TESTING
NVLAP LAB CODE 600118-0

SAR TEST REPORT

No.I22Z61716-SEM01

For

TCL Communication Ltd.

GSM/UMTS/LTE Mobile phone

Model name: T607DL/T430V/T430M

With

Hardware Version: 04

Software Version: UH3F

FCC ID: 2ACCJH167

Issued Date: 2022-10-10

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:

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REPORT HISTORY

Report Number	Revision	Issue Date	Description
I22Z61716-SEM01	Rev.0	2022-10-10	Initial creation of test report

TABLE OF CONTENT

1 Test Laboratory

1.1 Testing Location

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

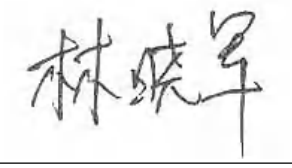
1.2 Testing Environment

Temperature:	18°C~25°C,
Relative humidity:	30%~ 70%
Ground system resistance:	< 0.5
Ambient noise & Reflection:	< 0.012 W/kg

1.3 Project Data

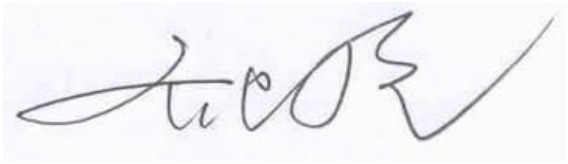
Project Leader:	Qi Dianyuan
Test Engineer:	Lin Xiaojun
Testing Start Date:	September 5, 2022
Testing End Date:	October 3, 2022

1.4 Signature



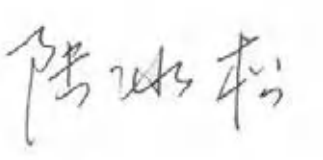
Lin Xiaojun

(Prepared this test report)



Qi Dianyuan

(Reviewed this test report)



Lu Bingsong

Deputy Director of the laboratory

(Approved this test report)

2 Statement of Compliance

This EUT is a variant product and the report of original sample is No. I22Z61676-SEM01. We do the spot check on highest value point of the original report for head and body and add LTE Band13. The results of spot check are presented in the annex I.

The maximum results of SAR found during testing for TCL Communication Ltd. GSM/UMTS/LTE Mobile phone T607DL/T430V/T430M is as follows:

Table 2.1: Highest Reported SAR -Standalone(1g)

Mode		Highest Reported SAR (1g)		
		1g SAR Head	1g SAR Body-worn 15mm	1g SAR Hotspot 10mm
GSM	GSM 850	0.47	0.71[1]	0.71
	PCS 1900	0.22	0.35	0.60
WCDMA	UMTS FDD 2	0.45	0.61	0.84
	UMTS FDD 4	0.25	0.46	0.66
	UMTS FDD 5	0.57	0.50[1]	0.50
LTE	LTE Band 2	/	/	/
	LTE Band 4	/	/	/
	LTE Band 5	/	/	/
	LTE Band 12	0.79	0.60[1]	0.60
	LTE Band 13	0.51	0.61[1]	0.61
	LTE Band 25	0.61	0.46	0.76
	LTE Band 26	0.71	0.33[1]	0.33
	LTE Band 41	0.23	0.29	0.53
	LTE Band 41 HPUE	0.30	0.38	0.71
	LTE Band 66	0.41	0.42	0.85
	LTE Band 71	0.57	0.31[1]	0.31
WLAN 2.4 GHz		1.38	0.44[1]	0.44
WLAN 5 GHz		0.85	0.96[1]	0.96

Note1: SAR result at 10mm is used for conservative evaluation.

Note2: The device have similar frequency in some LTE bands ： LTEB2/25, LTEB4/66 ,LTEB5/26 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.

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 for hotspot and 15mm for body worn 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. 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**:1.38 W/kg(1g).**

Table 2.2: The sum of SAR values for Main antenna + WiFi-2.4G

	Position	Main antenna	WiFi-2.4G	Sum
Highest SAR value for Head	Right head, Touch (LTE Band 12)	0.79	0.47	**1.26**
Highest SAR value for Body	Rear10mm (LTE Band 66)	0.75	0.17	**0.92**

Table 2.3: The sum of SAR values for Main antenna + WiFi-5G

	Position	Main antenna	WiFi-5G	Sum
Highest SAR value for Head	Right head, Touch (LTE Band 12)	0.79	0.45	**1.24**
Highest SAR value for Body	Rear10mm (LTE Band 66)	0.75	0.62	**1.37**

Table 2.4: The sum of SAR values for Main antenna + BT

	Position	Main antenna	BT	Sum
Highest SAR value for Head	Right head, Touch (LTE Band 12)	0.79	＜0.01	**0.79**
Highest SAR value for Body	Rear10mm (LTE Band 66)	0.75	＜0.01	**0.75**

Table 2.5: The sum of SAR values for Main antenna + WiFi-5G+ BT

	Position	Main antenna	WiFi-5G	BT	Sum
Highest SAR value for Head	Right head, Touch (LTE Band 12)	0.79	0.45	＜0.01	**1.24**
Highest SAR value for Body	Rear10mm (LTE Band 66)	0.75	0.62	＜0.01	**1.37**

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 **1.37W/kg (1g)**.The detail for simultaneous transmission consideration is described in chapter 14.

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
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3.2 Manufacturer Information

Company Name:	TCL Communication Ltd.
Address /Post:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact Person:	Annie Jiang
E-mail:	nianxiang.jiang@tcl.com
Telephone:	+86 755 3661 1621
Fax:	+86 755 3661 2000-81722

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

4.1 About EUT

Description:	GSM/UMTS/LTE Mobile phone
Model name:	T607DL/T430V/T430M
Operating mode(s):	GSM850/900/1800/1900,WCDMA850/900/1700,BT,Wi-Fi2.4G& 5GHz, 4G-FDD LTE Band 2/4/5/13/12/25/26/66/71/28/66, 4G-TDD LTE:B41(PC2/PC3)
Tested Tx Frequency:	824 – 849 MHz (GSM 850)
	1850 – 1910 MHz (GSM 1900)
	824–849 MHz (WCDMA 850 Band V)
	1710 – 1755 MHz (WCDMA 1700 Band IV)
	1850–1910 MHz (WCDMA1900 Band II)
	699.7 – 711 MHz(LTE Band 12)
	779.5 – 782 MHz(LTE Band 13)
	1850.7–1905 MHz(LTE Band 25)
	814.7 – 841.5 MHz(LTE Band 26)
	2498.5 –2680 MHz (LTE Band 41)
	1710.7 – 1770MHz(LTE Band66)
	665.5 – 688MHz(LTE Band71)
	2402 – 2480 MHz (Bluetooth)
	2412 – 2462 MHz (Wi-Fi 2.4G)
	5.15 – 5.35 GHz 5.47 – 5.850 GHz(Wi-Fi 5G)
GPRS/EGPRS Multislot Class:	12
GPRS capability Class:	B
Antenna type:	Integrated antenna
Hotspot mode:	Support
Note: WLAN transmit with WWAN/BT simultaneously, WLAN will invoke reduced power level	

4.2 Internal Identification of EUT used during the test

EUT ID*	IMEI	HW	SW Version
EUT1	016324000011284	04	UH3F
EUT2	016324000011052	04	UH3F
EUT3	016324000011177	04	UH3F
EUT4	016324000011292	04	UH3F
EUT5	016324000011151	04	UH3F

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

Note: It is performed to test SAR with the EUT3~5 and conducted power with the EUT1~2.

4.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN	Manufacturer
AE1	Battery	TLi028C7	/	VEKEN
AE2	Battery	TLi028D7	/	VEKEN

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

5 TEST METHODOLOGY

5.1 Applicable Limit Regulations

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

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

5.2 Applicable Measurement Standards

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

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

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

The temperature of the tissue-equivalent medium used during measurement must also be within 18 ºC to 25 ºC and within ± 2 ºC of the temperature when the tissue parameters are characterized. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 3 – 4 days of use; or earlier if the dielectric parameters can become out of tolerance; for example, when the parameters are marginal at the beginning of the measurement series.

The dielectric constant (εr) and conductivity (σ) of typical tissue-equivalent media recipes are expected to be within ± 5% of the required target values; but for SAR measurement systems that have implemented the SAR error compensation algorithms documented in IEEE Std 1528-2013, to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, the tolerance for εr and σ may be relaxed to ± 10%. This is limited to frequencies ≤ 3 GHz.

7.1 Targets for tissue simulating liquid

Table 7.1: Targets for tissue simulating liquid

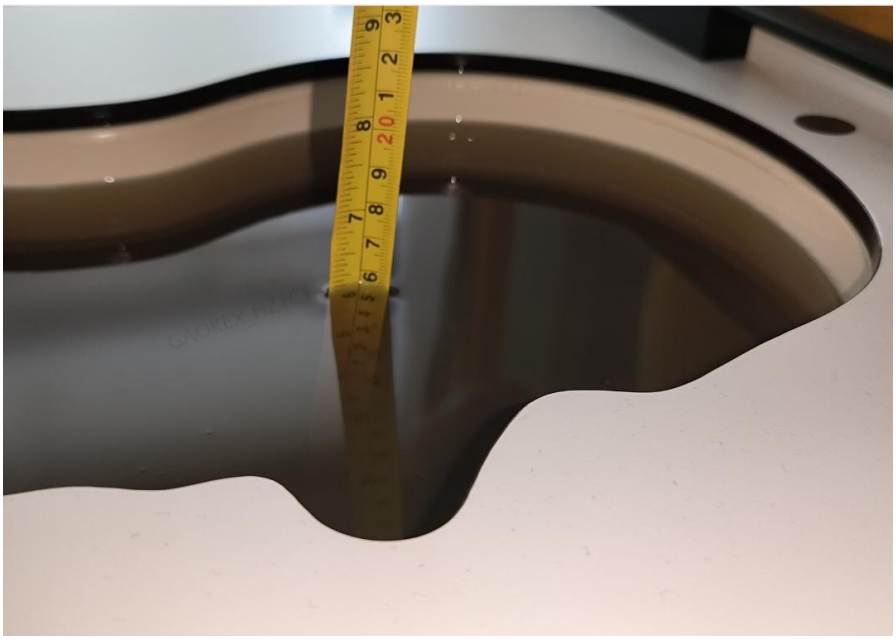
Frequency(MHz)	Liquid Type	Conductivity(σ)	±10% Range	Permittivity(ε)	± 10% Range
750	Head	0.89	0.80～0.98	41.94	37.75～46.13
835	Head	0.90	0.81～0.99	41.5	37.35～45.65
1750	Head	1.37	1.26～1.54	40.08	36～44
1900	Head	1.40	1.26～1.54	40.0	36～44
2450	Head	1.80	1.62～1.98	39.2	35.28～43.12
2600	Head	1.96	1.76～2.16	39.01	35.11～42.91
Frequency(MHz)	Liquid Type	Conductivity(σ)	±5% Range	Permittivity(ε)	± 5% Range
5250	Head	4.71	4.47～4.95	35.93	34.13～37.73
5600	Head	5.07	4.82～5.32	35.53	33.8～37.3
5750	Head	5.22	4.96～5.48	35.36	33.59～37.13

7.2 Dielectric Performance

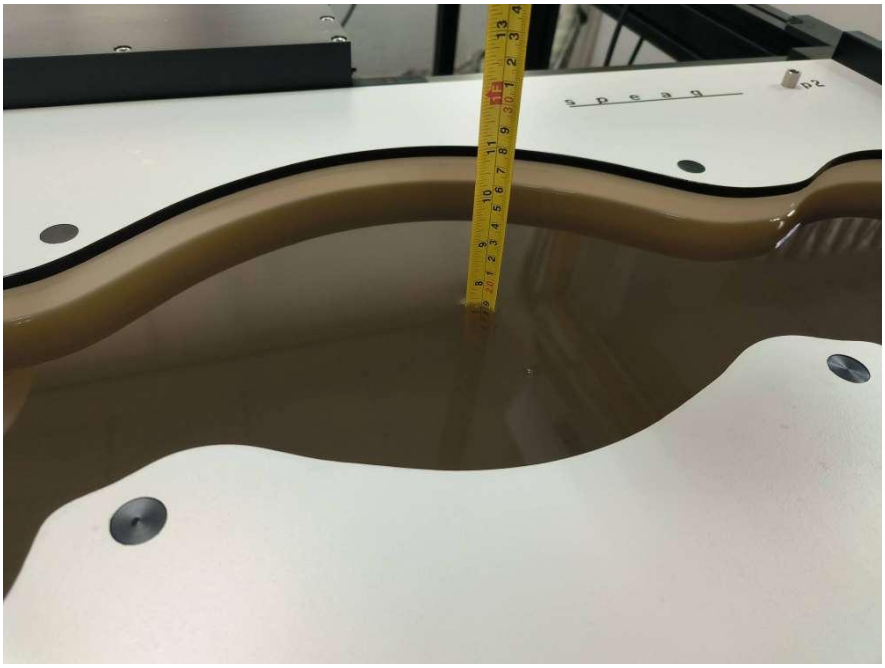
Table 7.2: Dielectric Performance of Tissue Simulating Liquid

Measurement Date (yyyy-mm-dd)	Type	Frequency	Permittivity ε	Drift (%)	Conductivity σ (S/m)	Drift (%)
2022/9/8	Head	750MHz	43.10	2.77%	0.918	3.15%
2022/9/9	Head	835MHz	42.69	2.87%	0.932	3.56%
2022/9/10	Head	1750MHz	40.79	1.77%	1.367	-0.22%
2022/9/11	Head	1900MHz	40.81	2.03%	1.458	4.14%
2022/9/12	Head	2450MHz	40.20	2.55%	1.824	1.33%
2022/9/13	Head	2450MHz	40.10	2.30%	1.812	0.67%
2022/9/14	Head	2600MHz	38.74	-0.69%	1.938	-1.12%
2022/9/15	Head	2600MHz	39.82	2.08%	1.932	-1.43%
2022/9/16	Head	5250MHz	35.36	-1.59%	4.558	-3.23%
2022/9/17	Head	5600MHz	34.68	-2.39%	4.865	-4.04%
2022/9/18	Head	5750MHz	34.21	-3.25%	5.012	-3.98%

Note: The liquid temperature is 22.0℃



Picture 7-1 Liquid depth in the Head Phantom



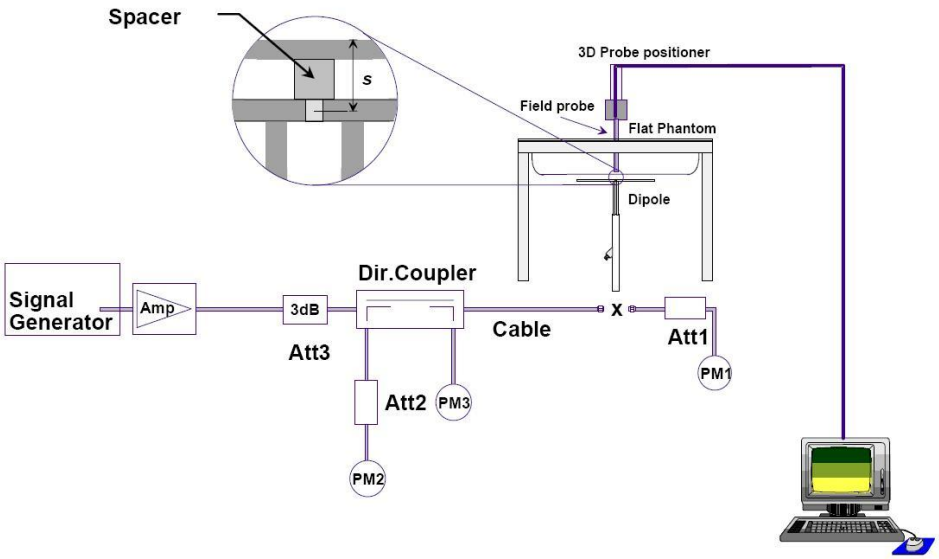
Picture 7-2 Liquid depth in the Flat Phantom

8 System verification

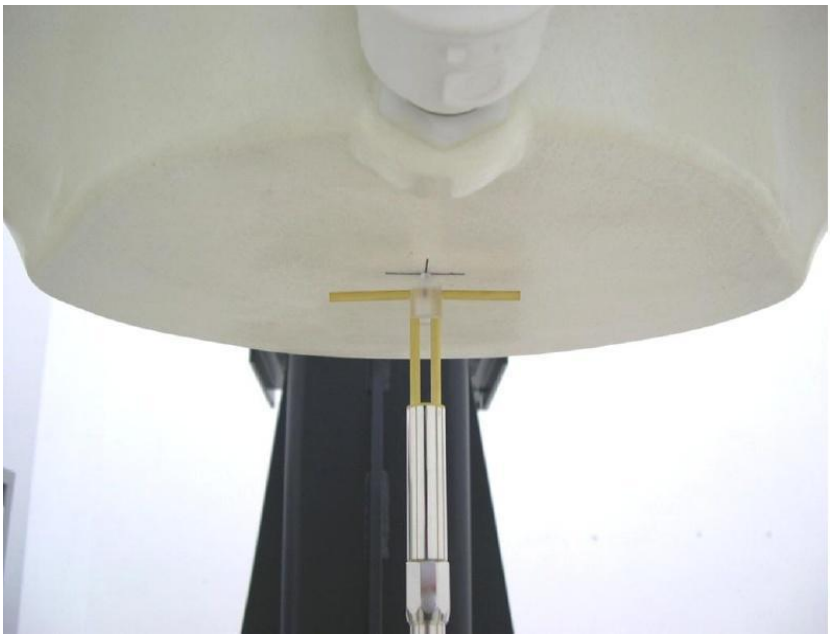
8.1 System Setup

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.

Table 8.1: System Verification of Head

Measurement Date (yyyy-mm-dd)	Frequency	Target value (W/kg)		Measured value (W/kg)		Deviation	
		10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average
2022-9-8	750MHz	5.64	8.63	5.76	8.48	2.13%	-1.74%
2022-9-9	835MHz	6.34	9.73	6.28	9.48	-0.95%	-2.57%
2022-9-10	1750MHz	19.3	36.8	19.1	36.2	-0.93%	-1.52%
2022-9-11	1900MHz	20.7	39.7	20.5	39.6	-1.06%	-0.15%
2022-9-12	2450MHz	24.9	52.7	24.9	52.8	-0.08%	0.19%
2022-9-13	2450MHz	24.9	52.7	24.3	52.4	-2.33%	-0.57%
2022-9-14	2600MHz	25.2	55.8	25.6	57.6	1.43%	3.23%
2022-9-15	2600MHz	25.2	55.8	25.4	57.2	0.79%	2.51%
2022-9-16	5250MHz	22.3	78.1	22.6	79.0	1.35%	1.15%
2022-9-17	5600MHz	23.7	83.2	22.9	80.1	-3.38%	-3.73%
2022-9-18	5750MHz	22.8	80.4	22.1	78.0	-3.07%	-2.99%

9 General Measurement Procedure

9.1 *Power Reference Measurement*

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

9.2 *Area Scan*

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.
Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

9.3 *Zoom Scan*

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1 g and 10 g and displays these values next to the job’s label.

Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

9.4 *Power drift measurement*

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as 9.1.

10 Measurement Procedure for different technologies

10.1 GSM/GPRS Measurement Procedures for SAR

GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, 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, SAR measurement is not required for the secondary mode.

10.2 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.7 Release 7 HSPA+ Data Devices

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed}1: 30/15 β_{ed}2: 30/15	β_{ed}3: 24/15 β_{ed}4: 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c.
Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).
Note 3: DPDCH is not configured, therefore the β_c is set to 1 and β_d = 0 by default.
Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.
Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

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.

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK

Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.

10.3 LTE Measurement Procedures for SAR

SAR tests for LTE are performed with a base station simulator, Rohde & Rchwarz CMW500 or . Anritsu MT8821C Closed loop power control was used so the UE transmits with maximum output power during SAR testing.

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 v02r05 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 v02r05. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211.

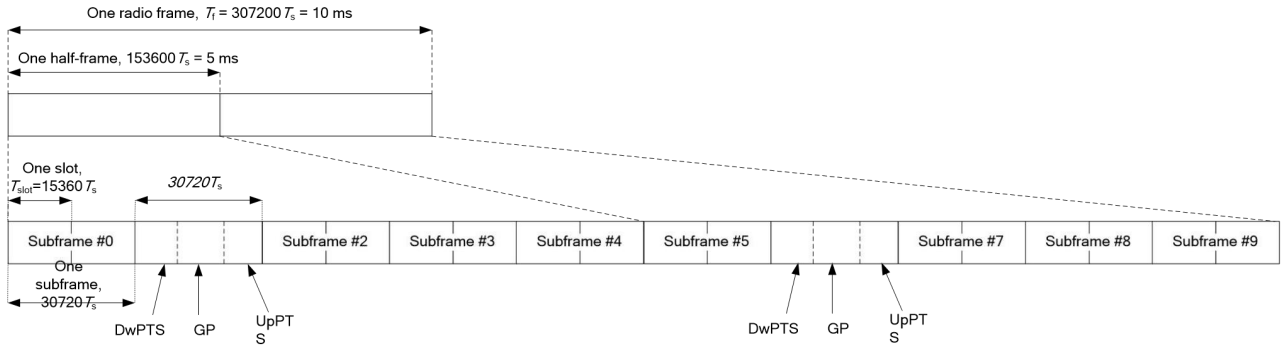


Figure 10.2: Frame structure type 2 (for 5 ms switch-point periodicity)

Table 10.1: 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 10.2: 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

According to the KDB 447498 D01, SAR should be evaluated at more than 3 frequencies for devices supporting transmit bands wider than 100MHz. Oct.2014 FCC-TCB conference notes (Dec. 2014 rev.) specifies the 5 test channels to use for 3GPP band 38/41 SAR evaluation.

10.4 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.

11 Conducted Output Power

This device has several different power modes for head, body-worn, hotspot SAR compliance; power selection is determined by the device's positioning and usage scenarios. The details of test scenarios categorization in the table below

Antenna	Head receiver on	Body worn receiver off	Hotspot
Main antenna	Power Level A1	Power Level B1	Power Level C1

11.1 GSM Measurement result

During the process of testing, the EUT was controlled via Anritsu Digital Radio Communication tester (MT8820C&MT8821C) to ensure the maximum power transmission and proper modulation. This result contains conducted output power for the EUT. In all cases, the measured peak output power should be greater and within 5% than EMI measurement.

