SAR TEST REPORT

No. 24T04Z102681-008

For

TCL Communication Ltd.

GSM/UMTS/LTE/NR Mobile phone

Model Name: T513W

with

Hardware Version: 03

Software Version: vBCSH

FCC ID: 2ACCJH186

Issued Date: 2025-02-08

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

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REPORT HISTORY

Report Number	Revision	Issue Date	Description
24T04Z102681-008	Rev.0	2025-01-07	Initial creation of test report
24T04Z102681-008	Rev.1	2025-02-08	Update the information on section 2

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: 18-25℃

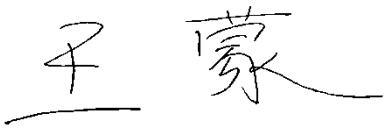
Relative Humidity: 30-70%

1.4. Project data

Testing Start Date: 2024-12-06

Testing End Date: 2025-01-05

1.5. Signature

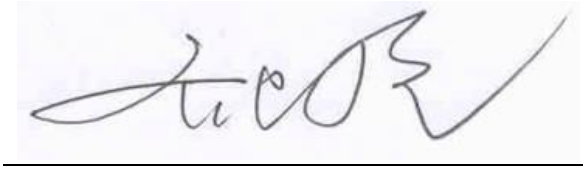


Wang Meng

(Prepared this test report)

Lin Jun

(Reviewed this test report)



Qi Dianyuan

Deputy Director of the laboratory

(Approved this test report)

2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for TCL Communication Ltd. GSM/UMTS/LTE/NR Mobile phone T513W is as follows:

Table 2.1: Highest Reported SAR (1g)

Technology Band	Antenna	Head (Separation Distance 0mm)	Body-Worn (Separation Distance 15mm)	Hotspot (Separation Distance 10mm)	Phablet SAR(10g) (Separation Distance 0mm)	Equipment Class
GSM850	ANT1	0.05	0.08	0.08	/	PCE
GSM1900	ANT1	0.13	0.24	0.68	/	
UMTS FDD 2	ANT1	0.17	0.30	0.43	/	
UMTS FDD 4	ANT1	0.20	0.25	0.50	/	
UMTS FDD 5	ANT0	1.06	0.33	0.33	/	
LTE Band 12	ANT0	0.78	0.34	0.34	/	
LTE Band 25	ANT1	0.25	0.32	0.52	/	
LTE Band 26	ANT0	1.14	0.60	0.60	/	
LTE Band 41-PC2	ANT1	0.38	0.31	0.40	/	
LTE Band 41-PC3	ANT1	0.32	0.31	0.33	/	
LTE Band 66	ANT1	0.19	0.36	0.62	/	
LTE Band 71	ANT0	0.47	0.23	0.23	/	
N25	ANT1	0.09	0.35	0.67	/	
N41	ANT1	0.67	0.32	0.48	/	
N66	ANT1	0.09	0.35	0.66	/	
N71	ANT0	0.37	0.19	0.19	/	
WLAN 2.4G	ANT3	0.37	0.10	0.23	/	DTS
WLAN 5G	ANT3	0.88	0.88	0.48	2.05	NII
BT	ANT3	0.06	0.22	0.22	/	DSS

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

For body operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and which provides a minimum separation distance of 10 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: 1.14 W/kg (1g)

Hotspot: 0.68 W/kg (1g)

Body-worn: 0.88 W/kg (1g)

The device have similar frequency in some LTE bands ： LTE Band2/25, LTE Band4/66 and LTE Band5/26 since the supported frequency spans for the smaller LTE bands are completely cover by the larger LTE bands and the channel bandwidth and other operating parameters for the smaller band be fully supported by the larger band, therefore, only larger LTE bands were required to be tested for SAR.

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

	Position	Main antenna	WIFI5G	BT	Sum
Highest SAR value for Body-worn	Rear 15mm	0.52 (LTE Band26)	0.88	0.16	**1.56**

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.

According to the above tables, the highest sum of reported SAR values is **1.56 W/kg (1g)**. The detail for simultaneous transmission consideration is described in chapter 13.

3 Client Information

3.1 Applicant Information

Company Name:	TCL Communication Ltd.
Address/Post:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact Person:	Ting Wang
Contact Email:	ting.wang.hz@tcl.com
Telephone:	+86 752 2639091
Fax:	/

3.2 Manufacturer Information

Company Name:	TCL Communication Ltd.
Address/Post:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact Person:	Ting Wang
Contact Email:	ting.wang.hz@tcl.com
Telephone:	+86 752 2639091
Fax:	/

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

4.1 About EUT

Description:	GSM/UMTS/LTE/NR Mobile phone
Model name:	Smartphone
Tested Band:	GSM 850/1900 WCDMA B2/4/5 LTE Band 2/4/5/12/25/26/41/66/71 5GNR n25/41/66/71 BT, Wi-Fi2.4G/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)
	699 – 716 MHz (LTE Band 12)
	1850 – 1915 MHz(LTE Band 25)
	814 – 849 MHz (LTE Band 26)
	2496 – 2690 MHz (LTE Band 41)
	1710 – 1780 MHz (LTE Band 66)
	665.5 – 695.5 MHz (LTE Band 71)
	1850 – 1915 MHz(n25)
	2496 – 2690 MHz (n41)
	1710– 1780 MHz (n66)
	663 – 698 MHz (n71)
	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)
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	016604000006511/016604000006529	03	vBCSH
EUT2	016604000207036/016604000207044	03	vBCSH
EUT3	016604000206871/016604000206889	03	vBCSH
EUT4	016604000207010/016604000207028	03	vBCSH

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

Note: It is performed to test SAR with the EUT1~2 and conducted power with the EUT3~4.

4.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN	Manufacturer
AE1	Battery	CAC4900007C7	/	VEKEN
AE2	Battery	CAC4900033C9	/	FENGHUA

*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 D01SAR measurement 100 MHz to 6 GHz v01r04: SAR Measurement Requirements for 100 MHz to 6 GHz.

KDB865664 D02RF Exposure Reporting v01r02: RF Exposure Compliance Reporting and Documentation Considerations

6 Specific Absorption Rate (SAR)

6.1 Introduction

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

6.2 SAR Definition

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

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

SAR is expressed in units of Watts per kilogram (W/kg)
SAR measurement can be either related to the temperature elevation in tissue by

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

Where: C is the specific 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

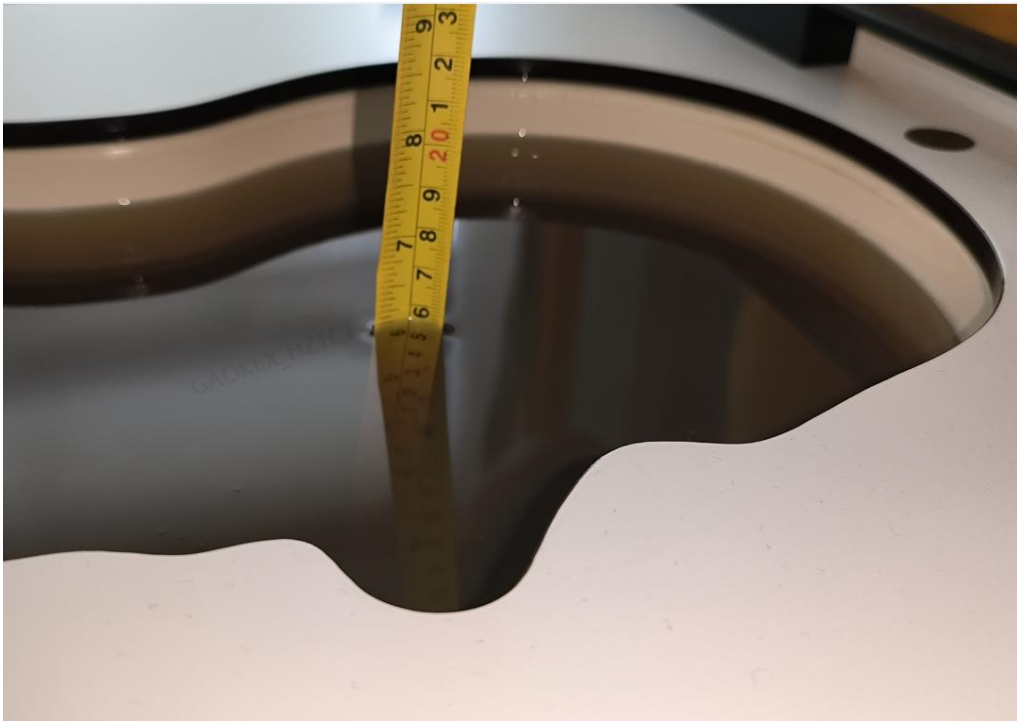
Frequency(MHz)	Liquid Type	Conductivity(σ)	± 5%Range	Permittivity(ε)	± 5%Range
750	Head	0.89	0.85～0.93	41.94	39.8～44.0
835	Head	0.90	0.86～0.95	41.5	39.4～43.6
1750	Head	1.37	1.30～1.44	40.08	38.1～42.1
1900	Head	1.40	1.33～1.47	40.00	38.00～42.00
2450	Head	1.80	1.71～1.89	39.20	37.30～41.10
2600	Head	1.96	1.86～2.06	39.01	37.06～40.96
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

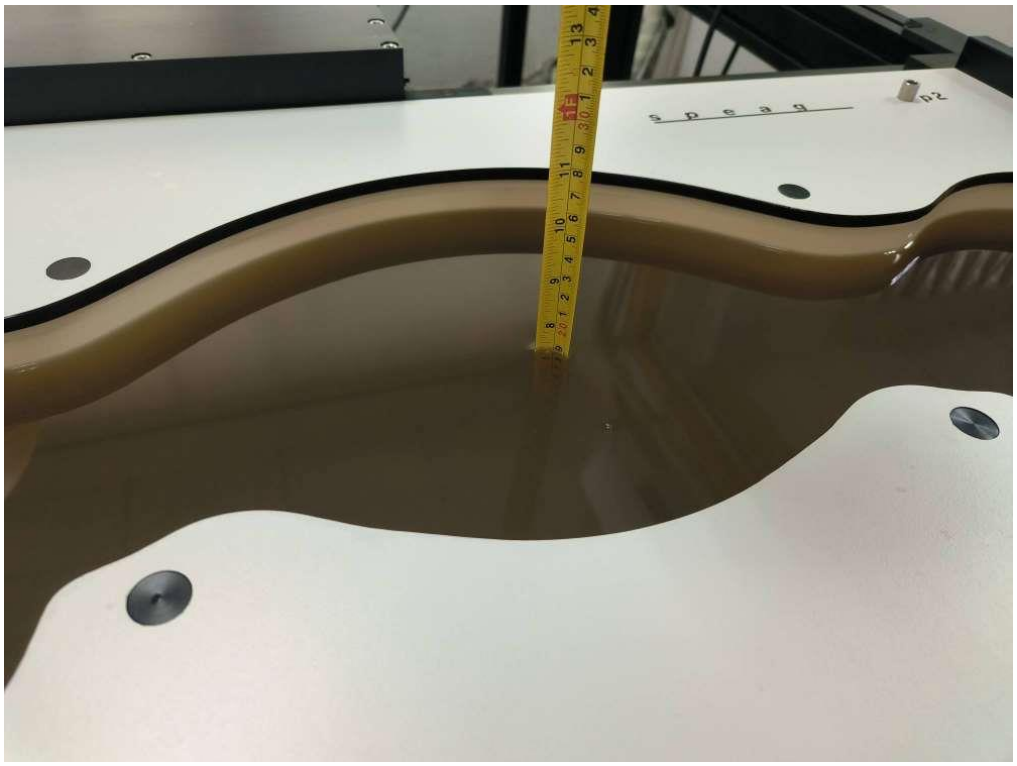
Table 7.2: Dielectric Performance of Tissue Simulating Liquid

Measurement Date yyyy/mm/dd	Frequency	Type	Permittivity ε	Drift	Conductivity σ (S/m)	Drift
2024/12/9	750 MHz	Head	43.35	3.36	0.905	1.69
2024/12/6	835 MHz	Head	43.08	3.81	0.935	3.89
2024/12/8	1750 MHz	Head	41.28	2.99	1.366	-0.29
2024/12/7	1900 MHz	Head	41.16	2.90	1.454	3.86
2024/12/30	2450 MHz	Head	40.08	2.24	1.836	2.00
2024/12/12	2600 MHz	Head	40.12	2.85	1.949	-0.56
2025/1/5	5250 MHz	Head	35.56	-1.03	4.484	-4.80
2025/1/5	5600 MHz	Head	34.99	-1.52	4.867	-4.00
2025/1/5	5750 MHz	Head	34.73	-1.78	5.045	-3.35

Note: The liquid temperature is 22.0℃



Picture 7.1: Liquid depth in the Head Phantom

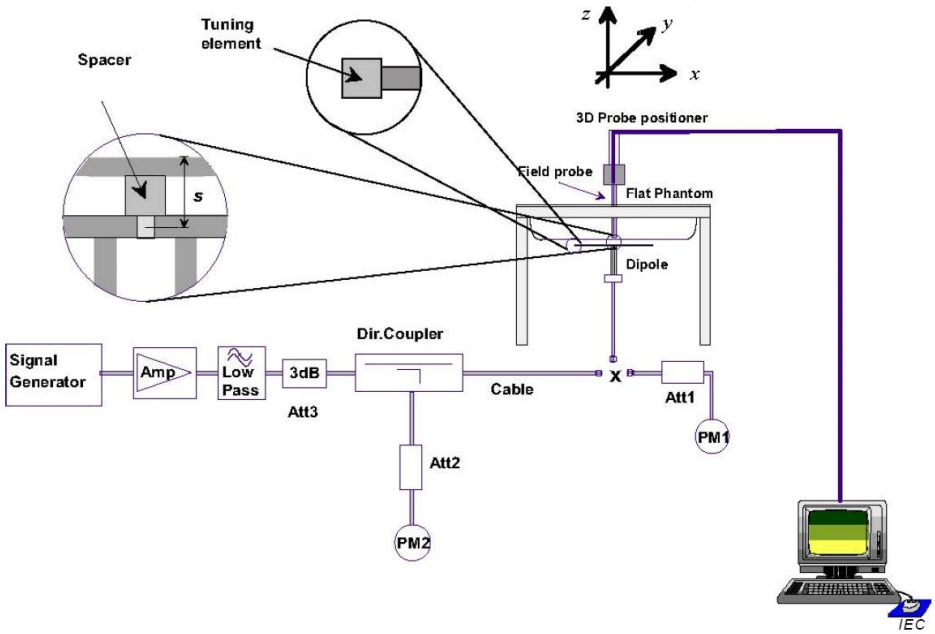


Picture 7.2 Liquid depth in the Flat Phantom

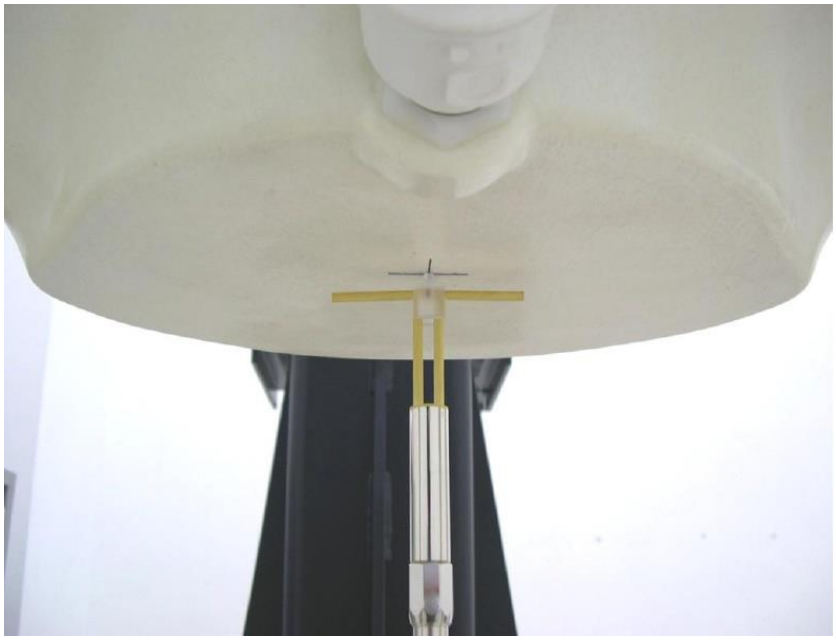
8 System verification

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. The details are presented in annex B.

Table 8.1: System Verification of Head

Measurement Date	Frequency	Target value (W/kg)		Measured value (W/kg)		Deviation	
(yyyy-mm-dd)		10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average
2024/12/9	750 MHz	5.53	8.52	5.56	8.44	0.54%	-0.94%
2024/12/6	835 MHz	6.09	9.47	6.24	9.56	2.46%	0.95%
2024/12/8	1750 MHz	19.8	37.2	19.6	37.1	-0.81%	-0.32%
2024/12/7	1900 MHz	20.6	39.1	20.8	39.8	1.17%	1.89%
2024/12/30	2450 MHz	24.5	52.2	25.6	54.4	4.33%	4.21%
2024/12/12	2600 MHz	24.8	54.9	25.5	55.6	2.74%	1.28%
2025/1/5	5250 MHz	22.4	78.3	23.6	80.7	5.36%	3.07%
2025/1/5	5600 MHz	23.2	81.7	24.5	84.1	5.60%	2.94%
2025/1/5	5750 MHz	22.8	79.9	22.5	79.5	-1.32%	-0.50%

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.

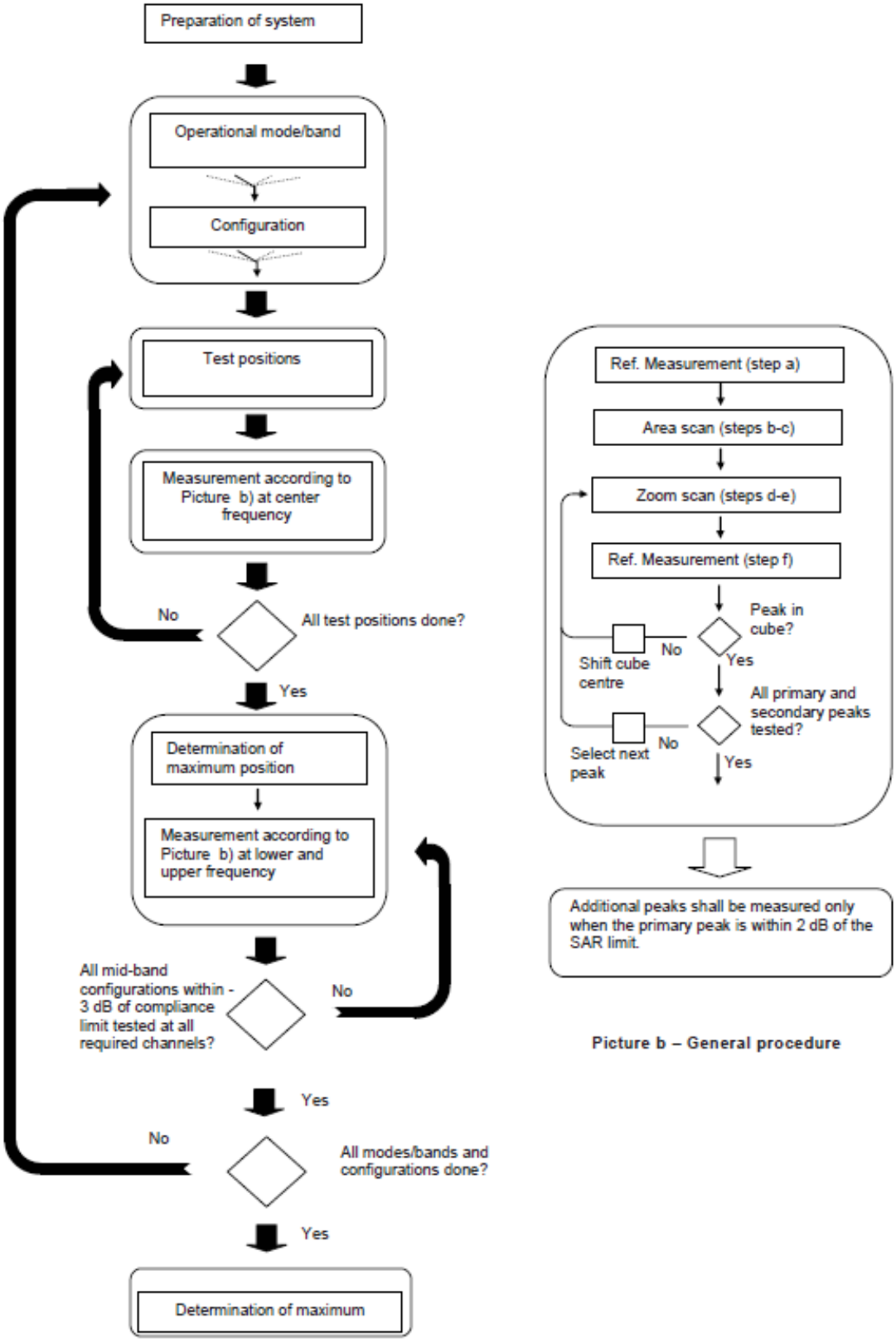
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band (f_c) for:

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 a – Tests to be performed

Picture b – General procedure

Picture 9.1Block 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.

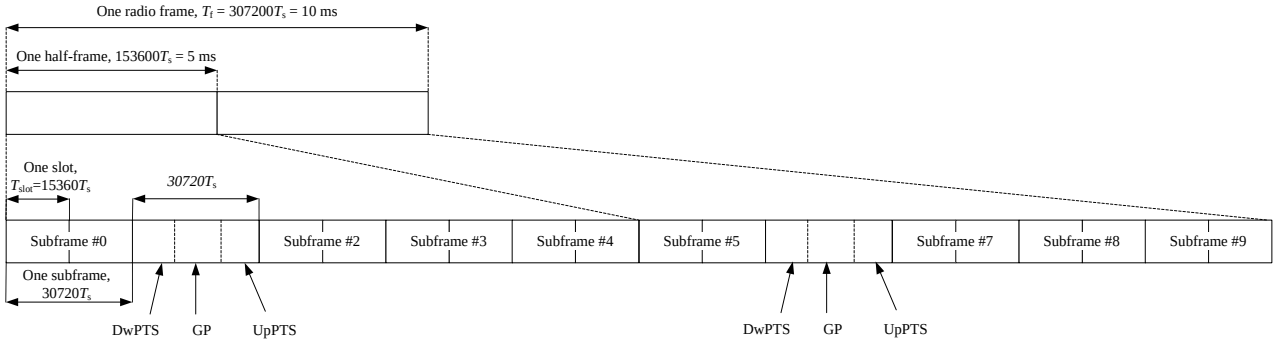


Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)

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 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 (See Annex B). When all the SAR results for each exposure condition in a frequency band and wireless mode are based on estimated 1-g SAR, the 1-g SAR for the highest SAR configuration must be determined by a zoom scan.

10.2 Fast SAR Algorithms

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

In the initial study, an approximation algorithm based on Linear fit was developed. The accuracy of the algorithm has been demonstrated across a broad frequency range (136-2450 MHz)and for both 1- and 10-g averaged SAR using a sample of 264 SAR measurements from 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

Table 11.1: Summary of Receiver detection mechanism-Main antenna

Antenna	Receiver on (Standalone)	Receiver off+ Hotspot off	Receiver off+ Hotspot on
Main Antenna	Power Level A1	Power Level B1	Power Level C1

11.1 GSM Measurement result

GSM850 ANT1(Power Level A1/B1/C1)

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	33.61	33.66	33.70	33.30	/	/	/	/
GSM 850 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	31.99	32.57	32.56	33.30	-9.03	22.96	23.54	23.53
2 Txslots	29.29	29.39	29.39	30.50	-6.02	23.27	23.37	23.37
3 Txslots	27.64	27.76	27.79	28.50	-4.26	23.38	23.50	23.53
4 Txslots	26.41	26.57	26.60	27.50	-3.01	23.40	23.56	23.59
GSM 850 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	31.92	32.52	32.52	33.30	-9.03	22.89	23.49	23.49
2 Txslots	29.26	29.36	29.35	30.50	-6.02	23.24	23.34	23.33
3 Txslots	27.61	27.73	27.75	28.50	-4.26	23.35	23.47	23.49
4 Txslots	26.40	26.53	26.56	27.50	-3.01	23.39	23.52	23.55
GSM 850 EGPRS (8PSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	24.53	24.70	24.69	26.50	-9.03	15.50	15.67	15.66
2 Txslots	23.50	23.66	23.64	24.50	-6.02	17.48	17.64	17.62
3Txslots	21.87	22.02	22.00	23.00	-4.26	17.61	17.76	17.74
4 Txslots	20.97	20.95	20.80	21.00	-3.01	17.96	17.94	17.79

GSM1900 ANT1(Power Level A1)

PCS1900 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	31.68	31.35	31.22	32.00	/	/	/	/
PCS1900 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	30.45	30.74	30.85	32.00	-9.03	21.42	21.71	21.82
2 Txslots	27.74	27.94	28.14	28.50	-6.02	21.72	21.92	22.12
3 Txslots	26.57	26.78	26.98	27.50	-4.26	22.31	22.52	22.72
4 Txslots	24.83	25.23	25.44	26.00	-3.01	21.82	22.22	22.43
PCS1900 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	30.02	30.31	30.42	32.00	-9.03	20.99	21.28	21.39
2 Txslots	27.61	27.82	28.04	28.50	-6.02	21.59	21.80	22.02
3 Txslots	26.48	26.71	26.93	27.50	-4.26	22.22	22.45	22.67
4 Txslots	24.75	25.19	25.44	26.00	-3.01	21.74	22.18	22.43
PCS1900 EGPRS (8PSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	25.04	25.05	25.27	26.50	-9.03	16.01	16.02	16.24
2 Txslots	23.52	23.44	23.65	24.50	-6.02	17.50	17.42	17.63
3Txslots	22.30	22.31	22.59	23.50	-4.26	18.04	18.05	18.33
4 Txslots	20.62	20.62	20.90	21.50	-3.01	17.61	17.61	17.89

GSM1900 ANT1(Power Level B1)

PCS1900 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	27.83	27.94	28.15	28.80	-9.03	18.80	18.91	19.12
2 Txslots	25.07	25.40	25.63	27.00	-6.02	19.05	19.38	19.61
3 Txslots	23.77	23.99	24.21	25.00	-4.26	19.51	19.73	19.95
4 Txslots	23.45	23.66	23.28	24.00	-3.01	20.44	20.65	20.27
PCS1900 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	27.67	28.05	28.04	28.80	-9.03	18.64	19.02	19.01
2 Txslots	25.15	25.56	25.77	27.00	-6.02	19.13	19.54	19.75
3 Txslots	23.74	24.15	24.11	25.00	-4.26	19.48	19.89	19.85
4 Txslots	23.63	23.65	23.26	24.00	-3.01	20.62	20.64	20.25
PCS1900 EGPRS (8PSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	22.19	22.17	22.33	23.50	-9.03	13.16	13.14	13.30
2 Txslots	20.43	20.42	20.77	21.50	-6.02	14.41	14.40	14.75
3Txslots	20.18	20.27	20.52	21.50	-4.26	15.92	16.01	16.26
4 Txslots	19.03	19.11	19.30	20.50	-3.01	16.02	16.10	16.29

GSM1900 ANT1(Power Level C1)

PCS1900 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	26.44	26.87	26.91	27.30	-9.03	17.41	17.84	17.88
2 Txslots	23.62	23.85	23.97	25.00	-6.02	17.60	17.83	17.95
3 Txslots	22.95	22.96	22.78	24.00	-4.26	18.69	18.70	18.52
4 Txslots	22.29	22.45	22.68	23.00	-3.01	19.28	19.44	19.67
PCS1900 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	26.42	26.84	26.87	27.30	-9.03	17.39	17.81	17.84
2 Txslots	23.57	23.81	23.96	25.00	-6.02	17.55	17.79	17.94
3 Txslots	22.95	22.94	22.77	24.00	-4.26	18.69	18.68	18.51
4 Txslots	22.19	22.42	22.67	23.00	-3.01	19.18	19.41	19.66
PCS1900 EGPRS (8PSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	21.01	21.12	21.28	22.50	-9.03	11.98	12.09	12.25
2 Txslots	19.60	19.81	19.99	21.00	-6.02	13.58	13.79	13.97
3Txslots	19.43	19.67	19.83	20.00	-4.26	15.17	15.41	15.57
4 Txslots	17.70	17.88	18.04	19.00	-3.01	14.69	14.87	15.03

11.2 WCDMA Measurement result

WCDMA850 ANT0(Power Level A1/B1/C1)

Item	band	FDDV result			
	ARFCN	4233 (846.6MHz)	4183 (836.6MHz)	4132 (826.4MHz)	Tune up
WCDMA	\	22.81	22.87	22.78	24.00
HSUPA	1	21.32	21.27	21.39	21.50
	2	19.96	20.01	19.94	21.50
	3	20.88	20.93	20.85	22.50
	4	19.80	19.85	19.78	21.00
	5	21.93	21.98	21.90	22.00
HSPA+	\	21.44	21.49	21.41	22.50
DC-HSDPA	1	21.92	21.97	21.89	22.00
	2	21.93	21.98	21.90	22.00
	3	21.41	21.46	21.38	21.50
	4	21.38	21.43	21.35	21.50

WCDMA1700 ANT1(Power Level A1)

Item	band	FDDIV result			
	ARFCN	1513 (1752.6MHz)	1412 (1732.4MHz)	1312 (1712.4MHz)	Tune up
WCDMA	\	22.91	22.83	22.89	24.50
HSUPA	1	22.06	21.98	22.04	23.50
	2	20.09	20.02	20.07	21.50
	3	21.00	20.93	20.98	22.50
	4	20.00	19.93	19.98	21.50
	5	22.04	21.96	22.02	23.00
HSPA+	\	21.61	21.54	21.59	23.50
DC-HSDPA	1	22.02	21.94	22.00	23.50
	2	22.05	21.97	22.03	23.50
	3	21.61	21.54	21.59	23.00
	4	21.51	21.44	21.49	22.00

WCDMA1700 ANT1(Power Level B1)

Item	band	FDDIV result			
	ARFCN	1513 (1752.6MHz)	1412 (1732.4MHz)	1312 (1712.4MHz)	Tune up
WCDMA	\	20.93	20.89	20.79	21.50
HSUPA	1	20.15	20.08	20.14	20.50
	2	18.56	18.59	18.62	20.50
	3	19.19	19.12	19.17	20.50
	4	18.27	18.21	18.25	19.50
	5	20.14	20.06	20.12	21.00
HSPA+	\	19.74	19.68	19.72	21.00
DC-HSDPA	1	20.12	20.04	20.10	20.50
	2	20.14	20.07	20.13	21.00
	3	19.74	19.68	19.72	20.50
	4	19.65	19.59	19.63	20.50

WCDMA1700 ANT1(Power Level C1)

Item	band	FDDIV result			
	ARFCN	1513 (1752.6MHz)	1412 (1732.4MHz)	1312 (1712.4MHz)	Tune up
WCDMA	\	19.91	19.88	19.83	20.50
HSUPA	1	19.17	19.10	19.15	19.50
	2	17.46	17.40	17.44	19.00
	3	18.25	18.19	18.23	19.00
	4	17.38	17.32	17.36	19.00
	5	19.15	19.08	19.14	20.00
HSPA+	\	18.78	18.72	18.76	20.50
DC-HSDPA	1	19.14	19.07	19.12	20.00
	2	19.16	19.09	19.15	20.00
	3	18.78	18.72	18.76	20.00
	4	18.69	18.63	18.68	20.00

WCDMA1900 ANT1(Power Level A1)

Item	band	FDDII result			
	ARFCN	9538 (1907.6MHz)	9400 (1880MHz)	9262 (1852.4MHz)	Tune up
WCDMA	\	23.10	23.18	23.11	24.50
HSUPA	1	22.11	22.18	22.12	23.00
	2	20.61	20.68	20.62	22.50
	3	21.75	21.82	21.76	23.50
	4	20.12	20.19	20.13	21.50
	5	21.99	22.06	22.00	23.50
DC-HSDPA	1	21.62	21.69	21.63	23.50
	2	22.10	22.17	22.11	23.50
	3	22.05	22.12	22.06	23.50
	4	21.59	21.66	21.60	23.00

WCDMA1900 ANT1(Power Level B1)

Item	band	FDDII result			
	ARFCN	9538 (1907.6MHz)	9400 (1880MHz)	9262 (1852.4MHz)	Tune up
WCDMA	\	20.99	20.99	20.96	21.50
HSUPA	1	20.09	20.15	20.10	21.00
	2	1904	19.08	19.05	21.00
	3	19.77	19.84	19.78	21.50
	4	18.28	18.35	18.29	20.00
	5	19.98	20.04	19.99	21.00
DC-HSDPA	1	20.25	20.31	20.25	22.00
	2	20.08	20.14	20.09	21.50
	3	20.04	20.10	20.04	21.50
	4	19.62	19.68	19.63	21.00

WCDMA1900 ANT1(Power Level C1)

Item	band	FDDII result			
	ARFCN	9538 (1907.6MHz)	9400 (1880MHz)	9262 (1852.4MHz)	Tune up
WCDMA	\	20.03	20.04	20.05	21.00
HSUPA	1	19.17	19.23	19.18	19.50
	2	17.76	17.82	17.77	19.50
	3	18.75	18.81	18.75	20.50
	4	17.45	17.51	17.45	18.50
	5	19.07	19.13	19.08	20.00
DC-HSDPA	1	18.75	18.81	18.76	20.50
	2	19.16	19.22	19.17	20.50
	3	19.12	19.18	19.13	20.50
	4	18.72	18.78	18.73	20.00

11.3 LTE Measurement result

Maximum Target Power for Production Unit

Band	Tune up (dBm)		
	Power Level A1	Power Level B1	Power Level C1
LTEB2 ANT1	25	22	21
LTEB4 ANT1	25	22	21
LTEB5 ANT0	24.5	24.5	24.5
LTEB12 ANT0	25	25	25
LTEB25 ANT1	25	22	21
LTEB26 ANT0	24.5	24.5	24.5
LTEB41-PC2 ANT1	27	24.5	23.5
LTEB41-PC3 ANT1	24.5	22	21
LTEB66 ANT1	25	22	21
LTEB77 ANT1	24	24	24

