	18.42
	75RB (0)	1902.5 (19125)	20.72	20.44	20.39	18.17
		1880 (18900)	20.70	20.42	20.37	18.57
		1857.5 (18675)	20.78	20.50	20.41	18.20
20MHz	1RB-High (99)	1900 (19100)	20.62	20.65	20.48	18.28
		1880 (18900)	20.77	20.80	20.63	18.41
		1860 (18700)	20.73	20.76	20.59	18.38
	1RB-Middle (50)	1900 (19100)	20.76	20.79	20.62	18.40
		1880 (18900)	20.79	20.82	20.65	18.43
		1860 (18700)	20.73	20.76	20.59	18.38
	1RB-Low (0)	1900 (19100)	20.71	20.84	20.67	18.45
		1880 (18900)	20.76	20.79	20.62	18.40
		1860 (18700)	20.71	20.74	20.57	18.36
	50RB-High (50)	1900 (19100)	20.89	20.82	20.32	18.52
		1880 (18900)	20.93	20.90	20.40	18.59
		1860 (18700)	20.88	20.81	20.31	18.51
	50RB-Middle (25)	1900 (19100)	20.93	20.86	20.36	18.56
		1880 (18900)	20.95	20.88	20.38	18.57
		1860 (18700)	20.89	20.82	20.32	18.52
	50RB-Low (0)	1900 (19100)	20.92	20.85	20.35	18.55
		1880 (18900)	20.83	20.76	20.26	18.47
		1860 (18700)	20.86	20.79	20.29	18.49
	100RB (0)	1900 (19100)	20.93	20.86	20.36	18.56
		1880 (18900)	20.93	20.86	20.36	18.56
		1860 (18700)	20.86	20.79	20.29	18.49

LTE Band7 ANT5_E

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	23.30	22.71	21.60	18.34
		2535 (21100)	23.28	22.48	21.38	18.21
		2502.5 (20775)	23.24	22.56	21.53	18.24
	1RB-Middle (12)	2567.5 (21425)	23.49	22.72	21.50	18.23
		2535 (21100)	23.26	22.61	21.55	18.38
		2502.5 (20775)	23.23	22.67	21.47	18.42
	1RB-Low (0)	2567.5 (21425)	23.33	22.68	21.46	18.38
		2535 (21100)	23.26	22.54	21.52	18.42
		2502.5 (20775)	23.24	22.48	21.39	18.48
	12RB-High (13)	2567.5 (21425)	22.49	21.45	20.53	18.40
		2535 (21100)	22.37	21.37	20.41	18.31
		2502.5 (20775)	22.25	21.32	20.40	18.43
	12RB-Middle (6)	2567.5 (21425)	22.45	21.56	20.43	18.21
		2535 (21100)	22.31	21.30	20.42	18.23
		2502.5 (20775)	22.30	21.29	20.44	18.39
	12RB-Low (0)	2567.5 (21425)	22.27	21.42	20.53	18.31
		2535 (21100)	22.20	21.33	20.36	18.23
		2502.5 (20775)	22.29	21.33	20.31	18.40
	25RB (0)	2567.5 (21425)	22.41	21.46	20.48	18.27
		2535 (21100)	22.29	21.30	20.42	18.20
		2502.5 (20775)	22.29	21.28	20.41	18.45
10MHz	1RB-High (49)	2565 (21400)	23.52	22.79	21.51	18.24
		2535 (21100)	23.27	22.53	21.29	18.46
		2505 (20800)	23.21	22.31	21.52	18.36
	1RB-Middle (24)	2565 (21400)	23.53	22.73	21.53	18.46
		2535 (21100)	23.29	22.72	21.44	18.31
		2505 (20800)	23.35	22.50	21.46	18.37
	1RB-Low (0)	2565 (21400)	23.45	22.52	21.59	18.48
		2535 (21100)	23.33	22.60	21.55	18.30
		2505 (20800)	23.22	22.47	21.47	18.31
	25RB-High (25)	2565 (21400)	22.53	21.49	20.53	18.35
		2535 (21100)	22.39	21.29	20.42	18.30
		2505 (20800)	22.33	21.25	20.38	18.35
	25RB-Middle (12)	2565 (21400)	22.43	21.35	20.43	18.20
		2535 (21100)	22.38	21.39	20.50	18.41
		2505 (20800)	22.36	21.39	20.50	18.50
	25RB-Low (0)	2565 (21400)	22.35	21.44	20.53	18.48
		2535 (21100)	22.29	21.23	20.33	18.44
		2505 (20800)	22.24	21.21	20.40	18.37
	50RB (0)	2565 (21400)	22.43	21.45	20.44	18.22
		2535 (21100)	22.39	21.32	20.43	18.39
		2505 (20800)	22.34	21.29	20.41	18.31

15MHz	1RB-High (74)	2562.5 (21375)	23.11	22.55	21.24	18.39
		2535 (21100)	23.15	22.38	21.36	18.31
		2507.5 (20825)	23.18	22.25	21.27	18.20
	1RB-Middle (37)	2562.5 (21375)	23.27	22.32	21.36	18.29
		2535 (21100)	23.11	22.49	21.11	18.35
		2507.5 (20825)	23.17	22.43	21.17	18.46
	1RB-Low (0)	2562.5 (21375)	23.17	22.50	21.23	18.44
		2535 (21100)	23.10	22.46	21.33	18.31
		2507.5 (20825)	23.19	22.49	21.33	18.44
	36RB-High (38)	2562.5 (21375)	22.30	21.23	20.34	18.44
		2535 (21100)	22.12	21.23	20.24	18.28
		2507.5 (20825)	22.18	21.10	20.16	18.32
	36RB-Middle (19)	2562.5 (21375)	22.31	21.27	20.33	18.24
		2535 (21100)	22.22	21.20	20.26	18.47
		2507.5 (20825)	22.17	21.18	20.29	18.42
	36RB-Low (0)	2562.5 (21375)	22.21	21.15	20.20	18.47
		2535 (21100)	22.13	21.05	20.14	18.34
		2507.5 (20825)	22.17	21.08	20.22	18.46
	75RB (0)	2562.5 (21375)	22.33	21.32	20.34	18.47
		2535 (21100)	22.13	21.21	20.23	18.30
		2507.5 (20825)	22.15	21.16	20.15	18.50
20MHz	1RB-High (99)	2560 (21350)	23.21	22.59	21.46	18.39
		2535 (21100)	23.10	22.35	21.20	18.24
		2510 (20850)	23.03	22.56	21.32	18.41
	1RB-Middle (50)	2560 (21350)	23.22	22.54	21.46	18.21
		2535 (21100)	23.25	22.56	21.29	18.23
		2510 (20850)	23.18	22.33	21.32	18.28
	1RB-Low (0)	2560 (21350)	23.25	22.48	21.42	18.26
		2535 (21100)	23.07	22.50	21.26	18.25
		2510 (20850)	22.95	22.15	21.26	18.47
	50RB-High (50)	2560 (21350)	22.29	21.28	20.38	18.20
		2535 (21100)	22.12	21.22	20.20	18.35
		2510 (20850)	22.05	21.00	20.23	18.35
	50RB-Middle (25)	2560 (21350)	22.21	21.14	20.33	18.40
		2535 (21100)	22.24	21.24	20.29	18.30
		2510 (20850)	22.14	21.22	20.21	18.41
	50RB-Low (0)	2560 (21350)	22.23	21.28	20.35	18.33
		2535 (21100)	22.16	21.12	20.19	18.45
		2510 (20850)	22.11	21.10	20.13	18.29
	100RB (0)	2560 (21350)	22.31	21.16	20.33	18.33
		2535 (21100)	22.20	21.21	20.28	18.25
		2510 (20850)	22.18	21.15	20.28	18.35

LTE Band7 ANT5_A/C

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	16.95	17.08	17.04	17.10
		2535 (21100)	16.82	17.10	16.81	17.08
		2502.5 (20775)	16.95	17.02	17.14	16.89
	1RB-Middle (12)	2567.5 (21425)	16.95	17.16	17.14	16.98
		2535 (21100)	16.83	17.13	17.04	16.83
		2502.5 (20775)	17.02	17.08	16.97	16.91
	1RB-Low (0)	2567.5 (21425)	16.89	17.17	16.90	16.81
		2535 (21100)	16.79	17.12	17.02	16.82
		2502.5 (20775)	16.97	17.30	17.12	16.94
	12RB-High (13)	2567.5 (21425)	16.95	16.95	16.89	16.88
		2535 (21100)	16.79	16.88	16.84	16.99
		2502.5 (20775)	16.99	17.05	17.03	17.02
	12RB-Middle (6)	2567.5 (21425)	16.92	16.93	16.88	17.10
		2535 (21100)	16.94	16.94	16.93	17.06
		2502.5 (20775)	17.03	17.11	17.01	16.96
	12RB-Low (0)	2567.5 (21425)	16.84	16.88	16.89	17.03
		2535 (21100)	16.84	16.84	16.83	16.81
		2502.5 (20775)	17.04	17.00	16.99	16.82
	25RB (0)	2567.5 (21425)	16.81	16.85	16.87	16.92
		2535 (21100)	16.80	16.79	16.89	16.98
		2502.5 (20775)	17.01	17.05	16.94	16.80
10MHz	1RB-High (49)	2565 (21400)	16.99	17.06	16.93	16.80
		2535 (21100)	16.77	17.15	16.95	16.91
		2505 (20800)	16.90	17.11	16.94	17.03
	1RB-Middle (24)	2565 (21400)	16.89	17.04	17.00	16.81
		2535 (21100)	16.82	17.10	16.76	17.08
		2505 (20800)	17.04	17.11	17.14	17.10
	1RB-Low (0)	2565 (21400)	16.84	17.16	16.89	17.07
		2535 (21100)	16.80	17.06	16.83	16.98
		2505 (20800)	16.97	17.19	17.05	16.87
	25RB-High (25)	2565 (21400)	16.96	16.96	17.01	16.99
		2535 (21100)	16.82	16.87	16.84	16.88
		2505 (20800)	16.98	16.97	16.96	16.97
	25RB-Middle (12)	2565 (21400)	16.98	17.01	16.91	16.80
		2535 (21100)	16.83	16.93	16.93	16.96
		2505 (20800)	17.05	17.02	17.03	16.82
	25RB-Low (0)	2565 (21400)	16.86	16.92	16.90	16.98
		2535 (21100)	16.89	16.88	16.90	17.07
		2505 (20800)	17.07	17.05	17.03	17.10
	50RB (0)	2565 (21400)	16.93	16.89	16.90	17.06
		2535 (21100)	16.83	16.82	16.85	17.10
		2505 (20800)	16.99	16.99	16.99	17.09

15MHz	1RB-High (74)	2562.5 (21375)	16.64	17.05	16.76	17.01
		2535 (21100)	16.40	16.81	16.75	16.85
		2507.5 (20825)	16.67	17.01	16.83	16.91
	1RB-Middle (37)	2562.5 (21375)	16.58	16.80	16.80	17.05
		2535 (21100)	16.59	16.99	16.65	17.09
		2507.5 (20825)	16.74	17.09	16.87	17.06
	1RB-Low (0)	2562.5 (21375)	16.63	16.86	16.79	16.97
		2535 (21100)	16.68	16.86	16.73	16.98
		2507.5 (20825)	16.75	17.04	16.93	16.89
	36RB-High (38)	2562.5 (21375)	16.74	16.80	16.79	17.03
		2535 (21100)	16.62	16.67	16.67	16.96
		2507.5 (20825)	16.76	16.80	16.79	16.81
	36RB-Middle (19)	2562.5 (21375)	16.65	16.74	16.72	17.01
		2535 (21100)	16.70	16.77	16.68	16.87
		2507.5 (20825)	16.79	16.83	16.83	17.03
	36RB-Low (0)	2562.5 (21375)	16.66	16.66	16.62	16.94
		2535 (21100)	16.69	16.68	16.68	16.99
		2507.5 (20825)	16.83	16.88	16.88	16.87
	75RB (0)	2562.5 (21375)	16.75	16.74	16.64	16.94
		2535 (21100)	16.72	16.71	16.70	16.81
		2507.5 (20825)	16.82	16.89	16.88	16.89
20MHz	1RB-High (99)	2560 (21350)	16.75	16.99	16.80	16.86
		2535 (21100)	16.55	16.80	16.51	17.06
		2510 (20850)	16.65	16.86	16.62	16.93
	1RB-Middle (50)	2560 (21350)	16.77	16.87	16.90	16.88
		2535 (21100)	16.82	16.88	16.67	16.81
		2510 (20850)	16.75	17.05	16.94	16.86
	1RB-Low (0)	2560 (21350)	16.73	16.78	16.76	17.00
		2535 (21100)	16.63	16.89	16.79	16.95
		2510 (20850)	16.74	16.89	16.76	17.06
	50RB-High (50)	2560 (21350)	16.78	16.72	16.77	16.97
		2535 (21100)	16.72	16.62	16.70	17.09
		2510 (20850)	16.81	16.70	16.75	16.88
	50RB-Middle (25)	2560 (21350)	16.79	16.63	16.58	16.91
		2535 (21100)	16.83	16.69	16.69	16.99
		2510 (20850)	16.82	16.84	16.79	16.99
	50RB-Low (0)	2560 (21350)	16.72	16.69	16.64	16.82
		2535 (21100)	16.65	16.74	16.66	16.86
		2510 (20850)	16.81	16.76	16.84	16.84
	100RB (0)	2560 (21350)	16.69	16.72	16.65	17.03
		2535 (21100)	16.70	16.66	16.74	16.82
		2510 (20850)	16.82	16.82	16.78	16.88

LTE Band7 ANT5_B

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	18.08	18.32	17.93	18.40
		2535 (21100)	17.87	18.09	17.82	18.41
		2502.5 (20775)	18.05	18.39	18.21	18.66
	1RB-Middle (12)	2567.5 (21425)	17.93	18.17	18.10	18.50
		2535 (21100)	17.94	18.11	18.00	18.48
		2502.5 (20775)	18.05	18.52	18.18	18.55
	1RB-Low (0)	2567.5 (21425)	17.94	18.25	17.94	18.66
		2535 (21100)	17.86	18.15	17.97	18.30
		2502.5 (20775)	18.05	18.34	18.02	18.67
	12RB-High (13)	2567.5 (21425)	17.96	18.01	18.02	18.56
		2535 (21100)	17.89	17.87	17.86	18.45
		2502.5 (20775)	18.11	18.11	18.03	18.38
	12RB-Middle (6)	2567.5 (21425)	17.93	17.94	17.99	18.59
		2535 (21100)	17.95	17.91	17.93	18.39
		2502.5 (20775)	18.14	18.14	18.04	18.48
	12RB-Low (0)	2567.5 (21425)	17.87	17.90	17.90	18.40
		2535 (21100)	17.93	17.89	17.89	18.47
		2502.5 (20775)	18.03	18.04	18.03	18.65
	25RB (0)	2567.5 (21425)	17.89	17.86	17.85	18.64
		2535 (21100)	17.91	17.89	17.88	18.69
		2502.5 (20775)	18.11	18.12	18.13	18.38
10MHz	1RB-High (49)	2565 (21400)	17.96	18.22	18.19	18.41
		2535 (21100)	17.87	18.08	18.13	18.57
		2505 (20800)	17.96	18.27	18.03	18.30
	1RB-Middle (24)	2565 (21400)	18.01	18.21	18.12	18.34
		2535 (21100)	17.94	18.13	18.11	18.36
		2505 (20800)	18.02	18.49	18.26	18.69
	1RB-Low (0)	2565 (21400)	17.94	18.01	17.90	18.53
		2535 (21100)	17.92	18.11	18.02	18.46
		2505 (20800)	18.03	18.17	18.20	18.66
	25RB-High (25)	2565 (21400)	18.06	18.01	18.01	18.60
		2535 (21100)	17.88	17.96	17.97	18.49
		2505 (20800)	18.07	18.08	18.03	18.53
	25RB-Middle (12)	2565 (21400)	18.08	18.05	18.03	18.49
		2535 (21100)	17.97	17.97	17.95	18.56
		2505 (20800)	18.13	18.11	18.14	18.49
	25RB-Low (0)	2565 (21400)	17.98	17.96	17.95	18.51
		2535 (21100)	17.92	17.89	17.97	18.42
		2505 (20800)	18.13	18.12	18.14	18.37
	50RB (0)	2565 (21400)	17.94	17.96	17.93	18.32
		2535 (21100)	17.89	17.96	17.88	18.63
		2505 (20800)	18.09	18.08	18.04	18.47

15MHz	1RB-High (74)	2562.5 (21375)	17.83	18.09	17.81	18.33
		2535 (21100)	17.63	17.99	17.84	18.64
		2507.5 (20825)	17.71	18.20	17.88	18.50
	1RB-Middle (37)	2562.5 (21375)	17.71	18.03	17.75	18.62
		2535 (21100)	17.72	17.89	17.80	18.49
		2507.5 (20825)	17.77	18.18	17.99	18.67
	1RB-Low (0)	2562.5 (21375)	17.70	18.07	17.76	18.61
		2535 (21100)	17.74	18.05	17.82	18.35
		2507.5 (20825)	17.89	18.05	17.85	18.64
	36RB-High (38)	2562.5 (21375)	17.87	17.82	17.78	18.49
		2535 (21100)	17.70	17.73	17.74	18.69
		2507.5 (20825)	17.86	17.86	17.87	18.63
	36RB-Middle (19)	2562.5 (21375)	17.74	17.77	17.77	18.57
		2535 (21100)	17.76	17.81	17.79	18.33
		2507.5 (20825)	17.88	17.88	17.96	18.63
	36RB-Low (0)	2562.5 (21375)	17.74	17.76	17.75	18.51
		2535 (21100)	17.73	17.77	17.76	18.59
		2507.5 (20825)	17.90	17.97	17.96	18.63
	75RB (0)	2562.5 (21375)	17.75	17.72	17.76	18.63
		2535 (21100)	17.77	17.81	17.84	18.30
		2507.5 (20825)	17.94	17.91	17.88	18.36
20MHz	1RB-High (99)	2560 (21350)	17.73	17.87	17.89	18.43
		2535 (21100)	17.71	17.84	17.73	18.54
		2510 (20850)	17.65	17.78	17.83	18.38
	1RB-Middle (50)	2560 (21350)	17.81	17.90	17.76	18.31
		2535 (21100)	17.84	17.82	17.90	18.48
		2510 (20850)	17.81	17.95	18.03	18.42
	1RB-Low (0)	2560 (21350)	17.61	17.79	17.90	18.53
		2535 (21100)	17.67	17.79	17.61	18.69
		2510 (20850)	17.72	17.95	18.03	18.63
	50RB-High (50)	2560 (21350)	17.84	17.85	17.90	18.53
		2535 (21100)	17.80	17.79	17.74	18.32
		2510 (20850)	17.83	17.84	17.91	18.38
	50RB-Middle (25)	2560 (21350)	17.74	17.73	17.72	18.31
		2535 (21100)	17.93	17.82	17.74	18.44
		2510 (20850)	17.89	17.80	17.92	18.33
	50RB-Low (0)	2560 (21350)	17.80	17.72	17.74	18.52
		2535 (21100)	17.79	17.73	17.74	18.61
		2510 (20850)	17.88	17.87	17.91	18.52
	100RB (0)	2560 (21350)	17.75	17.76	17.83	18.44
		2535 (21100)	17.81	17.66	17.80	18.42
		2510 (20850)	17.92	17.93	17.90	18.52

LTE Band7 ANT5_D

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	16.01	15.70	15.91	15.68
		2535 (21100)	15.81	15.78	15.80	15.69
		2502.5 (20775)	15.82	15.64	15.76	15.90
	1RB-Middle (12)	2567.5 (21425)	15.79	15.65	15.80	15.77
		2535 (21100)	15.84	15.79	15.72	15.75
		2502.5 (20775)	15.79	15.66	15.95	15.81
	1RB-Low (0)	2567.5 (21425)	15.94	15.85	15.82	15.90
		2535 (21100)	16.02	15.75	15.79	15.60
		2502.5 (20775)	15.81	15.68	15.79	15.91
	12RB-High (13)	2567.5 (21425)	15.78	15.66	15.75	15.82
		2535 (21100)	15.87	15.79	15.89	15.72
		2502.5 (20775)	15.90	15.87	15.91	15.66
	12RB-Middle (6)	2567.5 (21425)	15.88	15.65	15.75	15.84
		2535 (21100)	15.97	15.65	15.75	15.67
		2502.5 (20775)	15.80	15.86	15.84	15.75
	12RB-Low (0)	2567.5 (21425)	15.86	15.68	15.85	15.68
		2535 (21100)	15.81	15.84	15.95	15.74
		2502.5 (20775)	15.96	15.85	15.87	15.89
	25RB (0)	2567.5 (21425)	15.86	15.66	15.88	15.89
		2535 (21100)	15.92	15.71	15.88	15.93
		2502.5 (20775)	15.81	15.75	15.84	15.66
10MHz	1RB-High (49)	2565 (21400)	16.00	15.80	15.81	15.69
		2535 (21100)	15.85	15.68	15.88	15.83
		2505 (20800)	15.87	15.70	15.92	15.60
	1RB-Middle (24)	2565 (21400)	15.86	15.88	15.81	15.63
		2535 (21100)	15.81	15.70	15.75	15.65
		2505 (20800)	15.90	15.73	15.80	15.93
	1RB-Low (0)	2565 (21400)	16.00	15.74	15.74	15.79
		2535 (21100)	15.83	15.76	15.81	15.73
		2505 (20800)	15.81	15.78	15.91	15.90
	25RB-High (25)	2565 (21400)	15.92	15.85	15.83	15.85
		2535 (21100)	15.85	15.81	15.83	15.76
		2505 (20800)	15.94	15.73	15.72	15.79
	25RB-Middle (12)	2565 (21400)	15.92	15.73	15.81	15.76
		2535 (21100)	15.87	15.69	15.93	15.82
		2505 (20800)	15.81	15.65	15.75	15.76
	25RB-Low (0)	2565 (21400)	15.81	15.69	15.74	15.78
		2535 (21100)	15.80	15.88	15.91	15.70
		2505 (20800)	15.95	15.67	15.80	15.66
	50RB (0)	2565 (21400)	15.93	15.70	15.77	15.61
		2535 (21100)	15.99	15.78	15.80	15.88
		2505 (20800)	15.79	15.80	15.96	15.74

15MHz	1RB-High (74)	2562.5 (21375)	15.99	15.70	15.80	15.62
		2535 (21100)	15.92	15.79	15.92	15.89
		2507.5 (20825)	15.78	15.75	15.82	15.77
	1RB-Middle (37)	2562.5 (21375)	16.01	15.64	15.80	15.87
		2535 (21100)	15.87	15.65	15.77	15.76
		2507.5 (20825)	15.81	15.67	15.84	15.91
	1RB-Low (0)	2562.5 (21375)	15.88	15.86	15.81	15.86
		2535 (21100)	15.89	15.72	15.75	15.64
		2507.5 (20825)	15.78	15.67	15.72	15.89
	36RB-High (38)	2562.5 (21375)	15.94	15.81	15.91	15.76
		2535 (21100)	15.92	15.73	15.90	15.93
		2507.5 (20825)	15.89	15.85	15.93	15.88
	36RB-Middle (19)	2562.5 (21375)	15.98	15.68	15.95	15.83
		2535 (21100)	15.87	15.75	15.87	15.62
		2507.5 (20825)	15.92	15.84	15.91	15.88
	36RB-Low (0)	2562.5 (21375)	15.81	15.86	15.96	15.78
		2535 (21100)	15.84	15.69	15.92	15.84
		2507.5 (20825)	15.81	15.64	15.85	15.88
	75RB (0)	2562.5 (21375)	15.98	15.76	15.78	15.88
		2535 (21100)	15.80	15.71	15.82	15.60
		2507.5 (20825)	16.02	15.71	15.91	15.65
20MHz	1RB-High (99)	2560 (21350)	15.70	16.07	15.79	15.71
		2535 (21100)	15.66	15.86	15.85	15.80
		2510 (20850)	15.77	16.08	15.82	15.66
	1RB-Middle (50)	2560 (21350)	15.87	16.18	15.84	15.61
		2535 (21100)	15.94	15.98	15.83	15.75
		2510 (20850)	15.91	16.16	16.00	15.70
	1RB-Low (0)	2560 (21350)	15.85	15.90	15.92	15.79
		2535 (21100)	15.75	16.12	15.94	15.93
		2510 (20850)	15.80	16.32	16.01	15.88
	50RB-High (50)	2560 (21350)	15.89	15.81	15.80	15.79
		2535 (21100)	15.90	15.81	15.81	15.61
		2510 (20850)	15.97	15.95	15.95	15.66
	50RB-Middle (25)	2560 (21350)	15.67	15.70	15.78	15.61
		2535 (21100)	15.98	15.88	15.86	15.72
		2510 (20850)	15.96	16.01	15.93	15.62
	50RB-Low (0)	2560 (21350)	15.82	15.86	15.83	15.78
		2535 (21100)	15.83	15.80	15.88	15.86
		2510 (20850)	15.94	15.94	15.94	15.78
	100RB (0)	2560 (21350)	15.75	15.78	15.77	15.72
		2535 (21100)	15.78	15.88	15.86	15.70
		2510 (20850)	15.94	15.93	15.93	15.78

LTE Band12 ANT2_A/B/C/D/E

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	715.3 (23173)	23.31	22.58	21.44	18.40
		707.5 (23095)	23.34	22.65	21.64	18.54
		699.7 (23017)	23.39	22.74	21.66	18.46
	1RB-Middle (3)	715.3 (23173)	23.35	22.60	21.55	18.40
		707.5 (23095)	23.38	22.77	21.74	18.58
		699.7 (23017)	23.46	22.76	21.96	18.45
	1RB-Low (0)	715.3 (23173)	23.33	22.67	21.58	18.39
		707.5 (23095)	23.30	22.52	21.55	18.52
		699.7 (23017)	23.36	22.74	21.79	18.58
	3RB-High (3)	715.3 (23173)	23.39	22.44	21.44	18.49
		707.5 (23095)	23.37	22.57	21.54	18.50
		699.7 (23017)	23.34	22.50	21.60	18.49
	3RB-Middle (1)	715.3 (23173)	23.32	22.41	21.50	18.43
		707.5 (23095)	23.34	22.52	21.65	18.55
		699.7 (23017)	23.36	22.58	21.64	18.35
	3RB-Low (0)	715.3 (23173)	23.37	22.47	21.49	18.39
		707.5 (23095)	23.33	22.45	21.43	18.52
		699.7 (23017)	23.40	22.52	21.43	18.57
	6RB (0)	715.3 (23173)	22.35	21.46	20.51	18.48
		707.5 (23095)	22.32	21.37	20.35	18.48
		699.7 (23017)	22.39	21.44	20.59	18.58
3MHz	1RB-High (14)	714.5 (23165)	23.33	22.60	21.43	18.56
		707.5 (23095)	23.38	22.52	21.71	18.45
		700.5 (23025)	23.36	22.80	21.64	18.49
	1RB-Middle (7)	714.5 (23165)	23.39	22.74	21.76	18.36
		707.5 (23095)	23.50	22.68	21.83	18.60
		700.5 (23025)	23.48	22.79	21.67	18.55
	1RB-Low (0)	714.5 (23165)	23.34	22.66	21.71	18.53
		707.5 (23095)	23.36	22.78	21.48	18.44
		700.5 (23025)	23.36	22.69	21.58	18.35
	8RB-High (7)	714.5 (23165)	22.38	21.40	20.46	18.44
		707.5 (23095)	22.43	21.54	20.49	18.50
		700.5 (23025)	22.43	21.46	20.64	18.54
	8RB-Middle (4)	714.5 (23165)	22.35	21.34	20.45	18.49
		707.5 (23095)	22.49	21.55	20.54	18.37
		700.5 (23025)	22.51	21.58	20.55	18.37
	8RB-Low (0)	714.5 (23165)	22.31	21.48	20.43	18.36
		707.5 (23095)	22.39	21.45	20.43	18.58
		700.5 (23025)	22.43	21.44	20.60	18.54
	15RB (0)	714.5 (23165)	22.38	21.31	20.35	18.35
		707.5 (23095)	22.37	21.38	20.54	18.54
		700.5 (23025)	22.49	21.46	20.60	18.60

5MHz	1RB-High (24)	713.5 (23155)	23.41	22.57	21.61	18.47
		707.5 (23095)	23.33	22.87	21.37	18.58
		701.5 (23035)	23.31	22.73	21.49	18.38
	1RB-Middle (12)	713.5 (23155)	23.33	22.71	21.72	18.41
		707.5 (23095)	23.41	22.67	21.55	18.38
		701.5 (23035)	23.42	22.75	21.63	18.46
	1RB-Low (0)	713.5 (23155)	23.37	22.69	21.69	18.49
		707.5 (23095)	23.37	22.66	21.63	18.38
		701.5 (23035)	23.30	22.76	21.70	18.58
	12RB-High (13)	713.5 (23155)	23.46	21.44	20.51	18.44
		707.5 (23095)	22.39	21.44	20.53	18.48
		701.5 (23035)	22.42	21.43	20.60	18.39
	12RB-Middle (6)	713.5 (23155)	23.41	21.37	20.53	18.50
		707.5 (23095)	22.38	21.37	20.48	18.43
		701.5 (23035)	22.43	21.57	20.60	18.38
	12RB-Low (0)	713.5 (23155)	23.46	21.43	20.54	18.47
		707.5 (23095)	22.41	21.49	20.53	18.55
		701.5 (23035)	22.40	21.43	20.44	18.49
	25RB (0)	713.5 (23155)	22.41	21.39	20.42	18.38
		707.5 (23095)	22.33	21.36	20.49	18.43
		701.5 (23035)	22.42	21.54	20.55	18.45
10MHz	1RB-High (49)	711 (23130)	23.21	22.37	21.83	18.35
		707.5 (23095)	23.20	22.50	21.37	18.45
		704 (23060)	23.31	22.42	21.50	18.60
	1RB-Middle (24)	711 (23130)	23.34	22.75	22.42	18.37
		707.5 (23095)	23.34	22.62	21.64	18.40
		704 (23060)	23.36	22.53	21.63	18.49
	1RB-Low (0)	711 (23130)	23.46	22.71	22.39	18.59
		707.5 (23095)	23.32	22.65	21.56	18.51
		704 (23060)	23.48	22.53	21.64	18.47
	25RB-High (25)	711 (23130)	22.34	21.38	20.36	18.56
		707.5 (23095)	22.30	21.42	20.31	18.58
		704 (23060)	22.28	21.35	20.36	18.46
	25RB-Middle (12)	711 (23130)	22.41	21.40	20.70	18.53
		707.5 (23095)	22.31	21.28	20.40	18.35
		704 (23060)	22.41	21.41	20.47	18.55
	25RB-Low (0)	711 (23130)	22.28	21.39	20.34	18.58
		707.5 (23095)	22.35	21.30	20.25	18.54
		704 (23060)	22.32	21.37	20.35	18.41
	50RB (0)	711 (23130)	22.30	21.43	20.39	18.37
		707.5 (23095)	22.28	21.24	20.37	18.56
		704 (23060)	22.42	21.44	20.32	18.42

LTE Band25 ANT1_A/C/E

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	23.60	22.69	21.61	18.96
		1882.5 (26365)	23.34	22.67	21.47	18.54
		1850.7 (26047)	23.34	22.54	21.68	18.59
	1RB-Middle (3)	1914.3 (26683)	23.40	22.76	21.57	18.17
		1882.5 (26365)	23.43	22.78	21.77	19.11
		1850.7 (26047)	23.39	22.68	21.60	17.82
	1RB-Low (0)	1914.3 (26683)	23.36	22.72	21.47	17.86
		1882.5 (26365)	23.36	22.58	21.48	17.82
		1850.7 (26047)	23.30	22.81	21.54	18.52
	3RB-High (3)	1914.3 (26683)	23.37	22.49	21.58	18.19
		1882.5 (26365)	23.41	22.63	21.62	18.50
		1850.7 (26047)	23.36	22.50	21.53	18.30
	3RB-Middle (1)	1914.3 (26683)	23.36	22.54	21.54	18.94
		1882.5 (26365)	23.47	22.43	21.57	19.12
		1850.7 (26047)	23.38	22.61	21.54	19.04
	3RB-Low (0)	1914.3 (26683)	23.35	22.60	21.61	18.41
		1882.5 (26365)	23.39	22.53	21.53	18.38
		1850.7 (26047)	23.39	22.49	21.63	18.72
	6RB (0)	1914.3 (26683)	22.46	21.58	20.51	18.80
		1882.5 (26365)	22.41	21.46	20.60	19.04
		1850.7 (26047)	22.42	21.44	20.56	18.74
3MHz	1RB-High (14)	1913.5 (26675)	23.32	22.94	21.57	18.52
		1882.5 (26365)	23.41	22.67	21.62	17.98
		1851.5 (26055)	23.37	22.65	21.58	18.16
	1RB-Middle (7)	1913.5 (26675)	23.67	22.75	21.78	19.12
		1882.5 (26365)	23.48	22.89	21.61	19.17
		1851.5 (26055)	23.40	22.79	21.59	17.86
	1RB-Low (0)	1913.5 (26675)	23.38	22.68	21.62	18.36
		1882.5 (26365)	23.39	22.75	21.55	18.77
		1851.5 (26055)	23.28	22.76	21.58	19.18
	8RB-High (7)	1913.5 (26675)	22.43	21.51	20.53	18.24
		1882.5 (26365)	22.46	21.56	20.60	17.94
		1851.5 (26055)	22.39	21.48	20.56	19.15
	8RB-Middle (4)	1913.5 (26675)	22.47	21.64	20.60	18.81
		1882.5 (26365)	22.45	21.53	20.62	18.35
		1851.5 (26055)	22.47	21.51	20.59	19.06
	8RB-Low (0)	1913.5 (26675)	22.36	21.33	20.52	17.91
		1882.5 (26365)	22.34	21.47	20.49	17.90
		1851.5 (26055)	22.43	21.43	20.59	18.11
	15RB (0)	1913.5 (26675)	22.49	21.46	20.50	19.24
		1882.5 (26365)	22.47	21.41	20.46	17.81
		1851.5 (26055)	22.45	21.45	20.53	17.87

5MHz	1RB-High (24)	1912.5 (26665)	23.38	22.93	21.78	18.15
		1882.5 (26365)	23.37	22.75	21.73	17.96
		1852.5 (26065)	23.37	22.69	21.61	17.98
	1RB-Middle (12)	1912.5 (26665)	23.45	22.90	21.71	19.17
		1882.5 (26365)	23.51	22.84	21.76	19.04
		1852.5 (26065)	23.37	22.64	21.63	18.97
	1RB-Low (0)	1912.5 (26665)	23.35	22.83	21.59	18.05
		1882.5 (26365)	23.32	23.01	21.58	18.50
		1852.5 (26065)	23.28	22.66	21.62	18.68
	12RB-High (13)	1912.5 (26665)	22.47	21.45	20.52	18.27
		1882.5 (26365)	22.40	21.48	20.63	18.99
		1852.5 (26065)	22.44	21.46	20.62	18.20
	12RB-Middle (6)	1912.5 (26665)	22.52	21.57	20.63	19.21
		1882.5 (26365)	22.46	21.46	20.55	19.12
		1852.5 (26065)	22.46	21.47	20.62	18.86
	12RB-Low (0)	1912.5 (26665)	22.39	21.34	20.53	19.23
		1882.5 (26365)	22.39	21.46	20.57	18.83
		1852.5 (26065)	22.44	21.49	20.60	18.64
	25RB (0)	1912.5 (26665)	22.54	21.52	20.58	17.91
		1882.5 (26365)	22.46	21.46	20.57	18.86
		1852.5 (26065)	22.44	21.46	20.57	18.35
10MHz	1RB-High (49)	1910 (26640)	23.41	22.53	21.75	18.47
		1882.5 (26365)	23.34	22.65	21.69	18.07
		1855 (26090)	23.34	22.80	21.59	19.14
	1RB-Middle (24)	1910 (26640)	23.42	22.69	21.76	18.97
		1882.5 (26365)	23.35	22.77	21.62	19.17
		1855 (26090)	23.43	22.67	21.65	19.19
	1RB-Low (0)	1910 (26640)	23.41	22.79	21.66	18.37
		1882.5 (26365)	23.41	22.79	21.58	18.50
		1855 (26090)	23.32	22.64	21.68	19.14
	25RB-High (25)	1910 (26640)	22.49	21.55	20.57	18.34
		1882.5 (26365)	22.45	21.52	20.66	18.73
		1855 (26090)	22.45	21.45	20.59	18.23
	25RB-Middle (12)	1910 (26640)	22.50	21.59	20.64	18.14
		1882.5 (26365)	22.43	21.52	20.55	18.56
		1855 (26090)	22.42	21.55	20.56	18.60
	25RB-Low (0)	1910 (26640)	22.32	21.39	20.51	18.59
		1882.5 (26365)	22.39	21.38	20.51	18.56
		1855 (26090)	22.38	21.34	20.45	18.36
	50RB (0)	1910 (26640)	22.50	21.53	20.60	18.06
		1882.5 (26365)	22.32	21.39	20.49	18.49
		1855 (26090)	22.39	21.44	20.57	19.28

15MHz	1RB-High (74)	1907.5 (26615)	23.25	22.46	21.75	18.46
		1882.5 (26365)	23.27	22.41	21.46	19.04
		1857.5 (26115)	23.27	22.42	21.43	18.42
	1RB-Middle (37)	1907.5 (26615)	23.32	22.57	21.81	18.19
		1882.5 (26365)	23.22	22.50	21.53	18.43
		1857.5 (26115)	23.27	22.64	21.26	18.36
	1RB-Low (0)	1907.5 (26615)	23.19	22.54	21.31	18.95
		1882.5 (26365)	23.16	22.61	21.56	18.28
		1857.5 (26115)	23.24	22.47	21.41	18.04
	36RB-High (38)	1907.5 (26615)	22.37	21.33	20.46	18.01
		1882.5 (26365)	22.33	21.39	20.48	19.24
		1857.5 (26115)	22.30	21.33	20.42	18.78
	36RB-Middle (19)	1907.5 (26615)	22.26	21.23	20.38	17.98
		1882.5 (26365)	22.29	21.28	20.39	19.02
		1857.5 (26115)	22.28	21.32	20.40	19.30
	36RB-Low (0)	1907.5 (26615)	22.31	21.35	20.43	19.11
		1882.5 (26365)	22.19	21.34	20.36	18.29
		1857.5 (26115)	22.14	21.20	20.38	18.05
	75RB (0)	1907.5 (26615)	22.22	21.28	20.42	19.27
		1882.5 (26365)	22.16	21.29	20.30	19.24
		1857.5 (26115)	22.27	21.29	20.39	18.67
20MHz	1RB-High (99)	1905 (26590)	23.15	22.53	21.42	18.82
		1882.5 (26365)	23.26	22.35	21.30	18.44
		1860 (26140)	23.21	22.29	21.30	18.60
	1RB-Middle (50)	1905 (26590)	23.43	22.31	21.40	18.69
		1882.5 (26365)	23.16	22.37	21.40	18.49
		1860 (26140)	23.27	22.43	21.48	18.79
	1RB-Low (0)	1905 (26590)	23.34	22.58	21.48	17.84
		1882.5 (26365)	23.35	22.33	21.34	18.41
		1860 (26140)	23.22	22.21	21.42	18.54
	50RB-High (50)	1905 (26590)	22.35	21.27	20.35	18.02
		1882.5 (26365)	22.33	21.33	20.34	18.69
		1860 (26140)	22.31	21.30	20.35	17.91
	50RB-Middle (25)	1905 (26590)	22.26	21.30	20.30	18.98
		1882.5 (26365)	22.19	21.25	20.19	18.01
		1860 (26140)	22.27	21.35	20.30	19.13
	50RB-Low (0)	1905 (26590)	22.27	21.26	20.32	18.80
		1882.5 (26365)	22.28	21.21	20.34	18.52
		1860 (26140)	22.23	21.25	20.20	17.88
	100RB (0)	1905 (26590)	22.31	21.29	20.27	18.42
		1882.5 (26365)	22.30	21.28	20.36	18.50
		1860 (26140)	22.36	21.35	20.30	19.22

LTE Band25 ANT1_B

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	22.01	22.28	22.12	18.71
		1882.5 (26365)	22.13	22.51	22.27	18.66
		1850.7 (26047)	22.06	22.38	22.28	18.62
	1RB-Middle (3)	1914.3 (26683)	22.10	22.47	22.18	18.85
		1882.5 (26365)	22.22	22.59	22.32	18.90
		1850.7 (26047)	22.14	22.51	22.26	19.00
	1RB-Low (0)	1914.3 (26683)	22.12	22.35	22.13	19.01
		1882.5 (26365)	22.14	22.35	22.46	19.07
		1850.7 (26047)	22.06	22.56	22.29	18.61
	3RB-High (3)	1914.3 (26683)	22.08	22.15	22.09	19.04
		1882.5 (26365)	22.18	22.31	22.24	18.88
		1850.7 (26047)	22.12	22.35	22.28	18.89
	3RB-Middle (1)	1914.3 (26683)	22.12	22.18	22.23	18.66
		1882.5 (26365)	22.14	22.23	22.27	18.93
		1850.7 (26047)	22.16	22.19	22.31	18.62
	3RB-Low (0)	1914.3 (26683)	22.13	22.15	22.12	18.95
		1882.5 (26365)	22.16	22.33	22.31	18.76
		1850.7 (26047)	22.16	22.29	22.22	18.64
	6RB (0)	1914.3 (26683)	22.07	21.25	21.15	18.61
		1882.5 (26365)	22.23	21.30	21.23	19.01
		1850.7 (26047)	22.17	21.28	21.09	18.81
3MHz	1RB-High (14)	1913.5 (26675)	22.21	22.50	22.18	18.76
		1882.5 (26365)	22.14	22.57	22.32	18.80
		1851.5 (26055)	22.10	22.48	22.24	19.02
	1RB-Middle (7)	1913.5 (26675)	22.24	22.43	22.24	18.73
		1882.5 (26365)	22.23	22.58	22.34	19.01
		1851.5 (26055)	22.27	22.41	22.35	19.00
	1RB-Low (0)	1913.5 (26675)	22.08	22.47	22.20	18.93
		1882.5 (26365)	22.11	22.49	22.17	18.62
		1851.5 (26055)	22.09	22.48	22.29	18.75
	8RB-High (7)	1913.5 (26675)	22.18	21.22	21.15	18.87
		1882.5 (26365)	22.18	21.23	21.24	18.68
		1851.5 (26055)	22.14	21.22	21.19	19.06
	8RB-Middle (4)	1913.5 (26675)	22.20	21.24	21.22	19.06
		1882.5 (26365)	22.27	21.33	21.25	18.96
		1851.5 (26055)	22.22	21.24	21.21	19.07
	8RB-Low (0)	1913.5 (26675)	22.11	21.07	21.05	18.75
		1882.5 (26365)	22.13	21.16	21.18	18.84
		1851.5 (26055)	22.14	21.21	21.21	19.09
	15RB (0)	1913.5 (26675)	22.17	21.16	21.15	19.02
		1882.5 (26365)	22.17	21.18	21.10	18.91
		1851.5 (26055)	22.20	21.24	21.24	19.08

5MHz	1RB-High (24)	1912.5 (26665)	22.14	22.35	22.37	18.97
		1882.5 (26365)	22.13	22.44	22.27	18.86
		1852.5 (26065)	22.14	22.47	22.37	18.93
	1RB-Middle (12)	1912.5 (26665)	22.21	22.44	22.38	18.93
		1882.5 (26365)	22.25	22.66	22.29	18.97
		1852.5 (26065)	22.19	22.51	22.31	18.92
	1RB-Low (0)	1912.5 (26665)	22.19	22.38	22.30	18.77
		1882.5 (26365)	22.15	22.36	22.14	18.81
		1852.5 (26065)	22.11	22.61	22.11	18.98
	12RB-High (13)	1912.5 (26665)	22.13	21.23	21.18	18.69
		1882.5 (26365)	22.21	21.21	21.26	18.62
		1852.5 (26065)	22.22	21.20	21.24	18.76
	12RB-Middle (6)	1912.5 (26665)	22.20	21.30	21.21	19.05
		1882.5 (26365)	22.20	21.24	21.20	19.02
		1852.5 (26065)	22.24	21.23	21.27	18.92
	12RB-Low (0)	1912.5 (26665)	22.21	21.23	21.19	19.06
		1882.5 (26365)	22.09	21.11	21.21	18.86
		1852.5 (26065)	22.19	21.30	21.22	18.68
	25RB (0)	1912.5 (26665)	22.23	21.15	21.16	18.72
		1882.5 (26365)	22.18	21.21	21.12	18.66
		1852.5 (26065)	22.21	21.14	21.23	18.83
10MHz	1RB-High (49)	1910 (26640)	22.14	22.67	22.41	18.92
		1882.5 (26365)	22.18	22.37	22.16	18.96
		1855 (26090)	22.21	22.41	22.16	18.85
	1RB-Middle (24)	1910 (26640)	22.25	22.41	22.30	18.97
		1882.5 (26365)	22.28	22.45	22.33	18.87
		1855 (26090)	22.15	22.52	22.28	18.69
	1RB-Low (0)	1910 (26640)	22.16	22.39	22.35	18.77
		1882.5 (26365)	22.22	22.52	22.36	18.74
		1855 (26090)	22.13	22.45	22.29	18.85
	25RB-High (25)	1910 (26640)	22.23	21.20	21.29	19.10
		1882.5 (26365)	22.26	21.27	21.19	18.75
		1855 (26090)	22.18	21.22	21.27	18.64
	25RB-Middle (12)	1910 (26640)	22.18	21.16	21.17	18.84
		1882.5 (26365)	22.22	21.15	21.27	18.90
		1855 (26090)	22.22	21.24	21.26	18.70
	25RB-Low (0)	1910 (26640)	22.21	21.22	21.11	18.84
		1882.5 (26365)	22.17	21.08	21.10	18.89
		1855 (26090)	22.13	21.20	21.10	18.74
	50RB (0)	1910 (26640)	22.20	21.21	21.21	18.90
		1882.5 (26365)	22.15	21.21	21.20	18.88
		1855 (26090)	22.21	21.19	21.27	18.70

15MHz	1RB-High (74)	1907.5 (26615)	21.94	22.18	22.04	18.72
		1882.5 (26365)	21.97	22.29	22.03	19.09
		1857.5 (26115)	22.10	22.39	22.16	19.00
	1RB-Middle (37)	1907.5 (26615)	21.95	22.28	22.40	18.75
		1882.5 (26365)	22.06	22.27	22.11	18.66
		1857.5 (26115)	22.03	22.13	22.40	19.06
	1RB-Low (0)	1907.5 (26615)	21.97	22.38	21.99	18.82
		1882.5 (26365)	22.00	22.18	22.02	18.93
		1857.5 (26115)	21.94	22.32	22.08	18.75
	36RB-High (38)	1907.5 (26615)	22.02	21.08	21.11	19.06
		1882.5 (26365)	22.10	21.11	21.01	18.61
		1857.5 (26115)	22.05	21.09	21.11	19.05
	36RB-Middle (19)	1907.5 (26615)	22.03	20.94	20.95	19.01
		1882.5 (26365)	21.97	21.02	21.00	19.08
		1857.5 (26115)	22.05	20.98	21.10	18.86
	36RB-Low (0)	1907.5 (26615)	21.98	20.95	20.96	18.74
		1882.5 (26365)	21.95	21.09	20.98	18.96
		1857.5 (26115)	21.95	20.95	21.00	18.65
	75RB (0)	1907.5 (26615)	22.00	20.95	21.02	18.67
		1882.5 (26365)	21.98	21.02	20.94	18.93
		1857.5 (26115)	22.08	21.05	21.11	18.71
20MHz	1RB-High (99)	1905 (26590)	21.92	22.15	22.03	18.63
		1882.5 (26365)	21.96	22.15	22.08	18.78
		1860 (26140)	21.96	21.97	22.07	18.68
	1RB-Middle (50)	1905 (26590)	22.06	22.32	22.10	18.86
		1882.5 (26365)	22.03	22.36	22.19	18.74
		1860 (26140)	22.05	22.31	22.02	19.08
	1RB-Low (0)	1905 (26590)	22.02	22.37	22.09	18.69
		1882.5 (26365)	21.93	22.18	22.07	18.66
		1860 (26140)	22.00	22.20	22.21	18.96
	50RB-High (50)	1905 (26590)	22.05	21.08	20.95	18.95
		1882.5 (26365)	22.02	21.01	21.10	18.95
		1860 (26140)	22.01	21.07	21.04	18.74
	50RB-Middle (25)	1905 (26590)	22.03	21.04	21.03	18.99
		1882.5 (26365)	22.01	21.02	21.03	18.83
		1860 (26140)	22.01	21.14	21.05	18.71
	50RB-Low (0)	1905 (26590)	21.96	20.93	20.93	18.66
		1882.5 (26365)	22.00	21.05	20.89	18.73
		1860 (26140)	22.01	21.01	21.04	19.04
	100RB (0)	1905 (26590)	21.96	20.97	21.06	19.00
		1882.5 (26365)	22.06	21.00	21.04	18.70
		1860 (26140)	22.03	20.99	21.10	18.79

LTE Band25 ANT1_D

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	19.14	19.56	19.16	18.78
		1882.5 (26365)	19.17	19.51	19.35	18.89
		1850.7 (26047)	19.19	19.41	19.34	19.06
	1RB-Middle (3)	1914.3 (26683)	19.18	19.50	19.23	18.98
		1882.5 (26365)	19.25	19.70	19.25	18.61
		1850.7 (26047)	19.20	19.52	19.34	19.07
	1RB-Low (0)	1914.3 (26683)	19.12	19.51	19.21	18.75
		1882.5 (26365)	19.19	19.61	19.38	18.65
		1850.7 (26047)	19.17	19.46	19.23	18.88
	3RB-High (3)	1914.3 (26683)	19.20	19.33	19.31	18.83
		1882.5 (26365)	19.22	19.28	19.31	18.61
		1850.7 (26047)	19.21	19.39	19.24	18.93
	3RB-Middle (1)	1914.3 (26683)	19.14	19.33	19.30	18.66
		1882.5 (26365)	19.28	19.35	19.32	18.84
		1850.7 (26047)	19.18	19.35	19.34	18.96
	3RB-Low (0)	1914.3 (26683)	19.12	19.19	19.34	18.60
		1882.5 (26365)	19.20	19.41	19.27	18.87
		1850.7 (26047)	19.17	19.42	19.22	19.04
	6RB (0)	1914.3 (26683)	19.16	19.14	19.14	18.82
		1882.5 (26365)	19.28	19.34	19.25	18.99
		1850.7 (26047)	19.16	19.29	19.26	18.82
3MHz	1RB-High (14)	1913.5 (26675)	19.12	19.46	19.27	18.73
		1882.5 (26365)	19.18	19.57	19.39	18.77
		1851.5 (26055)	19.14	19.51	19.24	18.74
	1RB-Middle (7)	1913.5 (26675)	19.25	19.63	19.25	19.09
		1882.5 (26365)	19.30	19.62	19.37	18.79
		1851.5 (26055)	19.19	19.59	19.34	18.74
	1RB-Low (0)	1913.5 (26675)	19.12	19.45	19.35	18.78
		1882.5 (26365)	19.13	19.44	19.31	18.64
		1851.5 (26055)	19.13	19.45	19.36	18.66
	8RB-High (7)	1913.5 (26675)	19.23	19.24	19.33	18.98
		1882.5 (26365)	19.24	19.36	19.31	18.83
		1851.5 (26055)	19.25	19.33	19.31	19.01
	8RB-Middle (4)	1913.5 (26675)	19.25	19.26	19.23	18.92
		1882.5 (26365)	19.32	19.41	19.32	19.03
		1851.5 (26055)	19.21	19.26	19.25	18.88
	8RB-Low (0)	1913.5 (26675)	19.16	19.17	19.11	18.78
		1882.5 (26365)	19.18	19.19	19.17	19.08
		1851.5 (26055)	19.24	19.28	19.24	18.94
	15RB (0)	1913.5 (26675)	19.16	19.20	19.12	18.86
		1882.5 (26365)	19.21	19.30	19.19	19.05
		1851.5 (26055)	19.20	19.26	19.25	18.86

5MHz	1RB-High (24)	1912.5 (26665)	19.22	19.46	19.44	19.10
		1882.5 (26365)	19.18	19.57	19.32	19.01
		1852.5 (26065)	19.14	19.56	19.37	18.84
	1RB-Middle (12)	1912.5 (26665)	19.34	19.42	19.49	18.67
		1882.5 (26365)	19.32	19.69	19.40	18.61
		1852.5 (26065)	19.22	19.54	19.43	18.96
	1RB-Low (0)	1912.5 (26665)	19.25	19.49	19.32	18.63
		1882.5 (26365)	19.17	19.59	19.30	18.72
		1852.5 (26065)	19.16	19.58	19.16	19.01
	12RB-High (13)	1912.5 (26665)	19.24	19.33	19.32	18.75
		1882.5 (26365)	19.30	19.25	19.25	18.96
		1852.5 (26065)	19.22	19.30	19.24	19.01
	12RB-Middle (6)	1912.5 (26665)	19.28	19.29	19.26	18.76
		1882.5 (26365)	19.25	19.36	19.26	18.87
		1852.5 (26065)	19.34	19.27	19.29	18.96
	12RB-Low (0)	1912.5 (26665)	19.21	19.33	19.19	18.84
		1882.5 (26365)	19.20	19.21	19.20	18.77
		1852.5 (26065)	19.20	19.32	19.26	18.96
	25RB (0)	1912.5 (26665)	19.25	19.23	19.23	18.84
		1882.5 (26365)	19.22	19.20	19.20	18.84
		1852.5 (26065)	19.22	19.27	19.23	18.97
10MHz	1RB-High (49)	1910 (26640)	19.13	19.39	19.34	18.79
		1882.5 (26365)	19.19	19.46	19.28	18.84
		1855 (26090)	19.23	19.56	19.34	18.83
	1RB-Middle (24)	1910 (26640)	19.18	19.51	19.41	18.82
		1882.5 (26365)	19.22	19.45	19.41	19.04
		1855 (26090)	19.18	19.50	19.49	18.68
	1RB-Low (0)	1910 (26640)	19.26	19.41	19.43	18.83
		1882.5 (26365)	19.21	19.56	19.28	19.01
		1855 (26090)	19.07	19.58	19.40	18.70
	25RB-High (25)	1910 (26640)	19.29	19.23	19.26	18.91
		1882.5 (26365)	19.26	19.31	19.33	19.01
		1855 (26090)	19.25	19.28	19.30	18.63
	25RB-Middle (12)	1910 (26640)	19.21	19.22	19.24	18.89
		1882.5 (26365)	19.19	19.32	19.29	18.87
		1855 (26090)	19.31	19.36	19.33	18.70
	25RB-Low (0)	1910 (26640)	19.26	19.19	19.12	19.08
		1882.5 (26365)	19.19	19.14	19.17	18.94
		1855 (26090)	19.12	19.14	19.27	18.99
	50RB (0)	1910 (26640)	19.17	19.19	19.26	18.76
		1882.5 (26365)	19.26	19.16	19.16	18.84
		1855 (26090)	19.28	19.32	19.29	18.87