Table 11.1-1: The conducted power measurement results-GSM850 PowerLevelA1/B1/C1

GSM 850 Speech(GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.39	32.33	32.20	33.30	/	/	/	/
GSM 850 GPRS(GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.22	32.19	32.13	33.30	-9.03	23.19	23.16	23.10
2 Txslots	28.96	28.89	28.83	30.50	-6.02	22.94	22.87	22.81
3 Txslots	28.03	27.98	27.91	28.50	-4.26	23.77	23.72	23.65
4 Txslots	**26.97**	**26.93**	**26.81**	**27.50**	**-3.01**	**23.96**	**23.92**	**23.80**
GSM 850 EGPRS(GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.25	32.24	32.15	33.30	-9.03	23.22	23.21	23.12
2 Txslots	28.98	28.95	28.86	30.50	-6.02	22.96	22.93	22.84
3 Txslots	28.05	28.03	27.94	28.50	-4.26	23.79	23.77	23.68
4 Txslots	**27.01**	**26.97**	**26.84**	**27.50**	**-3.01**	**24.00**	**23.96**	**23.83**
GSM 850 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	26.14	25.81	25.80	26.50	-9.03	17.11	16.78	16.77
2 Txslots	24.05	23.72	23.70	25.50	-6.02	18.03	17.70	17.68
3 Txslots	22.99	22.52	22.52	24.50	-4.26	18.73	18.26	18.26
4 Txslots	21.32	21.00	21.01	23.00	-3.01	18.31	17.99	18.00

NOTES:

1) Division Factors

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

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

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

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

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

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

Table 11.1-2: The conducted power measurement results-GSM1900 Power Level A1

GSM 1900 Speech(GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.11	29.24	29.44	30.30	/	/	/	/
GSM 1900 GPRS(GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.48	29.58	29.71	30.30	-9.03	20.45	20.55	20.68
2 Txslots	28.38	28.94	29.03	29.50	-6.02	22.36	22.92	23.01
3 Txslots	**27.25**	**27.33**	**27.38**	**28.00**	**-4.26**	**22.99**	**23.07**	**23.12**
4 Txslots	25.80	25.84	25.93	26.50	-3.01	22.79	22.83	22.92
GSM 1900 EGPRS(GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.4	29.62	29.74	30.30	-9.03	20.37	20.59	20.71
2 Txslots	28.78	28.95	29.07	29.50	-6.02	22.76	22.93	23.05
3 Txslots	**27.21**	**27.34**	**27.41**	**28.00**	**-4.26**	**22.95**	**23.08**	**23.15**
4 Txslots	25.79	25.86	25.95	26.50	-3.01	22.78	22.85	22.94
GSM 1900 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	25.78	25.68	25.93	26.50	-9.03	16.75	16.65	16.90
2 Txslots	24.42	24.35	24.53	25.00	-6.02	18.40	18.33	18.51
3 Txslots	23.27	23.06	23.36	24.00	-4.26	19.01	18.80	19.10
4 Txslots	21.78	21.55	21.85	23.00	-3.01	18.77	18.54	18.84

NOTES:

1) Division Factors

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

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

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

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

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

According to the conducted power as above, the body measurements are performed with 3Txslots for GSM1900.

Table 11.1-3: The conducted power measurement results-GSM1900 Power Level B1

GSM 1900 Speech(GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	27.65	27.79	27.91	28.30	/	/	/	/
GSM 1900 GPRS(GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	27.62	27.73	27.87	28.30	-9.03	18.59	18.70	18.84
2 Txslots	25.71	25.77	25.90	26.50	-6.02	19.69	19.75	19.88
3 Txslots	**23.96**	**24.02**	**24.12**	**24.50**	**-4.26**	**19.70**	**19.76**	**19.89**
4 Txslots	22.60	22.68	22.78	23.00	-3.01	19.59	19.67	19.77
GSM 1900 EGPRS(GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	27.6	27.75	27.85	28.30	-9.03	18.57	18.72	18.82
2 Txslots	25.68	25.80	25.88	26.50	-6.02	19.66	19.78	19.86
3 Txslots	**23.94**	**24.05**	**24.13**	**24.50**	**-4.26**	**19.68**	**19.79**	**19.87**
4 Txslots	22.59	22.68	22.76	23.00	-3.01	19.58	19.67	19.75
GSM 1900 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	23.07	23.01	23.27	23.50	-9.03	14.04	13.98	14.24
2 Txslots	21.16	20.96	21.31	21.50	-6.02	15.14	14.94	15.29
3 Txslots	19.45	19.28	19.54	20.00	-4.26	15.19	15.02	15.28
4 Txslots	18.17	17.95	18.19	18.50	-3.01	15.16	14.94	15.18

NOTES:

1) Division Factors

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

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

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

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

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

According to the conducted power as above, the body measurements are performed with 3Txslots for GSM1900.

Table 11.1-4: The conducted power measurement results-GSM1900 Power Level C1

GSM 1900 Speech(GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	26.67	26.78	26.91	27.30	/	/	/	/
GSM 1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		

GPRS(GMSK)	810	661	512			810	661	512
1 Txslot	26.65	26.76	26.86	27.30	-9.03	17.62	17.73	17.83
2 Txslots	24.67	24.75	24.84	25.50	-6.02	18.65	18.73	18.82
3 Txslots	**22.93**	**23.03**	**23.10**	**23.50**	**-4.26**	**18.67**	**18.77**	**18.84**
4 Txslots	21.67	21.77	21.84	22.00	-3.01	18.66	18.76	18.83
GSM 1900 EGPRS(GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	26.64	26.75	26.90	27.30	-9.03	17.61	17.72	17.87
2 Txslots	24.66	24.73	24.88	25.50	-6.02	18.64	18.71	18.86
3 Txslots	**22.93**	**23.01**	**23.14**	**23.50**	**-4.26**	**18.67**	**18.75**	**18.88**
4 Txslots	21.69	21.75	21.88	22.00	-3.01	18.68	18.74	18.87
GSM 1900 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	810	661	512			810	661	512
1 Txslot	22.23	22.18	22.38	22.50	-9.03	13.20	13.15	13.35
2 Txslots	20.19	20.15	20.30	20.50	-6.02	14.17	14.13	14.28
3 Txslots	18.43	18.30	18.51	19.00	-4.26	14.17	14.04	14.25
4 Txslots	17.14	17.08	17.29	17.50	-3.01	14.13	14.07	14.28

NOTES:

1) Division Factors

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

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

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

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

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

According to the conducted power as above, the body measurements are performed with 3Txslots for GSM1900.

11.2 WCDMA Measurement result

Table 11.2-1: The conducted Power-WCDMA B2 Power Level A1

Item	band	FDDII result			
	ARFCN	9538 (1907.6MHz)	9400 (1880MHz)	9262 (1852.4MHz)	Tune up
WCDMA	\	24.26	24.33	24.18	24.50
HSDPA	1	23.34	23.34	23.21	24.00
	2	23.25	23.24	23.17	24.00
	3	22.74	22.72	22.66	23.50
	4	22.71	22.69	22.62	23.50
HSUPA	1	21.38	21.41	21.27	22.50
	2	21.33	21.34	21.25	21.50
	3	22.31	22.34	22.20	23.00
	4	20.86	20.89	20.78	21.50

	5	22.11	22.23	22.19	23.50
HSPA+		23.10	23.01	22.98	23.50

Table 11.2-2: The conducted Power-WCDMA B2 Power Level B1

Item	**band**	**FDDII result**			
	ARFCN	**9538 (1907.6MHz)**	**9400 (1880MHz)**	**9262 (1852.4MHz)**	**Tune up**
WCDMA	****	21.36	21.34	21.20	21.50
HSDPA	**1**	21.42	21.45	21.24	21.50
	2	21.31	21.32	21.20	21.50
	3	20.80	20.78	20.72	21.00
	4	20.78	20.73	20.70	21.00
HSUPA	**1**	19.93	19.40	19.18	20.50
	2	19.37	19.32	19.18	20.50
	3	20.42	20.36	20.17	21.00
	4	18.94	18.88	18.71	19.50
	5	20.23	20.27	20.15	21.00
HSPA+		20.12	19.98	19.81	20.50

Table 11.2-3: The conducted Power-WCDMA B2 Power Level C1

Item	**band**	**FDDII result**			
	ARFCN	**9538 (1907.6MHz)**	**9400 (1880MHz)**	**9262 (1852.4MHz)**	**Tune up**
WCDMA	****	20.20	20.25	20.16	21.00
HSDPA	**1**	20.31	20.36	20.23	21.00
	2	20.16	20.20	20.17	20.50
	3	19.64	19.72	19.68	20.00
	4	19.63	19.69	19.65	20.00
HSUPA	**1**	18.81	18.31	18.18	19.50
	2	18.26	18.29	18.17	19.50
	3	19.27	19.31	19.17	20.00
	4	17.83	17.84	17.70	18.50
	5	19.10	19.21	19.15	20.00
HSPA+		19.08	19.15	18.97	19.50

Table 11.2-4: The conducted Power-WCDMA B4 Power Level A1

Item	**band**	**FDDIV result**			
	ARFCN	**1513 (1752.6MHz)**	**1412(1732.4MHz)**	**1312 (1712.4MHz)**	**Tune up**
WCDMA	****	24.10	24.11	24.15	24.50
HSDPA	**1**	23.10	23.12	23.09	24.00
	2	23.01	23.04	23.05	24.00

	3	22.47	22.56	22.56	23.00
	4	22.49	22.53	22.53	23.00
HSUPA	1	21.65	21.65	21.65	22.00
	2	21.12	21.14	21.11	21.50
	3	22.16	22.14	22.13	22.50
	4	20.63	20.62	20.64	21.50
	5	22.02	22.05	22.08	23.00
HSPA+		23.08	22.99	23.10	23.50

Table 11.2-5: The conducted Power-WCDMA B4 Power Level B1

Item	band	FDDIV result			
	ARFCN	1513 (1752.6MHz)	1412(1732.4MHz)	1312 (1712.4MHz)	Tune up
WCDMA	\	21.00	21.14	21.28	21.50
HSDPA	1	21.05	21.17	21.24	21.50
	2	21.06	21.07	21.17	21.50
	3	20.58	20.58	20.73	21.00
	4	20.54	20.56	20.67	21.00
HSUPA	1	19.05	19.12	19.21	20.00
	2	19.04	19.12	19.20	20.00
	3	20.00	20.09	20.19	20.50
	4	18.52	18.61	18.72	19.50
	5	19.93	20.03	20.13	21.00
HSPA+		19.75	19.98	20.10	20.50

Table 11.2-6: The conducted Power-WCDMA B4 Power Level C1

Item	band	FDDIV result			
	ARFCN	1513 (1752.6MHz)	1412(1732.4MHz)	1312 (1712.4MHz)	Tune up
WCDMA	\	20.08	20.06	20.12	20.50
HSDPA	1	20.12	20.13	20.14	20.50
	2	20.10	20.07	20.07	20.50
	3	19.59	19.57	19.58	20.00
	4	19.58	19.52	19.57	20.00
HSUPA	1	18.11	18.07	18.10	19.00
	2	18.09	18.06	18.09	19.00
	3	19.12	19.11	19.10	19.50
	4	17.60	17.63	17.60	18.50
	5	19.01	19.05	19.05	20.00
HSPA+		18.95	19.00	19.10	19.50

Table 11.2-7: The conducted Power-WCDMA B5 Power Level A1

Item	band	FDDⅤ result			
	ARFCN	4233/(846.6MHz)	4183(836.6MHz)	4132 (826.4MHz)	Tune up
WCDMA	\	21.85	21.84	21.89	22.50
HSDPA	1	21.88	21.86	21.90	22.50
	2	21.85	21.79	21.88	22.50
	3	21.31	21.31	21.36	21.50
	4	21.33	21.28	21.36	21.50
HSUPA	1	20.31	19.80	19.81	21.00
	2	19.78	19.75	19.82	20.50
	3	20.80	20.75	20.83	21.50
	4	19.33	19.32	19.33	20.50
	5	20.68	20.69	20.73	21.50
HSPA+		20.68	20.72	20.80	21.50

Table 11.2-8: The conducted Power-WCDMA B5 Power Level B1/C1

Item	band	FDDⅤ result			
	ARFCN	4233/(846.6MHz)	4183(836.6MHz)	4132 (826.4MHz)	Tune up
WCDMA	\	23.77	23.75	23.81	24.50
HSDPA	1	22.78	22.77	22.81	23.50
	2	22.74	22.74	22.75	23.50
	3	22.28	22.29	22.35	23.00
	4	22.29	22.29	22.31	23.00
HSUPA	1	21.26	20.76	20.77	21.50
	2	20.73	20.71	20.79	21.50
	3	21.76	21.74	21.76	22.50
	4	20.25	20.24	20.30	21.00
	5	21.66	21.67	21.69	22.00
HSPA+		22.65	22.67	22.78	23.50

11.3 LTE Measurement result

The maximum output power(Tune-up Limit)

Band	Tune up		
	Power Level A1	Power Level B1	Power Level C1
LTE Band 25	25	22	21
LTE Band 66	25	22	21
LTE Band 26	23	25	25
LTE Band 12	23	25	25
LTE Band 41(PC3)	24	20	19

LTE Band 41(PC2)	26.5	23	22
LTE Band 71	23	24.5	24.5

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification. UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Maximum Power Reduction (MPR) for LTE-Normal Power

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	2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	3

Maximum Power Reduction (MPR) for LTE -Low power

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	0
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	0

LTE B12 Power Level A1

Band 12-Power level A1					
Bandwidth (MHz)	RB allocation	Frequency	Actual output power (dBm)		
	RB offset	(MHz)	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	715.3 (5173)	21.93	22.06	22.09
		707.5 (5095)	22.12	22.30	22.27
		699.7 (5017)	22.08	22.21	22.19
	1RB-Middle (3)	715.3 (5173)	22.10	22.20	22.19
		707.5 (5095)	22.22	22.41	22.43
		699.7 (5017)	22.24	22.40	22.35
	1RB-Low (0)	715.3 (5173)	21.98	22.14	22.15
		707.5 (5095)	22.10	22.24	22.28
		699.7 (5017)	22.06	22.25	22.23
	3RB-High (3)	715.3 (5173)	22.06	22.05	22.00
		707.5 (5095)	22.21	22.24	22.19
		699.7 (5017)	22.21	22.13	22.12
	3RB-Middle (1)	715.3 (5173)	22.10	22.10	22.01
		707.5 (5095)	22.26	22.30	22.24
		699.7 (5017)	22.24	22.25	22.16
	3RB-Low (0)	715.3 (5173)	22.05	22.09	22.01
		707.5 (5095)	22.21	22.26	22.18
		699.7 (5017)	22.18	22.16	22.13
	6RB (0)	715.3 (5173)	22.04	22.02	21.01
		707.5 (5095)	22.22	22.22	21.17
		699.7 (5017)	22.19	22.20	21.13
3MHz	1RB-High (14)	714.5 (5165)	21.97	22.24	22.13
		707.5 (5095)	22.12	22.37	22.30
		700.5 (5025)	22.09	22.36	22.24
	1RB-Middle (7)	714.5 (5165)	22.18	22.43	22.33
		707.5 (5095)	22.25	22.50	22.46
		700.5 (5025)	22.25	22.39	22.36
	1RB-Low (0)	714.5 (5165)	22.08	22.31	22.20
		707.5 (5095)	22.18	22.41	22.31
		700.5 (5025)	22.08	22.37	22.25
	8RB-High (7)	714.5 (5165)	21.98	22.02	20.94
		707.5 (5095)	22.16	22.15	21.08
		700.5 (5025)	22.08	22.12	21.07
	8RB-Middle (4)	714.5 (5165)	22.08	22.09	20.98
		707.5 (5095)	22.19	22.19	21.13
		700.5 (5025)	22.13	22.18	21.09

	8RB-Low (0)	714.5 (5165)	22.04	22.07	21.00
		707.5 (5095)	22.17	22.17	21.09
		700.5 (5025)	22.10	22.13	21.04
	15RB (0)	714.5 (5165)	22.03	22.01	20.96
		707.5 (5095)	22.14	22.13	21.10
		700.5 (5025)	22.12	22.06	21.03
5MHz	1RB-High (24)	713.5 (5155)	21.90	22.18	22.03
		707.5 (5095)	22.07	22.32	22.22
		701.5 (5035)	22.04	22.31	22.18
	1RB-Middle (12)	713.5 (5155)	22.20	22.50	22.30
		707.5 (5095)	22.32	22.62	22.50
		701.5 (5035)	22.24	22.64	22.41
	1RB-Low (0)	713.5 (5155)	22.01	22.33	22.14
		707.5 (5095)	22.04	22.31	22.17
		701.5 (5035)	22.04	22.27	22.14
	12RB-High (13)	713.5 (5155)	22.01	22.06	20.96
		707.5 (5095)	22.19	22.21	21.13
		701.5 (5035)	22.09	22.13	21.00
	12RB-Middle (6)	713.5 (5155)	22.09	22.13	21.03
		707.5 (5095)	22.23	22.21	21.16
		701.5 (5035)	22.17	22.16	21.13
	12RB-Low (0)	713.5 (5155)	22.10	22.10	21.03
		707.5 (5095)	22.20	22.20	21.18
		701.5 (5035)	22.10	22.12	21.03
	25RB (0)	713.5 (5155)	22.05	22.04	20.99
		707.5 (5095)	22.18	22.18	21.14
		701.5 (5035)	22.10	22.08	21.06
10MHz	1RB-High (49)	711 (5130)	21.93	22.10	22.09
		707.5 (5095)	22.08	22.24	22.24
		704 (5060)	22.09	22.25	22.23
	1RB-Middle (24)	711 (5130)	22.20	22.38	22.37
		707.5 (5095)	22.24	22.40	22.39
		704 (5060)	22.22	22.41	22.35
	1RB-Low (0)	711 (5130)	22.11	22.30	22.25
		707.5 (5095)	22.11	22.22	22.21
		704 (5060)	22.04	22.22	22.22
	25RB-High (25)	711 (5130)	22.08	22.11	21.02
		707.5 (5095)	22.24	22.23	21.18
		704 (5060)	22.19	22.15	21.14
	25RB-Middle (12)	711 (5130)	22.15	22.16	21.12
		707.5 (5095)	22.22	22.22	21.16
		704 (5060)	22.15	22.16	21.14

	25RB-Low (0)	711 (5130)	22.23	22.21	21.15
		707.5 (5095)	22.18	22.20	21.18
		704 (5060)	22.18	22.14	21.12
	50RB (0)	711 (5130)	22.15	22.14	21.09
		707.5 (5095)	22.23	22.23	21.17
		704 (5060)	22.21	22.18	21.15

LTE B12 Power Level B1/C1

Band 12-Power level B1					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	Actual output power (dBm)		
	RB offset		QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	715.3 (5173)	23.92	23.02	22.15
		707.5 (5095)	24.06	23.23	22.38
		699.7 (5017)	24.01	23.16	22.31
	1RB-Middle (3)	715.3 (5173)	24.02	23.19	22.36
		707.5 (5095)	24.19	23.31	22.51
		699.7 (5017)	24.19	23.24	22.44
	1RB-Low (0)	715.3 (5173)	23.93	23.11	22.23
		707.5 (5095)	24.08	23.23	22.39
		699.7 (5017)	24.05	23.16	22.33
	3RB-High (3)	715.3 (5173)	24.02	22.97	22.07
		707.5 (5095)	24.20	23.18	22.26
		699.7 (5017)	24.16	23.13	22.23
	3RB-Middle (1)	715.3 (5173)	24.08	23.07	22.13
		707.5 (5095)	24.24	23.20	22.29
		699.7 (5017)	24.17	23.16	22.29
	3RB-Low (0)	715.3 (5173)	24.03	22.99	22.09
		707.5 (5095)	24.18	23.22	22.27
		699.7 (5017)	24.13	23.13	22.17
	6RB (0)	715.3 (5173)	23.03	22.11	21.11
		707.5 (5095)	23.21	22.25	21.28
		699.7 (5017)	23.14	22.20	21.25
3MHz	1RB-High (14)	714.5 (5165)	23.92	23.16	22.21
		707.5 (5095)	24.10	23.33	22.39
		700.5 (5025)	24.06	23.29	22.33
	1RB-Middle (7)	714.5 (5165)	24.15	23.19	22.37
		707.5 (5095)	24.25	23.47	22.52
		700.5 (5025)	24.19	23.48	22.46
	1RB-Low (0)	714.5 (5165)	24.02	23.14	22.30
		707.5 (5095)	24.14	23.25	22.39

		700.5 (5025)	24.03	23.28	22.32
	8RB-High (7)	714.5 (5165)	22.94	22.04	21.05
		707.5 (5095)	23.14	22.19	21.18
		700.5 (5025)	23.07	22.12	21.15
	8RB-Middle (4)	714.5 (5165)	23.03	22.05	21.10
		707.5 (5095)	23.16	22.24	21.22
		700.5 (5025)	23.10	22.17	21.16
	8RB-Low (0)	714.5 (5165)	22.99	22.09	21.05
		707.5 (5095)	23.12	22.23	21.20
		700.5 (5025)	23.08	22.14	21.13
	15RB (0)	714.5 (5165)	22.98	22.02	21.08
		707.5 (5095)	23.11	22.13	21.20
		700.5 (5025)	23.06	22.09	21.12
5MHz	1RB-High (24)	713.5 (5155)	23.81	23.04	22.04
		707.5 (5095)	24.00	23.26	22.28
		701.5 (5035)	23.99	23.23	22.26
	1RB-Middle (12)	713.5 (5155)	24.18	23.40	22.46
		707.5 (5095)	24.30	23.60	22.53
		701.5 (5035)	24.21	23.44	22.56
	1RB-Low (0)	713.5 (5155)	23.96	23.20	22.25
		707.5 (5095)	24.00	23.24	22.29
		701.5 (5035)	23.95	23.21	22.23
	12RB-High (13)	713.5 (5155)	22.97	22.07	21.04
		707.5 (5095)	23.17	22.25	21.25
		701.5 (5035)	23.07	22.13	21.16
	12RB-Middle (6)	713.5 (5155)	23.05	22.12	21.16
		707.5 (5095)	23.18	22.25	21.28
		701.5 (5035)	23.12	22.20	21.21
	12RB-Low (0)	713.5 (5155)	23.07	22.12	21.14
		707.5 (5095)	23.16	22.23	21.22
		701.5 (5035)	23.05	22.11	21.14
	25RB (0)	713.5 (5155)	23.00	22.05	21.09
		707.5 (5095)	23.14	22.17	21.21
		701.5 (5035)	23.06	22.10	21.15
10MHz	1RB-High (49)	711 (5130)	23.88	23.04	22.18
		707.5 (5095)	24.03	23.17	22.32
		704 (5060)	24.09	23.20	22.34
	1RB-Middle (24)	711 (5130)	24.19	23.29	22.42
		707.5 (5095)	24.22	23.34	22.48
		704 (5060)	24.19	23.33	22.42
	1RB-Low (0)	711 (5130)	24.06	23.21	22.38
		707.5 (5095)	24.05	23.22	22.36