Maximum Power Reduction (MPR) for LTE

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	3
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	3
256 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	5
256 QAM	> 5	> 4	> 8	> 12	> 16	> 18	5

LTE Band12 ANT0 (Power Level A1/B1/C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	715.3 (23173)	24.07	23.54	22.26	19.55
		707.5 (23095)	24.04	23.62	22.53	19.75
		699.7 (23017)	24.04	23.64	22.46	19.72
	1RB-Middle (3)	715.3 (23173)	24.08	23.44	22.54	19.73
		707.5 (23095)	24.06	23.62	22.20	19.71
		699.7 (23017)	24.13	23.64	22.38	19.71
	1RB-Low (0)	715.3 (23173)	24.08	23.36	22.29	19.69
		707.5 (23095)	24.04	23.47	22.43	19.66
		699.7 (23017)	24.08	23.38	22.28	19.24
	3RB-High (3)	715.3 (23173)	24.08	23.29	22.22	19.62
		707.5 (23095)	24.08	23.38	22.30	19.49
		699.7 (23017)	24.15	23.20	22.37	19.57
	3RB-Middle (1)	715.3 (23173)	24.12	23.20	22.32	19.23
		707.5 (23095)	24.15	23.11	22.27	19.62
		699.7 (23017)	24.22	23.33	22.45	19.40
	3RB-Low (0)	715.3 (23173)	24.08	23.23	22.22	19.26
		707.5 (23095)	24.15	23.22	22.23	19.52
		699.7 (23017)	24.19	23.24	22.35	19.71
	6RB (0)	715.3 (23173)	23.10	22.24	21.13	19.61
		707.5 (23095)	23.16	22.10	21.18	19.50
		699.7 (23017)	23.19	22.21	21.21	19.59
3MHz	1RB-High (14)	714.5 (23165)	23.96	23.36	22.17	19.70
		707.5 (23095)	24.08	23.36	22.27	19.24
		700.5 (23025)	24.06	23.34	22.45	19.27
	1RB-Middle (7)	714.5 (23165)	24.10	23.59	22.34	19.26
		707.5 (23095)	24.07	23.56	22.44	19.62
		700.5 (23025)	24.24	23.54	22.44	19.60
	1RB-Low (0)	714.5 (23165)	24.03	23.24	22.35	19.75
		707.5 (23095)	24.13	23.50	22.55	19.66
		700.5 (23025)	24.09	23.35	22.33	19.62
	8RB-High (7)	714.5 (23165)	23.15	22.26	21.13	19.47
		707.5 (23095)	23.20	22.32	21.23	19.39
		700.5 (23025)	23.22	22.45	21.26	19.47
	8RB-Middle (4)	714.5 (23165)	23.03	22.15	21.14	19.71
		707.5 (23095)	23.19	22.27	21.25	19.56
		700.5 (23025)	23.20	22.21	21.25	19.60
	8RB-Low (0)	714.5 (23165)	23.13	22.17	21.22	19.43
		707.5 (23095)	23.13	22.21	21.19	19.31
		700.5 (23025)	23.29	22.32	21.32	19.56
	15RB (0)	714.5 (23165)	23.07	22.10	21.13	19.63
		707.5 (23095)	23.11	22.09	21.17	19.53
		700.5 (23025)	23.26	22.25	21.17	19.37

5MHz	1RB-High (24)	713.5 (23155)	24.07	23.46	22.30	19.42
		707.5 (23095)	24.18	23.65	22.38	19.57
		701.5 (23035)	24.04	23.32	22.12	19.46
	1RB-Middle (12)	713.5 (23155)	24.09	23.40	22.26	19.27
		707.5 (23095)	24.08	23.50	22.54	19.63
		701.5 (23035)	24.19	23.54	22.33	19.50
	1RB-Low (0)	713.5 (23155)	24.07	23.48	22.48	19.36
		707.5 (23095)	24.11	23.40	22.49	19.63
		701.5 (23035)	24.14	23.51	22.47	19.59
	12RB-High (13)	713.5 (23155)	23.19	22.22	21.17	19.75
		707.5 (23095)	23.20	22.22	21.30	19.24
		701.5 (23035)	23.17	22.23	21.22	19.66
	12RB-Middle (6)	713.5 (23155)	23.16	22.12	21.19	19.71
		707.5 (23095)	23.13	22.18	21.18	19.47
		701.5 (23035)	23.27	22.26	21.32	19.56
	12RB-Low (0)	713.5 (23155)	23.09	22.17	21.15	19.73
		707.5 (23095)	23.18	22.22	21.21	19.74
		701.5 (23035)	23.18	22.28	21.25	19.58
	25RB (0)	713.5 (23155)	23.12	22.20	21.14	19.33
		707.5 (23095)	23.17	22.14	21.13	19.50
		701.5 (23035)	23.21	22.30	21.28	19.70
10MHz	1RB-High (49)	711 (23130)	24.01	23.44	22.26	19.68
		707.5 (23095)	24.04	23.43	22.41	19.65
		704 (23060)	24.07	23.32	22.24	19.21
	1RB-Middle (24)	711 (23130)	24.13	23.36	22.34	19.62
		707.5 (23095)	24.14	23.49	22.47	19.38
		704 (23060)	24.20	23.51	22.60	19.39
	1RB-Low (0)	711 (23130)	24.05	23.48	22.46	19.27
		707.5 (23095)	24.14	23.45	22.64	19.57
		704 (23060)	24.36	23.56	22.29	19.37
	25RB-High (25)	711 (23130)	23.17	22.12	21.25	19.66
		707.5 (23095)	23.19	22.20	21.25	19.67
		704 (23060)	23.21	22.17	21.23	19.61
	25RB-Middle (12)	711 (23130)	23.20	22.28	21.32	19.67
		707.5 (23095)	23.25	22.19	21.26	19.26
		704 (23060)	23.27	22.32	21.28	19.54
	25RB-Low (0)	711 (23130)	23.16	22.21	21.20	19.75
		707.5 (23095)	23.16	22.28	21.18	19.46
		704 (23060)	23.24	22.19	21.27	19.27
	50RB (0)	711 (23130)	23.28	22.24	21.23	19.63
		707.5 (23095)	23.18	22.16	21.35	19.40
		704 (23060)	23.26	22.28	21.29	19.54

LTE Band25 ANT1 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	23.76	22.72	22.12	18.77
		1882.5 (26365)	23.50	22.92	21.87	18.83
		1850.7 (26047)	23.75	22.93	22.03	18.54
	1RB-Middle (3)	1914.3 (26683)	23.64	22.84	21.92	18.57
		1882.5 (26365)	23.57	22.96	21.80	18.74
		1850.7 (26047)	23.80	23.11	22.02	18.71
	1RB-Low (0)	1914.3 (26683)	23.33	22.77	21.76	18.80
		1882.5 (26365)	23.61	22.80	21.63	18.65
		1850.7 (26047)	23.83	23.09	21.91	18.81
	3RB-High (3)	1914.3 (26683)	23.67	22.64	21.83	18.47
		1882.5 (26365)	23.55	22.72	21.66	18.65
		1850.7 (26047)	23.70	22.76	21.90	18.64
	3RB-Middle (1)	1914.3 (26683)	23.56	22.57	21.78	18.59
		1882.5 (26365)	23.59	22.71	21.62	18.76
		1850.7 (26047)	23.81	22.80	22.03	18.66
	3RB-Low (0)	1914.3 (26683)	23.54	22.53	21.76	18.62
		1882.5 (26365)	23.58	22.86	21.82	18.72
		1850.7 (26047)	23.82	22.95	21.92	18.71
	6RB (0)	1914.3 (26683)	22.62	21.62	20.72	18.73
		1882.5 (26365)	22.52	21.60	20.64	18.54
		1850.7 (26047)	22.65	21.72	20.76	18.42
3MHz	1RB-High (14)	1913.5 (26675)	23.62	22.76	21.86	18.42
		1882.5 (26365)	23.55	22.76	21.63	18.41
		1851.5 (26055)	23.64	22.88	21.82	18.69
	1RB-Middle (7)	1913.5 (26675)	23.35	22.59	21.62	18.72
		1882.5 (26365)	23.69	23.01	21.76	18.75
		1851.5 (26055)	23.71	23.08	22.17	18.81
	1RB-Low (0)	1913.5 (26675)	23.34	22.18	21.11	18.90
		1882.5 (26365)	23.57	22.82	21.86	18.68
		1851.5 (26055)	23.76	23.16	22.07	18.60
	8RB-High (7)	1913.5 (26675)	22.57	21.63	20.71	18.81
		1882.5 (26365)	22.62	21.68	20.66	18.40
		1851.5 (26055)	22.70	21.73	20.85	18.45
	8RB-Middle (4)	1913.5 (26675)	22.37	21.41	20.50	18.76
		1882.5 (26365)	22.64	21.75	20.74	18.83
		1851.5 (26055)	22.71	21.80	20.90	18.66
	8RB-Low (0)	1913.5 (26675)	22.17	21.26	20.29	18.44
		1882.5 (26365)	22.67	21.71	20.72	18.41
		1851.5 (26055)	22.80	21.79	20.90	18.68
	15RB (0)	1913.5 (26675)	22.36	21.38	20.51	18.64
		1882.5 (26365)	22.62	21.67	20.72	18.48
		1851.5 (26055)	22.75	21.74	20.86	18.65

5MHz	1RB-High (24)	1912.5 (26665)	23.69	22.83	21.94	18.49
		1882.5 (26365)	23.57	22.88	21.82	18.67
		1852.5 (26065)	23.58	22.87	21.95	18.41
	1RB-Middle (12)	1912.5 (26665)	23.14	22.56	21.54	18.76
		1882.5 (26365)	23.55	22.91	21.89	18.77
		1852.5 (26065)	23.74	22.91	22.00	18.72
	1RB-Low (0)	1912.5 (26665)	23.71	22.04	21.05	18.90
		1882.5 (26365)	23.57	23.06	21.87	18.86
		1852.5 (26065)	23.72	22.88	22.20	18.89
	12RB-High (13)	1912.5 (26665)	22.44	21.48	20.52	18.66
		1882.5 (26365)	22.61	21.64	20.74	18.45
		1852.5 (26065)	22.63	21.68	20.82	18.40
	12RB-Middle (6)	1912.5 (26665)	22.04	21.13	20.12	18.47
		1882.5 (26365)	22.61	21.66	20.67	18.52
		1852.5 (26065)	22.76	21.81	20.99	18.90
	12RB-Low (0)	1912.5 (26665)	22.65	21.52	20.03	18.55
		1882.5 (26365)	22.76	21.70	20.71	18.54
		1852.5 (26065)	22.80	21.76	21.02	18.88
	25RB (0)	1912.5 (26665)	22.04	21.16	20.19	18.83
		1882.5 (26365)	22.69	21.73	20.75	18.71
		1852.5 (26065)	22.74	21.69	20.75	18.50
10MHz	1RB-High (49)	1910 (26640)	23.45	22.92	21.79	18.52
		1882.5 (26365)	23.50	22.87	21.61	18.42
		1855 (26090)	23.55	22.82	21.98	18.80
	1RB-Middle (24)	1910 (26640)	23.47	22.94	21.32	18.69
		1882.5 (26365)	23.60	22.91	21.92	18.49
		1855 (26090)	23.63	23.07	21.87	18.77
	1RB-Low (0)	1910 (26640)	23.40	22.49	21.31	18.41
		1882.5 (26365)	23.68	23.16	21.94	18.67
		1855 (26090)	23.73	23.01	22.14	18.57
	25RB-High (25)	1910 (26640)	22.14	21.10	20.12	18.40
		1882.5 (26365)	22.72	21.60	20.74	18.87
		1855 (26090)	22.58	21.59	20.72	18.76
	25RB-Middle (12)	1910 (26640)	22.66	21.72	20.36	18.63
		1882.5 (26365)	22.74	21.69	20.87	18.74
		1855 (26090)	22.73	21.73	20.80	18.72
	25RB-Low (0)	1910 (26640)	22.61	21.58	20.66	18.77
		1882.5 (26365)	22.69	21.77	20.81	18.84
		1855 (26090)	22.74	21.75	20.87	18.78
	50RB (0)	1910 (26640)	22.42	21.89	20.01	18.66
		1882.5 (26365)	22.63	21.61	20.77	18.73
		1855 (26090)	22.57	21.71	20.76	18.89

15MHz	1RB-High (74)	1907.5 (26615)	23.28	22.82	21.70	18.57
		1882.5 (26365)	23.31	22.66	21.54	18.76
		1857.5 (26115)	23.25	22.51	21.65	18.47
	1RB-Middle (37)	1907.5 (26615)	23.25	22.47	21.65	18.80
		1882.5 (26365)	23.28	22.83	21.73	18.79
		1857.5 (26115)	23.34	22.75	21.47	18.65
	1RB-Low (0)	1907.5 (26615)	23.43	22.79	21.86	18.45
		1882.5 (26365)	23.58	22.97	21.97	18.88
		1857.5 (26115)	23.37	22.89	21.65	18.80
	36RB-High (38)	1907.5 (26615)	22.56	21.59	20.73	18.77
		1882.5 (26365)	22.22	21.46	20.26	18.65
		1857.5 (26115)	22.34	21.43	20.50	18.71
	36RB-Middle (19)	1907.5 (26615)	22.27	21.26	20.48	18.85
		1882.5 (26365)	22.56	21.53	20.35	18.85
		1857.5 (26115)	22.41	21.48	20.53	18.45
	36RB-Low (0)	1907.5 (26615)	22.26	21.40	20.44	18.85
		1882.5 (26365)	22.61	21.62	20.53	18.68
		1857.5 (26115)	22.50	21.37	20.52	18.53
	75RB (0)	1907.5 (26615)	22.40	21.54	20.64	18.89
		1882.5 (26365)	22.56	21.57	20.54	18.68
		1857.5 (26115)	22.36	21.36	20.55	18.69
20MHz	1RB-High (99)	1905 (26590)	23.15	22.52	21.64	18.78
		1882.5 (26365)	23.01	22.52	21.47	18.49
		1860 (26140)	23.42	22.82	21.70	18.77
	1RB-Middle (50)	1905 (26590)	23.28	22.68	21.73	18.45
		1882.5 (26365)	23.48	22.68	21.58	18.86
		1860 (26140)	23.38	22.54	21.59	18.56
	1RB-Low (0)	1905 (26590)	23.82	22.12	21.22	18.86
		1882.5 (26365)	23.46	22.87	21.62	18.50
		1860 (26140)	23.50	22.91	21.98	18.88
	50RB-High (50)	1905 (26590)	22.52	21.56	20.75	18.69
		1882.5 (26365)	22.31	21.46	20.46	18.53
		1860 (26140)	22.37	21.42	20.46	18.56
	50RB-Middle (25)	1905 (26590)	22.33	21.43	20.62	18.41
		1882.5 (26365)	22.51	21.45	20.62	18.89
		1860 (26140)	22.34	21.37	20.50	18.81
	50RB-Low (0)	1905 (26590)	22.52	21.51	20.62	18.70
		1882.5 (26365)	22.47	21.58	20.55	18.44
		1860 (26140)	22.46	21.27	20.46	18.85
	100RB (0)	1905 (26590)	22.65	21.62	20.72	18.45
		1882.5 (26365)	22.43	21.45	20.49	18.78
		1860 (26140)	22.41	21.39	20.45	18.80

LTE Band25 ANT1 (Power Level B1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	21.37	21.71	21.70	18.62
		1882.5 (26365)	21.31	21.55	21.60	18.79
		1850.7 (26047)	21.52	21.81	21.50	18.36
	1RB-Middle (3)	1914.3 (26683)	21.34	21.87	21.58	18.47
		1882.5 (26365)	21.26	21.59	21.38	18.44
		1850.7 (26047)	21.51	21.81	21.62	18.69
	1RB-Low (0)	1914.3 (26683)	21.16	21.53	21.38	18.44
		1882.5 (26365)	21.38	21.84	21.48	18.46
		1850.7 (26047)	21.54	21.87	21.56	18.70
	3RB-High (3)	1914.3 (26683)	21.46	21.64	21.50	18.37
		1882.5 (26365)	21.32	21.39	21.42	18.62
		1850.7 (26047)	21.59	21.68	21.53	18.62
	3RB-Middle (1)	1914.3 (26683)	21.38	21.51	21.38	18.56
		1882.5 (26365)	21.38	21.44	21.42	18.79
		1850.7 (26047)	21.52	21.77	21.63	18.62
	3RB-Low (0)	1914.3 (26683)	21.36	21.45	21.41	18.59
		1882.5 (26365)	21.31	21.58	21.49	18.51
		1850.7 (26047)	21.61	21.68	21.69	18.55
	6RB (0)	1914.3 (26683)	21.39	21.38	21.31	18.58
		1882.5 (26365)	21.26	21.37	21.42	18.37
		1850.7 (26047)	21.50	21.55	21.48	18.52
3MHz	1RB-High (14)	1913.5 (26675)	21.42	21.83	21.58	18.51
		1882.5 (26365)	21.26	21.70	21.67	18.70
		1851.5 (26055)	21.45	21.66	21.56	18.70
	1RB-Middle (7)	1913.5 (26675)	21.17	21.35	21.25	18.75
		1882.5 (26365)	21.30	21.65	21.75	18.78
		1851.5 (26055)	21.61	21.80	21.85	18.66
	1RB-Low (0)	1913.5 (26675)	20.75	21.04	20.93	18.41
		1882.5 (26365)	21.35	21.74	21.63	18.68
		1851.5 (26055)	21.52	21.81	21.79	18.68
	8RB-High (7)	1913.5 (26675)	21.38	21.46	21.42	18.68
		1882.5 (26365)	21.40	21.42	21.38	18.76
		1851.5 (26055)	21.51	21.61	21.55	18.74
	8RB-Middle (4)	1913.5 (26675)	21.17	21.18	21.26	18.50
		1882.5 (26365)	21.45	21.43	21.38	18.52
		1851.5 (26055)	21.57	21.51	21.52	18.73
	8RB-Low (0)	1913.5 (26675)	20.96	21.08	21.03	18.77
		1882.5 (26365)	21.36	21.51	21.45	18.70
		1851.5 (26055)	21.60	21.69	21.69	18.50
	15RB (0)	1913.5 (26675)	21.12	21.20	21.09	18.43
		1882.5 (26365)	21.44	21.45	21.40	18.62
		1851.5 (26055)	21.56	21.62	21.58	18.64

5MHz	1RB-High (24)	1912.5 (26665)	21.48	21.79	21.70	18.69
		1882.5 (26365)	21.37	21.73	21.46	18.63
		1852.5 (26065)	21.32	21.57	21.50	18.52
	1RB-Middle (12)	1912.5 (26665)	20.89	21.18	21.06	18.45
		1882.5 (26365)	21.27	21.80	21.65	18.61
		1852.5 (26065)	21.52	21.63	21.67	18.60
	1RB-Low (0)	1912.5 (26665)	20.55	20.82	20.52	18.68
		1882.5 (26365)	21.45	21.72	21.63	18.58
		1852.5 (26065)	21.53	21.86	21.91	18.40
	12RB-High (13)	1912.5 (26665)	21.26	21.33	21.29	18.77
		1882.5 (26365)	21.52	21.51	21.54	18.41
		1852.5 (26065)	21.54	21.60	21.50	18.42
	12RB-Middle (6)	1912.5 (26665)	20.91	20.90	20.88	18.52
		1882.5 (26365)	21.43	21.48	21.46	18.80
		1852.5 (26065)	21.61	21.66	21.66	18.36
	12RB-Low (0)	1912.5 (26665)	20.75	20.75	20.73	18.43
		1882.5 (26365)	21.39	21.48	21.53	18.58
		1852.5 (26065)	21.66	21.67	21.65	18.75
	25RB (0)	1912.5 (26665)	20.90	20.90	20.96	18.68
		1882.5 (26365)	21.45	21.44	21.45	18.40
		1852.5 (26065)	21.49	21.55	21.57	18.37
10MHz	1RB-High (49)	1910 (26640)	21.35	21.65	21.50	18.35
		1882.5 (26365)	21.34	21.62	21.51	18.76
		1855 (26090)	21.45	21.72	21.51	18.36
	1RB-Middle (24)	1910 (26640)	20.52	20.80	20.45	18.65
		1882.5 (26365)	21.40	21.71	21.57	18.69
		1855 (26090)	21.43	21.76	21.62	18.79
	1RB-Low (0)	1910 (26640)	20.32	20.56	20.34	18.57
		1882.5 (26365)	21.53	21.80	21.82	18.39
		1855 (26090)	21.56	21.79	21.67	18.44
	25RB-High (25)	1910 (26640)	20.97	20.99	20.95	18.35
		1882.5 (26365)	21.38	21.51	21.56	18.44
		1855 (26090)	21.34	21.42	21.39	18.68
	25RB-Middle (12)	1910 (26640)	20.49	20.61	20.63	18.40
		1882.5 (26365)	21.51	21.49	21.46	18.58
		1855 (26090)	21.58	21.54	21.53	18.45
	25RB-Low (0)	1910 (26640)	20.42	20.45	20.41	18.65
		1882.5 (26365)	21.54	21.61	21.63	18.65
		1855 (26090)	21.57	21.62	21.62	18.80
	50RB (0)	1910 (26640)	20.77	20.69	20.67	18.39
		1882.5 (26365)	21.53	21.61	21.44	18.60
		1855 (26090)	21.47	21.48	21.47	18.43

15MHz	1RB-High (74)	1907.5 (26615)	21.04	21.39	21.13	18.69
		1882.5 (26365)	21.13	21.36	21.22	18.37
		1857.5 (26115)	21.22	21.51	21.25	18.35
	1RB-Middle (37)	1907.5 (26615)	20.07	20.39	20.37	18.77
		1882.5 (26365)	21.33	21.23	21.29	18.67
		1857.5 (26115)	21.20	21.58	21.53	18.54
	1RB-Low (0)	1907.5 (26615)	20.32	20.57	20.54	18.77
		1882.5 (26365)	21.24	21.47	21.67	18.44
		1857.5 (26115)	21.36	21.58	21.56	18.42
	36RB-High (38)	1907.5 (26615)	20.46	20.58	20.52	18.48
		1882.5 (26365)	21.12	21.27	21.17	18.60
		1857.5 (26115)	21.14	21.19	21.21	18.78
	36RB-Middle (19)	1907.5 (26615)	20.26	20.05	20.19	18.68
		1882.5 (26365)	21.22	21.34	21.27	18.51
		1857.5 (26115)	21.18	21.26	21.30	18.58
	36RB-Low (0)	1907.5 (26615)	20.31	20.08	20.19	18.68
		1882.5 (26365)	21.37	21.34	21.44	18.49
		1857.5 (26115)	21.36	21.29	21.32	18.77
	75RB (0)	1907.5 (26615)	20.32	20.27	20.28	18.48
		1882.5 (26365)	21.26	21.39	21.33	18.74
		1857.5 (26115)	21.20	21.22	21.19	18.42
20MHz	1RB-High (99)	1905 (26590)	21.06	21.31	21.13	18.65
		1882.5 (26365)	21.06	21.16	21.07	18.38
		1860 (26140)	21.24	21.75	21.41	18.57
	1RB-Middle (50)	1905 (26590)	20.15	20.48	20.50	18.53
		1882.5 (26365)	21.43	21.46	21.20	18.50
		1860 (26140)	21.22	21.19	21.54	18.66
	1RB-Low (0)	1905 (26590)	20.71	21.03	20.88	18.48
		1882.5 (26365)	21.42	21.73	21.53	18.75
		1860 (26140)	21.43	21.77	21.41	18.65
	50RB-High (50)	1905 (26590)	20.43	20.42	20.40	18.56
		1882.5 (26365)	21.27	21.33	21.09	18.67
		1860 (26140)	21.15	21.25	21.26	18.55
	50RB-Middle (25)	1905 (26590)	20.35	20.29	20.29	18.35
		1882.5 (26365)	21.25	21.30	21.21	18.71
		1860 (26140)	21.29	21.22	21.33	18.70
	50RB-Low (0)	1905 (26590)	20.34	20.39	20.39	18.60
		1882.5 (26365)	21.30	21.46	21.34	18.63
		1860 (26140)	21.37	21.34	21.25	18.65
	100RB (0)	1905 (26590)	20.55	20.38	20.49	18.49
		1882.5 (26365)	21.24	21.35	21.18	18.79
		1860 (26140)	21.22	21.25	21.27	18.79

LTE Band25 ANT1 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	20.43	20.65	20.63	18.72
		1882.5 (26365)	20.40	20.48	20.56	18.57
		1850.7 (26047)	20.53	20.73	20.51	18.50
	1RB-Middle (3)	1914.3 (26683)	20.39	20.76	20.50	18.74
		1882.5 (26365)	20.47	20.70	20.44	18.57
		1850.7 (26047)	20.61	20.86	20.74	18.51
	1RB-Low (0)	1914.3 (26683)	20.22	20.52	20.37	18.40
		1882.5 (26365)	20.47	20.69	20.43	18.80
		1850.7 (26047)	20.63	20.86	20.69	18.78
	3RB-High (3)	1914.3 (26683)	20.45	20.27	20.49	18.73
		1882.5 (26365)	20.45	20.54	20.48	18.73
		1850.7 (26047)	20.58	20.53	20.65	18.66
	3RB-Middle (1)	1914.3 (26683)	20.36	20.50	20.33	18.37
		1882.5 (26365)	20.37	20.59	20.46	18.77
		1850.7 (26047)	20.62	20.72	20.56	18.71
	3RB-Low (0)	1914.3 (26683)	20.34	20.33	20.37	18.50
		1882.5 (26365)	20.37	20.59	20.35	18.75
		1850.7 (26047)	20.61	20.60	20.63	18.54
	6RB (0)	1914.3 (26683)	20.42	19.72	20.45	18.68
		1882.5 (26365)	20.38	20.41	20.54	18.57
		1850.7 (26047)	20.57	20.64	20.57	18.70
3MHz	1RB-High (14)	1913.5 (26675)	20.48	20.81	20.59	18.62
		1882.5 (26365)	20.30	20.74	20.65	18.58
		1851.5 (26055)	20.39	20.65	20.58	18.45
	1RB-Middle (7)	1913.5 (26675)	20.17	20.37	20.19	18.72
		1882.5 (26365)	20.38	20.57	20.57	18.35
		1851.5 (26055)	20.55	20.80	20.67	18.42
	1RB-Low (0)	1913.5 (26675)	19.80	20.09	19.87	18.54
		1882.5 (26365)	20.47	20.54	20.49	18.54
		1851.5 (26055)	20.56	20.77	20.58	18.54
	8RB-High (7)	1913.5 (26675)	20.39	20.51	20.46	18.76
		1882.5 (26365)	20.46	20.49	20.49	18.45
		1851.5 (26055)	20.61	20.63	20.62	18.64
	8RB-Middle (4)	1913.5 (26675)	20.21	20.20	20.20	18.40
		1882.5 (26365)	20.52	20.58	20.55	18.51
		1851.5 (26055)	20.58	20.62	20.54	18.74
	8RB-Low (0)	1913.5 (26675)	20.05	20.09	20.05	18.59
		1882.5 (26365)	20.52	20.51	20.55	18.79
		1851.5 (26055)	20.67	20.69	20.64	18.55
	15RB (0)	1913.5 (26675)	20.22	20.26	20.26	18.40
		1882.5 (26365)	20.49	20.53	20.54	18.67
		1851.5 (26055)	20.58	20.63	20.65	18.64

5MHz	1RB-High (24)	1912.5 (26665)	20.45	20.64	20.59	18.79
		1882.5 (26365)	20.48	20.64	20.52	18.50
		1852.5 (26065)	20.43	20.87	20.46	18.35
	1RB-Middle (12)	1912.5 (26665)	19.98	20.23	20.10	18.67
		1882.5 (26365)	20.42	20.73	20.72	18.66
		1852.5 (26065)	20.61	20.84	20.77	18.57
	1RB-Low (0)	1912.5 (26665)	19.48	20.85	19.55	18.55
		1882.5 (26365)	20.52	20.80	20.67	18.46
		1852.5 (26065)	20.70	20.89	20.66	18.37
	12RB-High (13)	1912.5 (26665)	20.31	20.30	20.28	18.75
		1882.5 (26365)	20.50	20.53	20.52	18.67
		1852.5 (26065)	20.54	20.56	20.63	18.69
	12RB-Middle (6)	1912.5 (26665)	19.96	19.97	19.96	18.63
		1882.5 (26365)	20.47	20.50	20.49	18.77
		1852.5 (26065)	20.61	20.70	20.70	18.63
	12RB-Low (0)	1912.5 (26665)	19.66	19.81	19.79	18.44
		1882.5 (26365)	20.55	20.45	20.50	18.72
		1852.5 (26065)	20.67	20.75	20.76	18.44
	25RB (0)	1912.5 (26665)	20.04	19.99	19.98	18.54
		1882.5 (26365)	20.44	20.47	20.49	18.62
		1852.5 (26065)	20.50	20.59	20.45	18.45
10MHz	1RB-High (49)	1910 (26640)	20.35	20.80	20.67	18.67
		1882.5 (26365)	20.31	20.78	20.44	18.58
		1855 (26090)	20.27	20.68	20.39	18.60
	1RB-Middle (24)	1910 (26640)	19.52	19.68	19.78	18.73
		1882.5 (26365)	20.46	20.74	20.52	18.36
		1855 (26090)	20.54	20.72	20.58	18.63
	1RB-Low (0)	1910 (26640)	19.36	19.61	19.47	18.42
		1882.5 (26365)	20.53	20.89	20.57	18.78
		1855 (26090)	20.63	20.87	20.78	18.54
	25RB-High (25)	1910 (26640)	19.88	19.99	19.96	18.48
		1882.5 (26365)	20.55	20.48	20.58	18.48
		1855 (26090)	20.48	20.44	20.46	18.72
	25RB-Middle (12)	1910 (26640)	19.49	19.53	19.62	18.41
		1882.5 (26365)	20.60	20.62	20.56	18.41
		1855 (26090)	20.64	20.61	20.60	18.41
	25RB-Low (0)	1910 (26640)	19.42	19.52	19.47	18.41
		1882.5 (26365)	20.53	20.59	20.60	18.52
		1855 (26090)	20.63	20.69	20.60	18.67
	50RB (0)	1910 (26640)	19.67	19.73	19.71	18.50
		1882.5 (26365)	20.60	20.47	20.62	18.63
		1855 (26090)	20.45	20.55	20.54	18.66

15MHz	1RB-High (74)	1907.5 (26615)	20.12	20.44	20.40	18.73
		1882.5 (26365)	20.15	20.49	20.62	18.38
		1857.5 (26115)	20.22	20.59	20.68	18.71
	1RB-Middle (37)	1907.5 (26615)	19.16	19.47	19.22	18.44
		1882.5 (26365)	20.30	20.81	20.43	18.42
		1857.5 (26115)	20.29	20.56	20.35	18.59
	1RB-Low (0)	1907.5 (26615)	19.31	19.72	19.42	18.66
		1882.5 (26365)	20.29	20.72	20.33	18.50
		1857.5 (26115)	20.46	20.71	20.38	18.68
	36RB-High (38)	1907.5 (26615)	19.47	19.51	19.54	18.71
		1882.5 (26365)	20.24	20.34	20.22	18.50
		1857.5 (26115)	20.29	20.34	20.27	18.45
	36RB-Middle (19)	1907.5 (26615)	19.20	19.31	19.31	18.56
		1882.5 (26365)	20.39	20.21	20.25	18.74
		1857.5 (26115)	20.29	20.32	20.23	18.62
	36RB-Low (0)	1907.5 (26615)	19.17	19.20	19.29	18.69
		1882.5 (26365)	20.26	20.46	20.46	18.35
		1857.5 (26115)	20.39	20.30	20.41	18.72
	75RB (0)	1907.5 (26615)	19.38	19.43	19.43	18.55
		1882.5 (26365)	20.36	20.35	20.34	18.71
		1857.5 (26115)	20.28	20.32	20.24	18.58
20MHz	1RB-High (99)	1905 (26590)	20.15	20.53	20.42	18.38
		1882.5 (26365)	20.07	20.12	20.21	18.58
		1860 (26140)	20.48	20.68	20.35	18.49
	1RB-Middle (50)	1905 (26590)	19.25	19.36	19.48	18.60
		1882.5 (26365)	20.30	20.39	20.26	18.40
		1860 (26140)	20.25	20.14	20.10	18.77
	1RB-Low (0)	1905 (26590)	19.80	20.01	19.88	18.48
		1882.5 (26365)	20.49	20.83	20.83	18.49
		1860 (26140)	20.42	20.76	20.86	18.73
	50RB-High (50)	1905 (26590)	19.51	19.44	19.55	18.51
		1882.5 (26365)	20.29	20.19	20.29	18.56
		1860 (26140)	20.27	20.32	20.34	18.59
	50RB-Middle (25)	1905 (26590)	19.35	19.35	19.38	18.75
		1882.5 (26365)	20.45	20.32	20.27	18.49
		1860 (26140)	20.29	20.32	20.32	18.57
	50RB-Low (0)	1905 (26590)	19.32	19.45	19.54	18.50
		1882.5 (26365)	20.48	20.19	20.38	18.52
		1860 (26140)	20.27	20.44	20.45	18.73
	100RB (0)	1905 (26590)	19.53	19.67	19.56	18.45
		1882.5 (26365)	20.31	20.34	20.35	18.73
		1860 (26140)	20.29	20.38	20.34	18.46