15MHz	1RB-High (74)	1907.5 (26615)	19.01	19.33	19.02	18.80
		1882.5 (26365)	19.04	19.14	19.05	18.96
		1857.5 (26115)	19.08	19.38	19.02	18.81
	1RB-Middle (37)	1907.5 (26615)	19.07	19.28	19.24	19.06
		1882.5 (26365)	19.09	19.34	19.19	18.75
		1857.5 (26115)	18.95	19.39	19.03	18.88
	1RB-Low (0)	1907.5 (26615)	19.02	19.13	19.06	18.99
		1882.5 (26365)	19.04	19.37	19.06	19.01
		1857.5 (26115)	18.95	19.21	19.09	18.85
	36RB-High (38)	1907.5 (26615)	19.12	19.14	19.14	18.96
		1882.5 (26365)	19.10	19.06	19.14	18.93
		1857.5 (26115)	19.10	19.12	19.13	18.81
	36RB-Middle (19)	1907.5 (26615)	19.08	19.06	19.00	18.79
		1882.5 (26365)	19.09	19.06	19.08	18.79
		1857.5 (26115)	19.11	19.17	19.05	18.91
	36RB-Low (0)	1907.5 (26615)	19.00	18.97	19.03	18.69
		1882.5 (26365)	18.97	18.95	18.95	19.10
		1857.5 (26115)	19.03	18.98	19.05	18.90
	75RB (0)	1907.5 (26615)	19.02	19.02	19.06	18.62
		1882.5 (26365)	19.00	19.00	19.04	18.61
		1857.5 (26115)	19.07	19.07	19.08	19.10
20MHz	1RB-High (99)	1905 (26590)	18.96	19.21	19.02	18.99
		1882.5 (26365)	19.05	19.29	19.20	18.86
		1860 (26140)	18.98	19.24	19.05	18.78
	1RB-Middle (50)	1905 (26590)	19.09	19.27	19.25	19.01
		1882.5 (26365)	19.08	19.37	19.30	18.69
		1860 (26140)	19.04	19.26	19.08	18.68
	1RB-Low (0)	1905 (26590)	18.99	19.31	19.16	18.64
		1882.5 (26365)	19.02	19.25	19.06	18.99
		1860 (26140)	18.96	19.36	19.17	18.90
	50RB-High (50)	1905 (26590)	19.09	19.15	19.10	19.04
		1882.5 (26365)	19.03	19.11	19.09	19.10
		1860 (26140)	19.06	19.08	19.09	19.08
	50RB-Middle (25)	1905 (26590)	19.07	18.96	18.94	18.99
		1882.5 (26365)	19.05	19.06	19.07	18.81
		1860 (26140)	19.08	19.11	19.08	18.62
	50RB-Low (0)	1905 (26590)	19.00	19.03	19.02	18.70
		1882.5 (26365)	18.98	19.04	19.11	18.96
		1860 (26140)	19.08	19.11	19.08	18.96
	100RB (0)	1905 (26590)	19.03	19.03	18.91	18.73
		1882.5 (26365)	19.02	19.08	18.97	18.73
		1860 (26140)	19.12	19.12	19.16	18.87

LTE Band25 ANT5_E

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	23.13	21.84	20.82	18.13
		1882.5 (26365)	22.88	21.82	20.69	17.97
		1850.7 (26047)	22.88	21.70	20.89	17.88
	1RB-Middle (3)	1914.3 (26683)	22.94	21.91	20.78	17.94
		1882.5 (26365)	22.96	21.93	20.98	17.93
		1850.7 (26047)	22.93	21.83	20.81	18.17
	1RB-Low (0)	1914.3 (26683)	22.90	21.87	20.69	18.18
		1882.5 (26365)	22.90	21.74	20.70	18.02
		1850.7 (26047)	22.84	21.96	20.76	17.97
	3RB-High (3)	1914.3 (26683)	22.91	21.65	20.79	18.13
		1882.5 (26365)	22.94	21.79	20.83	17.93
		1850.7 (26047)	22.90	21.66	20.75	18.15
	3RB-Middle (1)	1914.3 (26683)	22.90	21.70	20.76	17.85
		1882.5 (26365)	23.00	21.59	20.78	17.83
		1850.7 (26047)	22.92	21.77	20.76	17.99
	3RB-Low (0)	1914.3 (26683)	22.89	21.76	20.82	18.11
		1882.5 (26365)	22.93	21.69	20.75	17.85
		1850.7 (26047)	22.93	21.65	20.84	18.04
	6RB (0)	1914.3 (26683)	22.01	20.78	19.76	18.12
		1882.5 (26365)	21.96	20.66	19.85	17.88
		1850.7 (26047)	21.97	20.64	19.81	17.98
3MHz	1RB-High (14)	1913.5 (26675)	22.86	22.08	20.78	17.97
		1882.5 (26365)	22.94	21.82	20.83	17.95
		1851.5 (26055)	22.91	21.81	20.79	18.07
	1RB-Middle (7)	1913.5 (26675)	23.20	21.90	20.99	17.93
		1882.5 (26365)	23.01	22.04	20.82	17.81
		1851.5 (26055)	22.94	21.94	20.80	17.97
	1RB-Low (0)	1913.5 (26675)	22.92	21.83	20.83	18.13
		1882.5 (26365)	22.93	21.90	20.77	17.94
		1851.5 (26055)	22.82	21.91	20.79	18.08
	8RB-High (7)	1913.5 (26675)	21.98	20.71	19.78	17.81
		1882.5 (26365)	22.01	20.76	19.85	17.84
		1851.5 (26055)	21.95	20.68	19.81	17.87
	8RB-Middle (4)	1913.5 (26675)	22.02	20.83	19.85	18.12
		1882.5 (26365)	22.00	20.73	19.87	17.87
		1851.5 (26055)	22.02	20.71	19.84	17.98
	8RB-Low (0)	1913.5 (26675)	21.92	20.53	19.77	17.92
		1882.5 (26365)	21.90	20.67	19.74	17.86
		1851.5 (26055)	21.98	20.63	19.84	17.97
	15RB (0)	1913.5 (26675)	22.04	20.66	19.75	18.17
		1882.5 (26365)	22.02	20.61	19.71	17.94
		1851.5 (26055)	22.00	20.65	19.78	18.15

5MHz	1RB-High (24)	1912.5 (26665)	22.92	22.08	20.99	18.03
		1882.5 (26365)	22.91	21.90	20.94	18.03
		1852.5 (26065)	22.91	21.84	20.82	17.97
	1RB-Middle (12)	1912.5 (26665)	22.98	22.05	20.92	18.06
		1882.5 (26365)	23.04	21.99	20.97	18.06
		1852.5 (26065)	22.91	21.80	20.84	17.80
	1RB-Low (0)	1912.5 (26665)	22.89	21.98	20.80	18.19
		1882.5 (26365)	22.86	22.15	20.79	17.82
		1852.5 (26065)	22.82	21.82	20.83	18.02
	12RB-High (13)	1912.5 (26665)	22.02	20.65	19.77	17.80
		1882.5 (26365)	21.95	20.68	19.88	18.06
		1852.5 (26065)	21.99	20.66	19.87	17.99
	12RB-Middle (6)	1912.5 (26665)	22.07	20.77	19.88	18.06
		1882.5 (26365)	22.01	20.66	19.80	17.94
		1852.5 (26065)	22.01	20.67	19.87	17.83
	12RB-Low (0)	1912.5 (26665)	21.95	20.54	19.78	17.80
		1882.5 (26365)	21.95	20.66	19.82	18.18
		1852.5 (26065)	21.99	20.69	19.85	17.81
	25RB (0)	1912.5 (26665)	22.09	20.72	19.83	18.06
		1882.5 (26365)	22.01	20.66	19.82	17.93
		1852.5 (26065)	21.99	20.66	19.82	17.92
10MHz	1RB-High (49)	1910 (26640)	22.94	21.69	20.96	17.92
		1882.5 (26365)	22.88	21.81	20.90	18.17
		1855 (26090)	22.88	21.95	20.80	18.12
	1RB-Middle (24)	1910 (26640)	22.95	21.84	20.97	17.97
		1882.5 (26365)	22.89	21.92	20.83	17.86
		1855 (26090)	22.96	21.82	20.86	17.87
	1RB-Low (0)	1910 (26640)	22.94	21.94	20.87	18.14
		1882.5 (26365)	22.94	21.94	20.79	17.90
		1855 (26090)	22.86	21.80	20.89	18.15
	25RB-High (25)	1910 (26640)	22.04	20.75	19.82	18.01
		1882.5 (26365)	22.00	20.72	19.91	18.09
		1855 (26090)	22.00	20.65	19.84	18.09
	25RB-Middle (12)	1910 (26640)	22.05	20.79	19.89	17.86
		1882.5 (26365)	21.98	20.72	19.80	18.19
		1855 (26090)	21.97	20.75	19.81	17.98
	25RB-Low (0)	1910 (26640)	21.88	20.59	19.76	18.07
		1882.5 (26365)	21.95	20.58	19.76	18.15
		1855 (26090)	21.94	20.54	19.71	17.81
	50RB (0)	1910 (26640)	22.05	20.73	19.85	17.90
		1882.5 (26365)	21.88	20.59	19.74	18.04
		1855 (26090)	21.95	20.64	19.82	18.10

15MHz	1RB-High (74)	1907.5 (26615)	22.79	21.62	20.96	17.90
		1882.5 (26365)	22.81	21.57	20.68	17.80
		1857.5 (26115)	22.81	21.58	20.65	18.02
	1RB-Middle (37)	1907.5 (26615)	22.86	21.73	21.02	17.96
		1882.5 (26365)	22.76	21.66	20.75	17.98
		1857.5 (26115)	22.81	21.80	20.69	18.14
	1RB-Low (0)	1907.5 (26615)	22.73	21.70	20.53	18.13
		1882.5 (26365)	22.70	21.77	20.77	17.93
		1857.5 (26115)	22.78	21.63	20.63	18.11
	36RB-High (38)	1907.5 (26615)	21.93	20.53	19.71	18.07
		1882.5 (26365)	21.89	20.59	19.73	18.18
		1857.5 (26115)	21.86	20.53	19.68	18.01
	36RB-Middle (19)	1907.5 (26615)	21.82	20.66	19.64	18.10
		1882.5 (26365)	21.85	20.69	19.65	17.82
		1857.5 (26115)	21.84	20.53	19.66	18.01
	36RB-Low (0)	1907.5 (26615)	21.87	20.55	19.69	17.82
		1882.5 (26365)	21.75	20.54	19.62	18.12
		1857.5 (26115)	21.70	20.61	19.64	17.96
	75RB (0)	1907.5 (26615)	21.78	20.69	19.68	18.07
		1882.5 (26365)	21.72	20.50	19.56	18.15
		1857.5 (26115)	21.83	20.50	19.65	17.91
20MHz	1RB-High (99)	1905 (26590)	22.69	21.69	20.64	18.06
		1882.5 (26365)	22.92	21.91	20.85	18.02
		1860 (26140)	22.79	21.78	20.73	17.87
	1RB-Middle (50)	1905 (26590)	22.83	21.82	20.77	18.10
		1882.5 (26365)	22.90	21.89	20.83	18.01
		1860 (26140)	22.78	21.77	20.73	17.82
	1RB-Low (0)	1905 (26590)	22.91	21.90	20.84	18.08
		1882.5 (26365)	22.84	21.83	20.78	18.08
		1860 (26140)	22.84	21.83	20.78	18.14
	50RB-High (50)	1905 (26590)	22.04	21.06	20.08	18.02
		1882.5 (26365)	21.98	21.01	20.02	17.97
		1860 (26140)	21.87	20.90	19.92	17.98
	50RB-Middle (25)	1905 (26590)	21.90	20.93	19.95	18.09
		1882.5 (26365)	22.00	21.02	20.04	17.87
		1860 (26140)	21.92	20.95	19.97	18.16
	50RB-Low (0)	1905 (26590)	21.83	20.86	19.88	17.91
		1882.5 (26365)	21.87	20.90	19.92	18.20
		1860 (26140)	21.88	20.91	19.93	18.03
	100RB (0)	1905 (26590)	21.85	20.88	19.90	18.10
		1882.5 (26365)	21.93	20.96	19.98	17.96
		1860 (26140)	21.88	20.91	19.93	17.81

LTE Band25 ANT5_C

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	19.04	19.12	18.89	18.48
		1882.5 (26365)	19.07	19.07	19.08	18.41
		1850.7 (26047)	19.09	18.97	19.07	18.50
	1RB-Middle (3)	1914.3 (26683)	19.08	19.06	18.96	18.35
		1882.5 (26365)	19.15	19.25	18.98	18.59
		1850.7 (26047)	19.10	19.08	19.07	18.50
	1RB-Low (0)	1914.3 (26683)	19.02	19.07	18.94	18.55
		1882.5 (26365)	19.09	19.16	19.11	18.44
		1850.7 (26047)	19.07	19.02	18.96	18.39
	3RB-High (3)	1914.3 (26683)	19.10	18.89	19.04	18.56
		1882.5 (26365)	19.12	18.84	19.04	18.46
		1850.7 (26047)	19.11	18.95	18.97	18.51
	3RB-Middle (1)	1914.3 (26683)	19.04	18.89	19.03	18.48
		1882.5 (26365)	19.18	18.91	19.05	18.60
		1850.7 (26047)	19.08	18.91	19.07	18.59
	3RB-Low (0)	1914.3 (26683)	19.02	18.75	19.07	18.36
		1882.5 (26365)	19.10	18.97	19.00	18.46
		1850.7 (26047)	19.07	18.98	18.95	18.57
	6RB (0)	1914.3 (26683)	19.06	18.71	18.87	18.60
		1882.5 (26365)	19.18	18.90	18.98	18.35
		1850.7 (26047)	19.06	18.85	18.99	18.48
3MHz	1RB-High (14)	1913.5 (26675)	19.02	19.02	19.00	18.41
		1882.5 (26365)	19.08	19.13	19.12	18.30
		1851.5 (26055)	19.04	19.07	18.97	18.34
	1RB-Middle (7)	1913.5 (26675)	19.15	19.18	18.98	18.57
		1882.5 (26365)	19.20	19.17	19.10	18.36
		1851.5 (26055)	19.09	19.14	19.07	18.47
	1RB-Low (0)	1913.5 (26675)	19.02	19.01	19.08	18.58
		1882.5 (26365)	19.03	19.00	19.04	18.43
		1851.5 (26055)	19.03	19.01	19.09	18.50
	8RB-High (7)	1913.5 (26675)	19.13	18.80	19.06	18.32
		1882.5 (26365)	19.14	18.92	19.04	18.54
		1851.5 (26055)	19.15	18.89	19.04	18.33
	8RB-Middle (4)	1913.5 (26675)	19.15	18.82	18.96	18.34
		1882.5 (26365)	19.22	18.97	19.05	18.34
		1851.5 (26055)	19.11	18.82	18.98	18.39
	8RB-Low (0)	1913.5 (26675)	19.06	18.73	18.84	18.33
		1882.5 (26365)	19.08	18.75	18.90	18.49
		1851.5 (26055)	19.14	18.84	18.97	18.41
	15RB (0)	1913.5 (26675)	19.06	18.76	18.85	18.49
		1882.5 (26365)	19.11	18.86	18.92	18.37
		1851.5 (26055)	19.10	18.82	18.98	18.50

5MHz	1RB-High (24)	1912.5 (26665)	19.12	19.02	19.17	18.56
		1882.5 (26365)	19.08	19.13	19.05	18.46
		1852.5 (26065)	19.04	19.12	19.10	18.48
	1RB-Middle (12)	1912.5 (26665)	19.24	18.98	19.22	18.44
		1882.5 (26365)	19.22	19.24	19.13	18.59
		1852.5 (26065)	19.12	19.10	19.16	18.33
	1RB-Low (0)	1912.5 (26665)	19.15	19.05	19.05	18.54
		1882.5 (26365)	19.07	19.14	19.03	18.43
		1852.5 (26065)	19.06	19.13	18.89	18.45
	12RB-High (13)	1912.5 (26665)	19.14	18.89	19.05	18.42
		1882.5 (26365)	19.20	18.81	18.98	18.50
		1852.5 (26065)	19.12	18.86	18.97	18.42
	12RB-Middle (6)	1912.5 (26665)	19.18	18.85	18.99	18.53
		1882.5 (26365)	19.15	18.92	18.99	18.47
		1852.5 (26065)	19.24	18.83	19.02	18.30
	12RB-Low (0)	1912.5 (26665)	19.11	18.89	18.92	18.60
		1882.5 (26365)	19.10	18.77	18.93	18.35
		1852.5 (26065)	19.10	18.88	18.99	18.60
	25RB (0)	1912.5 (26665)	19.15	18.79	18.96	18.59
		1882.5 (26365)	19.12	18.76	18.93	18.46
		1852.5 (26065)	19.12	18.83	18.96	18.36
10MHz	1RB-High (49)	1910 (26640)	19.03	18.95	19.07	18.40
		1882.5 (26365)	19.09	19.02	19.01	18.47
		1855 (26090)	19.13	19.12	19.07	18.56
	1RB-Middle (24)	1910 (26640)	19.08	19.07	19.14	18.46
		1882.5 (26365)	19.12	19.01	19.14	18.35
		1855 (26090)	19.08	19.06	19.22	18.55
	1RB-Low (0)	1910 (26640)	19.16	18.97	19.16	18.43
		1882.5 (26365)	19.11	19.12	19.01	18.52
		1855 (26090)	18.97	19.13	19.13	18.30
	25RB-High (25)	1910 (26640)	19.19	18.79	18.99	18.56
		1882.5 (26365)	19.16	18.87	19.06	18.46
		1855 (26090)	19.15	18.84	19.03	18.38
	25RB-Middle (12)	1910 (26640)	19.11	18.78	18.97	18.56
		1882.5 (26365)	19.09	18.88	19.02	18.36
		1855 (26090)	19.21	18.92	19.06	18.52
	25RB-Low (0)	1910 (26640)	19.16	18.75	18.85	18.43
		1882.5 (26365)	19.09	18.71	18.90	18.33
		1855 (26090)	19.02	18.71	19.00	18.60
	50RB (0)	1910 (26640)	19.07	18.75	18.99	18.56
		1882.5 (26365)	19.16	18.73	18.89	18.44
		1855 (26090)	19.18	18.88	19.02	18.38

15MHz	1RB-High (74)	1907.5 (26615)	18.91	18.89	18.75	18.38
		1882.5 (26365)	18.94	18.71	18.78	18.43
		1857.5 (26115)	18.98	18.94	18.75	18.42
	1RB-Middle (37)	1907.5 (26615)	18.97	18.84	18.97	18.55
		1882.5 (26365)	18.99	18.90	18.92	18.44
		1857.5 (26115)	18.85	18.95	18.76	18.49
	1RB-Low (0)	1907.5 (26615)	18.92	18.70	18.79	18.58
		1882.5 (26365)	18.94	18.93	18.79	18.60
		1857.5 (26115)	18.85	18.77	18.82	18.34
	36RB-High (38)	1907.5 (26615)	19.02	18.71	18.87	18.60
		1882.5 (26365)	19.00	18.63	18.87	18.57
		1857.5 (26115)	19.00	18.69	18.86	18.40
	36RB-Middle (19)	1907.5 (26615)	18.98	18.63	18.73	18.32
		1882.5 (26365)	18.99	18.63	18.81	18.32
		1857.5 (26115)	19.01	18.73	18.78	18.37
	36RB-Low (0)	1907.5 (26615)	18.90	18.54	18.76	18.41
		1882.5 (26365)	18.87	18.52	18.69	18.57
		1857.5 (26115)	18.93	18.55	18.78	18.45
	75RB (0)	1907.5 (26615)	18.92	18.59	18.79	18.51
		1882.5 (26365)	18.90	18.57	18.77	18.30
		1857.5 (26115)	18.97	18.64	18.81	18.56
20MHz	1RB-High (99)	1905 (26590)	18.94	18.78	18.88	18.48
		1882.5 (26365)	18.94	18.89	18.99	18.59
		1860 (26140)	18.84	18.79	18.89	18.49
	1RB-Middle (50)	1905 (26590)	18.96	18.81	18.91	18.51
		1882.5 (26365)	18.95	18.93	19.03	18.63
		1860 (26140)	18.87	18.82	18.92	18.52
	1RB-Low (0)	1905 (26590)	18.95	18.90	19.00	18.60
		1882.5 (26365)	18.94	18.88	18.98	18.58
		1860 (26140)	18.89	18.84	18.94	18.54
	50RB-High (50)	1905 (26590)	18.84	18.90	18.95	18.28
		1882.5 (26365)	19.02	19.07	19.13	18.45
		1860 (26140)	18.94	19.00	19.05	18.38
	50RB-Middle (25)	1905 (26590)	18.87	18.93	18.98	18.31
		1882.5 (26365)	19.03	19.08	19.14	18.46
		1860 (26140)	18.95	19.01	19.06	18.39
	50RB-Low (0)	1905 (26590)	18.86	18.92	18.97	18.30
		1882.5 (26365)	18.97	19.03	19.08	18.41
		1860 (26140)	18.94	19.00	19.05	18.38
	100RB (0)	1905 (26590)	18.85	18.91	18.96	18.29
		1882.5 (26365)	19.01	19.06	19.12	18.44
		1860 (26140)	18.94	19.00	19.05	18.38

LTE Band25 ANT5_D

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	20.84	21.02	21.02	18.54
		1882.5 (26365)	20.94	20.91	21.19	18.41
		1850.7 (26047)	21.09	21.20	21.29	18.54
	1RB-Middle (3)	1914.3 (26683)	20.88	21.12	21.11	18.68
		1882.5 (26365)	20.95	21.02	21.07	18.54
		1850.7 (26047)	21.15	21.33	21.41	18.37
	1RB-Low (0)	1914.3 (26683)	20.79	20.73	20.97	18.54
		1882.5 (26365)	20.97	21.02	21.13	18.38
		1850.7 (26047)	21.08	21.08	21.34	18.43
	3RB-High (3)	1914.3 (26683)	20.90	20.81	20.94	18.52
		1882.5 (26365)	20.94	20.74	21.07	18.36
		1850.7 (26047)	21.22	21.05	21.26	18.56
	3RB-Middle (1)	1914.3 (26683)	20.87	20.68	20.98	18.57
		1882.5 (26365)	21.04	20.91	21.04	18.42
		1850.7 (26047)	21.12	20.97	21.29	18.69
	3RB-Low (0)	1914.3 (26683)	20.88	20.77	20.99	18.40
		1882.5 (26365)	21.00	20.77	21.02	18.36
		1850.7 (26047)	21.11	20.93	21.18	18.49
	6RB (0)	1914.3 (26683)	20.96	20.70	20.99	18.37
		1882.5 (26365)	21.02	20.79	21.10	18.46
		1850.7 (26047)	21.15	20.94	21.18	18.37
3MHz	1RB-High (14)	1913.5 (26675)	20.94	20.89	21.07	18.66
		1882.5 (26365)	21.00	20.99	21.11	18.44
		1851.5 (26055)	21.09	20.96	21.32	18.43
	1RB-Middle (7)	1913.5 (26675)	20.97	21.13	21.07	18.51
		1882.5 (26365)	20.98	21.09	21.35	18.58
		1851.5 (26055)	21.17	21.31	21.46	18.55
	1RB-Low (0)	1913.5 (26675)	20.86	20.82	21.24	18.65
		1882.5 (26365)	20.90	20.91	21.17	18.43
		1851.5 (26055)	21.06	21.22	21.16	18.66
	8RB-High (7)	1913.5 (26675)	20.94	20.67	20.99	18.41
		1882.5 (26365)	20.96	20.78	21.08	18.65
		1851.5 (26055)	21.22	20.97	21.19	18.40
	8RB-Middle (4)	1913.5 (26675)	20.93	20.72	20.99	18.44
		1882.5 (26365)	20.98	20.78	21.11	18.37
		1851.5 (26055)	21.24	20.96	21.31	18.40
	8RB-Low (0)	1913.5 (26675)	20.89	20.63	20.98	18.60
		1882.5 (26365)	21.03	20.86	21.03	18.57
		1851.5 (26055)	21.20	20.98	21.28	18.49
	15RB (0)	1913.5 (26675)	21.00	20.60	20.98	18.48
		1882.5 (26365)	21.07	20.82	21.04	18.58
		1851.5 (26055)	21.22	20.90	21.26	18.48

5MHz	1RB-High (24)	1912.5 (26665)	20.86	20.90	21.01	18.47
		1882.5 (26365)	20.95	21.02	21.01	18.43
		1852.5 (26065)	21.04	21.25	21.27	18.69
	1RB-Middle (12)	1912.5 (26665)	20.91	20.86	21.07	18.42
		1882.5 (26365)	21.03	21.06	21.16	18.35
		1852.5 (26065)	21.12	21.30	21.39	18.48
	1RB-Low (0)	1912.5 (26665)	20.85	20.89	20.80	18.62
		1882.5 (26365)	20.90	21.13	21.06	18.40
		1852.5 (26065)	21.17	21.12	21.26	18.45
	12RB-High (13)	1912.5 (26665)	20.96	20.69	20.99	18.36
		1882.5 (26365)	21.03	20.77	21.04	18.38
		1852.5 (26065)	21.15	20.98	21.11	18.47
	12RB-Middle (6)	1912.5 (26665)	20.94	20.65	20.94	18.57
		1882.5 (26365)	21.07	20.76	21.01	18.44
		1852.5 (26065)	21.20	21.03	21.20	18.58
	12RB-Low (0)	1912.5 (26665)	20.84	20.54	20.83	18.57
		1882.5 (26365)	21.02	20.81	21.03	18.35
		1852.5 (26065)	21.16	20.99	21.16	18.55
	25RB (0)	1912.5 (26665)	20.86	20.59	20.78	18.70
		1882.5 (26365)	21.05	20.71	21.04	18.47
		1852.5 (26065)	21.25	20.96	21.27	18.69
10MHz	1RB-High (49)	1910 (26640)	20.89	20.98	21.11	18.56
		1882.5 (26365)	20.95	20.88	21.25	18.36
		1855 (26090)	21.11	21.11	21.21	18.42
	1RB-Middle (24)	1910 (26640)	20.96	20.81	21.21	18.43
		1882.5 (26365)	21.07	21.07	21.06	18.68
		1855 (26090)	21.22	21.15	21.28	18.65
	1RB-Low (0)	1910 (26640)	20.99	20.70	20.82	18.45
		1882.5 (26365)	20.96	21.13	21.16	18.53
		1855 (26090)	21.12	21.18	21.20	18.66
	25RB-High (25)	1910 (26640)	20.93	20.71	21.02	18.67
		1882.5 (26365)	21.05	20.78	21.07	18.58
		1855 (26090)	21.20	20.97	21.17	18.38
	25RB-Middle (12)	1910 (26640)	20.99	20.69	20.97	18.60
		1882.5 (26365)	21.08	20.79	21.10	18.62
		1855 (26090)	21.26	20.93	21.22	18.63
	25RB-Low (0)	1910 (26640)	20.95	20.65	20.97	18.64
		1882.5 (26365)	20.90	20.76	20.99	18.59
		1855 (26090)	21.17	20.93	21.22	18.53
	50RB (0)	1910 (26640)	20.93	20.63	20.92	18.64
		1882.5 (26365)	20.88	20.62	21.03	18.65
		1855 (26090)	21.15	20.95	21.22	18.40

15MHz	1RB-High (74)	1907.5 (26615)	20.57	20.61	20.70	18.40
		1882.5 (26365)	20.87	20.85	20.89	18.45
		1857.5 (26115)	20.95	20.89	21.00	18.50
	1RB-Middle (37)	1907.5 (26615)	20.77	20.79	20.70	18.56
		1882.5 (26365)	20.83	20.93	20.91	18.50
		1857.5 (26115)	20.99	20.97	21.06	18.60
	1RB-Low (0)	1907.5 (26615)	20.67	20.68	20.75	18.56
		1882.5 (26365)	20.81	20.62	21.01	18.36
		1857.5 (26115)	20.99	20.89	20.93	18.43
	36RB-High (38)	1907.5 (26615)	20.74	20.46	20.70	18.48
		1882.5 (26365)	20.89	20.51	20.85	18.69
		1857.5 (26115)	21.03	20.63	20.94	18.51
	36RB-Middle (19)	1907.5 (26615)	20.76	20.41	20.60	18.47
		1882.5 (26365)	20.80	20.44	20.79	18.62
		1857.5 (26115)	21.05	20.73	20.97	18.51
	36RB-Low (0)	1907.5 (26615)	20.63	20.28	20.70	18.39
		1882.5 (26365)	20.81	20.41	20.83	18.54
		1857.5 (26115)	21.06	20.76	20.98	18.52
	75RB (0)	1907.5 (26615)	20.68	20.32	20.66	18.70
		1882.5 (26365)	20.72	20.46	20.80	18.51
		1857.5 (26115)	21.00	20.69	20.91	18.67
20MHz	1RB-High (99)	1905 (26590)	20.83	20.77	20.88	18.54
		1882.5 (26365)	20.95	20.89	21.00	18.69
		1860 (26140)	20.84	20.78	20.89	18.59
	1RB-Middle (50)	1905 (26590)	20.86	20.80	20.91	18.61
		1882.5 (26365)	20.94	20.93	21.04	18.73
		1860 (26140)	20.87	20.81	20.92	18.62
	1RB-Low (0)	1905 (26590)	20.96	20.90	21.01	18.70
		1882.5 (26365)	20.94	20.88	20.99	18.68
		1860 (26140)	20.89	20.83	20.94	18.64
	50RB-High (50)	1905 (26590)	20.84	20.90	20.40	18.38
		1882.5 (26365)	21.03	21.09	20.59	18.55
		1860 (26140)	20.95	21.01	20.51	18.48
	50RB-Middle (25)	1905 (26590)	20.87	20.93	20.43	18.41
		1882.5 (26365)	21.04	21.10	20.60	18.56
		1860 (26140)	20.96	21.02	20.52	18.49
	50RB-Low (0)	1905 (26590)	20.86	20.92	20.42	18.40
		1882.5 (26365)	20.98	21.04	20.54	18.51
		1860 (26140)	20.95	21.01	20.51	18.48
	100RB (0)	1905 (26590)	20.85	20.91	20.41	18.39
		1882.5 (26365)	21.02	21.08	20.58	18.54
		1860 (26140)	20.95	21.01	20.51	18.48

LTE Band26 ANT2_A/B/C/D/E

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	848.3 (27033)	23.40	22.72	21.69	18.45
		831.5 (26865)	23.41	22.78	21.58	18.42
		814.7 (26697)	23.46	22.52	21.55	18.50
	1RB-Middle (3)	848.3 (27033)	23.39	22.55	21.54	18.53
		831.5 (26865)	23.42	22.79	21.57	18.53
		814.7 (26697)	23.39	22.75	21.74	18.49
	1RB-Low (0)	848.3 (27033)	23.37	22.65	21.60	18.58
		831.5 (26865)	23.43	22.74	21.72	18.36
		814.7 (26697)	23.35	22.78	21.61	18.54
	3RB-High (3)	848.3 (27033)	23.36	22.45	21.50	18.49
		831.5 (26865)	23.46	22.56	21.66	18.55
		814.7 (26697)	23.38	22.51	21.63	18.47
	3RB-Middle (1)	848.3 (27033)	23.41	22.48	21.55	18.35
		831.5 (26865)	23.40	22.61	21.74	18.56
		814.7 (26697)	23.43	22.46	21.65	18.35
	3RB-Low (0)	848.3 (27033)	23.34	22.48	21.60	18.60
		831.5 (26865)	23.43	22.66	21.65	18.59
		814.7 (26697)	23.40	22.56	21.59	18.35
	6RB (0)	848.3 (27033)	22.41	21.52	20.59	18.60
		831.5 (26865)	22.49	21.62	20.44	18.47
		814.7 (26697)	22.39	21.55	20.60	18.54
3MHz	1RB-High (14)	847.5 (27025)	23.39	22.64	21.57	18.47
		831.5 (26865)	23.38	22.84	21.51	18.36
		815.5 (26705)	23.55	22.89	21.37	18.49
	1RB-Middle (7)	847.5 (27025)	23.49	22.73	21.56	18.56
		831.5 (26865)	23.49	22.94	21.98	18.37
		815.5 (26705)	23.49	22.95	21.93	18.52
	1RB-Low (0)	847.5 (27025)	23.29	22.62	21.62	18.39
		831.5 (26865)	23.35	22.80	21.60	18.45
		815.5 (26705)	23.36	22.81	21.62	18.48
	8RB-High (7)	847.5 (27025)	22.47	21.50	20.55	18.55
		831.5 (26865)	22.50	21.59	20.64	18.47
		815.5 (26705)	22.46	21.64	20.33	18.44
	8RB-Middle (4)	847.5 (27025)	22.50	21.49	20.59	18.57
		831.5 (26865)	22.53	21.59	20.70	18.56
		815.5 (26705)	22.44	22.44	20.31	18.55
	8RB-Low (0)	847.5 (27025)	22.34	21.45	20.55	18.43
		831.5 (26865)	22.39	21.49	20.56	18.57
		815.5 (26705)	22.49	21.42	20.49	18.54
	15RB (0)	847.5 (27025)	22.48	21.48	20.62	18.60
		831.5 (26865)	22.39	21.53	20.56	18.57
		815.5 (26705)	22.43	21.44	20.52	18.37

5MHz	1RB-High (24)	846.5 (27015)	23.40	22.59	21.54	18.58
		831.5 (26865)	23.43	22.96	21.58	18.48
		816.5 (26715)	23.36	22.73	21.63	18.58
	1RB-Middle (12)	846.5 (27015)	23.50	22.91	21.64	18.54
		831.5 (26865)	23.48	22.75	21.70	18.45
		816.5 (26715)	23.43	22.75	21.68	18.46
	1RB-Low (0)	846.5 (27015)	23.35	22.67	21.71	18.45
		831.5 (26865)	23.43	22.78	21.66	18.36
		816.5 (26715)	23.32	22.62	21.70	18.55
	12RB-High (13)	846.5 (27015)	22.52	21.52	20.59	18.42
		831.5 (26865)	22.49	21.52	20.67	18.38
		816.5 (26715)	22.46	21.45	20.57	18.48
	12RB-Middle (6)	846.5 (27015)	22.35	21.46	20.53	18.57
		831.5 (26865)	22.44	21.48	20.57	18.46
		816.5 (26715)	22.50	21.55	20.69	18.41
	12RB-Low (0)	846.5 (27015)	22.37	21.45	20.56	18.56
		831.5 (26865)	22.42	21.44	20.48	18.35
		816.5 (26715)	22.41	21.49	20.48	18.45
	25RB (0)	846.5 (27015)	22.39	21.40	20.47	18.43
		831.5 (26865)	22.42	21.37	20.51	18.60
		816.5 (26715)	22.46	21.53	20.57	18.60
10MHz	1RB-High (49)	844 (26990)	23.44	22.77	21.55	18.57
		831.5 (26865)	23.44	22.74	21.55	18.60
		820 (26750)	23.41	22.97	21.58	18.45
	1RB-Middle (24)	844 (26990)	23.40	22.71	21.71	18.46
		831.5 (26865)	23.42	22.92	21.81	18.41
		820 (26750)	23.43	22.73	21.72	18.36
	1RB-Low (0)	844 (26990)	23.46	22.71	21.71	18.37
		831.5 (26865)	23.47	22.95	21.64	18.45
		820 (26750)	23.45	22.76	21.70	18.45
	25RB-High (25)	844 (26990)	22.47	21.56	20.66	18.38
		831.5 (26865)	22.44	21.46	20.57	18.41
		820 (26750)	22.52	21.50	20.52	18.47
	25RB-Middle (12)	844 (26990)	22.40	21.39	20.50	18.39
		831.5 (26865)	22.46	21.50	20.60	18.43
		820 (26750)	22.53	21.59	20.63	18.36
	25RB-Low (0)	844 (26990)	22.42	21.52	20.55	18.39
		831.5 (26865)	22.41	21.43	20.60	18.43
		820 (26750)	22.43	21.47	20.57	18.56
	50RB (0)	844 (26990)	22.39	21.49	20.50	18.56
		831.5 (26865)	22.39	21.41	20.58	18.39
		820 (26750)	22.48	21.50	20.64	18.48

15MHz	1RB-High (74)	841.5 (26965)	23.21	22.46	21.52	18.45
		831.5 (26865)	23.09	22.37	21.21	18.57
		822.5 (26775)	23.22	22.49	21.56	18.57
	1RB-Middle (37)	841.5 (26965)	23.28	22.46	21.43	18.45
		831.5 (26865)	23.22	22.57	21.54	18.36
		822.5 (26775)	23.19	22.78	21.44	18.60
	1RB-Low (0)	841.5 (26965)	23.28	22.66	21.46	18.59
		831.5 (26865)	23.30	22.51	21.48	18.58
		822.5 (26775)	23.25	22.49	21.33	18.59
	36RB-High (38)	841.5 (26965)	22.30	21.33	20.40	18.38
		831.5 (26865)	22.32	21.37	20.44	18.53
		822.5 (26775)	22.32	21.40	20.44	18.54
	36RB-Middle (19)	841.5 (26965)	22.33	21.37	20.46	18.59
		831.5 (26865)	22.21	21.23	20.43	18.42
		822.5 (26775)	22.39	21.37	20.48	18.60
	36RB-Low (0)	841.5 (26965)	22.25	21.35	20.36	18.41
		831.5 (26865)	22.31	21.31	20.51	18.57
		822.5 (26775)	22.28	21.37	20.48	18.58
	75RB (0)	841.5 (26965)	22.29	21.43	20.42	18.53
		831.5 (26865)	22.29	21.27	20.39	18.54
		822.5 (26775)	22.35	21.43	20.54	18.47

LTE Band41 PC2 ANT5_E

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	25.12	24.56	23.36	20.24
		2640.3(41093)	25.65	25.04	23.83	20.19
		2593 (40620)	25.66	24.99	23.90	20.46
		2545.8(40148)	25.11	24.54	23.21	20.30
		2498.5 (39675)	25.26	24.72	23.60	20.46
	1RB-Middle (12)	2687.5 (41565)	25.24	24.62	23.59	20.23
		2640.3(41093)	25.69	25.17	23.88	20.27
		2593 (40620)	25.64	25.01	23.73	20.55
		2545.8(40148)	25.13	24.54	23.43	20.22
		2498.5 (39675)	25.46	24.85	23.75	20.24
	1RB-Low (0)	2687.5 (41565)	25.23	24.72	23.64	20.46
		2640.3(41093)	25.67	25.15	23.92	20.34
		2593 (40620)	25.49	24.89	23.62	20.30
		2545.8(40148)	25.06	24.45	23.24	20.39
		2498.5 (39675)	25.63	25.01	23.89	20.36
	12RB-High (13)	2687.5 (41565)	24.29	23.34	22.35	20.23
		2640.3(41093)	24.82	23.79	22.89	20.17
		2593 (40620)	24.75	23.78	22.78	20.50
		2545.8(40148)	24.16	23.25	22.25	20.54
		2498.5 (39675)	24.46	23.51	22.62	20.51
	12RB-Middle (6)	2687.5 (41565)	24.34	23.41	22.41	20.55
		2640.3(41093)	24.77	23.85	22.83	20.36
		2593 (40620)	24.73	23.81	22.85	20.39
		2545.8(40148)	24.21	23.29	22.39	20.16
		2498.5 (39675)	24.63	23.62	22.71	20.20
	12RB-Low (0)	2687.5 (41565)	24.35	23.37	22.50	20.20
		2640.3(41093)	24.72	23.70	22.80	20.48
		2593 (40620)	24.59	23.66	22.64	20.54
		2545.8(40148)	24.10	23.21	22.16	20.55
		2498.5 (39675)	24.68	23.77	22.81	20.28
	25RB (0)	2687.5 (41565)	24.31	23.40	22.40	20.22
		2640.3(41093)	24.72	23.71	22.82	20.41
		2593 (40620)	24.70	23.71	22.80	20.20
		2545.8(40148)	24.16	23.17	22.26	20.38
		2498.5 (39675)	24.59	23.58	22.67	20.36

10MHz	1RB-High (49)	2685 (41540)	25.18	24.51	23.33	20.27
		2639(41080)	25.72	25.05	23.78	20.31
		2593 (40620)	25.66	25.02	23.96	20.41
		2547(40160)	25.17	24.47	23.44	20.47
		2501 (39700)	25.04	24.37	23.82	20.17
	1RB-Middle (24)	2685 (41540)	25.37	24.76	23.64	20.31
		2639(41080)	25.77	25.09	23.93	20.47
		2593 (40620)	25.67	24.97	23.93	20.31
		2547(40160)	25.21	24.51	23.33	20.51
		2501 (39700)	25.31	24.54	24.27	20.20
	1RB-Low (0)	2685 (41540)	25.41	24.77	23.58	20.49
		2639(41080)	25.73	25.03	23.89	20.49
		2593 (40620)	25.47	24.79	23.55	20.19
		2547(40160)	25.08	24.52	23.22	20.48
		2501 (39700)	25.67	24.88	23.68	20.39
	25RB-High (25)	2685 (41540)	24.40	23.46	22.47	20.50
		2639(41080)	24.89	23.84	22.85	20.44
		2593 (40620)	24.78	23.80	22.71	20.16
		2547(40160)	24.22	23.28	22.33	20.24
		2501 (39700)	24.17	23.21	23.07	20.28
	25RB-Middle (12)	2685 (41540)	24.45	23.40	22.57	20.43
		2639(41080)	24.88	23.94	22.76	20.43
		2593 (40620)	24.79	23.73	22.73	20.39
		2547(40160)	24.21	23.24	22.25	20.30
		2501 (39700)	24.37	23.48	22.27	20.19
	25RB-Low (0)	2685 (41540)	24.45	23.51	22.56	20.50
		2639(41080)	24.78	23.85	22.76	20.52
		2593 (40620)	24.62	23.66	22.58	20.39
		2547(40160)	24.19	23.20	22.17	20.18
		2501 (39700)	24.56	23.59	22.48	20.17
	50RB (0)	2685 (41540)	24.39	23.39	22.51	20.42
		2639(41080)	24.90	23.84	22.76	20.48
		2593 (40620)	24.69	23.65	22.63	20.50
		2547(40160)	24.26	23.26	22.20	20.34
		2501 (39700)	24.41	23.43	22.25	20.30

15MHz	1RB-High (74)	2682.5 (41515)	25.09	24.43	23.26	20.22
		2637.8(41068)	25.60	25.16	23.71	20.53
		2593 (40620)	25.51	24.94	23.89	20.29
		2548.3(40173)	25.15	24.37	23.37	20.47
		2503.5 (39725)	25.54	24.88	23.75	20.33
	1RB-Middle (37)	2682.5 (41515)	25.24	24.47	23.57	20.35
		2637.8(41068)	25.64	25.01	23.86	20.22
		2593 (40620)	25.43	24.92	23.86	20.35
		2548.3(40173)	25.07	24.37	23.26	20.45
		2503.5 (39725)	25.95	25.35	24.20	20.29
	1RB-Low (0)	2682.5 (41515)	25.38	24.73	23.51	20.45
		2637.8(41068)	25.57	24.90	23.82	20.48
		2593 (40620)	25.33	24.88	23.48	20.36
		2548.3(40173)	25.04	24.29	23.15	20.55
		2503.5 (39725)	25.42	24.83	23.61	20.38
	36RB-High (38)	2682.5 (41515)	24.26	23.32	22.40	20.30
		2637.8(41068)	24.74	23.71	22.78	20.49
		2593 (40620)	24.62	23.65	22.64	20.52
		2548.3(40173)	24.13	23.18	22.26	20.24
		2503.5 (39725)	24.89	23.95	23.00	20.53
	36RB-Middle (19)	2682.5 (41515)	24.35	23.41	22.50	20.34
		2637.8(41068)	24.64	23.67	22.69	20.24
		2593 (40620)	24.58	23.63	22.66	20.33
		2548.3(40173)	24.10	23.12	22.18	20.30
		2503.5 (39725)	24.10	23.13	22.20	20.47
	36RB-Low (0)	2682.5 (41515)	24.37	23.44	22.49	20.26
		2637.8(41068)	24.69	23.67	22.69	20.28
		2593 (40620)	24.44	23.47	22.51	20.17
		2548.3(40173)	24.01	23.00	22.10	20.20
		2503.5 (39725)	24.28	23.34	22.41	20.33
	75RB (0)	2682.5 (41515)	24.37	23.38	22.44	20.21
		2637.8(41068)	24.66	23.66	22.69	20.29
		2593 (40620)	24.50	23.55	22.56	20.18
		2548.3(40173)	24.14	23.15	22.13	20.17
		2503.5 (39725)	24.13	23.10	22.18	20.47

20MHz	1RB-High (99)	2680 (41490)	25.12	24.31	23.31	20.36
		2636.5(41055)	25.54	25.03	23.81	20.24
		2593 (40620)	25.57	24.90	23.85	20.25
		2549.5(40185)	25.20	24.50	23.47	20.47
		2506 (39750)	25.40	24.74	23.66	20.55
	1RB-Middle (50)	2680 (41490)	25.24	24.71	23.55	20.16
		2636.5(41055)	25.55	24.98	23.92	20.26
		2593 (40620)	25.46	24.81	23.77	20.46
		2549.5(40185)	25.04	24.26	23.24	20.18
		2506 (39750)	25.82	25.09	24.29	20.24
	1RB-Low (0)	2680 (41490)	25.46	24.90	23.80	20.15
		2636.5(41055)	25.66	25.02	23.81	20.23
		2593 (40620)	25.20	24.58	23.63	20.50
		2549.5(40185)	25.04	24.29	23.19	20.42
		2506 (39750)	25.37	24.83	23.71	20.16
	50RB-High (50)	2680 (41490)	24.27	23.34	22.43	20.47
		2636.5(41055)	24.76	23.73	22.79	20.30
		2593 (40620)	24.62	23.64	22.70	20.54
		2549.5(40185)	24.20	23.18	22.24	20.32
		2506 (39750)	24.67	23.71	22.77	20.51
	50RB-Middle (25)	2680 (41490)	24.33	23.37	22.45	20.47
		2636.5(41055)	24.66	23.66	22.77	20.27
		2593 (40620)	24.53	23.54	22.65	20.27
		2549.5(40185)	24.14	23.12	22.23	20.50
		2506 (39750)	24.98	24.01	23.10	20.25
	50RB-Low (0)	2680 (41490)	24.44	23.47	22.58	20.18
		2636.5(41055)	24.67	23.67	22.81	20.18
		2593 (40620)	24.41	23.42	22.56	20.43
		2549.5(40185)	24.06	23.06	22.16	20.38
		2506 (39750)	24.21	23.24	22.34	20.16
	100RB (0)	2680 (41490)	24.32	23.37	22.46	20.22
		2636.5(41055)	24.63	23.69	22.76	20.17
		2593 (40620)	24.50	23.51	22.60	20.54
		2549.5(40185)	24.13	23.16	22.27	20.15
		2506 (39750)	24.02	23.00	22.17	20.37

LTE Band41 PC2 ANT5_A/B/C

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	20.92	21.16	20.97	20.47
		2640.3(41093)	21.22	21.54	21.30	20.42
		2593 (40620)	20.95	21.20	21.10	20.66
		2545.8(40148)	20.66	20.95	20.80	20.70
		2498.5 (39675)	21.25	21.70	21.39	20.38
	1RB-Middle (12)	2687.5 (41565)	21.07	21.35	21.15	20.40
		2640.3(41093)	21.26	21.67	21.39	20.66
		2593 (40620)	21.01	21.31	21.16	20.48
		2545.8(40148)	20.64	21.03	20.90	20.37
		2498.5 (39675)	21.45	21.80	21.70	20.60
	1RB-Low (0)	2687.5 (41565)	21.02	21.27	21.25	20.60
		2640.3(41093)	21.22	21.43	21.30	20.39
		2593 (40620)	20.84	21.11	20.99	20.48
		2545.8(40148)	20.53	20.99	20.68	20.46
		2498.5 (39675)	21.62	21.90	21.83	20.69
	12RB-High (13)	2687.5 (41565)	21.01	20.98	21.04	20.42
		2640.3(41093)	21.30	21.38	21.19	20.50
		2593 (40620)	20.98	20.92	20.97	20.37
		2545.8(40148)	20.67	20.68	20.71	20.66
		2498.5 (39675)	21.42	21.49	21.42	20.65
	12RB-Middle (6)	2687.5 (41565)	21.06	21.13	21.12	20.66
		2640.3(41093)	21.25	21.34	21.34	20.38
		2593 (40620)	21.04	21.21	21.00	20.43
		2545.8(40148)	20.72	20.81	20.74	20.58
		2498.5 (39675)	21.59	21.67	21.49	20.56
	12RB-Low (0)	2687.5 (41565)	21.05	21.09	20.98	20.52
		2640.3(41093)	21.23	21.26	21.20	20.61
		2593 (40620)	20.90	20.94	20.87	20.50
		2545.8(40148)	20.63	20.67	20.68	20.37
		2498.5 (39675)	21.61	21.71	21.60	20.68
	25RB (0)	2687.5 (41565)	21.03	21.02	21.00	20.63
		2640.3(41093)	21.23	21.24	21.21	20.70
		2593 (40620)	20.95	20.94	21.00	20.36
		2545.8(40148)	20.67	20.78	20.71	20.69
		2498.5 (39675)	21.54	21.55	21.52	20.41

10MHz	1RB-High (49)	2685 (41540)	20.96	21.34	21.04	20.36
		2639(41080)	21.29	21.46	21.37	20.63
		2593 (40620)	20.98	21.23	21.20	20.55
		2547(40160)	20.64	20.95	20.80	20.39
		2501 (39700)	21.05	21.43	21.20	20.57
	1RB-Middle (24)	2685 (41540)	21.12	21.41	21.28	20.40
		2639(41080)	21.32	21.60	21.38	20.61
		2593 (40620)	20.97	21.27	20.98	20.50
		2547(40160)	20.66	21.01	20.82	20.62
		2501 (39700)	21.27	21.50	21.37	20.50
	1RB-Low (0)	2685 (41540)	21.13	21.33	21.21	20.55
		2639(41080)	21.24	21.51	21.38	20.65
		2593 (40620)	20.91	21.15	21.03	20.56
		2547(40160)	20.56	20.77	20.86	20.51
		2501 (39700)	21.68	21.79	21.80	20.39
	25RB-High (25)	2685 (41540)	21.06	21.06	21.04	20.44
		2639(41080)	21.31	21.36	21.29	20.46
		2593 (40620)	21.05	21.04	21.05	20.50
		2547(40160)	20.76	20.80	20.79	20.55
		2501 (39700)	21.23	21.23	21.19	20.41
	25RB-Middle (12)	2685 (41540)	21.06	21.01	21.01	20.58
		2639(41080)	21.28	21.28	21.26	20.62
		2593 (40620)	21.05	21.06	21.03	20.56
		2547(40160)	20.77	20.76	20.79	20.55
		2501 (39700)	21.33	21.32	21.37	20.54
	25RB-Low (0)	2685 (41540)	21.11	21.10	21.09	20.49
		2639(41080)	21.27	21.26	21.20	20.63
		2593 (40620)	20.97	20.93	20.90	20.38
		2547(40160)	20.58	20.66	20.62	20.65
		2501 (39700)	21.50	21.55	21.47	20.50
	50RB (0)	2685 (41540)	21.04	21.05	21.01	20.65
		2639(41080)	21.26	21.29	21.22	20.57
		2593 (40620)	21.00	21.02	20.99	20.64
		2547(40160)	20.66	20.69	20.70	20.69
		2501 (39700)	21.32	21.31	21.30	20.35