		704 (5060)	24.01	23.12	22.29
	25RB-High (25)	711 (5130)	23.04	22.10	21.11
		707.5 (5095)	23.22	22.25	21.28
		704 (5060)	23.14	22.23	21.25
	25RB-Middle (12)	711 (5130)	23.15	22.20	21.20
		707.5 (5095)	23.20	22.24	21.28
		704 (5060)	23.15	22.18	21.23
	25RB-Low (0)	711 (5130)	23.18	22.21	21.24
		707.5 (5095)	23.16	22.22	21.25
		704 (5060)	23.16	22.17	21.21
	50RB (0)	711 (5130)	23.13	22.15	21.20
		707.5 (5095)	23.21	22.22	21.27
		704 (5060)	23.17	22.19	21.24

TE B25 Power Level A1

Band 25-Power level A1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm) QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	23.62	22.72	21.80
		1882.5 (26365)	23.69	22.91	21.91
		1850.7 (26047)	23.64	22.87	21.87
	1RB-Middle (3)	1914.3 (26683)	23.76	22.85	21.97
		1882.5 (26365)	23.84	23.01	22.04
		1850.7 (26047)	23.77	23.01	22.04
	1RB-Low (0)	1914.3 (26683)	23.65	22.82	21.89
		1882.5 (26365)	23.71	22.88	21.95
		1850.7 (26047)	23.66	22.91	21.94
	3RB-High (3)	1914.3 (26683)	23.73	22.73	21.76
		1882.5 (26365)	23.79	22.85	21.84
		1850.7 (26047)	23.75	22.80	21.77
	3RB-Middle (1)	1914.3 (26683)	23.83	22.76	21.80
		1882.5 (26365)	23.87	22.93	21.85
		1850.7 (26047)	23.84	22.89	21.88
	3RB-Low (0)	1914.3 (26683)	23.76	22.74	21.78
		1882.5 (26365)	23.81	22.83	21.83
		1850.7 (26047)	23.77	22.84	21.87
	6RB (0)	1914.3 (26683)	22.77	21.79	20.77
		1882.5 (26365)	22.84	21.83	20.87
		1850.7 (26047)	22.75	21.80	20.79
3MHz	1RB-High (14)	1913.5 (26675)	23.68	22.89	21.90
		1882.5 (26365)	23.78	23.05	21.99

		1851.5 (26055)	23.76	23.01	21.96
	1RB-Middle (7)	1913.5 (26675)	23.83	23.07	22.11
		1882.5 (26365)	23.96	23.21	22.22
		1851.5 (26055)	23.97	23.08	22.14
	1RB-Low (0)	1913.5 (26675)	23.76	23.02	22.03
		1882.5 (26365)	23.76	23.04	22.02
		1851.5 (26055)	23.79	23.02	22.04
	8RB-High (7)	1913.5 (26675)	22.73	21.76	20.76
		1882.5 (26365)	22.82	21.86	20.79
		1851.5 (26055)	22.79	21.81	20.79
	8RB-Middle (4)	1913.5 (26675)	22.81	21.82	20.81
		1882.5 (26365)	22.87	21.86	20.85
		1851.5 (26055)	22.83	21.85	20.85
	8RB-Low (0)	1913.5 (26675)	22.80	21.84	20.79
		1882.5 (26365)	22.81	21.87	20.82
		1851.5 (26055)	22.81	21.81	20.78
	15RB (0)	1913.5 (26675)	22.80	21.77	20.78
		1882.5 (26365)	22.81	21.75	20.82
		1851.5 (26055)	22.81	21.76	20.79
5MHz	1RB-High (24)	1912.5 (26665)	23.60	22.89	21.82
		1882.5 (26365)	23.69	22.97	21.87
		1852.5 (26065)	23.60	22.94	21.84
	1RB-Middle (12)	1912.5 (26665)	23.90	23.23	22.14
		1882.5 (26365)	24.05	23.35	22.20
		1852.5 (26065)	23.91	23.24	22.20
	1RB-Low (0)	1912.5 (26665)	23.69	22.90	21.92
		1882.5 (26365)	23.67	22.96	21.91
		1852.5 (26065)	23.68	22.96	21.90
	12RB-High (13)	1912.5 (26665)	22.74	21.75	20.78
		1882.5 (26365)	22.80	21.81	20.83
		1852.5 (26065)	22.77	21.80	20.77
	12RB-Middle (6)	1912.5 (26665)	22.86	21.91	20.89
		1882.5 (26365)	22.86	21.89	20.88
		1852.5 (26065)	22.82	21.86	20.82
	12RB-Low (0)	1912.5 (26665)	22.82	21.85	20.82
		1882.5 (26365)	22.83	21.86	20.86
		1852.5 (26065)	22.78	21.76	20.76
	25RB (0)	1912.5 (26665)	22.80	21.80	20.82
		1882.5 (26365)	22.83	21.83	20.83
		1852.5 (26065)	22.79	21.79	20.79
10MHz	1RB-High (49)	1910 (26640)	23.71	22.82	21.90
		1882.5 (26365)	23.77	22.91	22.00

		1855 (26090)	23.72	22.85	22.00
	1RB-Middle (24)	1910 (26640)	23.85	23.03	22.13
		1882.5 (26365)	23.83	23.04	22.14
		1855 (26090)	23.75	22.97	22.06
	1RB-Low (0)	1910 (26640)	23.83	22.92	22.04
		1882.5 (26365)	23.81	22.96	22.02
		1855 (26090)	23.79	22.95	22.00
	25RB-High (25)	1910 (26640)	22.87	21.85	20.86
		1882.5 (26365)	22.83	21.84	20.86
		1855 (26090)	22.79	21.79	20.82
	25RB-Middle (12)	1910 (26640)	22.93	21.91	20.93
		1882.5 (26365)	22.86	21.85	20.86
		1855 (26090)	22.78	21.77	20.79
	25RB-Low (0)	1910 (26640)	23.02	22.03	21.03
		1882.5 (26365)	22.90	21.91	20.92
		1855 (26090)	22.78	21.78	20.79
	50RB (0)	1910 (26640)	22.99	21.95	20.99
		1882.5 (26365)	22.90	21.87	20.91
		1855 (26090)	22.80	21.76	20.81
15MHz	1RB-High (74)	1907.5 (26615)	23.65	22.92	21.89
		1882.5 (26365)	23.76	23.00	22.00
		1857.5 (26115)	23.74	22.99	21.96
	1RB-Middle (37)	1907.5 (26615)	24.00	23.18	22.20
		1882.5 (26365)	23.84	23.15	22.21
		1857.5 (26115)	23.90	23.08	22.16
	1RB-Low (0)	1907.5 (26615)	23.83	23.10	22.09
		1882.5 (26365)	23.72	22.98	21.95
		1857.5 (26115)	23.72	22.99	21.97
	36RB-High (38)	1907.5 (26615)	22.86	21.81	20.83
		1882.5 (26365)	22.86	21.81	20.85
		1857.5 (26115)	22.83	21.78	20.82
	36RB-Middle (19)	1907.5 (26615)	22.94	21.89	20.94
		1882.5 (26365)	22.88	21.81	20.83
		1857.5 (26115)	22.78	21.76	20.78
	36RB-Low (0)	1907.5 (26615)	23.08	22.03	21.04
		1882.5 (26365)	22.88	21.85	20.90
		1857.5 (26115)	22.80	21.74	20.76
	75RB (0)	1907.5 (26615)	22.97	21.96	20.97
		1882.5 (26365)	22.88	21.87	20.86
		1857.5 (26115)	22.81	21.77	20.79
20MHz	1RB-High (99)	1905 (26590)	23.61	22.85	21.92
		1882.5 (26365)	23.73	23.06	21.96

		1860 (26140)	23.68	22.95	21.93
	1RB-Middle (50)	1905 (26590)	23.90	23.20	22.19
		1882.5 (26365)	23.87	23.17	22.09
		1860 (26140)	23.87	23.07	22.11
	1RB-Low (0)	1905 (26590)	23.77	23.09	22.04
		1882.5 (26365)	23.65	22.92	21.89
		1860 (26140)	23.71	23.02	21.90
	50RB-High (50)	1905 (26590)	22.79	21.77	20.80
		1882.5 (26365)	22.82	21.81	20.85
		1860 (26140)	22.85	21.83	20.86
	50RB-Middle (25)	1905 (26590)	22.97	21.96	20.99
		1882.5 (26365)	22.88	21.87	20.89
		1860 (26140)	22.83	21.82	20.84
	50RB-Low (0)	1905 (26590)	23.05	22.05	21.05
		1882.5 (26365)	22.95	21.90	20.95
		1860 (26140)	22.75	21.71	20.72
	100RB (0)	1905 (26590)	22.89	21.91	20.92
		1882.5 (26365)	22.86	21.86	20.88
		1860 (26140)	22.79	21.77	20.81

LTE B25 Power Level B1

Band 25-Power level B1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	20.57	20.77	20.77
		1882.5 (26365)	20.61	20.85	20.88
		1850.7 (26047)	20.57	20.78	20.83
	1RB-Middle (3)	1914.3 (26683)	20.69	20.90	20.92
		1882.5 (26365)	20.75	20.94	21.02
		1850.7 (26047)	20.75	20.98	20.95
	1RB-Low (0)	1914.3 (26683)	20.56	20.81	20.78
		1882.5 (26365)	20.63	20.87	20.89
		1850.7 (26047)	20.61	20.77	20.91
	3RB-High (3)	1914.3 (26683)	20.66	20.71	20.73
		1882.5 (26365)	20.73	20.78	20.79
		1850.7 (26047)	20.70	20.81	20.73
	3RB-Middle (1)	1914.3 (26683)	20.73	20.79	20.77
		1882.5 (26365)	20.78	20.84	20.81
		1850.7 (26047)	20.75	20.90	20.83
	3RB-Low (0)	1914.3 (26683)	20.69	20.74	20.74
		1882.5 (26365)	20.73	20.75	20.77

		1850.7 (26047)	20.71	20.85	20.78
	6RB (0)	1914.3 (26683)	20.72	20.74	20.76
		1882.5 (26365)	20.71	20.77	20.79
		1850.7 (26047)	20.69	20.77	20.77
3MHz	1RB-High (14)	1913.5 (26675)	20.62	20.99	20.88
		1882.5 (26365)	20.70	21.00	20.90
		1851.5 (26055)	20.67	21.02	20.93
	1RB-Middle (7)	1913.5 (26675)	20.90	21.01	21.05
		1882.5 (26365)	20.86	21.18	21.15
		1851.5 (26055)	20.89	21.13	21.17
	1RB-Low (0)	1913.5 (26675)	20.70	21.01	20.90
		1882.5 (26365)	20.71	20.92	20.92
		1851.5 (26055)	20.69	21.08	20.96
	8RB-High (7)	1913.5 (26675)	20.69	20.73	20.67
		1882.5 (26365)	20.71	20.78	20.74
		1851.5 (26055)	20.73	20.80	20.74
	8RB-Middle (4)	1913.5 (26675)	20.74	20.78	20.70
		1882.5 (26365)	20.77	20.79	20.79
		1851.5 (26055)	20.77	20.83	20.77
	8RB-Low (0)	1913.5 (26675)	20.70	20.79	20.71
		1882.5 (26365)	20.73	20.78	20.75
		1851.5 (26055)	20.71	20.79	20.73
	15RB (0)	1913.5 (26675)	20.71	20.69	20.70
		1882.5 (26365)	20.72	20.71	20.75
		1851.5 (26055)	20.71	20.72	20.79
5MHz	1RB-High (24)	1912.5 (26665)	20.50	20.85	20.72
		1882.5 (26365)	20.59	20.92	20.81
		1852.5 (26065)	20.53	20.79	20.78
	1RB-Middle (12)	1912.5 (26665)	20.92	21.31	21.14
		1882.5 (26365)	20.89	21.21	21.12
		1852.5 (26065)	20.82	21.26	21.11
	1RB-Low (0)	1912.5 (26665)	20.59	20.89	20.84
		1882.5 (26365)	20.60	20.90	20.85
		1852.5 (26065)	20.61	21.00	20.84
	12RB-High (13)	1912.5 (26665)	20.66	20.72	20.71
		1882.5 (26365)	20.70	20.74	20.73
		1852.5 (26065)	20.71	20.75	20.72
	12RB-Middle (6)	1912.5 (26665)	20.78	20.82	20.79
		1882.5 (26365)	20.78	20.84	20.82
		1852.5 (26065)	20.71	20.75	20.74
	12RB-Low (0)	1912.5 (26665)	20.74	20.76	20.76
		1882.5 (26365)	20.76	20.81	20.79

		1852.5 (26065)	20.70	20.72	20.68
	25RB (0)	1912.5 (26665)	20.72	20.73	20.73
		1882.5 (26365)	20.75	20.74	20.74
		1852.5 (26065)	20.71	20.73	20.72
10MHz	1RB-High (49)	1910 (26640)	20.62	20.74	20.86
		1882.5 (26365)	20.69	20.88	20.91
		1855 (26090)	20.64	20.77	20.89
	1RB-Middle (24)	1910 (26640)	20.78	21.00	21.03
		1882.5 (26365)	20.76	21.00	21.05
		1855 (26090)	20.76	20.93	21.01
	1RB-Low (0)	1910 (26640)	20.77	20.95	21.00
		1882.5 (26365)	20.71	20.88	20.93
		1855 (26090)	20.72	20.91	20.95
	25RB-High (25)	1910 (26640)	20.77	20.77	20.77
		1882.5 (26365)	20.75	20.77	20.75
		1855 (26090)	20.71	20.74	20.74
	25RB-Middle (12)	1910 (26640)	20.82	20.84	20.82
		1882.5 (26365)	20.76	20.77	20.79
		1855 (26090)	20.68	20.71	20.71
	25RB-Low (0)	1910 (26640)	20.96	20.97	20.96
		1882.5 (26365)	20.82	20.84	20.84
		1855 (26090)	20.72	20.73	20.72
	50RB (0)	1910 (26640)	20.92	20.89	20.92
		1882.5 (26365)	20.80	20.80	20.82
		1855 (26090)	20.69	20.71	20.73
15MHz	1RB-High (74)	1907.5 (26615)	20.62	20.94	20.84
		1882.5 (26365)	20.68	20.98	20.89
		1857.5 (26115)	20.65	21.00	20.84
	1RB-Middle (37)	1907.5 (26615)	20.87	21.26	21.16
		1882.5 (26365)	20.81	21.16	21.09
		1857.5 (26115)	20.79	21.08	21.03
	1RB-Low (0)	1907.5 (26615)	20.80	21.02	21.00
		1882.5 (26365)	20.62	20.95	20.88
		1857.5 (26115)	20.65	20.97	20.94
	36RB-High (38)	1907.5 (26615)	20.79	20.77	20.74
		1882.5 (26365)	20.77	20.74	20.73
		1857.5 (26115)	20.73	20.72	20.72
	36RB-Middle (19)	1907.5 (26615)	20.84	20.83	20.84
		1882.5 (26365)	20.78	20.77	20.74
		1857.5 (26115)	20.71	20.69	20.68
	36RB-Low (0)	1907.5 (26615)	20.99	20.97	20.95
		1882.5 (26365)	20.79	20.77	20.80

		1857.5 (26115)	20.72	20.70	20.71
	75RB (0)	1907.5 (26615)	20.87	20.88	20.88
		1882.5 (26365)	20.78	20.79	20.76
		1857.5 (26115)	20.71	20.71	20.73
20MHz	1RB-High (99)	1905 (26590)	20.57	20.95	20.78
		1882.5 (26365)	20.64	21.02	20.90
		1860 (26140)	20.60	20.93	20.84
	1RB-Middle (50)	1905 (26590)	20.86	21.25	21.08
		1882.5 (26365)	20.77	21.13	21.07
		1860 (26140)	20.81	21.17	21.02
	1RB-Low (0)	1905 (26590)	20.73	21.09	20.94
		1882.5 (26365)	20.57	20.86	20.80
		1860 (26140)	20.62	21.00	20.83
	50RB-High (50)	1905 (26590)	20.69	20.67	20.68
		1882.5 (26365)	20.73	20.73	20.78
		1860 (26140)	20.75	20.75	20.79
	50RB-Middle (25)	1905 (26590)	20.91	20.90	20.91
		1882.5 (26365)	20.78	20.78	20.81
		1860 (26140)	20.75	20.75	20.79
	50RB-Low (0)	1905 (26590)	20.95	20.93	20.94
		1882.5 (26365)	20.84	20.83	20.87
		1860 (26140)	20.68	20.68	20.68
	100RB (0)	1905 (26590)	20.79	20.81	20.80
		1882.5 (26365)	20.76	20.80	20.78
		1860 (26140)	20.71	20.71	20.72

LTE B25 Power Level C1

Band 25-Power level C1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	19.73	19.91	19.93
		1882.5 (26365)	19.69	19.91	19.94
		1850.7 (26047)	19.70	19.93	20.01
	1RB-Middle (3)	1914.3 (26683)	19.88	20.08	20.07
		1882.5 (26365)	19.83	19.95	20.12
		1850.7 (26047)	19.80	20.06	20.11
	1RB-Low (0)	1914.3 (26683)	19.73	19.95	20.00
		1882.5 (26365)	19.68	19.89	19.99
		1850.7 (26047)	19.73	19.93	20.02
	3RB-High (3)	1914.3 (26683)	19.82	19.86	19.85
		1882.5 (26365)	19.78	19.87	19.84

		1850.7 (26047)	19.83	19.91	19.89
	3RB-Middle (1)	1914.3 (26683)	19.89	19.91	19.91
		1882.5 (26365)	19.83	19.88	19.88
		1850.7 (26047)	19.88	19.95	19.95
	3RB-Low (0)	1914.3 (26683)	19.84	19.86	19.83
		1882.5 (26365)	19.78	19.82	19.81
		1850.7 (26047)	19.81	19.89	19.86
	6RB (0)	1914.3 (26683)	19.83	19.84	19.89
		1882.5 (26365)	19.77	19.78	19.86
		1850.7 (26047)	19.80	19.89	19.92
3MHz	1RB-High (14)	1913.5 (26675)	19.82	20.00	20.06
		1882.5 (26365)	19.80	20.14	20.11
		1851.5 (26055)	19.81	20.07	20.10
	1RB-Middle (7)	1913.5 (26675)	19.99	20.13	20.20
		1882.5 (26365)	19.90	20.25	20.22
		1851.5 (26055)	20.04	20.21	20.29
	1RB-Low (0)	1913.5 (26675)	19.80	20.09	20.05
		1882.5 (26365)	19.79	20.06	20.02
		1851.5 (26055)	19.83	20.04	20.11
	8RB-High (7)	1913.5 (26675)	19.84	19.86	19.88
		1882.5 (26365)	19.82	19.88	19.85
		1851.5 (26055)	19.86	19.90	19.90
	8RB-Middle (4)	1913.5 (26675)	19.88	19.93	19.89
		1882.5 (26365)	19.83	19.91	19.86
		1851.5 (26055)	19.90	19.96	19.93
	8RB-Low (0)	1913.5 (26675)	19.86	19.92	19.90
		1882.5 (26365)	19.79	19.90	19.83
		1851.5 (26055)	19.87	19.91	19.89
	15RB (0)	1913.5 (26675)	19.84	19.83	19.90
		1882.5 (26365)	19.80	19.80	19.88
		1851.5 (26055)	19.83	19.85	19.88
5MHz	1RB-High (24)	1912.5 (26665)	19.72	20.07	19.94
		1882.5 (26365)	19.70	20.04	19.96
		1852.5 (26065)	19.73	20.09	20.01
	1RB-Middle (12)	1912.5 (26665)	19.98	20.29	20.24
		1882.5 (26365)	19.92	20.24	20.17
		1852.5 (26065)	19.97	20.39	20.17
	1RB-Low (0)	1912.5 (26665)	19.72	20.13	20.01
		1882.5 (26365)	19.68	20.08	19.97
		1852.5 (26065)	19.75	20.09	20.01
	12RB-High (13)	1912.5 (26665)	19.83	19.86	19.84
		1882.5 (26365)	19.80	19.88	19.85

		1852.5 (26065)	19.88	19.93	19.92
	12RB-Middle (6)	1912.5 (26665)	19.90	19.96	19.96
		1882.5 (26365)	19.85	19.92	19.90
		1852.5 (26065)	19.93	19.94	19.96
	12RB-Low (0)	1912.5 (26665)	19.89	19.91	19.89
		1882.5 (26365)	19.82	19.88	19.87
		1852.5 (26065)	19.82	19.84	19.87
	25RB (0)	1912.5 (26665)	19.89	19.91	19.91
		1882.5 (26365)	19.83	19.85	19.89
		1852.5 (26065)	19.85	19.88	19.91
10MHz	1RB-High (49)	1910 (26640)	19.81	20.00	20.05
		1882.5 (26365)	19.81	20.05	20.08
		1855 (26090)	19.74	19.92	20.04
	1RB-Middle (24)	1910 (26640)	19.96	20.21	20.19
		1882.5 (26365)	19.88	20.15	20.19
		1855 (26090)	19.92	20.11	20.21
	1RB-Low (0)	1910 (26640)	19.78	20.02	20.04
		1882.5 (26365)	19.80	19.96	20.06
		1855 (26090)	19.78	19.96	20.07
	25RB-High (25)	1910 (26640)	19.89	19.92	19.92
		1882.5 (26365)	19.80	19.88	19.89
		1855 (26090)	19.81	19.87	19.90
	25RB-Middle (12)	1910 (26640)	19.93	19.97	19.95
		1882.5 (26365)	19.86	19.88	19.93
		1855 (26090)	19.83	19.88	19.93
	25RB-Low (0)	1910 (26640)	20.05	20.09	20.07
		1882.5 (26365)	19.91	19.92	19.95
		1855 (26090)	19.80	19.84	19.88
	50RB (0)	1910 (26640)	20.01	20.00	20.04
		1882.5 (26365)	19.91	19.91	19.96
		1855 (26090)	19.82	19.82	19.90
15MHz	1RB-High (74)	1907.5 (26615)	19.78	20.09	20.01
		1882.5 (26365)	19.76	19.98	19.99
		1857.5 (26115)	19.75	20.04	19.99
	1RB-Middle (37)	1907.5 (26615)	20.00	20.24	20.19
		1882.5 (26365)	19.97	20.24	20.21
		1857.5 (26115)	19.97	20.32	20.20
	1RB-Low (0)	1907.5 (26615)	19.80	20.11	20.04
		1882.5 (26365)	19.76	20.05	19.96
		1857.5 (26115)	19.78	20.06	20.01
	36RB-High (38)	1907.5 (26615)	19.87	19.85	19.86
		1882.5 (26365)	19.85	19.88	19.86