LTE Band26 ANT0 (Power Level A1/B1/C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	848.3 (27033)	24.02	23.41	22.38	19.22
		831.5 (26865)	24.09	23.44	22.30	18.99
		814.7 (26697)	24.14	23.48	22.23	18.92
	1RB-Middle (3)	848.3 (27033)	24.09	23.44	22.47	19.25
		831.5 (26865)	24.24	23.41	22.30	19.16
		814.7 (26697)	24.08	23.31	22.32	19.24
	1RB-Low (0)	848.3 (27033)	24.17	23.46	22.37	18.95
		831.5 (26865)	24.13	23.34	22.44	19.10
		814.7 (26697)	24.13	23.40	22.50	18.85
	3RB-High (3)	848.3 (27033)	24.16	23.36	22.32	19.15
		831.5 (26865)	24.23	23.37	22.33	19.09
		814.7 (26697)	24.21	23.28	22.16	18.97
	3RB-Middle (1)	848.3 (27033)	24.18	23.27	22.32	19.19
		831.5 (26865)	24.23	23.38	22.24	19.10
		814.7 (26697)	24.20	23.27	22.37	18.98
	3RB-Low (0)	848.3 (27033)	24.24	23.29	22.32	18.87
		831.5 (26865)	24.23	23.14	22.43	19.22
		814.7 (26697)	24.14	23.31	22.35	19.09
	6RB (0)	848.3 (27033)	23.17	22.25	21.24	19.12
		831.5 (26865)	23.14	22.28	21.16	18.91
		814.7 (26697)	23.17	22.30	21.24	19.11
3MHz	1RB-High (14)	847.5 (27025)	24.01	23.44	22.30	18.97
		831.5 (26865)	24.13	23.46	22.38	19.11
		815.5 (26705)	24.06	23.40	22.33	19.01
	1RB-Middle (7)	847.5 (27025)	24.14	23.35	22.41	19.16
		831.5 (26865)	24.21	23.39	22.43	18.95
		815.5 (26705)	24.18	23.41	22.48	19.10
	1RB-Low (0)	847.5 (27025)	24.14	23.32	22.32	19.23
		831.5 (26865)	24.16	23.33	22.38	19.10
		815.5 (26705)	24.13	23.41	22.41	18.90
	8RB-High (7)	847.5 (27025)	23.25	22.26	21.23	19.12
		831.5 (26865)	23.24	22.36	21.35	19.13
		815.5 (26705)	23.27	22.30	21.33	19.10
	8RB-Middle (4)	847.5 (27025)	23.22	22.24	21.15	18.88
		831.5 (26865)	23.24	22.22	21.24	18.89
		815.5 (26705)	23.15	22.26	21.29	18.89
	8RB-Low (0)	847.5 (27025)	23.12	22.23	21.13	18.99
		831.5 (26865)	23.21	22.34	21.25	19.24
		815.5 (26705)	23.20	22.28	21.26	19.06
	15RB (0)	847.5 (27025)	23.16	22.16	21.15	18.93
		831.5 (26865)	23.22	22.20	21.24	19.02
		815.5 (26705)	23.20	22.21	21.20	19.20

5MHz	1RB-High (24)	846.5 (27015)	24.16	23.41	22.47	19.21
		831.5 (26865)	24.11	23.45	22.46	19.23
		816.5 (26715)	24.19	23.34	22.47	18.89
	1RB-Middle (12)	846.5 (27015)	24.21	23.50	22.44	19.18
		831.5 (26865)	24.23	23.49	22.46	18.93
		816.5 (26715)	24.25	23.49	22.36	19.03
	1RB-Low (0)	846.5 (27015)	24.13	23.45	22.33	19.02
		831.5 (26865)	24.19	23.28	22.39	18.95
		816.5 (26715)	24.24	23.37	22.36	18.99
	12RB-High (13)	846.5 (27015)	23.18	22.30	21.33	19.02
		831.5 (26865)	23.32	22.31	21.22	19.04
		816.5 (26715)	23.26	22.36	21.31	18.94
	12RB-Middle (6)	846.5 (27015)	23.16	22.28	21.16	18.90
		831.5 (26865)	23.21	22.29	21.29	19.01
		816.5 (26715)	23.29	22.40	21.30	19.15
	12RB-Low (0)	846.5 (27015)	23.22	22.22	21.17	19.17
		831.5 (26865)	23.28	22.26	21.30	19.08
		816.5 (26715)	23.21	22.21	21.27	19.04
	25RB (0)	846.5 (27015)	23.25	22.19	21.09	19.25
		831.5 (26865)	23.25	22.35	21.24	19.16
		816.5 (26715)	23.36	22.29	21.25	18.95
10MHz	1RB-High (49)	844 (26990)	24.11	23.28	22.29	19.23
		831.5 (26865)	24.16	23.42	22.42	19.17
		820 (26750)	24.03	23.40	22.42	18.85
	1RB-Middle (24)	844 (26990)	24.18	23.37	22.36	19.01
		831.5 (26865)	24.17	23.47	22.40	18.97
		820 (26750)	24.16	23.42	22.36	19.12
	1RB-Low (0)	844 (26990)	24.11	23.44	22.29	19.10
		831.5 (26865)	24.13	23.41	22.43	19.23
		820 (26750)	24.11	23.38	22.41	18.95
	25RB-High (25)	844 (26990)	23.31	22.27	21.29	18.90
		831.5 (26865)	23.26	22.24	21.21	19.15
		820 (26750)	23.28	22.35	21.34	18.90
	25RB-Middle (12)	844 (26990)	23.23	22.25	21.30	19.13
		831.5 (26865)	23.31	22.27	21.29	18.92
		820 (26750)	23.37	22.28	21.35	19.11
	25RB-Low (0)	844 (26990)	23.22	22.29	21.21	18.98
		831.5 (26865)	23.24	22.23	21.30	19.21
		820 (26750)	23.20	22.34	21.20	18.89
	50RB (0)	844 (26990)	23.23	22.26	21.20	18.94
		831.5 (26865)	23.26	22.28	21.32	18.97
		820 (26750)	23.33	22.42	21.31	18.97

15MHz	1RB-High (74)	841.5 (26965)	23.88	23.21	22.18	19.12
		831.5 (26865)	23.83	23.49	22.34	19.00
		822.5 (26775)	24.00	23.03	22.15	18.97
	1RB-Middle (37)	841.5 (26965)	24.05	23.17	22.41	19.25
		831.5 (26865)	24.05	23.27	22.32	19.25
		822.5 (26775)	24.00	23.12	22.31	19.12
	1RB-Low (0)	841.5 (26965)	24.01	23.31	22.35	19.14
		831.5 (26865)	23.96	23.28	22.25	18.94
		822.5 (26775)	23.93	23.08	22.33	18.87
	36RB-High (38)	841.5 (26965)	23.10	22.08	21.09	19.17
		831.5 (26865)	23.12	22.19	21.12	18.95
		822.5 (26775)	23.18	22.06	20.99	18.88
	36RB-Middle (19)	841.5 (26965)	23.09	22.03	21.06	19.20
		831.5 (26865)	23.10	22.09	21.07	19.18
		822.5 (26775)	23.09	22.03	21.14	19.13
	36RB-Low (0)	841.5 (26965)	23.05	22.15	20.94	18.91
		831.5 (26865)	23.08	21.98	21.08	18.86
		822.5 (26775)	23.01	21.95	20.90	19.14
	75RB (0)	841.5 (26965)	23.04	22.02	21.04	18.87
		831.5 (26865)	23.11	22.01	21.07	18.90
		822.5 (26775)	23.04	22.07	21.05	19.11

LTE Band41-PC2 ANT1 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	26.60	25.66	24.91	21.75
		2640.3(41093)	26.49	25.85	24.95	21.79
		2593 (40620)	26.62	25.94	24.89	21.56
		2545.8(40148)	26.30	25.92	24.48	21.34
		2498.5 (39675)	26.07	25.59	24.34	21.75
	1RB-Middle (12)	2687.5 (41565)	26.65	25.76	24.98	21.45
		2640.3(41093)	26.52	25.86	24.82	21.44
		2593 (40620)	26.73	25.84	24.82	21.84
		2545.8(40148)	26.47	25.80	24.64	21.41
		2498.5 (39675)	26.11	25.48	24.45	21.56
	1RB-Low (0)	2687.5 (41565)	26.67	25.85	24.82	21.54
		2640.3(41093)	26.52	25.93	24.82	21.84
		2593 (40620)	26.66	25.91	24.84	21.53
		2545.8(40148)	26.34	25.70	24.41	21.85
		2498.5 (39675)	26.09	25.57	24.33	21.57
	12RB-High (13)	2687.5 (41565)	25.83	24.79	23.85	21.72
		2640.3(41093)	25.64	24.64	23.69	21.76
		2593 (40620)	25.83	24.87	23.75	21.85
		2545.8(40148)	25.52	24.55	23.35	21.80
		2498.5 (39675)	25.22	24.26	23.22	21.61
	12RB-Middle (6)	2687.5 (41565)	25.84	24.87	23.87	21.85
		2640.3(41093)	25.59	24.61	23.62	21.45
		2593 (40620)	25.78	24.81	23.65	21.83
		2545.8(40148)	25.54	24.55	23.43	21.62
		2498.5 (39675)	25.27	24.27	23.30	21.41
	12RB-Low (0)	2687.5 (41565)	25.77	24.73	23.85	21.52
		2640.3(41093)	25.58	24.61	23.61	21.50
		2593 (40620)	25.78	24.78	23.62	21.48
		2545.8(40148)	25.52	24.54	23.31	21.55
		2498.5 (39675)	25.21	24.25	23.19	21.58
	25RB (0)	2687.5 (41565)	25.85	24.83	23.87	21.75
		2640.3(41093)	25.60	24.59	23.63	21.82
		2593 (40620)	25.73	24.83	23.68	21.41
		2545.8(40148)	25.55	24.58	23.36	21.60
		2498.5 (39675)	25.25	24.24	23.23	21.31

10MHz	1RB-High (49)	2685 (41540)	26.55	25.75	24.81	21.52
		2639(41080)	26.38	25.86	24.79	21.43
		2593 (40620)	26.58	25.94	24.83	21.40
		2547(40160)	26.28	25.86	24.48	21.33
		2501 (39700)	26.13	25.53	24.37	21.81
	1RB-Middle (24)	2685 (41540)	26.65	25.86	24.85	21.74
		2639(41080)	26.52	25.86	24.82	21.32
		2593 (40620)	26.73	25.84	24.89	21.78
		2547(40160)	26.38	25.70	24.48	21.76
		2501 (39700)	26.06	25.61	24.53	21.46
	1RB-Low (0)	2685 (41540)	26.68	25.99	24.79	21.80
		2639(41080)	26.50	25.89	24.79	21.44
		2593 (40620)	26.66	25.26	24.95	21.52
		2547(40160)	26.39	25.81	24.53	21.67
		2501 (39700)	26.06	25.67	24.34	21.50
	25RB-High (25)	2685 (41540)	25.84	24.84	23.89	21.72
		2639(41080)	25.64	24.70	23.71	21.57
		2593 (40620)	25.84	24.80	23.75	21.59
		2547(40160)	25.54	24.59	23.39	21.69
		2501 (39700)	25.27	24.25	23.26	21.47
	25RB-Middle (12)	2685 (41540)	25.80	24.84	23.87	21.51
		2639(41080)	25.62	24.60	23.68	21.78
		2593 (40620)	25.80	24.81	23.67	21.35
		2547(40160)	25.56	24.55	23.42	21.51
		2501 (39700)	25.29	24.33	23.29	21.38
	25RB-Low (0)	2685 (41540)	25.78	24.78	23.85	21.67
		2639(41080)	25.60	24.67	23.65	21.45
		2593 (40620)	25.80	24.79	23.70	21.59
		2547(40160)	25.47	24.50	23.36	21.43
		2501 (39700)	25.26	24.23	23.28	21.34
	50RB (0)	2685 (41540)	25.81	24.81	23.83	21.78
		2639(41080)	25.61	24.70	23.65	21.76
		2593 (40620)	25.82	24.82	23.69	21.50
		2547(40160)	25.57	24.61	23.38	21.66
		2501 (39700)	25.28	24.30	23.25	21.85

15MHz	1RB-High (74)	2682.5 (41515)	26.45	25.78	24.76	21.42
		2637.8(41068)	26.13	25.71	24.57	21.44
		2593 (40620)	26.37	25.82	24.53	21.78
		2548.3(40173)	26.14	25.56	24.14	21.42
		2503.5 (39725)	25.87	25.22	24.22	21.78
	1RB-Middle (37)	2682.5 (41515)	26.47	25.94	24.72	21.60
		2637.8(41068)	26.32	25.70	24.58	21.61
		2593 (40620)	26.50	25.88	24.76	21.51
		2548.3(40173)	26.18	25.81	24.28	21.49
		2503.5 (39725)	26.01	25.43	24.37	21.84
	1RB-Low (0)	2682.5 (41515)	26.37	25.59	24.67	21.65
		2637.8(41068)	26.31	25.68	24.71	21.31
		2593 (40620)	26.44	26.00	24.54	21.61
		2548.3(40173)	26.13	25.57	24.31	21.85
		2503.5 (39725)	25.85	25.33	24.26	21.34
	36RB-High (38)	2682.5 (41515)	25.63	24.66	23.64	21.46
		2637.8(41068)	25.42	24.51	23.50	21.77
		2593 (40620)	25.59	24.60	23.50	21.35
		2548.3(40173)	25.25	24.27	23.12	21.38
		2503.5 (39725)	25.09	24.10	23.09	21.46
	36RB-Middle (19)	2682.5 (41515)	25.63	24.66	23.70	21.75
		2637.8(41068)	25.51	24.55	23.55	21.58
		2593 (40620)	25.53	24.56	23.45	21.83
		2548.3(40173)	25.32	24.30	23.16	21.80
		2503.5 (39725)	25.07	24.07	23.07	21.60
	36RB-Low (0)	2682.5 (41515)	25.52	24.60	23.57	21.57
		2637.8(41068)	25.44	24.52	23.48	21.69
		2593 (40620)	25.58	24.57	23.46	21.31
		2548.3(40173)	25.20	24.25	23.08	21.65
		2503.5 (39725)	24.96	24.00	22.98	21.42
	75RB (0)	2682.5 (41515)	25.59	24.64	23.62	21.66
		2637.8(41068)	25.48	24.48	23.51	21.52
		2593 (40620)	25.53	24.52	23.40	21.65
		2548.3(40173)	25.27	24.29	23.11	21.34
		2503.5 (39725)	25.03	24.09	23.09	21.81

20MHz	1RB-High (99)	2680 (41490)	26.29	25.79	24.79	21.37
		2636.5(41055)	26.14	25.74	24.32	21.76
		2593 (40620)	26.30	25.71	24.54	21.81
		2549.5(40185)	26.02	25.50	24.06	21.79
		2506 (39750)	26.02	25.44	24.37	21.35
	1RB-Middle (50)	2680 (41490)	26.47	25.80	24.60	21.59
		2636.5(41055)	26.28	25.97	24.70	21.35
		2593 (40620)	26.57	25.61	23.77	21.65
		2549.5(40185)	26.07	25.73	24.22	21.40
		2506 (39750)	25.94	25.53	24.28	21.49
	1RB-Low (0)	2680 (41490)	26.28	25.70	24.43	21.45
		2636.5(41055)	26.51	25.67	24.59	21.61
		2593 (40620)	26.47	25.93	24.49	21.48
		2549.5(40185)	26.07	25.56	24.25	21.32
		2506 (39750)	25.87	25.37	23.98	21.78
	50RB-High (50)	2680 (41490)	25.53	24.53	23.61	21.49
		2636.5(41055)	25.36	24.46	23.43	21.62
		2593 (40620)	25.56	24.61	23.47	21.56
		2549.5(40185)	25.28	24.33	23.09	21.43
		2506 (39750)	25.10	24.15	23.09	21.82
	50RB-Middle (25)	2680 (41490)	25.48	24.60	23.58	21.80
		2636.5(41055)	25.48	24.55	23.50	21.56
		2593 (40620)	25.41	24.45	22.46	21.58
		2549.5(40185)	25.31	24.38	23.13	21.85
		2506 (39750)	25.12	24.17	23.12	21.77
	50RB-Low (0)	2680 (41490)	25.50	24.59	23.55	21.65
		2636.5(41055)	25.42	24.50	23.48	21.68
		2593 (40620)	25.53	24.61	23.44	21.46
		2549.5(40185)	25.18	24.23	23.13	21.34
		2506 (39750)	24.94	24.08	22.99	21.44
	100RB (0)	2680 (41490)	25.46	24.55	23.54	21.48
		2636.5(41055)	25.48	24.52	23.48	21.60
		2593 (40620)	25.50	24.55	23.43	21.44
		2549.5(40185)	25.24	24.31	23.16	21.83
		2506 (39750)	25.13	24.12	23.09	21.48

LTE Band41-PC2 ANT1 (Power Level B1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	23.74	23.97	23.97	21.51
		2640.3(41093)	23.51	23.80	23.62	21.76
		2593 (40620)	23.59	23.98	23.80	21.57
		2545.8(40148)	23.20	23.52	23.37	21.44
		2498.5 (39675)	23.18	23.51	23.39	21.54
	1RB-Middle (12)	2687.5 (41565)	23.75	23.84	24.05	21.47
		2640.3(41093)	23.51	23.91	23.71	21.64
		2593 (40620)	23.65	23.98	23.88	21.68
		2545.8(40148)	23.21	23.69	23.45	21.36
		2498.5 (39675)	23.23	23.61	23.37	21.79
	1RB-Low (0)	2687.5 (41565)	23.73	23.81	23.85	21.58
		2640.3(41093)	23.48	23.90	23.58	21.36
		2593 (40620)	23.57	23.82	23.77	21.55
		2545.8(40148)	23.19	23.52	23.37	21.43
		2498.5 (39675)	23.19	23.55	23.30	21.58
	12RB-High (13)	2687.5 (41565)	23.83	23.95	23.95	21.52
		2640.3(41093)	23.58	23.62	23.68	21.39
		2593 (40620)	23.71	23.74	23.77	21.39
		2545.8(40148)	23.30	23.33	23.35	21.68
		2498.5 (39675)	23.25	23.28	23.23	21.57
	12RB-Middle (6)	2687.5 (41565)	23.85	23.88	23.91	21.37
		2640.3(41093)	23.53	23.56	23.58	21.68
		2593 (40620)	23.67	23.69	23.69	21.68
		2545.8(40148)	23.30	23.33	23.34	21.80
		2498.5 (39675)	23.28	23.36	23.26	21.33
	12RB-Low (0)	2687.5 (41565)	23.81	23.91	23.84	21.53
		2640.3(41093)	23.55	23.61	23.59	21.68
		2593 (40620)	23.66	23.69	23.74	21.53
		2545.8(40148)	23.25	23.30	23.26	21.52
		2498.5 (39675)	23.25	23.25	23.33	21.33
	25RB (0)	2687.5 (41565)	23.90	23.94	23.93	21.54
		2640.3(41093)	23.53	23.56	23.57	21.36
		2593 (40620)	23.64	23.64	23.67	21.53
		2545.8(40148)	23.29	23.35	23.31	21.64
		2498.5 (39675)	23.28	23.31	23.31	21.68

10MHz	1RB-High (49)	2685 (41540)	23.70	23.84	23.92	21.30
		2639(41080)	23.39	23.89	23.58	21.77
		2593 (40620)	23.55	23.88	23.71	21.58
		2547(40160)	23.13	23.61	23.36	21.77
		2501 (39700)	23.09	23.56	23.29	21.57
	1RB-Middle (24)	2685 (41540)	23.75	23.86	24.01	21.46
		2639(41080)	23.52	23.97	23.71	21.65
		2593 (40620)	23.60	24.02	23.77	21.43
		2547(40160)	23.22	23.64	23.43	21.76
		2501 (39700)	23.14	23.43	23.33	21.68
	1RB-Low (0)	2685 (41540)	23.66	23.81	23.85	21.31
		2639(41080)	23.50	23.82	23.80	21.46
		2593 (40620)	23.62	23.92	23.64	21.77
		2547(40160)	23.15	23.49	23.33	21.40
		2501 (39700)	23.14	23.58	23.36	21.61
	25RB-High (25)	2685 (41540)	23.83	23.84	23.85	21.39
		2639(41080)	23.57	23.61	23.59	21.58
		2593 (40620)	23.69	23.73	23.74	21.49
		2547(40160)	23.30	23.33	23.38	21.67
		2501 (39700)	23.21	23.29	23.30	21.38
	25RB-Middle (12)	2685 (41540)	23.82	23.83	23.80	21.49
		2639(41080)	23.55	23.57	23.55	21.38
		2593 (40620)	23.64	23.69	23.68	21.62
		2547(40160)	23.32	23.36	23.37	21.75
		2501 (39700)	23.27	23.32	23.31	21.50
	25RB-Low (0)	2685 (41540)	23.80	23.79	23.79	21.32
		2639(41080)	23.54	23.60	23.54	21.58
		2593 (40620)	23.64	23.71	23.67	21.62
		2547(40160)	23.28	23.28	23.27	21.70
		2501 (39700)	23.24	23.28	23.32	21.70
	50RB (0)	2685 (41540)	23.78	23.83	23.82	21.38
		2639(41080)	23.56	23.55	23.53	21.37
		2593 (40620)	23.69	23.73	23.69	21.67
		2547(40160)	23.31	23.40	23.39	21.66
		2501 (39700)	23.30	23.30	23.31	21.70

15MHz	1RB-High (74)	2682.5 (41515)	23.43	23.85	23.62	21.59
		2637.8(41068)	23.12	23.62	23.47	21.34
		2593 (40620)	23.32	23.63	23.55	21.41
		2548.3(40173)	23.03	23.35	23.11	21.48
		2503.5 (39725)	22.92	23.17	23.10	21.73
	1RB-Middle (37)	2682.5 (41515)	23.48	23.89	23.67	21.50
		2637.8(41068)	23.26	23.62	23.60	21.64
		2593 (40620)	23.40	23.81	23.50	21.32
		2548.3(40173)	23.00	23.34	23.27	21.63
		2503.5 (39725)	22.94	23.42	23.02	21.37
	1RB-Low (0)	2682.5 (41515)	23.48	23.77	23.52	21.54
		2637.8(41068)	23.34	23.51	23.50	21.39
		2593 (40620)	23.33	23.78	23.63	21.40
		2548.3(40173)	22.98	23.20	23.17	21.66
		2503.5 (39725)	22.91	23.28	23.03	21.71
	36RB-High (38)	2682.5 (41515)	23.60	23.63	23.61	21.53
		2637.8(41068)	23.36	23.38	23.42	21.80
		2593 (40620)	23.46	23.46	23.50	21.48
		2548.3(40173)	23.07	23.11	23.13	21.57
		2503.5 (39725)	23.00	23.05	23.06	21.75
	36RB-Middle (19)	2682.5 (41515)	23.60	23.58	23.66	21.46
		2637.8(41068)	23.40	23.41	23.45	21.59
		2593 (40620)	23.41	23.51	23.48	21.45
		2548.3(40173)	23.10	23.17	23.16	21.60
		2503.5 (39725)	23.01	23.10	23.08	21.45
	36RB-Low (0)	2682.5 (41515)	23.51	23.52	23.56	21.60
		2637.8(41068)	23.29	23.37	23.37	21.39
		2593 (40620)	23.40	23.41	23.48	21.77
		2548.3(40173)	22.97	23.05	23.04	21.31
		2503.5 (39725)	22.95	22.97	23.03	21.31
	75RB (0)	2682.5 (41515)	23.61	23.60	23.62	21.61
		2637.8(41068)	23.39	23.43	23.44	21.30
		2593 (40620)	23.42	23.44	23.44	21.31
		2548.3(40173)	23.12	23.17	23.08	21.74
		2503.5 (39725)	23.03	23.08	23.01	21.53

20MHz	1RB-High (99)	2680 (41490)	23.41	23.79	23.72	21.63
		2636.5(41055)	23.15	23.63	23.31	21.50
		2593 (40620)	23.22	23.62	23.37	21.42
		2549.5(40185)	22.96	23.43	23.10	21.37
		2506 (39750)	22.95	23.36	23.16	21.74
	1RB-Middle (50)	2680 (41490)	23.47	23.80	23.63	21.76
		2636.5(41055)	23.24	23.84	23.42	21.75
		2593 (40620)	23.37	23.78	23.53	21.49
		2549.5(40185)	22.88	23.35	23.46	21.44
		2506 (39750)	22.91	23.46	23.19	21.80
	1RB-Low (0)	2680 (41490)	23.43	23.71	23.57	21.44
		2636.5(41055)	23.28	23.74	23.40	21.71
		2593 (40620)	23.40	23.63	23.47	21.61
		2549.5(40185)	22.89	23.36	23.17	21.60
		2506 (39750)	22.89	23.29	22.92	21.71
	50RB-High (50)	2680 (41490)	23.54	23.65	23.58	21.53
		2636.5(41055)	23.34	23.33	23.35	21.78
		2593 (40620)	23.42	23.44	23.48	21.57
		2549.5(40185)	23.05	23.05	23.12	21.75
		2506 (39750)	23.01	23.04	23.03	21.32
	50RB-Middle (25)	2680 (41490)	23.50	23.56	23.54	21.45
		2636.5(41055)	23.42	23.46	23.43	21.59
		2593 (40620)	23.39	23.45	23.48	21.75
		2549.5(40185)	23.11	23.16	23.13	21.78
		2506 (39750)	23.06	23.08	23.05	21.54
	50RB-Low (0)	2680 (41490)	23.50	23.51	23.53	21.64
		2636.5(41055)	23.32	23.37	23.37	21.78
		2593 (40620)	23.39	23.44	23.44	21.56
		2549.5(40185)	23.06	23.09	23.03	21.32
		2506 (39750)	22.95	22.97	22.98	21.34
	100RB (0)	2680 (41490)	23.45	23.50	23.52	21.36
		2636.5(41055)	23.34	23.37	23.35	21.54
		2593 (40620)	23.37	23.39	23.47	21.35
		2549.5(40185)	23.09	23.09	23.10	21.34
		2506 (39750)	22.98	23.04	23.06	21.40

LTE Band41-PC2 ANT1 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	22.74	22.96	22.85	21.59
		2640.3(41093)	22.44	22.80	22.72	21.63
		2593 (40620)	22.57	22.86	22.75	21.34
		2545.8(40148)	22.17	22.59	22.31	21.70
		2498.5 (39675)	22.14	22.46	22.33	21.67
	1RB-Middle (12)	2687.5 (41565)	22.80	22.91	23.05	21.72
		2640.3(41093)	22.57	22.88	22.71	21.69
		2593 (40620)	22.63	23.00	22.87	21.75
		2545.8(40148)	22.20	22.67	22.42	21.55
		2498.5 (39675)	22.17	22.57	22.44	21.79
	1RB-Low (0)	2687.5 (41565)	22.74	22.89	22.94	21.59
		2640.3(41093)	22.51	22.88	22.71	21.47
		2593 (40620)	22.57	22.92	22.66	21.34
		2545.8(40148)	22.17	22.52	22.28	21.65
		2498.5 (39675)	22.16	22.56	22.37	21.31
	12RB-High (13)	2687.5 (41565)	22.85	22.90	22.89	21.33
		2640.3(41093)	22.58	22.60	22.62	21.50
		2593 (40620)	22.72	22.76	22.77	21.48
		2545.8(40148)	22.27	22.34	22.31	21.80
		2498.5 (39675)	22.24	22.28	22.39	21.49
	12RB-Middle (6)	2687.5 (41565)	22.91	22.88	23.01	21.54
		2640.3(41093)	22.55	22.56	22.58	21.59
		2593 (40620)	22.62	22.64	22.66	21.30
		2545.8(40148)	22.27	22.34	22.33	21.68
		2498.5 (39675)	22.23	22.32	22.33	21.78
	12RB-Low (0)	2687.5 (41565)	22.79	22.82	22.90	21.78
		2640.3(41093)	22.53	22.60	22.64	21.30
		2593 (40620)	22.65	22.67	22.68	21.73
		2545.8(40148)	22.26	22.23	22.36	21.31
		2498.5 (39675)	22.26	22.28	22.35	21.38
	25RB (0)	2687.5 (41565)	22.88	22.92	22.91	21.40
		2640.3(41093)	22.50	22.52	22.57	21.41
		2593 (40620)	22.66	22.66	22.70	21.62
		2545.8(40148)	22.32	22.36	22.38	21.33
		2498.5 (39675)	22.26	22.29	22.32	21.59

10MHz	1RB-High (49)	2685 (41540)	22.66	22.98	23.00	21.34
		2639(41080)	22.43	22.93	22.60	21.45
		2593 (40620)	22.51	23.00	22.77	21.78
		2547(40160)	22.15	22.52	22.40	21.75
		2501 (39700)	22.07	22.63	22.28	21.69
	1RB-Middle (24)	2685 (41540)	22.70	22.96	22.91	21.73
		2639(41080)	22.50	22.85	22.70	21.65
		2593 (40620)	22.59	22.87	22.76	21.41
		2547(40160)	22.23	22.59	22.41	21.69
		2501 (39700)	22.15	22.47	22.30	21.40
	1RB-Low (0)	2685 (41540)	22.71	22.98	22.93	21.40
		2639(41080)	22.52	22.92	22.67	21.79
		2593 (40620)	22.62	22.88	22.73	21.52
		2547(40160)	22.24	22.59	22.30	21.43
		2501 (39700)	22.16	22.57	22.41	21.62
	25RB-High (25)	2685 (41540)	22.85	22.86	22.86	21.70
		2639(41080)	22.60	22.63	22.61	21.32
		2593 (40620)	22.69	22.73	22.75	21.75
		2547(40160)	22.32	22.37	22.34	21.47
		2501 (39700)	22.22	22.29	22.30	21.65
	25RB-Middle (12)	2685 (41540)	22.83	22.86	22.82	21.61
		2639(41080)	22.55	22.58	22.61	21.34
		2593 (40620)	22.65	22.73	22.69	21.74
		2547(40160)	22.34	22.37	22.37	21.60
		2501 (39700)	22.24	22.31	22.29	21.34
	25RB-Low (0)	2685 (41540)	22.79	22.84	22.82	21.46
		2639(41080)	22.55	22.60	22.55	21.77
		2593 (40620)	22.65	22.69	22.68	21.61
		2547(40160)	22.23	22.27	22.25	21.40
		2501 (39700)	22.26	22.27	22.23	21.67
	50RB (0)	2685 (41540)	22.82	22.86	22.82	21.32
		2639(41080)	22.55	22.61	22.60	21.47
		2593 (40620)	22.68	22.73	22.68	21.56
		2547(40160)	22.35	22.39	22.36	21.67
		2501 (39700)	22.28	22.29	22.27	21.74

15MHz	1RB-High (74)	2682.5 (41515)	22.43	22.86	22.71	21.72
		2637.8(41068)	22.15	22.53	22.31	21.60
		2593 (40620)	22.33	22.67	22.48	21.32
		2548.3(40173)	21.94	22.35	22.07	21.46
		2503.5 (39725)	21.83	22.14	22.07	21.32
	1RB-Middle (37)	2682.5 (41515)	22.49	23.00	22.70	21.78
		2637.8(41068)	22.32	22.65	22.43	21.63
		2593 (40620)	22.43	22.90	22.63	21.53
		2548.3(40173)	21.99	22.40	22.26	21.43
		2503.5 (39725)	21.93	22.16	22.06	21.41
	1RB-Low (0)	2682.5 (41515)	22.50	22.74	22.56	21.60
		2637.8(41068)	22.32	22.60	22.60	21.44
		2593 (40620)	22.40	22.79	22.67	21.61
		2548.3(40173)	21.95	22.26	22.11	21.33
		2503.5 (39725)	21.90	22.20	22.14	21.61
	36RB-High (38)	2682.5 (41515)	22.64	22.70	22.72	21.49
		2637.8(41068)	22.37	22.35	22.42	21.41
		2593 (40620)	22.49	22.52	22.56	21.76
		2548.3(40173)	22.10	22.15	22.10	21.41
		2503.5 (39725)	21.99	22.06	22.03	21.52
	36RB-Middle (19)	2682.5 (41515)	22.64	22.68	22.70	21.33
		2637.8(41068)	22.39	22.37	22.45	21.37
		2593 (40620)	22.41	22.48	22.50	21.73
		2548.3(40173)	22.10	22.12	22.18	21.65
		2503.5 (39725)	22.03	22.06	22.09	21.37
	36RB-Low (0)	2682.5 (41515)	22.58	22.59	22.64	21.74
		2637.8(41068)	22.36	22.39	22.41	21.73
		2593 (40620)	22.48	22.48	22.50	21.55
		2548.3(40173)	21.97	22.08	22.10	21.57
		2503.5 (39725)	21.97	21.97	22.00	21.66
	75RB (0)	2682.5 (41515)	22.64	22.68	22.65	21.46
		2637.8(41068)	22.44	22.42	22.40	21.68
		2593 (40620)	22.41	22.47	22.44	21.80
		2548.3(40173)	22.10	22.11	22.07	21.46
		2503.5 (39725)	22.01	22.05	22.06	21.39

20MHz	1RB-High (99)	2680 (41490)	22.45	22.86	22.75	21.69
		2636.5(41055)	22.20	22.58	22.34	21.70
		2593 (40620)	22.29	22.64	22.50	21.77
		2549.5(40185)	22.01	22.40	22.17	21.37
		2506 (39750)	21.90	22.35	22.13	21.40
	1RB-Middle (50)	2680 (41490)	22.52	22.95	22.83	21.61
		2636.5(41055)	22.30	22.63	22.42	21.57
		2593 (40620)	22.43	22.67	22.47	21.37
		2549.5(40185)	22.01	22.35	22.37	21.33
		2506 (39750)	21.95	22.26	22.09	21.49
	1RB-Low (0)	2680 (41490)	22.47	22.72	22.66	21.38
		2636.5(41055)	22.35	22.68	22.54	21.49
		2593 (40620)	22.43	22.70	22.57	21.73
		2549.5(40185)	21.98	22.32	22.19	21.68
		2506 (39750)	21.87	22.38	22.04	21.57
	50RB-High (50)	2680 (41490)	22.62	22.62	22.61	21.80
		2636.5(41055)	22.35	22.43	22.33	21.69
		2593 (40620)	22.48	22.52	22.51	21.40
		2549.5(40185)	22.11	22.16	22.13	21.72
		2506 (39750)	22.00	22.08	22.03	21.48
	50RB-Middle (25)	2680 (41490)	22.53	22.59	22.59	21.72
		2636.5(41055)	22.41	22.51	22.41	21.36
		2593 (40620)	22.45	22.50	22.49	21.47
		2549.5(40185)	22.14	22.14	22.15	21.39
		2506 (39750)	22.08	22.07	22.10	21.49
	50RB-Low (0)	2680 (41490)	22.57	22.61	22.59	21.69
		2636.5(41055)	22.37	22.42	22.42	21.36
		2593 (40620)	22.44	22.49	22.49	21.73
		2549.5(40185)	22.06	22.09	22.04	21.67
		2506 (39750)	21.94	22.02	21.96	21.31
	100RB (0)	2680 (41490)	22.55	22.57	22.58	21.49
		2636.5(41055)	22.41	22.41	22.39	21.79
		2593 (40620)	22.43	22.46	22.46	21.69
		2549.5(40185)	22.11	22.15	22.15	21.44
		2506 (39750)	22.01	22.05	22.07	21.50