15MHz	1RB-High (74)	2682.5 (41515)	20.79	21.03	21.00	20.66
		2637.8(41068)	21.07	21.42	21.18	20.36
		2593 (40620)	20.82	21.08	20.87	20.56
		2548.3(40173)	20.53	20.85	20.69	20.40
		2503.5 (39725)	20.68	20.92	20.83	20.49
	1RB-Middle (37)	2682.5 (41515)	20.92	21.20	21.14	20.65
		2637.8(41068)	21.06	21.32	21.18	20.36
		2593 (40620)	20.74	20.98	20.84	20.41
		2548.3(40173)	20.45	20.79	20.58	20.43
		2503.5 (39725)	20.96	21.26	21.04	20.60
	1RB-Low (0)	2682.5 (41515)	21.02	21.38	21.08	20.50
		2637.8(41068)	21.12	21.46	21.10	20.38
		2593 (40620)	20.70	20.94	20.84	20.38
		2548.3(40173)	20.43	20.62	20.51	20.69
		2503.5 (39725)	21.37	21.60	21.66	20.47
	36RB-High (38)	2682.5 (41515)	20.88	20.94	20.86	20.57
		2637.8(41068)	21.17	21.17	21.16	20.60
		2593 (40620)	20.86	20.85	20.84	20.68
		2548.3(40173)	20.57	20.58	20.57	20.63
		2503.5 (39725)	20.81	20.86	20.87	20.44
	36RB-Middle (19)	2682.5 (41515)	21.00	21.02	20.98	20.69
		2637.8(41068)	21.16	21.18	21.13	20.47
		2593 (40620)	20.83	20.82	20.83	20.66
		2548.3(40173)	20.51	20.56	20.52	20.35
		2503.5 (39725)	21.04	21.05	21.05	20.48
	36RB-Low (0)	2682.5 (41515)	21.00	21.00	20.95	20.48
		2637.8(41068)	21.08	21.08	21.02	20.69
		2593 (40620)	20.72	20.73	20.74	20.62
		2548.3(40173)	20.49	20.52	20.47	20.68
		2503.5 (39725)	21.16	21.19	21.22	20.64
	75RB (0)	2682.5 (41515)	20.99	21.00	21.00	20.69
		2637.8(41068)	21.17	21.17	21.12	20.57
		2593 (40620)	20.81	20.82	20.83	20.60
		2548.3(40173)	20.53	20.57	20.53	20.54
		2503.5 (39725)	21.05	21.04	21.05	20.56

20MHz	1RB-High (99)	2680 (41490)	20.79	21.15	20.91	20.53
		2636.5(41055)	21.11	21.49	21.17	20.42
		2593 (40620)	20.87	21.17	21.01	20.35
		2549.5(40185)	20.33	20.61	20.42	20.42
		2506 (39750)	20.48	20.71	20.67	20.57
	1RB-Middle (50)	2680 (41490)	20.91	21.24	21.04	20.47
		2636.5(41055)	21.06	21.41	21.24	20.56
		2593 (40620)	20.79	21.00	20.83	20.56
		2549.5(40185)	20.49	20.75	20.66	20.65
		2506 (39750)	20.81	21.17	20.94	20.43
	1RB-Low (0)	2680 (41490)	21.10	21.34	21.02	20.67
		2636.5(41055)	21.12	21.43	21.23	20.53
		2593 (40620)	20.92	21.07	20.83	20.70
		2549.5(40185)	20.53	20.74	20.51	20.48
		2506 (39750)	21.05	21.69	21.54	20.36
	50RB-High (50)	2680 (41490)	20.90	20.97	20.90	20.36
		2636.5(41055)	21.14	21.16	21.14	20.45
		2593 (40620)	20.86	20.89	20.90	20.68
		2549.5(40185)	20.50	20.50	20.51	20.63
		2506 (39750)	20.72	20.77	20.74	20.53
	50RB-Middle (25)	2680 (41490)	21.01	21.00	21.02	20.43
		2636.5(41055)	21.19	21.21	21.16	20.39
		2593 (40620)	20.88	20.84	20.86	20.62
		2549.5(40185)	20.56	20.58	20.58	20.62
		2506 (39750)	21.05	20.96	20.94	20.36
	50RB-Low (0)	2680 (41490)	20.99	21.00	21.03	20.63
		2636.5(41055)	21.10	21.11	21.11	20.41
		2593 (40620)	20.73	20.76	20.73	20.37
		2549.5(40185)	20.48	20.51	20.46	20.53
		2506 (39750)	21.01	21.12	21.14	20.40
	100RB (0)	2680 (41490)	20.91	20.93	20.97	20.48
		2636.5(41055)	21.15	21.20	21.16	20.46
		2593 (40620)	20.86	20.82	20.84	20.60
		2549.5(40185)	20.52	20.53	20.51	20.61
		2506 (39750)	20.91	20.93	20.94	20.36

LTE Band41 PC2 ANT5_D

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	18.99	19.02	18.85	18.91
		2640.3(41093)	19.27	19.35	19.19	19.06
		2593 (40620)	18.60	18.87	18.59	19.31
		2545.8(40148)	18.21	18.22	18.20	19.26
		2498.5 (39675)	19.02	19.03	18.90	18.93
	1RB-Middle (12)	2687.5 (41565)	19.08	19.16	18.92	19.31
		2640.3(41093)	19.26	19.44	19.26	19.08
		2593 (40620)	18.68	18.87	18.59	19.13
		2545.8(40148)	18.25	18.32	18.16	19.07
		2498.5 (39675)	19.23	19.19	19.14	19.17
	1RB-Low (0)	2687.5 (41565)	19.06	19.16	18.94	19.05
		2640.3(41093)	19.18	19.30	18.89	19.10
		2593 (40620)	18.56	18.78	18.53	18.97
		2545.8(40148)	18.07	18.22	18.11	18.91
		2498.5 (39675)	19.36	19.47	19.38	18.98
	12RB-High (13)	2687.5 (41565)	19.05	18.88	18.89	19.31
		2640.3(41093)	19.26	19.18	19.06	19.08
		2593 (40620)	18.72	18.57	18.49	19.32
		2545.8(40148)	18.19	18.22	18.08	19.25
		2498.5 (39675)	19.13	18.92	19.03	18.96
	12RB-Middle (6)	2687.5 (41565)	19.11	18.88	18.85	19.24
		2640.3(41093)	19.22	19.09	18.96	19.23
		2593 (40620)	18.76	18.58	18.54	19.23
		2545.8(40148)	18.27	18.04	18.07	18.91
		2498.5 (39675)	19.31	18.86	19.11	18.97
	12RB-Low (0)	2687.5 (41565)	19.09	18.90	18.84	19.07
		2640.3(41093)	19.16	19.00	18.97	19.16
		2593 (40620)	18.64	18.28	18.29	19.23
		2545.8(40148)	18.15	18.25	18.10	18.91
		2498.5 (39675)	19.35	19.19	19.06	19.02
	25RB (0)	2687.5 (41565)	19.06	18.82	18.74	19.23
		2640.3(41093)	19.18	18.97	18.94	18.93
		2593 (40620)	18.70	18.54	18.52	19.33
		2545.8(40148)	18.22	18.27	18.01	19.26
		2498.5 (39675)	19.21	18.98	19.00	18.97

10MHz	1RB-High (49)	2685 (41540)	18.93	18.98	18.79	19.19
		2639(41080)	19.18	19.40	19.10	19.02
		2593 (40620)	18.72	18.85	18.78	18.95
		2547(40160)	18.19	18.33	18.07	19.26
		2501 (39700)	18.78	18.83	18.73	19.00
	1RB-Middle (24)	2685 (41540)	19.08	19.25	19.07	18.97
		2639(41080)	19.28	19.42	19.09	19.21
		2593 (40620)	18.72	18.81	18.60	19.19
		2547(40160)	18.26	18.39	18.08	18.95
		2501 (39700)	18.96	19.23	18.81	19.05
	1RB-Low (0)	2685 (41540)	19.10	19.12	19.20	18.91
		2639(41080)	19.19	19.35	19.16	18.98
		2593 (40620)	18.58	18.62	18.49	19.21
		2547(40160)	18.18	18.23	18.28	19.10
		2501 (39700)	19.35	19.43	19.22	18.98
	25RB-High (25)	2685 (41540)	19.01	18.89	18.88	19.23
		2639(41080)	19.26	19.09	19.09	19.16
		2593 (40620)	18.72	18.54	18.56	19.03
		2547(40160)	18.28	18.07	18.09	19.22
		2501 (39700)	18.87	18.70	18.75	18.95
	25RB-Middle (12)	2685 (41540)	19.03	18.88	18.93	19.06
		2639(41080)	19.20	19.04	19.05	19.32
		2593 (40620)	18.71	18.51	18.56	18.93
		2547(40160)	18.29	18.08	18.09	19.06
		2501 (39700)	19.06	18.86	18.83	19.28
	25RB-Low (0)	2685 (41540)	19.03	18.92	18.90	18.91
		2639(41080)	19.13	18.95	19.02	18.95
		2593 (40620)	18.57	18.44	18.43	19.23
		2547(40160)	18.14	18.29	18.24	19.10
		2501 (39700)	19.14	19.06	19.03	19.24
	50RB (0)	2685 (41540)	19.00	18.81	18.81	19.07
		2639(41080)	19.20	18.95	18.96	19.08
		2593 (40620)	18.66	18.53	18.50	19.27
		2547(40160)	18.17	18.22	18.00	18.95
		2501 (39700)	18.99	18.85	18.82	19.02

15MHz	1RB-High (74)	2682.5 (41515)	18.81	18.83	18.62	19.16
		2637.8(41068)	19.10	19.19	18.96	19.29
		2593 (40620)	18.77	18.81	18.63	19.16
		2548.3(40173)	18.16	18.26	18.12	19.07
		2503.5 (39725)	18.43	18.51	18.22	19.03
	1RB-Middle (37)	2682.5 (41515)	18.62	18.94	18.79	19.15
		2637.8(41068)	19.14	19.20	18.87	18.96
		2593 (40620)	18.61	18.59	18.55	18.93
		2548.3(40173)	18.22	18.25	18.10	18.93
		2503.5 (39725)	18.73	18.83	18.73	19.03
	1RB-Low (0)	2682.5 (41515)	18.57	19.10	18.96	19.12
		2637.8(41068)	19.12	19.17	19.10	19.18
		2593 (40620)	18.49	18.46	18.35	18.93
		2548.3(40173)	18.06	18.23	18.09	19.30
		2503.5 (39725)	19.19	19.22	18.94	19.19
	36RB-High (38)	2682.5 (41515)	18.73	18.75	18.71	19.31
		2637.8(41068)	19.13	18.97	18.96	19.15
		2593 (40620)	18.74	18.54	18.49	19.22
		2548.3(40173)	18.22	18.08	18.00	19.20
		2503.5 (39725)	18.68	18.50	18.42	19.32
	36RB-Middle (19)	2682.5 (41515)	18.68	18.74	18.79	19.27
		2637.8(41068)	19.17	18.97	18.97	19.01
		2593 (40620)	18.65	18.46	18.43	18.97
		2548.3(40173)	18.21	18.27	18.29	19.29
		2503.5 (39725)	18.80	18.63	18.59	18.96
	36RB-Low (0)	2682.5 (41515)	18.58	18.77	18.81	19.31
		2637.8(41068)	19.08	18.89	18.90	19.11
		2593 (40620)	18.51	18.35	18.34	18.99
		2548.3(40173)	18.16	18.33	18.36	18.97
		2503.5 (39725)	18.99	18.80	18.75	19.23
	75RB (0)	2682.5 (41515)	18.66	18.81	18.79	19.10
		2637.8(41068)	19.14	18.98	18.97	19.30
		2593 (40620)	18.65	18.44	18.49	18.99
		2548.3(40173)	18.16	18.39	18.34	19.29
		2503.5 (39725)	18.79	18.62	18.65	18.98

20MHz	1RB-High (99)	2680 (41490)	18.89	19.18	18.87	19.25
		2636.5(41055)	19.25	19.50	19.34	19.32
		2593 (40620)	18.98	19.32	19.03	19.11
		2549.5(40185)	18.49	18.71	18.68	19.04
		2506 (39750)	18.71	19.06	18.72	19.31
	1RB-Middle (50)	2680 (41490)	18.98	19.33	19.15	19.11
		2636.5(41055)	19.22	19.45	19.32	19.24
		2593 (40620)	18.91	19.19	19.00	19.28
		2549.5(40185)	18.73	19.08	18.72	19.25
		2506 (39750)	19.03	19.35	19.13	19.25
	1RB-Low (0)	2680 (41490)	19.23	19.61	19.26	18.91
		2636.5(41055)	19.33	19.60	19.28	19.18
		2593 (40620)	18.81	19.22	18.90	19.01
		2549.5(40185)	18.62	18.94	18.64	19.25
		2506 (39750)	19.24	19.78	19.58	19.04
	50RB-High (50)	2680 (41490)	19.00	19.02	19.07	19.05
		2636.5(41055)	19.28	19.35	19.31	19.09
		2593 (40620)	18.99	19.06	19.05	19.06
		2549.5(40185)	18.69	18.68	18.69	19.28
		2506 (39750)	18.88	18.97	18.93	19.01
	50RB-Middle (25)	2680 (41490)	19.02	19.06	19.04	18.99
		2636.5(41055)	19.30	19.41	19.37	19.16
		2593 (40620)	18.97	18.98	18.97	19.00
		2549.5(40185)	18.71	18.74	18.71	19.12
		2506 (39750)	19.07	19.12	19.13	19.04
	50RB-Low (0)	2680 (41490)	19.11	19.16	19.06	19.22
		2636.5(41055)	19.27	19.27	19.25	19.00
		2593 (40620)	18.85	18.88	18.85	19.24
		2549.5(40185)	18.65	18.70	18.67	19.04
		2506 (39750)	19.17	19.22	19.28	18.95
	100RB (0)	2680 (41490)	19.01	19.03	19.02	18.98
		2636.5(41055)	19.33	19.35	19.36	19.22
		2593 (40620)	18.97	18.98	18.95	19.22
		2549.5(40185)	18.72	18.68	18.70	19.29
		2506 (39750)	19.07	19.15	19.12	19.23

LTE Band41 PC3 ANT5_E

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	23.03	22.11	21.87	18.03
		2640.3(41093)	23.54	22.52	22.41	18.30
		2593 (40620)	23.55	22.53	22.36	18.28
		2545.8(40148)	23.15	22.18	21.84	18.19
		2498.5 (39675)	23.21	22.36	22.14	18.23
	1RB-Middle (12)	2687.5 (41565)	23.19	22.22	22.15	18.22
		2640.3(41093)	23.73	22.70	21.36	18.19
		2593 (40620)	23.63	22.55	22.41	18.13
		2545.8(40148)	23.17	22.31	21.91	18.22
		2498.5 (39675)	23.46	22.49	22.31	18.11
	1RB-Low (0)	2687.5 (41565)	23.16	22.19	22.03	18.04
		2640.3(41093)	23.56	22.51	22.22	18.23
		2593 (40620)	23.40	22.37	22.42	18.26
		2545.8(40148)	23.12	22.17	21.90	18.00
		2498.5 (39675)	23.56	22.63	22.33	18.07
	12RB-High (13)	2687.5 (41565)	22.15	21.15	21.16	18.22
		2640.3(41093)	22.67	21.58	21.36	18.08
		2593 (40620)	22.54	21.59	21.35	18.01
		2545.8(40148)	22.19	21.06	21.09	18.18
		2498.5 (39675)	22.34	21.46	21.32	18.28
	12RB-Middle (6)	2687.5 (41565)	22.24	21.32	21.16	18.07
		2640.3(41093)	22.61	21.61	21.36	18.20
		2593 (40620)	22.59	21.63	21.33	18.33
		2545.8(40148)	22.30	21.30	21.22	18.20
		2498.5 (39675)	22.47	21.57	21.22	18.26
	12RB-Low (0)	2687.5 (41565)	22.19	21.22	21.17	18.07
		2640.3(41093)	22.61	21.55	21.33	18.33
		2593 (40620)	22.41	21.39	21.38	18.05
		2545.8(40148)	22.19	21.10	20.99	18.27
		2498.5 (39675)	22.57	21.64	21.03	18.01
	25RB (0)	2687.5 (41565)	22.19	21.21	21.16	18.25
		2640.3(41093)	22.60	21.63	21.44	18.28
		2593 (40620)	22.54	21.54	21.43	18.12
		2545.8(40148)	22.27	21.27	21.01	18.10
		2498.5 (39675)	22.46	21.45	21.06	18.02

10MHz	1RB-High (49)	2685 (41540)	23.15	22.05	22.13	18.20
		2639(41080)	23.58	22.61	22.36	18.24
		2593 (40620)	23.55	22.66	22.35	18.11
		2547(40160)	23.20	22.32	21.96	18.33
		2501 (39700)	22.89	22.05	21.73	18.17
	1RB-Middle (24)	2685 (41540)	23.28	22.26	22.31	18.31
		2639(41080)	23.67	22.65	22.41	18.04
		2593 (40620)	23.60	22.51	22.29	18.18
		2547(40160)	23.24	22.35	21.98	18.18
		2501 (39700)	23.25	22.28	22.18	18.17
	1RB-Low (0)	2685 (41540)	23.32	22.43	22.40	18.04
		2639(41080)	23.60	22.63	22.43	18.28
		2593 (40620)	23.32	22.36	22.32	18.08
		2547(40160)	23.07	22.20	21.95	18.07
		2501 (39700)	23.48	22.59	22.30	18.35
	25RB-High (25)	2685 (41540)	22.24	21.23	21.27	18.12
		2639(41080)	22.67	21.68	21.46	18.04
		2593 (40620)	22.60	21.59	21.38	18.26
		2547(40160)	22.24	21.24	21.06	18.21
		2501 (39700)	22.10	21.10	21.12	18.14
	25RB-Middle (12)	2685 (41540)	22.27	21.23	21.21	18.19
		2639(41080)	22.74	21.74	21.17	18.11
		2593 (40620)	22.62	21.58	21.41	18.25
		2547(40160)	22.29	21.28	21.09	18.29
		2501 (39700)	22.28	21.31	21.32	18.11
	25RB-Low (0)	2685 (41540)	22.27	21.27	21.29	18.03
		2639(41080)	22.60	21.62	21.36	18.34
		2593 (40620)	22.47	21.43	21.43	18.23
		2547(40160)	22.18	21.21	21.06	18.31
		2501 (39700)	22.47	21.43	21.43	18.12
	50RB (0)	2685 (41540)	22.21	21.22	21.24	18.15
		2639(41080)	22.70	21.67	21.44	18.07
		2593 (40620)	22.48	21.46	21.48	18.30
		2547(40160)	22.28	21.25	21.00	18.09
		2501 (39700)	22.26	21.29	21.26	18.20

15MHz	1RB-High (74)	2682.5 (41515)	22.91	22.02	21.76	18.04
		2637.8(41068)	23.48	22.60	22.36	18.05
		2593 (40620)	23.41	22.45	22.40	18.27
		2548.3(40173)	23.19	22.15	21.91	18.33
		2503.5 (39725)	23.22	22.62	21.44	18.18
	1RB-Middle (37)	2682.5 (41515)	23.09	22.16	22.12	18.08
		2637.8(41068)	23.53	22.54	22.41	18.25
		2593 (40620)	23.33	22.35	22.15	18.28
		2548.3(40173)	23.08	22.19	21.88	18.34
		2503.5 (39725)	22.83	21.83	21.60	18.00
	1RB-Low (0)	2682.5 (41515)	23.27	22.32	22.27	18.29
		2637.8(41068)	23.45	22.54	22.44	18.08
		2593 (40620)	23.09	22.07	22.12	18.30
		2548.3(40173)	23.00	22.13	21.75	18.05
		2503.5 (39725)	23.30	22.38	22.31	18.28
	36RB-High (38)	2682.5 (41515)	22.06	21.08	21.09	18.29
		2637.8(41068)	22.50	21.48	21.41	18.21
		2593 (40620)	22.42	21.43	21.38	18.12
		2548.3(40173)	22.13	21.21	20.97	18.10
		2503.5 (39725)	21.76	20.74	20.75	18.34
	36RB-Middle (19)	2682.5 (41515)	22.16	21.19	21.17	18.05
		2637.8(41068)	22.43	21.45	21.48	18.12
		2593 (40620)	22.42	21.37	21.43	18.07
		2548.3(40173)	22.12	21.14	20.93	18.30
		2503.5 (39725)	21.94	20.95	20.95	18.17
	36RB-Low (0)	2682.5 (41515)	22.20	21.17	21.19	18.18
		2637.8(41068)	22.46	21.49	21.48	18.08
		2593 (40620)	22.23	21.19	21.21	18.10
		2548.3(40173)	22.03	21.07	20.89	18.04
		2503.5 (39725)	22.12	21.16	21.16	18.15
	75RB (0)	2682.5 (41515)	22.08	21.18	21.15	18.33
		2637.8(41068)	22.42	21.44	21.42	18.21
		2593 (40620)	22.30	21.29	21.30	18.22
		2548.3(40173)	22.16	21.19	20.83	18.02
		2503.5 (39725)	21.93	20.98	20.99	18.26

20MHz	1RB-High (99)	2680 (41490)	22.96	22.04	21.89	18.25
		2636.5(41055)	23.43	22.34	22.46	18.30
		2593 (40620)	23.39	22.41	22.24	18.23
		2549.5(40185)	23.13	22.09	21.76	18.02
		2506 (39750)	23.41	22.63	21.08	18.04
	1RB-Middle (50)	2680 (41490)	23.14	22.11	22.06	18.21
		2636.5(41055)	23.43	22.42	22.42	18.05
		2593 (40620)	23.29	22.39	22.31	18.30
		2549.5(40185)	23.02	22.07	21.68	18.04
		2506 (39750)	22.67	21.79	21.56	18.04
	1RB-Low (0)	2680 (41490)	23.31	22.51	22.38	18.29
		2636.5(41055)	23.47	22.63	22.32	18.16
		2593 (40620)	23.01	21.89	22.02	18.13
		2549.5(40185)	22.93	22.04	21.70	18.16
		2506 (39750)	23.30	22.30	22.38	18.15
	50RB-High (50)	2680 (41490)	22.08	21.09	21.11	18.19
		2636.5(41055)	22.49	21.54	21.48	18.01
		2593 (40620)	22.40	21.39	21.44	18.25
		2549.5(40185)	22.19	21.17	20.04	18.16
		2506 (39750)	21.53	20.58	20.56	18.24
	50RB-Middle (25)	2680 (41490)	22.15	21.17	21.16	18.10
		2636.5(41055)	22.43	21.46	21.41	18.08
		2593 (40620)	22.32	21.33	21.33	18.07
		2549.5(40185)	22.16	21.15	19.99	18.03
		2506 (39750)	21.79	20.85	20.87	18.13
	50RB-Low (0)	2680 (41490)	22.26	21.27	21.30	18.21
		2636.5(41055)	22.42	21.46	21.42	18.16
		2593 (40620)	22.17	21.21	21.19	18.07
		2549.5(40185)	22.04	21.03	19.87	18.04
		2506 (39750)	21.98	21.07	21.10	18.26
	100RB (0)	2680 (41490)	22.11	21.12	21.13	18.02
		2636.5(41055)	22.40	21.42	21.42	18.24
		2593 (40620)	22.31	21.27	21.30	18.04
		2549.5(40185)	22.16	21.18	19.96	18.09
		2506 (39750)	21.78	20.82	20.85	18.19

LTE Band41 PC3 ANT5_A/B/C

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	18.86	18.66	18.75	18.50
		2640.3(41093)	19.03	19.09	18.96	18.20
		2593 (40620)	18.60	18.65	18.62	18.51
		2545.8(40148)	18.14	18.32	17.98	18.38
		2498.5 (39675)	18.87	18.68	18.69	18.55
	1RB-Middle (12)	2687.5 (41565)	18.89	18.78	18.88	18.55
		2640.3(41093)	19.12	19.24	19.08	18.26
		2593 (40620)	18.62	18.72	18.65	18.21
		2545.8(40148)	18.18	18.36	18.12	18.50
		2498.5 (39675)	19.13	19.09	19.09	18.41
	1RB-Low (0)	2687.5 (41565)	18.83	18.91	18.86	18.36
		2640.3(41093)	19.00	19.09	19.06	18.20
		2593 (40620)	18.47	18.38	18.42	18.43
		2545.8(40148)	18.10	18.22	18.03	18.38
		2498.5 (39675)	19.23	19.26	19.23	18.51
	12RB-High (13)	2687.5 (41565)	18.82	18.90	18.95	18.53
		2640.3(41093)	19.10	19.17	19.08	18.43
		2593 (40620)	18.64	18.54	18.69	18.48
		2545.8(40148)	18.16	18.19	18.15	18.49
		2498.5 (39675)	19.01	18.91	18.97	18.38
	12RB-Middle (6)	2687.5 (41565)	18.89	18.85	18.84	18.22
		2640.3(41093)	19.06	19.15	19.04	18.23
		2593 (40620)	18.65	18.67	18.68	18.39
		2545.8(40148)	18.22	18.25	18.17	18.51
		2498.5 (39675)	19.16	19.15	19.10	18.38
	12RB-Low (0)	2687.5 (41565)	18.89	18.88	18.84	18.43
		2640.3(41093)	19.07	18.95	18.99	18.42
		2593 (40620)	18.50	18.58	18.58	18.49
		2545.8(40148)	18.14	18.23	18.25	18.47
		2498.5 (39675)	19.22	19.14	19.27	18.39
	25RB (0)	2687.5 (41565)	18.85	18.88	18.88	18.16
		2640.3(41093)	19.03	19.03	19.07	18.48
		2593 (40620)	18.64	18.56	18.65	18.19
		2545.8(40148)	18.19	18.20	18.22	18.50
		2498.5 (39675)	19.10	19.09	19.09	18.48

10MHz	1RB-High (49)	2685 (41540)	18.80	18.81	18.66	18.41
		2639(41080)	19.05	19.11	19.08	18.49
		2593 (40620)	18.64	18.63	18.61	18.33
		2547(40160)	18.18	18.08	18.04	18.30
		2501 (39700)	18.62	18.78	18.61	18.42
	1RB-Middle (24)	2685 (41540)	18.97	19.07	18.82	18.42
		2639(41080)	19.14	19.17	19.18	18.40
		2593 (40620)	18.62	18.78	18.64	18.21
		2547(40160)	18.20	18.30	18.15	18.39
		2501 (39700)	18.92	18.95	18.95	18.52
	1RB-Low (0)	2685 (41540)	18.98	18.96	18.88	18.29
		2639(41080)	19.05	19.02	19.02	18.21
		2593 (40620)	18.49	18.44	18.47	18.40
		2547(40160)	18.10	18.23	17.99	18.23
		2501 (39700)	19.22	19.08	19.14	18.41
	25RB-High (25)	2685 (41540)	18.90	18.88	18.90	18.15
		2639(41080)	19.13	19.12	19.19	18.31
		2593 (40620)	18.65	18.69	18.69	18.19
		2547(40160)	18.27	18.26	18.23	18.21
		2501 (39700)	18.79	18.71	18.84	18.35
	25RB-Middle (12)	2685 (41540)	18.90	18.91	18.87	18.34
		2639(41080)	19.07	19.11	19.06	18.35
		2593 (40620)	18.64	18.63	18.68	18.38
		2547(40160)	18.23	18.27	18.27	18.29
		2501 (39700)	18.92	18.92	18.94	18.34
	25RB-Low (0)	2685 (41540)	18.92	18.99	18.90	18.20
		2639(41080)	19.07	19.06	19.09	18.49
		2593 (40620)	18.58	18.59	18.52	18.18
		2547(40160)	18.12	18.13	18.14	18.38
		2501 (39700)	19.04	19.01	19.07	18.34
	50RB (0)	2685 (41540)	18.90	18.87	18.85	18.23
		2639(41080)	19.05	19.09	19.07	18.51
		2593 (40620)	18.67	18.68	18.68	18.34
		2547(40160)	18.13	18.11	18.16	18.32
		2501 (39700)	18.91	18.87	18.88	18.29

15MHz	1RB-High (74)	2682.5 (41515)	18.60	18.75	18.64	18.36
		2637.8(41068)	18.90	18.88	18.84	18.33
		2593 (40620)	18.48	18.59	18.48	18.28
		2548.3(40173)	17.96	17.97	18.01	18.15
		2503.5 (39725)	18.25	18.22	18.12	18.27
	1RB-Middle (37)	2682.5 (41515)	18.75	18.86	18.93	18.16
		2637.8(41068)	18.93	19.00	18.84	18.15
		2593 (40620)	18.46	18.46	18.45	18.54
		2548.3(40173)	18.02	18.02	18.07	18.24
		2503.5 (39725)	18.61	18.61	18.55	18.28
	1RB-Low (0)	2682.5 (41515)	18.81	18.81	18.83	18.38
		2637.8(41068)	18.92	18.84	18.82	18.41
		2593 (40620)	18.32	18.26	18.15	18.42
		2548.3(40173)	17.97	17.97	17.88	18.28
		2503.5 (39725)	18.98	18.93	18.84	18.31
	36RB-High (38)	2682.5 (41515)	18.72	18.75	18.76	18.47
		2637.8(41068)	18.94	18.95	18.94	18.41
		2593 (40620)	18.50	18.53	18.55	18.30
		2548.3(40173)	18.05	18.07	18.03	18.32
		2503.5 (39725)	18.45	18.38	18.48	18.53
	36RB-Middle (19)	2682.5 (41515)	18.81	18.74	18.78	18.34
		2637.8(41068)	18.99	18.95	18.99	18.23
		2593 (40620)	18.47	18.49	18.53	18.46
		2548.3(40173)	18.03	18.00	18.03	18.52
		2503.5 (39725)	18.61	18.60	18.62	18.46
	36RB-Low (0)	2682.5 (41515)	18.81	18.82	18.84	18.19
		2637.8(41068)	18.87	18.91	18.89	18.49
		2593 (40620)	18.33	18.37	18.37	18.16
		2548.3(40173)	17.98	18.00	17.98	18.23
		2503.5 (39725)	18.75	18.76	18.80	18.38
	75RB (0)	2682.5 (41515)	18.76	18.81	18.78	18.39
		2637.8(41068)	18.98	18.97	18.98	18.23
		2593 (40620)	18.46	18.49	18.49	18.44
		2548.3(40173)	18.01	18.04	18.05	18.54
		2503.5 (39725)	18.53	18.58	18.65	18.35

20MHz	1RB-High (99)	2680 (41490)	18.63	18.65	18.62	18.27
		2636.5(41055)	18.90	18.93	18.98	18.15
		2593 (40620)	18.56	18.57	18.51	18.46
		2549.5(40185)	17.77	17.83	17.85	18.15
		2506 (39750)	18.04	18.12	18.00	18.44
	1RB-Middle (50)	2680 (41490)	18.79	18.79	18.82	18.45
		2636.5(41055)	18.86	18.79	18.84	18.18
		2593 (40620)	18.33	18.33	18.44	18.39
		2549.5(40185)	18.03	18.07	17.97	18.44
		2506 (39750)	18.43	18.44	18.34	18.16
	1RB-Low (0)	2680 (41490)	18.94	18.93	18.84	18.46
		2636.5(41055)	18.95	18.94	18.92	18.27
		2593 (40620)	18.59	18.37	18.33	18.40
		2549.5(40185)	18.05	18.00	17.83	18.21
		2506 (39750)	18.90	18.97	18.89	18.27
	50RB-High (50)	2680 (41490)	18.73	18.73	18.79	18.40
		2636.5(41055)	18.94	18.99	18.99	18.45
		2593 (40620)	18.51	18.52	18.51	18.49
		2549.5(40185)	18.01	18.03	18.07	18.53
		2506 (39750)	18.30	18.33	18.30	18.50
	50RB-Middle (25)	2680 (41490)	18.90	18.80	18.80	18.31
		2636.5(41055)	19.00	18.99	18.97	18.39
		2593 (40620)	18.58	18.52	18.51	18.40
		2549.5(40185)	18.44	18.03	18.04	18.43
		2506 (39750)	18.70	18.47	18.55	18.44
	50RB-Low (0)	2680 (41490)	18.86	18.90	18.85	18.32
		2636.5(41055)	18.87	18.93	18.93	18.27
		2593 (40620)	18.35	18.34	18.34	18.47
		2549.5(40185)	17.98	17.97	17.99	18.24
		2506 (39750)	18.64	18.67	18.64	18.36
	100RB (0)	2680 (41490)	18.73	18.77	18.74	18.19
		2636.5(41055)	18.90	18.98	18.95	18.29
		2593 (40620)	18.51	18.46	18.49	18.29
		2549.5(40185)	18.01	18.03	18.03	18.53
		2506 (39750)	18.49	18.53	18.49	18.17

LTE Band41 PC3 ANT5_D

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	16.44	16.60	16.39	16.57
		2640.3(41093)	16.76	16.86	16.80	16.62
		2593 (40620)	16.50	16.65	16.44	16.45
		2545.8(40148)	16.26	16.29	16.27	16.35
		2498.5 (39675)	16.61	16.76	16.53	16.36
	1RB-Middle (12)	2687.5 (41565)	16.62	16.77	16.64	16.61
		2640.3(41093)	16.87	17.03	16.87	16.32
		2593 (40620)	16.55	16.75	16.55	16.55
		2545.8(40148)	16.27	16.31	16.25	16.51
		2498.5 (39675)	16.81	16.96	16.79	16.45
	1RB-Low (0)	2687.5 (41565)	16.58	16.76	16.56	16.30
		2640.3(41093)	16.72	16.90	16.70	16.42
		2593 (40620)	16.46	16.58	16.42	16.41
		2545.8(40148)	16.13	16.13	16.26	16.47
		2498.5 (39675)	16.94	17.03	16.99	16.53
	12RB-High (13)	2687.5 (41565)	16.53	16.65	16.54	16.48
		2640.3(41093)	16.84	16.96	16.94	16.38
		2593 (40620)	16.55	16.63	16.53	16.38
		2545.8(40148)	16.27	16.36	16.29	16.45
		2498.5 (39675)	16.74	16.90	16.71	16.47
	12RB-Middle (6)	2687.5 (41565)	16.63	16.79	16.54	16.47
		2640.3(41093)	16.79	16.84	16.74	16.63
		2593 (40620)	16.61	16.73	16.57	16.46
		2545.8(40148)	16.30	16.49	16.23	16.41
		2498.5 (39675)	16.84	16.97	16.89	16.37
	12RB-Low (0)	2687.5 (41565)	16.61	16.74	16.63	16.62
		2640.3(41093)	16.73	16.81	16.70	16.62
		2593 (40620)	16.47	16.49	16.46	16.43
		2545.8(40148)	16.21	16.35	16.29	16.61
		2498.5 (39675)	16.92	16.98	16.95	16.61
	25RB (0)	2687.5 (41565)	16.58	16.72	16.60	16.31
		2640.3(41093)	16.77	16.87	16.74	16.61
		2593 (40620)	16.57	16.68	16.58	16.65
		2545.8(40148)	16.29	16.39	16.28	16.56
		2498.5 (39675)	16.83	16.93	16.84	16.57

10MHz	1RB-High (49)	2685 (41540)	16.46	16.71	16.35	16.63
		2639(41080)	16.79	16.87	16.72	16.43
		2593 (40620)	16.48	16.65	16.44	16.36
		2547(40160)	16.30	16.35	16.21	16.30
		2501 (39700)	16.40	16.49	16.24	16.37
	1RB-Middle (24)	2685 (41540)	16.69	16.84	16.59	16.43
		2639(41080)	16.84	16.90	16.79	16.31
		2593 (40620)	16.57	16.79	16.58	16.57
		2547(40160)	16.32	16.41	16.25	16.55
		2501 (39700)	16.64	16.83	16.52	16.59
	1RB-Low (0)	2685 (41540)	16.67	16.77	16.53	16.48
		2639(41080)	16.73	16.83	16.69	16.53
		2593 (40620)	16.45	16.67	16.45	16.61
		2547(40160)	16.19	16.28	16.06	16.41
		2501 (39700)	16.90	17.11	16.92	16.50
	25RB-High (25)	2685 (41540)	16.61	16.71	16.60	16.44
		2639(41080)	16.84	16.95	16.86	16.52
		2593 (40620)	16.58	16.70	16.59	16.41
		2547(40160)	16.37	16.51	16.39	16.62
		2501 (39700)	16.53	16.66	16.52	16.36
	25RB-Middle (12)	2685 (41540)	16.64	16.75	16.60	16.42
		2639(41080)	16.77	16.91	16.82	16.35
		2593 (40620)	16.58	16.71	16.63	16.60
		2547(40160)	16.33	16.49	16.37	16.55
		2501 (39700)	16.66	16.75	16.68	16.57
	25RB-Low (0)	2685 (41540)	16.64	16.77	16.68	16.53
		2639(41080)	16.73	16.85	16.76	16.38
		2593 (40620)	16.51	16.67	16.52	16.39
		2547(40160)	16.20	16.33	16.15	16.48
		2501 (39700)	16.82	16.91	16.77	16.62
	50RB (0)	2685 (41540)	16.60	16.69	16.58	16.58
		2639(41080)	16.75	16.85	16.76	16.50
		2593 (40620)	16.59	16.70	16.56	16.48
		2547(40160)	16.23	16.39	16.25	16.36
		2501 (39700)	16.66	16.74	16.66	16.34

15MHz	1RB-High (74)	2682.5 (41515)	16.39	16.41	16.41	16.39
		2637.8(41068)	16.70	16.88	16.72	16.55
		2593 (40620)	16.47	16.63	16.33	16.43
		2548.3(40173)	16.20	16.46	16.29	16.48
		2503.5 (39725)	16.06	16.30	16.10	16.44
	1RB-Middle (37)	2682.5 (41515)	16.53	16.62	16.42	16.61
		2637.8(41068)	16.61	16.76	16.66	16.47
		2593 (40620)	16.36	16.50	16.45	16.60
		2548.3(40173)	16.16	16.32	16.20	16.45
		2503.5 (39725)	16.42	16.49	16.30	16.65
	1RB-Low (0)	2682.5 (41515)	16.62	16.75	16.60	16.46
		2637.8(41068)	16.61	16.74	16.57	16.32
		2593 (40620)	16.36	16.41	16.32	16.61
		2548.3(40173)	15.99	16.14	15.87	16.43
		2503.5 (39725)	16.70	16.84	16.65	16.41
	36RB-High (38)	2682.5 (41515)	16.48	16.59	16.46	16.64
		2637.8(41068)	16.67	16.81	16.64	16.33
		2593 (40620)	16.40	16.58	16.42	16.65
		2548.3(40173)	16.17	16.33	16.26	16.60
		2503.5 (39725)	16.29	16.32	16.29	16.30
	36RB-Middle (19)	2682.5 (41515)	16.57	16.66	16.53	16.43
		2637.8(41068)	16.67	16.78	16.66	16.47
		2593 (40620)	16.45	16.56	16.45	16.49
		2548.3(40173)	16.17	16.27	16.20	16.50
		2503.5 (39725)	16.37	16.52	16.41	16.47
	36RB-Low (0)	2682.5 (41515)	16.58	16.67	16.55	16.59
		2637.8(41068)	16.59	16.74	16.59	16.41
		2593 (40620)	16.36	16.51	16.41	16.51
		2548.3(40173)	16.11	16.20	16.13	16.63
		2503.5 (39725)	16.51	16.68	16.56	16.32
	75RB (0)	2682.5 (41515)	16.54	16.64	16.54	16.40
		2637.8(41068)	16.71	16.81	16.69	16.62
		2593 (40620)	16.40	16.55	16.44	16.40
		2548.3(40173)	16.15	16.28	16.16	16.47
		2503.5 (39725)	16.36	16.53	16.37	16.34

20MHz	1RB-High (99)	2680 (41490)	16.47	16.34	16.49	16.46
		2636.5(41055)	16.78	16.83	16.75	16.43
		2593 (40620)	16.59	16.55	16.50	16.54
		2549.5(40185)	16.05	16.13	15.98	16.35
		2506 (39750)	16.27	16.37	16.29	16.62
	1RB-Middle (50)	2680 (41490)	16.57	16.47	16.41	16.61
		2636.5(41055)	16.82	16.90	16.82	16.57
		2593 (40620)	16.41	16.65	16.33	16.34
		2549.5(40185)	16.25	16.36	16.12	16.42
		2506 (39750)	16.49	16.65	16.46	16.38
	1RB-Low (0)	2680 (41490)	16.81	16.86	16.67	16.41
		2636.5(41055)	16.87	16.90	16.80	16.33
		2593 (40620)	16.40	16.38	16.23	16.50
		2549.5(40185)	16.11	16.23	16.14	16.40
		2506 (39750)	16.51	16.98	16.99	16.49
	50RB-High (50)	2680 (41490)	16.56	16.58	16.55	16.40
		2636.5(41055)	16.86	16.87	16.86	16.32
		2593 (40620)	16.57	16.59	16.57	16.32
		2549.5(40185)	16.26	16.27	16.27	16.65
		2506 (39750)	16.51	16.46	16.53	16.59
	50RB-Middle (25)	2680 (41490)	16.59	16.62	16.60	16.59
		2636.5(41055)	16.82	16.91	16.92	16.44
		2593 (40620)	16.56	16.61	16.55	16.63
		2549.5(40185)	16.23	16.36	16.24	16.36
		2506 (39750)	16.61	16.63	16.71	16.52
	50RB-Low (0)	2680 (41490)	16.66	16.68	16.68	16.55
		2636.5(41055)	16.83	16.89	16.84	16.53
		2593 (40620)	16.42	16.44	16.42	16.46
		2549.5(40185)	16.21	16.27	16.25	16.50
		2506 (39750)	16.75	16.80	16.79	16.40
	100RB (0)	2680 (41490)	16.55	16.59	16.57	16.58
		2636.5(41055)	16.84	16.92	16.87	16.41
		2593 (40620)	16.56	16.52	16.55	16.44
		2549.5(40185)	16.24	16.30	16.28	16.46
		2506 (39750)	16.63	16.68	16.67	16.56

LTE Band66 ANT1_A/C/E

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	23.41	22.75	21.62	18.12
		1745 (132322)	23.25	22.67	21.33	18.16
		1710.7 (131979)	23.38	22.65	21.51	18.09
	1RB-Middle (3)	1779.3 (132665)	23.44	22.78	21.53	18.05
		1745 (132322)	23.34	22.64	21.46	18.06
		1710.7 (131979)	23.39	22.83	21.46	18.12
	1RB-Low (0)	1779.3 (132665)	23.46	22.77	21.54	18.20
		1745 (132322)	23.39	22.68	21.35	18.10
		1710.7 (131979)	23.35	22.61	21.38	18.22
	3RB-High (3)	1779.3 (132665)	23.44	22.50	21.51	18.12
		1745 (132322)	23.31	22.51	21.32	18.15
		1710.7 (131979)	23.46	22.57	21.50	18.33
	3RB-Middle (1)	1779.3 (132665)	23.46	22.55	21.47	18.29
		1745 (132322)	23.41	22.46	21.33	18.23
		1710.7 (131979)	23.46	22.49	21.48	18.18
	3RB-Low (0)	1779.3 (132665)	23.34	22.56	21.50	18.04
		1745 (132322)	23.39	22.41	21.36	18.20
		1710.7 (131979)	23.43	22.56	21.38	18.21
	6RB (0)	1779.3 (132665)	22.44	21.49	20.39	18.18
		1745 (132322)	22.37	21.38	20.42	18.35
		1710.7 (131979)	22.43	21.56	20.48	18.17
3MHz	1RB-High (14)	1778.5 (132657)	23.38	22.77	21.50	18.16
		1745 (132322)	23.34	22.64	21.51	18.08
		1711.5 (131987)	23.34	22.74	21.55	18.23
	1RB-Middle (7)	1778.5 (132657)	23.55	22.93	21.56	18.02
		1745 (132322)	23.41	22.66	21.49	18.28
		1711.5 (131987)	23.52	22.79	21.62	18.24
	1RB-Low (0)	1778.5 (132657)	23.40	22.72	21.49	18.13
		1745 (132322)	23.29	22.60	21.43	18.15
		1711.5 (131987)	23.35	22.72	21.50	18.13
	8RB-High (7)	1778.5 (132657)	22.46	21.46	20.46	18.22
		1745 (132322)	22.40	21.32	20.40	18.16
		1711.5 (131987)	22.45	21.55	20.44	18.11
	8RB-Middle (4)	1778.5 (132657)	22.49	21.50	20.47	18.16
		1745 (132322)	22.35	21.43	20.48	18.11
		1711.5 (131987)	22.48	21.61	20.44	18.14
	8RB-Low (0)	1778.5 (132657)	22.31	21.37	20.32	18.06
		1745 (132322)	22.31	21.37	20.48	18.27
		1711.5 (131987)	22.46	21.49	20.44	18.05
	15RB (0)	1778.5 (132657)	22.50	21.47	20.44	18.21
		1745 (132322)	22.48	21.46	20.43	18.33
		1711.5 (131987)	22.55	21.54	20.49	18.02

5MHz	1RB-High (24)	1777.5 (132647)	23.34	22.74	21.66	18.24
		1745 (132322)	23.31	22.48	21.38	18.06
		1712.5 (131997)	23.37	22.78	21.72	18.00
	1RB-Middle (12)	1777.5 (132647)	23.42	22.96	21.62	18.16
		1745 (132322)	23.47	22.70	21.44	18.00
		1712.5 (131997)	23.47	22.72	21.56	18.02
	1RB-Low (0)	1777.5 (132647)	23.37	22.70	21.40	18.04
		1745 (132322)	23.29	22.54	21.51	18.13
		1712.5 (131997)	23.46	22.85	21.41	18.29
	12RB-High (13)	1777.5 (132647)	22.45	21.45	20.43	18.07
		1745 (132322)	22.41	21.41	20.38	18.05
		1712.5 (131997)	22.54	21.53	20.47	18.10
	12RB-Middle (6)	1777.5 (132647)	22.51	21.51	20.46	18.35
		1745 (132322)	22.50	21.39	20.46	18.14
		1712.5 (131997)	22.52	21.57	20.53	18.20
	12RB-Low (0)	1777.5 (132647)	22.34	21.36	20.28	18.34
		1745 (132322)	22.28	21.36	20.27	18.11
		1712.5 (131997)	22.42	21.46	20.36	18.22
	25RB (0)	1777.5 (132647)	22.42	21.45	20.40	18.00
		1745 (132322)	22.36	21.42	20.41	18.18
		1712.5 (131997)	22.49	21.49	20.51	18.19
10MHz	1RB-High (49)	1775 (132622)	23.40	22.69	21.47	18.12
		1745 (132322)	23.50	22.61	21.41	18.13
		1715 (132022)	23.40	22.81	21.56	18.26
	1RB-Middle (24)	1775 (132622)	23.41	22.80	21.65	18.02
		1745 (132322)	23.37	22.68	21.61	18.08
		1715 (132022)	23.45	22.78	21.50	18.17
	1RB-Low (0)	1775 (132622)	23.39	22.54	21.55	18.20
		1745 (132322)	23.36	22.64	21.44	18.01
		1715 (132022)	23.45	22.57	21.58	18.12
	25RB-High (25)	1775 (132622)	22.50	21.43	20.49	18.28
		1745 (132322)	22.44	21.44	20.43	18.25
		1715 (132022)	22.42	21.48	20.48	18.09
	25RB-Middle (12)	1775 (132622)	22.52	21.54	20.47	18.33
		1745 (132322)	22.48	21.52	20.49	18.09
		1715 (132022)	22.52	21.57	20.50	18.19
	25RB-Low (0)	1775 (132622)	22.43	21.38	20.42	18.17
		1745 (132322)	22.30	21.29	20.34	18.17
		1715 (132022)	22.48	21.52	20.44	18.00
	50RB (0)	1775 (132622)	22.46	21.46	20.46	18.34
		1745 (132322)	22.42	21.40	20.40	18.20
		1715 (132022)	22.44	21.41	20.43	18.15

15MHz	1RB-High (74)	1772.5 (132597)	22.99	22.42	21.07	18.23
		1745 (132322)	23.11	22.32	21.12	18.25
		1717.5 (132047)	23.13	22.40	21.30	18.13
	1RB-Middle (37)	1772.5 (132597)	23.12	22.43	21.44	18.06
		1745 (132322)	23.08	22.36	21.34	18.05
		1717.5 (132047)	23.18	22.62	21.17	18.01
	1RB-Low (0)	1772.5 (132597)	23.06	22.29	21.23	18.18
		1745 (132322)	22.96	22.32	21.10	18.13
		1717.5 (132047)	23.13	22.42	21.18	18.20
	36RB-High (38)	1772.5 (132597)	22.15	21.18	20.16	18.19
		1745 (132322)	22.14	21.13	20.18	18.14
		1717.5 (132047)	22.18	21.29	20.22	18.05
	36RB-Middle (19)	1772.5 (132597)	22.09	21.18	20.16	18.27
		1745 (132322)	22.11	21.13	20.17	18.14
		1717.5 (132047)	22.25	21.18	20.21	18.17
	36RB-Low (0)	1772.5 (132597)	22.04	21.13	20.10	18.17
		1745 (132322)	22.01	21.05	20.18	18.20
		1717.5 (132047)	22.21	21.23	20.25	18.29
	75RB (0)	1772.5 (132597)	22.13	21.25	20.17	18.31
		1745 (132322)	22.13	21.14	20.18	18.07
		1717.5 (132047)	22.19	21.27	20.25	18.02
20MHz	1RB-High (99)	1770 (132572)	22.99	22.23	21.27	18.02
		1745 (132322)	23.01	22.54	21.04	18.27
		1720 (132072)	23.01	22.59	21.44	18.03
	1RB-Middle (50)	1770 (132572)	23.03	22.86	21.19	18.04
		1745 (132322)	22.98	22.28	21.15	18.07
		1720 (132072)	23.03	22.32	21.36	18.15
	1RB-Low (0)	1770 (132572)	22.98	22.15	21.20	18.04
		1745 (132322)	23.05	22.26	21.22	18.07
		1720 (132072)	23.00	22.56	21.12	18.35
	50RB-High (50)	1770 (132572)	22.05	21.16	20.11	18.20
		1745 (132322)	22.04	21.09	20.13	18.01
		1720 (132072)	22.08	21.14	20.09	18.34
	50RB-Middle (25)	1770 (132572)	22.05	21.10	20.04	18.33
		1745 (132322)	22.05	21.05	20.15	18.10
		1720 (132072)	22.14	21.08	20.08	18.14
	50RB-Low (0)	1770 (132572)	21.97	21.01	19.96	18.26
		1745 (132322)	21.97	21.00	19.94	18.34
		1720 (132072)	22.07	21.12	19.98	18.01
	100RB (0)	1770 (132572)	22.06	21.09	20.09	18.15
		1745 (132322)	22.07	21.09	20.05	18.15
		1720 (132072)	22.10	21.09	20.14	18.31

LTE Band66 ANT1_B

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	21.84	22.27	21.92	18.17
		1745 (132322)	21.87	22.18	22.11	18.10
		1710.7 (131979)	22.09	22.31	22.36	18.30
	1RB-Middle (3)	1779.3 (132665)	21.83	22.44	21.94	18.24
		1745 (132322)	21.93	22.31	22.05	18.21
		1710.7 (131979)	22.12	22.35	22.40	18.23
	1RB-Low (0)	1779.3 (132665)	21.82	22.20	21.96	18.20
		1745 (132322)	21.94	22.36	22.08	18.05
		1710.7 (131979)	22.07	22.33	22.27	18.37
	3RB-High (3)	1779.3 (132665)	21.88	21.92	22.07	18.09
		1745 (132322)	22.00	22.13	22.04	18.42
		1710.7 (131979)	22.10	22.19	22.30	18.38
	3RB-Middle (1)	1779.3 (132665)	21.92	21.94	21.97	18.39
		1745 (132322)	21.92	22.12	22.04	18.35
		1710.7 (131979)	22.14	22.30	22.18	18.16
	3RB-Low (0)	1779.3 (132665)	21.83	22.09	21.90	18.17
		1745 (132322)	21.94	22.09	22.11	18.43
		1710.7 (131979)	22.10	22.32	22.17	18.38
	6RB (0)	1779.3 (132665)	21.86	21.87	21.04	18.33
		1745 (132322)	22.02	22.08	20.99	18.15
		1710.7 (131979)	22.16	22.29	21.21	18.44
3MHz	1RB-High (14)	1778.5 (132657)	21.88	22.13	22.07	18.15
		1745 (132322)	21.88	22.28	22.12	18.05
		1711.5 (131987)	22.11	22.31	22.29	18.14
	1RB-Middle (7)	1778.5 (132657)	21.95	22.34	22.11	18.10
		1745 (132322)	22.05	22.32	22.06	18.31
		1711.5 (131987)	22.21	22.42	22.29	18.10
	1RB-Low (0)	1778.5 (132657)	21.78	22.26	21.96	18.26
		1745 (132322)	21.95	22.20	22.16	18.15
		1711.5 (131987)	22.07	22.42	22.30	18.07
	8RB-High (7)	1778.5 (132657)	21.96	21.96	21.00	18.40
		1745 (132322)	22.03	22.11	21.05	18.26
		1711.5 (131987)	22.18	22.20	21.28	18.38
	8RB-Middle (4)	1778.5 (132657)	21.92	22.05	20.99	18.11
		1745 (132322)	21.99	22.05	21.08	18.16
		1711.5 (131987)	22.20	22.27	21.30	18.16
	8RB-Low (0)	1778.5 (132657)	21.89	21.98	21.01	18.22
		1745 (132322)	22.05	22.03	21.04	18.44
		1711.5 (131987)	22.18	22.23	21.25	18.31
	15RB (0)	1778.5 (132657)	22.02	21.96	21.03	18.20
		1745 (132322)	22.04	22.09	21.16	18.35
		1711.5 (131987)	22.18	22.21	21.25	18.45