		1857.5 (26115)	19.85	19.81	19.86
	36RB-Middle (19)	1907.5 (26615)	19.90	19.90	19.91
		1882.5 (26365)	19.90	19.92	19.92
		1857.5 (26115)	19.87	19.85	19.90
	36RB-Low (0)	1907.5 (26615)	19.95	19.94	19.95
		1882.5 (26365)	19.90	19.86	19.90
		1857.5 (26115)	19.88	19.85	19.88
	75RB (0)	1907.5 (26615)	19.92	19.92	19.94
		1882.5 (26365)	19.89	19.88	19.91
		1857.5 (26115)	19.82	19.83	19.86
20MHz	1RB-High (99)	1905 (26590)	19.73	20.06	19.94
		1882.5 (26365)	19.70	20.04	19.91
		1860 (26140)	19.67	20.04	19.94
	1RB-Middle (50)	1905 (26590)	19.95	20.26	20.14
		1882.5 (26365)	19.89	20.18	20.15
		1860 (26140)	19.92	20.21	20.15
	1RB-Low (0)	1905 (26590)	19.75	20.14	20.00
		1882.5 (26365)	19.63	20.05	19.91
		1860 (26140)	19.73	20.06	19.96
	50RB-High (50)	1905 (26590)	19.68	19.68	19.67
		1882.5 (26365)	19.79	19.81	19.83
		1860 (26140)	19.83	19.88	19.88
	50RB-Middle (25)	1905 (26590)	19.92	19.92	19.95
		1882.5 (26365)	19.88	19.93	19.94
		1860 (26140)	19.89	19.88	19.90
	50RB-Low (0)	1905 (26590)	19.94	19.94	19.98
		1882.5 (26365)	19.91	19.92	19.94
		1860 (26140)	19.81	19.81	19.85
	100RB (0)	1905 (26590)	19.83	19.84	19.84
		1882.5 (26365)	19.85	19.91	19.90
		1860 (26140)	19.82	19.83	19.83

LTE B26 Power Level A1

Band 26-Power level A1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	848.3 (27033)	22.02	22.17	22.16
		831.5 (26865)	22.10	22.24	22.23
		814.7 (26697)	21.93	22.10	22.05
	1RB-Middle (3)	848.3 (27033)	22.10	22.29	22.28
		831.5 (26865)	22.20	22.38	22.36

		814.7 (26697)	22.02	22.19	22.18
	1RB-Low (0)	848.3 (27033)	22.01	22.17	22.14
		831.5 (26865)	22.09	22.18	22.22
		814.7 (26697)	21.91	22.03	22.02
	3RB-High (3)	848.3 (27033)	22.09	22.14	22.06
		831.5 (26865)	22.18	22.23	22.11
		814.7 (26697)	22.04	22.03	21.92
	3RB-Middle (1)	848.3 (27033)	22.15	22.16	22.09
		831.5 (26865)	22.21	22.23	22.11
		814.7 (26697)	22.05	22.11	21.96
	3RB-Low (0)	848.3 (27033)	22.10	22.10	22.00
		831.5 (26865)	22.17	22.19	22.07
		814.7 (26697)	22.02	22.02	21.91
	6RB (0)	848.3 (27033)	22.12	22.10	21.10
		831.5 (26865)	22.18	22.15	21.19
		814.7 (26697)	21.99	22.02	20.99
3MHz	1RB-High (14)	847.5 (27025)	22.10	22.31	22.21
		831.5 (26865)	22.16	22.47	22.28
		815.5 (26705)	22.03	22.30	22.13
	1RB-Middle (7)	847.5 (27025)	22.26	22.35	22.36
		831.5 (26865)	22.34	22.61	22.51
		815.5 (26705)	22.17	22.33	22.24
	1RB-Low (0)	847.5 (27025)	22.08	22.29	22.18
		831.5 (26865)	22.14	22.41	22.23
		815.5 (26705)	21.98	22.27	22.14
	8RB-High (7)	847.5 (27025)	22.09	22.12	21.09
		831.5 (26865)	22.22	22.26	21.15
		815.5 (26705)	22.03	22.06	21.00
	8RB-Middle (4)	847.5 (27025)	22.15	22.19	21.11
		831.5 (26865)	22.24	22.24	21.20
		815.5 (26705)	22.06	22.08	21.01
	8RB-Low (0)	847.5 (27025)	22.15	22.17	21.10
		831.5 (26865)	22.19	22.23	21.14
		815.5 (26705)	21.98	22.00	20.95
	15RB (0)	847.5 (27025)	22.14	22.08	21.13
		831.5 (26865)	22.20	22.17	21.17
		815.5 (26705)	22.01	22.00	21.00
5MHz	1RB-High (24)	846.5 (27015)	21.97	22.26	22.05
		831.5 (26865)	22.06	22.38	22.18
		816.5 (26715)	21.92	22.31	22.09
	1RB-Middle (12)	846.5 (27015)	22.25	22.59	22.35
		831.5 (26865)	22.32	22.51	22.42

		816.5 (26715)	22.08	22.49	22.29
	1RB-Low (0)	846.5 (27015)	21.95	22.20	22.06
		831.5 (26865)	22.01	22.28	22.13
		816.5 (26715)	21.89	22.21	22.03
	12RB-High (13)	846.5 (27015)	22.08	22.11	21.07
		831.5 (26865)	22.19	22.26	21.19
		816.5 (26715)	22.07	22.10	21.04
	12RB-Middle (6)	846.5 (27015)	22.18	22.20	21.15
		831.5 (26865)	22.24	22.26	21.20
		816.5 (26715)	22.08	22.13	21.06
	12RB-Low (0)	846.5 (27015)	22.14	22.16	21.11
		831.5 (26865)	22.18	22.19	21.11
		816.5 (26715)	21.99	22.02	20.94
	25RB (0)	846.5 (27015)	22.13	22.12	21.11
		831.5 (26865)	22.16	22.19	21.13
		816.5 (26715)	22.06	22.04	21.01
10MHz	1RB-High (49)	844 (26990)	22.07	22.19	22.16
		831.5 (26865)	22.12	22.31	22.25
		820 (26750)	21.91	22.07	22.02
	1RB-Middle (24)	844 (26990)	22.17	22.26	22.20
		831.5 (26865)	22.27	22.41	22.36
		820 (26750)	22.11	22.31	22.22
	1RB-Low (0)	844 (26990)	22.05	22.21	22.16
		831.5 (26865)	21.94	22.12	22.05
		820 (26750)	21.98	22.09	22.09
	25RB-High (25)	844 (26990)	22.06	22.06	21.02
		831.5 (26865)	22.20	22.24	21.18
		820 (26750)	22.03	22.03	21.01
	25RB-Middle (12)	844 (26990)	22.11	22.10	21.06
		831.5 (26865)	22.19	22.21	21.16
		820 (26750)	22.04	22.05	21.01
	25RB-Low (0)	844 (26990)	22.14	22.13	21.11
		831.5 (26865)	22.12	22.12	21.08
		820 (26750)	22.00	22.00	20.98
	50RB (0)	844 (26990)	22.10	22.10	21.07
		831.5 (26865)	22.17	22.18	21.15
		820 (26750)	22.02	22.01	20.98
15MHz	1RB-High (74)	841.5 (26965)	21.99	22.27	22.11
		831.5 (26865)	21.99	22.28	22.12
		822.5 (26775)	21.90	22.11	22.02
	1RB-Middle (37)	841.5 (26965)	22.24	22.46	22.22
		831.5 (26865)	22.32	22.57	22.42

		822.5 (26775)	22.13	22.44	22.28
	1RB-Low (0)	841.5 (26965)	22.07	22.24	22.20
		831.5 (26865)	21.88	22.15	22.02
		822.5 (26775)	21.91	22.21	22.04
	36RB-High (38)	841.5 (26965)	22.02	22.01	20.98
		831.5 (26865)	22.16	22.13	21.11
		822.5 (26775)	21.97	21.91	20.92
	36RB-Middle (19)	841.5 (26965)	22.11	22.08	21.05
		831.5 (26865)	22.21	22.19	21.12
		822.5 (26775)	22.07	22.02	20.99
	36RB-Low (0)	841.5 (26965)	22.12	22.09	21.08
		831.5 (26865)	22.04	22.03	21.00
		822.5 (26775)	22.02	22.00	20.95
	75RB (0)	841.5 (26965)	22.06	22.04	21.03
		831.5 (26865)	22.09	22.10	21.05
		822.5 (26775)	21.98	21.97	20.95

LTE B26 Power Level B1/C1

Band 26-Power level B1/C1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	848.3 (27033)	23.97	23.09	22.15
		831.5 (26865)	24.08	23.25	22.26
		814.7 (26697)	23.90	23.02	22.08
	1RB-Middle (3)	848.3 (27033)	24.11	23.22	22.28
		831.5 (26865)	24.20	23.34	22.37
		814.7 (26697)	24.03	23.15	22.24
	1RB-Low (0)	848.3 (27033)	24.00	23.12	22.17
		831.5 (26865)	24.07	23.26	22.29
		814.7 (26697)	23.89	23.07	22.10
	3RB-High (3)	848.3 (27033)	24.11	23.10	22.03
		831.5 (26865)	24.19	23.19	22.17
		814.7 (26697)	24.01	23.01	22.02
	3RB-Middle (1)	848.3 (27033)	24.19	23.16	22.12
		831.5 (26865)	24.23	23.22	22.22
		814.7 (26697)	24.05	23.02	21.98
	3RB-Low (0)	848.3 (27033)	24.14	23.14	22.08
		831.5 (26865)	24.18	23.18	22.17
		814.7 (26697)	23.99	23.00	21.98
	6RB (0)	848.3 (27033)	23.13	22.13	21.17

		831.5 (26865)	23.18	22.16	21.22
		814.7 (26697)	22.98	22.04	21.03
3MHz	1RB-High (14)	847.5 (27025)	24.09	23.19	22.27
		831.5 (26865)	24.16	23.44	22.36
		815.5 (26705)	24.02	23.27	22.23
	1RB-Middle (7)	847.5 (27025)	24.25	23.50	22.42
		831.5 (26865)	24.35	23.56	22.53
		815.5 (26705)	24.16	23.33	22.35
	1RB-Low (0)	847.5 (27025)	24.09	23.34	22.24
		831.5 (26865)	24.15	23.36	22.28
		815.5 (26705)	24.00	23.23	22.16
	8RB-High (7)	847.5 (27025)	23.13	22.14	21.13
		831.5 (26865)	23.23	22.26	21.23
		815.5 (26705)	23.03	22.04	21.07
	8RB-Middle (4)	847.5 (27025)	23.21	22.19	21.17
		831.5 (26865)	23.24	22.30	21.26
		815.5 (26705)	23.07	22.09	21.11
	8RB-Low (0)	847.5 (27025)	23.18	22.18	21.20
		831.5 (26865)	23.19	22.24	21.28
		815.5 (26705)	23.01	22.05	21.03
	15RB (0)	847.5 (27025)	23.16	22.11	21.16
		831.5 (26865)	23.23	22.18	21.25
		815.5 (26705)	23.05	22.00	21.08
5MHz	1RB-High (24)	846.5 (27015)	23.99	23.19	22.12
		831.5 (26865)	24.08	23.36	22.23
		816.5 (26715)	23.96	23.24	22.08
	1RB-Middle (12)	846.5 (27015)	24.21	23.54	22.41
		831.5 (26865)	24.34	23.70	22.51
		816.5 (26715)	24.21	23.37	22.34
	1RB-Low (0)	846.5 (27015)	23.95	23.16	22.10
		831.5 (26865)	24.04	23.34	22.18
		816.5 (26715)	23.88	23.18	22.08
	12RB-High (13)	846.5 (27015)	23.13	22.14	21.12
		831.5 (26865)	23.24	22.28	21.22
		816.5 (26715)	23.10	22.14	21.09
	12RB-Middle (6)	846.5 (27015)	23.19	22.25	21.19
		831.5 (26865)	23.26	22.27	21.25
		816.5 (26715)	23.14	22.14	21.13
	12RB-Low (0)	846.5 (27015)	23.19	22.19	21.16
		831.5 (26865)	23.17	22.21	21.17
		816.5 (26715)	23.02	22.05	21.03
	25RB (0)	846.5 (27015)	23.16	22.15	21.17

		831.5 (26865)	23.20	22.21	21.22
		816.5 (26715)	23.10	22.08	21.09
10MHz	1RB-High (49)	844 (26990)	24.09	23.13	22.25
		831.5 (26865)	24.15	23.28	22.33
		820 (26750)	23.98	23.12	22.16
	1RB-Middle (24)	844 (26990)	24.12	23.27	22.30
		831.5 (26865)	24.28	23.44	22.44
		820 (26750)	24.11	23.30	22.27
	1RB-Low (0)	844 (26990)	24.06	23.19	22.24
		831.5 (26865)	23.97	23.14	22.15
		820 (26750)	24.02	23.10	22.15
	25RB-High (25)	844 (26990)	23.11	22.07	21.10
		831.5 (26865)	23.24	22.25	21.25
		820 (26750)	23.08	22.09	21.09
	25RB-Middle (12)	844 (26990)	23.15	22.12	21.14
		831.5 (26865)	23.25	22.26	21.23
		820 (26750)	23.09	22.09	21.08
	25RB-Low (0)	844 (26990)	23.21	22.19	21.18
		831.5 (26865)	23.14	22.16	21.16
		820 (26750)	23.04	22.03	21.07
	50RB (0)	844 (26990)	23.16	22.13	21.15
		831.5 (26865)	23.23	22.18	21.21
		820 (26750)	23.06	22.04	21.10
15MHz	1RB-High (74)	841.5 (26965)	24.02	23.24	22.18
		831.5 (26865)	24.01	23.25	22.19
		822.5 (26775)	23.93	23.18	22.11
	1RB-Middle (37)	841.5 (26965)	24.26	23.34	22.38
		831.5 (26865)	24.35	23.55	22.53
		822.5 (26775)	24.20	23.34	22.34
	1RB-Low (0)	841.5 (26965)	24.08	23.35	22.25
		831.5 (26865)	23.91	23.14	22.08
		822.5 (26775)	23.95	23.19	22.13
	36RB-High (38)	841.5 (26965)	23.09	22.03	21.04
		831.5 (26865)	23.22	22.19	21.18
		822.5 (26775)	23.01	21.97	20.97
	36RB-Middle (19)	841.5 (26965)	23.14	22.11	21.11
		831.5 (26865)	23.24	22.20	21.20
		822.5 (26775)	23.11	22.08	21.08
	36RB-Low (0)	841.5 (26965)	23.16	22.12	21.16
		831.5 (26865)	23.11	22.05	21.08
		822.5 (26775)	23.07	22.03	21.03
	75RB (0)	841.5 (26965)	23.11	22.07	21.11

		831.5 (26865)	23.17	22.12	21.12
		822.5 (26775)	23.05	22.02	21.02

LTE B41 (PC3) Power Level A1

Band 41(PC3) - Power level A1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm) QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5 (41565)	22.86	22.25	21.24
		2640.3(41093)	22.88	22.19	21.20
		2593 (40620)	22.77	22.08	21.08
		2545.8(40148)	22.65	21.96	20.97
		2498.5 (39675)	22.73	22.04	21.04
	1RB-Middle (12)	2687.5 (41565)	22.98	22.25	21.33
		2640.3(41093)	23.03	22.34	21.32
		2593 (40620)	22.92	22.22	21.17
		2545.8(40148)	22.78	22.08	21.03
		2498.5 (39675)	22.84	22.14	21.13
	1RB-Low (0)	2687.5 (41565)	22.83	22.20	21.23
		2640.3(41093)	23.05	22.33	21.28
		2593 (40620)	22.79	22.11	21.14
		2545.8(40148)	22.62	21.94	20.95
		2498.5 (39675)	22.72	22.02	21.04
	12RB-High (13)	2687.5 (41565)	22.11	21.08	20.13
		2640.3(41093)	22.14	21.10	20.15
		2593 (40620)	22.00	20.96	19.98
		2545.8(40148)	21.83	20.81	19.80
		2498.5 (39675)	21.94	20.88	19.90
	12RB-Middle (6)	2687.5 (41565)	22.16	21.15	20.19
		2640.3(41093)	22.19	21.15	20.19
		2593 (40620)	22.06	21.00	20.04
		2545.8(40148)	21.88	20.85	19.84
		2498.5 (39675)	21.98	20.91	19.94
	12RB-Low (0)	2687.5 (41565)	22.10	21.09	20.11
		2640.3(41093)	22.19	21.13	20.14
		2593 (40620)	22.02	21.00	20.00
		2545.8(40148)	21.84	20.76	19.81
		2498.5 (39675)	21.90	20.87	19.88
	25RB (0)	2687.5 (41565)	22.15	21.22	20.23
		2640.3(41093)	22.14	21.23	20.24
		2593 (40620)	22.00	21.06	20.09
		2545.8(40148)	21.83	20.94	19.91

		2498.5 (39675)	21.93	20.99	20.00
10MHz	1RB-High (49)	2685 (41540)	22.99	22.22	21.35
		2639(41080)	22.93	22.15	21.25
		2593 (40620)	22.83	22.04	21.16
		2547(40160)	22.74	21.95	21.08
		2501 (39700)	22.79	22.00	21.09
	1RB-Middle (24)	2685 (41540)	23.08	22.29	21.35
		2639(41080)	23.08	22.25	21.45
		2593 (40620)	22.98	22.16	21.27
		2547(40160)	22.83	22.02	21.13
		2501 (39700)	22.92	22.11	21.21
	1RB-Low (0)	2685 (41540)	22.96	22.17	21.31
		2639(41080)	23.23	22.47	21.43
		2593 (40620)	22.93	22.12	21.24
		2547(40160)	22.67	21.95	21.02
		2501 (39700)	22.82	22.02	21.12
	25RB-High (25)	2685 (41540)	22.27	21.20	20.28
		2639(41080)	22.22	21.20	20.28
		2593 (40620)	22.06	21.03	20.07
		2547(40160)	21.91	20.89	19.96
		2501 (39700)	22.01	20.96	20.04
	25RB-Middle (12)	2685 (41540)	22.20	21.19	20.26
		2639(41080)	22.26	21.24	20.32
		2593 (40620)	22.08	21.03	20.14
		2547(40160)	21.93	20.91	19.96
		2501 (39700)	21.97	20.96	20.03
	25RB-Low (0)	2685 (41540)	22.21	21.16	20.31
		2639(41080)	22.28	21.26	20.34
		2593 (40620)	22.12	21.09	20.19
		2547(40160)	21.93	20.91	20.02
		2501 (39700)	21.98	20.97	20.03
	50RB (0)	2685 (41540)	22.21	21.20	20.25
		2639(41080)	22.25	21.25	20.27
		2593 (40620)	22.08	21.10	20.10
		2547(40160)	21.93	20.90	19.95
		2501 (39700)	21.98	20.96	20.00
15MHz	1RB-High (74)	2682.5 (41515)	23.01	22.30	21.24
		2637.8(41068)	22.96	22.24	21.18
		2593 (40620)	22.86	22.15	21.07
		2548.3(40173)	22.85	22.10	21.03
		2503.5 (39725)	22.86	22.13	21.05
	1RB-Middle	2682.5 (41515)	23.04	22.32	21.33

	(37)	2637.8(41068)	23.22	22.49	21.36
		2593 (40620)	22.99	22.26	21.26
		2548.3(40173)	22.94	22.11	21.09
		2503.5 (39725)	22.98	22.25	21.21
	1RB-Low (0)	2682.5 (41515)	22.95	22.25	21.18
		2637.8(41068)	23.25	22.46	21.36
		2593 (40620)	22.97	22.27	21.17
		2548.3(40173)	22.73	22.17	20.96
		2503.5 (39725)	22.88	22.16	21.07
	36RB-High (38)	2682.5 (41515)	22.13	21.13	20.12
		2637.8(41068)	22.18	21.18	20.15
		2593 (40620)	22.01	21.03	19.98
		2548.3(40173)	21.93	20.94	19.91
		2503.5 (39725)	21.96	20.96	19.94
	36RB-Middle (19)	2682.5 (41515)	22.16	21.17	20.15
		2637.8(41068)	22.24	21.25	20.23
		2593 (40620)	22.05	21.08	20.05
		2548.3(40173)	21.90	20.89	19.88
		2503.5 (39725)	22.00	20.99	19.97
	36RB-Low (0)	2682.5 (41515)	22.13	21.13	20.13
		2637.8(41068)	22.27	21.29	20.26
		2593 (40620)	22.07	21.10	20.07
		2548.3(40173)	21.89	20.90	19.88
		2503.5 (39725)	21.94	20.96	19.93
	75RB (0)	2682.5 (41515)	22.14	21.17	20.17
		2637.8(41068)	22.20	21.22	20.24
		2593 (40620)	22.04	21.07	20.06
		2548.3(40173)	21.93	20.96	19.94
		2503.5 (39725)	21.95	20.99	19.98
20MHz	1RB-High (99)	2680 (41490)	22.83	22.15	21.15
		2636.5(41055)	22.80	22.11	21.12
		2593 (40620)	22.69	22.00	20.99
		2549.5(40185)	22.66	21.97	20.94
		2506 (39750)	22.64	21.95	20.95
	1RB-Middle (50)	2680 (41490)	22.99	22.27	21.27
		2636.5(41055)	23.18	22.50	21.42
		2593 (40620)	22.91	22.25	21.30
		2549.5(40185)	22.87	22.16	21.17
		2506 (39750)	22.92	22.23	21.23
	1RB-Low (0)	2680 (41490)	22.77	22.10	21.17
		2636.5(41055)	23.02	22.33	21.39
		2593 (40620)	22.88	22.23	21.17

		2549.5(40185)	22.58	21.90	20.93
		2506 (39750)	22.79	22.06	21.04
	50RB-High (50)	2680 (41490)	22.07	21.09	20.08
		2636.5(41055)	22.15	21.19	20.19
		2593 (40620)	21.98	21.00	19.97
		2549.5(40185)	21.89	20.91	19.89
		2506 (39750)	21.93	20.96	19.95
	50RB-Middle (25)	2680 (41490)	22.12	21.13	20.13
		2636.5(41055)	22.24	21.29	20.27
		2593 (40620)	22.05	21.08	20.07
		2549.5(40185)	21.93	20.96	19.95
		2506 (39750)	22.00	21.02	20.00
	50RB-Low (0)	2680 (41490)	22.08	21.11	20.09
		2636.5(41055)	22.24	21.26	20.27
		2593 (40620)	22.12	21.15	20.11
		2549.5(40185)	21.90	20.95	19.91
		2506 (39750)	21.92	20.97	19.95
	100RB (0)	2680 (41490)	22.08	21.13	20.07
		2636.5(41055)	22.20	21.25	20.20
		2593 (40620)	22.07	21.11	20.04
		2549.5(40185)	21.89	20.92	19.87
		2506 (39750)	21.95	20.99	19.95