LTE Band41-PC3 ANT1 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	24.28	23.38	22.24	18.92
		2640.3(41093)	24.12	23.16	22.08	19.03
		2593 (40620)	24.30	23.21	22.04	18.80
		2545.8(40148)	23.97	23.10	21.67	18.73
		2498.5 (39675)	23.75	22.72	21.65	18.81
	1RB-Middle (12)	2687.5 (41565)	24.40	23.29	22.26	18.74
		2640.3(41093)	24.16	23.30	22.22	18.96
		2593 (40620)	24.34	23.39	22.10	19.02
		2545.8(40148)	24.04	23.11	21.58	18.85
		2498.5 (39675)	23.76	22.77	21.68	18.93
	1RB-Low (0)	2687.5 (41565)	24.29	23.36	22.22	18.75
		2640.3(41093)	24.14	23.04	22.09	18.73
		2593 (40620)	24.28	23.29	22.12	19.04
		2545.8(40148)	23.97	22.96	21.69	18.87
		2498.5 (39675)	23.71	22.73	21.70	18.89
	12RB-High (13)	2687.5 (41565)	23.39	22.40	21.36	18.83
		2640.3(41093)	23.26	22.22	21.12	18.97
		2593 (40620)	23.40	22.36	21.16	18.92
		2545.8(40148)	23.04	22.01	20.76	18.87
		2498.5 (39675)	22.78	21.75	20.68	18.81
	12RB-Middle (6)	2687.5 (41565)	23.44	22.44	21.35	19.00
		2640.3(41093)	23.16	22.14	21.13	18.68
		2593 (40620)	23.33	22.21	21.14	18.68
		2545.8(40148)	23.08	22.07	20.80	18.98
		2498.5 (39675)	22.79	21.77	20.70	18.73
	12RB-Low (0)	2687.5 (41565)	23.36	22.38	21.30	18.75
		2640.3(41093)	23.17	22.19	21.09	19.00
		2593 (40620)	23.34	22.32	21.13	18.84
		2545.8(40148)	22.99	21.89	20.78	18.88
		2498.5 (39675)	22.74	21.73	20.72	18.79
	25RB (0)	2687.5 (41565)	23.44	22.45	21.41	18.99
		2640.3(41093)	23.17	22.19	21.12	18.82
		2593 (40620)	23.34	22.33	21.15	18.73
		2545.8(40148)	23.08	22.05	20.85	18.74
		2498.5 (39675)	22.81	21.76	20.74	18.83

10MHz	1RB-High (49)	2685 (41540)	24.25	23.25	22.19	18.70
		2639(41080)	24.07	23.18	22.09	18.71
		2593 (40620)	24.23	23.22	21.94	18.97
		2547(40160)	23.98	23.12	21.78	18.76
		2501 (39700)	23.75	22.73	21.63	18.82
	1RB-Middle (24)	2685 (41540)	24.31	23.35	22.34	18.66
		2639(41080)	24.16	23.22	21.93	18.74
		2593 (40620)	24.30	23.38	22.08	18.90
		2547(40160)	24.03	22.96	21.81	18.68
		2501 (39700)	23.76	22.82	21.68	18.82
	1RB-Low (0)	2685 (41540)	24.29	23.36	22.14	18.92
		2639(41080)	24.17	23.12	22.01	18.77
		2593 (40620)	24.29	23.28	22.06	19.01
		2547(40160)	23.97	23.09	21.83	18.69
		2501 (39700)	23.67	22.68	21.56	18.71
	25RB-High (25)	2685 (41540)	23.41	22.43	21.43	18.68
		2639(41080)	23.19	22.22	21.15	18.83
		2593 (40620)	23.38	22.37	21.25	18.67
		2547(40160)	23.07	22.08	20.86	18.98
		2501 (39700)	22.85	21.79	20.73	18.70
	25RB-Middle (12)	2685 (41540)	23.35	22.38	21.37	18.76
		2639(41080)	23.18	22.18	21.14	18.78
		2593 (40620)	23.37	22.32	21.19	18.88
		2547(40160)	23.10	22.08	20.87	18.71
		2501 (39700)	22.83	21.82	20.75	18.75
	25RB-Low (0)	2685 (41540)	23.31	22.39	21.34	19.02
		2639(41080)	23.19	22.21	21.11	19.05
		2593 (40620)	23.34	22.30	21.16	18.94
		2547(40160)	23.01	22.02	20.77	18.97
		2501 (39700)	22.80	21.79	20.76	18.89
	50RB (0)	2685 (41540)	23.37	22.41	21.33	18.81
		2639(41080)	23.22	22.45	21.13	18.75
		2593 (40620)	23.39	22.37	21.17	18.80
		2547(40160)	23.11	22.09	20.83	19.00
		2501 (39700)	22.86	21.82	20.77	18.65

15MHz	1RB-High (74)	2682.5 (41515)	24.20	23.07	22.08	18.78
		2637.8(41068)	23.85	22.99	21.83	19.05
		2593 (40620)	23.93	23.17	21.84	18.94
		2548.3(40173)	23.78	22.71	21.36	18.85
		2503.5 (39725)	23.61	22.62	21.47	18.85
	1RB-Middle (37)	2682.5 (41515)	24.08	23.02	22.13	19.01
		2637.8(41068)	23.94	23.19	21.89	18.90
		2593 (40620)	24.13	23.28	21.95	18.77
		2548.3(40173)	23.78	22.92	21.68	18.89
		2503.5 (39725)	23.58	22.57	21.46	18.75
	1RB-Low (0)	2682.5 (41515)	24.05	23.19	22.05	18.75
		2637.8(41068)	24.05	23.08	22.02	18.77
		2593 (40620)	24.16	23.13	21.93	18.88
		2548.3(40173)	23.74	22.78	21.82	19.00
		2503.5 (39725)	23.58	22.44	21.43	18.82
	36RB-High (38)	2682.5 (41515)	23.18	22.23	21.17	18.86
		2637.8(41068)	23.01	22.01	20.96	18.67
		2593 (40620)	23.05	22.17	21.00	19.02
		2548.3(40173)	22.79	21.80	20.54	18.89
		2503.5 (39725)	22.62	21.58	20.50	19.00
	36RB-Middle (19)	2682.5 (41515)	23.22	22.21	21.20	18.67
		2637.8(41068)	23.04	22.00	20.99	18.88
		2593 (40620)	23.08	22.12	20.91	18.68
		2548.3(40173)	22.88	21.83	20.68	18.75
		2503.5 (39725)	22.64	21.62	20.53	18.76
	36RB-Low (0)	2682.5 (41515)	23.11	22.15	21.11	18.92
		2637.8(41068)	23.01	21.98	20.96	18.80
		2593 (40620)	23.09	22.15	20.98	18.81
		2548.3(40173)	22.78	21.82	20.59	19.03
		2503.5 (39725)	22.48	21.48	20.45	18.97
	75RB (0)	2682.5 (41515)	23.18	22.22	21.17	19.05
		2637.8(41068)	23.03	22.04	20.99	18.90
		2593 (40620)	23.10	22.09	20.92	18.88
		2548.3(40173)	22.85	21.86	20.61	18.84
		2503.5 (39725)	22.60	21.60	20.53	19.05

20MHz	1RB-High (99)	2680 (41490)	24.00	23.23	21.98	18.99
		2636.5(41055)	23.82	22.90	21.83	18.92
		2593 (40620)	24.03	23.20	21.79	19.05
		2549.5(40185)	23.82	22.75	21.51	18.78
		2506 (39750)	23.72	22.66	21.45	18.78
	1RB-Middle (50)	2680 (41490)	24.06	23.05	21.96	18.66
		2636.5(41055)	23.90	22.94	21.89	19.01
		2593 (40620)	23.91	22.93	21.03	18.91
		2549.5(40185)	23.82	22.74	21.56	18.86
		2506 (39750)	23.58	22.63	21.50	18.97
	1RB-Low (0)	2680 (41490)	24.06	23.06	21.92	19.05
		2636.5(41055)	23.98	23.08	21.87	18.84
		2593 (40620)	24.09	23.07	21.86	18.88
		2549.5(40185)	23.69	22.82	21.52	18.65
		2506 (39750)	23.48	22.33	21.56	18.74
	50RB-High (50)	2680 (41490)	23.12	22.17	20.91	18.65
		2636.5(41055)	22.97	22.02	20.92	18.99
		2593 (40620)	23.16	22.15	20.97	18.70
		2549.5(40185)	22.84	21.85	20.62	18.92
		2506 (39750)	22.65	21.64	20.51	18.91
	50RB-Middle (25)	2680 (41490)	23.10	22.16	20.90	18.99
		2636.5(41055)	23.07	22.11	20.96	18.91
		2593 (40620)	22.97	21.94	19.98	18.65
		2549.5(40185)	22.86	21.87	20.65	19.02
		2506 (39750)	22.68	21.66	20.59	18.91
	50RB-Low (0)	2680 (41490)	23.05	22.14	20.92	18.73
		2636.5(41055)	23.00	22.05	20.98	18.70
		2593 (40620)	23.12	22.15	20.88	18.95
		2549.5(40185)	22.80	21.84	20.58	18.67
		2506 (39750)	22.54	21.53	20.46	18.82
	100RB (0)	2680 (41490)	23.10	22.12	20.96	18.81
		2636.5(41055)	23.00	22.06	20.99	18.77
		2593 (40620)	23.08	22.11	20.91	18.77
		2549.5(40185)	22.86	21.86	20.61	18.83
		2506 (39750)	22.62	21.62	20.50	18.97

LTE Band41-PC3 ANT1 (Power Level B1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	21.33	21.32	21.23	18.87
		2640.3(41093)	21.01	20.93	20.93	18.55
		2593 (40620)	21.13	21.24	20.98	18.91
		2545.8(40148)	20.76	20.80	20.68	19.02
		2498.5 (39675)	20.68	20.73	20.53	18.64
	1RB-Middle (12)	2687.5 (41565)	21.35	21.43	21.17	18.71
		2640.3(41093)	21.06	21.11	21.16	18.93
		2593 (40620)	21.13	21.17	21.13	18.62
		2545.8(40148)	20.73	20.80	20.64	19.03
		2498.5 (39675)	20.69	20.63	20.67	18.88
	1RB-Low (0)	2687.5 (41565)	21.32	21.15	21.17	18.66
		2640.3(41093)	21.02	21.01	20.84	18.60
		2593 (40620)	21.12	21.02	20.95	18.81
		2545.8(40148)	20.69	20.63	20.64	18.57
		2498.5 (39675)	20.73	20.63	20.75	18.76
	12RB-High (13)	2687.5 (41565)	21.34	21.41	21.38	19.01
		2640.3(41093)	21.07	21.07	21.07	18.56
		2593 (40620)	21.19	21.15	21.18	18.80
		2545.8(40148)	20.79	20.71	20.83	18.72
		2498.5 (39675)	20.70	20.68	20.71	18.94
	12RB-Middle (6)	2687.5 (41565)	21.40	21.40	21.42	18.85
		2640.3(41093)	21.03	21.03	21.04	18.98
		2593 (40620)	21.16	21.16	21.18	19.02
		2545.8(40148)	20.81	20.77	20.82	18.75
		2498.5 (39675)	20.76	20.79	20.82	18.90
	12RB-Low (0)	2687.5 (41565)	21.26	21.28	21.30	18.94
		2640.3(41093)	21.01	21.00	21.02	18.90
		2593 (40620)	21.13	21.20	21.15	18.75
		2545.8(40148)	20.71	20.74	20.72	19.01
		2498.5 (39675)	20.74	20.73	20.76	18.97
	25RB (0)	2687.5 (41565)	21.37	21.36	21.39	18.70
		2640.3(41093)	21.02	21.03	21.02	18.89
		2593 (40620)	21.11	21.12	21.15	18.74
		2545.8(40148)	20.79	20.85	20.79	18.96
		2498.5 (39675)	20.76	20.76	20.76	18.80

10MHz	1RB-High (49)	2685 (41540)	21.29	21.28	21.27	18.93
		2639(41080)	20.99	21.15	20.99	18.65
		2593 (40620)	21.08	21.24	21.00	19.04
		2547(40160)	20.65	20.76	20.70	19.02
		2501 (39700)	20.62	20.64	20.41	18.99
	1RB-Middle (24)	2685 (41540)	21.31	21.36	21.27	18.90
		2639(41080)	21.04	21.10	20.99	18.66
		2593 (40620)	21.23	21.31	21.14	18.62
		2547(40160)	20.77	20.77	20.56	18.99
		2501 (39700)	20.70	20.71	20.74	18.60
	1RB-Low (0)	2685 (41540)	21.29	21.24	21.10	18.81
		2639(41080)	21.03	21.02	20.98	18.80
		2593 (40620)	21.13	21.12	21.13	18.76
		2547(40160)	20.72	20.70	20.67	18.56
		2501 (39700)	20.64	20.71	20.62	18.63
	25RB-High (25)	2685 (41540)	21.38	21.38	21.38	18.89
		2639(41080)	21.09	21.14	21.16	19.01
		2593 (40620)	21.19	21.20	21.26	19.05
		2547(40160)	20.82	20.85	20.83	19.05
		2501 (39700)	20.76	20.73	20.78	18.89
	25RB-Middle (12)	2685 (41540)	21.30	21.33	21.33	18.91
		2639(41080)	21.09	21.05	21.10	19.02
		2593 (40620)	21.17	21.17	21.19	19.01
		2547(40160)	20.84	20.85	20.88	18.70
		2501 (39700)	20.81	20.78	20.83	18.89
	25RB-Low (0)	2685 (41540)	21.33	21.31	21.33	18.89
		2639(41080)	21.06	21.09	21.10	18.92
		2593 (40620)	21.17	21.14	21.20	18.79
		2547(40160)	20.73	20.78	20.78	18.88
		2501 (39700)	20.76	20.77	20.79	18.91
	50RB (0)	2685 (41540)	21.35	21.35	21.28	18.67
		2639(41080)	21.08	21.08	21.11	18.71
		2593 (40620)	21.15	21.22	21.19	18.72
		2547(40160)	20.86	20.88	20.88	18.70
		2501 (39700)	20.79	20.80	20.79	19.05

15MHz	1RB-High (74)	2682.5 (41515)	21.09	21.08	21.17	18.55
		2637.8(41068)	20.81	20.71	20.70	18.56
		2593 (40620)	20.98	20.91	20.80	18.92
		2548.3(40173)	20.64	20.67	20.39	18.65
		2503.5 (39725)	20.49	20.53	20.40	19.05
	1RB-Middle (37)	2682.5 (41515)	21.13	21.11	21.10	18.66
		2637.8(41068)	20.92	20.76	20.73	18.86
		2593 (40620)	21.02	21.12	20.90	18.84
		2548.3(40173)	20.58	20.70	20.54	18.87
		2503.5 (39725)	20.58	20.61	20.34	18.79
	1RB-Low (0)	2682.5 (41515)	21.12	21.01	21.10	18.97
		2637.8(41068)	20.90	20.89	20.73	18.67
		2593 (40620)	20.95	21.02	20.87	18.62
		2548.3(40173)	20.57	20.73	20.58	18.84
		2503.5 (39725)	20.49	20.45	20.27	18.95
	36RB-High (38)	2682.5 (41515)	21.20	21.15	21.19	18.93
		2637.8(41068)	20.93	20.90	20.90	18.88
		2593 (40620)	21.02	21.04	21.01	19.04
		2548.3(40173)	20.64	20.62	20.62	18.85
		2503.5 (39725)	20.62	20.57	20.58	18.80
	36RB-Middle (19)	2682.5 (41515)	21.22	21.20	21.18	19.01
		2637.8(41068)	20.96	20.98	20.96	18.64
		2593 (40620)	20.97	20.96	20.95	19.02
		2548.3(40173)	20.66	20.64	20.69	18.66
		2503.5 (39725)	20.63	20.54	20.58	18.82
	36RB-Low (0)	2682.5 (41515)	21.09	21.15	21.11	18.83
		2637.8(41068)	20.91	20.87	20.92	18.97
		2593 (40620)	20.98	20.99	20.97	18.72
		2548.3(40173)	20.56	20.58	20.62	19.02
		2503.5 (39725)	20.56	20.52	20.49	18.67
	75RB (0)	2682.5 (41515)	21.19	21.17	21.14	18.91
		2637.8(41068)	20.94	20.95	20.95	18.67
		2593 (40620)	20.98	20.99	20.95	19.01
		2548.3(40173)	20.66	20.65	20.64	19.04
		2503.5 (39725)	20.62	20.60	20.55	18.96

20MHz	1RB-High (99)	2680 (41490)	21.26	21.20	21.08	18.75
		2636.5(41055)	21.06	21.02	20.94	19.02
		2593 (40620)	21.11	20.92	20.92	18.81
		2549.5(40185)	20.72	20.63	20.69	18.87
		2506 (39750)	20.68	20.68	20.52	18.91
	1RB-Middle (50)	2680 (41490)	21.27	21.29	21.11	18.87
		2636.5(41055)	21.15	21.15	21.06	18.70
		2593 (40620)	21.11	21.15	21.10	18.78
		2549.5(40185)	20.79	20.79	20.74	18.82
		2506 (39750)	20.66	20.58	20.64	18.99
	1RB-Low (0)	2680 (41490)	21.26	21.21	21.27	18.86
		2636.5(41055)	21.21	21.10	20.93	18.75
		2593 (40620)	21.08	21.06	21.15	18.95
		2549.5(40185)	20.71	20.71	20.49	19.04
		2506 (39750)	20.70	20.59	20.51	18.89
	50RB-High (50)	2680 (41490)	21.36	21.31	21.25	18.70
		2636.5(41055)	21.06	21.05	21.02	18.62
		2593 (40620)	21.17	21.11	21.10	18.82
		2549.5(40185)	20.80	20.74	20.77	19.01
		2506 (39750)	20.75	20.71	20.62	18.86
	50RB-Middle (25)	2680 (41490)	21.32	21.26	21.21	18.74
		2636.5(41055)	21.13	21.17	21.07	18.95
		2593 (40620)	21.16	21.18	21.08	18.80
		2549.5(40185)	20.83	20.79	20.76	18.98
		2506 (39750)	20.83	20.71	20.65	18.59
	50RB-Low (0)	2680 (41490)	21.28	21.25	21.18	18.76
		2636.5(41055)	21.09	21.06	21.03	18.60
		2593 (40620)	21.10	21.11	21.04	18.60
		2549.5(40185)	20.76	20.67	20.65	18.84
		2506 (39750)	20.69	20.56	20.55	18.62
	100RB (0)	2680 (41490)	21.26	21.23	21.17	18.69
		2636.5(41055)	21.11	21.06	21.04	18.59
		2593 (40620)	21.13	21.07	21.03	18.61
		2549.5(40185)	20.82	20.79	20.74	18.57
		2506 (39750)	20.80	20.69	20.60	18.88

LTE Band41-PC3 ANT1 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	20.27	20.33	20.35	18.81
		2640.3(41093)	19.97	20.12	20.06	18.79
		2593 (40620)	20.10	20.23	20.09	18.85
		2545.8(40148)	19.80	19.72	19.72	18.94
		2498.5 (39675)	19.77	19.78	19.71	18.77
	1RB-Middle (12)	2687.5 (41565)	20.32	20.41	20.38	18.55
		2640.3(41093)	20.10	20.07	20.00	18.79
		2593 (40620)	20.30	20.23	20.02	18.76
		2545.8(40148)	19.80	19.80	19.66	18.77
		2498.5 (39675)	19.79	19.68	19.75	18.97
	1RB-Low (0)	2687.5 (41565)	20.30	20.27	20.33	18.75
		2640.3(41093)	20.09	19.99	19.93	18.65
		2593 (40620)	20.16	20.16	20.08	18.64
		2545.8(40148)	19.71	19.71	19.71	18.93
		2498.5 (39675)	19.77	19.78	19.80	18.80
	12RB-High (13)	2687.5 (41565)	20.38	20.36	20.39	18.94
		2640.3(41093)	20.12	20.05	20.13	18.89
		2593 (40620)	20.24	20.23	20.25	18.70
		2545.8(40148)	19.83	19.82	19.85	18.59
		2498.5 (39675)	19.81	19.75	19.80	18.95
	12RB-Middle (6)	2687.5 (41565)	20.40	20.42	20.48	18.86
		2640.3(41093)	20.08	20.06	20.06	18.58
		2593 (40620)	20.17	20.19	20.23	18.87
		2545.8(40148)	19.87	19.82	19.83	18.58
		2498.5 (39675)	19.85	19.80	19.81	18.84
	12RB-Low (0)	2687.5 (41565)	20.32	20.27	20.36	18.61
		2640.3(41093)	20.09	20.01	20.12	18.77
		2593 (40620)	20.20	20.13	20.20	18.65
		2545.8(40148)	19.75	19.79	19.78	18.75
		2498.5 (39675)	19.81	19.79	19.77	18.80
	25RB (0)	2687.5 (41565)	20.43	20.41	20.42	18.56
		2640.3(41093)	20.04	20.07	20.06	18.66
		2593 (40620)	20.18	20.18	20.17	18.92
		2545.8(40148)	19.85	19.79	19.81	18.69
		2498.5 (39675)	19.81	19.83	19.79	18.88

10MHz	1RB-High (49)	2685 (41540)	20.33	20.35	20.34	18.62
		2639(41080)	20.05	19.91	20.08	18.82
		2593 (40620)	20.17	20.09	19.99	18.96
		2547(40160)	19.77	19.88	19.79	18.77
		2501 (39700)	19.73	19.70	19.65	18.70
	1RB-Middle (24)	2685 (41540)	20.35	20.35	20.36	18.95
		2639(41080)	20.07	20.00	20.09	18.65
		2593 (40620)	20.22	20.16	20.05	18.55
		2547(40160)	19.78	19.82	19.77	18.91
		2501 (39700)	19.79	19.83	19.59	18.55
	1RB-Low (0)	2685 (41540)	20.31	20.20	20.25	18.73
		2639(41080)	20.05	20.05	20.09	18.56
		2593 (40620)	20.19	20.10	20.10	18.72
		2547(40160)	19.73	19.73	19.63	18.80
		2501 (39700)	19.77	19.82	19.70	18.61
	25RB-High (25)	2685 (41540)	20.39	20.45	20.44	18.93
		2639(41080)	20.10	20.11	20.12	18.83
		2593 (40620)	20.23	20.24	20.27	18.85
		2547(40160)	19.87	19.78	19.83	18.84
		2501 (39700)	19.80	19.78	19.76	18.57
	25RB-Middle (12)	2685 (41540)	20.32	20.37	20.36	18.72
		2639(41080)	20.08	20.08	20.06	18.93
		2593 (40620)	20.22	20.19	20.18	18.95
		2547(40160)	19.86	19.88	19.84	18.91
		2501 (39700)	19.84	19.81	19.82	18.78
	25RB-Low (0)	2685 (41540)	20.31	20.32	20.31	18.72
		2639(41080)	20.08	20.08	20.06	18.94
		2593 (40620)	20.17	20.18	20.20	18.61
		2547(40160)	19.76	19.77	19.80	18.98
		2501 (39700)	19.80	19.78	19.81	18.77
	50RB (0)	2685 (41540)	20.33	20.39	20.39	18.64
		2639(41080)	20.08	20.12	20.09	18.57
		2593 (40620)	20.21	20.21	20.15	18.88
		2547(40160)	19.87	19.88	19.87	18.76
		2501 (39700)	19.87	19.82	19.80	18.72

15MHz	1RB-High (74)	2682.5 (41515)	20.04	20.33	20.05	19.05
		2637.8(41068)	19.84	19.74	19.66	18.58
		2593 (40620)	19.95	20.06	19.74	18.58
		2548.3(40173)	19.67	19.64	19.60	18.98
		2503.5 (39725)	19.44	19.46	19.49	18.99
	1RB-Middle (37)	2682.5 (41515)	20.19	20.02	19.99	18.66
		2637.8(41068)	19.94	19.86	19.82	18.77
		2593 (40620)	19.96	20.15	19.96	18.81
		2548.3(40173)	19.63	19.51	19.51	18.71
		2503.5 (39725)	19.55	19.52	19.55	18.66
	1RB-Low (0)	2682.5 (41515)	20.07	20.06	20.12	18.95
		2637.8(41068)	19.89	19.95	19.83	19.03
		2593 (40620)	19.99	20.09	19.97	18.66
		2548.3(40173)	19.54	19.46	19.42	18.81
		2503.5 (39725)	19.53	19.39	19.30	18.68
	36RB-High (38)	2682.5 (41515)	20.14	20.18	20.16	18.66
		2637.8(41068)	19.91	19.90	19.94	18.66
		2593 (40620)	20.06	20.03	20.01	18.55
		2548.3(40173)	19.67	19.63	19.68	18.60
		2503.5 (39725)	19.60	19.62	19.59	18.69
	36RB-Middle (19)	2682.5 (41515)	20.15	20.18	20.24	18.62
		2637.8(41068)	19.97	19.94	19.91	18.94
		2593 (40620)	19.97	19.98	19.96	19.00
		2548.3(40173)	19.68	19.61	19.68	18.56
		2503.5 (39725)	19.57	19.60	19.59	18.95
	36RB-Low (0)	2682.5 (41515)	20.09	20.05	20.11	18.90
		2637.8(41068)	19.91	19.82	19.87	18.87
		2593 (40620)	19.98	19.96	20.01	19.00
		2548.3(40173)	19.60	19.52	19.58	19.00
		2503.5 (39725)	19.50	19.47	19.52	18.71
	75RB (0)	2682.5 (41515)	20.15	20.16	20.18	18.62
		2637.8(41068)	19.96	19.96	19.96	18.91
		2593 (40620)	19.97	19.97	19.95	18.60
		2548.3(40173)	19.68	19.66	19.62	18.69
		2503.5 (39725)	19.59	19.58	19.57	18.66

20MHz	1RB-High (99)	2680 (41490)	20.12	20.08	20.01	19.00
		2636.5(41055)	19.79	19.69	19.68	18.84
		2593 (40620)	19.88	19.98	19.89	18.97
		2549.5(40185)	19.62	19.38	19.59	18.91
		2506 (39750)	19.49	19.45	19.59	18.82
	1RB-Middle (50)	2680 (41490)	20.06	20.15	19.95	18.61
		2636.5(41055)	19.93	20.04	19.76	18.64
		2593 (40620)	20.02	19.95	20.01	18.61
		2549.5(40185)	19.56	19.58	19.62	18.59
		2506 (39750)	19.52	19.44	19.61	18.59
	1RB-Low (0)	2680 (41490)	20.03	19.90	20.00	18.88
		2636.5(41055)	19.98	19.96	19.82	19.04
		2593 (40620)	19.94	19.91	19.88	19.02
		2549.5(40185)	19.60	19.52	19.49	18.76
		2506 (39750)	19.45	19.59	19.29	18.98
	50RB-High (50)	2680 (41490)	20.15	20.15	20.08	18.66
		2636.5(41055)	19.87	19.90	19.91	18.82
		2593 (40620)	19.99	19.93	19.93	18.72
		2549.5(40185)	19.65	19.61	19.61	18.68
		2506 (39750)	19.59	19.56	19.51	18.65
	50RB-Middle (25)	2680 (41490)	20.06	20.12	20.07	18.74
		2636.5(41055)	19.94	19.95	19.98	18.66
		2593 (40620)	19.97	19.96	19.98	18.75
		2549.5(40185)	19.71	19.69	19.66	18.57
		2506 (39750)	19.55	19.64	19.59	18.64
	50RB-Low (0)	2680 (41490)	20.02	20.11	20.02	18.72
		2636.5(41055)	19.89	19.84	19.93	18.63
		2593 (40620)	19.95	19.97	19.96	18.81
		2549.5(40185)	19.60	19.56	19.55	18.77
		2506 (39750)	19.51	19.51	19.48	18.64
	100RB (0)	2680 (41490)	20.08	20.08	20.09	19.04
		2636.5(41055)	19.92	19.96	19.95	19.04
		2593 (40620)	19.95	19.95	19.97	18.71
		2549.5(40185)	19.69	19.65	19.71	18.63
		2506 (39750)	19.58	19.59	19.58	18.82

LTE Band66 ANT1 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	23.70	22.94	22.83	18.44
		1745 (132322)	23.48	23.02	22.57	18.51
		1710.7 (131979)	23.39	22.64	22.56	18.38
	1RB-Middle (3)	1779.3 (132665)	23.73	23.13	22.84	18.73
		1745 (132322)	23.53	22.97	22.79	18.73
		1710.7 (131979)	23.47	22.75	22.66	18.54
	1RB-Low (0)	1779.3 (132665)	23.64	23.09	22.83	18.48
		1745 (132322)	23.67	23.00	22.63	18.80
		1710.7 (131979)	23.42	22.84	22.60	18.57
	3RB-High (3)	1779.3 (132665)	23.74	23.02	22.86	18.47
		1745 (132322)	23.62	22.77	22.58	18.46
		1710.7 (131979)	23.44	22.56	22.55	18.69
	3RB-Middle (1)	1779.3 (132665)	23.73	22.91	22.81	18.45
		1745 (132322)	23.61	22.76	22.60	18.32
		1710.7 (131979)	23.52	22.56	22.54	18.40
	3RB-Low (0)	1779.3 (132665)	23.73	22.96	22.79	18.51
		1745 (132322)	23.61	22.60	22.62	18.62
		1710.7 (131979)	23.51	22.63	22.54	18.64
	6RB (0)	1779.3 (132665)	22.76	21.87	21.78	18.30
		1745 (132322)	22.50	21.65	21.54	18.52
		1710.7 (131979)	22.49	21.56	20.50	18.68
3MHz	1RB-High (14)	1778.5 (132657)	23.66	23.13	22.78	18.39
		1745 (132322)	23.52	22.77	22.60	18.64
		1711.5 (131987)	23.41	22.70	22.54	18.58
	1RB-Middle (7)	1778.5 (132657)	23.84	23.19	22.80	18.79
		1745 (132322)	23.60	22.94	22.81	18.78
		1711.5 (131987)	23.49	22.78	22.51	18.74
	1RB-Low (0)	1778.5 (132657)	23.69	23.09	22.85	18.32
		1745 (132322)	23.47	22.74	22.68	18.43
		1711.5 (131987)	23.35	22.72	22.60	18.42
	8RB-High (7)	1778.5 (132657)	22.73	21.83	21.83	18.61
		1745 (132322)	22.66	21.66	21.78	18.52
		1711.5 (131987)	22.50	21.59	21.53	18.36
	8RB-Middle (4)	1778.5 (132657)	22.74	21.90	21.88	18.34
		1745 (132322)	22.56	21.69	21.66	18.64
		1711.5 (131987)	22.51	21.58	21.52	18.48
	8RB-Low (0)	1778.5 (132657)	22.79	21.84	21.83	18.80
		1745 (132322)	22.61	21.66	21.65	18.76
		1711.5 (131987)	22.51	21.53	21.57	18.77
	15RB (0)	1778.5 (132657)	22.77	21.84	21.83	18.49
		1745 (132322)	22.60	21.60	21.66	18.77
		1711.5 (131987)	22.50	21.58	21.46	18.55

5MHz	1RB-High (24)	1777.5 (132647)	23.76	23.07	22.92	18.43
		1745 (132322)	23.45	22.87	22.76	18.30
		1712.5 (131997)	23.35	22.88	22.64	18.64
	1RB-Middle (12)	1777.5 (132647)	23.74	23.07	22.79	18.72
		1745 (132322)	23.71	22.86	22.87	18.68
		1712.5 (131997)	23.46	22.76	22.50	18.59
	1RB-Low (0)	1777.5 (132647)	23.67	22.95	22.90	18.43
		1745 (132322)	23.52	23.02	22.67	18.55
		1712.5 (131997)	23.41	22.97	22.56	18.31
	12RB-High (13)	1777.5 (132647)	22.77	21.92	21.83	18.77
		1745 (132322)	22.69	21.75	21.65	18.64
		1712.5 (131997)	22.51	21.61	21.50	18.40
	12RB-Middle (6)	1777.5 (132647)	22.75	21.75	21.74	18.43
		1745 (132322)	22.59	21.76	21.64	18.56
		1712.5 (131997)	22.52	21.63	21.62	18.45
	12RB-Low (0)	1777.5 (132647)	22.76	21.76	21.77	18.59
		1745 (132322)	22.63	21.61	21.68	18.71
		1712.5 (131997)	22.41	21.50	21.58	18.77
	25RB (0)	1777.5 (132647)	22.74	21.77	21.71	18.58
		1745 (132322)	22.58	21.60	21.61	18.34
		1712.5 (131997)	22.50	21.58	20.63	18.45
10MHz	1RB-High (49)	1775 (132622)	23.67	22.95	22.83	18.74
		1745 (132322)	23.59	22.81	22.80	18.41
		1715 (132022)	23.42	22.66	22.64	18.49
	1RB-Middle (24)	1775 (132622)	23.74	23.03	22.68	18.37
		1745 (132322)	23.60	22.89	22.67	18.36
		1715 (132022)	23.57	22.75	22.72	18.55
	1RB-Low (0)	1775 (132622)	23.61	23.02	22.84	18.49
		1745 (132322)	23.52	22.94	22.89	18.47
		1715 (132022)	23.47	22.78	22.77	18.33
	25RB-High (25)	1775 (132622)	22.80	21.85	21.78	18.39
		1745 (132322)	22.67	21.71	21.68	18.55
		1715 (132022)	22.53	21.57	21.48	18.42
	25RB-Middle (12)	1775 (132622)	22.77	21.76	21.78	18.45
		1745 (132322)	22.71	21.61	21.60	18.67
		1715 (132022)	22.58	21.62	21.65	18.66
	25RB-Low (0)	1775 (132622)	22.70	21.75	21.69	18.48
		1745 (132322)	22.60	21.59	21.63	18.41
		1715 (132022)	22.46	21.57	21.47	18.49
	50RB (0)	1775 (132622)	22.72	21.76	21.76	18.58
		1745 (132322)	22.57	21.68	21.58	18.74
		1715 (132022)	22.59	21.63	21.57	18.36