5MHz	1RB-High (24)	1777.5 (132647)	21.75	22.15	22.07	18.33
		1745 (132322)	21.92	22.36	22.16	18.25
		1712.5 (131997)	22.09	22.44	22.24	18.21
	1RB-Middle (12)	1777.5 (132647)	22.00	22.17	22.11	18.21
		1745 (132322)	21.99	22.38	21.96	18.29
		1712.5 (131997)	22.22	22.38	22.36	18.24
	1RB-Low (0)	1777.5 (132647)	21.78	22.27	21.92	18.20
		1745 (132322)	21.91	22.32	22.13	18.10
		1712.5 (131997)	22.02	22.36	22.33	18.21
	12RB-High (13)	1777.5 (132647)	21.91	21.92	21.02	18.32
		1745 (132322)	22.01	22.05	21.07	18.18
		1712.5 (131997)	22.15	22.25	21.30	18.33
	12RB-Middle (6)	1777.5 (132647)	21.93	22.03	20.96	18.14
		1745 (132322)	22.07	22.03	21.22	18.25
		1712.5 (131997)	22.22	22.17	21.36	18.39
	12RB-Low (0)	1777.5 (132647)	21.83	21.89	20.83	18.06
		1745 (132322)	21.98	22.02	21.03	18.11
		1712.5 (131997)	22.12	22.19	21.26	18.21
	25RB (0)	1777.5 (132647)	21.82	21.82	20.98	18.13
		1745 (132322)	21.98	22.02	21.11	18.45
		1712.5 (131997)	22.18	22.23	21.23	18.17
10MHz	1RB-High (49)	1775 (132622)	21.88	22.17	22.00	18.35
		1745 (132322)	21.96	22.27	22.05	18.25
		1715 (132022)	22.11	22.35	22.20	18.33
	1RB-Middle (24)	1775 (132622)	21.93	22.29	22.04	18.10
		1745 (132322)	22.02	22.36	21.96	18.32
		1715 (132022)	22.22	22.35	22.26	18.36
	1RB-Low (0)	1775 (132622)	21.91	22.10	21.92	18.37
		1745 (132322)	21.96	22.32	21.87	18.19
		1715 (132022)	22.03	22.41	22.10	18.15
	25RB-High (25)	1775 (132622)	21.98	21.97	21.04	18.21
		1745 (132322)	22.02	22.04	21.08	18.42
		1715 (132022)	22.22	22.18	21.34	18.38
	25RB-Middle (12)	1775 (132622)	22.00	22.01	21.05	18.17
		1745 (132322)	22.05	22.06	21.16	18.44
		1715 (132022)	22.31	22.25	21.29	18.30
	25RB-Low (0)	1775 (132622)	21.99	21.98	20.94	18.14
		1745 (132322)	21.96	21.86	21.03	18.19
		1715 (132022)	22.24	22.20	21.20	18.32
	50RB (0)	1775 (132622)	21.97	21.99	21.03	18.26
		1745 (132322)	21.97	21.94	20.98	18.26
		1715 (132022)	22.15	22.14	21.26	18.44

15MHz	1RB-High (74)	1772.5 (132597)	21.71	21.77	21.69	18.45
		1745 (132322)	21.80	22.34	21.88	18.15
		1717.5 (132047)	21.90	22.32	22.13	18.08
	1RB-Middle (37)	1772.5 (132597)	21.68	21.91	21.84	18.15
		1745 (132322)	21.85	22.10	21.91	18.19
		1717.5 (132047)	21.91	22.00	22.10	18.40
	1RB-Low (0)	1772.5 (132597)	21.63	22.02	21.88	18.06
		1745 (132322)	21.81	22.01	21.87	18.12
		1717.5 (132047)	21.94	22.24	22.15	18.10
	36RB-High (38)	1772.5 (132597)	21.72	21.77	20.84	18.36
		1745 (132322)	21.82	21.85	20.88	18.29
		1717.5 (132047)	22.00	21.99	21.03	18.16
	36RB-Middle (19)	1772.5 (132597)	21.77	21.70	20.78	18.37
		1745 (132322)	21.81	21.80	20.86	18.28
		1717.5 (132047)	21.99	22.01	21.06	18.30
	36RB-Low (0)	1772.5 (132597)	21.74	21.79	20.76	18.06
		1745 (132322)	21.79	21.90	20.83	18.11
		1717.5 (132047)	22.03	22.04	21.08	18.06
	75RB (0)	1772.5 (132597)	21.69	21.67	20.70	18.10
		1745 (132322)	21.81	21.76	20.86	18.44
		1717.5 (132047)	22.03	22.00	21.11	18.37
20MHz	1RB-High (99)	1770 (132572)	21.65	21.83	21.82	18.11
		1745 (132322)	21.83	22.09	22.05	18.07
		1720 (132072)	21.90	22.18	22.30	18.12
	1RB-Middle (50)	1770 (132572)	21.67	21.89	22.05	18.23
		1745 (132322)	21.79	22.08	22.22	18.38
		1720 (132072)	21.88	22.21	22.45	18.37
	1RB-Low (0)	1770 (132572)	21.79	21.95	21.83	18.37
		1745 (132322)	21.95	22.09	22.12	18.35
		1720 (132072)	21.94	22.22	22.17	18.18
	50RB-High (50)	1770 (132572)	21.73	21.81	20.81	18.05
		1745 (132322)	21.99	21.91	20.86	18.21
		1720 (132072)	21.89	21.98	20.99	18.43
	50RB-Middle (25)	1770 (132572)	21.82	21.85	20.81	18.19
		1745 (132322)	22.03	21.78	20.83	18.29
		1720 (132072)	21.98	22.01	21.04	18.18
	50RB-Low (0)	1770 (132572)	21.71	21.70	20.75	18.10
		1745 (132322)	21.83	21.81	20.78	18.19
		1720 (132072)	21.82	21.94	20.94	18.38
	100RB (0)	1770 (132572)	21.81	21.81	20.82	18.44
		1745 (132322)	22.01	21.79	20.77	18.40
		1720 (132072)	21.81	22.04	20.96	18.25

LTE Band66 ANT1_D

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	18.63	19.07	18.81	18.64
		1745 (132322)	18.72	18.98	18.96	18.71
		1710.7 (131979)	18.86	19.23	19.05	18.54
	1RB-Middle (3)	1779.3 (132665)	18.67	19.16	18.89	18.55
		1745 (132322)	18.73	19.07	18.85	18.82
		1710.7 (131979)	18.91	19.35	19.16	18.68
	1RB-Low (0)	1779.3 (132665)	18.59	18.82	18.76	18.81
		1745 (132322)	18.75	19.07	18.91	18.85
		1710.7 (131979)	18.85	19.13	19.09	18.77
	3RB-High (3)	1779.3 (132665)	18.69	18.89	18.74	18.53
		1745 (132322)	18.72	18.83	18.85	18.79
		1710.7 (131979)	18.97	19.10	19.02	18.70
	3RB-Middle (1)	1779.3 (132665)	18.66	18.77	18.77	18.63
		1745 (132322)	18.81	18.98	18.83	18.56
		1710.7 (131979)	18.88	19.03	19.05	18.76
	3RB-Low (0)	1779.3 (132665)	18.67	18.85	18.78	18.68
		1745 (132322)	18.78	18.85	18.81	18.77
		1710.7 (131979)	18.87	18.99	18.95	18.69
	6RB (0)	1779.3 (132665)	18.74	18.79	18.78	18.56
		1745 (132322)	18.79	18.87	18.88	18.66
		1710.7 (131979)	18.91	19.00	18.95	18.81
3MHz	1RB-High (14)	1778.5 (132657)	18.72	18.96	18.85	18.65
		1745 (132322)	18.78	19.05	18.89	18.49
		1711.5 (131987)	18.86	19.02	19.08	18.48
	1RB-Middle (7)	1778.5 (132657)	18.75	19.17	18.85	18.75
		1745 (132322)	18.76	19.14	19.10	18.49
		1711.5 (131987)	18.93	19.33	19.20	18.72
	1RB-Low (0)	1778.5 (132657)	18.65	18.90	19.00	18.84
		1745 (132322)	18.69	18.98	18.94	18.58
		1711.5 (131987)	18.83	19.25	18.93	18.65
	8RB-High (7)	1778.5 (132657)	18.72	18.76	18.78	18.71
		1745 (132322)	18.74	18.86	18.86	18.76
		1711.5 (131987)	18.97	19.03	18.96	18.59
	8RB-Middle (4)	1778.5 (132657)	18.71	18.81	18.78	18.82
		1745 (132322)	18.76	18.86	18.89	18.70
		1711.5 (131987)	18.99	19.02	19.07	18.65
	8RB-Low (0)	1778.5 (132657)	18.68	18.73	18.77	18.53
		1745 (132322)	18.80	18.93	18.82	18.67
		1711.5 (131987)	18.95	19.04	19.04	18.49
	15RB (0)	1778.5 (132657)	18.78	18.70	18.77	18.52
		1745 (132322)	18.84	18.90	18.83	18.72
		1711.5 (131987)	18.97	18.97	19.02	18.64

5MHz	1RB-High (24)	1777.5 (132647)	18.65	18.97	18.80	18.52
		1745 (132322)	18.73	19.07	18.80	18.47
		1712.5 (131997)	18.81	19.28	19.03	18.85
	1RB-Middle (12)	1777.5 (132647)	18.70	18.93	18.85	18.80
		1745 (132322)	18.80	19.11	18.93	18.62
		1712.5 (131997)	18.88	19.32	19.14	18.67
	1RB-Low (0)	1777.5 (132647)	18.64	18.96	18.61	18.55
		1745 (132322)	18.69	19.17	18.84	18.55
		1712.5 (131997)	18.93	19.16	19.02	18.63
	12RB-High (13)	1777.5 (132647)	18.74	18.78	18.78	18.73
		1745 (132322)	18.80	18.85	18.83	18.84
		1712.5 (131997)	18.91	19.04	18.89	18.67
	12RB-Middle (6)	1777.5 (132647)	18.72	18.75	18.74	18.57
		1745 (132322)	18.84	18.84	18.80	18.69
		1712.5 (131997)	18.95	19.08	18.97	18.54
	12RB-Low (0)	1777.5 (132647)	18.63	18.65	18.64	18.74
		1745 (132322)	18.79	18.89	18.82	18.56
		1712.5 (131997)	18.92	19.05	18.93	18.66
	25RB (0)	1777.5 (132647)	18.65	18.69	18.59	18.65
		1745 (132322)	18.82	18.80	18.83	18.60
		1712.5 (131997)	19.00	19.02	19.03	18.53
10MHz	1RB-High (49)	1775 (132622)	18.68	19.04	18.89	18.65
		1745 (132322)	18.73	18.95	19.01	18.54
		1715 (132022)	18.87	19.15	18.98	18.72
	1RB-Middle (24)	1775 (132622)	18.74	18.89	18.98	18.64
		1745 (132322)	18.84	19.12	18.84	18.54
		1715 (132022)	18.97	19.19	19.04	18.71
	1RB-Low (0)	1775 (132622)	18.77	18.79	18.63	18.57
		1745 (132322)	18.74	19.17	18.93	18.47
		1715 (132022)	18.88	19.22	18.97	18.73
	25RB-High (25)	1775 (132622)	18.71	18.80	18.81	18.82
		1745 (132322)	18.82	18.86	18.85	18.61
		1715 (132022)	18.95	19.03	18.94	18.54
	25RB-Middle (12)	1775 (132622)	18.77	18.78	18.76	18.51
		1745 (132322)	18.85	18.87	18.88	18.58
		1715 (132022)	19.01	18.99	18.99	18.51
	25RB-Low (0)	1775 (132622)	18.73	18.75	18.76	18.68
		1745 (132322)	18.69	18.84	18.78	18.68
		1715 (132022)	18.93	18.99	18.99	18.75
	50RB (0)	1775 (132622)	18.71	18.73	18.72	18.52
		1745 (132322)	18.67	18.72	18.82	18.67
		1715 (132022)	18.91	19.01	18.99	18.69

15MHz	1RB-High (74)	1772.5 (132597)	18.39	18.71	18.52	18.70
		1745 (132322)	18.66	18.92	18.69	18.77
		1717.5 (132047)	18.73	18.96	18.79	18.73
	1RB-Middle (37)	1772.5 (132597)	18.57	18.87	18.52	18.57
		1745 (132322)	18.62	18.99	18.71	18.78
		1717.5 (132047)	18.77	19.03	18.84	18.55
	1RB-Low (0)	1772.5 (132597)	18.48	18.77	18.57	18.45
		1745 (132322)	18.61	18.72	18.80	18.61
		1717.5 (132047)	18.77	18.96	18.73	18.85
	36RB-High (38)	1772.5 (132597)	18.54	18.58	18.52	18.64
		1745 (132322)	18.68	18.62	18.66	18.63
		1717.5 (132047)	18.80	18.73	18.74	18.84
	36RB-Middle (19)	1772.5 (132597)	18.56	18.52	18.43	18.80
		1745 (132322)	18.60	18.56	18.60	18.78
		1717.5 (132047)	18.82	18.82	18.76	18.57
	36RB-Low (0)	1772.5 (132597)	18.45	18.41	18.52	18.61
		1745 (132322)	18.61	18.52	18.64	18.61
		1717.5 (132047)	18.83	18.84	18.77	18.51
	75RB (0)	1772.5 (132597)	18.49	18.44	18.49	18.53
		1745 (132322)	18.53	18.58	18.61	18.80
		1717.5 (132047)	18.78	18.78	18.71	18.67
20MHz	1RB-High (99)	1770 (132572)	18.49	18.75	18.46	18.76
		1745 (132322)	18.65	18.85	18.72	18.75
		1720 (132072)	18.68	19.04	18.69	18.85
	1RB-Middle (50)	1770 (132572)	18.45	18.62	18.65	18.68
		1745 (132322)	18.66	18.87	18.63	18.76
		1720 (132072)	18.68	19.07	18.82	18.73
	1RB-Low (0)	1770 (132572)	18.50	18.87	18.60	18.60
		1745 (132322)	18.70	18.83	18.72	18.85
		1720 (132072)	18.68	19.08	18.73	18.53
	50RB-High (50)	1770 (132572)	18.57	18.58	18.55	18.55
		1745 (132322)	18.69	18.70	18.68	18.55
		1720 (132072)	18.64	18.73	18.76	18.81
	50RB-Middle (25)	1770 (132572)	18.57	18.58	18.57	18.56
		1745 (132322)	18.69	18.50	18.62	18.63
		1720 (132072)	18.68	18.80	18.77	18.49
	50RB-Low (0)	1770 (132572)	18.43	18.56	18.52	18.47
		1745 (132322)	18.59	18.63	18.51	18.45
		1720 (132072)	18.61	18.74	18.61	18.46
	100RB (0)	1770 (132572)	18.63	18.56	18.51	18.69
		1745 (132322)	18.54	18.58	18.54	18.56
		1720 (132072)	18.79	18.74	18.76	18.79

LTE Band66 ANT5_D/E

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	23.77	22.14	20.92	17.95
		1745 (132322)	23.60	22.06	20.64	17.99
		1710.7 (131979)	23.74	22.04	20.81	17.92
	1RB-Middle (3)	1779.3 (132665)	23.80	22.17	20.83	17.88
		1745 (132322)	23.70	22.03	20.76	17.89
		1710.7 (131979)	23.75	22.21	20.76	17.95
	1RB-Low (0)	1779.3 (132665)	23.82	22.16	20.84	18.03
		1745 (132322)	23.75	22.07	20.66	17.93
		1710.7 (131979)	23.71	22.00	20.69	18.05
	3RB-High (3)	1779.3 (132665)	23.80	21.89	20.81	17.95
		1745 (132322)	23.66	21.90	20.63	17.98
		1710.7 (131979)	23.82	21.96	20.80	18.16
	3RB-Middle (1)	1779.3 (132665)	23.82	21.94	20.77	18.12
		1745 (132322)	23.77	21.85	20.64	18.06
		1710.7 (131979)	23.82	21.88	20.78	18.01
	3RB-Low (0)	1779.3 (132665)	23.70	21.95	20.80	17.87
		1745 (132322)	23.75	21.81	20.67	18.03
		1710.7 (131979)	23.79	21.95	20.69	18.04
	6RB (0)	1779.3 (132665)	22.78	20.91	19.73	18.01
		1745 (132322)	22.71	20.80	19.76	18.18
		1710.7 (131979)	22.77	20.98	19.82	18.00
3MHz	1RB-High (14)	1778.5 (132657)	23.74	22.16	20.80	17.99
		1745 (132322)	23.70	22.03	20.81	17.91
		1711.5 (131987)	23.70	22.13	20.85	18.06
	1RB-Middle (7)	1778.5 (132657)	23.91	22.31	20.86	17.85
		1745 (132322)	23.77	22.05	20.79	18.11
		1711.5 (131987)	23.88	22.17	20.92	18.07
	1RB-Low (0)	1778.5 (132657)	23.76	22.11	20.79	17.96
		1745 (132322)	23.64	21.99	20.73	17.98
		1711.5 (131987)	23.71	22.11	20.80	17.96
	8RB-High (7)	1778.5 (132657)	22.80	20.88	19.80	18.05
		1745 (132322)	22.74	20.74	19.74	17.99
		1711.5 (131987)	22.79	20.97	19.78	17.94
	8RB-Middle (4)	1778.5 (132657)	22.83	20.92	19.81	17.99
		1745 (132322)	22.69	20.85	19.82	17.94
		1711.5 (131987)	22.82	21.03	19.78	17.97
	8RB-Low (0)	1778.5 (132657)	22.65	20.79	19.66	17.89
		1745 (132322)	22.65	20.79	19.82	18.10
		1711.5 (131987)	22.80	20.91	19.78	17.88
	15RB (0)	1778.5 (132657)	22.84	20.89	19.78	18.04
		1745 (132322)	22.82	20.88	19.77	18.16
		1711.5 (131987)	22.89	20.96	19.83	17.85

5MHz	1RB-High (24)	1777.5 (132647)	23.70	22.13	20.96	18.07
		1745 (132322)	23.66	21.87	20.69	17.89
		1712.5 (131997)	23.73	22.17	21.02	17.83
	1RB-Middle (12)	1777.5 (132647)	23.78	22.34	20.92	17.99
		1745 (132322)	23.83	22.09	20.74	17.83
		1712.5 (131997)	23.83	22.11	20.86	17.85
	1RB-Low (0)	1777.5 (132647)	23.73	22.09	20.71	17.87
		1745 (132322)	23.64	21.93	20.81	17.96
		1712.5 (131997)	23.82	22.23	20.72	18.12
	12RB-High (13)	1777.5 (132647)	22.79	20.87	19.77	17.90
		1745 (132322)	22.75	20.83	19.72	17.88
		1712.5 (131997)	22.88	20.95	19.81	17.93
	12RB-Middle (6)	1777.5 (132647)	22.85	20.93	19.80	18.18
		1745 (132322)	22.84	20.81	19.80	17.97
		1712.5 (131997)	22.86	20.99	19.86	18.03
	12RB-Low (0)	1777.5 (132647)	22.68	20.78	19.62	18.17
		1745 (132322)	22.62	20.78	19.61	17.94
		1712.5 (131997)	22.76	20.88	19.70	18.05
	25RB (0)	1777.5 (132647)	22.76	20.87	19.74	17.83
		1745 (132322)	22.70	20.84	19.75	18.01
		1712.5 (131997)	22.83	20.91	19.84	18.02
10MHz	1RB-High (49)	1775 (132622)	23.76	22.08	20.77	17.95
		1745 (132322)	23.86	22.00	20.72	17.96
		1715 (132022)	23.76	22.19	20.86	18.09
	1RB-Middle (24)	1775 (132622)	23.77	22.18	20.95	17.85
		1745 (132322)	23.73	22.07	20.91	17.91
		1715 (132022)	23.81	22.17	20.80	18.00
	1RB-Low (0)	1775 (132622)	23.75	21.93	20.85	18.03
		1745 (132322)	23.72	22.03	20.74	17.84
		1715 (132022)	23.81	21.96	20.88	17.95
	25RB-High (25)	1775 (132622)	22.84	20.85	19.83	18.11
		1745 (132322)	22.78	20.86	19.77	18.08
		1715 (132022)	22.76	20.90	19.82	17.92
	25RB-Middle (12)	1775 (132622)	22.86	20.96	19.81	18.16
		1745 (132322)	22.82	20.94	19.83	17.92
		1715 (132022)	22.86	20.99	19.83	18.02
	25RB-Low (0)	1775 (132622)	22.77	20.80	19.76	18.00
		1745 (132322)	22.64	20.72	19.68	18.00
		1715 (132022)	22.82	20.94	19.78	17.83
	50RB (0)	1775 (132622)	22.80	20.88	19.80	18.17
		1745 (132322)	22.76	20.82	19.74	18.03
		1715 (132022)	22.78	20.83	19.77	17.98

15MHz	1RB-High (74)	1772.5 (132597)	23.34	21.81	20.59	18.06
		1745 (132322)	23.46	21.72	20.63	18.08
		1717.5 (132047)	23.48	21.80	20.61	17.96
	1RB-Middle (37)	1772.5 (132597)	23.47	21.82	20.74	17.89
		1745 (132322)	23.43	21.76	20.65	17.88
		1717.5 (132047)	23.53	22.01	20.58	17.84
	1RB-Low (0)	1772.5 (132597)	23.41	21.69	20.54	18.01
		1745 (132322)	23.31	21.72	20.52	17.96
		1717.5 (132047)	23.48	21.81	20.69	18.03
	36RB-High (38)	1772.5 (132597)	22.49	20.61	19.51	18.02
		1745 (132322)	22.48	20.56	19.53	17.97
		1717.5 (132047)	22.52	20.72	19.56	17.88
	36RB-Middle (19)	1772.5 (132597)	22.43	20.61	19.51	18.10
		1745 (132322)	22.45	20.56	19.52	17.97
		1717.5 (132047)	22.59	20.61	19.55	18.00
	36RB-Low (0)	1772.5 (132597)	22.38	20.56	19.55	18.00
		1745 (132322)	22.35	20.58	19.53	18.03
		1717.5 (132047)	22.55	20.66	19.59	18.12
	75RB (0)	1772.5 (132597)	22.47	20.68	19.52	18.14
		1745 (132322)	22.47	20.57	19.53	17.90
		1717.5 (132047)	22.53	20.70	19.59	17.85
20MHz	1RB-High (99)	1770 (132572)	23.34	21.63	20.58	17.85
		1745 (132322)	24.26	22.48	21.28	18.56
		1720 (132072)	23.59	21.86	20.70	18.04
	1RB-Middle (50)	1770 (132572)	23.36	21.64	20.55	17.87
		1745 (132322)	23.80	22.05	20.88	18.20
		1720 (132072)	23.18	21.58	20.54	17.73
	1RB-Low (0)	1770 (132572)	23.08	21.59	20.55	17.65
		1745 (132322)	23.86	22.11	20.93	18.25
		1720 (132072)	23.56	21.83	20.67	18.02
	50RB-High (50)	1770 (132572)	21.91	20.51	19.62	17.58
		1745 (132322)	22.60	21.16	20.03	17.93
		1720 (132072)	22.40	20.97	19.86	17.77
	50RB-Middle (25)	1770 (132572)	22.08	20.67	19.57	17.52
		1745 (132322)	22.64	21.19	20.07	17.96
		1720 (132072)	22.36	20.93	19.82	17.74
	50RB-Low (0)	1770 (132572)	22.16	20.74	19.64	17.58
		1745 (132322)	22.73	21.28	20.15	18.03
		1720 (132072)	22.54	21.10	19.98	17.88
	100RB (0)	1770 (132572)	21.98	20.58	19.58	17.54
		1745 (132322)	22.42	20.99	19.87	17.78
		1720 (132072)	21.90	20.50	19.51	17.53

LTE Band66 ANT5_C

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	20.71	21.25	20.85	18.29
		1745 (132322)	20.81	21.14	21.02	18.15
		1710.7 (131979)	20.96	21.43	21.12	18.29
	1RB-Middle (3)	1779.3 (132665)	20.75	21.35	20.94	17.94
		1745 (132322)	20.82	21.25	20.90	18.46
		1710.7 (131979)	21.02	21.56	21.24	18.14
	1RB-Low (0)	1779.3 (132665)	20.66	20.96	20.80	18.14
		1745 (132322)	20.84	21.25	20.96	18.02
		1710.7 (131979)	20.95	21.31	21.17	18.22
	3RB-High (3)	1779.3 (132665)	20.77	21.04	20.77	18.35
		1745 (132322)	20.81	20.97	20.90	18.22
		1710.7 (131979)	21.09	21.28	21.09	17.92
	3RB-Middle (1)	1779.3 (132665)	20.74	20.91	20.81	18.36
		1745 (132322)	20.91	21.14	20.87	18.20
		1710.7 (131979)	20.99	21.20	21.12	18.15
	3RB-Low (0)	1779.3 (132665)	20.75	21.00	20.82	18.46
		1745 (132322)	20.87	21.00	20.85	18.27
		1710.7 (131979)	20.98	21.16	21.01	18.40
	6RB (0)	1779.3 (132665)	20.83	20.93	20.82	18.13
		1745 (132322)	20.89	21.02	20.93	17.98
		1710.7 (131979)	21.02	21.17	21.01	18.12
3MHz	1RB-High (14)	1778.5 (132657)	20.81	21.12	20.90	18.35
		1745 (132322)	20.87	21.22	20.94	18.07
		1711.5 (131987)	20.96	21.19	21.15	18.40
	1RB-Middle (7)	1778.5 (132657)	20.84	21.36	20.90	18.30
		1745 (132322)	20.85	21.32	21.18	17.92
		1711.5 (131987)	21.04	21.54	21.29	17.94
	1RB-Low (0)	1778.5 (132657)	20.73	21.05	21.07	18.29
		1745 (132322)	20.77	21.14	21.00	18.18
		1711.5 (131987)	20.93	21.45	20.99	18.02
	8RB-High (7)	1778.5 (132657)	20.81	20.90	20.82	18.05
		1745 (132322)	20.83	21.01	20.91	18.42
		1711.5 (131987)	21.09	21.20	21.02	17.98
	8RB-Middle (4)	1778.5 (132657)	20.80	20.95	20.82	18.10
		1745 (132322)	20.85	21.01	20.94	18.40
		1711.5 (131987)	21.11	21.19	21.14	18.49
	8RB-Low (0)	1778.5 (132657)	20.76	20.86	20.81	18.45
		1745 (132322)	20.90	21.09	20.86	18.34
		1711.5 (131987)	21.07	21.21	21.11	18.50
	15RB (0)	1778.5 (132657)	20.87	20.83	20.81	18.03
		1745 (132322)	20.94	21.05	20.87	18.05
		1711.5 (131987)	21.09	21.13	21.09	18.50

5MHz	1RB-High (24)	1777.5 (132647)	20.73	21.13	20.84	18.20
		1745 (132322)	20.82	21.25	20.84	18.34
		1712.5 (131997)	20.91	21.48	21.10	18.39
	1RB-Middle (12)	1777.5 (132647)	20.78	21.09	20.90	18.22
		1745 (132322)	20.90	21.29	20.99	18.17
		1712.5 (131997)	20.99	21.53	21.22	17.98
	1RB-Low (0)	1777.5 (132647)	20.72	21.12	20.63	18.21
		1745 (132322)	20.77	21.36	20.89	17.94
		1712.5 (131997)	21.04	21.35	21.09	18.28
	12RB-High (13)	1777.5 (132647)	20.83	20.92	20.82	18.17
		1745 (132322)	20.90	21.00	20.87	17.93
		1712.5 (131997)	21.02	21.21	20.94	18.06
	12RB-Middle (6)	1777.5 (132647)	20.81	20.88	20.77	18.01
		1745 (132322)	20.94	20.99	20.84	18.27
		1712.5 (131997)	21.07	21.26	21.03	17.94
	12RB-Low (0)	1777.5 (132647)	20.71	20.77	20.66	18.32
		1745 (132322)	20.89	21.04	20.86	18.08
		1712.5 (131997)	21.03	21.22	20.99	18.21
	25RB (0)	1777.5 (132647)	20.73	20.82	20.61	18.07
		1745 (132322)	20.92	20.94	20.87	17.94
		1712.5 (131997)	21.12	21.19	21.10	18.13
10MHz	1RB-High (49)	1775 (132622)	20.76	21.21	20.94	17.90
		1745 (132322)	20.82	21.11	21.08	18.31
		1715 (132022)	20.98	21.34	21.04	18.09
	1RB-Middle (24)	1775 (132622)	20.83	21.04	21.04	18.15
		1745 (132322)	20.94	21.30	20.89	18.04
		1715 (132022)	21.09	21.38	21.11	18.35
	1RB-Low (0)	1775 (132622)	20.86	20.93	20.65	18.04
		1745 (132322)	20.83	21.36	20.99	18.26
		1715 (132022)	20.99	21.41	21.03	18.43
	25RB-High (25)	1775 (132622)	20.80	20.94	20.85	18.11
		1745 (132322)	20.92	21.01	20.90	18.35
		1715 (132022)	21.07	21.20	21.00	17.95
	25RB-Middle (12)	1775 (132622)	20.86	20.92	20.80	18.20
		1745 (132322)	20.95	21.02	20.93	17.97
		1715 (132022)	21.13	21.16	21.05	18.32
	25RB-Low (0)	1775 (132622)	20.82	20.88	20.80	18.21
		1745 (132322)	20.77	20.99	20.82	17.95
		1715 (132022)	21.04	21.16	21.05	18.21
	50RB (0)	1775 (132622)	20.80	20.86	20.75	18.37
		1745 (132322)	20.75	20.85	20.86	18.03
		1715 (132022)	21.02	21.18	21.05	18.17

15MHz	1RB-High (74)	1772.5 (132597)	20.44	20.84	20.53	18.03
		1745 (132322)	20.74	21.08	20.72	18.43
		1717.5 (132047)	20.82	21.12	20.83	18.23
	1RB-Middle (37)	1772.5 (132597)	20.64	21.02	20.53	18.06
		1745 (132322)	20.70	21.16	20.74	18.24
		1717.5 (132047)	20.86	21.20	20.89	18.31
	1RB-Low (0)	1772.5 (132597)	20.54	20.91	20.58	18.05
		1745 (132322)	20.68	20.85	20.84	18.09
		1717.5 (132047)	20.86	21.12	20.76	17.92
	36RB-High (38)	1772.5 (132597)	20.61	20.69	20.53	18.14
		1745 (132322)	20.76	20.74	20.68	18.22
		1717.5 (132047)	20.90	20.86	20.77	18.12
	36RB-Middle (19)	1772.5 (132597)	20.63	20.63	20.43	17.95
		1745 (132322)	20.67	20.67	20.62	18.33
		1717.5 (132047)	20.92	20.96	20.80	18.14
	36RB-Low (0)	1772.5 (132597)	20.50	20.50	20.53	17.99
		1745 (132322)	20.68	20.63	20.66	17.92
		1717.5 (132047)	20.93	20.99	20.81	18.21
	75RB (0)	1772.5 (132597)	20.55	20.54	20.49	17.94
		1745 (132322)	20.59	20.69	20.63	18.09
		1717.5 (132047)	20.87	20.92	20.74	18.10
20MHz	1RB-High (99)	1770 (132572)	20.53	20.79	20.45	17.62
		1745 (132322)	21.31	21.50	21.32	19.32
		1720 (132072)	20.95	21.23	20.86	18.90
	1RB-Middle (50)	1770 (132572)	20.56	20.83	20.48	18.55
		1745 (132322)	20.99	21.27	20.90	18.94
		1720 (132072)	20.52	20.79	20.44	18.51
	1RB-Low (0)	1770 (132572)	20.29	20.56	20.21	18.31
		1745 (132322)	21.25	21.53	21.16	19.17
		1720 (132072)	20.93	21.21	20.84	18.88
	50RB-High (50)	1770 (132572)	20.29	20.33	19.79	17.69
		1745 (132322)	20.99	21.03	20.47	18.30
		1720 (132072)	20.78	20.82	20.27	18.12
	50RB-Middle (25)	1770 (132572)	20.49	20.53	19.99	17.86
		1745 (132322)	21.07	21.11	20.55	18.37
		1720 (132072)	20.74	20.78	20.23	18.08
	50RB-Low (0)	1770 (132572)	20.57	20.61	20.06	17.93
		1745 (132322)	21.19	21.23	20.67	18.47
		1720 (132072)	20.88	20.92	20.37	18.20
	100RB (0)	1770 (132572)	20.40	20.44	19.90	17.79
		1745 (132322)	21.02	21.06	20.50	18.33
		1720 (132072)	21.14	21.18	20.62	18.43

LTE Band71 ANT2_A/B/C/D/E

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	695.5 (133447)	23.20	21.78	21.06	18.20
		680.5 (133297)	23.28	21.84	21.00	18.14
		665.5 (133147)	23.33	21.84	21.17	18.30
	1RB-Middle (12)	695.5 (133447)	23.33	21.83	21.05	18.19
		680.5 (133297)	23.41	22.01	20.94	18.10
		665.5 (133147)	23.41	21.89	21.18	18.30
	1RB-Low (0)	695.5 (133447)	23.29	21.81	20.99	18.13
		680.5 (133297)	23.35	21.94	21.02	18.16
		665.5 (133147)	22.74	21.59	20.66	17.52
	12RB-High (13)	695.5 (133447)	22.36	20.71	19.91	18.13
		680.5 (133297)	22.42	20.84	19.97	18.18
		665.5 (133147)	22.55	20.89	20.04	18.25
	12RB-Middle (6)	695.5 (133447)	22.33	20.66	20.02	18.23
		680.5 (133297)	22.37	20.82	19.94	18.16
		665.5 (133147)	22.51	20.96	20.08	18.29
	12RB-Low (0)	695.5 (133447)	22.36	20.64	19.90	18.12
		680.5 (133297)	22.40	20.68	19.98	18.19
		665.5 (133147)	22.47	20.75	20.05	18.25
	25RB (0)	695.5 (133447)	22.28	20.55	19.79	18.02
		680.5 (133297)	22.44	20.73	19.97	18.18
		665.5 (133147)	22.50	20.81	20.03	18.24
10MHz	1RB-High (49)	693 (133422)	23.28	21.95	20.88	18.05
		680.5 (133297)	23.23	21.95	20.93	18.09
		668 (133172)	22.57	21.77	20.95	18.05
	1RB-Middle (24)	693 (133422)	23.30	21.95	20.98	18.12
		680.5 (133297)	23.36	22.04	21.23	18.34
		668 (133172)	23.02	21.67	21.07	18.21
	1RB-Low (0)	693 (133422)	22.72	21.58	20.52	17.73
		680.5 (133297)	23.53	21.99	20.66	17.66
		668 (133172)	23.02	21.68	20.58	17.70
	25RB-High (25)	693 (133422)	22.37	20.64	19.86	18.09
		680.5 (133297)	22.48	20.80	19.96	18.17
		668 (133172)	22.39	20.85	19.58	17.83
	25RB-Middle (12)	693 (133422)	22.37	20.70	19.92	18.14
		680.5 (133297)	22.34	20.78	19.93	18.15
		668 (133172)	22.44	20.83	20.06	18.27
	25RB-Low (0)	693 (133422)	22.39	20.72	19.90	18.12
		680.5 (133297)	22.43	20.78	19.98	18.19
		668 (133172)	22.48	20.90	19.97	18.18
	50RB (0)	693 (133422)	22.35	20.67	19.91	18.13
		680.5 (133297)	22.34	20.63	20.01	18.22
		668 (133172)	22.62	20.63	20.04	18.25

15MHz	1RB-High (74)	690.5 (133397)	23.10	21.51	20.81	17.98
		680.5 (133297)	22.63	21.57	20.56	17.77
		670.5 (133197)	23.21	21.94	20.88	18.05
	1RB-Middle (37)	690.5 (133397)	22.93	21.61	20.73	17.92
		680.5 (133297)	23.23	21.69	20.86	18.03
		670.5 (133197)	23.08	21.76	20.90	17.86
	1RB-Low (0)	690.5 (133397)	23.22	21.68	20.78	17.96
		680.5 (133297)	22.99	21.56	20.67	17.86
		670.5 (133197)	23.39	21.87	20.84	18.01
	36RB-High (38)	690.5 (133397)	22.24	20.56	19.74	17.97
		680.5 (133297)	22.27	20.63	19.91	18.12
		670.5 (133197)	22.32	20.64	19.86	18.09
	36RB-Middle (19)	690.5 (133397)	22.24	20.51	19.80	18.03
		680.5 (133297)	22.32	20.56	19.79	18.02
		670.5 (133197)	21.93	20.55	19.66	17.91
	36RB-Low (0)	690.5 (133397)	22.31	20.65	19.83	18.06
		680.5 (133297)	22.36	20.64	19.88	18.10
		670.5 (133197)	22.44	20.72	19.97	18.18
	75RB (0)	690.5 (133397)	22.32	20.59	19.67	17.92
		680.5 (133297)	22.26	20.62	19.94	18.16
		670.5 (133197)	22.51	20.73	20.08	18.29
20MHz	1RB-High (99)	688 (133372)	23.27	21.87	20.62	17.82
		683 (133322)	23.08	21.85	20.70	17.89
		673 (133222)	23.08	21.79	21.15	18.28
	1RB-Middle (50)	688 (133372)	23.21	21.78	20.53	17.73
		683 (133322)	23.22	21.86	20.77	17.95
		673 (133222)	23.17	21.57	20.58	17.64
	1RB-Low (0)	688 (133372)	23.27	21.76	21.05	18.19
		683 (133322)	23.15	21.97	21.03	18.18
		673 (133222)	23.05	22.04	21.01	18.15
	50RB-High (50)	688 (133372)	22.17	20.56	19.80	18.03
		683 (133322)	22.26	20.52	19.80	18.03
		673 (133222)	22.22	20.56	19.91	18.13
	50RB-Middle (25)	688 (133372)	22.27	20.60	19.87	18.09
		683 (133322)	22.32	20.62	19.85	18.08
		673 (133222)	22.26	20.78	19.99	18.20
	50RB-Low (0)	688 (133372)	22.24	20.64	19.81	18.04
		683 (133322)	22.23	20.70	19.87	18.09
		673 (133222)	22.19	20.66	20.00	18.21
	100RB (0)	688 (133372)	22.33	20.57	19.88	18.10
		683 (133322)	22.20	20.68	19.76	18.00
		673 (133222)	22.28	20.72	20.01	18.22

LTE Carrier Aggregation Conducted Power (Uplink)

2C ANT1 A/C/E

UL LTE CA Class	PCC					SCC				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	UL RB	UL RB OFFSET	tune up	conducted power (dBm)
CA_2C	20M	18700	700	1	99	5M	817	1	0	24.5	23.01
CA_2C	20M	18700	700	1	99	10M	844	1	0	24.5	22.96
CA_2C	20M	18700	700	1	99	15M	871	1	0	24.5	23.06
CA_2C	20M	18700	700	1	99	20M	898	1	0	24.5	23.08
CA_2C	20M	19100	1900	1	0	5M	983	1	24	24.5	23.10
CA_2C	20M	19100	1900	1	0	10M	956	1	49	24.5	23.02
CA_2C	20M	19100	1900	1	0	75	929	1	74	24.5	23.00
CA_2C	20M	19100	1900	1	0	20M	902	1	99	24.5	23.14

2C ANT1 B

UL LTE CA Class	PCC					SCC				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	UL RB	UL RB OFFSET	tune up	conducted power (dBm)
CA_2C	20M	18700	700	1	99	5M	817	1	0	23.5	22.09
CA_2C	20M	18700	700	1	99	10M	844	1	0	23.5	22.06
CA_2C	20M	18700	700	1	99	15M	871	1	0	23.5	22.17
CA_2C	20M	18700	700	1	99	20M	898	1	0	23.5	22.19
CA_2C	20M	19100	1900	1	0	5M	983	1	24	23.5	22.02
CA_2C	20M	19100	1900	1	0	10M	956	1	49	23.5	22.09
CA_2C	20M	19100	1900	1	0	75	929	1	74	23.5	21.93
CA_2C	20M	19100	1900	1	0	20M	902	1	99	23.5	22.04

2C ANT1 D

UL LTE CA Class	PCC					SCC				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	UL RB	UL RB OFFSET	tune up	conducted power (dBm)
CA_2C	20M	18700	700	1	99	5M	817	1	0	20	18.87
CA_2C	20M	18700	700	1	99	10M	844	1	0	20	18.78
CA_2C	20M	18700	700	1	99	15M	871	1	0	20	18.84
CA_2C	20M	18700	700	1	99	20M	898	1	0	20	18.81
CA_2C	20M	19100	1900	1	0	5M	983	1	24	20	18.8
CA_2C	20M	19100	1900	1	0	10M	956	1	49	20	18.03
CA_2C	20M	19100	1900	1	0	75	929	1	74	20	18.68
CA_2C	20M	19100	1900	1	0	20M	902	1	99	20	18.89

66C ANT1 A/C/E

UL LTE CA Class	PCC					SCC				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	UL RB	UL RB OFFSET	tune up	conducted power (dBm)
CA_66C	15M	132047	66511	1	74	10M	66631	1	0	24.5	22.83
CA_66C	20M	132072	66536	1	99	10M	66680	1	0	24.5	22.90
CA_66C	15M	132072	66511	1	74	15M	66661	1	0	24.5	22.63
CA_66C	20M	132072	66536	1	99	5M	66653	1	0	24.5	22.76
CA_66C	20M	132072	66536	1	99	20M	66734	1	0	24.5	22.98

66C ANT1 B

UL LTE CA Class	PCC					SCC				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	UL RB	UL RB OFFSET	tune up	conducted power (dBm)
CA_66C	15M	132047	66511	1	74	10M	66631	1	0	22.5	21.58
CA_66C	20M	132072	66536	1	99	10M	66680	1	0	22.5	21.53
CA_66C	15M	132072	66511	1	74	15M	66661	1	0	22.5	21.49
CA_66C	20M	132072	66536	1	99	5M	66653	1	0	22.5	21.56
CA_66C	20M	132072	66536	1	99	20M	66734	1	0	22.5	21.44

66C ANT1 D

UL LTE CA Class	PCC					SCC				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	UL RB	UL RB OFFSET	tune up	conducted power (dBm)
CA_66C	15M	132047	66511	1	74	10M	66631	1	0	19.5	18.59
CA_66C	20M	132072	66536	1	99	10M	66680	1	0	19.5	18.51
CA_66C	15M	132072	66511	1	74	15M	66661	1	0	19.5	18.67
CA_66C	20M	132072	66536	1	99	5M	66653	1	0	19.5	18.56
CA_66C	20M	132072	66536	1	99	20M	66734	1	0	19.5	18.47

66B ANT1 A/C/E

UL LTE CA Class	PCC					SCC				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	UL RB	UL RB OFFSET	tune up	conducted power (dBm)
CA_66B	15M	132047	66511	1	74	5M	66604	1	0	24.5	22.93
CA_66B	15M	132597	67061	1	74	5M	66968	1	0	24.5	22.81
CA_66B	15M	132047	66511	1	0	5M	66604	1	24	24.5	22.85
CA_66B	15M	132597	67061	1	0	5M	66968	1	24	24.5	22.78

66B ANT1 B

UL LTE CA Class	PCC					SCC				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	UL RB	UL RB OFFSET	tune up	conducted power (dBm)
CA_66B	15M	132047	66511	1	74	5M	66604	1	0	22.5	21.69
CA_66B	15M	132597	67061	1	74	5M	66968	1	0	22.5	21.42
CA_66B	15M	132047	66511	1	0	5M	66604	1	24	22.5	21.66
CA_66B	15M	132597	67061	1	0	5M	66968	1	24	22.5	21.53

66B ANT1 D

UL LTE CA Class	PCC					SCC				Power	
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	UL RB	UL RB OFFSET	tune up	conducted power (dBm)
CA_66B	15M	132047	66511	1	74	5M	66604	1	0	19.5	18.63
CA_66B	15M	132597	67061	1	74	5M	66968	1	0	19.5	18.42
CA_66B	15M	132047	66511	1	0	5M	66604	1	24	19.5	18.59
CA_66B	15M	132597	67061	1	0	5M	66968	1	24	19.5	18.66

11.4 NR 5G Measurement result

N2 ANT1_A/C/E

No.	Test Freq Description	5G-n2								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n2
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	24.50	23.09
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	24.50	23.10
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	24.50	22.99
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	24.50	22.98
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	24.50	23.05
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	24.50	23.02
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n2								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n2
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1880	376000	24.50	23.05
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	23.50	22.09
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	22.00	20.42
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	20.00	18.62
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	23.00	21.62
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	22.50	21.05
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	21.00	19.49
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	18.00	16.45
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1880	376000	23.50	21.92
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	23.50	22.08
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1880	376000	23.50	22.09
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	23.50	22.12
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1880	376000	24.50	23.04
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	24.50	23.08
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	23.50	23.11
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	24.50	23.05
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	24.50	23.08

N2 ANT1_B/D

No.	Test Freq Description	5G-n2								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n2
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	22.00	20.84
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	22.00	20.85
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	22.00	20.75
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	22.00	20.74
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	22.00	20.80
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	22.00	20.78
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n2								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n2
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1880	376000	22.00	20.80
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	22.00	20.80
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	22.00	20.70
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	20.00	18.79
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	22.00	20.90
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	22.00	20.78
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	21.00	19.70
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	18.00	16.67
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1880	376000	22.00	20.70
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	22.00	20.84
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1880	376000	22.00	20.76
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	22.00	20.83
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1880	376000	22.00	20.74
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	22.00	20.75
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	22.00	20.64
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	22.00	20.80
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	22.00	20.83

N2 ANT5_E

No.	Test Freq Description	5G-n2							Tune up	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	24.50	23.45
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	24.50	23.55
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	24.50	23.51
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	24.50	23.56
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	24.50	23.57
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	24.50	23.52

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n2							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n2
1	Middle	15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50_25	1880	376000	24.50	23.45
2	Middle	15	20	DFT-s-OFDM 16QAM	Inner_Full	50_25	1880	376000	23.50	21.94
3	Middle	15	20	DFT-s-OFDM 64QAM	Inner_Full	50_25	1880	376000	22.00	21.42
4	Middle	15	20	DFT-s-OFDM 256QAM	Inner_Full	50_25	1880	376000	20.00	19.2
5	Middle	15	20	CP-OFDM QPSK	Inner_Full	50_25	1880	376000	23.00	21.09
6	Middle	15	20	CP-OFDM 16QAM	Inner_Full	50_25	1880	376000	22.50	20.99
7	Middle	15	20	CP-OFDM 64QAM	Inner_Full	50_25	1880	376000	21.00	20.47
8	Middle	15	20	CP-OFDM 256QAM	Inner_Full	50_25	1880	376000	18.00	17.20
9	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_104	1880	376000	23.50	22.49
10	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	23.50	22.41
11	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	1880	376000	23.50	22.54
12	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	23.50	22.42
13	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_104	1880	376000	24.50	23.54
14	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	24.50	23.52
15	Middle	15	20	DFT-s-OFDM QPSK	Outer_Full	100_0	1880	376000	23.50	22.46
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	24.50	23.53
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	24.50	23.56

N2 ANT5_C

No.	Test Freq Description	5G-n2							Tune up	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	19.00	18.45
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	19.00	18.52
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	19.00	18.50
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	19.00	18.54
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	19.00	18.55
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	19.00	18.51

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n2							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n2
1	Middle	15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50_25	1880	376000	19.00	18.51
2	Middle	15	20	DFT-s-OFDM 16QAM	Inner_Full	50_25	1880	376000	19.00	18.47
3	Middle	15	20	DFT-s-OFDM 64QAM	Inner_Full	50_25	1880	376000	19.00	18.51
4	Middle	15	20	DFT-s-OFDM 256QAM	Inner_Full	50_25	1880	376000	19.00	18.53
5	Middle	15	20	CP-OFDM QPSK	Inner_Full	50_25	1880	376000	19.00	18.53
6	Middle	15	20	CP-OFDM 16QAM	Inner_Full	50_25	1880	376000	19.00	18.50
7	Middle	15	20	CP-OFDM 64QAM	Inner_Full	50_25	1880	376000	19.00	18.52
8	Middle	15	20	CP-OFDM 256QAM	Inner_Full	50_25	1880	376000	18.00	17.55
9	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880	376000	19.00	18.42
10	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	19.00	18.40
11	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	1880	376000	19.00	18.40
12	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	19.00	18.35
13	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880	376000	19.00	18.42
14	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	19.00	18.41
15	Middle	15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	1880	376000	19.00	18.42
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	19.00	18.42
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	19.00	18.44

N2 ANT5_D

No.	Test Freq Description	5G-n2							Tune up	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	21.50	20.93
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	21.50	21.02
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	21.50	20.99
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	21.50	21.03
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	21.50	21.05
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	21.50	21.01

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n2							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n2
1	Middle	15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50_25	1880	376000	21.50	21.02
2	Middle	15	20	DFT-s-OFDM 16QAM	Inner_Full	50_25	1880	376000	21.50	21.03
3	Middle	15	20	DFT-s-OFDM 64QAM	Inner_Full	50_25	1880	376000	21.50	20.97
4	Middle	15	20	DFT-s-OFDM 256QAM	Inner_Full	50_25	1880	376000	20.00	19.51
5	Middle	15	20	CP-OFDM QPSK	Inner_Full	50_25	1880	376000	21.50	21.02
6	Middle	15	20	CP-OFDM 16QAM	Inner_Full	50_25	1880	376000	21.50	20.93
7	Middle	15	20	CP-OFDM 64QAM	Inner_Full	50_25	1880	376000	21.00	20.43
8	Middle	15	20	CP-OFDM 256QAM	Inner_Full	50_25	1880	376000	18.00	17.49
9	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880	376000	21.50	20.95
10	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	21.50	20.95
11	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	1880	376000	21.50	20.99
12	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	21.50	20.93
13	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880	376000	21.50	20.92
14	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	21.50	20.91
15	Middle	15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	1880	376000	21.50	20.92
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	21.50	20.95
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	21.50	20.93

N5 ANT5_A/B/C/D/E

No.	Test Freq Description	5G-n5							Tune up	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	24.50	22.83
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	24.50	22.95
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	826.5	165300	24.50	22.86
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	24.50	22.88
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	24.50	22.84
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	834	166800	24.50	22.90

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n5							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n5
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	836.5	167300	24.50	22.92
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	836.5	167300	23.50	21.97
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	836.5	167300	22.00	20.35
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	836.5	167300	20.00	18.48
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	836.5	167300	23.00	21.52
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	836.5	167300	22.50	20.98
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	836.5	167300	21.00	19.42
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	836.5	167300	18.00	16.45
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	836.5	167300	23.50	21.93
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	836.5	167300	23.50	21.92
11	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_24	836.5	167300	24.50	22.58
12	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	836.5	167300	24.50	22.93
13	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	836.5	167300	23.50	21.90
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_1RB_Left	25_12	836.5	167300	24.50	22.91
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_1RB_Left	36_18	836.5	167300	24.50	22.90

N7 ANT5_A/C

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2567.5	513500	17.50	16.60
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	17.50	16.74
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2502.5	500500	17.50	16.65
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2560	512000	17.50	16.75
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	17.50	16.81
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2510	502000	17.50	16.78

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	Middle	15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50_25	2535	507000	17.50	16.78
2	Middle	15	20	DFT-s-OFDM 16QAM	Inner_Full	50_25	2535	507000	17.50	16.73
3	Middle	15	20	DFT-s-OFDM 64QAM	Inner_Full	50_25	2535	507000	17.50	16.62
4	Middle	15	20	DFT-s-OFDM 256QAM	Inner_Full	50_25	2535	507000	17.50	16.76
5	Middle	15	20	CP-OFDM QPSK	Inner_Full	50_25	2535	507000	17.50	16.80
6	Middle	15	20	CP-OFDM 16QAM	Inner_Full	50_25	2535	507000	17.50	16.77
7	Middle	15	20	CP-OFDM 64QAM	Inner_Full	50_25	2535	507000	17.50	16.75
8	Middle	15	20	CP-OFDM 256QAM	Inner_Full	50_25	2535	507000	17.50	16.75
9	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_104	2535	507000	17.50	16.77
10	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	17.50	16.74
11	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	2535	507000	17.50	16.73
12	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2535	507000	17.50	16.77
11	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_104	2535	507000	17.50	16.70
12	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	17.50	16.78
13	Middle	15	20	DFT-s-OFDM QPSK	Outer_Full	100_0	2535	507000	17.50	16.79
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_1RB_Left	25_12	2535	507000	17.50	16.77
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_1RB_Left	36_18	2535	507000	17.50	16.78

N7 ANT5_B/D

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2567.5	513500	19.00	17.94
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	19.00	18.08
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2502.5	500500	19.00	18.00
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2560	512000	19.00	18.09
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	19.00	18.15
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2510	502000	19.00	18.11

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	Middle	15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50_25	2535	507000	19.00	18.09
2	Middle	15	20	DFT-s-OFDM 16QAM	Inner_Full	50_25	2535	507000	19.00	18.16
3	Middle	15	20	DFT-s-OFDM 64QAM	Inner_Full	50_25	2535	507000	19.00	18.02
4	Middle	15	20	DFT-s-OFDM 256QAM	Inner_Full	50_25	2535	507000	19.00	18.14
5	Middle	15	20	CP-OFDM QPSK	Inner_Full	50_25	2535	507000	19.00	18.12
6	Middle	15	20	CP-OFDM 16QAM	Inner_Full	50_25	2535	507000	19.00	18.07
7	Middle	15	20	CP-OFDM 64QAM	Inner_Full	50_25	2535	507000	19.00	18.09
8	Middle	15	20	CP-OFDM 256QAM	Inner_Full	50_25	2535	507000	18.00	17.09
9	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_104	2535	507000	20.00	18.11
10	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	19.00	18.09
11	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	2535	507000	19.00	18.14
12	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2535	507000	19.00	18.13
11	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_104	2535	507000	19.00	18.11
12	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	19.00	18.06
13	Middle	15	20	DFT-s-OFDM QPSK	Outer_Full	100_0	2535	507000	19.00	14.25
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_1RB_Left	25_12	2535	507000	19.00	18.04
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_1RB_Left	36_18	2535	507000	19.00	18.05

N7 ANT5_E

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2567.5	513500	24.50	23.21
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	24.50	23.40
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2502.5	500500	24.50	23.28
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2560	512000	24.50	23.41
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	24.50	23.49
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2510	502000	24.50	23.45

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	Middle	15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50_25	2535	507000	24.50	23.46
2	Middle	15	20	DFT-s-OFDM 16QAM	Inner_Full	50_25	2535	507000	23.50	22.38
3	Middle	15	20	DFT-s-OFDM 64QAM	Inner_Full	50_25	2535	507000	22.00	20.95
4	Middle	15	20	DFT-s-OFDM 256QAM	Inner_Full	50_25	2535	507000	20.00	18.92
5	Middle	15	20	CP-OFDM QPSK	Inner_Full	50_25	2535	507000	23.00	21.93
6	Middle	15	20	CP-OFDM 16QAM	Inner_Full	50_25	2535	507000	22.50	21.44
7	Middle	15	20	CP-OFDM 64QAM	Inner_Full	50_25	2535	507000	21.00	19.86
8	Middle	15	20	CP-OFDM 256QAM	Inner_Full	50_25	2535	507000	18.00	16.85
9	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_104	2535	507000	23.50	22.53
10	Middle	15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	23.50	22.59
11	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_105	2535	507000	23.50	22.58
12	Middle	15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2535	507000	23.50	22.54
11	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_104	2535	507000	24.50	23.34
12	Middle	15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	24.50	23.45
13	Middle	15	20	DFT-s-OFDM QPSK	Outer_Full	100_0	2535	507000	23.50	22.39
14	Middle	15	10	DFT-s-OFDM QPSK	Inner_1RB_Left	25_12	2535	507000	24.50	23.44
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_1RB_Left	36_18	2535	507000	24.50	23.46