LTE B41 (PC3) Power Level B1

Band 41(PC3) - Power level B1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm) QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5 (41565)	18.95	19.25	19.22
		2640.3(41093)	18.89	19.17	19.15
		2593 (40620)	18.77	19.07	19.03
		2545.8(40148)	18.59	18.89	18.86
		2498.5 (39675)	18.72	19.03	18.99
	1RB-Middle (12)	2687.5 (41565)	19.05	19.35	19.33
		2640.3(41093)	19.05	19.36	19.33
		2593 (40620)	18.87	19.16	19.15
		2545.8(40148)	18.71	19.01	18.97
		2498.5 (39675)	18.81	19.12	19.09
	1RB-Low (0)	2687.5 (41565)	18.92	19.25	19.22
		2640.3(41093)	18.93	19.26	19.25
		2593 (40620)	18.79	19.09	19.09

		2545.8(40148)	18.56	18.86	18.84
		2498.5 (39675)	18.69	19.00	19.01
	12RB-High (13)	2687.5 (41565)	19.13	19.08	19.11
		2640.3(41093)	19.08	19.05	19.06
		2593 (40620)	18.93	18.87	18.93
		2545.8(40148)	18.73	18.66	18.69
		2498.5 (39675)	18.86	18.80	18.83
	12RB-Middle (6)	2687.5 (41565)	19.17	19.15	19.17
		2640.3(41093)	19.15	19.11	19.12
		2593 (40620)	19.00	18.94	18.98
		2545.8(40148)	18.76	18.71	18.74
		2498.5 (39675)	18.92	18.86	18.90
	12RB-Low (0)	2687.5 (41565)	19.12	19.06	19.10
		2640.3(41093)	19.12	19.06	19.10
		2593 (40620)	18.95	18.91	18.96
		2545.8(40148)	18.73	18.66	18.70
		2498.5 (39675)	18.87	18.82	18.84
	25RB (0)	2687.5 (41565)	19.14	19.22	19.20
		2640.3(41093)	19.10	19.17	19.16
		2593 (40620)	18.94	19.01	18.98
		2545.8(40148)	18.75	18.81	18.77
		2498.5 (39675)	18.87	18.91	18.93
10MHz	1RB-High (49)	2685 (41540)	19.04	19.21	19.33
		2639(41080)	18.95	19.09	19.23
		2593 (40620)	18.81	18.99	19.10
		2547(40160)	18.70	18.87	18.98
		2501 (39700)	18.75	18.90	19.03
	1RB-Middle (24)	2685 (41540)	19.11	19.28	19.38
		2639(41080)	19.12	19.27	19.40
		2593 (40620)	18.96	19.11	19.23
		2547(40160)	18.77	18.90	19.04
		2501 (39700)	18.89	19.04	19.19
	1RB-Low (0)	2685 (41540)	18.98	19.17	19.28
		2639(41080)	19.10	19.25	19.38
		2593 (40620)	18.90	19.07	19.17
		2547(40160)	18.63	18.79	18.92
		2501 (39700)	18.78	18.95	19.08
	25RB-High (25)	2685 (41540)	19.20	19.17	19.25
		2639(41080)	19.16	19.13	19.21
		2593 (40620)	19.00	18.96	19.05
		2547(40160)	18.80	18.78	18.86
		2501 (39700)	18.93	18.89	18.99

	25RB-Middle (12)	2685 (41540)	19.16	19.14	19.24
		2639(41080)	19.20	19.17	19.25
		2593 (40620)	19.01	18.97	19.07
		2547(40160)	18.82	18.78	18.86
		2501 (39700)	18.91	18.88	18.97
	25RB-Low (0)	2685 (41540)	19.19	19.15	19.25
		2639(41080)	19.23	19.20	19.30
		2593 (40620)	19.03	19.04	19.11
		2547(40160)	18.82	18.77	18.87
		2501 (39700)	18.92	18.89	19.00
	50RB (0)	2685 (41540)	19.16	19.16	19.20
		2639(41080)	19.18	19.16	19.19
		2593 (40620)	19.03	19.01	19.06
		2547(40160)	18.80	18.80	18.83
		2501 (39700)	18.90	18.89	18.94
15MHz	1RB-High (74)	2682.5 (41515)	19.05	19.30	19.22
		2637.8(41068)	18.97	19.23	19.15
		2593 (40620)	18.85	19.12	19.02
		2548.3(40173)	18.74	19.03	18.94
		2503.5 (39725)	18.80	19.06	18.98
	1RB-Middle (37)	2682.5 (41515)	19.13	19.39	19.28
		2637.8(41068)	19.20	19.47	19.39
		2593 (40620)	19.00	19.28	19.17
		2548.3(40173)	18.87	19.14	19.04
		2503.5 (39725)	18.96	19.22	19.12
	1RB-Low (0)	2682.5 (41515)	18.98	19.23	19.14
		2637.8(41068)	19.12	19.41	19.33
		2593 (40620)	18.94	19.20	19.13
		2548.3(40173)	18.69	18.95	18.84
		2503.5 (39725)	18.85	19.11	19.03
	36RB-High (38)	2682.5 (41515)	19.09	19.07	19.08
		2637.8(41068)	19.09	19.10	19.09
		2593 (40620)	18.92	18.93	18.94
		2548.3(40173)	18.80	18.80	18.79
		2503.5 (39725)	18.85	18.85	18.85
	36RB-Middle (19)	2682.5 (41515)	19.11	19.10	19.10
		2637.8(41068)	19.16	19.16	19.16
		2593 (40620)	18.97	18.98	18.98
		2548.3(40173)	18.76	18.79	18.76
		2503.5 (39725)	18.90	18.90	18.90
	36RB-Low (0)	2682.5 (41515)	19.06	19.07	19.08
		2637.8(41068)	19.19	19.20	19.19

		2593 (40620)	18.98	19.00	18.99
		2548.3(40173)	18.75	18.78	18.76
		2503.5 (39725)	18.87	18.86	18.87
	75RB (0)	2682.5 (41515)	19.09	19.13	19.11
		2637.8(41068)	19.12	19.15	19.17
		2593 (40620)	18.94	18.98	19.00
		2548.3(40173)	18.78	18.81	18.81
		2503.5 (39725)	18.87	18.88	18.90
20MHz	1RB-High (99)	2680 (41490)	18.84	19.14	19.12
		2636.5(41055)	18.78	19.08	19.06
		2593 (40620)	18.64	18.94	18.93
		2549.5(40185)	18.57	18.87	18.86
		2506 (39750)	18.55	18.85	18.87
	1RB-Middle (50)	2680 (41490)	19.03	19.34	19.31
		2636.5(41055)	19.15	19.47	19.46
		2593 (40620)	18.89	19.22	19.21
		2549.5(40185)	18.76	19.09	19.05
		2506 (39750)	18.88	19.18	19.16
	1RB-Low (0)	2680 (41490)	18.76	19.06	19.06
		2636.5(41055)	18.97	19.30	19.29
		2593 (40620)	18.81	19.12	19.11
		2549.5(40185)	18.47	18.80	18.76
		2506 (39750)	18.69	19.01	18.99
	50RB-High (50)	2680 (41490)	19.01	19.05	19.06
		2636.5(41055)	19.06	19.10	19.10
		2593 (40620)	18.88	18.93	18.93
		2549.5(40185)	18.77	18.78	18.79
		2506 (39750)	18.81	18.85	18.84
	50RB-Middle (25)	2680 (41490)	19.05	19.08	19.10
		2636.5(41055)	19.17	19.21	19.24
		2593 (40620)	18.96	19.01	19.01
		2549.5(40185)	18.79	18.84	18.84
		2506 (39750)	18.89	18.92	18.92
	50RB-Low (0)	2680 (41490)	19.01	19.05	19.06
		2636.5(41055)	19.16	19.20	19.21
		2593 (40620)	19.01	19.05	19.05
		2549.5(40185)	18.77	18.79	18.79
		2506 (39750)	18.84	18.87	18.86
	100RB (0)	2680 (41490)	19.01	19.07	19.03
		2636.5(41055)	19.11	19.17	19.14
		2593 (40620)	18.95	19.00	18.98
		2549.5(40185)	18.73	18.81	18.77

		2506 (39750)	18.83	18.88	18.87

LTE B41(PC3) Power level C1

Band 41(PC3) - Power level C1					
Bandwidth (MHz)	RB allocation	Frequency	Actual output power (dBm)		
	RB offset	(MHz)	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5 (41565)	18.22	18.54	18.51
		2640.3(41093)	18.01	18.34	18.34
		2593 (40620)	17.85	18.14	18.19
		2545.8(40148)	17.56	17.85	17.89
		2498.5 (39675)	17.76	18.08	18.09
	1RB-Middle (12)	2687.5 (41565)	18.27	18.62	18.61
		2640.3(41093)	18.11	18.44	18.48
		2593 (40620)	17.98	18.32	18.31
		2545.8(40148)	17.66	17.98	17.95
		2498.5 (39675)	17.91	18.22	18.22
	1RB-Low (0)	2687.5 (41565)	18.14	18.48	18.46
		2640.3(41093)	18.05	18.39	18.39
		2593 (40620)	17.86	18.21	18.23
		2545.8(40148)	17.53	17.88	17.90
		2498.5 (39675)	17.78	18.12	18.14
	12RB-High (13)	2687.5 (41565)	18.38	18.34	18.37
		2640.3(41093)	18.19	18.17	18.20
		2593 (40620)	18.00	17.98	18.03
		2545.8(40148)	17.70	17.64	17.71
		2498.5 (39675)	17.94	17.90	17.94
	12RB-Middle (6)	2687.5 (41565)	18.43	18.39	18.41
		2640.3(41093)	18.27	18.25	18.29
		2593 (40620)	18.10	18.07	18.12
		2545.8(40148)	17.75	17.73	17.74
		2498.5 (39675)	18.00	17.96	18.03
	12RB-Low (0)	2687.5 (41565)	18.38	18.32	18.35
		2640.3(41093)	18.22	18.18	18.21
		2593 (40620)	18.04	18.03	18.06
		2545.8(40148)	17.74	17.69	17.76
		2498.5 (39675)	17.94	17.91	17.99
	25RB (0)	2687.5 (41565)	18.38	18.43	18.46
		2640.3(41093)	18.24	18.29	18.31
		2593 (40620)	18.04	18.09	18.15
		2545.8(40148)	17.72	17.78	17.81
		2498.5 (39675)	17.96	18.03	18.05

10MHz	1RB-High (49)	2685 (41540)	18.27	18.47	18.59
		2639(41080)	18.07	18.23	18.42
		2593 (40620)	17.92	18.08	18.27
		2547(40160)	17.68	17.84	17.98
		2501 (39700)	17.80	17.96	18.14
	1RB-Middle (24)	2685 (41540)	18.36	18.53	18.67
		2639(41080)	18.26	18.42	18.59
		2593 (40620)	18.09	18.26	18.42
		2547(40160)	17.80	17.95	18.14
		2501 (39700)	17.98	18.13	18.30
	1RB-Low (0)	2685 (41540)	18.20	18.37	18.52
		2639(41080)	18.19	18.35	18.54
		2593 (40620)	18.00	18.16	18.33
		2547(40160)	17.64	17.79	17.98
		2501 (39700)	17.88	18.03	18.21
	25RB-High (25)	2685 (41540)	18.41	18.40	18.48
		2639(41080)	18.25	18.24	18.40
		2593 (40620)	18.09	18.09	18.19
		2547(40160)	17.79	17.79	17.92
		2501 (39700)	17.99	17.98	18.09
	25RB-Middle (12)	2685 (41540)	18.40	18.38	18.49
		2639(41080)	18.28	18.29	18.39
		2593 (40620)	18.13	18.10	18.23
		2547(40160)	17.78	17.78	17.90
		2501 (39700)	17.99	17.97	18.08
	25RB-Low (0)	2685 (41540)	18.40	18.40	18.52
		2639(41080)	18.34	18.32	18.45
		2593 (40620)	18.11	18.12	18.23
		2547(40160)	17.82	17.82	17.94
		2501 (39700)	18.02	17.99	18.13
	50RB (0)	2685 (41540)	18.40	18.41	18.48
		2639(41080)	18.29	18.28	18.36
		2593 (40620)	18.10	18.12	18.18
		2547(40160)	17.79	17.79	17.87
		2501 (39700)	17.98	18.00	18.05
15MHz	1RB-High (74)	2682.5 (41515)	18.29	18.57	18.51
		2637.8(41068)	18.10	18.40	18.31
		2593 (40620)	17.96	18.25	18.17
		2548.3(40173)	17.72	18.00	17.92
		2503.5 (39725)	17.86	18.13	18.05
	1RB-Middle (37)	2682.5 (41515)	18.30	18.56	18.49
		2637.8(41068)	18.26	18.57	18.48

		2593 (40620)	18.14	18.42	18.36
		2548.3(40173)	17.84	18.13	18.03
		2503.5 (39725)	18.02	18.31	18.21
	1RB-Low (0)	2682.5 (41515)	18.14	18.48	18.38
		2637.8(41068)	18.24	18.54	18.47
		2593 (40620)	18.05	18.34	18.26
		2548.3(40173)	17.73	17.99	17.92
		2503.5 (39725)	17.96	18.25	18.16
	36RB-High (38)	2682.5 (41515)	18.29	18.33	18.33
		2637.8(41068)	18.18	18.21	18.21
		2593 (40620)	18.04	18.06	18.06
		2548.3(40173)	17.80	17.82	17.81
		2503.5 (39725)	17.93	17.94	17.93
	36RB-Middle (19)	2682.5 (41515)	18.25	18.30	18.28
		2637.8(41068)	18.24	18.26	18.26
		2593 (40620)	18.10	18.11	18.11
		2548.3(40173)	17.79	17.82	17.80
		2503.5 (39725)	17.97	17.98	17.95
	36RB-Low (0)	2682.5 (41515)	18.24	18.28	18.25
		2637.8(41068)	18.28	18.30	18.30
		2593 (40620)	18.09	18.12	18.11
		2548.3(40173)	17.80	17.82	17.80
		2503.5 (39725)	17.98	18.00	17.99
	75RB (0)	2682.5 (41515)	18.28	18.35	18.34
		2637.8(41068)	18.22	18.29	18.30
		2593 (40620)	18.07	18.12	18.13
		2548.3(40173)	17.78	17.82	17.83
		2503.5 (39725)	17.95	17.99	17.98
20MHz	1RB-High (99)	2680 (41490)	18.11	18.45	18.42
		2636.5(41055)	17.96	18.26	18.25
		2593 (40620)	17.75	18.11	18.05
		2549.5(40185)	17.56	17.90	17.89
		2506 (39750)	17.62	17.94	17.91
	1RB-Middle (50)	2680 (41490)	18.20	18.49	18.51
		2636.5(41055)	18.21	18.54	18.57
		2593 (40620)	18.07	18.41	18.37
		2549.5(40185)	17.76	18.09	18.07
		2506 (39750)	17.93	18.27	18.23
	1RB-Low (0)	2680 (41490)	17.93	18.29	18.24
		2636.5(41055)	18.07	18.38	18.37
		2593 (40620)	17.86	18.23	18.21
		2549.5(40185)	17.56	17.89	17.85

		2506 (39750)	17.83	18.14	18.12
	50RB-High (50)	2680 (41490)	18.21	18.28	18.28
		2636.5(41055)	18.16	18.22	18.23
		2593 (40620)	17.96	18.03	18.02
		2549.5(40185)	17.74	17.80	17.79
		2506 (39750)	17.85	17.90	17.86
	50RB-Middle (25)	2680 (41490)	18.25	18.31	18.31
		2636.5(41055)	18.26	18.31	18.31
		2593 (40620)	18.07	18.12	18.13
		2549.5(40185)	17.78	17.82	17.82
		2506 (39750)	17.96	17.99	17.98
	50RB-Low (0)	2680 (41490)	18.19	18.24	18.24
		2636.5(41055)	18.25	18.33	18.32
		2593 (40620)	18.05	18.12	18.09
		2549.5(40185)	17.80	17.85	17.83
		2506 (39750)	17.97	18.00	18.00
	100RB (0)	2680 (41490)	18.21	18.28	18.24
		2636.5(41055)	18.21	18.30	18.25
		2593 (40620)	17.99	18.06	18.03
		2549.5(40185)	17.76	17.83	17.77
		2506 (39750)	17.92	17.96	17.91

LTE B41(PC2) Power level A1

Band 41 (PC2)-Power level A1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5 (41565)	25.82	25.03	24.12
		2640.3(41093)	25.81	25.04	24.06
		2593 (40620)	25.79	25.02	24.01
		2545.8(40148)	25.71	24.94	23.82
		2498.5 (39675)	25.81	25.02	23.94
	1RB-Middle (12)	2687.5 (41565)	26.01	25.17	24.25
		2640.3(41093)	26.05	25.23	24.26
		2593 (40620)	25.98	25.18	24.15
		2545.8(40148)	25.86	25.08	23.95
		2498.5 (39675)	25.97	25.15	23.98
	1RB-Low (0)	2687.5 (41565)	25.82	25.04	24.13
		2640.3(41093)	25.90	25.12	24.17
		2593 (40620)	25.82	25.07	24.05
		2545.8(40148)	25.68	24.91	23.80
		2498.5 (39675)	25.80	25.01	23.94

	12RB-High (13)	2687.5 (41565)	25.15	24.04	23.17
		2640.3(41093)	25.18	24.06	23.10
		2593 (40620)	25.08	23.97	22.99
		2545.8(40148)	24.95	23.82	22.78
		2498.5 (39675)	25.04	23.92	22.86
	12RB-Middle (6)	2687.5 (41565)	25.23	24.10	23.26
		2640.3(41093)	25.25	24.11	23.19
		2593 (40620)	25.17	24.04	23.06
		2545.8(40148)	24.99	23.86	22.83
		2498.5 (39675)	25.09	23.98	22.89
	12RB-Low (0)	2687.5 (41565)	25.15	24.04	23.15
		2640.3(41093)	25.21	24.09	23.19
		2593 (40620)	25.13	24.00	23.04
		2545.8(40148)	24.97	23.82	22.76
		2498.5 (39675)	25.06	23.94	22.90
	25RB (0)	2687.5 (41565)	25.12	24.16	23.26
		2640.3(41093)	25.14	24.17	23.24
		2593 (40620)	25.07	24.09	23.10
		2545.8(40148)	24.93	23.94	22.87
		2498.5 (39675)	25.01	23.98	22.96
10MHz	1RB-High (49)	2685 (41540)	25.99	25.14	24.18
		2639(41080)	25.83	25.08	24.12
		2593 (40620)	25.81	25.02	24.07
		2547(40160)	25.79	24.99	23.94
		2501 (39700)	25.84	25.04	24.04
	1RB-Middle (24)	2685 (41540)	26.07	25.21	24.26
		2639(41080)	26.03	25.23	24.29
		2593 (40620)	25.95	25.15	24.20
		2547(40160)	25.85	25.05	23.98
		2501 (39700)	25.94	25.13	24.12
	1RB-Low (0)	2685 (41540)	25.96	25.10	24.17
		2639(41080)	26.02	25.21	24.29
		2593 (40620)	25.91	25.10	24.15
		2547(40160)	25.73	24.95	23.88
		2501 (39700)	25.85	25.05	24.04
	25RB-High (25)	2685 (41540)	25.21	24.13	23.30
		2639(41080)	25.22	24.16	23.29
		2593 (40620)	25.09	24.04	23.14
		2547(40160)	25.00	23.94	22.95
		2501 (39700)	25.09	24.00	23.08
	25RB-Middle (12)	2685 (41540)	25.18	24.11	23.26
		2639(41080)	25.26	24.19	23.34

		2593 (40620)	25.14	24.07	23.16
		2547(40160)	25.00	23.94	22.97
		2501 (39700)	25.17	23.98	23.08
	25RB-Low (0)	2685 (41540)	25.19	24.14	23.28
		2639(41080)	25.29	24.22	23.38
		2593 (40620)	25.18	24.11	23.19
		2547(40160)	25.02	23.94	22.94
		2501 (39700)	25.07	23.97	23.04
	50RB (0)	2685 (41540)	25.26	24.19	23.06
		2639(41080)	25.29	24.23	23.31
		2593 (40620)	25.20	24.13	23.16
		2547(40160)	25.05	23.99	22.94
		2501 (39700)	25.12	24.05	23.04
15MHz	1RB-High (74)	2682.5 (41515)	25.93	25.08	24.14
		2637.8(41068)	25.87	25.10	24.12
		2593 (40620)	25.82	25.05	24.03
		2548.3(40173)	25.81	25.06	23.90
		2503.5 (39725)	25.87	25.12	24.04
	1RB-Middle (37)	2682.5 (41515)	26.07	25.22	24.26
		2637.8(41068)	26.18	25.32	24.35
		2593 (40620)	26.13	25.26	24.20
		2548.3(40173)	25.97	25.19	24.07
		2503.5 (39725)	26.01	25.25	24.07
	1RB-Low (0)	2682.5 (41515)	25.86	25.10	24.09
		2637.8(41068)	26.06	25.28	24.31
		2593 (40620)	26.03	25.20	24.10
		2548.3(40173)	25.76	25.02	23.85
		2503.5 (39725)	25.87	25.11	23.98
	36RB-High (38)	2682.5 (41515)	25.17	24.09	23.21
		2637.8(41068)	25.20	24.15	23.23
		2593 (40620)	25.08	24.05	23.04
		2548.3(40173)	25.04	23.99	22.92
		2503.5 (39725)	25.07	24.03	22.96
	36RB-Middle (19)	2682.5 (41515)	25.20	24.13	23.28
		2637.8(41068)	25.28	24.23	23.30
		2593 (40620)	25.14	24.10	23.10
		2548.3(40173)	25.01	23.96	22.96
		2503.5 (39725)	25.10	24.04	23.01
	36RB-Low (0)	2682.5 (41515)	25.16	24.11	23.26
		2637.8(41068)	25.30	24.26	23.32
		2593 (40620)	25.17	24.13	23.16
		2548.3(40173)	25.01	23.96	22.95