15MHz	1RB-High (74)	1772.5 (132597)	23.45	22.66	22.64	18.74
		1745 (132322)	23.35	22.46	22.54	18.76
		1717.5 (132047)	23.12	22.36	22.37	18.80
	1RB-Middle (37)	1772.5 (132597)	23.53	22.72	22.93	18.61
		1745 (132322)	23.42	22.61	22.71	18.58
		1717.5 (132047)	23.18	22.38	22.53	18.75
	1RB-Low (0)	1772.5 (132597)	23.40	22.60	22.76	18.60
		1745 (132322)	23.34	22.57	22.56	18.49
		1717.5 (132047)	23.23	22.68	22.44	18.59
	36RB-High (38)	1772.5 (132597)	22.66	21.58	21.60	18.78
		1745 (132322)	22.43	21.44	21.45	18.31
		1717.5 (132047)	22.25	21.28	21.36	18.65
	36RB-Middle (19)	1772.5 (132597)	22.52	21.57	21.46	18.55
		1745 (132322)	22.34	21.42	21.44	18.61
		1717.5 (132047)	22.36	21.40	21.31	18.30
	36RB-Low (0)	1772.5 (132597)	22.52	21.48	21.44	18.47
		1745 (132322)	22.43	21.45	21.46	18.48
		1717.5 (132047)	22.31	21.36	21.61	18.55
	75RB (0)	1772.5 (132597)	22.55	21.60	21.53	18.55
		1745 (132322)	22.30	21.39	21.40	18.43
		1717.5 (132047)	22.35	21.27	20.31	18.39
20MHz	1RB-High (99)	1770 (132572)	23.48	22.61	22.71	18.63
		1745 (132322)	23.25	22.48	22.54	18.79
		1720 (132072)	23.24	22.50	22.63	18.58
	1RB-Middle (50)	1770 (132572)	23.50	23.42	22.67	18.43
		1745 (132322)	23.57	22.83	22.60	18.39
		1720 (132072)	23.28	22.53	22.35	18.73
	1RB-Low (0)	1770 (132572)	23.40	23.01	22.42	18.40
		1745 (132322)	23.29	22.74	22.45	18.36
		1720 (132072)	23.27	22.56	22.17	18.45
	50RB-High (50)	1770 (132572)	22.54	21.54	21.44	18.58
		1745 (132322)	22.44	21.43	21.44	18.40
		1720 (132072)	22.31	21.43	21.31	18.53
	50RB-Middle (25)	1770 (132572)	22.49	21.52	21.49	18.41
		1745 (132322)	22.35	21.44	21.46	18.47
		1720 (132072)	22.32	21.34	21.36	18.59
	50RB-Low (0)	1770 (132572)	22.40	21.43	21.37	18.57
		1745 (132322)	22.43	21.41	21.41	18.36
		1720 (132072)	22.16	21.28	21.30	18.73
	100RB (0)	1770 (132572)	22.42	21.51	21.46	18.38
		1745 (132322)	22.29	21.37	21.37	18.61
		1720 (132072)	22.35	21.41	21.27	18.58

LTE Band66 ANT1 (Power Level B1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	21.74	21.71	21.87	18.40
		1745 (132322)	21.52	21.52	21.64	18.77
		1710.7 (131979)	21.44	21.48	21.60	18.43
	1RB-Middle (3)	1779.3 (132665)	21.73	21.78	21.89	18.47
		1745 (132322)	21.56	21.58	21.71	18.44
		1710.7 (131979)	21.56	21.68	21.71	18.71
	1RB-Low (0)	1779.3 (132665)	21.75	21.84	21.88	18.56
		1745 (132322)	21.64	21.46	21.68	18.55
		1710.7 (131979)	21.55	21.40	21.60	18.41
	3RB-High (3)	1779.3 (132665)	21.79	21.66	21.88	18.68
		1745 (132322)	21.57	21.38	21.59	18.63
		1710.7 (131979)	21.52	21.24	21.60	18.76
	3RB-Middle (1)	1779.3 (132665)	21.82	21.51	21.83	18.60
		1745 (132322)	21.58	21.31	21.68	18.75
		1710.7 (131979)	21.52	21.34	21.63	18.80
	3RB-Low (0)	1779.3 (132665)	21.77	21.65	21.92	18.69
		1745 (132322)	21.54	21.38	21.61	18.55
		1710.7 (131979)	21.52	21.44	21.64	18.64
	6RB (0)	1779.3 (132665)	21.79	21.50	21.84	18.49
		1745 (132322)	21.54	21.22	21.46	18.46
		1710.7 (131979)	21.55	21.25	21.51	18.64
3MHz	1RB-High (14)	1778.5 (132657)	21.75	21.87	22.00	18.66
		1745 (132322)	21.41	21.54	21.65	18.77
		1711.5 (131987)	21.40	21.53	21.72	18.40
	1RB-Middle (7)	1778.5 (132657)	21.82	21.87	21.69	18.37
		1745 (132322)	21.64	21.63	21.69	18.64
		1711.5 (131987)	21.59	21.75	21.85	18.68
	1RB-Low (0)	1778.5 (132657)	21.84	21.71	21.97	18.51
		1745 (132322)	21.50	21.43	21.53	18.45
		1711.5 (131987)	21.48	21.55	21.58	18.72
	8RB-High (7)	1778.5 (132657)	21.86	21.65	21.91	18.56
		1745 (132322)	21.65	21.35	21.67	18.66
		1711.5 (131987)	21.60	21.37	21.65	18.47
	8RB-Middle (4)	1778.5 (132657)	21.88	21.57	21.80	18.63
		1745 (132322)	21.55	21.24	21.60	18.60
		1711.5 (131987)	21.64	21.32	21.63	18.65
	8RB-Low (0)	1778.5 (132657)	21.85	21.54	21.91	18.57
		1745 (132322)	21.64	21.27	21.67	18.70
		1711.5 (131987)	21.64	21.39	21.62	18.48
	15RB (0)	1778.5 (132657)	21.85	21.54	21.87	18.63
		1745 (132322)	21.54	21.18	21.56	18.70
		1711.5 (131987)	21.61	21.30	21.67	18.57

5MHz	1RB-High (24)	1777.5 (132647)	21.78	21.94	21.87	18.38
		1745 (132322)	21.63	21.45	21.74	18.74
		1712.5 (131997)	21.47	21.40	21.62	18.40
	1RB-Middle (12)	1777.5 (132647)	21.77	21.88	21.77	18.57
		1745 (132322)	21.64	21.44	21.83	18.40
		1712.5 (131997)	21.68	21.65	21.67	18.35
	1RB-Low (0)	1777.5 (132647)	21.67	21.73	21.79	18.78
		1745 (132322)	21.58	21.58	21.70	18.54
		1712.5 (131997)	21.46	21.52	21.64	18.36
	12RB-High (13)	1777.5 (132647)	21.88	21.62	21.85	18.70
		1745 (132322)	21.73	21.36	21.68	18.65
		1712.5 (131997)	21.59	21.30	21.66	18.77
	12RB-Middle (6)	1777.5 (132647)	21.76	21.46	21.83	18.53
		1745 (132322)	21.60	21.28	21.60	18.58
		1712.5 (131997)	21.63	21.30	21.71	18.57
	12RB-Low (0)	1777.5 (132647)	21.82	21.47	21.81	18.65
		1745 (132322)	21.59	21.25	21.65	18.60
		1712.5 (131997)	21.54	21.24	21.58	18.48
	25RB (0)	1777.5 (132647)	21.76	21.51	21.86	18.65
		1745 (132322)	21.50	21.26	21.61	18.62
		1712.5 (131997)	21.60	21.28	21.64	18.39
10MHz	1RB-High (49)	1775 (132622)	21.77	21.78	21.93	18.57
		1745 (132322)	21.49	21.68	21.74	18.41
		1715 (132022)	21.53	21.31	21.57	18.71
	1RB-Middle (24)	1775 (132622)	21.73	21.71	21.84	18.53
		1745 (132322)	21.60	21.78	21.89	18.72
		1715 (132022)	21.53	21.49	21.66	18.38
	1RB-Low (0)	1775 (132622)	21.77	21.59	21.74	18.61
		1745 (132322)	21.45	21.59	21.64	18.59
		1715 (132022)	21.57	21.84	21.66	18.45
	25RB-High (25)	1775 (132622)	21.92	21.52	21.86	18.75
		1745 (132322)	21.65	21.38	21.70	18.62
		1715 (132022)	21.52	21.23	21.56	18.36
	25RB-Middle (12)	1775 (132622)	21.81	21.44	21.77	18.72
		1745 (132322)	21.64	21.29	21.60	18.57
		1715 (132022)	21.70	21.31	21.66	18.43
	25RB-Low (0)	1775 (132622)	21.68	21.34	21.76	18.78
		1745 (132322)	21.59	21.30	21.65	18.71
		1715 (132022)	21.59	21.18	21.62	18.80
	50RB (0)	1775 (132622)	21.87	21.53	21.78	18.72
		1745 (132322)	21.62	21.21	21.65	18.39
		1715 (132022)	21.72	21.35	21.67	18.35

15MHz	1RB-High (74)	1772.5 (132597)	21.67	21.73	21.87	18.76
		1745 (132322)	21.33	21.29	21.77	18.58
		1717.5 (132047)	21.27	21.34	21.61	18.57
	1RB-Middle (37)	1772.5 (132597)	21.51	21.64	21.56	18.38
		1745 (132322)	21.32	21.45	21.51	18.41
		1717.5 (132047)	21.42	21.23	21.42	18.45
	1RB-Low (0)	1772.5 (132597)	21.45	21.46	21.60	18.49
		1745 (132322)	21.35	21.45	21.70	18.41
		1717.5 (132047)	21.30	21.22	21.47	18.39
	36RB-High (38)	1772.5 (132597)	21.62	21.24	21.70	18.48
		1745 (132322)	21.41	21.14	21.47	18.53
		1717.5 (132047)	21.45	20.98	21.40	18.59
	36RB-Middle (19)	1772.5 (132597)	21.67	21.29	21.55	18.52
		1745 (132322)	21.37	21.03	21.48	18.79
		1717.5 (132047)	21.39	21.18	21.36	18.70
	36RB-Low (0)	1772.5 (132597)	21.57	21.23	21.46	18.70
		1745 (132322)	21.42	20.98	21.43	18.55
		1717.5 (132047)	21.37	21.21	21.41	18.39
	75RB (0)	1772.5 (132597)	21.58	21.25	21.58	18.70
		1745 (132322)	21.39	21.07	21.41	18.47
		1717.5 (132047)	21.48	21.09	21.43	18.55
20MHz	1RB-High (99)	1770 (132572)	21.51	21.55	21.74	18.75
		1745 (132322)	21.41	21.42	21.62	18.72
		1720 (132072)	21.36	21.20	21.61	18.63
	1RB-Middle (50)	1770 (132572)	21.59	21.40	21.84	18.68
		1745 (132322)	21.37	21.69	21.46	18.59
		1720 (132072)	21.34	21.63	21.60	18.54
	1RB-Low (0)	1770 (132572)	21.46	21.31	21.29	18.47
		1745 (132322)	21.39	21.22	21.21	18.54
		1720 (132072)	21.28	21.38	21.60	18.74
	50RB-High (50)	1770 (132572)	21.65	21.35	21.69	18.50
		1745 (132322)	21.39	21.10	21.44	18.70
		1720 (132072)	21.42	20.99	21.27	18.46
	50RB-Middle (25)	1770 (132572)	21.51	21.24	21.57	18.52
		1745 (132322)	21.48	21.13	21.32	18.52
		1720 (132072)	21.40	21.11	21.42	18.64
	50RB-Low (0)	1770 (132572)	21.50	21.10	21.35	18.48
		1745 (132322)	21.41	21.15	21.47	18.63
		1720 (132072)	21.40	21.00	21.47	18.48
	100RB (0)	1770 (132572)	21.49	21.28	21.53	18.58
		1745 (132322)	21.36	21.10	21.35	18.48
		1720 (132072)	21.42	21.14	21.39	18.59

LTE Band66 ANT1 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	20.76	20.69	20.76	18.57
		1745 (132322)	20.63	20.66	20.33	18.64
		1710.7 (131979)	20.51	20.56	20.39	18.49
	1RB-Middle (3)	1779.3 (132665)	20.86	20.96	20.65	18.36
		1745 (132322)	20.58	20.60	20.42	18.42
		1710.7 (131979)	20.53	20.65	20.37	18.41
	1RB-Low (0)	1779.3 (132665)	20.78	20.72	20.62	18.52
		1745 (132322)	20.57	20.62	20.31	18.60
		1710.7 (131979)	20.50	20.55	20.27	18.73
	3RB-High (3)	1779.3 (132665)	20.86	20.60	20.58	18.58
		1745 (132322)	20.57	20.45	20.37	18.43
		1710.7 (131979)	20.59	20.38	20.27	18.51
	3RB-Middle (1)	1779.3 (132665)	20.74	20.49	20.61	18.55
		1745 (132322)	20.67	20.48	20.51	18.67
		1710.7 (131979)	20.61	20.35	20.35	18.40
	3RB-Low (0)	1779.3 (132665)	20.82	20.63	20.60	18.70
		1745 (132322)	20.56	20.32	20.41	18.49
		1710.7 (131979)	20.64	20.49	20.30	18.54
	6RB (0)	1779.3 (132665)	20.78	20.54	20.46	18.42
		1745 (132322)	20.55	20.31	20.22	18.39
		1710.7 (131979)	20.60	20.34	20.34	18.78
3MHz	1RB-High (14)	1778.5 (132657)	20.72	20.56	20.68	18.46
		1745 (132322)	20.48	20.54	20.29	18.71
		1711.5 (131987)	20.50	20.62	20.47	18.45
	1RB-Middle (7)	1778.5 (132657)	20.82	20.77	20.44	18.49
		1745 (132322)	20.66	20.66	20.42	18.74
		1711.5 (131987)	20.68	20.57	20.40	18.64
	1RB-Low (0)	1778.5 (132657)	20.77	20.80	20.53	18.53
		1745 (132322)	20.55	20.32	20.20	18.46
		1711.5 (131987)	20.62	20.58	20.22	18.38
	8RB-High (7)	1778.5 (132657)	20.90	20.57	20.54	18.72
		1745 (132322)	20.65	20.34	20.49	18.62
		1711.5 (131987)	20.61	20.40	20.30	18.57
	8RB-Middle (4)	1778.5 (132657)	20.91	20.62	20.56	18.70
		1745 (132322)	20.61	20.44	20.43	18.75
		1711.5 (131987)	20.66	20.34	20.31	18.66
	8RB-Low (0)	1778.5 (132657)	20.83	20.66	20.65	18.54
		1745 (132322)	20.57	20.37	20.23	18.67
		1711.5 (131987)	20.65	20.45	20.31	18.37
	15RB (0)	1778.5 (132657)	20.91	20.54	20.57	18.68
		1745 (132322)	20.64	20.35	20.27	18.70
		1711.5 (131987)	20.61	20.28	20.39	18.69

5MHz	1RB-High (24)	1777.5 (132647)	20.89	20.71	20.63	18.71
		1745 (132322)	20.55	20.64	20.51	18.65
		1712.5 (131997)	20.53	20.69	20.32	18.53
	1RB-Middle (12)	1777.5 (132647)	20.92	20.90	20.68	18.56
		1745 (132322)	20.68	20.57	20.35	18.60
		1712.5 (131997)	20.64	20.76	20.40	18.57
	1RB-Low (0)	1777.5 (132647)	20.80	20.89	20.53	18.60
		1745 (132322)	20.59	20.44	20.35	18.64
		1712.5 (131997)	20.53	20.59	20.11	18.35
	12RB-High (13)	1777.5 (132647)	20.85	20.62	20.59	18.59
		1745 (132322)	20.67	20.41	20.39	18.61
		1712.5 (131997)	20.65	20.35	20.33	18.74
	12RB-Middle (6)	1777.5 (132647)	20.80	20.60	20.52	18.57
		1745 (132322)	20.59	20.33	20.42	18.72
		1712.5 (131997)	20.70	20.38	20.38	18.69
	12RB-Low (0)	1777.5 (132647)	20.78	20.51	20.55	18.40
		1745 (132322)	20.64	20.41	20.37	18.57
		1712.5 (131997)	20.63	20.29	20.41	18.47
	25RB (0)	1777.5 (132647)	20.83	20.56	20.52	18.73
		1745 (132322)	20.61	20.30	20.27	18.50
		1712.5 (131997)	20.68	20.42	20.34	18.47
10MHz	1RB-High (49)	1775 (132622)	20.90	20.70	20.76	18.58
		1745 (132322)	20.56	20.50	20.33	18.74
		1715 (132022)	20.48	20.43	20.49	18.68
	1RB-Middle (24)	1775 (132622)	20.80	20.83	20.73	18.66
		1745 (132322)	20.63	20.78	20.43	18.48
		1715 (132022)	20.64	20.75	20.37	18.74
	1RB-Low (0)	1775 (132622)	20.73	20.84	20.52	18.59
		1745 (132322)	20.71	20.62	20.27	18.40
		1715 (132022)	20.65	20.58	20.42	18.57
	25RB-High (25)	1775 (132622)	20.91	20.62	20.57	18.63
		1745 (132322)	20.71	20.34	20.39	18.54
		1715 (132022)	20.60	20.37	20.36	18.72
	25RB-Middle (12)	1775 (132622)	20.80	20.56	20.46	18.76
		1745 (132322)	20.63	20.43	20.40	18.43
		1715 (132022)	20.70	20.38	20.43	18.47
	25RB-Low (0)	1775 (132622)	20.76	20.48	20.44	18.51
		1745 (132322)	20.66	20.39	20.37	18.56
		1715 (132022)	20.69	20.33	20.32	18.39
	50RB (0)	1775 (132622)	20.75	20.50	20.47	18.67
		1745 (132322)	20.66	20.35	20.36	18.52
		1715 (132022)	20.71	20.46	20.36	18.53

15MHz	1RB-High (74)	1772.5 (132597)	20.58	20.42	20.53	18.36
		1745 (132322)	20.50	20.35	20.20	18.70
		1717.5 (132047)	20.37	20.48	20.19	18.37
	1RB-Middle (37)	1772.5 (132597)	20.59	20.51	20.33	18.55
		1745 (132322)	20.47	20.49	20.42	18.44
		1717.5 (132047)	20.25	20.36	20.20	18.72
	1RB-Low (0)	1772.5 (132597)	20.40	20.48	20.16	18.41
		1745 (132322)	20.44	20.53	20.09	18.44
		1717.5 (132047)	20.40	20.48	20.18	18.36
	36RB-High (38)	1772.5 (132597)	20.60	20.37	20.37	18.78
		1745 (132322)	20.49	20.20	20.21	18.42
		1717.5 (132047)	20.32	19.96	20.13	18.42
	36RB-Middle (19)	1772.5 (132597)	20.64	20.34	20.44	18.50
		1745 (132322)	20.54	20.18	20.17	18.51
		1717.5 (132047)	20.49	20.23	20.13	18.77
	36RB-Low (0)	1772.5 (132597)	20.55	20.25	20.25	18.67
		1745 (132322)	20.44	20.12	20.12	18.61
		1717.5 (132047)	20.40	20.18	20.05	18.44
	75RB (0)	1772.5 (132597)	20.66	20.34	20.37	18.76
		1745 (132322)	20.47	20.16	20.12	18.57
		1717.5 (132047)	20.47	20.17	20.16	18.46
20MHz	1RB-High (99)	1770 (132572)	20.51	20.73	20.60	18.67
		1745 (132322)	20.42	20.44	20.37	18.47
		1720 (132072)	20.29	20.08	20.09	18.53
	1RB-Middle (50)	1770 (132572)	20.59	20.76	20.35	18.78
		1745 (132322)	20.60	20.39	20.35	18.41
		1720 (132072)	20.41	20.43	20.26	18.57
	1RB-Low (0)	1770 (132572)	20.44	20.24	20.59	18.47
		1745 (132322)	20.49	20.39	20.09	18.46
		1720 (132072)	20.44	20.70	20.41	18.52
	50RB-High (50)	1770 (132572)	20.61	20.39	20.32	18.39
		1745 (132322)	20.50	20.23	20.16	18.71
		1720 (132072)	20.49	20.16	20.28	18.53
	50RB-Middle (25)	1770 (132572)	20.58	20.25	20.25	18.44
		1745 (132322)	20.53	20.07	20.16	18.66
		1720 (132072)	20.54	20.26	20.25	18.41
	50RB-Low (0)	1770 (132572)	20.45	20.24	20.15	18.51
		1745 (132322)	20.46	20.12	20.15	18.77
		1720 (132072)	20.41	20.06	20.06	18.42
	100RB (0)	1770 (132572)	20.63	20.21	20.21	18.80
		1745 (132322)	20.39	20.13	20.16	18.57
		1720 (132072)	20.50	20.22	20.18	18.40

LTE Band71 ANT0 (Power Level A1/B1/C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	695.5 (133447)	23.63	21.90	21.74	18.70
		680.5 (133297)	23.54	21.65	21.92	18.68
		665.5 (133147)	23.41	21.74	21.75	18.57
	1RB-Middle (12)	695.5 (133447)	23.65	21.92	21.92	18.67
		680.5 (133297)	23.53	22.06	21.94	18.68
		665.5 (133147)	23.70	21.74	21.92	18.52
	1RB-Low (0)	695.5 (133447)	23.59	21.84	21.52	18.49
		680.5 (133297)	23.68	21.76	21.91	18.62
		665.5 (133147)	23.51	21.93	21.83	18.60
	12RB-High (13)	695.5 (133447)	22.66	21.84	20.83	18.76
		680.5 (133297)	22.69	21.75	20.71	18.74
		665.5 (133147)	21.60	21.65	20.46	18.48
	12RB-Middle (6)	695.5 (133447)	22.69	21.76	20.76	18.70
		680.5 (133297)	22.64	21.63	20.65	18.67
		665.5 (133147)	21.63	21.65	20.77	18.69
	12RB-Low (0)	695.5 (133447)	22.69	21.73	20.76	18.57
		680.5 (133297)	22.67	21.63	20.71	18.43
		665.5 (133147)	21.66	21.71	20.68	18.80
	25RB (0)	695.5 (133447)	22.60	21.73	20.68	18.77
		680.5 (133297)	22.58	21.65	20.64	18.80
		665.5 (133147)	21.61	21.69	20.59	18.50
10MHz	1RB-High (49)	693 (133422)	23.64	22.66	21.65	18.50
		680.5 (133297)	23.47	22.73	21.80	18.63
		668 (133172)	23.56	23.00	21.72	18.64
	1RB-Middle (24)	693 (133422)	23.69	22.52	21.83	18.56
		680.5 (133297)	23.55	22.41	21.79	18.45
		668 (133172)	23.73	22.75	21.87	18.40
	1RB-Low (0)	693 (133422)	23.68	22.69	21.85	18.60
		680.5 (133297)	23.55	22.93	21.92	18.59
		668 (133172)	23.67	22.85	21.62	18.47
	25RB-High (25)	693 (133422)	22.72	21.71	20.84	18.56
		680.5 (133297)	22.59	21.68	20.77	18.43
		668 (133172)	22.71	21.67	20.75	18.69
	25RB-Middle (12)	693 (133422)	22.73	21.68	20.79	18.78
		680.5 (133297)	22.62	21.74	20.82	18.43
		668 (133172)	22.71	21.68	20.72	18.60
	25RB-Low (0)	693 (133422)	22.64	21.72	20.82	18.56
		680.5 (133297)	22.74	21.67	20.74	18.79
		668 (133172)	22.67	21.65	20.76	18.44
	50RB (0)	693 (133422)	22.63	21.71	20.63	18.49
		680.5 (133297)	22.64	21.70	20.75	18.58
		668 (133172)	22.51	21.71	20.77	18.43

15MHz	1RB-High (74)	690.5 (133397)	23.40	22.69	21.81	18.73
		680.5 (133297)	23.27	22.92	21.37	18.53
		670.5 (133197)	23.29	22.60	21.75	18.79
	1RB-Middle (37)	690.5 (133397)	23.40	22.75	21.63	18.61
		680.5 (133297)	23.43	22.68	21.53	18.80
		670.5 (133197)	23.45	22.75	21.91	18.60
	1RB-Low (0)	690.5 (133397)	23.49	22.79	21.65	18.74
		680.5 (133297)	23.57	22.58	21.79	18.46
		670.5 (133197)	23.38	22.60	21.69	18.52
	36RB-High (38)	690.5 (133397)	22.55	21.26	20.55	18.51
		680.5 (133297)	22.35	21.46	20.39	18.61
		670.5 (133197)	22.47	21.40	20.45	18.48
	36RB-Middle (19)	690.5 (133397)	22.41	21.42	20.53	18.51
		680.5 (133297)	22.48	21.49	20.63	18.59
		670.5 (133197)	22.49	21.45	20.44	18.80
	36RB-Low (0)	690.5 (133397)	22.51	21.46	20.56	18.47
		680.5 (133297)	22.48	21.50	20.54	18.76
		670.5 (133197)	22.44	21.49	20.53	18.66
	75RB (0)	690.5 (133397)	22.48	21.48	20.54	18.62
		680.5 (133297)	22.47	21.45	20.46	18.53
		670.5 (133197)	22.54	21.51	20.56	18.78
20MHz	1RB-High (99)	688 (133372)	23.56	22.44	21.74	18.58
		683 (133322)	23.36	22.69	21.90	18.66
		673 (133222)	23.37	22.64	21.56	18.74
	1RB-Middle (50)	688 (133372)	23.46	22.71	21.68	18.65
		683 (133322)	23.45	22.63	21.67	18.46
		673 (133222)	23.44	22.89	21.74	18.62
	1RB-Low (0)	688 (133372)	23.55	22.56	21.76	18.42
		683 (133322)	23.73	22.77	21.62	18.78
		673 (133222)	23.41	22.70	21.74	18.69
	50RB-High (50)	688 (133372)	22.60	21.50	20.45	18.43
		683 (133322)	22.46	21.52	20.59	18.55
		673 (133222)	22.44	21.48	20.52	18.79
	50RB-Middle (25)	688 (133372)	22.47	21.55	20.63	18.53
		683 (133322)	22.61	21.54	20.59	18.70
		673 (133222)	22.52	21.54	20.66	18.56
	50RB-Low (0)	688 (133372)	22.50	21.57	20.55	18.46
		683 (133322)	22.48	21.49	20.52	18.54
		673 (133222)	22.50	21.50	20.53	18.77
	100RB (0)	688 (133372)	22.48	21.56	20.66	18.61
		683 (133322)	22.53	21.45	20.53	18.42
		673 (133222)	22.68	21.69	20.54	18.63

11.4 NR Measurement result

N25 ANT1 (Power Level A1)

No.	Test Freq Description	5G-n25								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n25
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	24.00	23.05
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	24.00	23.07
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	24.00	23.03
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	24.00	23.06
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	24.00	23.06
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	24.00	23.02

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

No.	Test Freq Description	5G-n25								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n25
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	24.00	23.05
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	23.00	22.08
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.50	20.55
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	19.50	18.58
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	22.50	21.58
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	22.00	21.18
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	20.50	19.59
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	17.50	16.54
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	23.00	22.02
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	23.00	22.08
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	23.00	22.11
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	23.00	22.13
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	24.00	23.03
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	24.00	23.04
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	23.00	22.12
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	376500	24.00	23.05
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	24.00	23.02

N25 ANT1 (Power Level B1)

No.	Test Freq Description	5G-n25								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n25
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	22.00	20.95
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	22.00	20.97
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	22.00	20.93
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	22.00	20.96
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	22.00	20.96
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	22.00	20.92

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

No.	Test Freq Description	5G-n25								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n25
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	22.00	20.95
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	22.00	20.92
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	22.00	20.49
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	20.50	18.52
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	22.00	20.93
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	22.00	20.92
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.50	19.55
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	18.50	16.53
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	22.00	20.93
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	22.00	20.96
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	22.00	20.95
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	22.00	20.91
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	22.00	20.93
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	22.00	20.94
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	22.00	20.90
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	376500	22.00	20.95
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	22.00	20.90

N25 ANT1 (Power Level C1)

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	21.00	19.88
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	21.00	19.90
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	21.00	19.86
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	21.00	19.89
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	21.00	19.89
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	21.00	19.85

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	21.00	19.88
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	21.00	19.85
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.00	19.84
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	20.50	18.55
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	21.00	19.86
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	21.00	19.85
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.00	19.46
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	18.50	16.53
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	21.00	19.86
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	21.00	19.89
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	21.00	19.88
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	21.00	19.84
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	21.00	19.86
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	21.00	19.87
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	21.00	19.83
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	376500	21.00	19.88
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	21.00	19.83

N66 ANT1 (Power Level A1)

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	23.13
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	24.50	23.21
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	24.50	23.15
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1760	352000	24.50	23.10
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1745	349000	24.50	23.17
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1730	346000	24.50	23.18

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	23.16
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	23.50	22.17
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	22.00	20.66
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	20.00	18.63
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	23.00	21.65
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	22.50	21.30
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	21.00	19.75
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.00	16.52
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	23.50	22.03
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	23.50	22.02
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	23.50	22.05
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	23.50	22.07
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	23.03
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	23.50	22.15
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	24.50	23.17
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	24.50	23.15
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	24.50	23.12
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1745	349000	24.50	23.09
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1745	349000	24.50	23.11

N66 ANT1 (Power Level B1)

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	21.15
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	22.00	21.22
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	22.00	21.17
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1760	352000	22.00	21.12
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1745	349000	22.00	21.18
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1730	346000	22.00	21.19

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	21.17
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	22.00	21.17
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	20.50	18.63
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	22.00	21.15
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	22.00	21.12
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	21.50	19.75
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.50	16.52
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	22.00	21.14
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	22.00	21.13
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	22.00	21.16
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	22.00	21.11
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	22.00	21.07
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	22.00	21.06
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	22.00	21.15
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	22.00	21.18
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	22.00	21.17
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	22.00	21.14
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1745	349000	22.00	21.11
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1745	349000	22.00	21.13

N66 ANT1 (Power Level C1)

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	21.00	20.14
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	21.00	20.21
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	21.00	20.16
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1760	352000	21.00	20.11
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1745	349000	21.00	20.17
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1730	346000	21.00	20.18

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	21.00	20.11
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	21.00	20.16
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	21.00	20.17
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	20.50	18.57
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	21.00	20.14
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	21.00	20.11
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	21.00	19.71
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.50	16.52
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	21.00	20.13
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	21.00	20.12
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	21.00	20.15
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	21.00	20.11
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	21.00	20.07
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	21.00	20.06
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	21.00	20.14
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	21.00	20.16
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	21.00	20.12
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	21.00	20.13
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64-32	1745	349000	21.00	20.11
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1745	349000	21.00	20.12

N41 ANT1 (Power Level A1)

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	26.50	25.00
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2639	527799	26.50	25.03
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	26.50	25.23
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2455.02	509406	26.50	25.09
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500205	26.50	25.06
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	26.50	25.06
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	26.50	25.28
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	26.50	25.30
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	26.50	25.25
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	26.50	25.21

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	26.50	25.27
2	Middle2	30	100	DFT-s-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	25.50	24.33
3	Middle2	30	100	DFT-s-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	24.00	22.88
4	Middle2	30	100	DFT-s-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	22.00	20.86
5	Middle2	30	100	CP-OFDM QPSK	Inner_Full	135_67	2592.99	518598	25.00	23.85
6	Middle2	30	100	CP-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	24.50	23.38
7	Middle2	30	100	CP-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	23.00	21.91
8	Middle2	30	100	CP-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	20.00	18.89
9	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2_271	2592.99	518598	23.00	21.74
10	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	23.00	21.96
11	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1_272	2592.99	518598	23.00	21.87
12	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	23.00	21.93
13	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1_271	2592.99	518598	26.50	25.02
14	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	26.50	25.24
15	Middle	30	100	DFT-s-OFDM QPSK	Outer_Full	270_0	2592.99	518598	25.50	24.42
16	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	26.50	25.22
17	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	26.50	25.20
18	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	26.50	25.22
19	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	26.50	25.17
20	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	26.50	25.25
21	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	26.50	25.20
22	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	26.50	25.27
23	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	26.50	25.25
24	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	26.50	25.23

N41 ANT1 (Power Level B1)

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	23.00	22.35
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2639	527799	23.00	22.37
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	23.00	22.44
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2455.02	509406	23.00	22.31
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500205	23.00	22.32
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	23.00	22.40
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	23.00	22.48
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	23.00	22.50
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	23.00	22.45
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	23.00	22.42

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	23.00	22.43
2	Middle2	30	100	DFT-s-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	23.00	22.39
3	Middle2	30	100	DFT-s-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	23.00	22.41
4	Middle2	30	100	DFT-s-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	22.50	21.45
5	Middle2	30	100	CP-OFDM QPSK	Inner_Full	135_67	2592.99	518598	23.00	22.40
6	Middle2	30	100	CP-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	23.00	22.41
7	Middle2	30	100	CP-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	23.00	22.01
8	Middle2	30	100	CP-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	20.50	19.36
9	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2_271	2592.99	518598	23.00	21.75
10	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	23.00	21.73
11	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1_272	2592.99	518598	23.00	21.10
12	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	23.00	21.88
13	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1_271	2592.99	518598	23.00	22.17
14	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	23.00	22.40
15	Middle	30	100	DFT-s-OFDM QPSK	Outer_Full	270_0	2592.99	518598	23.00	22.38
16	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	23.00	22.38
17	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	23.00	22.37
18	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	23.00	22.38
19	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	23.00	22.34
20	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	23.00	22.41
21	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	23.00	22.37
22	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	23.00	22.43
23	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	23.00	22.41
24	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	23.00	22.39