N25 ANT1_A/C/E

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n25
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	24.50	23.05
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	24.50	23.10
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	24.50	23.07
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	24.50	23.08
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	24.50	23.09
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	24.50	23.05

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n25
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	24.50	23.06
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	23.50	22.09
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	22.00	20.35
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	20.00	18.61
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	23.00	21.53
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	22.50	21.07
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.00	19.49
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	18.00	16.55
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	23.50	23.09
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	23.50	22.06
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	23.50	23.05
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	23.50	21.99
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	24.50	23.05
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	24.50	23.09
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	23.50	21.99
14	High	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	382000	24.50	23.05
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	24.50	23.04
16	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	371000	24.50	23.07
17	High	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1882.5	381500	24.50	23.05
18	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1882.5	376500	24.50	23.08

N25 ANT1_B/D

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n25
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	22.00	20.88
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	22.00	20.96
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	22.00	20.90
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	22.00	20.91
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	22.00	20.92
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	22.00	20.88

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n25
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	22.00	20.89
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	22.00	20.93
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	22.00	20.79
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	20.00	18.94
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	22.00	20.94
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	22.00	20.93
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.00	19.88
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	18.00	16.85
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	22.00	20.92
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	22.00	20.91
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	22.00	20.88
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	22.00	20.92
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	22.00	20.88
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	22.00	20.92
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	22.00	20.90
14	High	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	382000	22.00	20.88
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	22.00	20.88
16	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	371000	22.00	20.90
17	High	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1882.5	381500	22.00	20.88
18	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1882.5	376500	22.00	20.91

N25 ANT5_E

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n25
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	24.50	23.06
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	24.50	23.17
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	24.50	23.06
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	24.50	23.11
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	24.50	23.11
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	24.50	23.14

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n25
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	24.50	23.10
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	23.50	22.08
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	22.00	20.43
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	20.00	18.62
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	23.00	21.63
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	22.50	21.08
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.00	19.52
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	18.00	16.55
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	23.50	22.08
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	23.50	22.00
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	23.50	22.19
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	23.50	22.12
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	24.50	23.13
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	24.50	23.12
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	23.50	22.06
14	High	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	382000	24.50	23.11
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	24.50	23.12
16	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	371000	24.50	23.15
17	High	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1882.5	381500	24.50	23.11
18	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1882.5	376500	24.50	23.13

N25 ANT5_C

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n25
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	16.00	14.98
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	16.00	15.05
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	16.00	14.98
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	16.00	15.01
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	16.00	15.01
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	16.00	15.03

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n25
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	16.00	15.00
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	16.00	15.04
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	16.00	14.97
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	16.00	14.99
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	16.00	15.03
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	16.00	15.02
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	16.00	14.98
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	16.00	14.95
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	16.00	14.94
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	16.00	14.99
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	16.00	14.91
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	16.00	14.97
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	16.00	15.02
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	16.00	15.02
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	16.00	15.03
14	High	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	382000	16.00	15.01
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	16.00	15.02
16	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	371000	16.00	15.04
17	High	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1882.5	381500	16.00	15.01
18	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1882.5	376500	16.00	15.02

N25 ANT5_D

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n25
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	22.00	21.08
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	22.00	21.15
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	22.00	21.05
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	22.00	21.10
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	22.00	21.05
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	22.00	21.12

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n25
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	22.00	21.02
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	22.00	21.02
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	22.00	20.92
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	20.00	19.04
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	23.00	21.12
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	22.50	21.04
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.00	20.01
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	18.00	16.95
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	22.00	21.06
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	22.00	21.08
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	22.00	21.11
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	22.00	21.09
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	22.00	21.11
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	22.00	21.10
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	22.00	21.14
14	High	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	382000	22.00	21.10
15	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	22.00	21.10
16	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	371000	22.00	21.13
17	High	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1882.5	381500	22.00	21.10
18	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1882.5	376500	22.00	21.11

N41 ANT5_E

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2685	537000	27	25.80
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2638.99	527799	27	25.79
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	27	25.83
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2546.99	509397	27	25.74
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500202	27	25.70
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	27	25.90
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	27	25.92
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	27	26.00
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	27	25.96
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	27	25.89
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	Middle2	30	100	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135_67	2592.99	518598	27	25.81
2	Middle2	30	100	DFT-s-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	26	24.82
3	Middle2	30	100	DFT-s-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	24.5	23.22
4	Middle2	30	100	DFT-s-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	22.5	21.23
5	Middle2	30	100	CP-OFDM QPSK	Inner_Full	135_67	2592.99	518598	25.5	24.31
6	Middle2	30	100	CP-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	25	23.70
7	Middle2	30	100	CP-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	23.5	22.20
8	Middle2	30	100	CP-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	20.5	19.14
9	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	23.5	22.40
10	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	23.5	22.13
11	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1@272	2592.99	518598	23.5	22.49
12	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	23.5	22.22
13	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	27	25.53
14	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	27	25.73
15	Middle	30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	26	24.70
16	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	27	25.78
16	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	27	25.79
16	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	27	25.77
17	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	27	25.75
18	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	27	25.77
19	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	27	25.78
20	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	27	25.76
21	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	27	25.77
22	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	27	25.80

N41 ANT5_A/B

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2685	537000	21	19.57
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2638.99	527799	21	19.70
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	21	19.77
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2546.99	509397	21	19.73
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500202	21	19.74
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	21	19.67
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	21	19.68
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	21	19.78
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	21	19.64
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	21	19.68
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	Middle2	30	100	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135_67	2592.99	518598	21	19.68
2	Middle2	30	100	DFT-s-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	21	19.63
3	Middle2	30	100	DFT-s-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	21	19.58
4	Middle2	30	100	DFT-s-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	21	19.69
5	Middle2	30	100	CP-OFDM QPSK	Inner_Full	135_67	2592.99	518598	21	19.74
6	Middle2	30	100	CP-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	21	19.68
7	Middle2	30	100	CP-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	21	19.34
8	Middle2	30	100	CP-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	20.5	19.67
9	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	21	19.69
10	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	21	19.37
11	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1@272	2592.99	518598	21	19.73
12	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	21	19.45
13	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	21	19.74
14	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	21	19.60
15	Middle	30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	21	19.55
16	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	21	19.57
16	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	21	19.58
16	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	21	19.56
17	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	21	19.54
18	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	21	19.56
19	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	21	19.57
20	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	21	19.55
21	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	21	19.56
22	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	21	19.59

N41 ANT5_C

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2685	537000	18	16.86
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2638.99	527799	18	16.98
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	18	17.04
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2546.99	509397	18	17.00
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500202	18	17.01
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	18	16.95
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	18	16.96
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	18	17.05
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	18	16.92
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	18	16.96
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	Middle2	30	100	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135_67	2592.99	518598	18	16.96
2	Middle2	30	100	DFT-s-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	18	16.92
3	Middle2	30	100	DFT-s-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	18	16.87
4	Middle2	30	100	DFT-s-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	18	16.97
5	Middle2	30	100	CP-OFDM QPSK	Inner_Full	135_67	2592.99	518598	18	17.01
6	Middle2	30	100	CP-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	18	16.96
7	Middle2	30	100	CP-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	18	16.96
8	Middle2	30	100	CP-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	18	16.95
9	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	18	16.97
10	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	18	16.70
11	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1@272	2592.99	518598	18	17.00
12	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	18	16.97
13	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	18	17.01
14	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	18	16.89
15	Middle	30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	18	16.86
16	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	18	16.86
16	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	18	16.87
16	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	18	16.86
17	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	18	16.85
18	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	18	16.86
19	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	18	16.80
20	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	18	16.83
21	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	18	16.86
22	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	18	16.88

N41 ANT5_D

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2685	537000	18.5	17.33
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2638.99	527799	18.5	17.45
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	18.5	17.51
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2546.99	509397	18.5	17.47
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500202	18.5	17.48
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	18.5	17.42
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	18.5	17.43
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	18.5	17.52
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	18.5	17.39
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	18.5	17.43
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	Middle2	30	100	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135_67	2592.99	518598	18.5	17.43
2	Middle2	30	100	DFT-s-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	18.5	17.39
3	Middle2	30	100	DFT-s-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	18.5	17.34
4	Middle2	30	100	DFT-s-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	18.5	17.44
5	Middle2	30	100	CP-OFDM QPSK	Inner_Full	135_67	2592.99	518598	18.5	17.48
6	Middle2	30	100	CP-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	18.5	17.43
7	Middle2	30	100	CP-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	18.5	17.43
8	Middle2	30	100	CP-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	18.5	17.42
9	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	18.5	17.44
10	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	18.5	17.46
11	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1@272	2592.99	518598	18.5	17.47
12	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	18.5	17.43
13	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	18.5	17.48
14	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	18.5	17.36
15	Middle	30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	18.5	17.32
16	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	18.5	17.33
16	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	18.5	17.34
16	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	18.5	17.32
17	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	18.5	17.31
18	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	18.5	17.30
19	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	18.5	17.33
20	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	18.5	17.32
21	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	18.5	17.32
22	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	18.5	17.35

N66 ANT1_A/C/E

No.	Test Freq Description	5G-n66								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n66
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1777.5	355500	24.50	22.91
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	24.50	22.98
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	24.50	22.97
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1760	352000	24.50	22.93
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1745	349000	24.50	22.95
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1730	346000	24.50	22.89
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n66								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n66
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1745	349000	24.50	22.93
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	23.50	21.99
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	22.00	20.33
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	20.00	18.47
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	23.00	21.53
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	22.50	20.99
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	21.00	19.39
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.00	16.39
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	23.50	21.93
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	23.50	21.96
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	23.50	22.00
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	23.50	22.03
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	24.50	23.05
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	24.50	23.04
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	23.50	21.98
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	24.50	22.79
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	24.50	22.81
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	24.50	22.95
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1745	349000	24.50	22.86
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1745	349000	24.50	22.9

N66 ANT1_B/D

No.	Test Freq Description	5G-n66							Tune up	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	22.00	20.81
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	22.00	20.89
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	22.00	20.84
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1760	352000	22.00	20.80
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1745	349000	22.00	20.82
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1730	346000	22.00	20.77

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n66
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1745	349000	22.00	20.80
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	22.00	20.84
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	22.00	20.76
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	20.00	18.95
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	22.00	20.88
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	22.00	20.86
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	21.00	19.81
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.00	16.83
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	22.00	20.83
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	22.00	20.82
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	22.00	20.86
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	22.00	20.84
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	22.00	20.86
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	22.00	20.85
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	22.00	20.84
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	22.00	20.68
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	22.00	20.70
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	22.00	20.82
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1745	349000	22.00	20.74
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1745	349000	22.00	20.78

N66 ANT5_E

No.	Test Freq Description	5G-n66							Tune up	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	24.50	23.05
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	24.50	23.17
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	24.50	23.14
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1760	352000	24.50	23.11
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1745	349000	24.50	23.07
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1730	346000	24.50	23.06

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n66
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1745	349000	24.50	23.02
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	23.50	22.09
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	22.00	20.39
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	20.00	18.56
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	23.00	21.63
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	22.50	20.99
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	21.00	19.43
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.00	16.39
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	23.50	21.93
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	23.50	21.97
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	23.50	22.02
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	23.50	22.06
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	24.50	23.07
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	24.50	23.10
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	23.50	22.06
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	24.50	23.11
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	24.50	23.11
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	24.50	23.13
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1745	349000	24.50	23.14
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1745	349000	24.50	23.15

N66 ANT5_C

No.	Test Freq Description	5G-n66							Tune up	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	17.00	15.78
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	17.00	15.86
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	17.00	15.84
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1760	352000	17.00	15.82
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1745	349000	17.00	15.79
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1730	346000	17.00	15.78

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n66
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1745	349000	17.00	15.75
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	17.00	15.75
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	17.00	15.75
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	17.00	15.79
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	17.00	15.78
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	17.00	15.77
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	17.00	15.74
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	17.00	15.75
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	17.00	15.77
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	17.00	15.79
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	17.00	15.83
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	17.00	15.84
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	17.00	15.79
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	17.00	15.81
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	17.00	15.84
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	17.00	15.82
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	17.00	15.82
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	17.00	15.83
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1745	349000	17.00	15.84
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1745	349000	17.00	15.84

N66 ANT5_D

No.	Test Freq Description	5G-n66							Tune up	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	22.00	21.04
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	22.00	21.15
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	22.00	21.12
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1760	352000	22.00	21.10
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1745	349000	22.00	21.06
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1730	346000	22.00	21.05

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n66
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1745	349000	22.00	21.01
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	22.00	21.00
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	22.00	21.01
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	20.00	19.17
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	22.00	21.09
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	22.00	21.03
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	21.00	20.14
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.00	17.11
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	22.00	21.03
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	22.00	21.06
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	22.00	21.11
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	22.00	21.13
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	22.00	21.06
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	22.00	21.09
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	22.00	21.12
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	22.00	21.10
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	22.00	21.10
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	22.00	21.11
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1745	349000	22.00	21.12
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1745	349000	22.00	21.13

N71 ANT5_A/B/C/D/E

No.	Test Freq Description	5G-n71							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n28
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	695.5	139100	24.50	23.15
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	680.5	136100	24.50	23.19
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	665.5	133100	24.50	23.09
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	688	137600	24.50	23.11
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	680.5	136100	24.50	23.14
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	673	134600	24.50	23.15

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n71							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n28
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	680.5	136100	24.50	23.19
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	680.5	136100	23.50	22.19
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	680.5	136100	22.00	20.55
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	680.5	136100	20.00	18.67
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	680.5	136100	23.00	21.75
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	680.5	136100	22.50	21.16
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	680.5	136100	21.00	19.65
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	680.5	136100	18.00	16.67
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	680.5	136100	23.50	22.11
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	680.5	136100	23.50	22.15
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	680.5	136100	23.50	22.19
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	680.5	136100	23.50	22.18
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	680.5	136100	24.50	23.22
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	680.5	136100	24.50	23.22
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	680.5	136100	23.50	22.13
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	680.5	136100	24.50	23.06
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	680.5	136100	24.50	23.07

N77-L ANT4_B/D

No.	Test Freq Description	5G-N77-L							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		N77-L
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3544.98	636332	27.00	25.17
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3500.01	633334	27.00	25.29
3	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3445.01	630334	27.00	25.09
4	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3500.01	633334	27.00	25.13

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-N77-L							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		N77-L
1	Middle	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	3500.01	633334	27.00	25.21
2	Middle	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3500.01	633334	26.00	24.35
3	Middle	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3500.01	633334	24.50	22.62
4	Middle	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3500.01	633334	22.50	20.79
5	Middle	30	10	CP-OFDM QPSK	Inner_Full	12_6	3500.01	633334	25.50	23.78
6	Middle	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3500.01	633334	25.00	23.24
7	Middle	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3500.01	633334	23.50	21.75
8	Middle	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3500.01	633334	20.50	18.73
9	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	3500.01	633334	23.50	21.83
10	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3500.01	633334	23.50	21.79
11	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	3500.01	633334	23.50	21.75
12	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3500.01	633334	23.50	21.76
13	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3500.01	633334	27.00	25.40
14	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3500.01	633334	27.00	25.16
15	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3500.01	633334	26.00	24.09
16	Middle	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3500.01	633334	27.00	25.05
17	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3500.01	633334	27.00	25.04
18	Middle	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3500.01	633334	27.00	25.08
19	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3470.01	631334	27.00	25.10
20	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	3475.02	631668	27.00	25.05
21	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3500.01	633334	27.00	25.08
22	Middle-5	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	3500.01	633334	27.00	25.07
23	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3500.01	633334	27.00	25.13
24	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	3500.01	633334	27.00	25.10

N77-L ANT4_A

No.	Test Freq Description	5G-N77-L							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		N77-L
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3544.98	636332	24.00	22.60
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3500.01	633334	24.00	22.68
3	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3445.01	630334	24.00	22.63
4	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3500.01	633334	24.00	22.58

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-N77-L							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		N77-L
1	Middle	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	3500.01	633334	24.00	22.66
2	Middle	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3500.01	633334	24.00	22.69
3	Middle	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3500.01	633334	24.00	22.53
4	Middle	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3500.01	633334	22.50	21.15
5	Middle	30	10	CP-OFDM QPSK	Inner_Full	12_6	3500.01	633334	24.00	22.64
6	Middle	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3500.01	633334	24.00	22.63
7	Middle	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3500.01	633334	23.50	22.09
8	Middle	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3500.01	633334	20.50	19.08
9	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	3500.01	633334	23.50	22.17
10	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3500.01	633334	23.50	22.12
11	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	3500.01	633334	23.50	22.20
12	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3500.01	633334	23.50	22.16
13	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3500.01	633334	24.00	22.58
14	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3500.01	633334	24.00	22.56
15	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3500.01	633334	24.00	22.60
16	Middle	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3500.01	633334	24.00	22.54
17	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3500.01	633334	24.00	22.52
18	Middle	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3500.01	633334	24.00	22.56
19	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3470.01	631334	24.00	22.58
20	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	3475.02	631668	24.00	22.54
21	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3500.01	633334	24.00	22.56
22	Middle-5	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	3500.01	633334	24.00	22.51
23	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3500.01	633334	24.00	22.56
24	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	3500.01	633334	24.00	22.58

N77-L ANT4_C

No.	Test Freq Description	5G-N77-L								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	N77-L
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3544.98	636332	21.00	19.60
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3500.01	633334	21.00	19.67
3	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3445.01	630334	21.00	19.63
4	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3500.01	633334	21.00	19.50

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-N77-L								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	N77-L
1	Middle	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	3500.01	633334	21.00	19.58
2	Middle	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3500.01	633334	21.00	19.60
3	Middle	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3500.01	633334	21.00	19.57
4	Middle	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3500.01	633334	21.00	19.65
5	Middle	30	10	CP-OFDM QPSK	Inner_Full	12_6	3500.01	633334	21.00	19.65
6	Middle	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3500.01	633334	21.00	19.56
7	Middle	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3500.01	633334	21.00	19.63
8	Middle	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3500.01	633334	20.50	19.18
9	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	3500.01	633334	21.00	19.61
10	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3500.01	633334	21.00	19.57
11	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	3500.01	633334	21.00	19.64
12	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3500.01	633334	21.00	19.60
13	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3500.01	633334	21.00	19.62
14	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3500.01	633334	21.00	19.60
15	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3500.01	633334	21.00	19.64
16	Middle	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3500.01	633334	21.00	19.58
17	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3500.01	633334	21.00	19.57
18	Middle	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3500.01	633334	21.00	19.60
19	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3470.01	631334	21.00	19.62
20	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	3475.02	631668	21.00	19.58
21	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3500.01	633334	21.00	19.60
22	Middle-5	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	3500.01	633334	21.00	19.56
23	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3500.01	633334	21.00	19.60
24	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	3500.01	633334	21.00	19.62

N77-H ANT4_B/D

No.	Test Freq Description	5G-N77H								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	N7H
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3975.000	665000	27.00	25.60
2	Middle-1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3921.000	661400	27.00	25.55
3	Middle-2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3867.000	657800	27.00	25.50
4	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3813.000	654200	27.00	25.00
5	Middle-5	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3759.000	650600	27.00	25.33
6	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3705.000	647000	27.00	25.78
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3930.000	662000	27.00	25.39
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3750.000	650000	27.00	25.41
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-N77H								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	N7H
1	Middle-3	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	3705.000	647000	27.00	25.75
2	Middle-3	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3705.000	647000	26.00	24.82
3	Middle-3	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3705.000	647000	24.50	23.22
4	Middle-3	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3705.000	647000	22.50	21.34
5	Middle-3	30	10	CP-OFDM QPSK	Inner_Full	12_6	3705.000	647000	25.50	24.32
6	Middle-3	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3705.000	647000	25.00	23.74
7	Middle-3	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3705.000	647000	23.50	22.22
8	Middle-3	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3705.000	647000	20.50	19.16
9	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	3705.000	647000	23.50	22.25
10	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3705.000	647000	23.50	22.30
11	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	3705.000	647000	23.50	22.20
12	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3705.000	647000	23.50	22.25
13	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3705.000	647000	27.00	25.83
14	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3705.000	647000	27.00	25.82
15	Middle-3	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3705.000	647000	26.00	24.68
16	Low	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3707.52	647168	27.00	25.13
17	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3710.01	647334	27.00	25.13
18	Low	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3715.02	647668	27.00	25.16
19	Low	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3720	648000	27.00	25.02
20	Low	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	3725.01	648334	27.00	25.09
21	Low	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3730.02	648668	27.00	25.08
22	Low	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	3735	649000	27.00	25.06
23	Low	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3740.01	649334	27.00	25.02
24	Low	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	3745.02	649668	27.00	25.01

N77-H ANT4_A

No.	Test Freq Description	5G-N77H								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	N7H
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3975.000	665000	24.00	22.97
2	Middle-1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3921.000	661400	24.00	23.00
3	Middle-2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3867.000	657800	24.00	23.04
4	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3813.000	654200	24.00	22.86
5	Middle-5	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3759.000	650600	24.00	22.81
6	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3705.000	647000	24.00	22.56
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3930.000	662000	24.00	22.79
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3750.000	650000	24.00	22.82
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-N77H								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	N7H
1	Middle-3	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	3867.000	657800	24.00	22.99
2	Middle-3	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3867.000	657800	24.00	22.95
3	Middle-3	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3867.000	657800	24.00	22.82
4	Middle-3	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3867.000	657800	22.50	21.52
5	Middle-3	30	10	CP-OFDM QPSK	Inner_Full	12_6	3867.000	657800	24.00	23.01
6	Middle-3	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3867.000	657800	24.00	22.99
7	Middle-3	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3867.000	657800	23.50	22.44
8	Middle-3	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3867.000	657800	20.50	19.40
9	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	3867.000	657800	23.50	22.51
10	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3867.000	657800	23.50	22.56
11	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	3867.000	657800	23.50	22.57
12	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3867.000	657800	23.50	22.50
13	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3867.000	657800	24.00	22.93
14	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3867.000	657800	24.00	22.95
15	Middle-3	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3867.000	657800	24.00	22.93
16	Low	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3707.52	647168	24.00	22.95
17	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3710.01	647334	24.00	22.95
18	Low	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3715.02	647668	24.00	22.97
19	Low	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3720	648000	24.00	22.85
20	Low	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	3725.01	648334	24.00	22.92
21	Low	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3730.02	648668	24.00	22.91
22	Low	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	3735	649000	24.00	22.89
23	Low	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3740.01	649334	24.00	22.85
24	Low	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	3745.02	649668	24.00	22.84

N77-H ANT4_C

No.	Test Freq Description	5G-N77H								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	N7H
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3975.000	665000	21.00	19.80
2	Middle-1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3921.000	661400	21.00	19.83
3	Middle-2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3867.000	657800	21.00	19.86
4	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3813.000	654200	21.00	19.70
5	Middle-5	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3759.000	650600	21.00	19.66
6	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3705.000	647000	21.00	19.55
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3930.000	662000	21.00	19.64
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3750.000	650000	21.00	19.67
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-N77H								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	N7H
1	Middle-3	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	3867.000	657800	21.00	19.82
2	Middle-3	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3867.000	657800	21.00	19.78
3	Middle-3	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3867.000	657800	21.00	19.67
4	Middle-3	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3867.000	657800	21.00	19.55
5	Middle-3	30	10	CP-OFDM QPSK	Inner_Full	12_6	3867.000	657800	21.00	19.89
6	Middle-3	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3867.000	657800	21.00	19.82
7	Middle-3	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3867.000	657800	21.00	19.83
8	Middle-3	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3867.000	657800	20.50	19.41
9	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	3867.000	657800	21.00	19.52
10	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3867.000	657800	21.00	19.56
11	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	3867.000	657800	21.00	19.58
12	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3867.000	657800	21.00	19.51
13	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3867.000	657800	21.00	19.77
14	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3867.000	657800	21.00	19.78
15	Middle-3	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3867.000	657800	21.00	19.77
16	Low	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3707.52	647168	21.00	19.78
17	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3710.01	647334	21.00	19.78
18	Low	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3715.02	647668	21.00	19.80
19	Low	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3720	648000	21.00	19.70
20	Low	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	3725.01	648334	21.00	19.76
21	Low	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3730.02	648668	21.00	19.75
22	Low	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	3735	649000	21.00	19.73
23	Low	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3740.01	649334	21.00	19.70
24	Low	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	3745.02	649668	21.00	19.69

N78-L ANT4_B/D

No.	Test Freq Description	5G-N78-L							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		N78-L
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3544.98	636332	27.00	25.74
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3500.01	633334	27.00	25.76
3	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3445.01	630334	27.00	25.82
4	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3500.01	633334	27.00	25.59

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-N78-L							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		N78-L
1	Middle	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	3445.01	630334	27.00	25.72
2	Middle	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3445.01	630334	26.00	24.78
3	Middle	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3445.01	630334	24.50	23.13
4	Middle	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3445.01	630334	22.50	21.28
5	Middle	30	10	CP-OFDM QPSK	Inner_Full	12_6	3445.01	630334	25.50	24.24
6	Middle	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3445.01	630334	25.00	23.69
7	Middle	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3445.01	630334	23.50	22.16
8	Middle	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3445.01	630334	20.50	19.19
9	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	3445.01	630334	23.50	22.27
10	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3445.01	630334	23.50	22.21
11	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	3445.01	630334	23.50	22.14
12	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3445.01	630334	23.50	22.20
13	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3445.01	630334	27.00	25.79
14	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3445.01	630334	27.00	25.84
15	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3445.01	630334	26.00	24.72
16	Middle	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3500.01	633334	27.00	25.89
17	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3500.01	633334	27.00	25.82
18	Middle	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3500.01	633334	27.00	25.79
19	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3470.01	631334	27.00	25.82
20	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	3475.02	631668	27.00	25.66
21	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3500.01	633334	27.00	25.58
22	Middle-5	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	3500.01	633334	27.00	25.56
23	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3500.01	633334	27.00	25.55
24	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	3500.01	633334	27.00	25.53

N78-L ANT4_A

No.	Test Freq Description	5G-N78-L							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		N78-L
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3544.98	636332	22.00	20.76
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3500.01	633334	22.00	20.83
3	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3445.01	630334	22.00	20.78
4	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3500.01	633334	22.00	20.63

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-N78-L							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		N78-L
1	Middle	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	3445.01	630334	22.00	20.82
2	Middle	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3445.01	630334	22.00	20.80
3	Middle	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3445.01	630334	22.00	20.74
4	Middle	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3445.01	630334	22.00	20.79
5	Middle	30	10	CP-OFDM QPSK	Inner_Full	12_6	3445.01	630334	22.00	20.82
6	Middle	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3445.01	630334	22.00	20.80
7	Middle	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3445.01	630334	22.00	20.76
8	Middle	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3445.01	630334	20.50	19.72
9	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	3445.01	630334	22.00	20.82
10	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3445.01	630334	22.00	20.81
11	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	3445.01	630334	22.00	20.74
12	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3445.01	630334	22.00	20.75
13	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3445.01	630334	22.00	20.72
14	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3445.01	630334	22.00	20.75
15	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3445.01	630334	22.00	20.76
16	Middle	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3500.01	633334	22.00	20.80
17	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3500.01	633334	22.00	20.75
18	Middle	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3500.01	633334	22.00	20.72
19	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3470.01	631334	22.00	20.75
20	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	3475.02	631668	22.00	20.60
21	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3500.01	633334	22.00	20.75
22	Middle-5	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	3500.01	633334	22.00	20.74
23	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3500.01	633334	22.00	20.72
24	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	3500.01	633334	22.00	20.69

N78-L ANT4_C

No.	Test Freq Description	5G-N78-L								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	N78-L
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3544.98	636332	20.00	18.73
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3500.01	633334	20.00	18.79
3	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3445.01	630334	20.00	18.75
4	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3500.01	633334	20.00	18.62
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-N78-L								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	N78-L
1	Middle	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	3445.01	630334	20.00	18.78
2	Middle	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3445.01	630334	20.00	18.76
3	Middle	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3445.01	630334	20.00	18.71
4	Middle	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3445.01	630334	20.00	18.75
5	Middle	30	10	CP-OFDM QPSK	Inner_Full	12_6	3445.01	630334	20.00	18.76
6	Middle	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3445.01	630334	20.00	18.78
7	Middle	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3445.01	630334	20.00	18.73
8	Middle	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3445.01	630334	20.00	18.74
9	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	3445.01	630334	20.00	18.78
10	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3445.01	630334	20.00	18.77
11	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	3445.01	630334	20.00	18.71
12	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3445.01	630334	20.00	18.72
13	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3445.01	630334	20.00	18.69
14	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3445.01	630334	20.00	18.72
15	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3445.01	630334	20.00	18.73
16	Middle	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3500.01	633334	20.00	18.76
17	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3500.01	633334	20.00	18.72
18	Middle	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3500.01	633334	20.00	18.69
19	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3470.01	631334	20.00	18.72
20	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	3475.02	631668	20.00	18.58
21	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3500.01	633334	20.00	18.72
22	Middle-5	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	3500.01	633334	20.00	18.71
23	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3500.01	633334	20.00	18.69
24	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	3500.01	633334	20.00	18.66

N78-H ANT4_B/D

No.	Test Freq Description	5G-n78							Tune up	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	27	25.65
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3750	650000	27	25.79
6	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3705	647000	27	25.77
12	Low/High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750	650000	27	25.41
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n78							Tune up	Power Results (dBm)
		SCS (kHz)	20	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n78
1	Middle-3	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	3750	650000	27	25.67
2	Middle-3	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3750	650000	26	24.65
3	Middle-3	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3750	650000	24.5	23.01
4	Middle-3	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3750	650000	22.5	21.18
5	Middle-3	30	10	CP-OFDM QPSK	Inner_Full	12_6	3750	650000	25.5	24.19
6	Middle-3	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3750	650000	25	23.64
7	Middle-3	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3750	650000	23.5	22.10
8	Middle-3	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3750	650000	20.5	19.12
9	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	3750	650000	23.5	22.19
10	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3750	650000	23.5	22.12
11	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	3750	650000	23.5	22.09
12	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3750	650000	23.5	22.12
13	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3750	650000	27	25.71
14	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3750	650000	27	25.72
15	Middle-3	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3750	650000	26	24.63
16	Middle-1	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3750	650000	27	25.67
17	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3750	650000	27	25.68
18	Middle-1	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3750	650000	27	25.65
19	Middle-1	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3750	650000	27	25.65
20	Middle-1	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	3750	650000	27	25.42
21	Middle-1	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3750	650000	27	25.39
22	Middle-1	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	3750	650000	27	25.47
23	Middle-1	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3750	650000	27	25.43
24	Middle-1	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	3750	650000	27	25.39

N78-H ANT4_A

No.	Test Freq Description	5G-n78								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n78
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3795	653000	22	20.60
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3750	650000	22	20.69
6	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3705	647000	22	20.62
12	Low/High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750	650000	22	20.58
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n78								Power Results (dBm)
		SCS (kHz)	20	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n78
1	Middle-3	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	3750	650000	22	20.58
2	Middle-3	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3750	650000	22	20.62
3	Middle-3	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3750	650000	22	20.58
4	Middle-3	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3750	650000	22	20.58
5	Middle-3	30	10	CP-OFDM QPSK	Inner_Full	12_6	3750	650000	22	20.60
6	Middle-3	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3750	650000	22	20.59
7	Middle-3	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3750	650000	22	20.59
8	Middle-3	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3750	650000	20.5	19.59
9	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	3750	650000	22	20.63
10	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3750	650000	22	20.62
11	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	3750	650000	22	20.56
12	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3750	650000	22	20.57
13	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3750	650000	22	20.57
14	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3750	650000	22	20.57
15	Middle-3	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3750	650000	22	20.58
16	Middle-1	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3750	650000	22	20.61
17	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3750	650000	22	20.57
18	Middle-1	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3750	650000	22	20.59
19	Middle-1	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3750	650000	22	20.57
20	Middle-1	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	3750	650000	22	20.63
21	Middle-1	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3750	650000	22	20.57
22	Middle-1	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	3750	650000	22	20.56
23	Middle-1	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3750	650000	22	20.65
24	Middle-1	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	3750	650000	22	20.61

N78-H ANT4_C

No.	Test Freq Description	5G-n78							Tune up	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	20	18.57
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3750	650000	20	18.62
6	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3705	647000	20	18.56
12	Low/High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750	650000	20	18.58
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n78							Tune up	Power Results (dBm)
		SCS (kHz)	20	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n78
1	Middle-3	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	3750	650000	20	18.52
2	Middle-3	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3750	650000	20	18.56
3	Middle-3	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3750	650000	20	18.52
4	Middle-3	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3750	650000	20	18.52
5	Middle-3	30	10	CP-OFDM QPSK	Inner_Full	12_6	3750	650000	20	18.53
6	Middle-3	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3750	650000	20	18.54
7	Middle-3	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3750	650000	20	18.53
8	Middle-3	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3750	650000	20	18.62
9	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	3750	650000	20	18.57
10	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3750	650000	20	18.56
11	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	3750	650000	20	18.50
12	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3750	650000	20	18.51
13	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3750	650000	20	18.51
14	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3750	650000	20	18.51
15	Middle-3	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3750	650000	20	18.52
16	Middle-1	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3750	650000	20	18.55
17	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3750	650000	20	18.51
18	Middle-1	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3750	650000	20	18.53
19	Middle-1	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3750	650000	20	18.51
20	Middle-1	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	3750	650000	20	18.57
21	Middle-1	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3750	650000	20	18.51
22	Middle-1	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	3750	650000	20	18.50
23	Middle-1	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3750	650000	20	18.58
24	Middle-1	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	3750	650000	20	18.55

11.5 Wi-Fi and BT Measurement result

The maximum output power for BT

GFSK			Tune up	EDR2M-4_DQPSK			Tune up	EDR3M-8DPSK			Tune up
Channel 0	Channel 39	Channel 78		Channel 0	Channel 39	Channel 78		Channel 0	Channel 39	Channel 78	
11.75	12.87	12.69	14.00	10.39	10.97	11.08	12.00	10.40	10.77	10.89	12.00

Tune up

Technology/Band	Mode	Tune up (dBm)
WLAN 2.4GHz for FCC-Full power	802.11b CH11	19
	802.11b CH6/1	18
	802.11g CH11	18
	802.11 g CH6/1	20
	802.11n HT20 CH11	17
	802.11n HT20 CH6	20
	802.11n HT20 CH1	19
	802.11n HT40 CH9	15
	802.11n HT40 CH6	18
	802.11n HT40 CH3	16
WLAN 2.4GHz for FCC-Receiver on Standalone	802.11b	18
	802.11g	18
	802.11n HT20 CH11	17
	802.11n HT20 CH6/1	18
	802.11n HT40 CH9	15
	802.11n HT40 CH6	18
	802.11n HT40 CH3	16
WLAN 2.4GHz for FCC-Receiver on simultaneous transmission	802.11b	15.5
	802.11g	15.5
	802.11n HT20	15.5
	802.11n HT40	15.5
WLAN 5GHz for FCC- Full power	802.11a	20
	802.11n HT20	19
	802.11n HT40	19
	802.11ac HT20	19
	802.11ac HT40	19
	802.11ac HT80	18
WLAN 5GHz for FCC- Receiver on Standalone	802.11a	15.5
	802.11n HT20	14.5
	802.11n HT40	14.5
	802.11ac HT20	14.5
	802.11ac HT40	14.5
	802.11ac HT80	14.5
WLAN 5GHz	802.11a	12

for FCC- Receiver on simultaneous transmission	**802.11n HT20**	11
	802.11n HT40	11
	802.11ac HT20	11
	802.11ac HT40	11
	802.11ac HT80	11
WLAN 5GHz for FCC- Receiver off simultaneous transmission	**802.11a**	16.5
	802.11n HT20	15.5
	802.11n HT40	15.5
	802.11ac HT20	15.5
	802.11ac HT40	15.5
	802.11ac HT80	15.5

The maximum output power for WiFi 2.4G –Full power

802.11b(dBm)	
Channel\data rate	1Mbps
11(2462MHz)	17.76
6(2437MHz)	16.26
1(2412MHz)	16.06
802.11g(dBm)	
Channel\data rate	6Mbps
11(2462MHz)	16.20
6(2437MHz)	18.15
1(2412MHz)	18.08
802.11n(dBm)-20MHz	
Channel\data rate	MCS0
11(2462MHz)	15.16
6(2437MHz)	18.12
1(2412MHz)	17.02
802.11n(dBm)-40MHz	
Channel\data rate	MCS0
9(2452MHz)	13.53
6(2437MHz)	16.48
3(2422MHz)	14.31

The maximum output power for WiFi 2.4G –Receiver on Standalone

802.11b(dBm)	
Channel\data rate	1Mbps
11(2462MHz)	16.37
6(2437MHz)	16.26
1(2412MHz)	16.06
802.11g(dBm)	
Channel\data rate	6Mbps
11(2462MHz)	16.20
6(2437MHz)	16.24
1(2412MHz)	16.23
802.11n(dBm)-20MHz	
Channel\data rate	MCS0
11(2462MHz)	15.16
6(2437MHz)	16.25
1(2412MHz)	16.07
802.11n(dBm)-40MHz	
Channel\data rate	MCS0
9(2452MHz)	13.53
6(2437MHz)	16.22
3(2422MHz)	14.31

The maximum output power for WiFi 2.4G –Receiver on simultaneous transmission

802.11b(dBm)	
Channel\data rate	1Mbps
11(2462MHz)	14.31
6(2437MHz)	13.82
1(2412MHz)	13.94
802.11g(dBm)	
Channel\data rate	6Mbps
11(2462MHz)	13.84
6(2437MHz)	13.46
1(2412MHz)	13.62
802.11n(dBm)-20MHz	
Channel\data rate	MCS0
11(2462MHz)	13.65
6(2437MHz)	15.54
1(2412MHz)	15.56
802.11n(dBm)-40MHz	
Channel\data rate	MCS0
9(2452MHz)	15.52
6(2437MHz)	13.89
3(2422MHz)	13.86

The maximum output power for WiFi 5G –Full power

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	18.46
40(5200 MHz)	19.13
44(5220 MHz)	19.08
48(5240 MHz)	18.64
52(5260 MHz)	18.90
56(5280 MHz)	18.79
60(5300 MHz)	18.67
64(5320 MHz)	18.96
100(5500 MHz)	18.64
104(5520 MHz)	18.54
108(5540 MHz)	18.75
112(5560 MHz)	18.70
116(5580 MHz)	18.97
120(5600 MHz)	18.88
124(5620 MHz)	18.95
128(5640 MHz)	18.98
132(5660 MHz)	18.67
136(5680 MHz)	18.55
140(5700 MHz)	18.34
144(5720 MHz)	18.33
149(5745 MHz)	18.64
153(5765 MHz)	18.69
157(5785 MHz)	18.64
161(5805 MHz)	18.72
165(5825 MHz)	18.78

The maximum output power for WiFi 5G –Receiver on Standalone

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	15.33
40(5200 MHz)	15.07
44(5220 MHz)	15.21
48(5240 MHz)	14.68
52(5260 MHz)	14.48
56(5280 MHz)	14.39
60(5300 MHz)	14.30
64(5320 MHz)	14.54
100(5500 MHz)	14.62
104(5520 MHz)	14.54
108(5540 MHz)	14.71
112(5560 MHz)	14.67
116(5580 MHz)	14.98
120(5600 MHz)	14.81
124(5620 MHz)	14.86
128(5640 MHz)	14.89
132(5660 MHz)	14.64
136(5680 MHz)	14.55
140(5700 MHz)	14.39
144(5720 MHz)	14.38
149(5745 MHz)	14.71
153(5765 MHz)	14.75
157(5785 MHz)	14.71
161(5805 MHz)	14.77
165(5825 MHz)	14.82

The maximum output power for WiFi 5G –Receiver on simultaneous transmission

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	11.90
40(5200 MHz)	11.76
44(5220 MHz)	11.12
48(5240 MHz)	11.37
52(5260 MHz)	11.71
56(5280 MHz)	11.11
60(5300 MHz)	11.04
64(5320 MHz)	11.15
100(5500 MHz)	11.54
104(5520 MHz)	11.48
108(5540 MHz)	11.61
112(5560 MHz)	11.58
116(5580 MHz)	11.84
120(5600 MHz)	11.69
124(5620 MHz)	11.73
128(5640 MHz)	11.75
132(5660 MHz)	11.56
136(5680 MHz)	11.49
140(5700 MHz)	11.36
144(5720 MHz)	11.35
149(5745 MHz)	11.57
153(5765 MHz)	11.60
157(5785 MHz)	11.57
161(5805 MHz)	11.62
165(5825 MHz)	11.64

The maximum output power for WiFi 5G –Receiver off simultaneous transmission

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	16.25
40(5200 MHz)	16.09
44(5220 MHz)	16.11
48(5240 MHz)	15.62
52(5260 MHz)	16.14
56(5280 MHz)	16.04
60(5300 MHz)	15.94
64(5320 MHz)	16.10
100(5500 MHz)	15.76
104(5520 MHz)	15.68
108(5540 MHz)	15.86
112(5560 MHz)	15.81
116(5580 MHz)	16.12
120(5600 MHz)	15.96
124(5620 MHz)	16.01
128(5640 MHz)	16.05
132(5660 MHz)	15.78
136(5680 MHz)	15.69
140(5700 MHz)	15.52
144(5720 MHz)	15.51
149(5745 MHz)	15.74
153(5765 MHz)	15.78
157(5785 MHz)	15.74
161(5805 MHz)	15.80
165(5825 MHz)	15.85

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.24T04Z101721-018
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.

Antenna/Sensor-to- DUT sides separation distances						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
Ant.1	Yes	Yes	No	Yes	No	Yes
Ant.2	Yes	Yes	Yes	No	No	Yes
Ant.5	Yes	Yes	Yes	No	Yes	No
Ant.6	Yes	Yes	No	Yes	Yes	No
Ant.7	Yes	Yes	No	Yes	Yes	No

13 Evaluation of Simultaneous

Simultaneous Transmission Possibilities

The Simultaneous Transmission Possibilities are as below:

No.	Antenna combines	Head	Body
1	WWAN + BT	Yes	Yes
2	WWAN + Wi-Fi 2.4G	Yes	Yes
3	WWAN + Wi-Fi 5G	Yes	Yes
4	WWAN + Wi-Fi 5G + BT	Yes	Yes
5	Wi-Fi 5G + BT	Yes	Yes

Note:

1. Wi-Fi 2.4GHz & Bluetooth can not transmit simultaneously.
2. WWAN cannot transmit simultaneously.
3. The reported SAR summation is calculated based on the same configuration and test position.
4. For the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR, we determined the SAR of this edges were less than 0.01. For the convenience of simultaneous transmission calculation, all SAR values less than 0.01 are uniformly written as 0.00

Test Postition / SAR 1g(W/kg)		WWAN															MAX. SAR 1g
		GSM850	GSM1900	WCDMA850	WCDMA1700	WCDMA1900	LTE B2 ANT1	LTE B7 ANT5	LTE B12 ANT0	LTE B25 ANT1	LTE B26 ANT2	LTE B41 PC2 ANT5	LTE B41 PC3 ANT5	LTE B66 ANT1	LTE B71 ANT2		
Head	Left Cheek	0.644	0.391	0.193	0.224	0.259	0.085	0.707	0.137	0.184	0.190	0.504	0.557	0.215	0.195		0.707
	Left Tilt	0.466	0.220	0.129	0.111	0.152	0.080	0.979	0.080	0.096	0.100	0.646	0.566	0.202	0.151		0.979
	Right Cheek	0.910	0.322	0.229	0.124	0.231	0.134	0.734	0.143	0.191	0.207	0.821	0.791	0.169	0.150		0.910
	Right Tilt	0.396	0.249	0.123	0.102	0.177	0.076	1.117	0.109	0.156	0.102	1.064	1.065	0.134	0.133		1.117
Body	Front 10mm	0.522	0.371	0.417	0.353	0.513	0.233	0.171	0.158	0.259	0.318	0.280	0.152	0.199	0.242		0.522
	Rear 10mm	0.857	0.826	0.632	0.744	0.918	0.524	0.377	0.281	0.600	0.473	0.649	0.330	0.435	0.364		0.918
	Left 10mm	0.391		0.239				0.137	0.228		0.192	0..62	0.124		0.257		0.391
	Right 10mm		0.187		0.234	0.233	0.146			0.232				0.101			0.234
	Bottom 10mm	0.492	1.153	0.370	1.099	1.162	0.596		0.111	0.661	0.239			0.505	0.169		1.162
	Top 10mm							0.583				0.650	0.565				0.650
	Front 23mm							0.407				0.186	0.460				0.460
	Rear 27mm							0.540				0.259	0.508				0.540
	Top 27mm							0.792				0.373	0.776				0.792

Test Postition / SAR 1g(W/kg)		1	2	3	4
		WWAN	WLAN2.4G	WLAN5G	BT
Head	Left Cheek	0.707	0.625	0.334	0.248
	Left Tilt	0.979	0.558	0.342	0.147
	Right Cheek	0.910	0.231	0.370	0.083
	Right Tilt	1.117	0.225	0.406	0.060
Body	Front 10mm	0.522	0.289	0.240	0.067
	Rear 10mm	0.918	0.423	0.194	0.047
	Left 10mm	0.391			
	Right 10mm	0.234	0.206	0.092	0.035
	Bottom 10mm	1.162			
	Top 10mm	0.650	0.172	0.491	0.027
	Front 15mm	0.460	0.289	0.240	0.067
	Rear 22mm	0.540	0.423	0.194	0.047
	Top 22mm	0.792	0.172	0.491	0.027

Test Postition / SAR 1g(W/kg)		simultaneous transmission			
		1+2	1+3	1+4	1+3+4
Head	Left Cheek	1.332	1.041	0.955	1.289
	Left Tilt	1.537	1.321	1.126	1.468
	Right Cheek	1.141	1.280	0.993	1.363
	Right Tilt	1.342	1.523	1.177	1.583
Body	Front 10mm	0.811	0.762	0.589	0.829
	Rear 10mm	1.341	1.112	0.965	1.159
	Left 10mm	0.391	0.391	0.391	0.391
	Right 10mm	0.440	0.326	0.269	0.361
	Bottom 10mm	1.162	1.162	1.162	1.162
	Top 10mm	0.822	1.141	0.677	1.168
	Front 15mm	0.749	0.700	0.527	0.767
	Rear 22mm	0.963	0.734	0.587	0.781
	Top 22mm	0.964	1.283	0.819	1.310

Test Postition / SAR 1g(W/kg)		N2 ANT1	N5 ANT2	N7 ANT5	N25 ANT1	N41 ANT5	N66 ANT1	N71 ANT2	N77-L ANT4	N77-H ANT4	N78-L ANT4	N78-H ANT4	MAX. SAR 1g
Head	Left Cheek	0.240	0.197	0.458	0.242	0.278	0.274	0.151	0.156	0.178	0.137	0.143	0.458
	Left Tilt	0.204	0.154	0.716	0.146	0.391	0.126	0.104	0.126	0.229	0.140	0.249	0.716
	Right Cheek	0.179	0.227	0.699	0.193	0.502	0.158	0.157	0.573	0.683	0.489	0.706	0.706
	Right Tilt	0.121	0.117	1.112	0.163	0.731	0.104	0.085	0.217	0.403	0.332	0.536	1.112
Body	Front 10mm	0.454	0.136	0.196	0.267	0.117	0.289	0.226	0.683	0.567	0.610	0.387	0.683
	Rear 10mm	0.861	0.213	0.452	0.803	0.277	0.804	0.419	0.918	0.550	1.051	0.707	1.051
	Left 10mm		0.127	0.102		0.089		0.210	0.743	0.702	0.659	0.547	0.743
	Right 10mm	0.319			0.260		0.189						0.319
	Bottom 10mm	0.663	0.303		0.856		0.852	0.220					0.856
	Top 10mm			1.032		0.603			0.359	0.988	0.386	0.588	1.032
	Front 15mm			0.476		0.218							0.476
	Rear 22mm			0.640		0.288							0.640
	Top 22mm			0.699		0.431							0.699

Test Position / SAR 1g(W/kg)		1 WWAN	2 WLAN2.4G	3 WLAN5G	4 BT
Head	Left Cheek	0.458	0.625	0.334	0.248
	Left Tilt	0.716	0.558	0.342	0.147
	Right Cheek	0.706	0.231	0.370	0.083
	Right Tilt	1.112	0.225	0.406	0.060
Body	Front 10mm	0.683	0.289	0.240	0.067
	Rear 10mm	1.051	0.423	0.194	0.047
	Left 10mm	0.743			
	Right 10mm	0.319	0.206	0.092	0.035
	Bottom 10mm	0.856			
	Top 10mm	1.032	0.172	0.491	0.027
	Front 15mm	0.476	0.289	0.240	0.067
	Rear 22mm	0.640	0.423	0.194	0.047
	Top 22mm	0.699	0.172	0.491	0.027

Test Position / SAR 1g(W/kg)		simultaneous transmission 1+2	1+3	1+4	1+3+4
Head	Left Cheek	1.083	0.792	0.706	1.040
	Left Tilt	1.274	1.059	0.863	1.205
	Right Cheek	0.938	1.076	0.789	1.159
	Right Tilt	1.337	1.519	1.172	1.578
Body	Front 10mm	0.972	0.923	0.750	0.990
	Rear 10mm	1.474	1.245	1.098	1.292
	Left 10mm	0.743	0.743	0.743	0.743
	Right 10mm	0.525	0.411	0.354	0.446
	Bottom 10mm	0.856	0.856	0.856	0.856
	Top 10mm	1.204	1.523	1.059	1.550
	Front 15mm	0.764	0.716	0.543	0.783
	Rear 22mm	1.063	0.834	0.687	0.881
	Top 22mm	0.871	1.190	0.726	1.217

Test Position / SAR 1g(W/kg)		ENDC n25 (ANT5)	LTE B2 (ANT1)	LTE B66 (ANT1)	2A_n25A (ANT1+5)	66A_n25A (ANT1+5)	ENDC MAX. SAR 1g
Head	Left Cheek	0.224	0.085	0.215	0.309	0.439	0.439
	Left Tilt	0.438	0.080	0.202	0.518	0.641	0.641
	Right Cheek	0.283	0.134	0.169	0.416	0.451	0.451
	Right Tilt	0.550	0.076	0.134	0.626	0.684	0.684
Body	Front 10mm	0.214	0.233	0.199	0.447	0.413	0.447
	Rear 10mm	0.479	0.524	0.435	1.003	0.914	1.003
	Left 10mm	0.151			0.151	0.151	0.151
	Right 10mm		0.146	0.101	0.146	0.101	0.146
	Bottom 10mm		0.596	0.505	0.596	0.505	0.596
	Top 10mm	0.642			0.642	0.642	0.642
	Front 15mm	0.216	0.233	0.199	0.449	0.415	0.449
	Rear 22mm	0.243	0.524	0.435	0.767	0.678	0.767
	Top 22mm	0.336			0.336	0.336	0.336

Test Position / SAR 1g(W/kg)		1 WWAN	2 WLAN2.4G	3 WLAN5G	4 BT
Head	Left Cheek	0.439	0.625	0.334	0.248
	Left Tilt	0.641	0.558	0.342	0.147
	Right Cheek	0.451	0.231	0.370	0.083
	Right Tilt	0.684	0.225	0.406	0.060
Body	Front 10mm	0.447	0.289	0.240	0.067
	Rear 10mm	1.003	0.423	0.194	0.047
	Left 10mm	0.151			
	Right 10mm	0.146	0.206	0.092	0.035
	Bottom 10mm	0.596			
	Top 10mm	0.642	0.172	0.491	0.027
	Front 15mm	0.449	0.289	0.240	0.067
	Rear 22mm	0.767	0.423	0.194	0.047
	Top 22mm	0.336	0.172	0.491	0.027

Test Position / SAR 1g(W/kg)		simultaneous transmission 1+2	1+3	1+4	1+3+4
Head	Left Cheek	1.064	0.773	0.687	1.021
	Left Tilt	1.198	0.983	0.787	1.129
	Right Cheek	0.683	0.821	0.534	0.904
	Right Tilt	0.909	1.090	0.744	1.150
Body	Front 10mm	0.736	0.687	0.514	0.754
	Rear 10mm	1.426	1.197	1.050	1.244
	Left 10mm	0.151	0.151	0.151	0.151
	Right 10mm	0.352	0.238	0.181	0.273
	Bottom 10mm	0.596	0.596	0.596	0.596
	Top 10mm	0.814	1.133	0.669	1.160
	Front 15mm	0.738	0.689	0.516	0.756
	Rear 22mm	1.190	0.961	0.814	1.008
	Top 22mm	0.508	0.827	0.363	0.854

Test Position / SAR 1g(W/kg)		ENDC n41 (ANT5)	LTE B2 (ANT1)	LTE B66 (ANT1)	2A_n41A (ANT1+5)	66A_n41A (ANT1+5)	ENDC MAX. SAR 1g
Head	Left Cheek	0.278	0.085	0.215	0.363	0.493	0.493
	Left Tilt	0.391	0.080	0.202	0.471	0.593	0.593
	Right Cheek	0.502	0.134	0.169	0.635	0.670	0.670
	Right Tilt	0.731	0.076	0.134	0.807	0.865	0.865
Body	Front 10mm	0.117	0.233	0.199	0.350	0.316	0.350
	Rear 10mm	0.277	0.524	0.435	0.801	0.712	0.801
	Left 10mm	0.089			0.089	0.089	0.089
	Right 10mm		0.146	0.101	0.146	0.101	0.146
	Bottom 10mm		0.596	0.505	0.596	0.505	0.596
	Top 10mm	0.603			0.603	0.603	0.603
	Front 15mm	0.218	0.233	0.199	0.451	0.417	0.451
	Rear 22mm	0.288	0.524	0.435	0.812	0.723	0.812
	Top 22mm	0.431	0.596	0.505	1.027	0.936	1.027