		2503.5 (39725)	25.07	24.01	23.01
	75RB (0)	2682.5 (41515)	25.18	24.15	23.22
		2637.8(41068)	25.23	24.19	23.34
		2593 (40620)	25.12	24.09	23.08
		2548.3(40173)	25.03	23.99	22.99
		2503.5 (39725)	25.08	24.04	23.08
20MHz	1RB-High (99)	2680 (41490)	25.72	24.96	24.06
		2636.5(41055)	25.73	25.00	24.00
		2593 (40620)	25.64	24.91	23.95
		2549.5(40185)	25.66	24.89	23.85
		2506 (39750)	25.68	24.90	23.86
	1RB-Middle (50)	2680 (41490)	25.94	25.16	24.27
		2636.5(41055)	26.10	25.32	24.35
		2593 (40620)	25.96	25.18	24.22
		2549.5(40185)	25.87	25.12	24.03
		2506 (39750)	25.96	25.20	24.10
	1RB-Low (0)	2680 (41490)	25.70	24.98	24.01
		2636.5(41055)	25.91	25.19	24.23
		2593 (40620)	25.82	25.11	24.11
		2549.5(40185)	25.61	24.84	23.76
		2506 (39750)	25.76	25.01	23.95
	50RB-High (50)	2680 (41490)	25.14	24.10	23.21
		2636.5(41055)	25.23	24.16	23.23
		2593 (40620)	25.06	24.01	23.10
		2549.5(40185)	24.98	23.93	22.93
		2506 (39750)	25.05	24.02	23.00
	50RB-Middle (25)	2680 (41490)	25.17	24.12	23.22
		2636.5(41055)	25.30	24.28	23.35
		2593 (40620)	25.16	24.11	23.14
		2549.5(40185)	24.99	23.98	22.95
		2506 (39750)	25.09	24.07	23.04
	50RB-Low (0)	2680 (41490)	25.16	24.11	23.20
		2636.5(41055)	25.33	24.28	23.34
		2593 (40620)	25.22	24.17	23.21
		2549.5(40185)	24.98	23.95	22.94
		2506 (39750)	25.05	24.02	22.99
	100RB (0)	2680 (41490)	25.20	24.15	23.17
		2636.5(41055)	25.30	24.31	23.31
		2593 (40620)	25.20	24.11	23.17
		2549.5(40185)	24.99	23.99	22.93
		2506 (39750)	25.10	24.07	23.02

LTE B41(PC2) Power level B1

Band 41 (PC2)-Power level B1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm) QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5 (41565)	21.95	22.22	22.24
		2640.3(41093)	21.92	22.21	22.16
		2593 (40620)	21.82	22.10	22.02
		2545.8(40148)	21.65	21.92	21.89
		2498.5 (39675)	21.78	22.05	22.01
	1RB-Middle (12)	2687.5 (41565)	22.02	22.31	22.31
		2640.3(41093)	22.08	22.31	22.25
		2593 (40620)	21.94	22.18	22.17
		2545.8(40148)	21.74	21.95	21.97
		2498.5 (39675)	21.85	22.11	22.08
	1RB-Low (0)	2687.5 (41565)	21.98	22.32	22.24
		2640.3(41093)	21.99	22.28	22.26
		2593 (40620)	21.83	22.15	22.07
		2545.8(40148)	21.60	21.92	21.95
		2498.5 (39675)	21.76	22.05	21.99
	12RB-High (13)	2687.5 (41565)	22.18	22.13	22.19
		2640.3(41093)	22.14	22.09	22.15
		2593 (40620)	22.00	21.96	21.96
		2545.8(40148)	21.79	21.74	21.76
		2498.5 (39675)	21.92	21.86	21.87
	12RB-Middle (6)	2687.5 (41565)	22.23	22.19	22.23
		2640.3(41093)	22.22	22.10	22.12
		2593 (40620)	22.08	22.01	22.03
		2545.8(40148)	21.83	21.77	21.80
		2498.5 (39675)	21.98	21.94	21.93
	12RB-Low (0)	2687.5 (41565)	22.20	22.12	22.18
		2640.3(41093)	22.17	22.14	22.13
		2593 (40620)	22.03	21.98	21.98
		2545.8(40148)	21.80	21.74	21.75
		2498.5 (39675)	21.95	21.90	21.88
	25RB (0)	2687.5 (41565)	22.30	22.25	22.26
		2640.3(41093)	22.16	22.23	22.22
		2593 (40620)	22.02	22.08	22.07
		2545.8(40148)	21.80	21.88	21.86
		2498.5 (39675)	21.94	21.98	21.97
10MHz	1RB-High (49)	2685 (41540)	22.10	22.28	22.30

		2639(41080)	21.98	22.24	22.22
		2593 (40620)	21.91	22.08	22.10
		2547(40160)	21.75	21.89	21.98
		2501 (39700)	21.78	21.99	22.04
	1RB-Middle (24)	2685 (41540)	22.14	22.26	22.37
		2639(41080)	22.15	22.34	22.32
		2593 (40620)	22.00	22.13	22.25
		2547(40160)	21.79	21.92	22.03
		2501 (39700)	21.91	22.08	22.17
	1RB-Low (0)	2685 (41540)	22.01	22.21	22.27
		2639(41080)	22.15	22.35	22.42
		2593 (40620)	22.02	22.15	22.14
		2547(40160)	21.71	21.84	21.97
		2501 (39700)	21.82	22.02	22.04
	25RB-High (25)	2685 (41540)	22.27	22.25	22.29
		2639(41080)	22.23	22.21	22.23
		2593 (40620)	22.08	22.01	22.07
		2547(40160)	21.91	21.81	21.91
		2501 (39700)	21.97	21.95	22.00
	25RB-Middle (12)	2685 (41540)	22.24	22.21	22.27
		2639(41080)	22.29	22.25	22.28
		2593 (40620)	22.10	22.07	22.03
		2547(40160)	21.80	21.84	21.90
		2501 (39700)	21.97	21.93	21.99
	25RB-Low (0)	2685 (41540)	22.26	22.21	22.28
		2639(41080)	22.31	22.29	22.33
		2593 (40620)	22.14	22.04	22.12
		2547(40160)	21.82	21.84	21.87
		2501 (39700)	21.98	21.95	21.99
	50RB (0)	2685 (41540)	22.28	22.26	22.29
		2639(41080)	22.26	22.27	22.24
		2593 (40620)	22.11	22.11	22.07
		2547(40160)	21.82	21.85	21.86
		2501 (39700)	21.94	21.95	21.98
15MHz	1RB-High (74)	2682.5 (41515)	22.12	22.27	22.20
		2637.8(41068)	22.02	22.22	22.13
		2593 (40620)	21.98	22.15	21.98
		2548.3(40173)	21.78	22.04	21.80
		2503.5 (39725)	21.83	22.02	21.97
	1RB-Middle (37)	2682.5 (41515)	22.16	22.39	22.22
		2637.8(41068)	22.19	22.41	22.37
		2593 (40620)	22.04	22.33	22.14

		2548.3(40173)	21.91	22.11	21.96
		2503.5 (39725)	22.01	22.20	22.12
	1RB-Low (0)	2682.5 (41515)	22.12	22.25	22.14
		2637.8(41068)	22.17	22.42	22.31
		2593 (40620)	22.10	22.23	22.16
		2548.3(40173)	21.74	21.95	21.85
		2503.5 (39725)	21.92	22.12	22.01
	36RB-High (38)	2682.5 (41515)	22.17	22.16	22.13
		2637.8(41068)	22.16	22.16	22.13
		2593 (40620)	22.01	22.02	21.95
		2548.3(40173)	21.87	21.86	21.82
		2503.5 (39725)	21.91	21.92	21.88
	36RB-Middle (19)	2682.5 (41515)	22.17	22.19	22.15
		2637.8(41068)	22.23	22.26	22.22
		2593 (40620)	22.06	22.06	21.99
		2548.3(40173)	21.86	21.86	21.83
		2503.5 (39725)	21.95	21.97	21.96
	36RB-Low (0)	2682.5 (41515)	22.15	22.15	22.11
		2637.8(41068)	22.27	22.26	22.22
		2593 (40620)	22.08	22.09	22.01
		2548.3(40173)	21.84	21.83	21.87
		2503.5 (39725)	21.94	21.93	21.98
	75RB (0)	2682.5 (41515)	22.17	22.20	22.15
		2637.8(41068)	22.20	22.22	22.20
		2593 (40620)	22.03	22.05	22.03
		2548.3(40173)	21.89	21.88	21.86
		2503.5 (39725)	21.92	21.96	21.95
20MHz	1RB-High (99)	2680 (41490)	21.93	22.15	22.13
		2636.5(41055)	21.84	22.11	22.05
		2593 (40620)	21.70	22.00	21.91
		2549.5(40185)	21.63	21.90	21.85
		2506 (39750)	21.59	21.89	21.93
	1RB-Middle (50)	2680 (41490)	22.06	22.33	22.31
		2636.5(41055)	22.20	22.42	22.43
		2593 (40620)	22.00	22.26	22.22
		2549.5(40185)	21.83	22.08	22.05
		2506 (39750)	21.92	22.19	22.16
	1RB-Low (0)	2680 (41490)	21.81	22.09	22.08
		2636.5(41055)	22.04	22.34	22.27
		2593 (40620)	21.89	22.13	22.09
		2549.5(40185)	21.53	21.83	21.79
		2506 (39750)	21.74	22.00	21.98

	50RB-High (50)	2680 (41490)	22.08	22.13	22.05
		2636.5(41055)	22.14	22.16	22.15
		2593 (40620)	21.94	21.98	21.95
		2549.5(40185)	21.84	21.86	21.81
		2506 (39750)	21.87	21.91	21.89
	50RB-Middle (25)	2680 (41490)	22.13	22.15	22.03
		2636.5(41055)	22.24	22.28	22.26
		2593 (40620)	22.03	22.08	22.04
		2549.5(40185)	21.87	21.90	21.86
		2506 (39750)	21.94	21.98	21.96
	50RB-Low (0)	2680 (41490)	22.07	22.13	22.08
		2636.5(41055)	22.23	22.27	22.24
		2593 (40620)	22.10	22.14	22.09
		2549.5(40185)	21.83	21.86	21.82
		2506 (39750)	21.91	21.93	21.92
	100RB (0)	2680 (41490)	22.09	22.14	22.07
		2636.5(41055)	22.18	22.25	22.17
		2593 (40620)	22.04	22.11	22.01
		2549.5(40185)	21.81	21.88	21.78
		2506 (39750)	21.90	21.96	21.91

LTE B41(PC2) Power level C1

Band 41 (PC2)-Power level C1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5 (41565)	21.20	21.51	21.70
		2640.3(41093)	21.09	21.35	21.45
		2593 (40620)	20.85	21.22	21.38
		2545.8(40148)	20.60	20.91	21.06
		2498.5 (39675)	20.82	21.14	21.28
	1RB-Middle (12)	2687.5 (41565)	21.21	21.56	21.68
		2640.3(41093)	21.14	21.48	21.60
		2593 (40620)	21.03	21.27	21.43
		2545.8(40148)	20.70	21.02	21.18
		2498.5 (39675)	20.92	21.24	21.40
	1RB-Low (0)	2687.5 (41565)	21.11	21.46	21.59
		2640.3(41093)	21.07	21.40	21.52
		2593 (40620)	20.91	21.26	21.40
		2545.8(40148)	20.60	20.92	21.09
		2498.5 (39675)	20.83	21.17	21.32

	12RB-High (13)	2687.5 (41565)	21.43	21.42	21.52
		2640.3(41093)	21.25	21.23	21.36
		2593 (40620)	21.08	21.01	21.32
		2545.8(40148)	20.75	20.74	20.92
		2498.5 (39675)	21.04	21.00	21.14
	12RB-Middle (6)	2687.5 (41565)	21.37	21.41	21.57
		2640.3(41093)	21.30	21.30	21.42
		2593 (40620)	21.17	21.15	21.39
		2545.8(40148)	20.86	20.81	21.00
		2498.5 (39675)	21.08	20.98	21.23
	12RB-Low (0)	2687.5 (41565)	21.40	21.38	21.58
		2640.3(41093)	21.30	21.25	21.38
		2593 (40620)	21.10	21.19	21.28
		2545.8(40148)	20.83	20.77	20.96
		2498.5 (39675)	21.04	21.00	21.16
	25RB (0)	2687.5 (41565)	21.39	21.48	21.61
		2640.3(41093)	21.24	21.36	21.46
		2593 (40620)	21.12	21.20	21.41
		2545.8(40148)	20.79	20.88	21.03
		2498.5 (39675)	21.09	21.10	21.23
10MHz	1RB-High (49)	2685 (41540)	21.27	21.47	21.66
		2639(41080)	21.09	21.30	21.48
		2593 (40620)	20.96	21.18	21.50
		2547(40160)	20.73	20.89	21.15
		2501 (39700)	20.85	21.03	21.30
	1RB-Middle (24)	2685 (41540)	21.36	21.54	21.73
		2639(41080)	21.29	21.49	21.67
		2593 (40620)	21.13	21.22	21.50
		2547(40160)	20.86	21.01	21.28
		2501 (39700)	21.04	21.21	21.45
	1RB-Low (0)	2685 (41540)	21.22	21.44	21.63
		2639(41080)	21.22	21.41	21.67
		2593 (40620)	21.04	21.17	21.54
		2547(40160)	20.68	20.87	21.01
		2501 (39700)	20.93	21.17	21.42
	25RB-High (25)	2685 (41540)	21.46	21.47	21.58
		2639(41080)	21.33	21.33	21.45
		2593 (40620)	21.17	21.20	21.37
		2547(40160)	20.88	20.83	21.08
		2501 (39700)	21.10	21.07	21.27
	25RB-Middle (12)	2685 (41540)	21.44	21.48	21.56
		2639(41080)	21.39	21.37	21.48

		2593 (40620)	21.20	21.12	21.36
		2547(40160)	20.87	20.88	21.07
		2501 (39700)	21.11	21.08	21.25
	25RB-Low (0)	2685 (41540)	21.47	21.45	21.56
		2639(41080)	21.38	21.42	21.50
		2593 (40620)	21.21	21.23	21.40
		2547(40160)	20.92	20.90	21.10
		2501 (39700)	21.12	21.09	21.30
	50RB (0)	2685 (41540)	21.46	21.48	21.55
		2639(41080)	21.36	21.37	21.43
		2593 (40620)	21.16	21.19	21.35
		2547(40160)	20.87	20.87	21.01
		2501 (39700)	21.09	21.10	21.22
15MHz	1RB-High (74)	2682.5 (41515)	21.30	21.56	21.60
		2637.8(41068)	21.14	21.40	21.36
		2593 (40620)	21.00	21.28	21.40
		2548.3(40173)	20.74	21.03	21.05
		2503.5 (39725)	20.88	21.15	21.19
	1RB-Middle (37)	2682.5 (41515)	21.34	21.61	21.59
		2637.8(41068)	21.34	21.58	21.40
		2593 (40620)	21.11	21.45	21.49
		2548.3(40173)	20.89	21.09	21.11
		2503.5 (39725)	21.04	21.32	21.33
	1RB-Low (0)	2682.5 (41515)	21.18	21.45	21.44
		2637.8(41068)	21.27	21.51	21.50
		2593 (40620)	21.09	21.38	21.40
		2548.3(40173)	20.75	21.04	21.08
		2503.5 (39725)	20.98	21.27	21.31
	36RB-High (38)	2682.5 (41515)	21.36	21.39	21.42
		2637.8(41068)	21.25	21.27	21.25
		2593 (40620)	21.09	21.14	21.20
		2548.3(40173)	20.85	20.89	20.98
		2503.5 (39725)	21.00	21.02	21.06
	36RB-Middle (19)	2682.5 (41515)	21.33	21.38	21.36
		2637.8(41068)	21.28	21.35	21.32
		2593 (40620)	21.12	21.16	21.25
		2548.3(40173)	20.86	20.87	20.95
		2503.5 (39725)	21.02	21.05	21.11
	36RB-Low (0)	2682.5 (41515)	21.29	21.34	21.32
		2637.8(41068)	21.33	21.36	21.32
		2593 (40620)	21.15	21.19	21.24
		2548.3(40173)	20.84	20.89	20.92

		2503.5 (39725)	21.04	21.08	21.13
	75RB (0)	2682.5 (41515)	21.34	21.38	21.43
		2637.8(41068)	21.28	21.34	21.37
		2593 (40620)	21.11	21.17	21.28
		2548.3(40173)	20.85	20.89	20.95
		2503.5 (39725)	21.00	21.05	21.14
20MHz	1RB-High (99)	2680 (41490)	21.14	21.42	21.46
		2636.5(41055)	20.95	21.32	21.28
		2593 (40620)	20.77	21.08	21.20
		2549.5(40185)	20.61	20.92	21.01
		2506 (39750)	20.64	20.95	21.05
	1RB-Middle (50)	2680 (41490)	21.20	21.46	21.46
		2636.5(41055)	21.25	21.58	21.57
		2593 (40620)	21.03	21.40	21.33
		2549.5(40185)	20.78	21.02	21.09
		2506 (39750)	20.95	21.26	21.37
	1RB-Low (0)	2680 (41490)	21.00	21.29	21.33
		2636.5(41055)	21.07	21.41	21.43
		2593 (40620)	20.89	21.22	21.31
		2549.5(40185)	20.59	20.89	21.01
		2506 (39750)	20.84	21.16	21.21
	50RB-High (50)	2680 (41490)	21.25	21.30	21.34
		2636.5(41055)	21.20	21.28	21.26
		2593 (40620)	21.01	21.07	21.18
		2549.5(40185)	20.79	20.82	20.92
		2506 (39750)	20.91	20.94	21.04
	50RB-Middle (25)	2680 (41490)	21.29	21.35	21.37
		2636.5(41055)	21.32	21.36	21.35
		2593 (40620)	21.10	21.19	21.28
		2549.5(40185)	20.81	20.88	20.95
		2506 (39750)	20.99	21.05	21.12
	50RB-Low (0)	2680 (41490)	21.23	21.29	21.41
		2636.5(41055)	21.30	21.37	21.35
		2593 (40620)	21.08	21.14	21.25
		2549.5(40185)	20.83	20.88	20.96
		2506 (39750)	21.02	21.05	21.13
	100RB (0)	2680 (41490)	21.26	21.34	21.31
		2636.5(41055)	21.28	21.36	21.30
		2593 (40620)	21.04	21.11	21.18
		2549.5(40185)	20.81	20.88	20.95
		2506 (39750)	20.98	21.06	21.08

LTE B66 Power Level A1

Band 66-Power level A1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm) QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	24.16	23.28	22.29
		1745 (132322)	24.25	23.35	22.40
		1710.7 (131979)	24.14	23.28	20.35
	1RB-Middle (3)	1779.3 (132665)	24.26	23.40	22.41
		1745 (132322)	24.35	23.41	22.47
		1710.7 (131979)	24.25	23.28	22.42
	1RB-Low (0)	1779.3 (132665)	24.15	23.28	22.35
		1745 (132322)	24.24	23.37	22.41
		1710.7 (131979)	24.14	23.26	22.32
	3RB-High (3)	1779.3 (132665)	24.25	23.21	22.24
		1745 (132322)	24.35	23.32	22.32
		1710.7 (131979)	24.25	23.26	22.21
	3RB-Middle (1)	1779.3 (132665)	24.30	23.30	22.27
		1745 (132322)	24.43	23.36	22.35
		1710.7 (131979)	24.30	23.27	22.20
	3RB-Low (0)	1779.3 (132665)	24.29	23.24	22.24
		1745 (132322)	24.35	23.25	22.30
		1710.7 (131979)	24.26	23.22	22.17
	6RB (0)	1779.3 (132665)	23.28	22.25	21.26
		1745 (132322)	23.38	22.35	21.34
		1710.7 (131979)	23.28	22.24	21.29
3MHz	1RB-High (14)	1778.5 (132657)	24.26	23.41	22.48
		1745 (132322)	24.35	23.55	22.50
		1711.5 (131987)	24.26	23.45	22.41
	1RB-Middle (7)	1778.5 (132657)	24.36	23.60	22.64
		1745 (132322)	24.53	23.67	22.69
		1711.5 (131987)	24.41	23.50	22.53
	1RB-Low (0)	1778.5 (132657)	24.25	23.34	22.42
		1745 (132322)	24.36	23.51	22.48
		1711.5 (131987)	24.30	23.42	22.40
	8RB-High (7)	1778.5 (132657)	23.30	22.30	21.21
		1745 (132322)	23.38	22.38	21.33
		1711.5 (131987)	23.30	22.29	21.24
	8RB-Middle (4)	1778.5 (132657)	23.34	22.36	21.28
		1745 (132322)	23.43	22.44	21.35
		1711.5 (131987)	23.34	22.35	21.28

	8RB-Low (0)	1778.5 (132657)	23.32	22.34	21.23
		1745 (132322)	23.42	22.40	21.33
		1711.5 (131987)	23.32	22.30	21.25
	15RB (0)	1778.5 (132657)	23.30	22.26	21.27
		1745 (132322)	23.41	22.34	21.34
		1711.5 (131987)	23.32	22.23	21.25
5MHz	1RB-High (24)	1777.5 (132647)	24.17	23.40	22.33
		1745 (132322)	24.27	23.51	22.42
		1712.5 (131997)	24.14	23.35	22.33
	1RB-Middle (12)	1777.5 (132647)	24.36	23.63	22.57
		1745 (132322)	24.48	23.72	22.71
		1712.5 (131997)	24.45	23.57	22.64
	1RB-Low (0)	1777.5 (132647)	24.19	23.40	22.32
		1745 (132322)	24.26	23.47	22.40
		1712.5 (131997)	24.17	23.36	22.32
	12RB-High (13)	1777.5 (132647)	23.29	22.28	21.23
		1745 (132322)	23.40	22.39	21.33
		1712.5 (131997)	23.33	22.31	21.25
	12RB-Middle (6)	1777.5 (132647)	23.36	22.37	21.30
		1745 (132322)	23.47	22.45	21.39
		1712.5 (131997)	23.34	22.32	21.27
	12RB-Low (0)	1777.5 (132647)	23.30	22.31	21.25
		1745 (132322)	23.39	22.36	21.35
		1712.5 (131997)	23.28	22.30	21.21
	25RB (0)	1777.5 (132647)	23.33	22.28	21.27
		1745 (132322)	23.40	22.37	21.37
		1712.5 (131997)	23.31	22.29	21.25
10MHz	1RB-High (49)	1775 (132622)	24.26	23.38	22.44
		1745 (132322)	24.35	23.47	22.50
		1715 (132022)	24.30	23.35	22.44
	1RB-Middle (24)	1775 (132622)	24.39	23.54	22.56
		1745 (132322)	24.46	23.58	22.61
		1715 (132022)	24.37	23.47	22.57
	1RB-Low (0)	1775 (132622)	24.31	23.39	22.46
		1745 (132322)	24.34	23.44	22.49
		1715 (132022)	24.25	23.35	22.43
	25RB-High (25)	1775 (132622)	23.40	22.35	21.34
		1745 (132322)	23.52	22.46	21.43
		1715 (132022)	23.42	22.37	21.36
	25RB-Middle (12)	1775 (132622)	23.38	22.37	21.32
		1745 (132322)	23.50	22.47	21.43
		1715 (132022)	23.38	22.36	21.32