N41 ANT1 (Power Level C1)

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n41
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2685	537000	22.00	21.37
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2639	527799	22.00	21.38
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	22.00	21.44
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2455.02	509406	22.00	21.32
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500205	22.00	21.34
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	22.00	21.31
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	22.00	21.48
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	22.00	21.51
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	22.00	21.45
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	22.00	21.42

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

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n41
1	Middle2	30	100	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135_67	2592.99	518598	22.00	21.44
2	Middle2	30	100	DFT-s-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	22.00	21.42
3	Middle2	30	100	DFT-s-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	22.00	21.44
4	Middle2	30	100	DFT-s-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	22.00	21.45
5	Middle2	30	100	CP-OFDM QPSK	Inner_Full	135_67	2592.99	518598	22.00	21.43
6	Middle2	30	100	CP-OFDM 16QAM	Inner_Full	135_67	2592.99	518598	22.00	21.44
7	Middle2	30	100	CP-OFDM 64QAM	Inner_Full	135_67	2592.99	518598	22.00	21.41
8	Middle2	30	100	CP-OFDM 256QAM	Inner_Full	135_67	2592.99	518598	20.50	19.53
9	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2_271	2592.99	518598	22.00	21.41
10	Middle	30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	22.00	21.39
11	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1_272	2592.99	518598	22.00	21.34
12	Middle	30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	22.00	21.44
13	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1_271	2592.99	518598	22.00	21.41
14	Middle	30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	22.00	21.43
15	Middle	30	100	DFT-s-OFDM QPSK	Outer_Full	270_0	2592.99	518598	22.00	21.41
16	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	22.00	21.41
17	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	22.00	21.40
18	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	22.00	21.41
19	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	22.00	21.38
20	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	22.00	21.44
21	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	22.00	21.40
22	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	22.00	21.46
23	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	22.00	21.44
24	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	22.00	21.42

N71 ANT0 (Power Level A1/B1/C1)

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.		n71
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	695.5	139100	24.00	23.24
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	680.5	136100	24.00	23.34
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	665.5	133100	24.00	23.25
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	688	137600	24.00	23.12
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	680.5	136100	24.00	23.18
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	673	134600	24.00	23.16

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	24.00	23.24
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	680.5	136100	23.00	22.31
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	680.5	136100	21.50	20.74
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	680.5	136100	19.50	18.70
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	680.5	136100	22.50	21.62
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	680.5	136100	22.00	21.30
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	680.5	136100	20.50	19.70
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	680.5	136100	17.50	16.60
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	680.5	136100	23.00	22.40
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	680.5	136100	23.00	22.35
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	680.5	136100	23.00	22.45
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	680.5	136100	23.00	22.41
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	680.5	136100	24.00	23.32
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	680.5	136100	24.00	23.31
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	680.5	136100	23.00	22.25
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	680.5	136100	24.00	23.25
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	680.5	136100	24.00	23.24

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	
9.17	9.46	9.47	10.50	8.40	8.69	8.94	10.00	8.41	8.69	8.95	10.00

Table 11.2: Summary of Receiver detection mechanism-WLAN antenna

Antenna	Receiver on (Standalone)	Receiver off+ Hotspot on (Standalone)	Receiver on (simultaneous transmission)	Receiver off+ Hotspot on (simultaneous transmission)	Receiver off+ Hotspot off
WLAN Antenna	Power Level A1	Power Level B1	Power Level D1	Power Level E1	Power Level C1

WIFI2.4G Tune up - Power Level A1

802.11b								
Channel\ rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
	dBm	dBm	dBm	dBm				
11	15+/-1	15+/-1	14+/-1	14+/-1				
6	15+/-1	15+/-1	14+/-1	14+/-1				
1	15+/-1	15+/-1	14+/-1	14+/-1				
802.11g								
Channel\ rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
11	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1
6	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1
1	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1
802.11n-20M								
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
11	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1
6	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1
1	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1
802.11n-40M								
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
9	12+/-1	12+/-1	11+/-1	11+/-1	11+/-1	11+/-1	10+/-1	10+/-1
6	12+/-1	12+/-1	11+/-1	11+/-1	11+/-1	11+/-1	10+/-1	10+/-1
3	12+/-1	12+/-1	11+/-1	11+/-1	11+/-1	11+/-1	10+/-1	10+/-1

WIFI2.4G Tune up –Power Level B1/C1

802.11b								
Channel\ rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
	dBm	dBm	dBm	dBm				
11	20+/-1	20+/-1	19+/-1	19+/-1				
6	20+/-1	20+/-1	19+/-1	19+/-1				
1	20+/-1	20+/-1	19+/-1	19+/-1				
802.11g								
Channel\ rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
11	19+/-1	19+/-1	18+/-1	18+/-1	17+/-1	17+/-1	17+/-1	17+/-1
6	19+/-1	19+/-1	18+/-1	18+/-1	17+/-1	17+/-1	17+/-1	17+/-1
1	19+/-1	19+/-1	18+/-1	18+/-1	17+/-1	17+/-1	17+/-1	17+/-1
802.11n-20M								
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
11	19+/-1	19+/-1	18+/-1	18+/-1	17+/-1	17+/-1	17+/-1	17+/-1
6	19+/-1	19+/-1	18+/-1	18+/-1	17+/-1	17+/-1	17+/-1	17+/-1
1	19+/-1	19+/-1	18+/-1	18+/-1	17+/-1	16+/-1	17+/-1	17+/-1
802.11n-40M								
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
9	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1	15+/-1	15+/-1
6	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1	15+/-1	15+/-1
3	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1	15+/-1	15+/-1

WIFI5G Tune up - Power Level A1/B1

Channel\ rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps		
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm		
36-48	14.5+/-1	14.5+/-1	13.5+/-1	13.5+/-1	12.5+/-1	12.5+/-1	12.5+/-1	12.5+/-1		
52-64	14.5+/-1	14.5+/-1	13.5+/-1	13.5+/-1	12.5+/-1	12.5+/-1	12.5+/-1	12.5+/-1		
100-144	14.5+/-1	14.5+/-1	13.5+/-1	13.5+/-1	12.5+/-1	12.5+/-1	12.5+/-1	12.5+/-1		
149-165	14.5+/-1	14.5+/-1	13.5+/-1	13.5+/-1	12.5+/-1	12.5+/-1	12.5+/-1	12.5+/-1		
5G-802.11n 20MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm		
36-48	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1		
52-64	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1		
100-144	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1		
149-165	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1		
5G-802.11n 40MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm		
38-46	12+/-1	12+/-1	11+/-1	11+/-1	11+/-1	11+/-1	10+/-1	10+/-1		
54--62	12+/-1	12+/-1	11+/-1	11+/-1	11+/-1	11+/-1	10+/-1	10+/-1		
102-142	12+/-1	12+/-1	11+/-1	11+/-1	11+/-1	11+/-1	10+/-1	10+/-1		
151-159	12+/-1	12+/-1	11+/-1	11+/-1	11+/-1	11+/-1	10+/-1	10+/-1		
5G-802.11ac 20MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	
36-48	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1	12+/-1	
52-64	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1	12+/-1	
100-144	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1	12+/-1	
149-165	14+/-1	14+/-1	13+/-1	13+/-1	12+/-1	12+/-1	12+/-1	12+/-1	12+/-1	
5G-802.11ac 40MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
38-46	12+/-1	12+/-1	11+/-1	11+/-1	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1
54--62	12+/-1	12+/-1	11+/-1	11+/-1	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1
102-142	12+/-1	12+/-1	11+/-1	11+/-1	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1
151-159	12+/-1	12+/-1	11+/-1	11+/-1	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1
5G-802.11ac 80MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
42	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1	8+/-1	8+/-1
58	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1	8+/-1	8+/-1
106-138	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1	8+/-1	8+/-1
155	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1	8+/-1	8+/-1

WIFI5G Tune up - Power Level C1

5G-802.11a										
Channel\ rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps		
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm		
36-48	18+/-1	18+/-1	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1		
52-64	18.5+/-1	18.5+/-1	17.5+/-1	17.5+/-1	16.5+/-1	16.5+/-1	16.5+/-1	16.5+/-1		
100-144	19+/-1	19+/-1	18+/-1	18+/-1	17+/-1	17+/-1	17+/-1	17+/-1		
149-165	19+/-1	19+/-1	18+/-1	18+/-1	17+/-1	17+/-1	17+/-1	17+/-1		
5G-802.11n 20MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm		
36-48	18+/-1	18+/-1	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1		
52-64	18.5+/-1	18.5+/-1	17.5+/-1	17.5+/-1	16.5+/-1	16.5+/-1	16.5+/-1	16.5+/-1		
100-144	19+/-1	19+/-1	18+/-1	18+/-1	17+/-1	17+/-1	17+/-1	17+/-1		
149-165	19+/-1	19+/-1	18+/-1	18+/-1	17+/-1	17+/-1	17+/-1	17+/-1		
5G-802.11n 40MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm		
38-46	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1	15+/-1	15+/-1		
54--62	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1	15+/-1	15+/-1		
102-142	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1	15+/-1	15+/-1		
151-159	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1	15+/-1	15+/-1		
5G-802.11ac 20MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	
36-48	18+/-1	18+/-1	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1	16+/-1	
52-64	18+/-1	18+/-1	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1	16+/-1	
100-144	19+/-1	19+/-1	18+/-1	18+/-1	17+/-1	17+/-1	17+/-1	17+/-1	17+/-1	
149-165	19+/-1	19+/-1	18+/-1	18+/-1	17+/-1	17+/-1	17+/-1	17+/-1	17+/-1	
5G-802.11ac 40MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
38-46	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1	15+/-1	15+/-1	14+/-1	14+/-1
54--62	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1	15+/-1	15+/-1	14+/-1	14+/-1
102-142	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1	15+/-1	15+/-1	14+/-1	14+/-1
151-159	17+/-1	17+/-1	16+/-1	16+/-1	16+/-1	16+/-1	15+/-1	15+/-1	14+/-1	14+/-1
5G-802.11ac 80MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
42	16+/-1	16+/-1	15+/-1	15+/-1	14+/-1	14+/-1	14+/-1	14+/-1	13+/-1	13+/-1
58	16+/-1	16+/-1	15+/-1	15+/-1	14+/-1	14+/-1	14+/-1	14+/-1	13+/-1	13+/-1
106-138	16+/-1	16+/-1	15+/-1	15+/-1	14+/-1	14+/-1	14+/-1	14+/-1	13+/-1	13+/-1
155	16+/-1	16+/-1	15+/-1	15+/-1	14+/-1	14+/-1	14+/-1	14+/-1	13+/-1	13+/-1

WIFI5G Tune up - Power Level D1

5G-802.11a										
Channel\ rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps		
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm		
36-48	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1		
52-64	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1		
100-144	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1		
149-165	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1		
5G-802.11n 20MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm		
36-48	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1		
52-64	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1		
100-144	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1		
149-165	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1		
5G-802.11n 40MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm		
38-46	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1		
54--62	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1		
102-142	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1		
151-159	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1		
5G-802.11ac 20MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	
36-48	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1	
52-64	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1	
100-144	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1	
149-165	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1	
5G-802.11ac 40MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
38-46	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1
54--62	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1
102-142	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1
151-159	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1
5G-802.11ac 80MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
42	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1
58	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1
106-138	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1
155	7+/-1	7+/-1	6+/-1	6+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1	5+/-1

WIFI5G Tune up - Power Level E1

5G-802.11a										
Channel\ rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps		
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm		
36-48	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1		
52-64	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1		
100-144	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1		
149-165	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1		
5G-802.11n 20MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm		
36-48	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1		
52-64	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1		
100-144	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1		
149-165	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1		
5G-802.11n 40MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm		
38-46	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1		
54--62	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1		
102-142	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1		
151-159	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1		
5G-802.11ac 20MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	
36-48	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1	9+/-1	
52-64	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1	9+/-1	
100-144	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1	9+/-1	
149-165	11+/-1	11+/-1	10+/-1	10+/-1	9+/-1	9+/-1	9+/-1	9+/-1	9+/-1	
5G-802.11ac 40MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
38-46	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1
54--62	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1
102-142	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1
151-159	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1
5G-802.11ac 80MHZ										
Channel\ rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
42	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1
58	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1
106-138	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1
155	9+/-1	9+/-1	8+/-1	8+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1	7+/-1

The average conducted power for Wi-Fi 2.4G is as following-Power Level A1

802.11b(dBm)	
Channel\data rate	1Mbps
11(2462MHz)	15.12
6(2437MHz)	14.33
1(2412MHz)	15.93
802.11g(dBm)	
Channel\data rate	6Mbps
11(2462MHz)	14.59
6(2437MHz)	14.00
1(2412MHz)	14.96
802.11n(dBm)-20MHz	
Channel\data rate	MCS0
11(2462MHz)	13.92
6(2437MHz)	13.30
1(2412MHz)	14.66
802.11n(dBm)-40MHz	
Channel\data rate	MCS0
9(2452MHz)	12.79
6(2437MHz)	12.22
3(2422MHz)	11.12

The average conducted power for Wi-Fi 2.4G is as following-Power Level B1/C1

802.11b(dBm)	
Channel\data rate	1Mbps
11(2462MHz)	20.46
6(2437MHz)	19.50
1(2412MHz)	20.85
802.11g(dBm)	
Channel\data rate	6Mbps
11(2462MHz)	18.81
6(2437MHz)	18.24
1(2412MHz)	19.30
802.11n(dBm)-20MHz	
Channel\data rate	MCS0
11(2462MHz)	19.44
6(2437MHz)	18.88
1(2412MHz)	19.93
802.11n(dBm)-40MHz	
Channel\data rate	MCS0
9(2452MHz)	17.31
6(2437MHz)	17.05
3(2422MHz)	17.33

The average conducted power for Wi-Fi 5G is as following-Power Level A1/B1

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	14.68
40(5200 MHz)	14.66
44(5220 MHz)	14.69
48(5240 MHz)	14.56
52(5260 MHz)	14.57
56(5280 MHz)	14.58
60(5300 MHz)	14.64
64(5320 MHz)	14.54
100(5500 MHz)	14.81
104(5520 MHz)	14.93
108(5540 MHz)	14.83
112(5560 MHz)	14.75
116(5580 MHz)	14.86
120(5600 MHz)	14.57
124(5620 MHz)	14.66
128(5640 MHz)	14.91
132(5660 MHz)	14.87
136(5680 MHz)	14.91
140(5700 MHz)	14.98
144(5720 MHz)	14.99
149(5745 MHz)	14.93
153(5765 MHz)	15.11
157(5785 MHz)	14.89
161(5805 MHz)	14.93
165(5825 MHz)	14.91

The average conducted power for Wi-Fi 5G is as following-Power Level C1

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	18.46
40(5200 MHz)	18.45
44(5220 MHz)	18.39
48(5240 MHz)	18.35
52(5260 MHz)	18.39
56(5280 MHz)	18.46
60(5300 MHz)	18.45
64(5320 MHz)	18.47
100(5500 MHz)	19.13
104(5520 MHz)	19.12
108(5540 MHz)	19.04
112(5560 MHz)	19.06
116(5580 MHz)	19.01
120(5600 MHz)	18.93
124(5620 MHz)	18.98
128(5640 MHz)	19.18
132(5660 MHz)	19.21
136(5680 MHz)	19.28
140(5700 MHz)	19.25
144(5720 MHz)	19.26
149(5745 MHz)	19.19
153(5765 MHz)	19.29
157(5785 MHz)	19.24
161(5805 MHz)	19.18
165(5825 MHz)	19.16

The average conducted power for Wi-Fi 5G is as following-Power Level D1

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	8.73
40(5200 MHz)	8.90
44(5220 MHz)	8.41
48(5240 MHz)	8.52
52(5260 MHz)	8.58
56(5280 MHz)	9.19
60(5300 MHz)	8.33
64(5320 MHz)	8.46
100(5500 MHz)	9.07
104(5520 MHz)	9.11
108(5540 MHz)	9.13
112(5560 MHz)	8.99
116(5580 MHz)	8.99
120(5600 MHz)	9.11
124(5620 MHz)	8.32
128(5640 MHz)	8.99
132(5660 MHz)	8.88
136(5680 MHz)	9.54
140(5700 MHz)	9.58
144(5720 MHz)	9.64
149(5745 MHz)	8.76
153(5765 MHz)	8.83
157(5785 MHz)	8.46
161(5805 MHz)	7.73
165(5825 MHz)	7.74

The average conducted power for Wi-Fi 5G is as following-Power Level E1

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	11.77
40(5200 MHz)	11.69
44(5220 MHz)	11.83
48(5240 MHz)	11.44
52(5260 MHz)	11.39
56(5280 MHz)	11.38
60(5300 MHz)	11.42
64(5320 MHz)	11.28
100(5500 MHz)	11.86
104(5520 MHz)	11.74
108(5540 MHz)	11.65
112(5560 MHz)	11.71
116(5580 MHz)	11.59
120(5600 MHz)	11.60
124(5620 MHz)	11.73
128(5640 MHz)	11.28
132(5660 MHz)	11.41
136(5680 MHz)	11.43
140(5700 MHz)	11.96
144(5720 MHz)	11.91
149(5745 MHz)	11.31
153(5765 MHz)	11.39
157(5785 MHz)	11.26
161(5805 MHz)	10.84
165(5825 MHz)	10.66

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.24T04Z102681-008
The photos of SAR test

12.2 Transmit Antenna Separation Distances

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.0	<25mm	<25mm	<25mm	<25mm	<25mm	>25mm
Ant.1	<25mm	<25mm	<25mm	<25mm	>25mm	>25mm
Ant.3	<25mm	<25mm	<25mm	<25mm	<25mm	>25mm

13 Evaluation of Simultaneous

Test Postition / SAR 1/10g(W/kg)		ANT1 GSM850	ANT1 GSM1900	ANT0 WCDMA850	ANT1 WCDMA1700	ANT1 WCDMA1900	ANT0 LTE B12	ANT1 LTE B25	ANT0 LTE B26	ANT1 LTE B41_PC2	ANT1 LTE B41_PC3	ANT1 LTE B66	ANT0 LTE B71	MAX. SAR 1g/10g
Head	Left Cheek	0.05	0.13	0.67	0.20	0.17	0.57	0.25	0.91	0.28	0.22	0.19	0.35	0.91
	Left Tilt	0.00	0.05	0.70	0.09	0.09	0.66	0.13	1.09	0.21	0.17	0.11	0.39	1.09
	Right Cheek	0.00	0.05	0.69	0.14	0.10	0.68	0.15	1.00	0.38	0.32	0.13	0.39	1.00
	Right Tilt	0.00	0.04	1.06	0.11	0.10	0.78	0.17	1.14	0.30	0.26	0.09	0.47	1.14
Hotspot	Front 10mm	0.05	0.29	0.16	0.22	0.24	0.21	0.28	0.36	0.25	0.19	0.28	0.12	0.36
	Rear 10nn	0.08	0.46	0.24	0.27	0.43	0.29	0.52	0.52	0.35	0.27	0.53	0.17	0.53
	Left 10mm	0.00	0.05	0.10	0.03	0.06	0.16	0.05	0.20	0.08	0.07	0.03	0.23	0.23
	Right 10mm	0.00	0.19	0.04	0.04	0.12	0.06	0.09	0.08	0.14	0.10	0.15	0.11	0.19
	Bottom 10mm	0.08	0.68		0.50	0.24		0.51		0.40	0.33	0.62		0.68
	Top 10mm			0.33			0.34		0.60				0.15	0.60
Body-worn	Front 15mm	0.05	0.14	0.16	0.09	0.16	0.21	0.17	0.36	0.23	0.20	0.20	0.12	0.36
	Rear 15mm	0.08	0.24	0.24	0.25	0.30	0.29	0.32	0.52	0.31	0.31	0.36	0.17	0.52

Test Postition / SAR 1/10g(W/kg)		1 WWAN	2 WIFI2.4G	3 WIFI5G	4 BT
Head	Left Cheek	0.91	0.37	0.18	0.06
	Left Tilt	1.09	0.24	0.24	0.04
	Right Cheek	1.00	0.13	0.10	0.02
	Right Tilt	1.14	0.17	0.15	0.03
Hotspot	Front 10mm	0.36	0.19	0.03	0.16
	Rear 10nn	0.53	0.19	0.08	0.16
	Left 10mm	0.23	0.06	0.00	0.05
	Right 10mm	0.19	0.15	0.04	0.13
	Bottom 10mm	0.68			
	Top 10mm	0.60	0.26	0.09	0.22
Body-worn	Front 15mm	0.36	0.10	0.33	0.16
	Rear 15mm	0.52	0.10	0.88	0.16

Test Postition / SAR 1/10g(W/kg)		simultaneous transmission 1+2	simultaneous transmission 1+3+4
Head	Left Cheek	1.28	1.15
	Left Tilt	1.33	1.37
	Right Cheek	1.13	1.12
	Right Tilt	1.31	1.32
Hotspot	Front 10mm	0.55	0.55
	Rear 10nn	0.72	0.77
	Left 10mm	0.29	0.28
	Right 10mm	0.34	0.36
	Bottom 10mm	0.68	0.68
	Top 10mm	0.86	0.91
Body-worn	Front 15mm	0.46	0.85
	Rear 15mm	0.62	1.56

Test Postition / SAR 1/10g(W/kg)		ANT1 n25	ANT1 n41	ANT1 n66	ANT0 n71	MAX. SAR 1g/10g
Head	Left Cheek	0.05	0.33	0.06	0.26	0.33
	Left Tilt	0.04	0.37	0.04	0.29	0.37
	Right Cheek	0.09	0.67	0.09	0.28	0.67
	Right Tilt	0.07	0.27	0.05	0.37	0.37
Hotspot	Front 10mm	0.20	0.24	0.25	0.13	0.25
	Rear 10nn	0.31	0.41	0.47	0.19	0.47
	Left 10mm	0.05	0.05	0.06	0.15	0.15
	Right 10mm	0.08	0.16	0.04	0.03	0.16
	Bottom 10mm	0.67	0.48	0.66		0.67
	Top 10mm				0.16	0.16
Body-worn	Front 15mm	0.16	0.20	0.20	0.13	0.20
	Rear 15mm	0.35	0.32	0.35	0.19	0.35

Test Postition / SAR 1/10g(W/kg)		1 WWAN	2 WIFI2.4G	3 WIFI5G	4 BT
Head	Left Cheek	0.33	0.37	0.18	0.06
	Left Tilt	0.37	0.24	0.24	0.04
	Right Cheek	0.67	0.13	0.10	0.02
	Right Tilt	0.37	0.17	0.15	0.03
Hotspot	Front 10mm	0.25	0.19	0.03	0.16
	Rear 10nn	0.47	0.19	0.08	0.16
	Left 10mm	0.15	0.06	0.00	0.05
	Right 10mm	0.16	0.15	0.04	0.13
	Bottom 10mm	0.67			
	Top 10mm	0.16	0.26	0.09	0.22
Body-worn	Front 15mm	0.20	0.10	0.33	0.16
	Rear 15mm	0.35	0.10	0.88	0.16

Test Postition / SAR 1/10g(W/kg)		simultaneous transmission 1+2	simultaneous transmission 1+3+4
Head	Left Cheek	0.70	0.57
	Left Tilt	0.61	0.65
	Right Cheek	0.80	0.79
	Right Tilt	0.54	0.55
Hotspot	Front 10mm	0.44	0.44
	Rear 10nn	0.66	0.71
	Left 10mm	0.21	0.20
	Right 10mm	0.31	0.33
	Bottom 10mm	0.67	0.67
	Top 10mm	0.42	0.47
Body-worn	Front 15mm	0.30	0.69
	Rear 15mm	0.45	1.39

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:

≤ 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 ≤ 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 ≤ 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 ≤ 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

Note:

B1: The Battery of CAC4900007C7 by VEKEN

B2: The Battery of CAC4900033C9 by FENGHUA

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
1	Head	GSM850	251	848.8	GPRS(4TX)	Cheek Left	0mm	\	\	26.41	27.50	0.042	**0.05**	0.031	**0.04**	0.18
1	Head	GSM850	190	836.6	GPRS(4TX)	Cheek Left	0mm	FIG A.1	\	26.57	27.50	0.043	0.05	0.032	**0.04**	0.05
1	Head	GSM850	128	824.2	GPRS(4TX)	Cheek Left	0mm	\	\	26.60	27.50	0.035	**0.04**	0.027	**0.03**	-0.17
1	Head	GSM850	190	836.6	GPRS(4TX)	Tilt Left	0mm	\	\	26.57	27.50	<0.01	**<0.01**	<0.01	**<0.01**	
1	Head	GSM850	190	836.6	GPRS(4TX)	Cheek Right	0mm	\	\	26.57	27.50	<0.01	**<0.01**	<0.01	**<0.01**	
1	Head	GSM850	190	836.6	GPRS(4TX)	Tilt Right	0mm	\	\	26.57	27.50	<0.01	**<0.01**	<0.01	**<0.01**	
1	Body	GSM850	190	836.6	GPRS(4TX)	Front	10mm	\	\	26.57	27.50	0.037	**0.05**	0.020	**0.02**	0.15
1	Body	GSM850	190	836.6	GPRS(4TX)	Rear	10mm	\	\	26.57	27.50	0.062	**0.08**	0.034	**0.04**	0.10
1	Body	GSM850	190	836.6	GPRS(4TX)	Left	10mm	\	\	26.57	27.50	<0.01	**<0.01**	<0.01	**<0.01**	
1	Body	GSM850	190	836.6	GPRS(4TX)	Rightt	10mm	\	\	26.57	27.50	<0.01	**<0.01**	<0.01	**<0.01**	
1	Body	GSM850	251	848.8	GPRS(4TX)	Bottom	10mm	\	\	26.41	27.50	0.050	**0.06**	0.024	**0.03**	0.01
1	Body	GSM850	190	836.6	GPRS(4TX)	Bottom	10mm	FIG A.2	\	26.57	27.50	0.067	0.08	0.037	**0.05**	-0.17
1	Body	GSM850	128	824.2	GPRS(4TX)	Bottom	10mm	\	\	26.60	27.50	0.038	**0.05**	0.018	**0.02**	0.08
1	Body	GSM850	190	836.6	EGPRS(4TX)	Bottom	10mm	\	\	26.53	27.50	0.044	**0.06**	0.018	**0.02**	0.02
1	Head	GSM1900	810	1909.8	GPRS(3TX)	Cheek Left	0mm	\	\	26.57	27.50	0.095	**0.12**	0.059	**0.07**	-0.05
1	Head	GSM1900	661	1880	GPRS(3TX)	Cheek Left	0mm	FIG A.3	\	26.78	27.50	0.110	0.13	0.068	**0.08**	0.07
1	Head	GSM1900	512	1850.2	GPRS(3TX)	Cheek Left	0mm	\	\	26.98	27.50	0.097	**0.11**	0.061	**0.07**	0.11
1	Head	GSM1900	661	1880	GPRS(3TX)	Tilt Left	0mm	\	\	26.78	27.50	0.045	**0.05**	0.027	**0.03**	-0.02
1	Head	GSM1900	661	1880	GPRS(3TX)	Cheek Right	0mm	\	\	26.78	27.50	0.041	**0.05**	0.025	**0.03**	0.15
1	Head	GSM1900	661	1880	GPRS(3TX)	Tilt Right	0mm	\	\	26.78	27.50	0.030	**0.04**	0.020	**0.02**	0.15
1	Body	GSM1900	661	1880	GPRS(4TX)	Front	10mm	\	\	22.45	23.00	0.257	**0.29**	0.155	**0.18**	-0.13
1	Body	GSM1900	661	1880	GPRS(4TX)	Rear	10mm	\	\	22.45	23.00	0.407	**0.46**	0.254	**0.29**	0.19
1	Body	GSM1900	661	1880	GPRS(4TX)	Left	10mm	\	\	22.45	23.00	0.046	**0.05**	0.024	**0.03**	0.02
1	Body	GSM1900	661	1880	GPRS(4TX)	Right	10mm	\	\	22.45	23.00	0.169	**0.19**	0.096	**0.11**	-0.13
1	Body	GSM1900	810	1909.8	GPRS(4TX)	Bottom	10mm	\	\	22.29	23.00	0.576	**0.68**	0.326	**0.38**	-0.12
1	Body	GSM1900	661	1880	GPRS(4TX)	Bottom	10mm	\	\	22.45	23.00	0.539	**0.61**	0.288	**0.33**	0.15
1	Body	GSM1900	512	1850.2	GPRS(4TX)	Bottom	10mm	FIG A.4	\	22.68	23.00	0.633	0.68	0.370	**0.40**	0.14
1	Body	GSM1900	512	1850.2	EGPRS(4TX)	Bottom	10mm	\	\	22.67	23.00	0.561	**0.61**	0.307	**0.33**	0.16
1	Body	GSM1900	661	1880	GPRS(4TX)	Front	15mm	\	\	23.66	24.00	0.125	**0.14**	0.072	**0.08**	0.08
1	Body	GSM1900	810	1909.8	GPRS(4TX)	Rear	15mm	\	\	23.45	24.00	0.209	**0.24**	0.129	**0.15**	-0.04
1	Body	GSM1900	661	1880	GPRS(4TX)	Rear	15mm	FIG A.5	\	23.66	24.00	0.222	0.24	0.134	**0.14**	0.12
1	Body	GSM1900	512	1850.2	GPRS(4TX)	Rear	15mm	\	\	23.28	24.00	0.204	**0.24**	0.122	**0.14**	-0.18
1	Body	GSM1900	661	1880	EGPRS(4TX)	Rear	15mm	\	\	23.65	24.00	0.201	**0.22**	0.117	**0.13**	0.14
0	Head	WCDMA 850	4183	836.6	RMC	Cheek Left	0mm	\	\	22.87	24.00	0.519	**0.67**	0.318	**0.41**	0.14
0	Head	WCDMA 850	4183	836.6	RMC	Tilt Left	0mm	\	\	22.87	24.00	0.542	**0.70**	0.289	**0.37**	0.04
0	Head	WCDMA 850	4183	836.6	RMC	Cheek Right	0mm	\	\	22.87	24.00	0.534	**0.69**	0.328	**0.43**	-0.01
0	Head	WCDMA 850	4183	836.6	RMC	Tilt Right	0mm	\	\	22.81	24.00	0.780	**1.03**	0.404	**0.53**	0.15
0	Head	WCDMA 850	4183	836.6	RMC	Tilt Right	0mm	FIG A.6	\	22.87	24.00	0.818	1.06	0.418	**0.54**	0.03
0	Head	WCDMA 850	4183	836.6	RMC	Tilt Right	0mm	\	\	22.78	24.00	0.788	**1.04**	0.406	**0.54**	-0.16
0	Body	WCDMA 850	4183	836.6	RMC	Front	10mm	\	\	22.87	24.00	0.126	**0.16**	0.080	**0.10**	-0.04
0	Body	WCDMA 850	4183	846.6	RMC	Rear	10mm	\	\	22.87	24.00	0.183	**0.24**	0.114	**0.15**	-0.18
0	Body	WCDMA 850	4183	836.6	RMC	Left	10mm	\	\	22.87	24.00	0.074	**0.10**	0.052	**0.07**	0.13
0	Body	WCDMA 850	4183	836.6	RMC	Right	10mm	\	\	22.87	24.00	0.028	**0.04**	0.020	**0.03**	-0.02
0	Body	WCDMA 850	4233	846.6	RMC	Top	10mm	\	\	22.81	24.00	0.182	**0.24**	0.084	**0.11**	0.16
0	Body	WCDMA 850	4183	836.6	RMC	Top	10mm	\	\	22.87	24.00	0.237	**0.31**	0.133	**0.17**	0.16
0	Body	WCDMA 850	4132	826.4	RMC	Top	10mm	FIG A.7	\	22.78	24.00	0.250	0.33	0.135	**0.18**	0.03
1	Head	WCDMA 1700	1513	1752.6	RMC	Cheek Left	0mm	\	\	22.91	24.50	0.132	**0.19**	0.080	**0.12**	-0.01
1	Head	WCDMA 1700	1412	1732.4	RMC	Cheek Left	0mm	FIG A.8	\	22.83	24.50	0.136	0.20	0.084	**0.12**	0.09
1	Head	WCDMA 1700	1312	1712.4	RMC	Cheek Left	0mm	\	\	22.89	24.50	0.123	**0.18**	0.075	**0.11**	0.07
1	Head	WCDMA 1700	1412	1732.4	RMC	Tilt Left	0mm	\	\	22.83	24.50	0.060	**0.09**	0.034	**0.05**	-0.10
1	Head	WCDMA 1700	1412	1732.4	RMC	Cheek Right	0mm	\	\	22.83	24.50	0.097	**0.14**	0.061	**0.09**	0.07
1	Head	WCDMA 1700	1412	1732.4	RMC	Tilt Right	0mm	\	\	22.83	24.50	0.074	**0.11**	0.045	**0.07**	-0.15
1	Body	WCDMA 1700	1412	1732.4	RMC	Front	10mm	\	\	19.88	20.50	0.187	**0.22**	0.112	**0.13**	-0.07
1	Body	WCDMA 1700	1412	1732.4	RMC	Rear	10mm	\	\	19.88	20.50	0.233	**0.27**	0.131	**0.15**	-0.01
1	Body	WCDMA 1700	1412	1732.4	RMC	Left	10mm	\	\	19.88	20.50	0.026	**0.03**	0.016	**0.02**	0.08
1	Body	WCDMA 1700	1412	1732.4	RMC	Right	10mm	\	\	19.88	20.50	0.038	**0.04**	0.022	**0.03**	-0.11
1	Body	WCDMA 1700	1513	1752.6	RMC	Bottom	10mm	FIG A.9	\	19.91	20.50	0.435	0.50	0.244	**0.28**	0.16
1	Body	WCDMA 1700	1412	1732.4	RMC	Bottom	10mm	\	\	19.88	20.50	0.353	**0.41**	0.193	**0.22**	0.04
1	Body	WCDMA 1700	1312	1712.4	RMC	Bottom	10mm	\	\	19.83	20.50	0.428	**0.50**	0.239	**0.28**	0.18
1	Body	WCDMA 1700	1412	1732.4	RMC	Front	15mm	\	\	20.89	21.50	0.075	**0.09**	0.048	**0.06**	0.17
1	Body	WCDMA 1700	1513	1752.6	RMC	Rear	15mm	\	\	20.93	21.50	0.187	**0.21**	0.114	**0.13**	-0.11
1	Body	WCDMA 1700	1412	1732.4	RMC	Rear	15mm	\	\	20.89	21.50	0.126	**0.15**	0.077	**0.09**	0.04
1	Body	WCDMA 1700	1312	1712.4	RMC	Rear	15mm	FIG A.10	\	20.79	21.50	0.211	0.25	0.128	**0.15**	0.09
1	Head	WCDMA 1900	9538	1907.6	RMC	Cheek Left	0mm	\	\	23.10	24.50	0.085	**0.12**	0.052	**0.07**	0.03
1	Head	WCDMA 1900	9400	1880	RMC	Cheek Left	0mm	FIG A.11	\	23.18	24.50	0.125	0.17	0.075	**0.10**	0.11
1	Head	WCDMA 1900	9262	1852.4	RMC	Cheek Left	0mm	\	\	23.11	24.50	0.102	**0.14**	0.063	**0.09**	0.12
1	Head	WCDMA 1900	9400	1880	RMC	Tilt Left	0mm	\	\	23.18	24.50	0.065	**0.09**	0.038	**0.05**	-0.02
1	Head	WCDMA 1900	9400	1880	RMC	Cheek Right	0mm	\	\	23.18	24.50	0.071	**0.10**	0.046	**0.06**	-0.18
1	Head	WCDMA 1900	9400	1880	RMC	Tilt Right	0mm	\	\	23.18	24.50	0.077	**0.10**	0.045	**0.06**	-0.16
1	Body	WCDMA 1900	9400	1880	RMC	Front	10mm	\	\	20.04	21.00	0.190	**0.24**	0.106	**0.13**	-0.01
1	Body	WCDMA 1900	9538	1907.6	RMC	Rear	10mm	\	\	20.03	21.00	0.329	**0.41**	0.187	**0.23**	0.17
1	Body	WCDMA 1900	9400	1880	RMC	Rear	10mm	\	\	20.04	21.00	0.261	**0.33**	0.145	**0.18**	0.18
1	Body	WCDMA 1900	9262	1852.4	RMC	Rear	10mm	FIG A.12	\	20.05	21.00	0.346	0.43	0.197	**0.25**	0.13
1	Body	WCDMA 1900	9400	1880	RMC	Left	10mm	\	\	20.04	21.00	0.048	**0.06**	0.030	**0.04**	-0.12
1	Body	WCDMA 1900	9400	1880	RMC	Right	10mm	\	\	20.04	21.00	0.098	**0.12**	0.049	**0.06**	0.17
1	Body	WCDMA 1900	9400	1880	RMC	Bottom	10mm	\	\	20.04	21.00	0.191	**0.24**	0.099	**0.12**	0.11
1	Body	WCDMA 1900	9400	1880	RMC	Front	15mm	\	\	20.99	21.50	0.141	**0.16**	0.084	**0.09**	0.12
1	Body	WCDMA 1900	9538	1907.6	RMC	Rear	15mm	\	\	20.99	21.50	0.247	**0.28**	0.147	**0.17**	0.09
1	Body	WCDMA 1900	9400	1880	RMC	Rear	15mm	\	\	20.99	21.50	0.181	**0.20**	0.105	**0.12**	-0.03
1	Body	WCDMA 1900	9262	1852.4	RMC	Rear	15mm	FIG A.13	\	20.96	21.50	0.263	0.30	0.158	**0.18**	0.03