Test Position / SAR 1g(W/kg)		1 WWAN	2 WLAN2.4G	3 WLAN5G	4 BT
Head	Left Cheek	0.493	0.625	0.334	0.248
	Left Tilt	0.593	0.558	0.342	0.147
	Right Cheek	0.670	0.231	0.370	0.083
	Right Tilt	0.865	0.225	0.406	0.060
Body	Front 10mm	0.350	0.289	0.240	0.067
	Rear 10mm	0.801	0.423	0.194	0.047
	Left 10mm	0.089			
	Right 10mm	0.146	0.206	0.092	0.035
	Bottom 10mm	0.596			
	Top 10mm	0.603	0.172	0.491	0.027
	Front 15mm	0.451	0.289	0.240	0.067
	Rear 22mm	0.812	0.423	0.194	0.047
	Top 22mm	1.027	0.172	0.491	0.027

Test Position / SAR 1g(W/kg)		simultaneous transmission 1+2	1+3	1+4	1+3+4
Head	Left Cheek	1.117	0.826	0.740	1.074
	Left Tilt	1.151	0.936	0.740	1.082
	Right Cheek	0.902	1.041	0.754	1.124
	Right Tilt	1.090	1.271	0.925	1.331
Body	Front 10mm	0.638	0.590	0.417	0.657
	Rear 10mm	1.224	0.995	0.848	1.042
	Left 10mm	0.089	0.089	0.089	0.089
	Right 10mm	0.352	0.238	0.181	0.273
	Bottom 10mm	0.596	0.596	0.596	0.596
	Top 10mm	0.775	1.094	0.630	1.121
	Front 15mm	0.740	0.691	0.518	0.758
	Rear 22mm	1.235	1.006	0.859	1.053
	Top 22mm	1.199	1.518	1.054	1.545

Test Position / SAR 1g(W/kg)		ENDC n66 (ANT5)	LTE B2 (ANT1)	2A_n66A (ANT1+5)	ENDC MAX. SAR 1g
Head	Left Cheek	0.098	0.085	0.183	0.183
	Left Tilt	0.233	0.080	0.313	0.313
	Right Cheek	0.225	0.134	0.358	0.358
	Right Tilt	0.637	0.076	0.713	0.713
Body	Front 10mm	0.372	0.233	0.605	0.605
	Rear 10mm	0.651	0.524	1.175	1.175
	Left 10mm	0.129		0.129	0.129
	Right 10mm		0.146	0.146	0.146
	Bottom 10mm		0.596	0.596	0.596
	Top 10mm	0.643		0.643	0.643
	Front 15mm	0.221	0.233	0.454	0.454
	Rear 22mm	0.177	0.524	0.701	0.701
	Top 22mm	0.235		0.235	0.235

Test Position / SAR 1g(W/kg)		1 WWAN	2 WLAN2.4G	3 WLAN5G	4 BT
Head	Left Cheek	0.183	0.625	0.334	0.248
	Left Tilt	0.313	0.558	0.342	0.147
	Right Cheek	0.358	0.231	0.370	0.083
	Right Tilt	0.713	0.225	0.406	0.060
Body	Front 10mm	0.605	0.289	0.240	0.067
	Rear 10mm	1.175	0.423	0.194	0.047
	Left 10mm	0.129			
	Right 10mm	0.146	0.206	0.092	0.035
	Bottom 10mm	0.596			
	Top 10mm	0.643	0.172	0.491	0.027
	Front 15mm	0.454	0.289	0.240	0.067
	Rear 22mm	0.701	0.423	0.194	0.047
	Top 22mm	0.235	0.172	0.491	0.027

Test Position / SAR 1g(W/kg)		simultaneous transmission 1+2	1+3	1+4	1+3+4
Head	Left Cheek	0.807	0.516	0.430	0.764
	Left Tilt	0.870	0.655	0.459	0.802
	Right Cheek	0.590	0.728	0.441	0.811
	Right Tilt	0.938	1.119	0.773	1.179
Body	Front 10mm	0.894	0.845	0.672	0.912
	Rear 10mm	1.598	1.369	1.222	1.416
	Left 10mm	0.129	0.129	0.129	0.129
	Right 10mm	0.352	0.238	0.181	0.273
	Bottom 10mm	0.596	0.596	0.596	0.596
	Top 10mm	0.815	1.134	0.670	1.161
	Front 15mm	0.743	0.694	0.521	0.761
	Rear 22mm	1.124	0.895	0.748	0.942
	Top 22mm	0.407	0.726	0.262	0.753

Test Position / SAR 1g(W/kg)		ENDC n71 (ANT2)	LTE B2 (ANT5)	LTE B66 (ANT5)	2A_n71A (ANT5+2)	66A_n71A (ANT5+2)	ENDC MAX. SAR 1g
Head	Left Cheek	0.151	0.374	0.295	0.525	0.446	0.525
	Left Tilt	0.104	0.518	0.409	0.622	0.513	0.622
	Right Cheek	0.157	0.564	0.417	0.721	0.574	0.721
	Right Tilt	0.085	0.704	0.518	0.789	0.603	0.789
Body	Front 10mm	0.226	0.185	0.212	0.411	0.438	0.438
	Rear 10mm	0.419	0.503	0.351	0.922	0.770	0.922
	Left 10mm	0.210			0.210	0.210	0.210
	Right 10mm		0.113	0.088	0.113	0.088	0.113
	Bottom 10mm	0.220			0.220	0.220	0.220
	Top 10mm		0.563	0.218	0.563	0.218	0.563

Test Position / SAR 1g(W/kg)		1 WWAN	2 WLAN2.4G	3 WLAN5G	4 BT
Head	Left Cheek	0.525	0.625	0.334	0.248
	Left Tilt	0.622	0.558	0.342	0.147
	Right Cheek	0.721	0.231	0.370	0.083
	Right Tilt	0.789	0.225	0.406	0.060
Body	Front 10mm	0.438	0.289	0.240	0.067
	Rear 10mm	0.922	0.423	0.194	0.047
	Left 10mm	0.210			
	Right 10mm	0.113	0.206	0.092	0.035
	Bottom 10mm	0.220			
	Top 10mm	0.563	0.172	0.491	0.027

Test Position / SAR 1g(W/kg)		simultaneous transmission 1+2	1+3	1+4	1+3+4
Head	Left Cheek	1.150	0.859	0.773	1.107
	Left Tilt	1.179	0.964	0.768	1.111
	Right Cheek	0.952	1.091	0.804	1.174
	Right Tilt	1.014	1.195	0.849	1.255
Body	Front 10mm	0.727	0.678	0.505	0.745
	Rear 10mm	1.345	1.116	0.969	1.163
	Left 10mm	0.210	0.210	0.210	0.210
	Right 10mm	0.319	0.205	0.148	0.240
	Bottom 10mm	0.220	0.220	0.220	0.220
	Top 10mm	0.735	1.054	0.590	1.081

Test Position / SAR 1g(W/kg)		ENDC LTE B2 (ANT5)	LTE B5 (ANT2)	LTE B12 (ANT2)	LTE B71 (ANT2)	2A_5A (ANT5+2)	2A_12A (ANT5+2)	2A_71A (ANT5+2)	ENDC MAX. SAR 1g
Head	Left Cheek	0.374	0.190	0.137	0.195	0.564	0.511	0.569	0.569
	Left Tilt	0.518	0.100	0.080	0.151	0.618	0.598	0.669	0.669
	Right Cheek	0.564	0.207	0.143	0.150	0.771	0.707	0.714	0.714
	Right Tilt	0.704	0.102	0.109	0.133	0.805	0.813	0.837	0.837
Body	Front 10mm	0.185	0.318	0.158	0.242	0.502	0.343	0.426	0.426
	Rear 10mm	0.503	0.473	0.281	0.364	0.976	0.784	0.867	0.867
	Left 10mm		0.192	0.228	0.257	0.192	0.228	0.257	0.257
	Right 10mm	0.113				0.113	0.113	0.113	0.113
	Bottom 10mm		0.239	0.111	0.169	0.239	0.111	0.169	0.169
	Top 10mm	0.563				0.563	0.563	0.563	0.563
	Front 15mm	0.226	0.318	0.158	0.242	0.544	0.385	0.468	0.468
	Rear 22mm	0.274	0.473	0.281	0.364	0.748	0.555	0.638	0.638
	Top 22mm	0.333				0.333	0.333	0.333	0.333

Test Position / SAR 1g(W/kg)		1 WWAN	2 WLAN2.4G	3 WLAN5G	4 BT
Head	Left Cheek	0.569	0.625	0.334	0.248
	Left Tilt	0.669	0.558	0.342	0.147
	Right Cheek	0.714	0.231	0.370	0.083
	Right Tilt	0.837	0.225	0.406	0.060
Body	Front 10mm	0.426	0.289	0.240	0.067
	Rear 10mm	0.867	0.423	0.194	0.047
	Left 10mm	0.257			
	Right 10mm	0.113	0.206	0.092	0.035
	Bottom 10mm	0.169			
	Top 10mm	0.563	0.172	0.491	0.027
	Front 15mm	0.468	0.289	0.240	0.067
	Rear 22mm	0.638	0.423	0.194	0.047
	Top 22mm	0.333	0.172	0.491	0.027

Test Position / SAR 1g(W/kg)		simultaneous transmission 1+2	1+3	1+4	1+3+4
Head	Left Cheek	1.194	0.903	0.817	1.151
	Left Tilt	1.227	1.011	0.816	1.158
	Right Cheek	0.945	1.084	0.797	1.167
	Right Tilt	1.062	1.243	0.896	1.302
Body	Front 10mm	0.715	0.666	0.493	0.733
	Rear 10mm	1.290	1.061	0.914	1.108
	Left 10mm	0.257	0.257	0.257	0.257
	Right 10mm	0.319	0.205	0.148	0.240
	Bottom 10mm	0.169	0.169	0.169	0.169
	Top 10mm	0.735	1.054	0.590	1.081
	Front 15mm	0.757	0.708	0.535	0.775
	Rear 22mm	1.061	0.832	0.685	0.879
	Top 22mm	0.505	0.824	0.360	0.851

Test Position / SAR 1g(W/kg)		ENDC LTE B66 (ANT5)	LTE B2 (ANT1)	LTE B5 (ANT2)	LTE B12 (ANT2)	LTE B71 (ANT2)	2A_66A (ANT1+5)	5A_66A (ANT2+5)	12A_66A (ANT2+5)	66A_71A (ANT5+2)	ENDC MAX. SAR 1g
Head	Left Cheek	0.295	0.085	0.190	0.137	0.195	0.380	0.485	0.432	0.490	0.490
	Left Tilt	0.409	0.080	0.100	0.080	0.151	0.488	0.509	0.489	0.560	0.560
	Right Cheek	0.417	0.134	0.207	0.143	0.150	0.550	0.624	0.560	0.567	0.567
	Right Tilt	0.518	0.076	0.102	0.109	0.133	0.594	0.620	0.627	0.651	0.651
Body	Front 10mm	0.212	0.233	0.318	0.158	0.242	0.445	0.530	0.370	0.454	0.454
	Rear 10mm	0.351	0.524	0.473	0.281	0.364	0.875	0.824	0.632	0.715	0.715
	Left 10mm			0.192	0.228	0.257	0.000	0.192	0.228	0.257	0.257
	Right 10mm	0.088	0.146				0.234	0.088	0.088	0.088	0.088
	Bottom 10mm		0.596	0.239	0.111	0.169	0.596	0.239	0.111	0.169	0.169
	Top 10mm	0.218					0.218	0.218	0.218	0.218	0.218
	Front 15mm	0.212	0.233	0.318	0.158	0.242	0.445	0.530	0.370	0.454	0.454
	Rear 22mm	0.351	0.524	0.473	0.281	0.364	0.875	0.824	0.632	0.715	0.715
	Top 22mm	0.218					0.218	0.218	0.218	0.218	0.218

Test Position / SAR 1g(W/kg)		1 WWAN	2 WLAN2.4G	3 WLAN5G	4 BT
Head	Left Cheek	0.490	0.625	0.334	0.248
	Left Tilt	0.560	0.558	0.342	0.147
	Right Cheek	0.567	0.231	0.370	0.083
	Right Tilt	0.651	0.225	0.406	0.060
Body	Front 10mm	0.454	0.289	0.240	0.067
	Rear 10mm	0.715	0.423	0.194	0.047
	Left 10mm	0.257			
	Right 10mm	0.088	0.206	0.092	0.035
	Bottom 10mm	0.169			
	Top 10mm	0.218	0.172	0.491	0.027
	Front 15mm	0.454	0.289	0.240	0.067
	Rear 22mm	0.715	0.423	0.194	0.047
	Top 22mm	0.218	0.172	0.491	0.027

Test Position / SAR 1g(W/kg)		simultaneous transmission 1+2	1+3	1+4	1+3+4
Head	Left Cheek	1.115	0.824	0.738	1.072
	Left Tilt	1.117	0.902	0.706	1.020
	Right Cheek	0.798	0.937	0.650	1.020
	Right Tilt	0.876	1.057	0.711	1.117
Body	Front 10mm	0.742	0.694	0.521	0.761
	Rear 10mm	1.138	0.909	0.762	0.956
	Left 10mm	0.257	0.257	0.257	0.257
	Right 10mm	0.294	0.180	0.123	0.215
	Bottom 10mm	0.169	0.169	0.169	0.169
	Top 10mm	0.390	0.709	0.245	0.736
	Front 15mm	0.742	0.694	0.521	0.761
	Rear 22mm	1.138	0.909	0.762	0.956
	Top 22mm	0.390	0.709	0.245	0.736

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.

14 SAR Test Result

Note:

KDB 447498 D01 General RF Exposure Guidance:

For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor

For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz

≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz

≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

KDB 648474 D04 Handset SAR:

With headset attached, when the reported SAR for body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

KDB 941225 D01 SAR test for 3G devices:

When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

KDB 941225 D05 SAR for LTE Devices:

SAR test reduction is applied using the following criteria:

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% 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 for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.

Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low,Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.

Testing for 16-QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.

Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is <1.45 W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.

For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the

group of overlapping channels should be selected for testing; therefore, the requirement for H, M and L channels may not fully apply.

KDB 248227 D01 SAR meas for 802.11:

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions.An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; these are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

To determine the initial test position, Area Scans were performed to determine the position with the Maximum Value of SAR (measured). The position that produced the highest Maximum Value of SAR is considered the worst case position; thus used as the initial test position.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the initial test position(s) by applying the DSSS or OFDM SAR measurement procedures in the required wireless mode test configuration(s). The initial test position(s) is measured using the highest measured maximum output power channel in the required wireless mode test configuration(s).

When the reported SAR for the initial test position is:

$\leqslant$ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.

> 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the reported SAR is $\leqslant$ 0.8 W/kg or all required test positions are tested.

- For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
- When it is unclear, all equivalent conditions must be tested.

For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is $\leqslant$ 1.2 W/kg or all required test channels are considered.

- The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.

When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is $\leqslant$ 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.

When the specified maximum output power is different between UNII 1 and UNII 2A, begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤ 1.2 W/kg, testing for the band with the lower specified output power is not required; otherwise test the remaining bands independently for SAR.

Table 14.1: Duty Cycle

Mode	Duty Cycle
Speech for GSM	1:8.3
GPRS&EGPRS 1 Slot	1:8.3
GPRS&EGPRS 2 Slot	1:4
GPRS&EGPRS 3 Slot	1:2.67
GPRS&EGPRS 4 Slot	1:2
WCDMA&LTE FDD	1:1
TDD PC3	1:1.58
TDD PC2	1:2.31

Note1: The data is used for stand-alone
Note2: The data is used for simultaneous transmission
Note3: The data is used for sensor on
Note4: The data is used for sensor off

14.1 SAR results for 2G/3G/4G

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	Note	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
2	Head	GSM850	190	836.6	GPRS(4TX)	Cheek Left	0mm	\	\	28.09	29.00	0.522	**0.644**	0.388	**0.478**	-0.16
2	Head	GSM850	190	836.6	GPRS(4TX)	Tilt Left	0mm	\	\	28.09	29.00	0.378	**0.466**	0.279	**0.344**	-0.07
2	Head	GSM850	251	848.8	GPRS(4TX)	Cheek Right	0mm	\	\	27.95	29.00	0.706	**0.899**	0.503	**0.641**	0.19
.	Head	GSM850	190	836.6	GPRS(4TX)	Cheek Right	0mm	FIG A.1	\	28.09	29.00	0.738	**0.910**	0.522	**0.644**	-0.07
2	Head	GSM850	128	824.2	GPRS(4TX)	Cheek Right	0mm	\	\	27.70	29.00	0.685	**0.924**	0.489	**0.660**	0.08
2	Head	GSM850	190	836.6	GPRS(4TX)	Tilt Right	0mm	\	\	28.09	29.00	0.321	**0.396**	0.242	**0.298**	0.18
2	Body	GSM850	190	836.6	GPRS(4TX)	Front	10mm	\	\	28.09	29.00	0.423	**0.522**	0.284	**0.350**	0.11
2	Body	GSM850	251	848.8	GPRS(4TX)	Rear	10mm	\	\	27.95	29.00	0.613	**0.781**	0.386	**0.492**	-0.16
2	Body	GSM850	190	836.6	GPRS(4TX)	Rear	10mm	FIG A.2	\	28.09	29.00	0.695	**0.857**	0.432	**0.533**	-0.08
2	Body	GSM850	128	824.2	GPRS(4TX)	Rear	10mm	\	\	27.70	29.00	0.596	**0.804**	0.374	**0.505**	-0.12
2	Body	GSM850	190	836.6	GPRS(4TX)	Left	10mm	\	\	28.09	29.00	0.317	**0.391**	0.207	**0.255**	-0.08
2	Body	GSM850	190	836.6	GPRS(4TX)	Bottom	10mm	\	\	28.09	29.00	0.399	**0.492**	0.201	**0.248**	-0.07
2	Body	GSM850	190	836.6	EGPRS(4TX)	Rear	10mm	\	\	28.11	29.00	0.671	**0.824**	0.418	**0.513**	0.05
1	Head	GSM1900	810	1909.8	GPRS(4TX)	Cheek Left	0mm	\	\	25.18	26.00	0.297	**0.359**	0.190	**0.229**	-0.08
1	Head	GSM1900	661	1880	GPRS(4TX)	Cheek Left	0mm	FIG A.3	\	25.16	26.00	0.322	**0.391**	0.204	**0.248**	0.12
1	Head	GSM1900	512	1850.2	GPRS(4TX)	Cheek Left	0mm	\	\	25.39	26.00	0.317	**0.365**	0.198	**0.228**	0.14
1	Head	GSM1900	661	1880	GPRS(4TX)	Tilt Left	0mm	\	\	25.16	26.00	0.181	**0.220**	0.109	**0.132**	-0.11
1	Head	GSM1900	661	1880	GPRS(4TX)	Cheek Right	0mm	\	\	25.16	26.00	0.265	**0.322**	0.168	**0.204**	0.05
1	Head	GSM1900	661	1880	GPRS(4TX)	Tilt Right	0mm	\	\	25.16	26.00	0.205	**0.249**	0.128	**0.155**	-0.09
1	Body	GSM1900	661	1880	GPRS(4TX)	Front	10mm	\	\	22.27	23.00	0.314	**0.371**	0.197	**0.233**	-0.18
1	Body	GSM1900	810	1909.8	GPRS(4TX)	Rear	10mm	\	\	22.51	23.00	0.725	**0.812**	0.419	**0.469**	0.11
1	Body	GSM1900	661	1880	GPRS(4TX)	Rear	10mm	\	\	22.27	23.00	0.698	**0.826**	0.402	**0.476**	0.13
1	Body	GSM1900	512	1850.2	GPRS(4TX)	Rear	10mm	\	\	22.41	23.00	0.674	**0.772**	0.387	**0.443**	-0.09
1	Body	GSM1900	661	1880	GPRS(4TX)	Right	10mm	\	\	22.27	23.00	0.158	**0.187**	0.092	**0.109**	0.03
1	Body	GSM1900	810	1909.8	GPRS(4TX)	Bottom	10mm	FIG A.4	\	22.51	23.00	1.030	**1.153**	0.566	**0.634**	0.09
1	Body	GSM1900	661	1880	GPRS(4TX)	Bottom	10mm	\	\	22.27	23.00	0.905	**1.071**	0.500	**0.592**	-0.15
1	Body	GSM1900	512	1850.2	GPRS(4TX)	Bottom	10mm	\	\	22.41	23.00	0.885	**1.014**	0.488	**0.559**	0.08
1	Body	GSM1900	810	1909.8	EGPRS(4TX)	Bottom	10mm	\	\	22.50	23.00	0.992	**1.113**	0.557	**0.625**	0.15
2	Head	WCDMA 850	4183	836.6	RMC	Cheek Left	0mm	\	\	24.07	25.00	0.156	**0.193**	0.125	**0.155**	-0.11
2	Head	WCDMA 850	4183	836.6	RMC	Tilt Left	0mm	\	\	24.07	25.00	0.104	**0.129**	0.083	**0.103**	0.01
2	Head	WCDMA 850	4233	846.6	RMC	Cheek Right	0mm	\	\	24.04	25.00	0.177	**0.221**	0.133	**0.166**	-0.19
2	Head	WCDMA 850	4183	836.6	RMC	Cheek Right	0mm	FIG A.5	\	24.07	25.00	0.185	**0.229**	0.139	**0.172**	0.11
2	Head	WCDMA 850	4132	826.4	RMC	Cheek Right	0mm	\	\	24.14	25.00	0.172	**0.210**	0.128	**0.156**	0.18
2	Head	WCDMA 850	4183	836.6	RMC	Tilt Right	0mm	\	\	24.07	25.00	0.099	**0.123**	0.078	**0.097**	0.03
2	Body	WCDMA 850	4183	836.6	RMC	Front	10mm	\	\	24.07	25.00	0.337	**0.417**	0.214	**0.265**	-0.08
2	Body	WCDMA 850	4233	846.6	RMC	Rear	10mm	\	\	24.04	25.00	0.479	**0.597**	0.293	**0.365**	0.03
2	Body	WCDMA 850	4183	836.6	RMC	Rear	10mm	FIG A.6	\	24.07	25.00	0.510	**0.632**	0.312	**0.387**	-0.01
2	Body	WCDMA 850	4132	826.4	RMC	Rear	10mm	\	\	24.14	25.00	0.494	**0.602**	0.304	**0.371**	0.06
2	Body	WCDMA 850	4183	836.6	RMC	Left	10mm	\	\	24.07	25.00	0.193	**0.239**	0.124	**0.154**	0.09
2	Body	WCDMA 850	4183	836.6	RMC	Bottom	10mm	\	\	24.07	25.00	0.299	**0.370**	0.161	**0.199**	0.08
1	Head	WCDMA 1700	1513	1752.6	RMC	Cheek Left	0mm	FIG A.7	\	24.03	25.00	0.179	**0.224**	0.116	**0.145**	0.12
1	Head	WCDMA 1700	1412	1732.4	RMC	Cheek Left	0mm	\	\	24.10	25.00	0.177	**0.218**	0.115	**0.141**	0.04
1	Head	WCDMA 1700	1312	1712.4	RMC	Cheek Left	0mm	\	\	24.02	25.00	0.174	**0.218**	0.113	**0.142**	0.09
1	Head	WCDMA 1700	1412	1732.4	RMC	Tilt Left	0mm	\	\	24.10	25.00	0.090	**0.111**	0.058	**0.071**	0.04
1	Head	WCDMA 1700	1412	1732.4	RMC	Cheek Right	0mm	\	\	24.10	25.00	0.101	**0.124**	0.069	**0.085**	-0.01
1	Head	WCDMA 1700	1412	1732.4	RMC	Tilt Right	0mm	\	\	24.10	25.00	0.083	**0.102**	0.056	**0.069**	0.16
1	Body	WCDMA 1700	1412	1732.4	RMC	Front	10mm	\	\	21.88	23.00	0.273	**0.353**	0.183	**0.237**	-0.17
1	Body	WCDMA 1700	1412	1732.4	RMC	Rear	10mm	\	\	21.88	23.00	0.575	**0.744**	0.350	**0.453**	-0.08
1	Body	WCDMA 1700	1412	1732.4	RMC	Right	10mm	\	\	21.88	23.00	0.181	**0.234**	0.110	**0.142**	0.02
1	Body	WCDMA 1700	1513	1752.6	RMC	Bottom	10mm	\	\	21.83	23.00	0.635	**0.831**	0.375	**0.491**	0.08
1	Body	WCDMA 1700	1412	1732.4	RMC	Bottom	10mm	FIG A.8	\	21.88	23.00	0.849	**1.099**	0.504	**0.652**	0.07
1	Body	WCDMA 1700	1312	1712.4	RMC	Bottom	10mm	\	\	21.92	23.00	0.582	**0.746**	0.344	**0.441**	-0.08
1	Head	WCDMA 1900	9538	1907.6	RMC	Cheek Left	0mm	\	\	24.02	25.00	0.184	**0.231**	0.115	**0.144**	-0.01
1	Head	WCDMA 1900	9400	1880	RMC	Cheek Left	0mm	FIG A.9	\	24.01	25.00	0.206	**0.259**	0.127	**0.160**	0.12
1	Head	WCDMA 1900	9262	1852.4	RMC	Cheek Left	0mm	\	\	24.12	25.00	0.190	**0.233**	0.119	**0.146**	-0.01
1	Head	WCDMA 1900	9400	1880	RMC	Tilt Left	0mm	\	\	24.01	25.00	0.121	**0.152**	0.070	**0.088**	-0.19
1	Head	WCDMA 1900	9400	1880	RMC	Cheek Right	0mm	\	\	24.01	25.00	0.184	**0.231**	0.110	**0.138**	-0.02
1	Head	WCDMA 1900	9400	1880	RMC	Tilt Right	0mm	\	\	24.01	25.00	0.141	**0.177**	0.084	**0.106**	-0.02
1	Body	WCDMA 1900	9400	1880	RMC	Front	10mm	\	\	22.61	23.50	0.418	**0.513**	0.370	**0.454**	-0.10
1	Body	WCDMA 1900	9538	1907.6	RMC	Rear	10mm	\	\	22.72	23.50	0.764	**0.914**	0.618	**0.740**	0.18
1	Body	WCDMA 1900	9400	1880	RMC	Rear	10mm	\	\	22.61	23.50	0.727	**0.892**	0.600	**0.736**	0.17
1	Body	WCDMA 1900	9262	1852.4	RMC	Rear	10mm	\	\	22.55	23.50	0.738	**0.918**	0.607	**0.755**	0.06
1	Body	WCDMA 1900	9400	1880	RMC	Right	10mm	\	\	22.61	23.50	0.190	**0.233**	0.156	**0.191**	0.11
1	Body	WCDMA 1900	9538	1907.6	RMC	Bottom	10mm	\	\	22.72	23.50	0.784	**0.938**	0.635	**0.760**	0.15
1	Body	WCDMA 1900	9400	1880	RMC	Bottom	10mm	\	\	22.61	23.50	0.914	**1.122**	0.730	**0.896**	0.05
1	Body	WCDMA 1900	9262	1852.4	RMC	Bottom	10mm	FIG A.10	\	22.55	23.50	0.934	**1.162**	0.528	**0.657**	0.08

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	Note	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
1	Head	LTE Band2	18900	1880	1RB-Middle	Cheek Left	0mm	\	\	23.33	24.50	0.065	**0.085**	0.041	**0.054**	0.12
1	Head	LTE Band2	18900	1880	1RB-Middle	Tilt Left	0mm	\	\	23.33	24.50	0.061	**0.080**	0.037	**0.048**	-0.18
1	Head	LTE Band2	18900	1880	1RB-Middle	Cheek Right	0mm	\	\	23.33	24.50	0.102	**0.134**	0.065	**0.085**	0.19
1	Head	LTE Band2	18900	1880	1RB-Middle	Tilt Right	0mm	\	\	23.33	24.50	0.058	**0.076**	0.037	**0.048**	-0.11
1	Head	LTE Band2	18900	1880	50RB-Middle	Cheek Left	0mm	\	\	22.40	23.50	0.066	**0.085**	0.043	**0.055**	0.11
1	Head	LTE Band2	18900	1880	50RB-Middle	Tilt Left	0mm	\	\	22.40	23.50	0.050	**0.064**	0.032	**0.041**	0.12
1	Head	LTE Band2	18900	1880	50RB-Middle	Cheek Right	0mm	\	\	22.40	23.50	0.081	**0.104**	0.052	**0.067**	0.15
1	Head	LTE Band2	18900	1880	50RB-Middle	Tilt Right	0mm	\	\	22.40	23.50	0.045	**0.058**	0.028	**0.036**	0.01
1	Head	LTE Band2	19100	1900	1RB-Middle	Cheek Right	0mm	\	ULCA	23.14	24.50	0.086	**0.118**	0.054	**0.074**	0.14
1	Body	LTE Band2	18900	1880	1RB-Middle	Front	10mm	\	Note1	22.29	23.50	0.331	**0.437**	0.214	**0.283**	0.03
1	Body	LTE Band2	19100	1900	1RB-Middle	Rear	10mm	\	Note1	22.20	23.50	0.706	**0.952**	0.416	**0.561**	-0.19
1	Body	LTE Band2	18900	1880	1RB-Middle	Rear	10mm	\	Note1	22.29	23.50	0.742	**0.980**	0.433	**0.572**	0.08
1	Body	LTE Band2	18700	1860	1RB-Middle	Rear	10mm	\	Note1	22.18	23.50	0.724	**0.981**	0.426	**0.577**	0.02
1	Body	LTE Band2	18900	1880	1RB-Middle	Right	10mm	\	Note1	22.29	23.50	0.216	**0.285**	0.120	**0.159**	0.05
1	Body	LTE Band2	19100	1900	1RB-Middle	Bottom	10mm	\	Note1	22.20	23.50	0.763	**1.029**	0.441	**0.595**	-0.19
1	Body	LTE Band2	18900	1880	1RB-Middle	Bottom	10mm	\	Note1	22.29	23.50	0.803	**1.061**	0.469	**0.620**	0.14
1	Body	LTE Band2	18700	1860	1RB-Middle	Bottom	10mm	FIG A.12	Note1	22.18	23.50	0.873	**1.183**	0.510	**0.691**	-0.01
1	Body	LTE Band2	18900	1880	50RB-Middle	Front	10mm	\	Note1	22.34	23.50	0.331	**0.432**	0.213	**0.278**	-0.07
1	Body	LTE Band2	19100	1900	50RB-Middle	Rear	10mm	\	Note1	22.31	23.50	0.710	**0.934**	0.425	**0.559**	0.16
1	Body	LTE Band2	18900	1880	50RB-Middle	Rear	10mm	\	Note1	22.34	23.50	0.746	**0.974**	0.443	**0.579**	-0.07
1	Body	LTE Band2	18700	1860	50RB-Middle	Rear	10mm	\	Note1	22.30	23.50	0.728	**0.960**	0.436	**0.575**	0.08
1	Body	LTE Band2	18900	1880	50RB-Middle	Right	10mm	\	Note1	22.34	23.50	0.218	**0.285**	0.122	**0.159**	-0.19
1	Body	LTE Band2	19100	1900	50RB-Middle	Bottom	10mm	\	Note1	22.31	23.50	0.736	**0.968**	0.428	**0.563**	0.11
1	Body	LTE Band2	18900	1880	50RB-Middle	Bottom	10mm	\	Note1	22.34	23.50	0.773	**1.010**	0.446	**0.583**	0.01
1	Body	LTE Band2	18700	1860	50RB-Middle	Bottom	10mm	\	Note1	22.30	23.50	0.754	**0.994**	0.439	**0.579**	0.05
1	Body	LTE Band2	19100	1900	100RB	Rear	10mm	\	Note1	22.30	23.50	0.724	**0.954**	0.431	**0.568**	0.07
1	Body	LTE Band2	19100	1900	100RB	Bottom	10mm	\	Note1	22.30	23.50	0.764	**1.007**	0.442	**0.583**	-0.19
1	Body	LTE Band2	18700	1860	1RB-Middle	Bottom	10mm	\	ULCA	22.19	23.50	0.853	**1.153**	0.482	**0.652**	0.16
1	Body	LTE Band2	18900	1880	1RB-Middle	Front	10mm	\	Note2	19.25	20.50	0.173	**0.231**	0.113	**0.151**	0.16
1	Body	LTE Band2	18900	1880	1RB-Middle	Rear	10mm	\	Note2	19.25	20.50	0.393	**0.524**	0.230	**0.307**	0.02
1	Body	LTE Band2	18900	1880	1RB-Middle	Right	10mm	\	Note2	19.25	20.50	0.107	**0.143**	0.060	**0.080**	-0.10
1	Body	LTE Band2	18900	1880	1RB-Middle	Bottom	10mm	\	Note2	19.25	20.50	0.443	**0.591**	0.262	**0.349**	-0.11
1	Body	LTE Band2	18900	1880	50RB-Middle	Front	10mm	\	Note2	19.35	20.50	0.179	**0.233**	0.115	**0.150**	0.10
1	Body	LTE Band2	18900	1880	50RB-Middle	Rear	10mm	\	Note2	19.35	20.50	0.394	**0.513**	0.239	**0.311**	0.12
1	Body	LTE Band2	18900	1880	50RB-Middle	Right	10mm	\	Note2	19.35	20.50	0.112	**0.146**	0.064	**0.083**	0.17
1	Body	LTE Band2	18900	1880	50RB-Middle	Bottom	10mm	\	Note2	19.35	20.50	0.457	**0.596**	0.267	**0.348**	0.15
5	Head	LTE Band2	18900	1880	1RB-Middle	Cheek Left	0mm	\	Note2	18.99	20.00	0.296	**0.374**	0.153	**0.193**	0.13
5	Head	LTE Band2	18900	1880	1RB-Middle	Tilt Left	0mm	\	Note2	18.99	20.00	0.400	**0.505**	0.199	**0.251**	-0.19
5	Head	LTE Band2	18900	1880	1RB-Middle	Cheek Right	0mm	\	Note2	18.99	20.00	0.416	**0.525**	0.209	**0.264**	0.16
5	Head	LTE Band2	18900	1880	1RB-Middle	Tilt Right	0mm	\	Note2	18.99	20.00	0.555	**0.700**	0.262	**0.331**	-0.11
5	Head	LTE Band2	18900	1880	50RB-Middle	Cheek Left	0mm	\	Note2	19.03	20.00	0.272	**0.340**	0.143	**0.179**	-0.14
5	Head	LTE Band2	18900	1880	50RB-Middle	Tilt Left	0mm	\	Note2	19.03	20.00	0.414	**0.518**	0.206	**0.258**	0.02
5	Head	LTE Band2	18900	1880	50RB-Middle	Cheek Right	0mm	\	Note2	19.03	20.00	0.451	**0.564**	0.228	**0.285**	0.14
5	Head	LTE Band2	18900	1880	50RB-Middle	Tilt Right	0mm	FIG A.11	Note2	19.03	20.00	0.563	**0.704**	0.255	**0.319**	0.03
5	Body	LTE Band2	18900	1880	1RB-Middle	Front	10mm	\	Note2/3	20.79	22.00	0.131	**0.173**	0.084	**0.111**	0.10
5	Body	LTE Band2	18900	1880	1RB-Middle	Rear	10mm	\	Note2/3	20.79	22.00	0.306	**0.404**	0.159	**0.210**	0.10
5	Body	LTE Band2	18900	1880	1RB-Middle	Right	10mm	\	Note2/3	20.79	22.00	0.085	**0.112**	0.050	**0.066**	-0.02
5	Body	LTE Band2	18900	1880	1RB-Middle	Top	10mm	\	Note2/3	20.79	22.00	0.426	**0.563**	0.217	**0.287**	0.11
5	Body	LTE Band2	18900	1880	50RB-Middle	Front	10mm	\	Note2/3	20.95	22.00	0.145	**0.185**	0.081	**0.103**	-0.14
5	Body	LTE Band2	18900	1880	50RB-Middle	Rear	10mm	\	Note2/3	20.95	22.00	0.395	**0.503**	0.204	**0.260**	-0.05
5	Body	LTE Band2	18900	1880	50RB-Middle	Right	10mm	\	Note2/3	20.95	22.00	0.089	**0.113**	0.052	**0.066**	0.11
5	Body	LTE Band2	18900	1880	50RB-Middle	Top	10mm	\	Note2/3	20.95	22.00	0.424	**0.540**	0.216	**0.275**	-0.10
5	Body	LTE Band2	19100	1900	1RB-Low	Front	15mm	\	Note2/4	23.38	24.50	0.175	**0.226**	0.100	**0.129**	-0.03
5	Body	LTE Band2	19100	1900	1RB-Low	Rear	22mm	\	Note2/4	23.38	24.50	0.212	**0.274**	0.122	**0.158**	-0.15
5	Body	LTE Band2	19100	1900	1RB-Low	Rear	22mm	\	Note2/4	23.38	24.50	0.257	**0.333**	0.149	**0.193**	0.03
5	Body	LTE Band2	18900	1880	50RB-High	Front	15mm	\	Note2/4	22.47	23.50	0.139	**0.176**	0.079	**0.100**	-0.18
5	Body	LTE Band2	18900	1880	50RB-High	Rear	22mm	\	Note2/4	22.47	23.50	0.148	**0.188**	0.087	**0.110**	-0.13
5	Body	LTE Band2	18900	1880	50RB-High	Rear	22mm	\	Note2/4	22.47	23.50	0.202	**0.256**	0.118	**0.150**	-0.14
5	Head	LTE Band7	20850	2535	1RB-Middle	Cheek Left	0mm	\	\	17.02	18.00	0.564	**0.707**	0.234	**0.293**	0.17
5	Head	LTE Band7	21350	2560	1RB-Middle	Tilt Left	0mm	\	\	16.97	18.00	0.762	**0.966**	0.318	**0.403**	0.12
5	Head	LTE Band7	21100	2535	1RB-Middle	Tilt Left	0mm	\	\	17.02	18.00	0.781	**0.979**	0.326	**0.409**	-0.02
5	Head	LTE Band7	20850	2510	1RB-Middle	Tilt Left	0mm	\	\	16.95	18.00	0.755	**0.961**	0.306	**0.390**	0.05
5	Head	LTE Band7	21100	2535	1RB-Middle	Cheek Right	0mm	\	\	17.02	18.00	0.562	**0.704**	0.223	**0.279**	-0.05
5	Head	LTE Band7	21350	2560	1RB-Middle	Tilt Right	0mm	FIG A.13	\	16.97	18.00	0.881	**1.117**	0.341	**0.432**	0.18
5	Head	LTE Band7	21100	2535	1RB-Middle	Tilt Right	0mm	\	\	17.02	18.00	0.804	**1.008**	0.315	**0.395**	0.06
5	Head	LTE Band7	20850	2510	1RB-Middle	Tilt Right	0mm	\	\	16.95	18.00	0.783	**0.997**	0.309	**0.394**	0.05
5	Head	LTE Band7	20850	2535	50RB-Middle	Cheek Left	0mm	\	\	17.03	18.00	0.437	**0.546**	0.179	**0.224**	0.19
5	Head	LTE Band7	21350	2560	50RB-Middle	Tilt Left	0mm	\	\	16.99	18.00	0.748	**0.944**	0.281	**0.355**	0.03
5	Head	LTE Band7	21100	2535	50RB-Middle	Tilt Left	0mm	\	\	17.03	18.00	0.769	**0.961**	0.302	**0.378**	-0.04
5	Head	LTE Band7	20850	2510	50RB-Middle	Tilt Left	0mm	\	\	17.02	18.00	0.736	**0.922**	0.276	**0.346**	-0.19
5	Head	LTE Band7	20850	2535	50RB-Middle	Cheek Right	0mm	\	\	17.03	18.00	0.587	**0.734**	0.227	**0.284**	0.05
5	Head	LTE Band7	21350	2560	50RB-Middle	Tilt Right	0mm	\	\	16.99	18.00	0.768	**0.969**	0.286	**0.361**	0.17
5	Head	LTE Band7	21100	2535	50RB-Middle	Tilt Right	0mm	\	\	17.03	18.00	0.790	**0.988**	0.307	**0.384**	0.13
5	Head	LTE Band7	20850	2510	50RB-Middle	Tilt Right	0mm	\	\	17.02	18.00	0.756	**0.947**	0.281	**0.352**	0.16
5	Head	LTE Band7	20850	2510	100RB	Tilt Left	0mm	\	\	17.02	18.00	0.724	**0.907**	0.269	**0.337**	0.02
5	Head	LTE Band7	20850	2510	100RB	Tilt Left	0mm	\	\	17.02	18.00	0.737	**0.924**	0.273	**0.342**	-0.09
5	Body	LTE Band7	21100	2535	1RB-Middle	Front	10mm	\	Note1/3	17.84	19.00	0.286	**0.374**	0.141	**0.184**	-0.06
5	Body	LTE Band7	21100	2535	1RB-Middle	Rear	10mm		Note1/3	17.84	19.00	0.551	**0.720**	0.255	**0.333**	0.06
5	Body	LTE Band7	21100	2535	1RB-Middle	Left	10mm	\	Note1/3	17.84	19.00	0.114	**0.149**	0.061	**0.080**	-0.04
5	Body	LTE Band7	21350	2560	1RB-Middle	Top	10mm	FIG A.14	Note1/3	17.81	19.00	0.899	**1.182**	0.406	**0.534**	0.05
5	Body	LTE Band7	21100	2535	1RB-Middle	Top	10mm	\	Note1/3	17.84	19.00	0.849	**1.109**	0.383	**0.500**	0.18
5	Body	LTE Band7	20850	2510	1RB-Middle	Top	10mm	\	Note1/3	17.81	19.00	0.721	**0.948**	0.326	**0.429**	0.17
5	Body	LTE Band7	20850	2535	50RB-Middle	Front	10mm	\	Note1/3	17.93	19.00	0.310	**0.397**	0.150	**0.192**	0.02
5	Body	LTE Band7	20850	2535	50RB-Middle	Rear	10mm	\	Note1/3	17.93	19.00	0.573	**0.733**	0.259	**0.331**	-0.12
5	Body	LTE Band7	20850	2535	50RB-Middle	Left	10mm	\	Note1/3	17.93	19.00	0.143	**0.183**	0.076	**0.097**	0.07
5	Body	LTE Band7	21350	2560	50RB-Middle	Top	10mm	\	Note1/3	17.85	19.00	0.822	**1.071**	0.364	**0.474**	0.16
5	Body	LTE Band7	21100	2535	50RB-Middle	Top	10mm	\	Note1/3	17.93	19.00	0.851	**1.089**	0.386	**0.494**	0.14
5	Body	LTE Band7	20850	2510	50RB-Middle	Top	10mm	\	Note1/3	17.89	19.00	0.714	**0.922**	0.319	**0.412**	-0.09
5	Body	LTE Band7	20850	2510	100RB	Top	10mm	\	Note1/3	17.91	19.00	0.814	**1.046**	0.358	**0.460**	0.15
5	Body	LTE Band7	21100	2535	1RB-Middle	Front	10mm	\	Note2/3	15.94	17.00	0.132	**0.168**	0.066	**0.084**	0.18
5	Body	LTE Band7	21100	2535	1RB-Middle	Rear	10mm	\	Note2/3	15.94	17.00	0.295	**0.377**	0.141	**0.180**	0.11
5	Body	LTE Band7	21100	2535	1RB-Middle	Left	10mm	\	Note2/3	15.94	17.00	0.076	**0.097**	0.040	**0.051**	-0.12
5	Body	LTE Band7	21100	2535	1RB-Middle	Top	10mm	\	Note2/3	15.94	17.00	0.457	**0.583**	0.192	**0.245**	0.09
5	Body	LTE Band7	20850	2535	50RB-Middle	Front	10mm	\	Note2/3	15.98	17.00	0.135	**0.171**	0.068	**0.086**	-0.12
5	Body	LTE Band7	20850	2535	50RB-Middle	Rear	10mm	\	Note2/3	15.98	17.00	0.285	**0.360**	0.131	**0.166**	0.07
5	Body	LTE Band7	20850	2535	50RB-Middle	Left	10mm	\	Note2/3	15.98	17.00	0.108	**0.137**	0.061	**0.077**	0.08
5	Body	LTE Band7	20850	2535	50RB-Middle	Top	10mm	\	Note2/3	15.98	17.00	0.448	**0.567**	0.199	**0.252**	-0.19
5	Body	LTE Band7	21100	2535	1RB-Middle	Front	15mm	\	Note4	23.25	24.50	0.305	**0.407**	0.176	**0.235**	-0.17
5	Body	LTE Band7	21100	2535	1RB-Middle	Rear	22mm	\	Note4	23.25	24.50	0.405	**0.540**	0.215	**0.287**	0.11
5	Body	LTE Band7	21100	2535	1RB-Middle	Rear	22mm	\	Note4	23.25	24.50	0.594	**0.792**	0.316	**0.421**	0.02
5	Body	LTE Band7	21100	2535	50RB-Middle	Front	15mm	\	Note4	22.24	23.50	0.267	**0.357**	0.132	**0.176**	0.18
5	Body	LTE Band7	21100	2535	50RB-Middle	Rear	22mm	\	Note4	22.24	23.50	0.350	**0.468**	0.185	**0.247**	0.04
5	Body	LTE Band7	21100	2535	50RB-Middle	Rear	22mm	\	Note4	22.24	23.50	0.563	**0.753**	0.291	**0.389**	-0.19

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	Note	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
2	Head	LTE Band12	23060	704	1RB-Low	Cheek Left	0mm	\	\	23.48	24.50	0.108	**0.137**	0.089	**0.113**	0.18
2	Head	LTE Band12	23060	704	1RB-Low	Tilt Left	0mm	\	\	23.48	24.50	0.057	**0.072**	0.048	**0.061**	0.01
2	Head	LTE Band12	23060	704	1RB-Low	Cheek Right	0mm	FIG A.15	\	23.48	24.50	0.113	0.143	0.091	**0.115**	0.06
2	Head	LTE Band12	23060	704	1RB-Low	Tilt Right	0mm	\	\	23.48	24.50	0.086	**0.109**	0.073	**0.092**	-0.01
2	Head	LTE Band12	23060	704	25RB-Middle	Cheek Left	0mm	\	\	22.41	23.50	0.051	**0.066**	0.043	**0.055**	-0.06
2	Head	LTE Band12	23060	704	25RB-Middle	Tilt Left	0mm	\	\	22.41	23.50	0.062	**0.080**	0.051	**0.066**	0.17
2	Head	LTE Band12	23060	704	25RB-Middle	Cheek Right	0mm	\	\	22.41	23.50	0.090	**0.116**	0.073	**0.094**	-0.05
2	Head	LTE Band12	23060	704	25RB-Middle	Tilt Right	0mm	\	\	22.41	23.50	0.048	**0.062**	0.039	**0.050**	-0.04
2	Body	LTE Band12	23060	704	1RB-Low	Front	10mm	\	\	23.48	24.50	0.125	**0.158**	0.098	**0.124**	-0.13
2	Body	LTE Band12	23060	704	1RB-Low	Rear	10mm	FIG A.16	\	23.48	24.50	0.222	0.281	0.171	**0.216**	0.08
2	Body	LTE Band12	23060	704	1RB-Low	Left	10mm	\	\	23.48	24.50	0.180	**0.228**	0.142	**0.180**	0.18
2	Body	LTE Band12	23060	704	1RB-Low	Bottom	10mm	\	\	23.48	24.50	0.088	**0.111**	0.050	**0.063**	-0.13
2	Body	LTE Band12	23060	704	25RB-Middle	Front	10mm	\	\	22.41	23.50	0.111	**0.143**	0.091	**0.117**	-0.05
2	Body	LTE Band12	23060	704	25RB-Middle	Rear	10mm	\	\	22.41	23.50	0.190	**0.244**	0.145	**0.186**	0.16
2	Body	LTE Band12	23060	704	25RB-Middle	Left	10mm	\	\	22.41	23.50	0.173	**0.222**	0.137	**0.176**	-0.02
2	Body	LTE Band12	23060	704	25RB-Middle	Bottom	10mm	\	\	22.41	23.50	0.073	**0.094**	0.051	**0.066**	-0.02
1	Head	LTE Band25	26590	1905	1RB-Middle	Cheek Left	0mm	\	\	23.43	24.50	0.144	**0.184**	0.094	**0.120**	-0.13
1	Head	LTE Band25	26590	1905	1RB-Middle	Tilt Left	0mm	\	\	23.43	24.50	0.075	**0.096**	0.046	**0.059**	0.19
1	Head	LTE Band25	26590	1905	1RB-Middle	Cheek Right	0mm	\	\	23.43	24.50	0.149	0.191	0.096	**0.123**	0.02
1	Head	LTE Band25	26590	1905	1RB-Middle	Tilt Right	0mm	\	\	23.43	24.50	0.122	**0.156**	0.077	**0.099**	0.03
1	Head	LTE Band25	26590	1905	50RB-High	Cheek Left	0mm	\	\	22.35	23.50	0.139	**0.181**	0.089	**0.116**	-0.04
1	Head	LTE Band25	26590	1905	50RB-High	Tilt Left	0mm	\	\	22.35	23.50	0.073	**0.095**	0.045	**0.059**	0.06
1	Head	LTE Band25	26590	1905	50RB-High	Cheek Right	0mm	\	\	22.35	23.50	0.114	**0.149**	0.073	**0.095**	-0.19
1	Head	LTE Band25	26590	1905	50RB-High	Tilt Right	0mm	\	\	22.35	23.50	0.091	**0.119**	0.057	**0.074**	0.07
1	Body	LTE Band25	26590	1905	1RB-Middle	Front	10mm	\	Note1	22.06	23.50	0.298	**0.415**	0.192	**0.267**	0.09
1	Body	LTE Band25	26590	1905	1RB-Middle	Rear	10mm	FIG A.18	Note1	22.06	23.50	0.797	1.110	0.480	**0.669**	0.11
1	Body	LTE Band25	26365	1882.5	1RB-Middle	Rear	10mm	\	Note1	22.03	23.50	0.769	**1.079**	0.445	**0.624**	0.06
1	Body	LTE Band25	26140	1860	1RB-Middle	Rear	10mm	\	Note1	22.05	23.50	0.771	**1.077**	0.451	**0.630**	-0.09
1	Body	LTE Band25	26590	1905	1RB-Middle	Right	10mm	\	Note1	22.06	23.50	0.243	**0.339**	0.137	**0.191**	0.09
1	Body	LTE Band25	26590	1905	1RB-Middle	Bottom	10mm	\	Note1	22.06	23.50	0.745	**1.038**	0.432	**0.602**	-0.13
1	Body	LTE Band25	26365	1882.5	1RB-Middle	Bottom	10mm	\	Note1	22.03	23.50	0.719	**1.009**	0.401	**0.563**	0.12
1	Body	LTE Band25	26140	1860	1RB-Middle	Bottom	10mm	\	Note1	22.05	23.50	0.721	**1.007**	0.406	**0.567**	-0.06
1	Body	LTE Band25	26590	1905	50RB-High	Front	10mm	\	Note1	22.05	23.50	0.280	**0.391**	0.183	**0.256**	-0.08
1	Body	LTE Band25	26590	1905	50RB-High	Rear	10mm	\	Note1	22.05	23.50	0.681	**0.951**	0.390	**0.545**	-0.16
1	Body	LTE Band25	26365	1882.5	50RB-High	Rear	10mm	\	Note1	22.02	23.50	0.657	**0.924**	0.371	**0.522**	0.05
1	Body	LTE Band25	26140	1860	50RB-High	Rear	10mm	\	Note1	22.01	23.50	0.659	**0.929**	0.373	**0.526**	0.12
1	Body	LTE Band25	26590	1905	50RB-High	Right	10mm	\	Note1	22.05	23.50	0.243	**0.339**	0.138	**0.193**	0.05
1	Body	LTE Band25	26590	1905	50RB-High	Bottom	10mm	\	Note1	22.05	23.50	0.719	**1.004**	0.418	**0.584**	-0.13
1	Body	LTE Band25	26365	1882.5	50RB-High	Bottom	10mm	\	Note1	22.02	23.50	0.694	**0.976**	0.388	**0.546**	0.13
1	Body	LTE Band25	26140	1860	50RB-High	Bottom	10mm	\	Note1	22.01	23.50	0.696	**0.981**	0.391	**0.551**	0.06
1	Body	LTE Band25	26365	1882.5	100RB	Rear	10mm	\	Note1	22.03	23.50	0.672	**0.943**	0.384	**0.539**	0.16
1	Body	LTE Band25	26365	1882.5	100RB	Bottom	10mm	\	Note1	22.03	23.50	0.683	**0.958**	0.382	**0.536**	-0.09
1	Body	LTE Band25	26590	1905	1RB-Middle	Front	10mm	\	Note2	19.09	20.50	0.184	**0.255**	0.115	**0.159**	-0.18
1	Body	LTE Band25	26590	1905	1RB-Middle	Rear	10mm	\	Note2	19.09	20.50	0.434	**0.600**	0.245	**0.339**	-0.05
1	Body	LTE Band25	26590	1905	1RB-Middle	Right	10mm	\	Note2	19.09	20.50	0.163	**0.226**	0.079	**0.109**	0.13
1	Body	LTE Band25	26590	1905	1RB-Middle	Bottom	10mm	\	Note2	19.09	20.50	0.478	**0.661**	0.261	**0.361**	0.01
1	Body	LTE Band25	26590	1905	50RB-High	Front	10mm	\	Note2	19.09	20.50	0.187	**0.259**	0.118	**0.163**	-0.16
1	Body	LTE Band25	26590	1905	50RB-High	Rear	10mm	\	Note2	19.09	20.50	0.434	**0.600**	0.245	**0.339**	-0.08
1	Body	LTE Band25	26590	1905	50RB-High	Right	10mm	\	Note2	19.09	20.50	0.168	**0.232**	0.088	**0.122**	0.06
1	Body	LTE Band25	26590	1905	50RB-High	Bottom	10mm	\	Note2	19.09	20.50	0.399	**0.552**	0.224	**0.310**	-0.10
5	Head	LTE Band25	26590	1905	1RB-Middle	Cheek Left	0mm	\	Note2	18.96	20.00	0.339	**0.431**	0.173	**0.220**	-0.11
5	Head	LTE Band25	26590	1905	1RB-Middle	Tilt Left	0mm	\	Note2	18.96	20.00	0.482	**0.612**	0.236	**0.300**	0.09
5	Head	LTE Band25	26590	1905	1RB-Middle	Cheek Right	0mm	\	Note2	18.96	20.00	0.505	**0.642**	0.263	**0.334**	-0.14
5	Head	LTE Band25	26590	1905	1RB-Middle	Tilt Right	0mm	FIG A.17	Note2	18.96	20.00	0.580	0.737	0.266	**0.338**	0.17
5	Head	LTE Band25	26365	1882.5	50RB-Middle	Cheek Left	0mm	\	Note2	19.03	20.00	0.322	**0.403**	0.166	**0.208**	0.02
5	Head	LTE Band25	26365	1882.5	50RB-Middle	Tilt Left	0mm	\	Note2	19.03	20.00	0.434	**0.543**	0.216	**0.270**	-0.16
5	Head	LTE Band25	26365	1882.5	50RB-Middle	Cheek Right	0mm	\	Note2	19.03	20.00	0.495	**0.619**	0.259	**0.324**	-0.10
5	Head	LTE Band25	26365	1882.5	50RB-Middle	Tilt Right	0mm	\	Note2	19.03	20.00	0.560	**0.700**	0.263	**0.329**	-0.02
5	Body	LTE Band25	26590	1905	1RB-Low	Front	10mm	\	Note2/3	20.96	22.00	0.233	**0.296**	0.121	**0.154**	-0.07
5	Body	LTE Band25	26590	1905	1RB-Low	Rear	10mm	\	Note2/3	20.96	22.00	0.566	0.719	0.277	**0.352**	0.10
5	Body	LTE Band25	26590	1905	1RB-Low	Left	10mm	\	Note2/3	20.96	22.00	0.178	**0.226**	0.100	**0.127**	0.04
5	Body	LTE Band25	26590	1905	1RB-Low	Top	10mm	\	Note2/3	20.96	22.00	0.558	**0.709**	0.258	**0.328**	-0.17
5	Body	LTE Band25	26365	1882.5	50RB-Middle	Front	10mm	\	Note2/3	21.04	22.00	0.178	**0.222**	0.093	**0.116**	-0.19
5	Body	LTE Band25	26365	1882.5	50RB-Middle	Rear	10mm	\	Note2/3	21.04	22.00	0.463	**0.578**	0.223	**0.278**	0.06
5	Body	LTE Band25	26365	1882.5	50RB-Middle	Left	10mm	\	Note2/3	21.04	22.00	0.130	**0.162**	0.074	**0.092**	0.02
5	Body	LTE Band25	26365	1882.5	50RB-Middle	Top	10mm	\	Note2/3	21.04	22.00	0.405	**0.505**	0.186	**0.232**	-0.08
5	Body	LTE Band25	26365	1882.5	1RB-High	Front	15mm	\	Note2/4	22.92	24.50	0.323	**0.465**	0.203	**0.292**	0.07
5	Body	LTE Band25	26365	1882.5	1RB-High	Rear	22mm	\	Note2/4	22.92	24.50	0.356	**0.512**	0.217	**0.312**	0.10
5	Body	LTE Band25	26365	1882.5	1RB-High	Rear	22mm	\	Note2/4	22.92	24.50	0.264	**0.380**	0.162	**0.233**	0.08
5	Body	LTE Band25	26590	1905	50RB-High	Front	15mm	\	Note2/4	22.04	23.50	0.230	**0.322**	0.148	**0.207**	0.04
5	Body	LTE Band25	26590	1905	50RB-High	Rear	22mm	\	Note2/4	22.04	23.50	0.175	**0.245**	0.109	**0.153**	-0.07
5	Body	LTE Band25	26590	1905	50RB-High	Rear	22mm	\	Note2/4	22.04	23.50	0.108	**0.151**	0.067	**0.094**	-0.02
2	Head	LTE Band26	26865	831.5	1RB-Low	Cheek Left	0mm	\	\	23.30	24.50	0.144	**0.190**	0.117	**0.154**	-0.09
2	Head	LTE Band26	26865	831.5	1RB-Low	Tilt Left	0mm	\	\	23.30	24.50	0.076	**0.100**	0.063	**0.083**	0.08
2	Head	LTE Band26	26865	831.5	1RB-Low	Cheek Right	0mm	FIG A.19	\	23.30	24.50	0.157	0.207	0.124	**0.163**	0.12
2	Head	LTE Band26	26865	831.5	1RB-Low	Tilt Right	0mm	\	\	23.30	24.50	0.077	**0.102**	0.064	**0.084**	-0.07
2	Head	LTE Band26	26775	822.5	36RB-Middle	Cheek Left	0mm	\	\	22.39	23.50	0.101	**0.130**	0.081	**0.105**	0.04
2	Head	LTE Band26	26775	822.5	36RB-Middle	Tilt Left	0mm	\	\	22.39	23.50	0.047	**0.061**	0.039	**0.050**	0.16
2	Head	LTE Band26	26775	822.5	36RB-Middle	Cheek Right	0mm	\	\	22.39	23.50	0.121	**0.156**	0.095	**0.123**	-0.14
2	Head	LTE Band26	26775	822.5	36RB-Middle	Tilt Right	0mm	\	\	22.39	23.50	0.059	**0.076**	0.049	**0.063**	-0.06
2	Body	LTE Band26	26865	831.5	1RB-Low	Front	10mm	\	\	23.30	24.50	0.241	**0.318**	0.158	**0.208**	-0.10
2	Body	LTE Band26	26865	831.5	1RB-Low	Rear	10mm	FIG A.20	\	23.30	24.50	0.359	0.473	0.222	**0.293**	0.08
2	Body	LTE Band26	26865	831.5	1RB-Low	Left	10mm	\	\	23.30	24.50	0.146	**0.192**	0.098	**0.129**	0.17
2	Body	LTE Band26	26865	831.5	1RB-Low	Bottom	10mm	\	\	23.30	24.50	0.181	**0.239**	0.099	**0.131**	0.04
2	Body	LTE Band26	26775	822.5	36RB-Middle	Front	10mm	\	\	22.39	23.50	0.202	**0.261**	0.130	**0.168**	0.13
2	Body	LTE Band26	26775	822.5	36RB-Middle	Rear	10mm	\	\	22.39	23.50	0.295	**0.381**	0.185	**0.239**	0.17
2	Body	LTE Band26	26775	822.5	36RB-Middle	Left	10mm	\	\	22.39	23.50	0.120	**0.155**	0.081	**0.105**	-0.06
2	Body	LTE Band26	26775	822.5	36RB-Middle	Bottom	10mm	\	\	22.39	23.50	0.151	**0.195**	0.081	**0.105**	0.15