	25RB-Low (0)	1775 (132622)	23.42	22.39	21.35
		1745 (132322)	23.48	22.44	21.40
		1715 (132022)	23.34	22.31	21.28
	50RB (0)	1775 (132622)	23.44	22.38	21.39
		1745 (132322)	23.53	22.45	21.45
		1715 (132022)	23.43	22.37	21.36
15MHz	1RB-High (74)	1772.5 (132597)	24.26	23.47	22.45
		1745 (132322)	24.32	23.49	22.51
		1717.5 (132047)	24.30	23.40	22.45
	1RB-Middle (37)	1772.5 (132597)	24.41	23.60	22.66
		1745 (132322)	24.56	23.63	22.67
		1717.5 (132047)	24.44	23.45	22.53
	1RB-Low (0)	1772.5 (132597)	24.28	23.46	22.44
		1745 (132322)	24.32	23.47	22.46
		1717.5 (132047)	24.19	23.43	22.37
	36RB-High (38)	1772.5 (132597)	23.40	22.37	21.30
		1745 (132322)	23.52	22.43	21.43
		1717.5 (132047)	23.45	22.38	21.38
	36RB-Middle (19)	1772.5 (132597)	23.42	22.35	21.35
		1745 (132322)	23.52	22.45	21.42
		1717.5 (132047)	23.39	22.33	21.31
	36RB-Low (0)	1772.5 (132597)	23.42	22.36	21.35
		1745 (132322)	23.50	22.40	21.41
		1717.5 (132047)	23.36	22.28	21.25
	75RB (0)	1772.5 (132597)	23.44	22.37	21.36
		1745 (132322)	23.50	22.44	21.42
		1717.5 (132047)	23.39	22.33	21.31
20MHz	1RB-High (99)	1770 (132572)	24.21	23.41	22.38
		1745 (132322)	24.20	23.45	22.40
		1720 (132072)	24.28	23.52	22.43
	1RB-Middle (50)	1770 (132572)	24.39	23.60	22.57
		1745 (132322)	24.47	23.69	22.61
		1720 (132072)	24.36	23.60	22.52
	1RB-Low (0)	1770 (132572)	24.19	23.36	22.37
		1745 (132322)	24.22	23.41	22.40
		1720 (132072)	24.13	23.34	22.26
	50RB-High (50)	1770 (132572)	23.40	22.37	21.33
		1745 (132322)	23.52	22.46	21.45
		1720 (132072)	23.49	22.40	21.42
	50RB-Middle (25)	1770 (132572)	23.47	22.42	21.39
		1745 (132322)	23.54	22.47	21.47
		1720 (132072)	23.40	22.35	21.31

	50RB-Low (0)	1770 (132572)	23.45	22.36	21.38
		1745 (132322)	23.49	22.42	21.41
		1720 (132072)	23.33	22.26	21.25
	100RB (0)	1770 (132572)	23.41	22.38	21.36
		1745 (132322)	23.45	22.45	21.43
		1720 (132072)	23.35	22.32	21.32

LTE B66 Power Level B1

Band 66-Power level B1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	21.12	21.31	21.28
		1745 (132322)	21.20	21.35	21.34
		1710.7 (131979)	21.06	21.26	21.22
	1RB-Middle (3)	1779.3 (132665)	21.24	21.40	21.36
		1745 (132322)	21.33	21.43	21.48
		1710.7 (131979)	21.18	21.39	21.33
	1RB-Low (0)	1779.3 (132665)	21.10	21.31	21.26
		1745 (132322)	21.19	21.37	21.36
		1710.7 (131979)	21.06	21.32	21.24
	3RB-High (3)	1779.3 (132665)	21.25	21.23	21.14
		1745 (132322)	21.32	21.30	21.31
		1710.7 (131979)	21.20	21.25	21.12
	3RB-Middle (1)	1779.3 (132665)	21.25	21.29	21.20
		1745 (132322)	21.36	21.34	21.27
		1710.7 (131979)	21.21	21.28	21.18
	3RB-Low (0)	1779.3 (132665)	21.19	21.21	21.15
		1745 (132322)	21.29	21.32	21.22
		1710.7 (131979)	21.17	21.17	21.09
	6RB (0)	1779.3 (132665)	21.21	21.19	21.17
		1745 (132322)	21.31	21.29	21.25
		1710.7 (131979)	21.14	21.20	21.14
3MHz	1RB-High (14)	1778.5 (132657)	21.18	21.50	21.33
		1745 (132322)	21.28	21.59	21.43
		1711.5 (131987)	21.22	21.36	21.34
	1RB-Middle (7)	1778.5 (132657)	21.36	21.57	21.55
		1745 (132322)	21.52	21.62	21.62
		1711.5 (131987)	21.35	21.53	21.50
	1RB-Low (0)	1778.5 (132657)	21.18	21.48	21.33
		1745 (132322)	21.30	21.56	21.43
		1711.5 (131987)	21.19	21.43	21.34

	8RB-High (7)	1778.5 (132657)	21.22	21.25	21.15
		1745 (132322)	21.31	21.34	21.26
		1711.5 (131987)	21.17	21.22	21.12
	8RB-Middle (4)	1778.5 (132657)	21.27	21.29	21.18
		1745 (132322)	21.35	21.39	21.30
		1711.5 (131987)	21.25	21.29	21.17
	8RB-Low (0)	1778.5 (132657)	21.20	21.26	21.14
		1745 (132322)	21.31	21.34	21.23
		1711.5 (131987)	21.20	21.28	21.15
	15RB (0)	1778.5 (132657)	21.22	21.20	21.17
		1745 (132322)	21.32	21.31	21.25
		1711.5 (131987)	21.18	21.17	21.13
5MHz	1RB-High (24)	1777.5 (132647)	21.12	21.45	21.27
		1745 (132322)	21.17	21.50	21.32
		1712.5 (131997)	21.06	21.41	21.22
	1RB-Middle (12)	1777.5 (132647)	21.40	21.66	21.53
		1745 (132322)	21.37	21.67	21.64
		1712.5 (131997)	21.39	21.61	21.52
	1RB-Low (0)	1777.5 (132647)	21.14	21.42	21.30
		1745 (132322)	21.20	21.50	21.34
		1712.5 (131997)	21.08	21.45	21.24
	12RB-High (13)	1777.5 (132647)	21.22	21.27	21.15
		1745 (132322)	21.32	21.36	21.23
		1712.5 (131997)	21.20	21.23	21.16
	12RB-Middle (6)	1777.5 (132647)	21.28	21.29	21.20
		1745 (132322)	21.37	21.38	21.28
		1712.5 (131997)	21.23	21.28	21.19
	12RB-Low (0)	1777.5 (132647)	21.23	21.23	21.16
		1745 (132322)	21.32	21.32	21.23
		1712.5 (131997)	21.16	21.17	21.13
	25RB (0)	1777.5 (132647)	21.21	21.26	21.17
		1745 (132322)	21.33	21.32	21.25
		1712.5 (131997)	21.21	21.20	21.15
10MHz	1RB-High (49)	1775 (132622)	21.20	21.42	21.38
		1745 (132322)	21.29	21.51	21.42
		1715 (132022)	21.18	21.27	21.33
	1RB-Middle (24)	1775 (132622)	21.33	21.54	21.44
		1745 (132322)	21.42	21.64	21.55
		1715 (132022)	21.31	21.49	21.47
	1RB-Low (0)	1775 (132622)	21.26	21.44	21.36
		1745 (132322)	21.27	21.48	21.37
		1715 (132022)	21.15	21.32	21.32

	25RB-High (25)	1775 (132622)	21.30	21.29	21.25
		1745 (132322)	21.42	21.38	21.33
		1715 (132022)	21.28	21.28	21.24
	25RB-Middle (12)	1775 (132622)	21.30	21.30	21.25
		1745 (132322)	21.41	21.40	21.34
		1715 (132022)	21.25	21.25	21.20
	25RB-Low (0)	1775 (132622)	21.35	21.32	21.28
		1745 (132322)	21.41	21.37	21.32
		1715 (132022)	21.23	21.22	21.15
	50RB (0)	1775 (132622)	21.33	21.33	21.27
		1745 (132322)	21.43	21.41	21.34
		1715 (132022)	21.27	21.26	21.23
15MHz	1RB-High (74)	1772.5 (132597)	21.22	21.48	21.34
		1745 (132322)	21.28	21.50	21.40
		1717.5 (132047)	21.21	21.34	21.40
	1RB-Middle (37)	1772.5 (132597)	21.39	21.65	21.55
		1745 (132322)	21.50	21.77	21.66
		1717.5 (132047)	21.35	21.61	21.54
	1RB-Low (0)	1772.5 (132597)	21.21	21.41	21.36
		1745 (132322)	21.25	21.55	21.39
		1717.5 (132047)	21.13	21.45	21.30
	36RB-High (38)	1772.5 (132597)	21.35	21.28	21.24
		1745 (132322)	21.42	21.40	21.32
		1717.5 (132047)	21.32	21.30	21.26
	36RB-Middle (19)	1772.5 (132597)	21.33	21.30	21.22
		1745 (132322)	21.42	21.41	21.31
		1717.5 (132047)	21.26	21.24	21.19
	36RB-Low (0)	1772.5 (132597)	21.35	21.30	21.27
		1745 (132322)	21.39	21.36	21.28
		1717.5 (132047)	21.24	21.19	21.15
	75RB (0)	1772.5 (132597)	21.35	21.35	21.27
		1745 (132322)	21.41	21.40	21.34
		1717.5 (132047)	21.27	21.25	21.21
20MHz	1RB-High (99)	1770 (132572)	21.13	21.47	21.29
		1745 (132322)	21.15	21.49	21.35
		1720 (132072)	21.20	21.50	21.37
	1RB-Middle (50)	1770 (132572)	21.38	21.57	21.55
		1745 (132322)	21.45	21.74	21.52
		1720 (132072)	21.31	21.63	21.43
	1RB-Low (0)	1770 (132572)	21.11	21.46	21.31
		1745 (132322)	21.15	21.42	21.29
		1720 (132072)	21.05	21.39	21.20

	50RB-High (50)	1770 (132572)	21.31	21.28	21.23
		1745 (132322)	21.42	21.40	21.34
		1720 (132072)	21.37	21.35	21.33
	50RB-Middle (25)	1770 (132572)	21.36	21.33	21.31
		1745 (132322)	21.44	21.42	21.37
		1720 (132072)	21.27	21.27	21.22
	50RB-Low (0)	1770 (132572)	21.35	21.30	21.27
		1745 (132322)	21.39	21.36	21.31
		1720 (132072)	21.19	21.17	21.12
	100RB (0)	1770 (132572)	21.30	21.29	21.26
		1745 (132322)	21.36	21.36	21.31
		1720 (132072)	21.26	21.27	21.22

LTE B66 Power Level C1

Band 66-Power level C1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	20.11	20.31	20.25
		1745 (132322)	20.17	20.36	20.36
		1710.7 (131979)	20.05	20.23	20.25
	1RB-Middle (3)	1779.3 (132665)	20.21	20.39	20.41
		1745 (132322)	20.32	20.51	20.51
		1710.7 (131979)	20.24	20.39	20.32
	1RB-Low (0)	1779.3 (132665)	20.10	20.30	20.30
		1745 (132322)	20.16	20.36	20.39
		1710.7 (131979)	20.05	20.24	20.27
	3RB-High (3)	1779.3 (132665)	20.21	20.24	20.20
		1745 (132322)	20.27	20.31	20.25
		1710.7 (131979)	20.17	20.20	20.12
	3RB-Middle (1)	1779.3 (132665)	20.22	20.30	20.21
		1745 (132322)	20.34	20.38	20.33
		1710.7 (131979)	20.20	20.26	20.18
	3RB-Low (0)	1779.3 (132665)	20.20	20.17	20.17
		1745 (132322)	20.27	20.29	20.27
		1710.7 (131979)	20.18	20.21	20.13
	6RB (0)	1779.3 (132665)	20.17	20.18	20.20
		1745 (132322)	20.25	20.32	20.22
		1710.7 (131979)	20.17	20.19	20.18
3MHz	1RB-High (14)	1778.5 (132657)	20.15	20.47	20.32
		1745 (132322)	20.24	20.51	20.39
		1711.5 (131987)	20.15	20.50	20.35

	1RB-Middle (7)	1778.5 (132657)	20.34	20.62	20.50
		1745 (132322)	20.40	20.60	20.53
		1711.5 (131987)	20.31	20.51	20.43
	1RB-Low (0)	1778.5 (132657)	20.12	20.33	20.24
		1745 (132322)	20.23	20.52	20.39
		1711.5 (131987)	20.13	20.38	20.30
	8RB-High (7)	1778.5 (132657)	20.17	20.20	20.11
		1745 (132322)	20.24	20.29	20.19
		1711.5 (131987)	20.16	20.21	20.08
	8RB-Middle (4)	1778.5 (132657)	20.18	20.25	20.14
		1745 (132322)	20.29	20.32	20.23
		1711.5 (131987)	20.19	20.23	20.11
	8RB-Low (0)	1778.5 (132657)	20.17	20.24	20.12
		1745 (132322)	20.26	20.27	20.20
		1711.5 (131987)	20.14	20.16	20.10
	15RB (0)	1778.5 (132657)	20.16	20.15	20.13
		1745 (132322)	20.26	20.23	20.22
		1711.5 (131987)	20.16	20.12	20.09
5MHz	1RB-High (24)	1777.5 (132647)	20.11	20.42	20.21
		1745 (132322)	20.19	20.46	20.28
		1712.5 (131997)	20.08	20.37	20.23
	1RB-Middle (12)	1777.5 (132647)	20.35	20.59	20.42
		1745 (132322)	20.41	20.61	20.58
		1712.5 (131997)	20.37	20.63	20.47
	1RB-Low (0)	1777.5 (132647)	20.09	20.43	20.23
		1745 (132322)	20.16	20.45	20.30
		1712.5 (131997)	20.02	20.42	20.20
	12RB-High (13)	1777.5 (132647)	20.20	20.23	20.11
		1745 (132322)	20.29	20.31	20.20
		1712.5 (131997)	20.24	20.27	20.12
	12RB-Middle (6)	1777.5 (132647)	20.25	20.27	20.17
		1745 (132322)	20.34	20.40	20.24
		1712.5 (131997)	20.21	20.28	20.14
	12RB-Low (0)	1777.5 (132647)	20.18	20.21	20.09
		1745 (132322)	20.28	20.30	20.20
		1712.5 (131997)	20.14	20.16	20.05
	25RB (0)	1777.5 (132647)	20.21	20.21	20.11
		1745 (132322)	20.31	20.30	20.20
		1712.5 (131997)	20.17	20.20	20.09
10MHz	1RB-High (49)	1775 (132622)	20.09	20.21	20.31
		1745 (132322)	20.19	20.36	20.40
		1715 (132022)	20.10	20.28	20.36

	1RB-Middle (24)	1775 (132622)	20.21	20.42	20.42
		1745 (132322)	20.31	20.45	20.49
		1715 (132022)	20.16	20.40	20.42
	1RB-Low (0)	1775 (132622)	20.14	20.32	20.34
		1745 (132322)	20.16	20.31	20.34
		1715 (132022)	20.00	20.24	20.27
	25RB-High (25)	1775 (132622)	20.12	20.15	20.12
		1745 (132322)	20.26	20.27	20.25
		1715 (132022)	20.17	20.18	20.20
	25RB-Middle (12)	1775 (132622)	20.18	20.18	20.18
		1745 (132322)	20.27	20.26	20.27
		1715 (132022)	20.14	20.19	20.16
	25RB-Low (0)	1775 (132622)	20.19	20.19	20.16
		1745 (132322)	20.20	20.19	20.20
		1715 (132022)	20.07	20.10	20.10
	50RB (0)	1775 (132622)	20.16	20.15	20.18
		1745 (132322)	20.23	20.22	20.24
		1715 (132022)	20.15	20.16	20.19
15MHz	1RB-High (74)	1772.5 (132597)	20.06	20.41	20.28
		1745 (132322)	20.17	20.41	20.37
		1717.5 (132047)	20.12	20.39	20.35
	1RB-Middle (37)	1772.5 (132597)	20.30	20.48	20.56
		1745 (132322)	20.41	20.58	20.57
		1717.5 (132047)	20.28	20.44	20.51
	1RB-Low (0)	1772.5 (132597)	20.10	20.40	20.28
		1745 (132322)	20.10	20.39	20.30
		1717.5 (132047)	20.01	20.26	20.21
	36RB-High (38)	1772.5 (132597)	20.18	20.15	20.13
		1745 (132322)	20.31	20.27	20.27
		1717.5 (132047)	20.25	20.18	20.20
	36RB-Middle (19)	1772.5 (132597)	20.21	20.15	20.13
		1745 (132322)	20.27	20.24	20.23
		1717.5 (132047)	20.21	20.18	20.19
	36RB-Low (0)	1772.5 (132597)	20.21	20.20	20.18
		1745 (132322)	20.26	20.17	20.18
		1717.5 (132047)	20.12	20.09	20.10
	75RB (0)	1772.5 (132597)	20.18	20.17	20.18
		1745 (132322)	20.25	20.23	20.22
		1717.5 (132047)	20.18	20.16	20.18
20MHz	1RB-High (99)	1770 (132572)	20.05	20.35	20.26
		1745 (132322)	20.04	20.43	20.30
		1720 (132072)	20.11	20.34	20.29

	1RB-Middle (50)	1770 (132572)	20.26	20.55	20.42
		1745 (132322)	20.33	20.59	20.53
		1720 (132072)	20.27	20.54	20.46
	1RB-Low (0)	1770 (132572)	20.01	20.30	20.23
		1745 (132322)	20.03	20.30	20.23
		1720 (132072)	19.93	20.27	20.17
	50RB-High (50)	1770 (132572)	20.13	20.17	20.16
		1745 (132322)	20.24	20.23	20.25
		1720 (132072)	20.24	20.22	20.24
	50RB-Middle (25)	1770 (132572)	20.21	20.20	20.18
		1745 (132322)	20.26	20.26	20.26
		1720 (132072)	20.18	20.16	20.19
	50RB-Low (0)	1770 (132572)	20.20	20.19	20.21
		1745 (132322)	20.21	20.21	20.19
		1720 (132072)	20.10	20.07	20.10
	100RB (0)	1770 (132572)	20.15	20.17	20.14
		1745 (132322)	20.20	20.19	20.21
		1720 (132072)	20.12	20.15	20.14

LTE B71 Power Level A1

Band 71-Power level A1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm) QPSK	16QAM	64QAM
5MHz	1RB-High (24)	695.5 (133447)	21.99	22.37	22.10
		680.5 (133297)	21.88	22.21	21.95
		665.5 (133147)	21.77	22.06	21.88
	1RB-Middle (12)	695.5 (133447)	22.26	22.48	22.33
		680.5 (133297)	22.13	22.39	22.20
		665.5 (133147)	22.10	22.42	22.21
	1RB-Low (0)	695.5 (133447)	22.01	22.23	22.07
		680.5 (133297)	21.76	22.05	21.85
		665.5 (133147)	21.85	22.10	21.95
	12RB-High (13)	695.5 (133447)	22.07	22.09	20.94
		680.5 (133297)	21.97	21.99	20.86
		665.5 (133147)	21.97	21.99	20.86
	12RB-Middle (6)	695.5 (133447)	22.18	22.18	21.03
		680.5 (133297)	21.99	22.04	20.89
		665.5 (133147)	22.02	22.03	20.90
	12RB-Low (0)	695.5 (133447)	22.13	22.14	21.01
		680.5 (133297)	21.88	21.91	20.79
		665.5 (133147)	21.89	21.91	20.75

	25RB (0)	695.5 (133447)	22.11	22.12	21.00
		680.5 (133297)	21.94	21.95	20.84
		665.5 (133147)	21.92	21.91	20.79
10MHz	1RB-High (49)	693 (132422)	22.07	22.22	22.17
		680.5 (133297)	21.91	22.08	22.01
		668 (133172)	21.78	21.90	21.92
	1RB-Middle (24)	693 (132422)	22.20	22.29	22.25
		680.5 (133297)	22.05	22.13	22.16
		668 (133172)	21.96	22.14	22.05
	1RB-Low (0)	693 (132422)	22.03	22.21	22.11
		680.5 (133297)	21.84	22.01	21.91
		668 (133172)	21.94	21.99	22.02
	25RB-High (25)	693 (132422)	22.04	22.07	20.97
		680.5 (133297)	22.04	22.04	20.93
		668 (133172)	21.97	21.91	20.81
	25RB-Middle (12)	693 (132422)	22.14	22.12	21.04
		680.5 (133297)	21.95	21.98	20.84
		668 (133172)	21.96	21.94	20.81
	25RB-Low (0)	693 (132422)	22.15	22.14	21.05
		680.5 (133297)	21.95	21.92	20.84
		668 (133172)	21.89	21.86	20.75
	50RB (0)	693 (132422)	22.09	22.10	21.02
		680.5 (133297)	22.03	21.96	20.90
		668 (133172)	21.90	21.87	20.78
15MHz	1RB-High (74)	690.5 (133397)	22.05	22.27	22.17
		680.5 (133297)	21.97	22.11	22.09
		670.5 (133197)	21.77	21.98	21.91
	1RB-Middle (37)	690.5 (133397)	22.19	22.40	22.35
		680.5 (133297)	22.11	22.30	22.26
		670.5 (133197)	22.03	22.28	22.13
	1RB-Low (0)	690.5 (133397)	21.92	22.24	22.04
		680.5 (133297)	21.81	22.03	21.88
		670.5 (133197)	21.92	22.19	22.06
	36RB-High (38)	690.5 (133397)	22.13	22.10	21.01
		680.5 (133297)	22.02	22.02	20.93
		670.5 (133197)	21.92	21.88	20.79
	36RB-Middle (19)	690.5 (133397)	22.14	22.12	21.00
		680.5 (133297)	22.00	22.00	20.87
		670.5 (133197)	21.93	21.90	20.83
	36RB-Low (0)	690.5 (133397)	22.04	22.00	20.93
		680.5 (133297)	21.88	21.87	20.78
		670.5 (133197)	21.92	21.86	19.77