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
0	Head	LTE Band12	23060	704	1RB-Low	Cheek Left	0mm	\	\	24.36	25.00	0.488	**0.57**	0.304	**0.35**	-0.04
0	Head	LTE Band12	23060	704	1RB-Low	Tilt Left	0mm	\	\	24.36	25.00	0.568	**0.66**	0.326	**0.38**	-0.01
0	Head	LTE Band12	23060	704	1RB-Low	Cheek Right	0mm	\	\	24.36	25.00	0.587	**0.68**	0.360	**0.42**	0.16
0	Head	LTE Band12	23060	704	1RB-Low	Tilt Right	0mm	FIG A.14	\	24.36	25.00	0.675	**0.78**	0.370	**0.43**	0.07
0	Head	LTE Band12	23060	704	25RB-Middle	Cheek Left	0mm	\	\	23.27	24.00	0.381	**0.45**	0.237	**0.28**	-0.13
0	Head	LTE Band12	23060	704	25RB-Middle	Tilt Left	0mm	\	\	23.27	24.00	0.432	**0.51**	0.250	**0.30**	0.00
0	Head	LTE Band12	23060	704	25RB-Middle	Cheek Right	0mm	\	\	23.27	24.00	0.453	**0.54**	0.276	**0.33**	0.01
0	Head	LTE Band12	23060	704	25RB-Middle	Tilt Right	0mm	\	\	23.27	24.00	0.514	**0.61**	0.285	**0.34**	-0.04
0	Body	LTE Band12	23060	704	1RB-Low	Front	10mm	\	\	24.36	25.00	0.177	**0.21**	0.132	**0.15**	0.12
0	Body	LTE Band12	23060	704	1RB-Low	Rear	10mm	\	\	24.36	25.00	0.253	**0.29**	0.156	**0.18**	0.13
0	Body	LTE Band12	23060	704	1RB-Low	Left	10mm	\	\	24.36	25.00	0.134	**0.16**	0.081	**0.09**	0.17
0	Body	LTE Band12	23060	704	1RB-Low	Right	10mm	\	\	24.36	25.00	0.053	**0.06**	0.036	**0.04**	-0.06
0	Body	LTE Band12	23060	704	1RB-Low	Top	10mm	FIG A.15	\	24.36	25.00	0.295	**0.34**	0.156	**0.18**	0.14
0	Body	LTE Band12	23060	704	25RB-Middle	Front	10mm	\	\	23.27	24.00	0.136	**0.16**	0.084	**0.10**	-0.11
0	Body	LTE Band12	23060	704	25RB-Middle	Rear	10mm	\	\	23.27	24.00	0.203	**0.24**	0.121	**0.14**	-0.12
0	Body	LTE Band12	23060	704	25RB-Middle	Left	10mm	\	\	23.27	24.00	0.107	**0.13**	0.074	**0.09**	0.01
0	Body	LTE Band12	23060	704	25RB-Middle	Right	10mm	\	\	23.27	24.00	0.048	**0.06**	0.032	**0.04**	-0.01
0	Body	LTE Band12	23060	704	25RB-Middle	Top	10mm	\	\	23.27	24.00	0.224	**0.27**	0.119	**0.14**	0.18
1	Head	LTE Band25	26590	1905	1RB-Low	Cheek Left	0mm	FIG A.16	\	23.82	25.00	0.192	**0.25**	0.118	**0.15**	0.14
1	Head	LTE Band25	26590	1905	1RB-Low	Tilt Left	0mm	\	\	23.82	25.00	0.097	**0.13**	0.060	**0.08**	0.10
1	Head	LTE Band25	26590	1905	1RB-Low	Cheek Right	0mm	\	\	23.82	25.00	0.115	**0.15**	0.076	**0.10**	-0.12
1	Head	LTE Band25	26590	1905	1RB-Low	Tilt Right	0mm	\	\	23.82	25.00	0.128	**0.17**	0.075	**0.10**	0.13
1	Head	LTE Band25	26590	1905	50RB-High	Cheek Left	0mm	\	\	22.52	24.00	0.136	**0.19**	0.082	**0.12**	-0.01
1	Head	LTE Band25	26590	1905	50RB-High	Tilt Left	0mm	\	\	22.52	24.00	0.069	**0.10**	0.042	**0.06**	0.06
1	Head	LTE Band25	26590	1905	50RB-High	Cheek Right	0mm	\	\	22.52	24.00	0.082	**0.12**	0.055	**0.08**	0.08
1	Head	LTE Band25	26590	1905	50RB-High	Tilt Right	0mm	\	\	22.52	24.00	0.089	**0.13**	0.053	**0.07**	0.13
1	Body	LTE Band25	26140	1860	1RB-High	Front	10mm	\	\	20.48	21.00	0.249	**0.28**	0.147	**0.17**	-0.07
1	Body	LTE Band25	26140	1860	1RB-High	Rear	10mm	FIG A.17	\	20.48	21.00	0.464	**0.52**	0.275	**0.31**	0.15
1	Body	LTE Band25	26140	1860	1RB-High	Left	10mm	\	\	20.48	21.00	0.043	**0.05**	0.023	**0.03**	0.08
1	Body	LTE Band25	26140	1860	1RB-High	Right	10mm	\	\	20.48	21.00	0.079	**0.09**	0.040	**0.05**	0.10
1	Body	LTE Band25	26140	1860	1RB-High	Bottom	10mm	\	\	20.48	21.00	0.455	**0.51**	0.258	**0.29**	-0.12
1	Body	LTE Band25	26365	1882.5	50RB-Low	Front	10mm	\	\	20.48	21.00	0.203	**0.23**	0.123	**0.14**	0.19
1	Body	LTE Band25	26365	1882.5	50RB-Low	Rear	10mm	\	\	20.48	21.00	0.365	**0.41**	0.211	**0.24**	0.09
1	Body	LTE Band25	26365	1882.5	50RB-Low	Left	10mm	\	\	20.48	21.00	0.047	**0.05**	0.024	**0.03**	0.08
1	Body	LTE Band25	26365	1882.5	50RB-Low	Right	10mm	\	\	20.48	21.00	0.080	**0.09**	0.042	**0.05**	-0.05
1	Body	LTE Band25	26365	1882.5	50RB-Low	Bottom	10mm	\	\	20.48	21.00	0.350	**0.39**	0.197	**0.22**	0.12
1	Body	LTE Band25	26140	1860	1RB-Low	Front	15mm	\	\	21.43	22.00	0.149	**0.17**	0.093	**0.11**	0.19
1	Body	LTE Band25	26140	1860	1RB-Low	Rear	15mm	FIG A.18	\	21.43	22.00	0.277	**0.32**	0.172	**0.20**	0.13
1	Body	LTE Band25	26140	1860	50RB-Low	Front	15mm	\	\	21.37	22.00	0.124	**0.14**	0.077	**0.09**	0.02
1	Body	LTE Band25	26140	1860	50RB-Low	Rear	15mm	\	\	21.37	22.00	0.230	**0.27**	0.144	**0.17**	0.11
0	Head	LTE Band26	26965	841.5	1RB-Middle	Cheek Left	0mm	\	\	24.05	24.50	0.784	**0.87**	0.436	**0.48**	0.18
0	Head	LTE Band26	26865	831.5	1RB-Middle	Cheek Left	0mm	\	\	24.05	24.50	0.821	**0.91**	0.461	**0.51**	0.06
0	Head	LTE Band26	26775	822.5	1RB-Middle	Cheek Left	0mm	\	\	24.00	24.50	0.768	**0.86**	0.434	**0.49**	-0.12
0	Head	LTE Band26	26965	841.5	1RB-Middle	Tilt Left	0mm	\	\	24.05	24.50	0.937	**1.04**	0.481	**0.53**	-0.02
0	Head	LTE Band26	26865	831.5	1RB-Middle	Tilt Left	0mm	\	\	24.05	24.50	0.980	**1.09**	0.509	**0.56**	-0.03
0	Head	LTE Band26	26775	822.5	1RB-Middle	Tilt Left	0mm	\	\	24.00	24.50	0.866	**0.97**	0.461	**0.52**	-0.15
0	Head	LTE Band26	26965	841.5	1RB-Middle	Cheek Right	0mm	\	\	24.05	24.50	0.803	**0.89**	0.447	**0.50**	-0.08
0	Head	LTE Band26	26865	831.5	1RB-Middle	Cheek Right	0mm	\	\	24.05	24.50	0.856	**0.95**	0.480	**0.53**	-0.09
0	Head	LTE Band26	26775	822.5	1RB-Middle	Cheek Right	0mm	\	\	24.00	24.50	0.887	**1.00**	0.497	**0.56**	0.17
0	Head	LTE Band26	26965	841.5	1RB-Middle	Tilt Right	0mm	\	\	24.05	24.50	0.990	**1.10**	0.508	**0.56**	-0.06
0	Head	LTE Band26	26865	831.5	1RB-Middle	Tilt Right	0mm	FIG A.19	\	24.05	24.50	1.030	**1.14**	0.527	**0.58**	-0.18
0	Head	LTE Band26	26775	822.5	1RB-Middle	Tilt Right	0mm	\	\	24.00	24.50	1.010	**1.13**	0.518	**0.58**	0.05
0	Head	LTE Band26	26775	822.5	36RB-High	Cheek Left	0mm	\	\	23.18	23.50	0.585	**0.63**	0.332	**0.36**	0.15
0	Head	LTE Band26	26775	822.5	36RB-High	Tilt Left	0mm	\	\	23.18	23.50	0.658	**0.71**	0.370	**0.40**	-0.08
0	Head	LTE Band26	26775	822.5	36RB-High	Cheek Right	0mm	\	\	23.18	23.50	0.652	**0.70**	0.368	**0.40**	-0.11
0	Head	LTE Band26	26965	841.5	36RB-High	Tilt Right	0mm	\	\	23.10	23.50	0.757	**0.83**	0.396	**0.43**	0.13
0	Head	LTE Band26	26865	831.5	36RB-High	Tilt Right	0mm	\	\	23.12	23.50	0.773	**0.84**	0.396	**0.43**	0.05
0	Head	LTE Band26	26775	822.5	36RB-High	Tilt Right	0mm	\	\	23.18	23.50	0.784	**0.84**	0.413	**0.44**	0.05
0	Head	LTE Band26	26865	831.5	100RB	Cheek Left	0mm	\	\	23.11	23.50	0.613	**0.67**	0.345	**0.38**	-0.13
0	Head	LTE Band26	26865	831.5	100RB	Tilt Left	0mm	\	\	23.11	23.50	0.733	**0.80**	0.388	**0.42**	0.15
0	Head	LTE Band26	26865	831.5	100RB	Cheek Right	0mm	\	\	23.11	23.50	0.671	**0.73**	0.381	**0.42**	0.16
0	Head	LTE Band26	26865	831.5	100RB	Tilt Right	0mm	\	\	23.11	23.50	0.835	**0.91**	0.428	**0.47**	0.10
0	Head	LTE Band26	26865	831.5	1RB-Middle	Tilt Right	0mm	\	B2	24.05	24.50	0.996	**1.10**	0.517	**0.57**	0.03
0	Body	LTE Band26	26965	841.5	1RB-Middle	Front	10mm	\	\	24.05	24.50	0.325	**0.36**	0.187	**0.21**	0.12
0	Body	LTE Band26	26965	841.5	1RB-Middle	Rear	10mm	\	\	24.05	24.50	0.468	**0.52**	0.271	**0.30**	-0.18
0	Body	LTE Band26	26965	841.5	1RB-Middle	Left	10mm	\	\	24.05	24.50	0.181	**0.20**	0.122	**0.14**	0.14
0	Body	LTE Band26	26965	841.5	1RB-Middle	Right	10mm	\	\	24.05	24.50	0.074	**0.08**	0.049	**0.05**	0.07
0	Body	LTE Band26	26965	841.5	1RB-Middle	Top	10mm	FIG A.20	\	24.05	24.50	0.543	**0.60**	0.291	**0.32**	0.11
0	Body	LTE Band26	26775	822.5	36RB-High	Front	10mm	\	\	23.18	23.50	0.252	**0.27**	0.149	**0.16**	-0.02
0	Body	LTE Band26	26775	822.5	36RB-High	Rear	10mm	\	\	23.18	23.50	0.356	**0.38**	0.209	**0.22**	0.10
0	Body	LTE Band26	26775	822.5	36RB-High	Left	10mm	\	\	23.18	23.50	0.137	**0.15**	0.092	**0.10**	-0.19
0	Body	LTE Band26	26775	822.5	36RB-High	Right	10mm	\	\	23.18	23.50	0.053	**0.06**	0.036	**0.04**	-0.03
0	Body	LTE Band26	26775	822.5	36RB-High	Top	10mm	\	\	23.18	23.50	0.491	**0.53**	0.245	**0.26**	-0.18

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 Band41-PC2	40620	2593	1RB-Middle	Cheek Left	0mm	\	\	26.57	27.00	0.251	**0.28**	0.121	**0.13**	-0.15
1	Head	LTE Band41-PC2	40620	2593	1RB-Middle	Tilt Left	0mm	\	\	26.57	27.00	0.191	**0.21**	0.095	**0.10**	0.07
1	Head	LTE Band41-PC2	40620	2593	1RB-Middle	Cheek Right	0mm	FIG A.21	\	26.57	27.00	0.347	**0.38**	0.187	**0.21**	0.10
1	Head	LTE Band41-PC2	40620	2593	1RB-Middle	Tilt Right	0mm	\	\	26.57	27.00	0.267	**0.29**	0.134	**0.15**	0.14
1	Head	LTE Band41-PC2	40620	2593	50RB-High	Cheek Left	0mm	\	\	25.56	26.00	0.243	**0.27**	0.117	**0.13**	0.08
1	Head	LTE Band41-PC2	40620	2593	50RB-High	Tilt Left	0mm	\	\	25.56	26.00	0.193	**0.21**	0.097	**0.11**	-0.16
1	Head	LTE Band41-PC2	40620	2593	50RB-High	Cheek Right	0mm	\	\	25.56	26.00	0.337	**0.37**	0.182	**0.20**	-0.11
1	Head	LTE Band41-PC2	40620	2593	50RB-High	Tilt Right	0mm	\	\	25.56	26.00	0.267	**0.30**	0.134	**0.15**	0.11
1	Body	LTE Band41-PC2	41490	2680	1RB-Middle	Front	10mm	\	\	22.52	23.50	0.201	**0.25**	0.117	**0.15**	-0.02
1	Body	LTE Band41-PC2	41490	2680	1RB-Middle	Rear	10mm	\	\	22.52	23.50	0.280	**0.35**	0.163	**0.20**	0.15
1	Body	LTE Band41-PC2	41490	2680	1RB-Middle	Left	10mm	\	\	22.52	23.50	0.060	**0.08**	0.019	**0.02**	0.09
1	Body	LTE Band41-PC2	41490	2680	1RB-Middle	Right	10mm	\	\	22.52	23.50	0.068	**0.09**	0.037	**0.05**	0.02
1	Body	LTE Band41-PC2	41490	2680	1RB-Middle	Bottom	10mm	FIG A.21	\	22.52	23.50	0.323	**0.40**	0.166	**0.21**	-0.06
1	Body	LTE Band41-PC2	41490	2680	50RB-High	Front	10mm	\	\	22.62	23.50	0.190	**0.23**	0.113	**0.14**	0.10
1	Body	LTE Band41-PC2	41490	2680	50RB-High	Rear	10mm	\	\	22.62	23.50	0.271	**0.33**	0.155	**0.19**	-0.14
1	Body	LTE Band41-PC2	41490	2680	50RB-High	Left	10mm	\	\	22.62	23.50	0.058	**0.07**	0.020	**0.02**	0.19
1	Body	LTE Band41-PC2	41490	2680	50RB-High	Right	10mm	\	\	22.62	23.50	0.111	**0.14**	0.058	**0.07**	-0.13
1	Body	LTE Band41-PC2	41490	2680	50RB-High	Bottom	10mm	\	\	22.62	23.50	0.232	**0.28**	0.125	**0.15**	0.02
1	Body	LTE Band41-PC2	41490	2680	1RB-Middle	Front	15mm	\	\	23.47	24.50	0.181	**0.23**	0.102	**0.13**	0.12
1	Body	LTE Band41-PC2	41490	2680	1RB-Middle	Rear	15mm	FIG A.22	\	23.47	24.50	0.246	**0.31**	0.135	**0.17**	0.13
1	Body	LTE Band41-PC2	41490	2680	50RB-High	Front	15mm	\	\	23.54	24.50	0.184	**0.23**	0.104	**0.13**	0.05
1	Body	LTE Band41-PC2	41490	2680	50RB-High	Rear	15mm	\	\	23.54	24.50	0.236	**0.29**	0.131	**0.16**	0.03
1	Head	LTE Band41-PC3	40620	2593	1RB-Low	Cheek Left	0mm	\	\	24.09	24.50	0.201	**0.22**	0.097	**0.11**	0.10
1	Head	LTE Band41-PC3	40620	2593	1RB-Low	Tilt Left	0mm	\	\	24.09	24.50	0.155	**0.17**	0.076	**0.08**	0.16
1	Head	LTE Band41-PC3	40620	2593	1RB-Low	Cheek Right	0mm	FIG A.23	\	24.09	24.50	0.289	**0.32**	0.156	**0.17**	0.10
1	Head	LTE Band41-PC3	40620	2593	1RB-Low	Tilt Right	0mm	\	\	24.09	24.50	0.235	**0.26**	0.116	**0.13**	0.17
1	Head	LTE Band41-PC3	40620	2593	50RB-High	Cheek Left	0mm	\	\	23.16	23.50	0.076	**0.08**	0.036	**0.04**	0.13
1	Head	LTE Band41-PC3	40620	2593	50RB-High	Tilt Left	0mm	\	\	23.16	23.50	0.137	**0.15**	0.068	**0.07**	0.06
1	Head	LTE Band41-PC3	40620	2593	50RB-High	Cheek Right	0mm	\	\	23.16	23.50	0.243	**0.26**	0.129	**0.14**	0.17
1	Head	LTE Band41-PC3	40620	2593	50RB-High	Tilt Right	0mm	\	\	23.16	23.50	0.191	**0.21**	0.094	**0.10**	-0.04
1	Body	LTE Band41-PC3	41490	2680	1RB-High	Front	10mm	\	\	20.12	21.00	0.157	**0.19**	0.087	**0.11**	0.10
1	Body	LTE Band41-PC3	41490	2680	1RB-High	Rear	10mm	\	\	20.12	21.00	0.219	**0.27**	0.120	**0.15**	-0.12
1	Body	LTE Band41-PC3	41490	2680	1RB-High	Left	10mm	\	\	20.12	21.00	0.047	**0.06**	0.014	**0.02**	0.13
1	Body	LTE Band41-PC3	41490	2680	1RB-High	Right	10mm	\	\	20.12	21.00	0.078	**0.10**	0.040	**0.05**	-0.02
1	Body	LTE Band41-PC3	41490	2680	1RB-High	Bottom	10mm	FIG A.24	\	20.12	21.00	0.272	**0.33**	0.139	**0.17**	0.15
1	Body	LTE Band41-PC3	41490	2680	50RB-High	Front	10mm	\	\	20.15	21.00	0.158	**0.19**	0.086	**0.10**	0.02
1	Body	LTE Band41-PC3	41490	2680	50RB-High	Rear	10mm	\	\	20.15	21.00	0.217	**0.26**	0.118	**0.14**	-0.05
1	Body	LTE Band41-PC3	41490	2680	50RB-High	Left	10mm	\	\	20.15	21.00	0.058	**0.07**	0.018	**0.02**	0.19
1	Body	LTE Band41-PC3	41490	2680	50RB-High	Right	10mm	\	\	20.15	21.00	0.068	**0.08**	0.034	**0.04**	-0.02
1	Body	LTE Band41-PC3	41490	2680	50RB-High	Bottom	10mm	\	\	20.15	21.00	0.211	**0.26**	0.109	**0.13**	0.07
1	Body	LTE Band41-PC3	41490	2680	1RB-Middle	Front	15mm	\	\	21.27	22.00	0.172	**0.20**	0.079	**0.09**	-0.04
1	Body	LTE Band41-PC3	41490	2680	1RB-Middle	Rear	15mm	FIG A.25	\	21.27	22.00	0.261	**0.31**	0.115	**0.14**	0.11
1	Body	LTE Band41-PC3	41490	2680	50RB-High	Front	15mm	\	\	21.36	22.00	0.172	**0.20**	0.078	**0.09**	-0.09
1	Body	LTE Band41-PC3	41490	2680	50RB-High	Rear	15mm	\	\	21.36	22.00	0.259	**0.30**	0.113	**0.13**	-0.16
1	Head	LTE Band66	132322	1745	1RB-Middle	Cheek Left	0mm	\	\	23.57	25.00	0.138	**0.19**	0.086	**0.12**	0.04
1	Head	LTE Band66	132322	1745	1RB-Middle	Tilt Left	0mm	\	\	23.57	25.00	0.076	**0.11**	0.054	**0.08**	0.13
1	Head	LTE Band66	132322	1745	1RB-Middle	Cheek Right	0mm	\	\	23.57	25.00	0.097	**0.13**	0.062	**0.09**	0.06
1	Head	LTE Band66	132322	1745	1RB-Middle	Tilt Right	0mm	\	\	23.57	25.00	0.063	**0.09**	0.042	**0.06**	-0.03
1	Head	LTE Band66	132572	1770	50RB-High	Cheek Left	0mm	FIG A.26	\	22.54	24.00	0.139	**0.19**	0.087	**0.12**	0.18
1	Head	LTE Band66	132572	1770	50RB-High	Tilt Left	0mm	\	\	22.54	24.00	0.070	**0.10**	0.049	**0.07**	-0.08
1	Head	LTE Band66	132572	1770	50RB-High	Cheek Right	0mm	\	\	22.54	24.00	0.090	**0.13**	0.057	**0.08**	0.07
1	Head	LTE Band66	132572	1770	50RB-High	Tilt Right	0mm	\	\	22.54	24.00	0.059	**0.08**	0.038	**0.05**	0.10
1	Body	LTE Band66	132322	1745	1RB-Middle	Front	10mm	\	\	20.60	21.00	0.255	**0.28**	0.161	**0.18**	0.14
1	Body	LTE Band66	132322	1745	1RB-Middle	Rear	10mm	\	\	20.60	21.00	0.482	**0.53**	0.298	**0.33**	-0.07
1	Body	LTE Band66	132322	1745	1RB-Middle	Left	10mm	\	\	20.60	21.00	0.029	**0.03**	0.018	**0.02**	0.12
1	Body	LTE Band66	132322	1745	1RB-Middle	Right	10mm	\	\	20.60	21.00	0.130	**0.14**	0.076	**0.08**	-0.03
1	Body	LTE Band66	132322	1745	1RB-Middle	Bottom	10mm	\	\	20.60	21.00	0.563	**0.62**	0.324	**0.36**	-0.14
1	Body	LTE Band66	132572	1770	50RB-High	Front	10mm	\	\	20.61	21.00	0.199	**0.22**	0.124	**0.14**	-0.19
1	Body	LTE Band66	132572	1770	50RB-High	Rear	10mm	\	\	20.61	21.00	0.445	**0.49**	0.273	**0.30**	-0.01
1	Body	LTE Band66	132572	1770	50RB-High	Left	10mm	\	\	20.61	21.00	0.030	**0.03**	0.018	**0.02**	-0.11
1	Body	LTE Band66	132572	1770	50RB-High	Right	10mm	\	\	20.61	21.00	0.137	**0.15**	0.077	**0.08**	-0.19
1	Body	LTE Band66	132572	1770	50RB-High	Bottom	10mm	FIG A.27	\	20.61	21.00	0.566	**0.62**	0.326	**0.36**	0.05
1	Body	LTE Band66	132572	1770	1RB-Middle	Front	15mm	\	\	21.59	22.00	0.181	**0.20**	0.115	**0.13**	-0.05
1	Body	LTE Band66	132572	1770	1RB-Middle	Rear	15mm	FIG A.28	\	21.59	22.00	0.330	**0.36**	0.205	**0.23**	0.15
1	Body	LTE Band66	132572	1770	50RB-High	Front	15mm	\	\	21.65	22.00	0.169	**0.18**	0.108	**0.12**	0.15
1	Body	LTE Band66	132572	1770	50RB-High	Rear	15mm	\	\	21.65	22.00	0.286	**0.31**	0.175	**0.19**	0.09
0	Head	LTE Band71	133322	683	1RB-Low	Cheek Left	0mm	\	\	23.73	24.00	0.326	**0.35**	0.197	**0.21**	-0.06
0	Head	LTE Band71	133322	683	1RB-Low	Tilt Left	0mm	\	\	23.73	24.00	0.368	**0.39**	0.206	**0.22**	-0.19
0	Head	LTE Band71	133322	683	1RB-Low	Cheek Right	0mm	\	\	23.73	24.00	0.368	**0.39**	0.218	**0.23**	-0.11
0	Head	LTE Band71	133322	683	1RB-Low	Tilt Right	0mm	FIG A.29	\	23.73	24.00	0.442	**0.47**	0.238	**0.25**	0.02
0	Head	LTE Band71	133322	683	50RB-Middle	Cheek Left	0mm	\	\	22.61	23.00	0.255	**0.28**	0.154	**0.17**	-0.12
0	Head	LTE Band71	133322	683	50RB-Middle	Tilt Left	0mm	\	\	22.61	23.00	0.294	**0.32**	0.163	**0.18**	0.10
0	Head	LTE Band71	133322	683	50RB-Middle	Cheek Right	0mm	\	\	22.61	23.00	0.285	**0.31**	0.169	**0.18**	0.14
0	Head	LTE Band71	133322	683	50RB-Middle	Tilt Right	0mm	\	\	22.61	23.00	0.349	**0.38**	0.188	**0.21**	0.10
0	Body	LTE Band71	133322	683	1RB-Low	Front	10mm	\	\	23.73	24.00	0.110	**0.12**	0.085	**0.09**	-0.03
0	Body	LTE Band71	133322	683	1RB-Low	Rear	10mm	\	\	23.73	24.00	0.156	**0.17**	0.118	**0.13**	-0.07
0	Body	LTE Band71	133322	683	1RB-Low	Left	10mm	FIG A.30	\	23.73	24.00	0.212	**0.23**	0.150	**0.16**	0.11
0	Body	LTE Band71	133322	683	1RB-Low	Right	10mm	\	\	23.73	24.00	0.106	**0.11**	0.075	**0.08**	0.08
0	Body	LTE Band71	133322	683	1RB-Low	Top	10mm	\	\	23.73	24.00	0.137	**0.15**	0.075	**0.08**	0.07
0	Body	LTE Band71	133322	683	50RB-Middle	Front	10mm	\	\	22.61	23.00	0.088	**0.10**	0.055	**0.06**	-0.17
0	Body	LTE Band71	133322	683	50RB-Middle	Rear	10mm	\	\	22.61	23.00	0.127	**0.14**	0.096	**0.11**	-0.14
0	Body	LTE Band71	133322	683	50RB-Middle	Left	10mm	\	\	22.61	23.00	0.172	**0.19**	0.122	**0.13**	0.04
0	Body	LTE Band71	133322	683	50RB-Middle	Right	10mm	\	\	22.61	23.00	0.084	**0.09**	0.059	**0.06**	-0.08
0	Body	LTE Band71	133322	683	50RB-Middle	Top	10mm	\	\	22.61	23.00	0.118	**0.13**	0.064	**0.07**	-0.10