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	Note	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
5	Head	LTE Band41 PC2	41055	2636.5	1RB-Low	Cheek Left	0mm	\	\	21.32	22.00	0.431	**0.504**	0.169	**0.198**	-0.14
5	Head	LTE Band41 PC2	41055	2636.5	1RB-Low	Tilt Left	0mm	\	\	21.32	22.00	0.552	**0.646**	0.213	**0.249**	-0.02
5	Head	LTE Band41 PC2	41055	2636.5	1RB-Low	Cheek Right	0mm	\	\	21.32	22.00	0.500	**0.585**	0.212	**0.248**	0.13
5	Head	LTE Band41 PC2	41490	2680	1RB-Low	Tilt Right	0mm	\	\	21.30	22.00	0.744	**0.874**	0.336	**0.395**	0.03
5	Head	LTE Band41 PC2	41055	2636.5	1RB-Low	Tilt Right	0mm	\	\	21.32	22.00	0.870	**1.017**	0.368	**0.430**	-0.16
5	Head	LTE Band41 PC2	40620	2593	1RB-Low	Tilt Right	0mm	\	\	21.12	22.00	0.645	**0.790**	0.292	**0.358**	0.12
5	Head	LTE Band41 PC2	40185	2549.5	1RB-Low	Tilt Right	0mm	\	\	20.73	22.00	0.442	**0.592**	0.199	**0.267**	0.05
5	Head	LTE Band41 PC2	39750	2506	1RB-Low	Tilt Right	0mm	\	\	21.25	22.00	0.588	**0.699**	0.266	**0.316**	-0.09
5	Head	LTE Band41 PC2	41055	2636.5	50RB-Middle	Cheek Left	0mm	\	\	21.39	22.00	0.368	**0.423**	0.145	**0.167**	0.19
5	Head	LTE Band41 PC2	41055	2636.5	50RB-Middle	Tilt Left	0mm	\	\	21.39	22.00	0.551	**0.634**	0.213	**0.245**	0.15
5	Head	LTE Band41 PC2	41490	2680	50RB-Middle	Cheek Right	0mm	\	\	21.21	22.00	0.611	**0.733**	0.292	**0.350**	-0.16
5	Head	LTE Band41 PC2	41055	2636.5	50RB-Middle	Cheek Right	0mm	\	\	21.39	22.00	0.713	**0.821**	0.298	**0.343**	-0.09
5	Head	LTE Band41 PC2	40620	2593	50RB-Middle	Cheek Right	0mm	\	\	21.08	22.00	0.585	**0.723**	0.264	**0.326**	0.15
5	Head	LTE Band41 PC2	40185	2549.5	50RB-Middle	Cheek Right	0mm	\	\	20.76	22.00	0.371	**0.494**	0.168	**0.224**	0.08
5	Head	LTE Band41 PC2	39750	2506	50RB-Middle	Cheek Right	0mm	\	\	21.25	22.00	0.427	**0.507**	0.193	**0.229**	0.17
5	Head	LTE Band41 PC2	41490	2680	50RB-Middle	Tilt Right	0mm	\	\	21.21	22.00	0.711	**0.853**	0.318	**0.381**	0.02
5	Head	LTE Band41 PC2	41055	2636.5	50RB-Middle	Tilt Right	0mm	FIG A.21	\	21.39	22.00	0.925	1.064	0.382	**0.440**	0.08
5	Head	LTE Band41 PC2	40620	2593	50RB-Middle	Tilt Right	0mm	\	\	21.08	22.00	0.716	**0.885**	0.320	**0.396**	0.16
5	Head	LTE Band41 PC2	40185	2549.5	50RB-Middle	Tilt Right	0mm	\	\	20.76	22.00	0.471	**0.627**	0.215	**0.286**	0.19
5	Head	LTE Band41 PC2	39750	2506	50RB-Middle	Tilt Right	0mm	\	\	21.25	22.00	0.519	**0.617**	0.234	**0.278**	0.15
5	Head	LTE Band41 PC2	41055	2636.5	100RB	Cheek Right	0mm	\	\	21.15	22.00	0.698	**0.849**	0.321	**0.390**	0.01
5	Head	LTE Band41 PC2	41055	2636.5	100RB	Tilt Right	0mm	\	\	21.15	22.00	0.844	**1.026**	0.361	**0.439**	-0.01
5	Body	LTE Band41 PC2	41055	2636.5	1RB-Low	Front	10mm	\	Note1/3	21.32	22.00	0.219	**0.256**	0.114	**0.133**	0.18
5	Body	LTE Band41 PC2	41490	2680	1RB-Low	Rear	10mm	\	Note1/3	21.30	22.00	0.539	**0.633**	0.276	**0.324**	0.03
5	Body	LTE Band41 PC2	41055	2636.5	1RB-Low	Rear	10mm	\	Note1/3	21.32	22.00	0.701	**0.820**	0.332	**0.388**	-0.15
5	Body	LTE Band41 PC2	40620	2593	1RB-Low	Rear	10mm	\	Note1/3	21.12	22.00	0.543	**0.665**	0.278	**0.340**	0.08
5	Body	LTE Band41 PC2	40185	2549.5	1RB-Low	Rear	10mm	\	Note1/3	20.73	22.00	0.357	**0.478**	0.187	**0.251**	-0.04
5	Body	LTE Band41 PC2	39750	2506	1RB-Low	Rear	10mm	\	Note1/3	21.25	22.00	0.393	**0.467**	0.203	**0.241**	0.11
5	Body	LTE Band41 PC2	41055	2636.5	1RB-Low	Left	10mm	\	Note1/3	21.32	22.00	0.127	**0.149**	0.069	**0.081**	0.06
5	Body	LTE Band41 PC2	41490	2680	1RB-Low	Top	10mm	\	Note1/3	21.30	22.00	0.734	**0.862**	0.356	**0.418**	0.02
5	Body	LTE Band41 PC2	41055	2636.5	1RB-Low	Top	10mm	\	Note1/3	21.32	22.00	0.955	**1.117**	0.428	**0.501**	-0.17
5	Body	LTE Band41 PC2	40620	2593	1RB-Low	Top	10mm	\	Note1/3	21.12	22.00	0.739	**0.905**	0.359	**0.440**	-0.15
5	Body	LTE Band41 PC2	40185	2549.5	1RB-Low	Top	10mm	\	Note1/3	20.73	22.00	0.486	**0.651**	0.241	**0.323**	-0.18
5	Body	LTE Band41 PC2	39750	2506	1RB-Low	Top	10mm	\	Note1/3	21.25	22.00	0.536	**0.637**	0.262	**0.311**	0.16
5	Body	LTE Band41 PC2	41055	2636.5	50RB-Middle	Front	10mm	\	Note1/3	21.39	22.00	0.240	**0.276**	0.124	**0.143**	-0.19
5	Body	LTE Band41 PC2	41055	2636.5	50RB-Middle	Rear	10mm	\	Note1/3	21.39	22.00	0.654	**0.753**	0.307	**0.353**	-0.08
5	Body	LTE Band41 PC2	41055	2636.5	50RB-Middle	Left	10mm	\	Note1/3	21.39	22.00	0.093	**0.107**	0.050	**0.058**	-0.14
5	Body	LTE Band41 PC2	41490	2680	50RB-Middle	Top	10mm	\	Note1/3	21.21	22.00	0.776	**0.931**	0.377	**0.452**	-0.01
5	Body	LTE Band41 PC2	41055	2636.5	50RB-Middle	Top	10mm	FIG A.22	Note1/3	21.39	22.00	1.010	1.162	0.453	**0.521**	0.11
5	Body	LTE Band41 PC2	40620	2593	50RB-Middle	Top	10mm	\	Note1/3	21.08	22.00	0.782	**0.967**	0.379	**0.468**	-0.19
5	Body	LTE Band41 PC2	40185	2549.5	50RB-Middle	Top	10mm	\	Note1/3	20.76	22.00	0.514	**0.684**	0.255	**0.339**	-0.09
5	Body	LTE Band41 PC2	39750	2506	50RB-Middle	Top	10mm	\	Note1/3	21.25	22.00	0.567	**0.674**	0.277	**0.329**	0.04
5	Body	LTE Band41 PC2	41055	2636.5	100RB	Top	10mm	\	Note1/3	21.35	22.00	0.925	**1.074**	0.409	**0.475**	0.06
5	Body	LTE Band41 PC2	41055	2636.5	1RB-Low	Front	10mm	\	Note2/3	19.33	20.00	0.212	**0.247**	0.108	**0.126**	0.11
5	Body	LTE Band41 PC2	41055	2636.5	1RB-Low	Rear	10mm	\	Note2/3	19.33	20.00	0.479	**0.559**	0.217	**0.253**	-0.04
5	Body	LTE Band41 PC2	41055	2636.5	1RB-Low	Left	10mm	\	Note2/3	19.33	20.00	0.150	**0.175**	0.080	**0.093**	0.13
5	Body	LTE Band41 PC2	41055	2636.5	1RB-Low	Top	10mm	\	Note2/3	19.33	20.00	0.522	**0.609**	0.227	**0.265**	0.02
5	Body	LTE Band41 PC2	41055	2636.5	50RB-Middle	Front	10mm	\	Note2/3	19.30	20.00	0.238	**0.280**	0.116	**0.136**	0.14
5	Body	LTE Band41 PC2	41055	2636.5	50RB-Middle	Rear	10mm	\	Note2/3	19.30	20.00	0.552	**0.649**	0.256	**0.301**	0.19
5	Body	LTE Band41 PC2	41055	2636.5	50RB-Middle	Left	10mm	\	Note2/3	19.30	20.00	0.308	**0.362**	0.157	**0.184**	0.05
5	Body	LTE Band41 PC2	41055	2636.5	50RB-Middle	Top	10mm	\	Note2/3	19.30	20.00	0.553	**0.650**	0.241	**0.283**	0.01
5	Body	LTE Band41 PC2	39750	2506	1RB-Middle	Front	15mm	\	Note4	25.82	27.00	0.142	**0.186**	0.072	**0.094**	-0.03
5	Body	LTE Band41 PC2	39750	2506	1RB-Middle	Rear	22mm	\	Note4	25.82	27.00	0.197	**0.259**	0.104	**0.136**	0.03
5	Body	LTE Band41 PC2	39750	2506	1RB-Middle	Rear	22mm	\	Note4	25.82	27.00	0.284	**0.373**	0.147	**0.193**	-0.03
5	Body	LTE Band41 PC2	39750	2506	50RB-Middle	Front	15mm	\	Note4	24.98	26.00	0.107	**0.135**	0.054	**0.068**	0.01
5	Body	LTE Band41 PC2	39750	2506	50RB-Middle	Rear	22mm	\	Note4	24.98	26.00	0.164	**0.207**	0.085	**0.108**	-0.13
5	Body	LTE Band41 PC2	39750	2506	50RB-Middle	Rear	22mm	\	Note4	24.98	26.00	0.229	**0.290**	0.116	**0.147**	0.03
5	Head	LTE Band41 PC3	41055	2636.5	1RB-Low	Cheek Left	0mm	\	\	18.95	19.50	0.491	**0.557**	0.213	**0.242**	-0.13
5	Head	LTE Band41 PC3	41055	2636.5	1RB-Low	Tilt Left	0mm	\	\	18.95	19.50	0.499	**0.566**	0.216	**0.245**	0.07
5	Head	LTE Band41 PC3	41055	2636.5	1RB-Low	Cheek Right	0mm	\	\	18.95	19.50	0.697	**0.791**	0.293	**0.333**	0.04
5	Head	LTE Band41 PC3	41490	2680	1RB-Low	Tilt Right	0mm	\	\	18.94	19.50	0.863	**0.982**	0.353	**0.402**	0.17
5	Head	LTE Band41 PC3	41055	2636.5	1RB-Low	Tilt Right	0mm	FIG A.23	\	18.95	19.50	0.938	1.065	0.377	**0.428**	0.07
5	Head	LTE Band41 PC3	40620	2593	1RB-Low	Tilt Right	0mm	\	\	18.59	19.50	0.775	**0.956**	0.313	**0.386**	-0.08
5	Head	LTE Band41 PC3	40185	2549.5	1RB-Low	Tilt Right	0mm	\	\	18.05	19.50	0.559	**0.781**	0.223	**0.311**	0.15
5	Head	LTE Band41 PC3	39750	2506	1RB-Low	Tilt Right	0mm	\	\	18.90	19.50	0.716	**0.822**	0.285	**0.327**	-0.07
5	Head	LTE Band41 PC3	41055	2636.5	50RB-Middle	Cheek Left	0mm	\	\	19.00	19.50	0.437	**0.490**	0.191	**0.214**	0.01
5	Head	LTE Band41 PC3	41055	2636.5	50RB-Middle	Tilt Left	0mm	\	\	19.00	19.50	0.454	**0.509**	0.195	**0.219**	-0.14
5	Head	LTE Band41 PC3	41055	2636.5	50RB-Middle	Cheek Right	0mm	\	\	19.00	19.50	0.659	**0.739**	0.276	**0.310**	-0.10
5	Head	LTE Band41 PC3	41490	2680	50RB-Middle	Tilt Right	0mm	\	\	18.90	19.50	0.814	**0.935**	0.335	**0.385**	0.05
5	Head	LTE Band41 PC3	41055	2636.5	50RB-Middle	Tilt Right	0mm	\	\	19.00	19.50	0.902	**1.012**	0.365	**0.410**	0.12
5	Head	LTE Band41 PC3	40620	2593	50RB-Middle	Tilt Right	0mm	\	\	18.58	19.50	0.840	**1.038**	0.339	**0.419**	-0.11
5	Head	LTE Band41 PC3	40185	2549.5	50RB-Middle	Tilt Right	0mm	\	\	18.44	19.50	0.580	**0.740**	0.232	**0.296**	-0.08
5	Head	LTE Band41 PC3	39750	2506	50RB-Middle	Tilt Right	0mm	\	\	18.70	19.50	0.617	**0.742**	0.243	**0.292**	0.01
5	Head	LTE Band41 PC3	41055	2636.5	100RB	Tilt Right	0mm	\	\	18.90	19.50	0.849	**0.975**	0.289	**0.332**	0.13
5	Body	LTE Band41 PC3	41055	2636.5	1RB-Low	Front	10mm	\	Note1/3	18.95	19.50	0.238	**0.270**	0.126	**0.143**	0.05
5	Body	LTE Band41 PC3	41055	2636.5	1RB-Low	Rear	10mm	\	Note1/3	18.95	19.50	0.534	**0.606**	0.261	**0.296**	0.08
5	Body	LTE Band41 PC3	41055	2636.5	1RB-Low	Left	10mm	\	Note1/3	18.95	19.50	0.173	**0.196**	0.101	**0.115**	-0.01
5	Body	LTE Band41 PC3	41055	2636.5	1RB-Low	Top	10mm	\	Note1/3	18.95	19.50	0.693	**0.787**	0.323	**0.367**	-0.14
5	Body	LTE Band41 PC3	41055	2636.5	50RB-Middle	Front	10mm	\	Note1/3	19.00	19.50	0.230	**0.258**	0.120	**0.135**	0.02
5	Body	LTE Band41 PC3	41055	2636.5	50RB-Middle	Rear	10mm	\	Note1/3	19.00	19.50	0.541	**0.607**	0.269	**0.302**	-0.17
5	Body	LTE Band41 PC3	41055	2636.5	50RB-Middle	Left	10mm	\	Note1/3	19.00	19.50	0.174	**0.195**	0.101	**0.113**	-0.07
5	Body	LTE Band41 PC3	41490	2680	50RB-Middle	Top	10mm	\	Note1/3	18.90	19.50	0.808	**0.928**	0.366	**0.420**	0.13
5	Body	LTE Band41 PC3	41055	2636.5	50RB-Middle	Top	10mm	FIG A.24	Note1/3	19.00	19.50	0.895	1.004	0.399	**0.448**	0.10
5	Body	LTE Band41 PC3	40620	2593	50RB-Middle	Top	10mm	\	Note1/3	18.58	19.50	0.833	**1.030**	0.371	**0.459**	-0.06
5	Body	LTE Band41 PC3	40185	2549.5	50RB-Middle	Top	10mm	\	Note1/3	18.44	19.50	0.575	**0.734**	0.254	**0.324**	0.08
5	Body	LTE Band41 PC3	39750	2506	50RB-Middle	Top	10mm	\	Note1/3	18.70	19.50	0.612	**0.736**	0.266	**0.320**	-0.08
5	Body	LTE Band41 PC3	41055	2636.5	100RB	Top	10mm	\	Note1/3	18.90	19.50	0.842	**0.967**	0.316	**0.363**	-0.10
5	Body	LTE Band41 PC3	41055	2636.5	1RB-Low	Front	10mm	\	Note2/3	16.87	17.50	0.126	**0.146**	0.064	**0.074**	0.06
5	Body	LTE Band41 PC3	41055	2636.5	1RB-Low	Rear	10mm	\	Note2/3	16.87	17.50	0.272	**0.314**	0.124	**0.143**	-0.06
5	Body	LTE Band41 PC3	41055	2636.5	1RB-Low	Left	10mm	\	Note2/3	16.87	17.50	0.107	**0.124**	0.057	**0.066**	-0.16
5	Body	LTE Band41 PC3	41055	2636.5	1RB-Low	Top	10mm	\	Note2/3	16.87	17.50	0.448	**0.518**	0.194	**0.224**	0.18
5	Body	LTE Band41 PC3	41055	2636.5	50RB-High	Front	10mm	\	Note2/3	16.86	17.50	0.131	**0.152**	0.064	**0.074**	0.03
5	Body	LTE Band41 PC3	41055	2636.5	50RB-High	Rear	10mm	\	Note2/3	16.86	17.50	0.285	**0.330**	0.129	**0.149**	0.14
5	Body	LTE Band41 PC3	41055	2636.5	50RB-High	Left	10mm	\	Note2/3	16.86	17.50	0.040	**0.046**	0.021	**0.024**	-0.18
5	Body	LTE Band41 PC3	41055	2636.5	50RB-High	Top	10mm	\	Note2/3	16.86	17.50	0.488	0.565	0.212	**0.246**	0.10
5	Body	LTE Band41 PC3	41055	2636.5	1RB-Low	Front	15mm	\	Note4	23.47	24.50	0.363	**0.460**	0.185	**0.235**	-0.04
5	Body	LTE Band41 PC3	41055	2636.5	1RB-Low	Rear	22mm	\	Note4	23.47	24.50	0.401	**0.508**	0.206	**0.261**	0.12
5	Body	LTE Band41 PC3	41055	2636.5	1RB-Low	Rear	22mm	\	Note4	23.47	24.50	0.612	**0.776**	0.318	**0.403**	-0.11
5	Body	LTE Band41 PC3	41055	2636.5	50RB-High	Front	15mm	\	Note4	22.49	23.50	0.222	**0.280**	0.117	**0.148**	0.05
5	Body	LTE Band41 PC3	41055	2636.5	50RB-High	Rear	22mm	\	Note4	22.49	23.50	0.317	**0.400**	0.165	**0.208**	-0.16
5	Body	LTE Band41 PC3	41055	2636.5	50RB-High	Rear	22mm	\	Note4	22.49	23.50	0.542	**0.684**	0.281	**0.355**	0.13

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	Note	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
1	Head	LTE Band66	132322	1745	1RB-Low	Cheek Left	0mm	\	\	23.05	24.50	0.154	0.215	0.100	**0.140**	0.09
1	Head	LTE Band66	132322	1745	1RB-Low	Tilt Left	0mm	\	\	23.05	24.50	0.145	**0.202**	0.095	**0.133**	-0.19
1	Head	LTE Band66	132322	1745	1RB-Low	Cheek Right	0mm	\	\	23.05	24.50	0.121	**0.169**	0.081	**0.113**	0.03
1	Head	LTE Band66	132322	1745	1RB-Low	Tilt Right	0mm	\	\	23.05	24.50	0.096	**0.134**	0.065	**0.091**	0.01
1	Head	LTE Band66	132072	1720	50RB-Middle	Cheek Left	0mm	\	\	22.14	23.50	0.132	**0.181**	0.087	**0.119**	-0.18
1	Head	LTE Band66	132072	1720	50RB-Middle	Tilt Left	0mm	\	\	22.14	23.50	0.078	**0.107**	0.048	**0.066**	0.01
1	Head	LTE Band66	132072	1720	50RB-Middle	Cheek Right	0mm	\	\	22.14	23.50	0.091	**0.124**	0.060	**0.082**	0.13
1	Head	LTE Band66	132072	1720	50RB-Middle	Tilt Right	0mm	\	\	22.14	23.50	0.080	**0.109**	0.053	**0.072**	-0.04
1	Head	LTE Band66	132047	1717.5	1RB-High	Cheek Left	0mm	\	ULCA_66B	22.93	24.50	0.132	**0.189**	0.092	**0.132**	0.16
1	Head	LTE Band66	132072	1720	1RB-High	Cheek Left	0mm	\	ULCA_66C	22.93	24.50	0.126	**0.181**	0.089	**0.128**	-0.09
1	Body	LTE Band66	132322	1745	1RB-Low	Front	10mm	\	Note1	21.95	22.50	0.316	**0.359**	0.204	**0.232**	0.18
1	Body	LTE Band66	132572	1770	1RB-Low	Rear	10mm	\	Note1	21.79	22.50	0.690	**0.813**	0.408	**0.480**	-0.06
1	Body	LTE Band66	132322	1745	1RB-Low	Rear	10mm	FIG A.26	Note1	21.95	22.50	0.717	0.814	0.426	**0.484**	0.05
1	Body	LTE Band66	132072	1720	1RB-Low	Rear	10mm		Note1	21.94	22.50	0.683	**0.777**	0.401	**0.456**	-0.19
1	Body	LTE Band66	132322	1745	1RB-Low	Right	10mm	\	Note1	21.95	22.50	0.160	**0.182**	0.092	**0.104**	0.05
1	Body	LTE Band66	132322	1745	1RB-Low	Bottom	10mm	\	Note1	21.95	22.50	0.547	**0.621**	0.328	**0.372**	0.05
1	Body	LTE Band66	132322	1745	50RB-Middle	Front	10mm	\	Note1	22.03	22.50	0.248	**0.276**	0.160	**0.178**	-0.02
1	Body	LTE Band66	132322	1745	50RB-Middle	Rear	10mm	\	Note1	22.03	22.50	0.698	**0.778**	0.411	**0.458**	-0.04
1	Body	LTE Band66	132322	1745	50RB-Middle	Right	10mm	\	Note1	22.03	22.50	0.244	**0.272**	0.134	**0.149**	-0.13
1	Body	LTE Band66	132322	1745	50RB-Middle	Bottom	10mm	\	Note1	22.03	22.50	0.527	**0.587**	0.284	**0.316**	-0.08
1	Body	LTE Band66	132322	1745	100RB	Rear	10mm	\	Note1	22.01	22.50	0.669	**0.749**	0.392	**0.439**	0.15
1	Body	LTE Band66	132047	1717.5	1RB-High	Rear	10mm	\	ULCA_66B	21.69	22.50	0.641	**0.772**	0.362	**0.436**	0.16
1	Body	LTE Band66	132047	1717.5	1RB-High	Rear	10mm	\	ULCA_66C	21.58	22.50	0.654	**0.808**	0.369	**0.456**	-0.19
1	Body	LTE Band66	132322	1745	1RB-Low	Front	10mm	\	Note2	18.70	19.50	0.147	**0.177**	0.097	**0.117**	-0.12
1	Body	LTE Band66	132322	1745	1RB-Low	Rear	10mm	\	Note2	18.70	19.50	0.362	**0.435**	0.217	**0.261**	-0.09
1	Body	LTE Band66	132322	1745	1RB-Low	Right	10mm	\	Note2	18.70	19.50	0.079	**0.095**	0.046	**0.055**	0.05
1	Body	LTE Band66	132322	1745	1RB-Low	Bottom	10mm	\	Note2	18.70	19.50	0.391	**0.470**	0.233	**0.280**	0.01
1	Body	LTE Band66	132322	1745	50RB-Middle	Front	10mm	\	Note2	18.69	19.50	0.165	**0.199**	0.107	**0.129**	0.19
1	Body	LTE Band66	132322	1745	50RB-Middle	Rear	10mm	\	Note2	18.69	19.50	0.348	**0.419**	0.211	**0.254**	0.02
1	Body	LTE Band66	132322	1745	50RB-Middle	Right	10mm	\	Note2	18.69	19.50	0.084	**0.101**	0.049	**0.059**	0.14
1	Body	LTE Band66	132322	1745	50RB-Middle	Bottom	10mm	\	Note2	18.69	19.50	0.419	0.505	0.245	**0.295**	-0.10
5	Head	LTE Band66	132322	1745	1RB-High	Cheek Left	0mm	\	Note2	21.31	22.00	0.185	**0.217**	0.096	**0.113**	-0.04
5	Head	LTE Band66	132322	1745	1RB-High	Tilt Left	0mm	\	Note2	21.31	22.00	0.315	**0.369**	0.151	**0.177**	-0.11
5	Head	LTE Band66	132322	1745	1RB-High	Cheek Right	0mm	\	Note2	21.31	22.00	0.336	**0.394**	0.156	**0.183**	-0.07
5	Head	LTE Band66	132322	1745	1RB-High	Tilt Right	0mm	\	Note2	21.31	22.00	0.425	**0.498**	0.198	**0.232**	-0.12
5	Head	LTE Band66	132322	1745	50RB-Middle	Cheek Left	0mm	\	Note2	21.19	22.00	0.245	**0.295**	0.121	**0.146**	0.19
5	Head	LTE Band66	132322	1745	50RB-Middle	Tilt Left	0mm	\	Note2	21.19	22.00	0.339	**0.409**	0.161	**0.194**	-0.01
5	Head	LTE Band66	132322	1745	50RB-Middle	Cheek Right	0mm	\	Note2	21.19	22.00	0.346	**0.417**	0.162	**0.195**	-0.03
5	Head	LTE Band66	132322	1745	50RB-Middle	Tilt Right	0mm	FIG A.25	Note2	21.19	22.00	0.430	0.518	0.200	**0.241**	-0.09
5	Body	LTE Band66	132322	1745	1RB-High	Front	10mm	\	Note2	24.26	24.50	0.201	**0.212**	0.115	**0.122**	0.05
5	Body	LTE Band66	132322	1745	1RB-High	Rear	10mm	\	Note2	24.26	24.50	0.332	**0.351**	0.189	**0.200**	-0.17
5	Body	LTE Band66	132322	1745	1RB-High	Left	10mm	\	Note2	24.26	24.50	0.083	**0.088**	0.051	**0.054**	-0.13
5	Body	LTE Band66	132322	1745	1RB-High	Top	10mm	\	Note2	24.26	24.50	0.206	**0.218**	0.112	**0.118**	0.07
5	Body	LTE Band66	132322	1745	50RB-Low	Front	10mm	\	Note2	22.73	23.50	0.169	**0.202**	0.096	**0.115**	-0.09
5	Body	LTE Band66	132322	1745	50RB-Low	Rear	10mm	\	Note2	22.73	23.50	0.277	**0.331**	0.159	**0.190**	-0.06
5	Body	LTE Band66	132322	1745	50RB-Low	Left	10mm	\	Note2	22.73	23.50	0.067	**0.080**	0.042	**0.050**	-0.14
5	Body	LTE Band66	132322	1745	50RB-Low	Top	10mm	\	Note2	22.73	23.50	0.179	**0.214**	0.097	**0.116**	0.02
2	Head	LTE Band71	133372	688	1RB-Low	Cheek Left	0mm	FIG A.27	\	23.27	24.50	0.147	0.195	0.117	**0.155**	0.01
2	Head	LTE Band71	133372	688	1RB-Low	Tilt Left	0mm	\	\	23.27	24.50	0.114	**0.151**	0.096	**0.127**	-0.05
2	Head	LTE Band71	133372	688	1RB-Low	Cheek Right	0mm	\	\	23.27	24.50	0.113	**0.150**	0.089	**0.118**	-0.03
2	Head	LTE Band71	133372	688	1RB-Low	Tilt Right	0mm	\	\	23.27	24.50	0.100	**0.133**	0.082	**0.109**	-0.13
2	Head	LTE Band71	133322	683	50RB-Middle	Cheek Left	0mm	\	\	22.32	23.50	0.120	**0.157**	0.097	**0.127**	-0.13
2	Head	LTE Band71	133322	683	50RB-Middle	Tilt Left	0mm	\	\	22.32	23.50	0.066	**0.087**	0.055	**0.072**	-0.05
2	Head	LTE Band71	133322	683	50RB-Middle	Cheek Right	0mm	\	\	22.32	23.50	0.059	**0.077**	0.043	**0.056**	0.07
2	Head	LTE Band71	133322	683	50RB-Middle	Tilt Right	0mm	\	\	22.32	23.50	0.075	**0.098**	0.055	**0.072**	-0.13
2	Body	LTE Band71	133372	688	1RB-Low	Front	10mm	\	\	23.27	24.50	0.182	**0.242**	0.124	**0.165**	0.08
2	Body	LTE Band71	133372	688	1RB-Low	Rear	10mm	FIG A.28	\	23.27	24.50	0.274	0.364	0.183	**0.243**	0.01
2	Body	LTE Band71	133372	688	1RB-Low	Left	10mm	\	\	23.27	24.50	0.160	**0.212**	0.101	**0.134**	-0.06
2	Body	LTE Band71	133372	688	1RB-Low	Bottom	10mm	\	\	23.27	24.50	0.127	**0.169**	0.055	**0.073**	0.01
2	Body	LTE Band71	133322	683	50RB-Middle	Front	10mm	\	\	22.32	23.50	0.142	**0.186**	0.098	**0.129**	0.06
2	Body	LTE Band71	133322	683	50RB-Middle	Rear	10mm	\	\	22.32	23.50	0.221	**0.290**	0.149	**0.196**	0.09
2	Body	LTE Band71	133322	683	50RB-Middle	Left	10mm	\	\	22.32	23.50	0.196	**0.257**	0.128	**0.168**	0.05
2	Body	LTE Band71	133322	683	50RB-Middle	Bottom	10mm	\	\	22.32	23.50	0.080	**0.105**	0.039	**0.051**	-0.16

14.2 SAR results for 5G NR

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test setup	Distance	Figure No./Note	Note	Duty Cycle	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
1	Head	N2	381500	1907.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	23.09	24.50	0.114	**0.158**	0.074	**0.102**	-0.12
1	Head	N2	376000	1880	DFT-s-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	23.10	24.50	0.174	**0.240**	0.110	**0.152**	-0.1
1	Head	N2	370500	1852.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	22.99	24.50	0.127	**0.180**	0.084	**0.119**	-0.06
1	Head	N2	376000	1880	DFT-s-OFDM QPSK	Tilt Left	0mm	\	\	100.00%	23.10	24.50	0.107	**0.148**	0.066	**0.091**	-0.15
1	Head	N2	376000	1880	DFT-s-OFDM QPSK	Cheek Right	0mm	\	\	100.00%	23.10	24.50	0.148	**0.204**	0.098	**0.135**	0.13
1	Head	N2	376000	1880	DFT-s-OFDM QPSK	Tilt Right	0mm	\	\	100.00%	23.10	24.50	0.130	**0.179**	0.077	**0.106**	-0.12
1	Head	N2	376000	1880	CP-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	21.62	23.00	0.088	**0.121**	0.058	**0.080**	0.05
1	Body	N2	376000	1880	DFT-s-OFDM QPSK	Front	10mm	\	\	100.00%	20.85	22.00	0.348	**0.454**	0.212	**0.276**	-0.04
1	Body	N2	381500	1907.5	DFT-s-OFDM QPSK	Rear	10mm	\	\	100.00%	20.84	22.00	0.550	**0.718**	0.326	**0.426**	-0.17
1	Body	N2	376000	1880	DFT-s-OFDM QPSK	Rear	10mm	\	\	100.00%	20.85	22.00	0.593	**0.773**	0.347	**0.452**	0.08
1	Body	N2	370500	1852.5	DFT-s-OFDM QPSK	Rear	10mm	FIG A.30	\	100.00%	20.75	22.00	0.646	**0.861**	0.387	**0.516**	-0.04
1	Body	N2	376000	1880	DFT-s-OFDM QPSK	Right	10mm	\	\	100.00%	20.85	22.00	0.245	**0.319**	0.143	**0.186**	-0.09
1	Body	N2	376000	1880	DFT-s-OFDM QPSK	Bottom	10mm	\	\	100.00%	20.85	22.00	0.509	**0.663**	0.293	**0.382**	0.07
1	Body	N2	376000	1880	CP-OFDM QPSK	Rear	10mm	\	\	100.00%	20.90	22.00	0.577	**0.743**	0.330	**0.425**	0.07
5	Head	N2	376000	1880	DFT-s-OFDM QPSK	Cheek Left	0mm	\	Note2	100.00%	18.55	19.00	0.206	**0.228**	0.097	**0.108**	-0.1
5	Head	N2	376000	1880	DFT-s-OFDM QPSK	Tilt Left	0mm	\	Note2	100.00%	18.55	19.00	0.340	**0.377**	0.153	**0.170**	-0.19
5	Head	N2	376000	1880	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	100.00%	18.55	19.00	0.410	**0.455**	0.190	**0.211**	-0.13
5	Head	N2	380000	1900	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note2	100.00%	18.54	19.00	0.534	**0.594**	0.244	**0.271**	-0.01
5	Head	N2	376000	1880	DFT-s-OFDM QPSK	Tilt Right	0mm	FIG A.29	Note2	100.00%	18.55	19.00	0.548	**0.608**	0.246	**0.273**	0.12
5	Head	N2	372000	1860	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note2	100.00%	18.51	19.00	0.541	**0.606**	0.242	**0.271**	0.06
5	Head	N2	376000	1880	CP-OFDM QPSK	Tilt Right	0mm	\	Note2	100.00%	18.53	19.00	0.526	**0.586**	0.239	**0.266**	-0.09
5	Body	N2	376000	1880	DFT-s-OFDM QPSK	Front	10mm	\	Note2/3	100.00%	21.05	21.50	0.186	**0.206**	0.102	**0.113**	-0.12
5	Body	N2	376000	1880	DFT-s-OFDM QPSK	Rear	10mm	\	Note2/3	100.00%	21.05	21.50	0.427	**0.474**	0.219	**0.243**	0.04
5	Body	N2	376000	1880	DFT-s-OFDM QPSK	Left	10mm	\	Note2/3	100.00%	21.05	21.50	0.103	**0.114**	0.060	**0.067**	-0.14
5	Body	N2	380000	1900	DFT-s-OFDM QPSK	Top	10mm	\	Note2/3	100.00%	21.03	21.50	0.321	**0.358**	0.157	**0.175**	-0.07
5	Body	N2	376000	1880	DFT-s-OFDM QPSK	Top	10mm	\	Note2/3	100.00%	21.05	21.50	0.483	**0.536**	0.246	**0.273**	0.1
5	Body	N2	372000	1860	DFT-s-OFDM QPSK	Top	10mm	\	Note2/3	100.00%	21.01	21.50	0.472	**0.528**	0.235	**0.263**	0.19
5	Body	N2	376000	1880	CP-OFDM QPSK	Top	10mm	\	Note2/3	100.00%	21.02	21.50	0.428	**0.478**	0.216	**0.241**	0.06
5	Body	N2	376000	1880	DFT-s-OFDM QPSK	Front	15mm	\	Note2/4	100.00%	23.55	24.50	0.173	**0.215**	0.101	**0.126**	0.15
5	Body	N2	376000	1880	DFT-s-OFDM QPSK	Rear	22mm	\	Note2/4	100.00%	23.55	24.50	0.127	**0.158**	0.076	**0.095**	0.06
5	Body	N2	376000	1880	DFT-s-OFDM QPSK	Top	22mm	\	Note2/4	100.00%	23.55	24.50	0.180	**0.224**	0.104	**0.129**	-0.8
2	Head	N5	167300	836.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	22.95	24.50	0.138	**0.197**	0.109	**0.156**	-0.16
2	Head	N5	167300	836.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	\	100.00%	22.95	24.50	0.108	**0.154**	0.083	**0.119**	0.02
2	Head	N5	169300	846.5	DFT-s-OFDM QPSK	Cheek Right	0mm		\	100.00%	22.83	24.50	0.145	**0.213**	0.110	**0.162**	-0.16
2	Head	N5	167300	836.5	DFT-s-OFDM QPSK	Cheek Right	0mm	FIG A.31	\	100.00%	22.95	24.50	0.159	**0.227**	0.121	**0.173**	0.09
2	Head	N5	165300	826.5	DFT-s-OFDM QPSK	Cheek Right	0mm		\	100.00%	22.86	24.50	0.152	**0.222**	0.114	**0.166**	0.13
2	Head	N5	167300	836.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	\	100.00%	22.95	24.50	0.082	**0.117**	0.064	**0.091**	-0.09
2	Head	N5	167300	836.5	CP-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	21.52	23.00	0.076	**0.107**	0.049	**0.069**	0.15
2	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Front	10mm	\	\	100.00%	22.95	24.50	0.095	**0.136**	0.062	**0.089**	0.1
2	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Rear	10mm	\	\	100.00%	22.95	24.50	0.149	**0.213**	0.096	**0.137**	0.06
2	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Left	10mm	\	\	100.00%	22.95	24.50	0.089	**0.127**	0.051	**0.073**	0.06
2	Body	N5	165300	826.5	DFT-s-OFDM QPSK	Bottom	10mm	\	\	100.00%	22.83	24.50	0.113	**0.166**	0.074	**0.109**	-0.12
2	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Bottom	10mm	\	\	100.00%	22.95	24.50	0.154	**0.220**	0.089	**0.127**	0.05
2	Body	N5	169300	846.5	DFT-s-OFDM QPSK	Bottom	10mm	FIG A.32	\	100.00%	22.86	24.50	0.208	**0.303**	0.121	**0.177**	-0.14
2	Body	N5	167300	836.5	CP-OFDM QPSK	Bottom	10mm	\	\	100.00%	21.52	23.00	0.119	**0.167**	0.076	**0.107**	-0.18
5	Head	N7	507000	2535	DFT-s-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	16.81	17.50	0.391	**0.458**	0.163	**0.191**	-0.07
5	Head	N7	507000	2535	DFT-s-OFDM QPSK	Tilt Left	0mm	\	\	100.00%	16.81	17.50	0.611	**0.716**	0.222	**0.260**	-0.09
5	Head	N7	507000	2535	DFT-s-OFDM QPSK	Cheek Right	0mm	\	\	100.00%	16.81	17.50	0.596	**0.699**	0.238	**0.279**	-0.11
5	Head	N7	512000	2560	DFT-s-OFDM QPSK	Tilt Right	0mm	FIG A.33	\	100.00%	16.75	17.50	0.936	**1.112**	0.366	**0.435**	0.17
5	Head	N7	507000	2535	DFT-s-OFDM QPSK	Tilt Right	0mm	\	\	100.00%	16.81	17.50	0.911	**1.068**	0.351	**0.411**	0.18
5	Head	N7	502000	2510	DFT-s-OFDM QPSK	Tilt Right	0mm		\	100.00%	16.78	17.50	0.913	**1.078**	0.352	**0.415**	0.17
5	Head	N7	507000	2535	CP-OFDM QPSK	Tilt Right	0mm	\	\	100.00%	16.80	17.50	0.886	**1.041**	0.303	**0.356**	0.09
5	Body	N7	507000	2535	DFT-s-OFDM QPSK	Front	10mm	\	Note3	100.00%	18.15	19.00	0.161	**0.196**	0.085	**0.103**	0.02
5	Body	N7	507000	2535	DFT-s-OFDM QPSK	Rear	10mm	\	Note3	100.00%	18.15	19.00	0.372	**0.452**	0.186	**0.226**	0.07
5	Body	N7	507000	2535	DFT-s-OFDM QPSK	Left	10mm	\	Note3	100.00%	18.15	19.00	0.084	**0.102**	0.049	**0.060**	0.09
5	Body	N7	512000	2560	DFT-s-OFDM QPSK	Top	10mm	\	Note3	100.00%	18.09	19.00	0.725	**0.894**	0.355	**0.438**	0.17
5	Body	N7	507000	2535	DFT-s-OFDM QPSK	Top	10mm	\	Note3	100.00%	18.15	19.00	0.789	**0.960**	0.360	**0.438**	0.08
5	Body	N7	502000	2510	DFT-s-OFDM QPSK	Top	10mm	FIG A.34	Note3	100.00%	18.11	19.00	0.841	**1.032**	0.363	**0.446**	0.13
5	Body	N7	507000	2535	CP-OFDM QPSK	Top	10mm	\	Note3	100.00%	18.12	19.00	0.731	**0.895**	0.350	**0.429**	-0.16
5	Body	N7	507000	2535	DFT-s-OFDM QPSK	Front	15mm	\	Note4	100.00%	23.49	24.50	0.377	**0.476**	0.206	**0.260**	0.14
5	Body	N7	507000	2535	DFT-s-OFDM QPSK	Rear	22mm	\	Note4	100.00%	23.49	24.50	0.507	**0.640**	0.294	**0.371**	0.06
5	Body	N7	507000	2535	DFT-s-OFDM QPSK	Top	22mm	\	Note4	100.00%	23.49	24.50	0.554	**0.699**	0.291	**0.367**	0.19
1	Head	N25	382500	1912.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	23.05	24.50	0.162	**0.226**	0.103	**0.144**	0.15
1	Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	23.10	24.50	0.175	**0.242**	0.112	**0.155**	0.1
1	Head	N25	370500	1852.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	23.07	24.50	0.171	**0.238**	0.107	**0.149**	-0.13
1	Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	\	100.00%	23.10	24.50	0.106	**0.146**	0.068	**0.094**	0.11
1	Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	\	100.00%	23.10	24.50	0.140	**0.193**	0.093	**0.128**	-0.03
1	Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	\	100.00%	23.10	24.50	0.118	**0.163**	0.073	**0.101**	0.12
1	Head	N25	376500	1882.5	CP-OFDM QPSK	Cheek Right	0mm	\	\	100.00%	21.53	23.00	0.077	**0.108**	0.050	**0.070**	-0.07
1	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Front	10mm	\	\	100.00%	20.96	22.00	0.210	**0.267**	0.130	**0.165**	-0.1
1	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Rear	10mm	\	\	100.00%	20.96	22.00	0.632	**0.803**	0.379	**0.482**	0.09
1	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Right	10mm	\	\	100.00%	20.96	22.00	0.205	**0.260**	0.119	**0.151**	0.08
1	Body	N25	382500	1912.5	DFT-s-OFDM QPSK	Bottom	10mm	\	\	100.00%	20.88	22.00	0.498	**0.645**	0.293	**0.379**	-0.12
1	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Bottom	10mm	FIG A.36	\	100.00%	20.96	22.00	0.674	**0.856**	0.391	**0.497**	0.09
1	Body	N25	370500	1852.5	DFT-s-OFDM QPSK	Bottom	10mm	\	\	100.00%	20.90	22.00	0.557	**0.718**	0.336	**0.433**	-0.04
1	Body	N25	376500	1882.5	CP-OFDM QPSK	Bottom	10mm	\	\	100.00%	20.94	22.00	0.539	**0.688**	0.321	**0.410**	0.1
5	Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	Note2	100.00%	15.05	16.00	0.180	**0.224**	0.087	**0.108**	0.14
5	Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	Note2	100.00%	15.05	16.00	0.352	**0.438**	0.157	**0.195**	0.14
5	Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	100.00%	15.05	16.00	0.227	**0.283**	0.119	**0.148**	-0.07
5	Head	N25	382500	1912.5	DFT-s-OFDM QPSK	Tilt Right	0mm		Note2	100.00%	14.98	16.00	0.404	**0.511**	0.183	**0.231**	-0.18
5	Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Tilt Right	0mm	FIG A.35	Note2	100.00%	15.05	16.00	0.442	**0.550**	0.200	**0.249**	-0.04
5	Head	N25	370500	1852.5	DFT-s-OFDM QPSK	Tilt Right	0mm		Note2	100.00%	14.98	16.00	0.424	**0.536**	0.192	**0.243**	0.03
5	Head	N25	376500	1882.5	CP-OFDM QPSK	Tilt Right	0mm	\	Note2	100.00%	15.03	16.00	0.425	**0.531**	0.193	**0.241**	0.03
5	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Front	10mm	\	Note2/3	100.00%	21.15	22.00	0.176	**0.214**	0.108	**0.131**	-0.15
5	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Rear	10mm	\	Note2/3	100.00%	21.15	22.00	0.394	**0.479**	0.234	**0.285**	-0.17
5	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Left	10mm	\	Note2/3	100.00%	21.15	22.00	0.124	**0.151**	0.079	**0.096**	0.1
5	Body	N25	382500	1912.5	DFT-s-OFDM QPSK	Top	10mm		Note2/3	100.00%	21.08	22.00	0.421	**0.520**	0.232	**0.287**	-0.19
5	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Top	10mm	\	Note2/3	100.00%	21.15	22.00	0.528	**0.642**	0.300	**0.365**	0.02
5	Body	N25	370500	1852.5	DFT-s-OFDM QPSK	Top	10mm		Note2/3	100.00%	21.05	22.00	0.476	**0.592**	0.267	**0.332**	0.08
5	Body	N25	376500	1882.5	CP-OFDM QPSK	Top	10mm	\	Note2/3	100.00%	21.12	23.00	0.484	**0.746**	0.271	**0.418**	-0.02
5	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Front	15mm	\	Note2/4	100.00%	23.17	24.50	0.159	**0.216**	0.092	**0.125**	-0.06
5	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Rear	22mm	\	Note2/4	100.00%	23.17	24.50	0.179	**0.243**	0.105	**0.143**	0.14
5	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Top	22mm	\	Note2/4	100.00%	23.17	24.50	0.247	**0.336**	0.145	**0.197**	0.05

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test setup	Distance	Figure No./Note	Note	Duty Cycle	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
5	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Cheek Left	0mm	\	Note1	50.00%	19.78	21.00	0.358	**0.474**	0.151	**0.200**	-0.07
5	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Tilt Left	0mm	\	Note1	50.00%	19.78	21.00	0.505	**0.669**	0.213	**0.282**	0.18
5	Head	N41	528000	2640	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50.00%	19.67	21.00	0.782	**1.062**	0.325	**0.441**	0.06
5	Head	N41	523299	2616.495	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50.00%	19.68	21.00	0.756	**1.025**	0.317	**0.430**	0.17
5	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50.00%	19.78	21.00	0.647	**0.857**	0.277	**0.367**	0.04
5	Head	N41	513900	2569.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50.00%	19.64	21.00	0.612	**0.837**	0.253	**0.346**	0.11
5	Head	N41	509202	2546.01	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50.00%	19.68	21.00	0.433	**0.587**	0.188	**0.255**	-0.09
5	Head	N41	528000	2640	DFT-s-OFDM QPSK	Tilt Right	0mm	FIG A.37	Note1	50.00%	19.67	21.00	0.922	**1.252**	0.367	**0.499**	0.14
5	Head	N41	523299	2616.495	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note1	50.00%	19.68	21.00	0.891	**1.207**	0.358	**0.485**	0.02
5	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note1	50.00%	19.78	21.00	0.810	**1.073**	0.329	**0.436**	-0.03
5	Head	N41	513900	2569.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note1	50.00%	19.64	21.00	0.763	**1.044**	0.313	**0.428**	-0.13
5	Head	N41	509202	2546.01	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note1	50.00%	19.68	21.00	0.511	**0.693**	0.212	**0.287**	-0.06
5	Head	N41	518598	2592.99	CP-OFDM QPSK	Tilt Right	0mm	\	Note1	50.00%	19.74	21.00	0.801	**1.071**	0.321	**0.429**	-0.09
5	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Cheek Left	0mm	\	Note2	50.00%	17.05	18.00	0.223	**0.278**	0.093	**0.116**	0.18
5	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Tilt Left	0mm	\	Note2	50.00%	17.05	18.00	0.314	**0.391**	0.131	**0.163**	0.15
5	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50.00%	17.05	18.00	0.403	**0.502**	0.170	**0.212**	-0.06
5	Head	N41	528000	2640	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note2	50.00%	16.95	18.00	0.574	**0.731**	0.225	**0.287**	0.18
5	Head	N41	523299	2616.495	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note2	50.00%	16.96	18.00	0.555	**0.705**	0.220	**0.280**	0.13
5	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note2	50.00%	17.05	18.00	0.504	**0.627**	0.201	**0.250**	0.08
5	Head	N41	513900	2569.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note2	50.00%	16.92	18.00	0.475	**0.609**	0.192	**0.246**	0.15
5	Head	N41	509202	2546.01	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note2	50.00%	16.96	18.00	0.318	**0.404**	0.130	**0.165**	0.14
5	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Front	10mm	\	Note1/3	50.00%	19.78	21.00	0.162	**0.215**	0.077	**0.102**	0.13
5	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Rear	10mm	\	Note1/3	50.00%	19.78	21.00	0.384	**0.509**	0.169	**0.224**	0.04
5	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Left	10mm	\	Note1/3	50.00%	19.78	21.00	0.123	**0.163**	0.062	**0.082**	0.14
5	Body	N41	528000	2640	DFT-s-OFDM QPSK	Top	10mm	FIG A.38	Note1/3	50.00%	19.67	21.00	0.817	**1.110**	0.348	**0.473**	0.04
5	Body	N41	523299	2616.495	DFT-s-OFDM QPSK	Top	10mm	\	Note1/3	50.00%	19.68	21.00	0.652	**0.884**	0.281	**0.381**	0.01
5	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Top	10mm	\	Note1/3	50.00%	19.78	21.00	0.684	**0.906**	0.301	**0.399**	0.03
5	Body	N41	513900	2569.5	DFT-s-OFDM QPSK	Top	10mm	\	Note1/3	50.00%	19.64	21.00	0.537	**0.734**	0.233	**0.319**	0.13
5	Body	N41	509202	2546.01	DFT-s-OFDM QPSK	Top	10mm	\	Note1/3	50.00%	19.68	21.00	0.496	**0.672**	0.216	**0.293**	0.03
5	Body	N41	518598	2592.99	CP-OFDM QPSK	Top	10mm	\	Note1/3	50.00%	19.74	21.00	0.620	**0.829**	0.267	**0.357**	-0.18
5	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Front	10mm	\	Note2/3	50.00%	17.52	18.50	0.093	**0.117**	0.045	**0.056**	0.05
5	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Rear	10mm	\	Note2/3	50.00%	17.52	18.50	0.221	**0.277**	0.097	**0.122**	0.14
5	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Left	10mm	\	Note2/3	50.00%	17.52	18.50	0.071	**0.089**	0.036	**0.045**	0.09
5	Body	N41	528000	2640	DFT-s-OFDM QPSK	Top	10mm	\	Note2/3	50.00%	17.42	18.50	0.470	**0.603**	0.201	**0.258**	0.02
5	Body	N41	523299	2616.495	DFT-s-OFDM QPSK	Top	10mm	\	Note2/3	50.00%	17.43	18.50	0.375	**0.480**	0.162	**0.207**	-0.01
5	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Top	10mm	\	Note2/3	50.00%	17.52	18.50	0.393	**0.492**	0.174	**0.218**	-0.04
5	Body	N41	513900	2569.5	DFT-s-OFDM QPSK	Top	10mm	\	Note2/3	50.00%	17.39	18.50	0.309	**0.399**	0.135	**0.174**	0.02
5	Body	N41	509202	2546.01	DFT-s-OFDM QPSK	Top	10mm	\	Note2/3	50.00%	17.43	18.50	0.285	**0.365**	0.125	**0.160**	-0.09
5	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Front	15mm	\	Note4	50.00%	26.00	27.00	0.173	**0.218**	0.088	**0.111**	0.06
5	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Rear	22mm	\	Note4	50.00%	26.00	27.00	0.229	**0.288**	0.120	**0.151**	0.14
5	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Top	22mm	\	Note4	50.00%	26.00	27.00	0.342	**0.431**	0.178	**0.224**	0.08
1	Head	N66	355500	1777.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	22.91	24.50	0.170	**0.245**	0.106	**0.153**	0.01
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	22.98	24.50	0.193	**0.274**	0.121	**0.172**	0.1
1	Head	N66	342500	1712.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	22.97	24.50	0.183	**0.260**	0.114	**0.162**	0.04
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Left	0mm	\	\	100.00%	22.98	24.50	0.089	**0.126**	0.053	**0.075**	-0.06
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Right	0mm	\	\	100.00%	22.98	24.50	0.111	**0.158**	0.070	**0.099**	-0.16
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Right	0mm	\	\	100.00%	22.98	24.50	0.073	**0.104**	0.047	**0.067**	0.17
1	Head	N66	349000	1745	CP-OFDM 16QAM	Cheek Right	0mm	\	\	100.00%	21.53	23.00	0.106	**0.149**	0.068	**0.095**	0.18
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	10mm	\	\	100.00%	20.89	22.00	0.224	**0.289**	0.142	**0.183**	0.04
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	10mm	\	\	100.00%	20.89	22.00	0.623	**0.804**	0.370	**0.478**	-0.16
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Right	10mm	\	\	100.00%	20.89	22.00	0.146	**0.189**	0.082	**0.106**	-0.04
1	Body	N66	355500	1777.5	DFT-s-OFDM QPSK	Bottom	10mm	\	\	100.00%	20.81	22.00	0.423	**0.556**	0.246	**0.324**	-0.16
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Bottom	10mm	FIG A.40	\	100.00%	20.89	22.00	0.660	**0.852**	0.384	**0.496**	0.01
1	Body	N66	342500	1712.5	DFT-s-OFDM QPSK	Bottom	10mm	\	\	100.00%	20.84	22.00	0.579	**0.756**	0.334	**0.436**	0.18
1	Body	N66	349000	1745	CP-OFDM QPSK	Bottom	10mm	\	\	100.00%	20.88	22.00	0.641	**0.830**	0.369	**0.478**	0.05
5	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Left	0mm	\	Note2	100.00%	15.86	17.00	0.075	**0.098**	0.060	**0.078**	0.18
5	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Left	0mm	\	Note2	100.00%	15.86	17.00	0.179	**0.233**	0.132	**0.172**	0.08
5	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	100.00%	15.86	17.00	0.173	**0.225**	0.124	**0.161**	0.06
5	Head	N66	355500	1777.5	DFT-s-OFDM QPSK	Tilt Right	0mm	FIG A.39	Note2	100.00%	15.78	17.00	0.481	**0.637**	0.197	**0.261**	0.03
5	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note2	100.00%	15.86	17.00	0.281	**0.365**	0.186	**0.242**	0.12
5	Head	N66	342500	1712.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note2	100.00%	15.84	17.00	0.261	**0.341**	0.173	**0.226**	0.15
5	Head	N66	349000	1745	CP-OFDM 16QAM	Tilt Right	0mm	\	Note2	100.00%	15.78	17.00	0.268	**0.355**	0.176	**0.233**	-0.04
5	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	10mm	\	Note2/3	100.00%	21.15	22.00	0.292	**0.355**	0.154	**0.187**	0.13
5	Body	N66	355500	1777.5	DFT-s-OFDM QPSK	Rear	10mm	\	Note2/3	100.00%	21.04	22.00	0.518	**0.646**	0.265	**0.331**	0.16
5	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	10mm	\	Note2/3	100.00%	21.15	22.00	0.535	**0.651**	0.275	**0.334**	0.05
5	Body	N66	342500	1712.5	DFT-s-OFDM QPSK	Rear	10mm	\	Note2/3	100.00%	21.12	22.00	0.433	**0.530**	0.238	**0.291**	-0.02
5	Body	N66	349000	1745	DFT-s-OFDM QPSK	Left	10mm	\	Note2/3	100.00%	21.15	22.00	0.101	**0.123**	0.057	**0.069**	0.03
5	Body	N66	349000	1745	DFT-s-OFDM QPSK	Top	10mm	\	Note2/3	100.00%	21.15	22.00	0.505	**0.614**	0.241	**0.293**	0.15
5	Body	N66	349000	1745	CP-OFDM QPSK	Left	10mm	\	Note2/3	100.00%	21.09	22.00	0.109	**0.134**	0.061	**0.075**	0.01
5	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	15mm	\	Note2/4	100.00%	23.17	24.50	0.163	**0.221**	0.096	**0.130**	0.05
5	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	22mm	\	Note2/4	100.00%	23.17	24.50	0.130	**0.177**	0.080	**0.109**	-0.09
5	Body	N66	349000	1745	DFT-s-OFDM QPSK	Top	22mm	\	Note2/4	100.00%	23.17	24.50	0.173	**0.235**	0.102	**0.139**	0.14
2	Head	N71	136100	680.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	23.19	24.50	0.112	**0.151**	0.088	**0.119**	-0.17
2	Head	N71	136100	680.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	\	100.00%	23.19	24.50	0.077	**0.104**	0.060	**0.081**	-0.02
2	Head	N71	139100	695.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	\	100.00%	23.15	24.50	0.084	**0.115**	0.065	**0.089**	-0.05
2	Head	N71	136100	680.5	DFT-s-OFDM QPSK	Cheek Right	0mm	FIG A.41	\	100.00%	23.19	24.50	0.116	**0.157**	0.090	**0.122**	0.18
2	Head	N71	133100	665.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	\	100.00%	23.09	24.50	0.070	**0.097**	0.056	**0.077**	-0.05
2	Head	N71	136100	680.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	\	100.00%	23.19	24.50	0.063	**0.085**	0.050	**0.068**	0.09
2	Head	N71	136100	680.5	CP-OFDM QPSK	Cheek Left	0mm	\	\	100.00%	21.75	23.00	0.087	**0.116**	0.067	**0.089**	0.11
2	Body	N71	136100	680.5	DFT-s-OFDM QPSK	Front	10mm	\	\	100.00%	23.19	24.50	0.167	**0.226**	0.123	**0.166**	0.05
2	Body	N71	139100	695.5	DFT-s-OFDM QPSK	Rear	10mm	\	\	100.00%	23.15	24.50	0.270	**0.368**	0.184	**0.251**	-0.12
2	Body	N71	136100	680.5	DFT-s-OFDM QPSK	Rear	10mm	\	\	100.00%	23.19	24.50	0.288	**0.389**	0.197	**0.266**	-0.02
2	Body	N71	133100	665.5	DFT-s-OFDM QPSK	Rear	10mm	FIG A.42	\	100.00%	23.09	24.50	0.303	**0.419**	0.215	**0.297**	-0.08
2	Body	N71	136100	680.5	DFT-s-OFDM QPSK	Left	10mm	\	\	100.00%	23.19	24.50	0.155	**0.210**	0.098	**0.133**	0.16
2	Body	N71	136100	680.5	DFT-s-OFDM QPSK	Bottom	10mm	\	\	100.00%	23.19	24.50	0.163	**0.220**	0.098	**0.133**	0.11
2	Body	N71	136100	680.5	CP-OFDM QPSK	Rear	10mm	\	\	100.00%	21.75	23.00	0.221	**0.295**	0.161	**0.215**	0.07

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test setup	Distance	Figure No./Note	Note	Duty Cycle	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
4	Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Cheek Left	0mm	\	Note1	50%	22.68	24.00	0.274	**0.371**	0.131	**0.178**	-0.05
4	Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Tilt Left	0mm	\	Note1	50%	22.68	24.00	0.207	**0.281**	0.097	**0.131**	-0.09
4	Head	N77-L	636332	3544.98	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	22.60	24.00	0.763	**1.053**	0.350	**0.483**	0.18
4	Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Cheek Right	0mm	FIG A.43	Note1	50%	22.68	24.00	0.801	1.086	0.359	**0.487**	-0.05
4	Head	N77-L	630334	3445.01	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	22.63	24.00	0.771	**1.057**	0.355	**0.487**	0.11
4	Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note1	50%	22.68	24.00	0.281	**0.381**	0.134	**0.182**	0.04
4	Head	N77-L	633334	3500.01	CP-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	22.64	24.00	0.784	**1.072**	0.354	**0.484**	0.02
4	Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Cheek Left	0mm	\	Note2	50%	19.67	21.00	0.115	**0.156**	0.056	**0.076**	-0.04
4	Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Tilt Left	0mm	\	Note2	50%	19.67	21.00	0.093	**0.126**	0.046	**0.062**	0.04
4	Head	N77-L	636332	3544.98	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	19.60	21.00	0.326	**0.450**	0.156	**0.215**	-0.02
4	Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	19.67	21.00	0.422	**0.573**	0.188	**0.255**	0.09
4	Head	N77-L	630334	3445.01	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	19.63	21.00	0.338	**0.463**	0.162	**0.222**	0.15
4	Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note2	50%	19.67	21.00	0.160	**0.217**	0.078	**0.106**	0.05
4	Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Front	10mm	\	\	50%	25.29	27.00	0.461	**0.683**	0.244	**0.362**	-0.19
4	Body	N77-L	636332	3544.98	DFT-s-OFDM QPSK	Rear	10mm	\	\	50%	25.17	27.00	0.576	**0.878**	0.239	**0.364**	0.15
4	Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Rear	10mm	FIG A.44	\	50%	25.29	27.00	0.619	0.918	0.262	**0.388**	0.01
4	Body	N77-L	630334	3445.01	DFT-s-OFDM QPSK	Rear	10mm	\	\	50%	25.09	27.00	0.593	**0.921**	0.250	**0.388**	0.09
4	Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Left	10mm	\	\	50%	25.29	27.00	0.501	**0.743**	0.221	**0.328**	0.11
4	Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Top	10mm	\	\	50%	25.29	27.00	0.242	**0.359**	0.109	**0.162**	-0.09
4	Body	N77-L	633334	3500.01	CP-OFDM QPSK	Rear	10mm	\	\	50%	23.78	25.50	0.483	**0.718**	0.211	**0.314**	0.07
4	Head	N77-H	657800	3867	DFT-s-OFDM QPSK	Cheek Left	0mm	\	Note1	50%	23.04	24.00	0.217	**0.271**	0.096	**0.120**	0.16
4	Head	N77-H	657800	3867	DFT-s-OFDM QPSK	Tilt Left	0mm	\	Note1	50%	23.04	24.00	0.268	**0.334**	0.117	**0.146**	-0.15
4	Head	N77-H	665000	3975	DFT-s-OFDM QPSK	Cheek Right	0mm	FIG A.45	Note1	50%	22.97	24.00	0.847	1.074	0.360	**0.456**	0.12
4	Head	N77-H	661400	3921	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	23.00	24.00	0.735	**0.925**	0.304	**0.383**	0.08
4	Head	N77-H	657800	3867	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	23.04	24.00	0.728	**0.908**	0.297	**0.370**	-0.19
4	Head	N77-H	654200	3813	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	22.86	24.00	0.701	**0.911**	0.290	**0.377**	0.05
4	Head	N77-H	650600	3759	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	22.81	24.00	0.545	**0.717**	0.242	**0.318**	0.15
4	Head	N77-H	647000	3705	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	22.56	24.00	0.529	**0.737**	0.235	**0.327**	0.04
4	Head	N77-H	657800	3867	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note1	50%	23.04	24.00	0.508	**0.634**	0.205	**0.256**	-0.16
4	Head	N77-H	657800	3867	CP-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	23.01	24.00	0.558	**0.701**	0.248	**0.311**	-0.06
4	Head	N77-H	657800	3867	DFT-s-OFDM QPSK	Cheek Left	0mm	\	Note2	50%	19.86	21.00	0.137	**0.178**	0.056	**0.073**	-0.16
4	Head	N77-H	657800	3867	DFT-s-OFDM QPSK	Tilt Left	0mm	\	Note2	50%	19.86	21.00	0.176	**0.229**	0.069	**0.090**	0.12
4	Head	N77-H	665000	3975	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	19.80	21.00	0.518	**0.683**	0.200	**0.264**	0.01
4	Head	N77-H	661400	3921	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	19.83	21.00	0.492	**0.644**	0.186	**0.244**	-0.03
4	Head	N77-H	657800	3867	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	19.86	21.00	0.456	**0.593**	0.169	**0.220**	-0.02
4	Head	N77-H	654200	3813	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	19.70	21.00	0.436	**0.588**	0.163	**0.220**	-0.01
4	Head	N77-H	650600	3759	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	19.66	21.00	0.333	**0.453**	0.134	**0.182**	-0.03
4	Head	N77-H	647000	3705	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	19.55	21.00	0.325	**0.454**	0.131	**0.183**	0.08
4	Head	N77-H	657800	3867	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note2	50%	19.86	21.00	0.310	**0.403**	0.123	**0.160**	-0.14
4	Body	N77-H	647000	3705	DFT-s-OFDM QPSK	Front	10mm	\	\	50%	25.78	27.00	0.428	**0.567**	0.230	**0.305**	-0.11
4	Body	N77-H	647000	3705	DFT-s-OFDM QPSK	Rear	10mm	\	\	50%	25.78	27.00	0.415	**0.550**	0.182	**0.241**	0.09
4	Body	N77-H	647000	3705	DFT-s-OFDM QPSK	Left	10mm	\	\	50%	25.78	27.00	0.530	**0.702**	0.231	**0.306**	0.03
4	Body	N77-H	665000	3975	DFT-s-OFDM QPSK	Top	10mm	\	\	50%	25.60	27.00	0.565	**0.780**	0.286	**0.395**	0.13
4	Body	N77-H	661400	3921	DFT-s-OFDM QPSK	Top	10mm	\	\	50%	25.55	27.00	0.263	**0.367**	0.115	**0.161**	0.17
4	Body	N77-H	657800	3867	DFT-s-OFDM QPSK	Top	10mm	\	\	50%	25.50	27.00	0.220	**0.311**	0.103	**0.145**	0.11
4	Body	N77-H	654200	3813	DFT-s-OFDM QPSK	Top	10mm	\	\	50%	25.00	27.00	0.415	**0.658**	0.178	**0.282**	-0.13
4	Body	N77-H	650600	3759	DFT-s-OFDM QPSK	Top	10mm	\	\	50%	25.33	27.00	0.570	**0.837**	0.255	**0.375**	0.01
4	Body	N77-H	647000	3705	DFT-s-OFDM QPSK	Top	10mm	FIG A.46	\	50%	25.78	27.00	0.746	0.988	0.315	**0.417**	-0.18
4	Body	N77-H	647000	3705	CP-OFDM QPSK	Top	10mm	\	\	50%	24.32	25.50	0.544	**0.714**	0.243	**0.319**	0.07
4	Head	N78-L	630334	3445.01	DFT-s-OFDM QPSK	Cheek Left	0mm	\	Note1	50%	20.83	22.00	0.161	**0.211**	0.065	**0.085**	-0.09
4	Head	N78-L	630334	3445.01	DFT-s-OFDM QPSK	Tilt Left	0mm	\	Note1	50%	20.83	22.00	0.169	**0.221**	0.058	**0.076**	-0.16
4	Head	N78-L	636332	3544.98	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	20.76	22.00	0.637	**0.847**	0.234	**0.311**	0.07
4	Head	N78-L	633334	3500.01	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	20.83	22.00	0.665	**0.871**	0.248	**0.325**	-0.15
4	Head	N78-L	630334	3445.01	DFT-s-OFDM QPSK	Cheek Right	0mm	FIG A.47	Note1	50%	20.78	22.00	0.720	0.954	0.333	**0.441**	0.03
4	Head	N78-L	630334	3445.01	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note1	50%	20.83	22.00	0.471	**0.617**	0.164	**0.215**	0.07
4	Head	N78-L	630334	3445.01	CP-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	20.82	22.00	0.694	**0.911**	0.316	**0.415**	0.15
4	Head	N78-L	630334	3445.01	DFT-s-OFDM QPSK	Cheek Left	0mm	\	Note2	50%	18.79	20.00	0.104	**0.137**	0.051	**0.067**	-0.19
4	Head	N78-L	630334	3445.01	DFT-s-OFDM QPSK	Tilt Left	0mm	\	Note2	50%	18.79	20.00	0.106	**0.140**	0.047	**0.062**	-0.05
4	Head	N78-L	636332	3544.98	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	18.73	20.00	0.327	**0.438**	0.15	**0.201**	0.01
4	Head	N78-L	633334	3500.01	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	18.79	20.00	0.337	**0.445**	0.156	**0.206**	-0.16
4	Head	N78-L	630334	3445.01	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	18.75	20.00	0.367	**0.489**	0.169	**0.225**	0.18
4	Head	N78-L	630334	3445.01	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note2	50%	18.79	20.00	0.251	**0.332**	0.109	**0.144**	-0.19
4	Body	N78-L	630334	3445.01	DFT-s-OFDM QPSK	Front	10mm	\	\	50%	25.82	27.00	0.465	**0.610**	0.226	**0.297**	0.02
4	Body	N78-L	636332	3544.98	DFT-s-OFDM QPSK	Rear	10mm	\	\	50%	25.74	27.00	0.722	**0.965**	0.295	**0.394**	0.05
4	Body	N78-L	633334	3500.01	DFT-s-OFDM QPSK	Rear	10mm	\	\	50%	25.76	27.00	0.748	**0.995**	0.306	**0.407**	0.17
4	Body	N78-L	630334	3445.01	DFT-s-OFDM QPSK	Rear	10mm	FIG A.48	\	50%	25.82	27.00	0.801	1.051	0.344	**0.451**	0.1
4	Body	N78-L	630334	3445.01	DFT-s-OFDM QPSK	Left	10mm	\	\	50%	25.82	27.00	0.502	**0.659**	0.233	**0.306**	-0.13
4	Body	N78-L	630334	3445.01	DFT-s-OFDM QPSK	Top	10mm	\	\	50%	25.82	27.00	0.294	**0.386**	0.136	**0.178**	-0.04
4	Body	N78-L	633334	3500.01	CP-OFDM QPSK	Rear	10mm	\	\	50%	24.24	25.50	0.534	**0.714**	0.255	**0.341**	-0.02
4	Head	N78-H	650000	3750	DFT-s-OFDM QPSK	Cheek Left	0mm	\	Note1	50%	20.69	22.00	0.173	**0.234**	0.081	**0.110**	-0.12
4	Head	N78-H	650000	3750	DFT-s-OFDM QPSK	Tilt Left	0mm	\	Note1	50%	20.69	22.00	0.286	**0.387**	0.123	**0.166**	0.07
4	Head	N78-H	653000	3795	DFT-s-OFDM QPSK	Cheek Right	0mm	FIG A.49	Note1	50%	20.60	22.00	0.832	1.148	0.331	**0.457**	0.18
4	Head	N78-H	650000	3750	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	20.69	22.00	0.719	**0.972**	0.297	**0.402**	0.1
4	Head	N78-H	647000	3705	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	20.62	22.00	0.645	**0.886**	0.261	**0.359**	0.09
4	Head	N78-H	653000	3795	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note1	50%	20.60	22.00	0.725	**1.001**	0.302	**0.417**	0.02
4	Head	N78-H	650000	3750	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note1	50%	20.69	22.00	0.628	**0.849**	0.159	**0.215**	0.04
4	Head	N78-H	647000	3705	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note1	50%	20.62	22.00	0.611	**0.840**	0.142	**0.195**	-0.09
4	Head	N78-H	650000	3750	CP-OFDM QPSK	Cheek Right	0mm	\	Note1	50%	20.60	22.00	0.638	**0.881**	0.255	**0.352**	0.11
4	Head	N78-H	650000	3750	DFT-s-OFDM QPSK	Cheek Left	0mm	\	Note2	50%	18.62	20.00	0.104	**0.143**	0.050	**0.069**	0.03
4	Head	N78-H	650000	3750	DFT-s-OFDM QPSK	Tilt Left	0mm	\	Note2	50%	18.62	20.00	0.181	**0.249**	0.078	**0.107**	0.05
4	Head	N78-H	653000	3795	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	18.57	20.00	0.508	**0.706**	0.204	**0.284**	-0.06
4	Head	N78-H	650000	3750	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	18.62	20.00	0.443	**0.609**	0.185	**0.254**	0.07
4	Head	N78-H	647000	3705	DFT-s-OFDM QPSK	Cheek Right	0mm	\	Note2	50%	18.56	20.00	0.332	**0.463**	0.140	**0.195**	0.06
4	Head	N78-H	650000	3750	DFT-s-OFDM QPSK	Tilt Right	0mm	\	Note2	50%	18.62	20.00	0.390	**0.536**	0.147	**0.202**	0.02
4	Body	N78-H	650000	3750	DFT-s-OFDM QPSK	Front	10mm	\	\	50%	25.79	27.00	0.293	**0.387**	0.135	**0.178**	0.13
4	Body	N78-H	653000	3795	DFT-s-OFDM QPSK	Rear	10mm	\	\	50%	25.65	27.00	0.439	**0.599**	0.187	**0.255**	0.02
4	Body	N78-H	650000	3750	DFT-s-OFDM QPSK	Rear	10mm	FIG A.50	\	50%	25.79	27.00	0.535	0.707	0.226	**0.299**	0.09
4	Body	N78-H	647000	3705	DFT-s-OFDM QPSK	Rear	10mm	\	\	50%	25.77	27.00	0.413	**0.548**	0.184	**0.244**	0.16
4	Body	N78-H	650000	3750	DFT-s-OFDM QPSK	Left	10mm	\	\	50%	25.79	27.00	0.414	**0.547**	0.185	**0.244**	0.15
4	Body	N78-H	650000	3750	DFT-s-OFDM QPSK	Top	10mm	\	\	50%	25.79	27.00	0.445	**0.588**	0.190	**0.251**	-0.13
4	Body	N78-H	650000	3750	CP-OFDM QPSK	Rear	10mm	\	\	50%	24.19	25.50	0.511	**0.691**	0.217	**0.293**	0.01

14.3 SAR results for WLAN

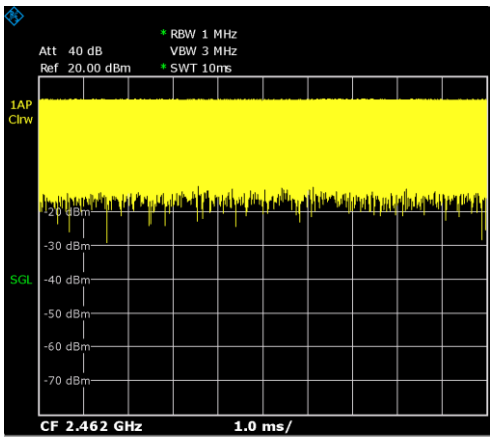
The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default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

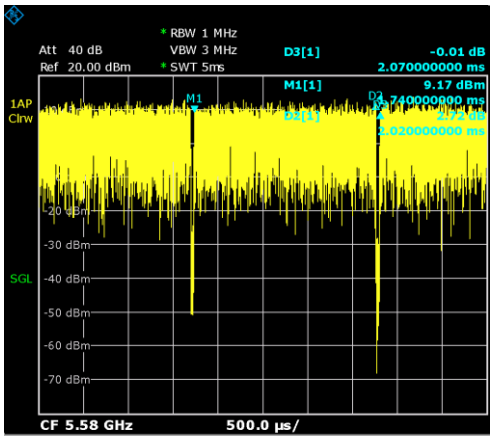
SAR Test reduction was applied from KDB 248227 guidance, when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest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

Duty factor plot

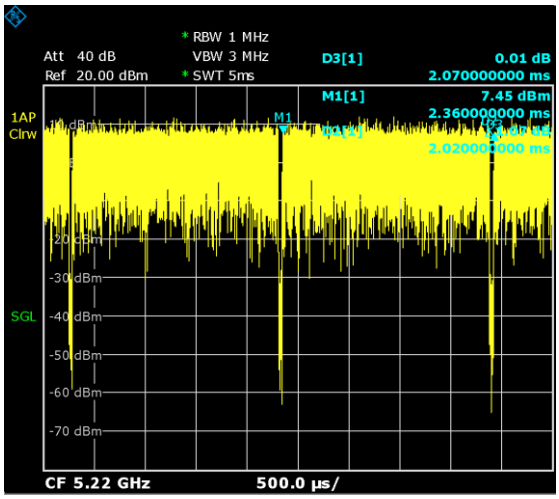
CH11



CH116



CH44



WLAN 2.4G

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	Note	Duty cycle	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
7	Head	WLAN2.4G	11	2462	11b	Cheek Left	0mm	FIG A.51	Note1	100.00%	16.37	18.00	0.746	**1.086**	0.376	**0.547**	0.05
7	Head	WLAN2.4G	6	2437	11b	Cheek Left	0mm	\	Note1	100.00%	16.26	18.00	0.541	**0.808**	0.275	**0.411**	-0.17
7	Head	WLAN2.4G	1	2412	11b	Cheek Left	0mm	\	Note1	100.00%	16.06	18.00	0.580	**0.907**	0.298	**0.466**	-0.14
7	Head	WLAN2.4G	11	2462	11b	Tilt Left	0mm	\	Note1	100.00%	16.37	18.00	0.666	**0.969**	0.314	**0.457**	-0.16
7	Head	WLAN2.4G	6	2437	11b	Tilt Left	0mm	\	Note1	100.00%	16.26	18.00	0.483	**0.721**	0.230	**0.343**	0.04
7	Head	WLAN2.4G	1	2412	11b	Tilt Left	0mm	\	Note1	100.00%	16.06	18.00	0.518	**0.810**	0.249	**0.389**	-0.03
7	Head	WLAN2.4G	11	2462	11b	Cheek Right	0mm	\	Note1	100.00%	16.37	18.00	0.276	**0.402**	0.148	**0.215**	0.06
7	Head	WLAN2.4G	11	2462	11b	Tilt Right	0mm	\	Note1	100.00%	16.37	18.00	0.268	**0.390**	0.130	**0.189**	0.16
7	Head	WLAN2.4G	11	2462	11b	Cheek Left	0mm	\	Note2	100.00%	14.31	15.50	0.475	**0.625**	0.235	**0.309**	0.09
7	Head	WLAN2.4G	11	2462	11b	Tilt Left	0mm	\	Note2	100.00%	14.31	15.50	0.424	**0.558**	0.196	**0.258**	-0.12
7	Head	WLAN2.4G	11	2462	11b	Cheek Right	0mm	\	Note2	100.00%	14.31	15.50	0.176	**0.231**	0.093	**0.122**	-0.04
7	Head	WLAN2.4G	11	2462	11b	Tilt Right	0mm	\	Note2	100.00%	14.31	15.50	0.171	**0.225**	0.081	**0.107**	0.06
7	Body	WLAN2.4G	11	2462	11b	Front	10mm	\	\	100.00%	17.76	19.00	0.217	**0.289**	0.111	**0.148**	0.12
7	Body	WLAN2.4G	11	2462	11b	Rear	10mm	FIG A.52	\	100.00%	17.76	19.00	0.318	**0.423**	0.148	**0.197**	-0.01
7	Body	WLAN2.4G	11	2462	11b	Right	10mm	\	\	100.00%	17.76	19.00	0.155	**0.206**	0.080	**0.106**	-0.12
7	Body	WLAN2.4G	11	2462	11b	Top	10mm	\	\	100.00%	17.76	19.00	0.129	**0.172**	0.064	**0.085**	0.05

WLAN 5G

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	Note	Duty cycle	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
6	Head	WLAN5G	36	5180	11a	Cheek Left	0mm	\	Note1	97.58%	15.33	15.50	0.384	**0.409**	0.139	**0.145**	0.18
6	Head	WLAN5G	36	5180	11a	Tilt Left	0mm	\	Note1	97.58%	15.33	15.50	0.513	**0.547**	0.160	**0.166**	0.15
6	Head	WLAN5G	36	5180	11a	Cheek Right	0mm	\	Note1	97.58%	15.33	15.50	0.397	**0.423**	0.151	**0.157**	-0.11
6	Head	WLAN5G	36	5180	11a	Tilt Right	0mm	\	Note1	97.58%	15.33	15.50	0.385	**0.410**	0.148	**0.154**	-0.07
6	Head	WLAN5G	64	5320	11a	Cheek Left	0mm	\	Note1	97.58%	14.54	15.50	0.362	**0.463**	0.134	**0.167**	-0.08
6	Head	WLAN5G	64	5320	11a	Tilt Left	0mm	\	Note1	97.58%	14.54	15.50	0.492	**0.629**	0.167	**0.208**	0.16
6	Head	WLAN5G	64	5320	11a	Cheek Right	0mm	\	Note1	97.58%	14.54	15.50	0.383	**0.490**	0.137	**0.171**	0.17
6	Head	WLAN5G	64	5320	11a	Tilt Right	0mm	\	Note1	97.58%	14.54	15.50	0.479	**0.612**	0.180	**0.225**	0.01
6	Head	WLAN5G	116	5580	11a	Cheek Left	0mm	\	Note1	97.58%	14.98	15.50	0.622	**0.719**	0.230	**0.259**	0.19
6	Head	WLAN5G	116	5580	11a	Tilt Left	0mm	\	Note1	97.58%	14.98	15.50	0.639	**0.738**	0.233	**0.263**	-0.01
6	Head	WLAN5G	116	5580	11a	Cheek Right	0mm	\	Note1	97.58%	14.98	15.50	0.690	**0.797**	0.249	**0.281**	-0.07
6	Head	WLAN5G	116	5580	11a	Tilt Right	0mm	FIG A.53	Note1	97.58%	14.98	15.50	0.758	**0.876**	0.273	**0.308**	0.01
6	Head	WLAN5G	165	5825	11a	Cheek Left	0mm	\	Note1	97.58%	14.82	15.50	0.397	**0.476**	0.144	**0.168**	-0.01
6	Head	WLAN5G	165	5825	11a	Tilt Left	0mm	\	Note1	97.58%	14.82	15.50	0.439	**0.526**	0.153	**0.179**	-0.03
6	Head	WLAN5G	165	5825	11a	Cheek Right	0mm	\	Note1	97.58%	14.82	15.50	0.521	**0.624**	0.171	**0.200**	-0.14
6	Head	WLAN5G	165	5825	11a	Tilt Right	0mm	\	Note1	97.58%	14.82	15.50	0.678	**0.813**	0.201	**0.235**	-0.09
6	Head	WLAN5G	36	5180	11a	Cheek Left	0mm	\	Note2	97.58%	11.90	12.00	0.194	**0.203**	0.065	**0.067**	0.18
6	Head	WLAN5G	36	5180	11a	Tilt Left	0mm	\	Note2	97.58%	11.90	12.00	0.258	**0.271**	0.074	**0.076**	-0.04
6	Head	WLAN5G	36	5180	11a	Cheek Right	0mm	\	Note2	97.58%	11.90	12.00	0.200	**0.210**	0.070	**0.072**	-0.05
6	Head	WLAN5G	36	5180	11a	Tilt Right	0mm	\	Note2	97.58%	11.90	12.00	0.194	**0.203**	0.069	**0.071**	0.18
6	Head	WLAN5G	52	5260	11a	Cheek Left	0mm	\	Note2	97.58%	11.71	12.00	0.182	**0.199**	0.062	**0.066**	-0.17
6	Head	WLAN5G	52	5260	11a	Tilt Left	0mm	\	Note2	97.58%	11.71	12.00	0.248	**0.272**	0.078	**0.083**	-0.15
6	Head	WLAN5G	52	5260	11a	Cheek Right	0mm	\	Note2	97.58%	11.71	12.00	0.193	**0.211**	0.064	**0.068**	0.19
6	Head	WLAN5G	52	5260	11a	Tilt Right	0mm	\	Note2	97.58%	11.71	12.00	0.241	**0.264**	0.084	**0.090**	0.02
6	Head	WLAN5G	116	5580	11a	Cheek Left	0mm	\	Note2	97.58%	11.84	12.00	0.314	**0.334**	0.107	**0.111**	0.09
6	Head	WLAN5G	116	5580	11a	Tilt Left	0mm	\	Note2	97.58%	11.84	12.00	0.322	**0.342**	0.108	**0.112**	0.12
6	Head	WLAN5G	116	5580	11a	Cheek Right	0mm	\	Note2	97.58%	11.84	12.00	0.348	**0.370**	0.116	**0.120**	0.03
6	Head	WLAN5G	116	5580	11a	Tilt Right	0mm	\	Note2	97.58%	11.84	12.00	0.382	**0.406**	0.127	**0.132**	0.17
6	Head	WLAN5G	165	5825	11a	Cheek Left	0mm	\	Note2	97.58%	11.64	12.00	0.200	**0.223**	0.067	**0.073**	-0.19
6	Head	WLAN5G	165	5825	11a	Tilt Left	0mm	\	Note2	97.58%	11.64	12.00	0.221	**0.246**	0.071	**0.077**	-0.04
6	Head	WLAN5G	165	5825	11a	Cheek Right	0mm	\	Note2	97.58%	11.64	12.00	0.263	**0.293**	0.079	**0.086**	-0.09
6	Head	WLAN5G	165	5825	11a	Tilt Right	0mm	\	Note2	97.58%	11.64	12.00	0.342	**0.381**	0.094	**0.102**	0.02
6	Body	WLAN5G	40	5200	11a	Front	10mm	\	Note1	97.58%	19.13	20.00	0.187	**0.234**	0.068	**0.083**	0.05
6	Body	WLAN5G	40	5200	11a	Rear	10mm	\	Note1	97.58%	19.13	20.00	0.378	**0.473**	0.155	**0.189**	0.04
6	Body	WLAN5G	40	5200	11a	Right	10mm	\	Note1	97.58%	19.13	20.00	0.150	**0.188**	0.061	**0.075**	0.17
6	Body	WLAN5G	40	5200	11a	Top	10mm	\	Note1	97.58%	19.13	20.00	0.803	**1.005**	0.282	**0.345**	0.12
6	Body	WLAN5G	44	5220	11a	Top	10mm	FIG A.54	Note1	97.58%	19.08	20.00	0.837	**1.060**	0.295	**0.365**	0.11
6	Body	WLAN5G	64	5320	11a	Front	10mm	\	Note1	97.58%	18.96	20.00	0.199	**0.259**	0.074	**0.094**	0.18
6	Body	WLAN5G	64	5320	11a	Rear	10mm	\	Note1	97.58%	18.96	20.00	0.260	**0.339**	0.099	**0.126**	-0.05
6	Body	WLAN5G	64	5320	11a	Right	10mm	\	Note1	97.58%	18.96	20.00	0.095	**0.124**	0.039	**0.050**	-0.19
6	Body	WLAN5G	52	5260	11a	Top	10mm	\	Note1	97.58%	18.90	20.00	0.746	**0.985**	0.264	**0.340**	0.1
6	Body	WLAN5G	64	5320	11a	Top	10mm	\	Note1	97.58%	18.96	20.00	0.663	**0.863**	0.219	**0.278**	0.19
6	Body	WLAN5G	116	5580	11a	Front	10mm	\	Note1	97.58%	18.97	20.00	0.383	**0.498**	0.139	**0.176**	-0.03
6	Body	WLAN5G	116	5580	11a	Rear	10mm	\	Note1	97.58%	18.97	20.00	0.306	**0.398**	0.108	**0.137**	-0.04
6	Body	WLAN5G	116	5580	11a	Right	10mm	\	Note1	97.58%	18.97	20.00	0.057	**0.074**	0.023	**0.029**	0.09
6	Body	WLAN5G	116	5580	11a	Top	10mm	\	Note1	97.58%	18.97	20.00	0.547	**0.711**	0.191	**0.242**	0.03
6	Body	WLAN5G	165	5825	11a	Front	10mm	\	Note1	97.58%	18.78	20.00	0.222	**0.301**	0.080	**0.106**	-0.1
6	Body	WLAN5G	165	5825	11a	Rear	10mm	\	Note1	97.58%	18.78	20.00	0.137	**0.186**	0.050	**0.066**	-0.17
6	Body	WLAN5G	165	5825	11a	Right	10mm	\	Note1	97.58%	18.78	20.00	0.048	**0.065**	0.020	**0.026**	-0.08
6	Body	WLAN5G	165	5825	11a	Top	10mm	\	Note1	97.58%	18.78	20.00	0.324	**0.440**	0.112	**0.148**	0.02
6	Body	WLAN5G	36	5180	11a	Front	10mm	\	Note2	97.58%	16.25	16.50	0.105	**0.114**	0.039	**0.041**	-0.11
6	Body	WLAN5G	36	5180	11a	Rear	10mm	\	Note2	97.58%	16.25	16.50	0.166	**0.180**	0.065	**0.069**	-0.11
6	Body	WLAN5G	36	5180	11a	Right	10mm	\	Note2	97.58%	16.25	16.50	0.084	**0.091**	0.035	**0.037**	0.08
6	Body	WLAN5G	36	5180	11a	Top	10mm	\	Note2	97.58%	16.25	16.50	0.452	**0.491**	0.162	**0.172**	0.12
6	Body	WLAN5G	52	5260	11a	Front	10mm	\	Note2	97.58%	16.14	16.50	0.112	**0.125**	0.043	**0.047**	-0.16
6	Body	WLAN5G	52	5260	11a	Rear	10mm	\	Note2	97.58%	16.14	16.50	0.146	**0.163**	0.056	**0.061**	0.04
6	Body	WLAN5G	52	5260	11a	Right	10mm	\	Note2	97.58%	16.14	16.50	0.053	**0.059**	0.023	**0.025**	0.02
6	Body	WLAN5G	52	5260	11a	Top	10mm	\	Note2	97.58%	16.14	16.50	0.373	**0.415**	0.126	**0.137**	-0.05
6	Body	WLAN5G	116	5580	11a	Front	10mm	\	Note2	97.58%	16.12	16.50	0.215	**0.240**	0.080	**0.087**	0.19
6	Body	WLAN5G	116	5580	11a	Rear	10mm	\	Note2	97.58%	16.12	16.50	0.173	**0.194**	0.062	**0.068**	0.03
6	Body	WLAN5G	116	5580	11a	Right	10mm	\	Note2	97.58%	16.12	16.50	0.032	**0.036**	0.013	**0.014**	0.15
6	Body	WLAN5G	116	5580	11a	Top	10mm	\	Note2	97.58%	16.12	16.50	0.307	**0.343**	0.110	**0.120**	0.07
6	Body	WLAN5G	165	5825	11a	Front	10mm	\	Note2	97.58%	15.85	16.50	0.124	**0.148**	0.046	**0.053**	-0.12
6	Body	WLAN5G	165	5825	11a	Rear	10mm	\	Note2	97.58%	15.85	16.50	0.077	**0.092**	0.029	**0.034**	0.01
6	Body	WLAN5G	165	5825	11a	Right	10mm	\	Note2	97.58%	15.85	16.50	0.027	**0.032**	0.011	**0.013**	0.11
6	Body	WLAN5G	165	5825	11a	Top	10mm	\	Note2	97.58%	15.85	16.50	0.182	**0.217**	0.065	**0.075**	0.06

14.4 SAR results for BT

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	Note	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
7	Head	BT	39	2441	GFSM	Cheek Left	0mm	FIG A.55	\	12.87	14.00	0.191	**0.248**	0.096	**0.125**	0.11
7	Head	BT	39	2441	GFSM	Tilt Left	0mm	\	\	12.87	14.00	0.113	**0.147**	0.056	**0.073**	0.19
7	Head	BT	39	2441	GFSM	Cheek Right	0mm	\	\	12.87	14.00	0.064	**0.083**	0.035	**0.045**	0.12
7	Head	BT	39	2441	GFSM	Tilt Right	0mm	\	\	12.87	14.00	0.046	**0.060**	0.023	**0.030**	0.17
7	Body	BT	39	2441	GFSM	Front	10mm	FIG A.56	\	12.87	14.00	0.052	**0.067**	0.029	**0.038**	0.01
7	Body	BT	39	2441	GFSM	Rear	10mm	\	\	12.87	14.00	0.036	**0.047**	0.020	**0.026**	0.02
7	Body	BT	39	2441	GFSM	Right	10mm	\	\	12.87	14.00	0.027	**0.035**	0.015	**0.019**	-0.07
7	Body	BT	39	2441	GFSM	Top	10mm	\	\	12.87	14.00	0.039	**0.051**	0.021	**0.027**	-0.14

14.5 SAR results for Phablet

According to the KDB648474 D04, for smart phones, with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance.

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB Publication 865664 D01 to address interactive hand use exposure conditions. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold. The normal tablet procedures in KDB Publication 616217 are required when the overall diagonal dimension of the device is > 20.0 cm. Hotspot mode SAR is not required when normal tablet procedures are applied. Extremity 10-g SAR is also not required for the front (top) surface of larger form factor full size tablets. The more conservative normal tablet SAR results can be used to support phablet mode 10-g extremity SAR.
3. The simultaneous transmission operating configurations applicable to voice and data transmissions for both phone and mini-tablet modes must be taken into consideration separately for 1-g and 10-g SAR to determine the simultaneous transmission SAR test exclusion and measurement requirements for the relevant wireless modes and exposure conditions

The 10g extremity SAR is not required for this DUT, because all the hotspot mode 1g reported SAR is less than 1.2 W/kg.

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; steps2) 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 ≥ 1.45W/kg (~ 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

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Original SAR 1g (W/kg)	First Repeated SAR 1g (W/kg)	The Ratio	Second Repeated SAR 1g (W/kg)
1	Body	GSM1900	810	1909.8	GPRS(4TX)	Bottom	10mm	1.030	0.989	1.04	/
1	Body	GSM1900	661	1880	GPRS(4TX)	Bottom	10mm	0.905	0.862	1.05	/
1	Body	GSM1900	512	1850.2	GPRS(4TX)	Bottom	10mm	0.885	0.843	1.05	/
1	Body	GSM1900	810	1909.8	EGPRS(4TX)	Bottom	10mm	0.992	0.957	1.04	/
1	Body	WCDMA 1700	1412	1732.4	RMC	Bottom	10mm	0.849	0.791	1.07	/
1	Body	WCDMA 1900	9400	1880	RMC	Bottom	10mm	0.914	0.854	1.07	/
1	Body	WCDMA 1900	9262	1852.4	RMC	Bottom	10mm	0.934	0.892	1.05	/
1	Body	LTE Band2	18900	1880	1RB-Middle	Bottom	10mm	0.803	0.763	1.05	/
1	Body	LTE Band2	18700	1860	1RB-Middle	Bottom	10mm	0.873	0.818	1.07	/
5	Head	LTE Band7	21350	2560	1RB-Middle	Tilt Right	0mm	0.881	0.835	1.06	/
5	Head	LTE Band7	21100	2535	1RB-Middle	Tilt Right	0mm	0.804	0.762	1.06	/
5	Body	LTE Band7	21350	2560	1RB-Middle	Top	10mm	0.899	0.866	1.04	/
5	Body	LTE Band7	21100	2535	1RB-Middle	Top	10mm	0.849	0.797	1.07	/
5	Body	LTE Band7	21350	2560	50RB-Middle	Top	10mm	0.822	0.772	1.06	/
5	Body	LTE Band7	21100	2535	50RB-Middle	Top	10mm	0.851	0.807	1.05	/
5	Body	LTE Band7	20850	2510	100RB	Top	10mm	0.814	0.769	1.06	/
5	Head	LTE Band41 PC2	41055	2636.5	1RB-Low	Tilt Right	0mm	0.870	0.830	1.05	/
5	Head	LTE Band41 PC2	41055	2636.5	50RB-Middle	Tilt Right	0mm	0.925	0.873	1.06	/
5	Head	LTE Band41 PC2	41055	2636.5	100RB	Tilt Right	0mm	0.844	0.810	1.04	/
5	Body	LTE Band41 PC2	41055	2636.5	1RB-Low	Top	10mm	0.955	0.906	1.05	/
5	Body	LTE Band41 PC2	41055	2636.5	50RB-Middle	Top	10mm	1.010	0.952	1.06	/
5	Body	LTE Band41 PC2	41055	2636.5	100RB	Top	10mm	0.925	0.875	1.06	/
5	Head	LTE Band41 PC3	41490	2680	1RB-Low	Tilt Right	0mm	0.863	0.825	1.05	/
5	Head	LTE Band41 PC3	41055	2636.5	1RB-Low	Tilt Right	0mm	0.938	0.907	1.03	/
5	Head	LTE Band41 PC3	41490	2680	50RB-Middle	Tilt Right	0mm	0.814	0.774	1.05	/
5	Head	LTE Band41 PC3	41055	2636.5	50RB-Middle	Tilt Right	0mm	0.902	0.860	1.05	/
5	Head	LTE Band41 PC3	40620	2593	50RB-Middle	Tilt Right	0mm	0.840	0.787	1.07	/
5	Head	LTE Band41 PC3	41055	2636.5	100RB	Tilt Right	0mm	0.849	0.819	1.04	/
5	Body	LTE Band41 PC3	41490	2680	50RB-Middle	Top	10mm	0.808	0.770	1.05	/
5	Body	LTE Band41 PC3	41055	2636.5	50RB-Middle	Top	10mm	0.895	0.835	1.07	/
5	Body	LTE Band41 PC3	40620	2593	50RB-Middle	Top	10mm	0.833	0.795	1.05	/
5	Body	LTE Band41 PC3	41055	2636.5	100RB	Top	10mm	0.842	0.793	1.06	/

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test setup	Distance	Original SAR 1g (W/kg)	First Repeated SAR 1g (W/kg)	The Ratio	Second Repeated SAR 1g (W/kg)
5	Head	N7	512000	2560	DFT-s-OFDM QPSK	Tilt Right	0mm	0.936	0.882	1.06	/
5	Head	N7	507000	2535	DFT-s-OFDM QPSK	Tilt Right	0mm	0.911	0.866	1.05	/
5	Head	N7	502000	2510	DFT-s-OFDM QPSK	Tilt Right	0mm	0.913	0.872	1.05	/
5	Head	N7	507000	2535	CP-OFDM QPSK	Tilt Right	0mm	0.886	0.838	1.06	/
5	Body	N7	502000	2510	DFT-s-OFDM QPSK	Top	10mm	0.841	0.808	1.04	/
5	Head	N41	528000	2640	DFT-s-OFDM QPSK	Tilt Right	0mm	0.922	0.881	1.05	/
5	Head	N41	523299	2616.495	DFT-s-OFDM QPSK	Tilt Right	0mm	0.891	0.860	1.04	/
5	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Tilt Right	0mm	0.810	0.759	1.07	/
5	Body	N41	528000	2640	DFT-s-OFDM QPSK	Top	10mm	0.817	0.775	1.05	/
4	Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Cheek Right	0mm	0.801	0.769	1.04	/
4	Head	N77-H	665000	3975	DFT-s-OFDM QPSK	Cheek Right	0mm	0.847	0.791	1.07	/
4	Body	N78-L	630334	3445.01	DFT-s-OFDM QPSK	Rear	10mm	0.801	0.743	1.08	/
4	Head	N78-H	653000	3795	DFT-s-OFDM QPSK	Cheek Right	0mm	0.832	0.782	1.06	/

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Original SAR 1g (W/kg)	First Repeated SAR 1g (W/kg)	The Ratio	Second Repeated SAR 1g (W/kg)
6	Body	WLAN5G	40	5200	11a	Top	10mm	0.803	0.747	1.07	/
6	Body	WLAN5G	44	5220	11a	Top	10mm	0.837	0.789	1.06	/

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	√3	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	√3	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	√3	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	√3	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	√3	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	√3	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	√3	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	√3	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	√3	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.8	R	√3	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	√3	1	1	3.9	3.9	∞
13	Post-processing	B	4.0	R	√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	√3	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	√3	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	√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	√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 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		$u_c^{'} = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						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-Approximation	B	14.0	R	$\sqrt{3}$	1	1	8.1	8.1	∞
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	MY55491241	May 21, 2024	One year
02	Power sensor	NRP50S	101488	June 5, 2024	One year
03	Power sensor	NRP50S	101489		
04	Signal Generator	MG3700A	6201052605	June 12 2024	One Year
05	Amplifier	60S1G4	0331848	No Calibration Requested	
06	BTS	CMW500	170618	April 8, 2024	One year
07	DAE	SPEAG DAE4	1525	September 14,2023	One year
08	E-field Probe	SPEAG EX3DV4	7464	January 22,2024	One year
09	DAE	SPEAG DAE4	1807	May 14,2024	One year
10	E-field Probe	SPEAG EX3DV4	3846	June 19，2024	One year
11	Dipole Validation Kit	SPEAG D750V3	1017	July 9,2024	One year
12	Dipole Validation Kit	SPEAG D835V2	4d069	July 9,2024	One year
13	Dipole Validation Kit	SPEAG D1750V2	1003	July 11,2024	One year
14	Dipole Validation Kit	SPEAG D1900V2	5d101	July 8,2024	One year
15	Dipole Validation Kit	SPEAG D2450V2	853	July 10,2024	One year
16	Dipole Validation Kit	SPEAG D2600V2	1012	July 10,2024	One year
17	Dipole Validation Kit	SPEAG D3500V2	1016	June 13,2024	One year
18	Dipole Validation Kit	SPEAG D3700V2	1004	June 13,2024	One year
19	Dipole Validation Kit	SPEAG D3900V2	1024	June 14,2024	One year
20	Dipole Validation Kit	SPEAG D5GHzV2	1060	June 12,2024	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