14.2 SAR results for NR

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	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	N25	376500	1882.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	23.07	24.00	0.039	**0.05**	0.021	**0.03**	0.17
1	Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	23.07	24.00	0.035	**0.04**	0.018	**0.02**	-0.15
1	Head	N25	382500	1912.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	23.05	24.00	0.058	**0.07**	0.033	**0.04**	-0.07
1	Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	23.07	24.00	0.059	**0.07**	0.035	**0.04**	0.09
1	Head	N25	370500	1852.5	DFT-s-OFDM QPSK	Cheek Right	0mm	FIG A.31	23.03	24.00	0.072	**0.09**	0.045	**0.06**	0.1
1	Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	23.07	24.00	0.058	**0.07**	0.033	**0.04**	-0.1
1	Head	N25	376500	1882.5	CP-OFDM QPSK	Cheek Right	0mm	\	21.58	22.50	0.041	**0.05**	0.022	**0.03**	0.16
1	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Front	10mm	\	19.90	21.00	0.159	**0.20**	0.095	**0.12**	0.14
1	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Rear	10mm	\	19.90	21.00	0.241	**0.31**	0.138	**0.18**	0.03
1	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Left	10mm	\	19.90	21.00	0.038	**0.05**	0.021	**0.03**	-0.08
1	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Right	10mm	\	19.90	21.00	0.065	**0.08**	0.037	**0.05**	0.16
1	Body	N25	382500	1912.5	DFT-s-OFDM QPSK	Bottom	10mm	\	19.88	21.00	0.403	**0.52**	0.214	**0.28**	-0.04
1	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Bottom	10mm	FIG A.32	19.90	21.00	0.520	**0.67**	0.295	**0.38**	0.19
1	Body	N25	370500	1852.5	DFT-s-OFDM QPSK	Bottom	10mm	\	19.86	21.00	0.426	**0.55**	0.244	**0.32**	-0.02
1	Body	N25	376500	1882.5	CP-OFDM QPSK	Bottom	10mm	\	19.86	21.00	0.417	**0.54**	0.226	**0.29**	0.14
1	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Front	15mm	\	20.97	22.00	0.130	**0.16**	0.080	**0.10**	0.06
1	Body	N25	382500	1912.5	DFT-s-OFDM QPSK	Rear	15mm	\	20.95	22.00	0.180	**0.23**	0.112	**0.14**	-0.02
1	Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Rear	15mm	\	20.97	22.00	0.200	**0.25**	0.123	**0.16**	-0.01
1	Body	N25	370500	1852.5	DFT-s-OFDM QPSK	Rear	15mm	FIG A.33	20.93	22.00	0.276	**0.35**	0.170	**0.22**	0.11
1	Body	N25	376500	1882.5	CP-OFDM QPSK	Rear	15mm	\	20.93	22.00	0.185	**0.24**	0.116	**0.15**	0.15
1	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Cheek Left	0mm	\	25.30	26.50	0.248	**0.33**	0.145	**0.19**	-0.11
1	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Tilt Left	0mm	\	25.30	26.50	0.281	**0.37**	0.141	**0.19**	0.05
1	Head	N41	528000	2640	DFT-s-OFDM QPSK	Cheek Right	0mm	FIG A.34	25.06	26.50	0.483	**0.67**	0.261	**0.36**	0.15
1	Head	N41	523299	2616.495	DFT-s-OFDM QPSK	Cheek Right	0mm	\	25.28	26.50	0.454	**0.60**	0.245	**0.32**	-0.09
1	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Cheek Right	0mm	\	25.30	26.50	0.355	**0.47**	0.193	**0.25**	-0.05
1	Head	N41	513900	2569.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	25.25	26.50	0.397	**0.53**	0.214	**0.29**	0.14
1	Head	N41	509202	2546.01	DFT-s-OFDM QPSK	Cheek Right	0mm	\	25.21	26.50	0.371	**0.50**	0.200	**0.27**	-0.15
1	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Tilt Right	0mm	\	25.30	26.50	0.206	**0.27**	0.104	**0.14**	0.06
1	Head	N41	518598	2592.99	CP-OFDM QPSK	Cheek Right	0mm	\	23.85	25.00	0.243	**0.32**	0.143	**0.19**	-0.12
1	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Front	10mm	\	21.51	22.00	0.210	**0.24**	0.117	**0.13**	-0.13
1	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Rear	10mm	\	21.51	22.00	0.365	**0.41**	0.185	**0.21**	-0.14
1	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Left	10mm	\	21.51	22.00	0.047	**0.05**	0.029	**0.03**	-0.18
1	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Right	10mm	\	21.51	22.00	0.143	**0.16**	0.068	**0.08**	-0.11
1	Body	N41	528000	2640	DFT-s-OFDM QPSK	Bottom	10mm	\	21.31	22.00	0.406	**0.48**	0.209	**0.24**	-0.01
1	Body	N41	523299	2616.495	DFT-s-OFDM QPSK	Bottom	10mm	FIG A.35	21.48	22.00	0.427	**0.48**	0.219	**0.25**	0.07
1	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Bottom	10mm	\	21.51	22.00	0.424	**0.47**	0.203	**0.23**	-0.05
1	Body	N41	513900	2569.5	DFT-s-OFDM QPSK	Bottom	10mm	\	21.45	22.00	0.258	**0.29**	0.132	**0.15**	0.06
1	Body	N41	509202	2546.01	DFT-s-OFDM QPSK	Bottom	10mm	\	21.42	22.00	0.323	**0.37**	0.166	**0.19**	0.04
1	Body	N41	518598	2592.99	CP-OFDM 16QAM	Bottom	10mm	\	21.44	22.00	0.408	**0.46**	0.211	**0.24**	0.16
1	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Front	15mm	\	22.50	23.00	0.180	**0.20**	0.105	**0.12**	-0.12
1	Body	N41	528000	2640	DFT-s-OFDM QPSK	Rear	15mm	FIG A.36	22.40	23.00	0.282	**0.32**	0.157	**0.18**	0.19
1	Body	N41	523299	2616.495	DFT-s-OFDM QPSK	Rear	15mm	\	22.48	23.00	0.275	**0.31**	0.155	**0.17**	-0.16
1	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Rear	15mm	\	22.50	23.00	0.266	**0.30**	0.152	**0.17**	0.09
1	Body	N41	513900	2569.5	DFT-s-OFDM QPSK	Rear	15mm	\	22.45	23.00	0.253	**0.29**	0.145	**0.16**	-0.11
1	Body	N41	509202	2546.01	DFT-s-OFDM QPSK	Rear	15mm	\	22.42	23.00	0.236	**0.27**	0.136	**0.16**	-0.04
1	Body	N41	518598	2592.99	CP-OFDM 16QAM	Rear	15mm	\	22.41	23.00	0.252	**0.29**	0.146	**0.17**	-0.13
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Left	0mm	\	23.21	24.50	0.048	**0.06**	0.032	**0.04**	0.14
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Left	0mm	\	23.21	24.50	0.031	**0.04**	0.018	**0.02**	0.14
1	Head	N66	355500	1777.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	23.13	24.50	0.055	**0.08**	0.037	**0.05**	-0.19
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Right	0mm	\	23.21	24.50	0.063	**0.08**	0.041	**0.06**	-0.01
1	Head	N66	342500	1712.5	DFT-s-OFDM QPSK	Cheek Right	0mm	FIG A.37	23.15	24.50	0.066	**0.09**	0.042	**0.06**	0.16
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Right	0mm	\	23.21	24.50	0.036	**0.05**	0.020	**0.03**	-0.06
1	Head	N66	349000	1745	CP-OFDM QPSK	Cheek Right	0mm	\	21.65	23.00	0.043	**0.06**	0.027	**0.04**	0.04
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	10mm	\	20.21	21.00	0.212	**0.25**	0.125	**0.15**	-0.04
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	10mm	\	20.21	21.00	0.395	**0.47**	0.223	**0.27**	0.15
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Left	10mm	\	20.21	21.00	0.051	**0.06**	0.036	**0.04**	0.01
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Right	10mm	\	20.21	21.00	0.034	**0.04**	0.020	**0.02**	-0.01
1	Body	N66	355500	1777.5	DFT-s-OFDM QPSK	Bottom	10mm	\	20.14	21.00	0.515	**0.63**	0.286	**0.35**	0.15
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Bottom	10mm	\	20.21	21.00	0.432	**0.52**	0.241	**0.29**	-0.02
1	Body	N66	342500	1712.5	DFT-s-OFDM QPSK	Bottom	10mm	FIG A.38	20.16	21.00	0.548	**0.66**	0.310	**0.38**	0.04
1	Body	N66	349000	1745	CP-OFDM QPSK	Bottom	10mm	\	20.14	21.00	0.417	**0.51**	0.225	**0.27**	0.09
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	15mm	\	21.22	22.00	0.171	**0.20**	0.103	**0.12**	0.04
1	Body	N66	355500	1777.5	DFT-s-OFDM QPSK	Rear	15mm	\	21.15	22.00	0.251	**0.31**	0.145	**0.18**	-0.1
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	15mm	\	21.22	22.00	0.231	**0.28**	0.134	**0.16**	-0.07
1	Body	N66	342500	1712.5	DFT-s-OFDM QPSK	Rear	15mm	FIG A.39	21.17	22.00	0.290	**0.35**	0.182	**0.22**	0.14
1	Body	N66	349000	1745	CP-OFDM QPSK	Rear	15mm	\	21.15	22.00	0.211	**0.26**	0.123	**0.15**	0.16
0	Head	N71	136100	680.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	23.34	24.00	0.222	**0.26**	0.136	**0.16**	0.1
0	Head	N71	136100	680.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	23.34	24.00	0.245	**0.29**	0.138	**0.16**	-0.03
0	Head	N71	136100	680.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	23.34	24.00	0.237	**0.28**	0.144	**0.17**	0.02
0	Head	N71	139100	695.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	23.24	24.00	0.236	**0.28**	0.128	**0.15**	-0.15
0	Head	N71	136100	680.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	23.34	24.00	0.268	**0.31**	0.148	**0.17**	-0.17
0	Head	N71	133100	665.5	DFT-s-OFDM QPSK	Tilt Right	0mm	FIG A.40	23.25	24.00	0.310	**0.37**	0.169	**0.20**	0.05
0	Head	N71	136100	680.5	CP-OFDM QPSK	Tilt Right	0mm	\	21.62	22.50	0.209	**0.26**	0.121	**0.15**	0.18
0	Body	N71	136100	680.5	DFT-s-OFDM QPSK	Front	10mm	\	23.34	24.00	0.111	**0.13**	0.068	**0.08**	0.02
0	Body	N71	139100	695.5	DFT-s-OFDM QPSK	Rear	10mm	\	23.24	24.00	0.151	**0.18**	0.091	**0.11**	-0.16
0	Body	N71	136100	680.5	DFT-s-OFDM QPSK	Rear	10mm	FIG A.41	23.34	24.00	0.166	**0.19**	0.098	**0.11**	-0.12
0	Body	N71	133100	665.5	DFT-s-OFDM QPSK	Rear	10mm	\	23.25	24.00	0.163	**0.19**	0.095	**0.11**	0.09
0	Body	N71	136100	680.5	DFT-s-OFDM QPSK	Left	10mm	\	23.34	24.00	0.125	**0.15**	0.084	**0.10**	0.07
0	Body	N71	136100	680.5	DFT-s-OFDM QPSK	Right	10mm	\	23.34	24.00	0.027	**0.03**	0.018	**0.02**	-0.1
0	Body	N71	136100	680.5	DFT-s-OFDM QPSK	Top	10mm	\	23.34	24.00	0.137	**0.16**	0.069	**0.08**	-0.15
0	Body	N71	136100	680.5	CP-OFDM QPSK	Rear	10mm	\	21.62	22.50	0.123	**0.15**	0.081	**0.10**	-0.07

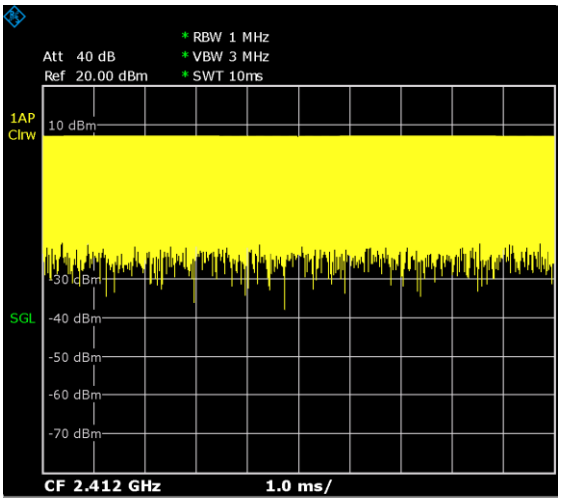
14.3 SAR Evaluation for WIFI

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

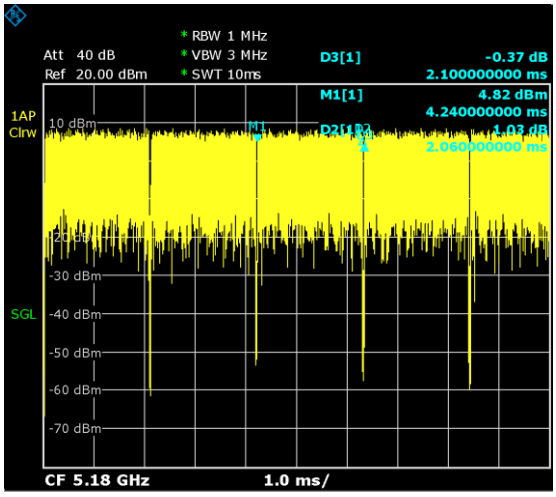
When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.

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

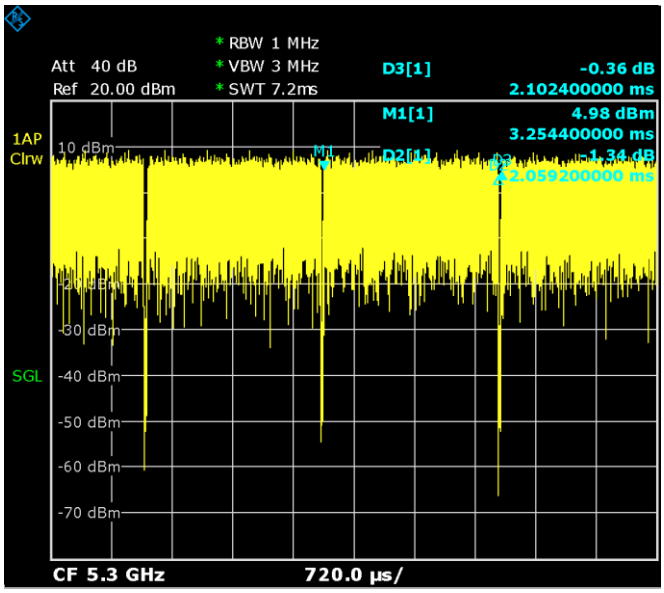
Duty factor plot



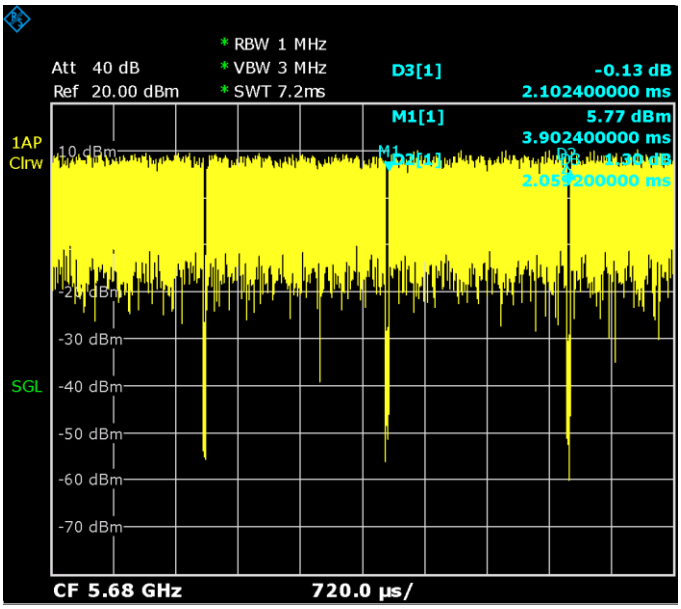
CH1



CH36



CH60



CH136

SAR results for WLAN 2.4G

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	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	Duty Cycle
3	Head	WIFI2.4G	1	2412	11b	Cheek Left	0mm	FIG A.42	\	15.93	16.00	0.361	**0.37**	0.184	**0.19**	0.04	100.00%
3	Head	WIFI2.4G	1	2412	11b	Tilt Left	0mm	\	\	15.93	16.00	0.233	**0.24**	0.111	**0.11**	0.17	100.00%
3	Head	WIFI2.4G	1	2412	11b	Cheek Right	0mm	\	\	15.93	16.00	0.127	**0.13**	0.070	**0.07**	0.13	100.00%
3	Head	WIFI2.4G	1	2412	11b	Tilt Right	0mm	\	\	15.93	16.00	0.168	**0.17**	0.080	**0.08**	-0.08	100.00%
3																	
3	Body	WIFI2.4G	1	2412	11b	Front	10mm	\	\	20.85	21.00	0.187	**0.19**	0.104	**0.11**	-0.09	100.00%
3	Body	WIFI2.4G	1	2412	11b	Rear	10mm	\	\	20.85	21.00	0.182	**0.19**	0.098	**0.10**	0.13	100.00%
3	Body	WIFI2.4G	1	2412	11b	Left	10mm	\	\	20.85	21.00	0.058	**0.06**	0.031	**0.03**	0.02	100.00%
3	Body	WIFI2.4G	1	2412	11b	Right	10mm	\	\	20.85	21.00	0.149	**0.15**	0.082	**0.08**	0.15	100.00%
3	Body	WIFI2.4G	1	2412	11b	Top	10mm	FIG A.43	\	20.85	21.00	0.219	**0.23**	0.116	**0.12**	0.03	100.00%
3	Body	WIFI2.4G	1	2412	11b	Front	15mm	FIG A.44	\	20.85	21.00	0.100	**0.10**	0.059	**0.06**	0.16	100.00%
3	Body	WIFI2.4G	1	2412	11b	Rear	15mm	\	\	20.85	21.00	0.097	**0.10**	0.057	**0.06**	-0.18	100.00%

SAR results for WLAN 5G

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	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	Duty Cycle
3	Head	WIFI5G	44	5220	11a	Cheek Left	0mm	\	Note1	14.69	15.50	0.394	**0.48**	0.217	**0.26**	0.07	97.95%
3	Head	WIFI5G	44	5220	11a	Tilt Left	0mm	\	Note1	14.69	15.50	0.488	**0.60**	0.156	**0.19**	0.09	97.95%
3	Head	WIFI5G	44	5220	11a	Cheek Right	0mm	\	Note1	14.69	15.50	0.231	**0.28**	0.089	**0.11**	0.19	97.95%
3	Head	WIFI5G	44	5220	11a	Tilt Right	0mm	\	Note1	14.69	15.50	0.510	**0.63**	0.174	**0.21**	0.03	97.95%
3	Head	WIFI5G	60	5300	11a	Cheek Left	0mm	\	Note1	14.64	15.50	0.603	**0.75**	0.258	**0.31**	-0.03	97.95%
3	Head	WIFI5G	60	5300	11a	Tilt Left	0mm	FIG A.45	Note1	14.64	15.50	0.706	**0.88**	0.185	**0.23**	0.04	97.95%
3	Head	WIFI5G	56	5280	11a	Tilt Right	0mm	\	Note1	14.58	15.50	0.582	**0.73**	0.161	**0.20**	0.02	97.95%
3	Head	WIFI5G	60	5300	11a	Cheek Right	0mm	\	Note1	14.64	15.50	0.276	**0.34**	0.099	**0.12**	-0.01	97.95%
3	Head	WIFI5G	60	5300	11a	Tilt Right	0mm	\	Note1	14.64	15.50	0.413	**0.51**	0.147	**0.18**	0.05	97.95%
3	Head	WIFI5G	144	5720	11a	Cheek Left	0mm	\	Note1	14.99	15.50	0.423	**0.49**	0.229	**0.26**	0.02	97.95%
3	Head	WIFI5G	144	5720	11a	Tilt Left	0mm	\	Note1	14.99	15.50	0.673	**0.77**	0.183	**0.21**	-0.12	97.95%
3	Head	WIFI5G	144	5720	11a	Cheek Right	0mm	\	Note1	14.99	15.50	0.231	**0.27**	0.085	**0.10**	0.13	97.95%
3	Head	WIFI5G	144	5720	11a	Tilt Right	0mm	\	Note1	14.99	15.50	0.385	**0.44**	0.155	**0.17**	-0.07	97.95%
3	Head	WIFI5G	153	5765	11a	Cheek Left	0mm	\	Note1	15.11	15.50	0.400	**0.45**	0.192	**0.21**	0.02	97.95%
3	Head	WIFI5G	153	5765	11a	Tilt Left	0mm	\	Note1	15.11	15.50	0.442	**0.49**	0.128	**0.14**	0.01	97.95%
3	Head	WIFI5G	153	5765	11a	Cheek Right	0mm	\	Note1	15.11	15.50	0.146	**0.16**	0.052	**0.06**	-0.19	97.95%
3	Head	WIFI5G	153	5765	11a	Tilt Right	0mm	\	Note1	15.11	15.50	0.266	**0.30**	0.102	**0.11**	-0.12	97.95%
3	Head	WIFI5G	40	5200	11a	Cheek Left	0mm	\	Note2	8.90	10.00	0.138	**0.18**	0.035	**0.05**	-0.04	97.95%
3	Head	WIFI5G	40	5200	11a	Tilt Left	0mm	\	Note2	8.90	10.00	0.179	**0.24**	0.047	**0.06**	0.19	97.95%
3	Head	WIFI5G	40	5200	11a	Cheek Right	0mm	\	Note2	8.90	10.00	0.058	**0.08**	0.021	**0.03**	0.13	97.95%
3	Head	WIFI5G	40	5200	11a	Tilt Right	0mm	\	Note2	8.90	10.00	0.069	**0.09**	0.023	**0.03**	-0.08	97.95%
3	Head	WIFI5G	56	5280	11a	Cheek Left	0mm	\	Note2	9.19	10.00	0.133	**0.16**	0.033	**0.04**	-0.07	97.95%
3	Head	WIFI5G	56	5280	11a	Tilt Left	0mm	\	Note2	9.19	10.00	0.139	**0.17**	0.043	**0.05**	-0.06	97.95%
3	Head	WIFI5G	56	5280	11a	Cheek Right	0mm	\	Note2	9.19	10.00	0.070	**0.09**	0.022	**0.03**	0.18	97.95%
3	Head	WIFI5G	56	5280	11a	Tilt Right	0mm	\	Note2	9.19	10.00	0.123	**0.15**	0.042	**0.05**	0.13	97.95%
3	Head	WIFI5G	144	5720	11a	Cheek Left	0mm	\	Note2	9.64	10.00	0.077	**0.09**	0.035	**0.04**	0.16	97.95%
3	Head	WIFI5G	144	5720	11a	Tilt Left	0mm	\	Note2	9.64	10.00	0.209	**0.23**	0.052	**0.06**	0.14	97.95%
3	Head	WIFI5G	144	5720	11a	Cheek Right	0mm	\	Note2	9.64	10.00	0.092	**0.10**	0.029	**0.03**	-0.16	97.95%
3	Head	WIFI5G	144	5720	11a	Tilt Right	0mm	\	Note2	9.64	10.00	0.114	**0.13**	0.039	**0.04**	0.1	97.95%
3	Head	WIFI5G	153	5765	11a	Cheek Left	0mm	\	Note2	8.83	10.00	0.056	**0.07**	0.012	**0.02**	-0.13	97.95%
3	Head	WIFI5G	153	5765	11a	Tilt Left	0mm	\	Note2	8.83	10.00	0.097	**0.13**	0.026	**0.03**	0.13	97.95%
3	Head	WIFI5G	153	5765	11a	Cheek Right	0mm	\	Note2	8.83	10.00	0.051	**0.07**	0.017	**0.02**	0.15	97.95%
3	Head	WIFI5G	153	5765	11a	Tilt Right	0mm	\	Note2	8.83	10.00	0.102	**0.14**	0.036	**0.05**	0.05	97.95%

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	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	Duty Cycle
3	Body	WIFI5G	36	5180	11a	Front	10mm	\	Note1	14.69	15.50	0.107	**0.13**	0.036	**0.04**	-0.01	97.95%
3	Body	WIFI5G	36	5180	11a	Rear	10mm	\	Note1	14.69	15.50	0.375	**0.46**	0.125	**0.15**	0.05	97.95%
3	Body	WIFI5G	36	5180	11a	Left	10mm	\	Note1	14.69	15.50	0.059	**0.07**	0.018	**0.02**	-0.08	97.95%
3	Body	WIFI5G	36	5180	11a	Right	10mm	\	Note1	14.69	15.50	0.164	**0.20**	0.062	**0.07**	-0.18	97.95%
3	Body	WIFI5G	36	5180	11a	Top	10mm	FIG A.46	Note1	14.69	15.50	0.389	**0.48**	0.136	**0.16**	-0.12	97.95%
3	Body	WIFI5G	60	5300	11a	Front	10mm	\	Note1	14.64	15.50	0.119	**0.15**	0.039	**0.05**	-0.09	97.95%
3	Body	WIFI5G	60	5300	11a	Rear	10mm	\	Note1	14.64	15.50	0.381	**0.47**	0.123	**0.15**	-0.03	97.95%
3	Body	WIFI5G	60	5300	11a	Left	10mm	\	Note1	14.64	15.50	0.055	**0.07**	0.019	**0.02**	0.02	97.95%
3	Body	WIFI5G	60	5300	11a	Right	10mm	\	Note1	14.64	15.50	0.167	**0.21**	0.063	**0.08**	-0.1	97.95%
3	Body	WIFI5G	60	5300	11a	Top	10mm	\	Note1	14.64	15.50	0.357	**0.44**	0.123	**0.15**	-0.14	97.95%
3	Body	WIFI5G	144	5720	11a	Front	10mm	\	Note1	14.99	15.50	0.125	**0.14**	0.047	**0.05**	-0.18	97.95%
3	Body	WIFI5G	144	5720	11a	Rear	10mm	\	Note1	14.99	15.50	0.291	**0.33**	0.108	**0.12**	0.17	97.95%
3	Body	WIFI5G	144	5720	11a	Left	10mm	\	Note1	14.99	15.50	0.037	**0.04**	0.013	**0.01**	0.12	97.95%
3	Body	WIFI5G	144	5720	11a	Right	10mm	\	Note1	14.99	15.50	0.166	**0.19**	0.070	**0.08**	-0.16	97.95%
3	Body	WIFI5G	144	5720	11a	Top	10mm	\	Note1	14.99	15.50	0.393	**0.45**	0.140	**0.16**	0.02	97.95%
3	Body	WIFI5G	153	5765	11a	Front	10mm	\	Note1	15.11	15.50	0.100	**0.11**	0.032	**0.04**	-0.02	97.95%
3	Body	WIFI5G	153	5765	11a	Rear	10mm	\	Note1	15.11	15.50	0.248	**0.28**	0.091	**0.10**	0.01	97.95%
3	Body	WIFI5G	153	5765	11a	Left	10mm	\	Note1	15.11	15.50	0.052	**0.06**	0.015	**0.02**	-0.05	97.95%
3	Body	WIFI5G	153	5765	11a	Right	10mm	\	Note1	15.11	15.50	0.163	**0.18**	0.067	**0.07**	0.1	97.95%
3	Body	WIFI5G	153	5765	11a	Top	10mm	\	Note1	15.11	15.50	0.343	**0.38**	0.121	**0.13**	0.11	97.95%
3	Body	WIFI5G	157	5785	11a	Top	0mm	\	Note1	19.24	20.00	7.500	**9.12**	1.720	**2.05**	0.1	97.95%
3	Body	WIFI5G	44	5220	11a	Front	10mm	\	Note2	11.83	12.00	0.058	**0.06**	0.021	**0.02**	-0.03	97.95%
3	Body	WIFI5G	44	5220	11a	Rear	10mm	\	Note2	11.83	12.00	0.188	**0.20**	0.067	**0.07**	0.06	97.95%
3	Body	WIFI5G	44	5220	11a	Left	10mm	\	Note2	11.83	12.00	<0.01	**<0.01**	<0.01	**<0.01**		97.95%
3	Body	WIFI5G	44	5220	11a	Right	10mm	\	Note2	11.83	12.00	0.081	**0.09**	0.034	**0.04**	-0.08	97.95%
3	Body	WIFI5G	44	5220	11a	Top	10mm	\	Note2	11.83	12.00	0.207	**0.22**	0.077	**0.08**	-0.07	97.95%
3	Body	WIFI5G	60	5300	11a	Front	10mm	\	Note2	11.42	12.00	0.051	**0.06**	0.019	**0.02**	0.09	97.95%
3	Body	WIFI5G	60	5300	11a	Rear	10mm	\	Note2	11.42	12.00	0.184	**0.21**	0.066	**0.08**	0.13	97.95%
3	Body	WIFI5G	60	5300	11a	Left	10mm	\	Note2	11.42	12.00	<0.01	**<0.01**	<0.01	**<0.01**		97.95%
3	Body	WIFI5G	60	5300	11a	Right	10mm	\	Note2	11.42	12.00	0.089	**0.10**	0.036	**0.04**	0.04	97.95%
3	Body	WIFI5G	60	5300	11a	Top	10mm	\	Note2	11.42	12.00	0.213	**0.25**	0.078	**0.09**	-0.01	97.95%
3	Body	WIFI5G	140	5700	11a	Front	10mm	\	Note2	11.96	12.00	0.057	**0.06**	0.023	**0.02**	0.04	97.95%
3	Body	WIFI5G	140	5700	11a	Rear	10mm	\	Note2	11.96	12.00	0.157	**0.16**	0.058	**0.06**	0.04	97.95%
3	Body	WIFI5G	140	5700	11a	Left	10mm	\	Note2	11.96	12.00	<0.01	**<0.01**	<0.01	**<0.01**		97.95%
3	Body	WIFI5G	140	5700	11a	Right	10mm	\	Note2	11.96	12.00	0.101	**0.10**	0.040	**0.04**	0.19	97.95%
3	Body	WIFI5G	140	5700	11a	Top	10mm	\	Note2	11.96	12.00	0.229	**0.24**	0.082	**0.08**	0.12	97.95%
3	Body	WIFI5G	153	5765	11a	Front	10mm	\	Note2	11.39	12.00	0.042	**0.05**	0.024	**0.03**	-0.04	97.95%
3	Body	WIFI5G	153	5765	11a	Rear	10mm	\	Note2	11.39	12.00	0.098	**0.12**	0.039	**0.04**	-0.02	97.95%
3	Body	WIFI5G	153	5765	11a	Left	10mm	\	Note2	11.39	12.00	<0.01	**<0.01**	<0.01	**<0.01**		97.95%
3	Body	WIFI5G	153	5765	11a	Right	10mm	\	Note2	11.39	12.00	0.062	**0.07**	0.026	**0.03**	-0.17	97.95%
3	Body	WIFI5G	153	5765	11a	Top	10mm	\	Note2	11.39	12.00	0.158	**0.19**	0.056	**0.06**	-0.02	97.95%
3	Body	WIFI5G	36	5180	11a	Front	15mm	\	\	18.46	19.00	0.176	**0.20**	0.072	**0.08**	0.09	97.95%
3	Body	WIFI5G	36	5180	11a	Rear	15mm	\	\	18.46	19.00	0.604	**0.70**	0.243	**0.28**	0.08	97.95%
3	Body	WIFI5G	64	5320	11a	Front	15mm	\	\	18.47	19.50	0.171	**0.22**	0.064	**0.08**	-0.07	97.95%
3	Body	WIFI5G	64	5320	11a	Rear	15mm	\	\	18.47	19.50	0.537	**0.69**	0.214	**0.27**	0.18	97.95%
3	Body	WIFI5G	136	5680	11a	Front	15mm	\	\	19.28	20.00	0.273	**0.33**	0.101	**0.12**	0.1	97.95%
3	Body	WIFI5G	136	5680	11a	Rear	15mm	FIG A.47	\	19.28	20.00	0.730	**0.88**	0.273	**0.32**	0.16	97.95%
3	Body	WIFI5G	144	5720	11a	Rear	15mm	\	\	19.26	20.00	0.626	**0.76**	0.237	**0.28**	0.13	97.95%
3	Body	WIFI5G	153	5765	11a	Front	15mm	\	\	19.29	20.00	0.207	**0.25**	0.078	**0.09**	0.15	97.95%
3	Body	WIFI5G	153	5765	11a	Rear	15mm	\	\	19.29	20.00	0.619	**0.74**	0.252	**0.30**	-0.15	97.95%

14.4 SAR Evaluation For BT

SAR results for BT

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	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
3	Head	BT	78	2480	GFSK	Cheek Left	0mm	FIG A.48	\	9.47	10.50	0.050	**0.06**	0.022	**0.03**	0.15
3	Head	BT	78	2480	GFSK	Tilt Left	0mm	\	\	9.47	10.50	0.032	**0.04**	0.013	**0.02**	-0.05
3	Head	BT	78	2480	GFSK	Cheek Right	0mm	\	\	9.47	10.50	0.018	**0.02**	0.008	**0.01**	-0.19
3	Head	BT	78	2480	GFSK	Tilt Right	0mm	\	\	9.47	10.50	0.023	**0.03**	0.010	**0.01**	0.12
3	Body	BT	78	2480	GFSK	Front	10mm	\	\	9.47	10.50	0.129	**0.16**	0.044	**0.06**	-0.01
3	Body	BT	78	2480	GFSK	Rear	10mm	\	\	9.47	10.50	0.125	**0.16**	0.042	**0.05**	-0.08
3	Body	BT	78	2480	GFSK	Left	10mm	\	\	9.47	10.50	0.040	**0.05**	0.013	**0.02**	-0.17
3	Body	BT	78	2480	GFSK	Right	10mm	\	\	9.47	10.50	0.102	**0.13**	0.035	**0.04**	0.06
3	Body	BT	78	2480	GFSK	Top	10mm	FIG A.49	\	9.47	10.50	0.176	**0.22**	0.059	**0.07**	0.05

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

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	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	Duty Cycle
3	Body	WIFI5G	157	5785	11a	Top	0mm	\	Note1	19.24	20.00	7.500	**9.12**	1.720	**2.05**	0.1	97.95%

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)
0	Head	WCDMA 850	4183	836.6	RMC	Tilt Right	0mm	0.818	0.803	1.02	/
0	Head	LTE Band26	26865	831.5	1RB-Middle	Cheek Left	0mm	0.821	0.791	1.04	/
0	Head	LTE Band26	26965	841.5	1RB-Middle	Tilt Left	0mm	0.937	0.912	1.03	/
0	Head	LTE Band26	26865	831.5	1RB-Middle	Tilt Left	0mm	0.980	0.955	1.03	/
0	Head	LTE Band26	26775	822.5	1RB-Middle	Tilt Left	0mm	0.866	0.851	1.02	/
0	Head	LTE Band26	26965	841.5	1RB-Middle	Cheek Right	0mm	0.803	0.764	1.05	/
0	Head	LTE Band26	26865	831.5	1RB-Middle	Cheek Right	0mm	0.856	0.835	1.03	/
0	Head	LTE Band26	26775	822.5	1RB-Middle	Cheek Right	0mm	0.887	0.849	1.04	/
0	Head	LTE Band26	26965	841.5	1RB-Middle	Tilt Right	0mm	0.990	0.953	1.04	/
0	Head	LTE Band26	26865	831.5	1RB-Middle	Tilt Right	0mm	1.030	1.000	1.03	/
0	Head	LTE Band26	26775	822.5	1RB-Middle	Tilt Right	0mm	1.010	0.992	1.02	/
0	Head	LTE Band26	26865	831.5	100RB	Tilt Right	0mm	0.835	0.821	1.02	/
0	Head	LTE Band26	26865	831.5	1RB-Middle	Tilt Right	0mm	0.996	0.981	1.02	/

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	√3	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	√3	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	√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	√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	0.4	R	√3	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	√3	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	√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	√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	$u_c^{'} = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$					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	√3	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	√3	1	1	0.6	0.6	∞
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	0.4	R	√3	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	√3	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	√3	1	1	0.6	0.6	∞
14	Fast SAR z-Approximation	B	7.0	R	√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	√3	1	1	2.9	2.9	∞
Phantom and set-up										
18	Phantom uncertainty	B	4.0	R	√3	1	1	2.3	2.3	∞
19	Liquid conductivity (target)	B	5.0	R	√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	1807	May 14,2024	One year
08	E-field Probe	SPEAG EX3DV4	3846	June 19，2024	One year
09	DAE	SPEAG DAE4	1331	September 13,2024	One year
10	E-field Probe	SPEAG EX3DV4	7673	July 29,,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 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 Accreditation Certificate