	75RB (0)	690.5 (133397)	22.09	22.05	20.96
		680.5 (133297)	21.98	21.97	20.87
		670.5 (133197)	21.92	21.92	20.81
20MHz	1RB-High (99)	688 (133372)	21.95	22.27	22.06
		683 (133322)	21.92	22.19	22.03
		673 (133222)	21.79	22.14	21.92
	1RB-Middle (50)	688 (133372)	22.14	22.37	22.28
		683 (133322)	22.10	22.39	22.21
		673 (133222)	21.94	22.22	21.97
	1RB-Low (0)	688 (133372)	21.76	22.04	21.83
		683 (133322)	21.74	22.10	21.81
		673 (133222)	21.86	22.12	21.94
	50RB-High (50)	688 (133372)	22.05	22.05	20.97
		683 (133322)	22.12	22.09	21.02
		673 (133222)	21.96	21.94	20.87
	50RB-Middle (25)	688 (133372)	22.08	22.07	20.99
		683 (133322)	22.03	22.04	20.92
		673 (133222)	21.88	21.87	20.79
	50RB-Low (0)	688 (133372)	22.03	22.01	20.94
		683 (133322)	21.90	21.87	20.78
		673 (133222)	21.83	21.79	20.74
	100RB (0)	688 (133372)	22.02	22.03	0.00
		683 (133322)	22.00	21.97	20.88
		673 (133222)	21.88	21.88	20.80

LTE B71 Power Level B1/C1

Band 71-Power level B1/C1					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1RB-High (24)	695.5 (133447)	23.92	23.22	22.18
		680.5 (133297)	23.76	23.03	22.07
		665.5 (133147)	23.66	22.92	21.95
	1RB-Middle (12)	695.5 (133447)	24.10	23.24	22.44
		680.5 (133297)	23.95	23.31	22.25
		665.5 (133147)	24.03	23.29	22.27
	1RB-Low (0)	695.5 (133447)	23.88	23.06	22.18
		680.5 (133297)	23.65	22.96	21.99
		665.5 (133147)	23.79	23.05	22.05
	12RB-High (13)	695.5 (133447)	23.00	22.05	21.05
		680.5 (133297)	22.96	21.94	20.97
		665.5 (133147)	22.95	21.91	20.92

	12RB-Middle (6)	695.5 (133447)	23.06	22.13	21.13
		680.5 (133297)	22.97	21.98	20.99
		665.5 (133147)	22.98	21.98	21.01
	12RB-Low (0)	695.5 (133447)	23.04	22.08	21.10
		680.5 (133297)	22.84	21.87	20.88
		665.5 (133147)	22.83	21.85	20.86
	25RB (0)	695.5 (133447)	23.04	22.07	21.10
		680.5 (133297)	22.92	21.91	20.92
		665.5 (133147)	22.90	21.88	20.92
10MHz	1RB-High (49)	693 (132422)	23.97	23.07	22.29
		680.5 (133297)	23.82	23.01	22.14
		668 (133172)	23.68	22.90	22.00
	1RB-Middle (24)	693 (132422)	24.04	23.14	22.32
		680.5 (133297)	23.93	23.15	22.24
		668 (133172)	23.90	23.07	22.16
	1RB-Low (0)	693 (132422)	23.92	23.08	22.22
		680.5 (133297)	23.73	22.97	22.06
		668 (133172)	23.87	22.93	22.12
	25RB-High (25)	693 (132422)	22.98	22.00	21.05
		680.5 (133297)	23.00	21.99	21.02
		668 (133172)	22.93	21.88	20.90
	25RB-Middle (12)	693 (132422)	23.06	22.11	21.14
		680.5 (133297)	22.96	21.91	20.96
		668 (133172)	22.92	21.89	20.92
	25RB-Low (0)	693 (132422)	23.08	22.09	21.13
		680.5 (133297)	22.91	21.88	20.90
		668 (133172)	22.85	21.85	20.85
	50RB (0)	693 (132422)	23.07	22.05	21.11
		680.5 (133297)	22.97	21.93	20.97
		668 (133172)	22.89	21.83	20.90
15MHz	1RB-High (74)	690.5 (133397)	23.94	23.15	22.24
		680.5 (133297)	23.84	23.11	22.13
		670.5 (133197)	23.70	23.01	21.96
	1RB-Middle (37)	690.5 (133397)	24.13	23.30	22.45
		680.5 (133297)	24.04	23.15	22.30
		670.5 (133197)	23.92	23.23	22.28
	1RB-Low (0)	690.5 (133397)	23.83	23.08	22.13
		680.5 (133297)	23.69	23.03	21.99
		670.5 (133197)	23.83	23.04	22.13
	36RB-High (38)	690.5 (133397)	23.07	22.04	21.07
		680.5 (133297)	22.98	22.00	21.02
		670.5 (133197)	22.89	21.84	20.89

	36RB-Middle (19)	690.5 (133397)	23.07	22.06	21.08
		680.5 (133297)	23.01	21.95	20.97
		670.5 (133197)	22.89	21.87	20.89
	36RB-Low (0)	690.5 (133397)	22.96	21.98	21.00
		680.5 (133297)	22.88	21.85	20.85
		670.5 (133197)	22.87	21.82	20.87
	75RB (0)	690.5 (133397)	23.00	22.06	21.07
		680.5 (133297)	22.95	21.93	20.95
		670.5 (133197)	22.89	21.85	20.90
20MHz	1RB-High (99)	688 (133372)	23.88	23.08	22.15
		683 (133322)	23.84	23.06	22.10
		673 (133222)	23.73	23.06	22.01
	1RB-Middle (50)	688 (133372)	24.06	23.22	22.28
		683 (133322)	23.96	23.20	22.26
		673 (133222)	23.78	23.12	22.13
	1RB-Low (0)	688 (133372)	23.68	22.97	21.97
		683 (133322)	23.63	23.02	21.93
		673 (133222)	23.76	22.96	22.05
	50RB-High (50)	688 (133372)	23.01	22.04	21.05
		683 (133322)	23.05	22.07	21.10
		673 (133222)	22.94	21.93	20.95
	50RB-Middle (25)	688 (133372)	23.02	22.04	21.09
		683 (133322)	23.04	21.99	20.99
		673 (133222)	22.89	21.84	20.88
	50RB-Low (0)	688 (133372)	22.95	22.00	21.03
		683 (133322)	22.90	21.85	20.86
		673 (133222)	22.81	21.75	20.82
	100RB (0)	688 (133372)	22.94	21.98	21.01
		683 (133322)	22.97	21.96	20.97
		673 (133222)	22.88	21.86	20.89

11.4 Wi-Fi and BT Measurement result

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, n, ac then ax) is selected. Therefore the SAR measurements performed for the 802.11n/ac modes, as the lowest order modulation, cover 802.11ax modes.

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.

According to KDB 248227 D01, simultaneous SAR provisions in KDB 447498 D01 apply to determine

simultaneous transmission SAR test exclusion for Wi-Fi MIMO. If the sum of 1-g single transmission chain SAR measurements is<1.6W/kg and/or the MIMO output power is equal or less than a single chain, then no additional SAR measurements for simultaneously at the specified maximum output power of MIMO operation. When antennas are spatially separated to the extent that SAR distributions do not overlap and can be treated independently, SAR compliance for simultaneous transmission is determined separately for each individual antenna.

The average conducted power for Wi-Fi 2.4G is as following:

Head and Body worn– Transmit alone

802.11b(dBm)	
Channel\data rate	1Mbps
11(2462MHz)	19.03
6(2437MHz)	19.29
1(2412MHz)	19.08
Tune-up	20.00
802.11g(dBm)	
Channel\data rate	6Mbps
11(2462MHz)	18.35
6(2437MHz)	18.56
1(2412MHz)	18.33
Tune-up	19.00
802.11n(dBm)-20MHz	
Channel\data rate	MCS0
11(2462MHz)	18.83
6(2437MHz)	18.7
1(2412MHz)	18.2
Tune-up	19.00
802.11n(dBm)-40MHz	
Channel\data rate	MCS0
9(2452MHz)	18.38
6(2437MHz)	18.54
3(2422MHz)	18.67
Tune-up	19.00

Head and Body worn – Transmit with WWAN

802.11b(dBm)	
Channel\data rate	1Mbps
11(2462MHz)	13.83
6(2437MHz)	14.32
1(2412MHz)	13.95
Tune-up	15.00
802.11g(dBm)	
Channel\data rate	6Mbps
11(2462MHz)	13.22
6(2437MHz)	13.62
1(2412MHz)	13.05
Tune-up	14.00
802.11n(dBm)-20MHz	
Channel\data rate	MCS0
11(2462MHz)	13.87
6(2437MHz)	13.93
1(2412MHz)	13.3
Tune-up	14.00
802.11n(dBm)-40MHz	
Channel\data rate	MCS0
9(2452MHz)	13.95
6(2437MHz)	13.82
3(2422MHz)	13.76
Tune-up	14.00

The average conducted power for Wi-Fi 5G is as following:

Head and Body worn– Transmit alone

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	17.18
40(5200 MHz)	17.25
44(5220 MHz)	17.74
48(5240 MHz)	17.11
52(5260 MHz)	17.28
56(5280 MHz)	17.47
60(5300 MHz)	17.66
64(5320 MHz)	17.78
100(5500 MHz)	18.00
104(5520 MHz)	18.16
108(5540 MHz)	18.33
112(5560 MHz)	18.42
116(5580 MHz)	18.41
120(5600 MHz)	18.54
124(5620 MHz)	18.62
128(5640 MHz)	18.27
132(5660 MHz)	18.35
136(5680 MHz)	17.67
140(5700 MHz)	17.88
144(5720 MHz)	17.93
149(5745 MHz)	17.58
153(5765 MHz)	17.64
157(5785 MHz)	17.65
161(5805 MHz)	17.66
165(5825 MHz)	18.27
Tune-up	18.80

Head and Body worn – Transmit with WWAN

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	14.59
40(5200 MHz)	14.58
44(5220 MHz)	14.65
48(5240 MHz)	14.55
52(5260 MHz)	14.36
56(5280 MHz)	14.37
60(5300 MHz)	14.45
64(5320 MHz)	14.68
100(5500 MHz)	15.25
104(5520 MHz)	15.55
108(5540 MHz)	15.70
112(5560 MHz)	15.73
116(5580 MHz)	15.75
120(5600 MHz)	15.58
124(5620 MHz)	15.67
128(5640 MHz)	15.39
132(5660 MHz)	14.67
136(5680 MHz)	14.85
140(5700 MHz)	15.15
144(5720 MHz)	15.19
149(5745 MHz)	14.57
153(5765 MHz)	14.63
157(5785 MHz)	14.65
161(5805 MHz)	15.08
165(5825 MHz)	15.65
Tune-up	16.30

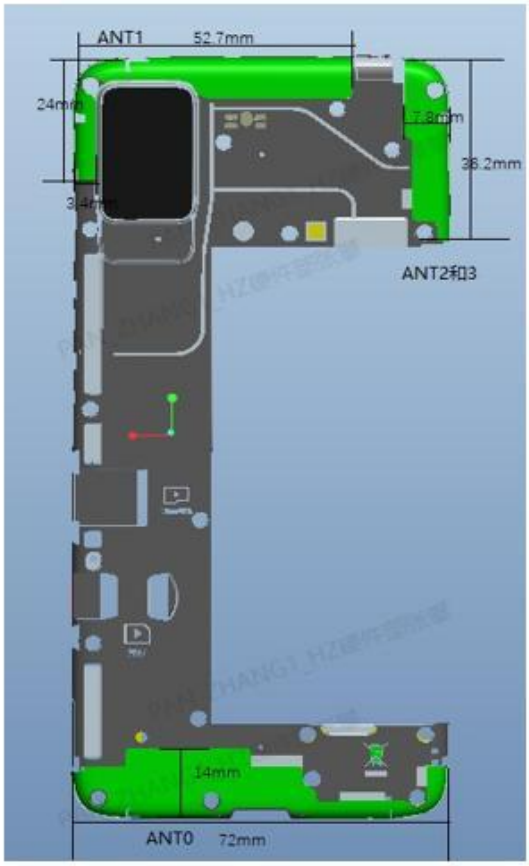
The average conducted power for BT is as following:

BR/EDR									
	GFSK			**EDR2M-4_DQPSK**			**EDR3M-8DPSK**		
	Ch0	**Ch 39**	**Ch 78**	**Ch 0**	**Ch 39**	**Ch 78**	**Ch 0**	**Ch 39**	**Ch 78**
Maximum Transmit Power(<20dBm)	6.98	8.07	7.54	6.28	7.13	6.64	6.26	7.13	6.64
Tune up	**7.50**	**8.50**	**8.00**	**6.50**	**7.50**	**7.00**	**6.50**	**7.50**	**7.00**

12 Antenna Location

12.1 Transmit Antenna Separation Distances

ANT1
GSM850 PRX
W5/B5/B12/B26/B71 TX/PRX
B41 DRX



ANT2
GPS/2.4GWIFI/5GWIFI/BT

ANT3
PCS1900/W2/W4/B2/B4/B25/B66 DRX

ANT0
GSM850 TX/DRX
GSM850 TX/ GSM900/DCS1800/PCS1900/W2/W4/B2/B4/B25/B41/B66 TX/PRX
W5/B5/B12/B26/B71 DRX

12.2 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR v01, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.

SAR measurement positions						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
ANT0	Yes	Yes	Yes	Yes	No	Yes
ANT1	Yes	Yes	Yes	Yes	Yes	No
ANT2	Yes	Yes	Yes	No	Yes	No

13 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.

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
LTE TDD	1:1.58 or 1:2.37

13.1 SAR results for Cellular

Table 13.1-1: SAR Values (GSM 850 MHz Band - Head)

Ambient Temperature: 22.9 ℃					Liquid Temperature: 22.5℃						
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
128	824.2	Left	Touch	/	32.39	33.30	0.148	**0.18**	0.213	**0.26**	-0.05
190	836.6	Left	Touch	/	32.33	33.30	0.239	**0.30**	0.346	**0.43**	-0.20
251	848.8	Left	Touch	Fig.1	32.20	33.30	0.280	**0.36**	0.361	**0.47**	0.15
190	836.6	Left	Tilt	/	32.33	33.30	0.115	**0.14**	0.164	**0.21**	-0.03
190	836.6	Right	Touch	/	32.33	33.30	0.207	**0.26**	0.297	**0.37**	0.12
190	836.6	Right	Tilt	/	32.33	33.30	0.101	**0.13**	0.144	**0.18**	0.11

Table 13.1-2: SAR Values (GSM 850 MHz Band - Body)

Ambient Temperature: 22.9 ℃						Liquid Temperature: 22.5℃					
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	GPRS(4)	Front	/	26.93	27.50	0.253	**0.29**	0.323	**0.37**	0.00
128	824.2	GPRS(4)	Rear	/	26.81	27.50	0.261	**0.31**	0.377	**0.44**	0.01
190	836.6	GPRS(4)	Rear	/	26.93	27.50	0.380	**0.43**	0.539	**0.61**	-0.18
251	848.8	GPRS(4)	Rear	Fig.2	26.97	27.50	0.465	**0.53**	0.630	**0.71**	-0.04
190	836.6	GPRS(4)	Left	/	26.93	27.50	0.266	**0.30**	0.394	**0.45**	-0.03
190	836.6	GPRS(4)	Right	/	26.93	27.50	0.203	**0.23**	0.299	**0.34**	-0.04
190	836.6	GPRS(4)	Bottom	/	26.93	27.50	0.034	**0.04**	0.056	**0.06**	0.10
190	836.6	EGPRS(4)	Rear	/	26.97	27.50	0.256	**0.29**	0.370	**0.42**	-0.05

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 13.1-3: SAR Values (GSM 1900 MHz Band - Head)

Ambient Temperature: 22.9 ℃						Liquid Temperature: 22.5℃					
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max .tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	Left	Touch	/	29.24	30.30	0.073	**0.09**	0.124	**0.16**	0.19
661	1880	Left	Tilt	/	29.24	30.30	0.043	**0.05**	0.073	**0.09**	-0.11
512	1850.2	Right	Touch	/	29.44	30.30	0.082	**0.10**	0.131	**0.16**	-0.09
661	1880	Right	Touch	/	29.24	30.30	0.090	**0.11**	0.145	**0.19**	0.15
810	1909.8	Right	Touch	Fig.3	29.11	30.30	0.107	**0.14**	0.167	**0.22**	-0.03
661	1880	Right	Tilt	/	29.24	30.30	0.060	**0.08**	0.103	**0.13**	0.12

Table 13.1-4: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.9 ℃						Liquid Temperature: 22.5℃				
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max.tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	GPRS(3)	Front	/	23.03	23.50	0.130	**0.14**	0.222	**0.25**	0.06
661	1880	GPRS(3)	Rear	/	23.03	23.50	0.160	**0.18**	0.313	**0.35**	0.15
661	1880	GPRS(3)	Left	/	23.03	23.50	0.037	**0.04**	0.066	**0.07**	-0.03
661	1880	GPRS(3)	Right	/	23.03	23.50	0.097	**0.11**	0.164	**0.18**	0.07
512	1850.2	GPRS(3)	Bottom	Fig.4	23.10	23.50	0.280	**0.31**	0.547	**0.60**	-0.11
661	1880	GPRS(3)	Bottom	/	23.03	23.50	0.225	**0.25**	0.436	**0.49**	-0.20
810	1909.8	GPRS(3)	Bottom	/	22.93	23.50	0.219	**0.25**	0.428	**0.49**	-0.03
661	1880	EGPRS(3)	Bottom	/	23.01	23.50	0.261	**0.29**	0.489	**0.55**	-0.02

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 13.1-5: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.9 ℃						Liquid Temperature: 22.5℃				
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max.tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	GPRS(3)	Front	/	24.02	24.50	0.151	**0.17**	0.254	**0.28**	0.13
512	1880	GPRS(3)	Rear	Fig.5	24.15	24.50	0.176	**0.19**	0.323	**0.35**	0.08
661	1880	GPRS(3)	Rear	/	24.02	24.50	0.171	**0.19**	0.284	**0.32**	0.16
810	1880	GPRS(3)	Rear	/	23.96	24.50	0.160	**0.18**	0.271	**0.31**	0.00
661	1880	EGPRS(3)	Rear	/	24.05	24.50	0.107	**0.12**	0.192	**0.21**	0.06

Note: The distance between the EUT and the phantom bottom is 15mm

Table 13.1-6: SAR Values (WCDMA 1900 MHz Band - Head)

Ambient Temperature: 22.9 ℃						Liquid Temperature: 22.5℃				
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max.tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
9400	1880	Left	Touch	/	24.33	24.50	0.205	**0.21**	0.352	**0.37**	0.20
9400	1880	Left	Tilt	/	24.33	24.50	0.106	**0.11**	0.178	**0.19**	-0.07
9262	1852.4	Right	Touch	/	24.18	24.50	0.202	**0.22**	0.329	**0.35**	0.02
9400	1880	Right	Touch	/	24.33	24.50	0.224	**0.23**	0.358	**0.37**	0.14
9538	1907.6	Right	Touch	Fig.6	24.26	24.50	0.278	**0.29**	0.428	**0.45**	-0.08
9400	1880	Right	Tilt	/	24.33	24.50	0.152	**0.16**	0.259	**0.27**	0.19

Table 13.1-7: SAR Values (WCDMA 1900 MHz Band - Body)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9400	1880	Front	/	20.25	21.00	0.251	**0.30**	0.427	**0.51**	0.05
9400	1880	Rear	/	20.25	21.00	0.212	**0.25**	0.373	**0.44**	-0.11
9400	1880	Left	/	20.25	21.00	0.052	**0.06**	0.090	**0.11**	-0.15
9400	1880	Right	/	20.25	21.00	0.186	**0.22**	0.329	**0.39**	-0.01
9262	1852.4	Bottom	/	20.16	21.00	0.306	**0.37**	0.580	**0.70**	0.03
9400	1880	Bottom	Fig.7	20.25	21.00	0.311	**0.30**	0.588	**0.70**	-0.08
9538	1907.6	Bottom	/	20.20	21.00	0.270	**0.32**	0.501	**0.60**	0.01

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 13.1-8: SAR Values (WCDMA 1900 MHz Band - Body)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9400	1880	Front	/	21.34	22.00	0.263	**0.31**	0.433	**0.50**	0.01
9400	1880	Rear	Fig.8	21.34	22.00	0.304	**0.35**	0.526	**0.61**	-0.01
9538	1907.6	Rear	/	21.36	22.00	0.144	**0.17**	0.247	**0.29**	0.19
9262	1852.4	Rear	/	21.20	22.00	0.145	**0.17**	0.256	**0.31**	0.11

Note: The distance between the EUT and the phantom bottom is 15mm

Table 13.1-9: SAR Values (WCDMA 1700 MHz Band – Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max.tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
1312	1712.4	Left	Touch	/	24.15	24.50	0.117	**0.13**	0.196	**0.21**	-0.10
1412	1732.4	Left	Touch	/	24.11	24.50	0.101	**0.11**	0.173	**0.19**	-0.17
1513	1752.6	Left	Touch	Fig.9	24.10	24.50	0.146	**0.16**	0.229	**0.25**	0.15
1412	1732.4	Left	Tilt	/	24.11	24.50	0.056	**0.06**	0.091	**0.10**	0.14
1412	1732.4	Right	Touch	/	24.11	24.50	0.095	**0.10**	0.156	**0.17**	0.09
1412	1732.4	Right	Tilt	/	24.11	24.50	0.074	**0.08**	0.121	**0.13**	-0.19

Table 13.1-10: SAR Values (WCDMA 1700 MHz Band - Body)

Ambient Temperature: 22.9 ℃					Liquid Temperature: 22.5℃					
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1412	1732.4	Front	/	20.06	20.50	0.175	**0.19**	0.293	**0.32**	0.01
1412	1732.4	Rear	/	20.06	20.50	0.211	**0.23**	0.372	**0.41**	-0.03
1412	1732.4	Left	/	20.06	20.50	0.039	**0.04**	0.065	**0.07**	-0.05
1412	1732.4	Right	/	20.06	20.50	0.058	**0.06**	0.099	**0.11**	0.13
1312	1712.4	Bottom	/	20.12	20.50	0.254	**0.28**	0.487	**0.53**	0.04
1412	1732.4	Bottom	Fig.10	20.06	20.50	0.317	**0.35**	0.593	**0.66**	-0.20
1513	1752.6	Bottom	/	20.08	20.50	0.263	**0.29**	0.499	**0.55**	0.00

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 13.1-11: SAR Values (WCDMA 1700 MHz Band - Body)

Ambient Temperature: 22.9 ℃					Liquid Temperature: 22.5℃					
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1412	1732.4	Front	/	21.14	21.50	0.174	**0.19**	0.288	**0.31**	-0.02
1412	1732.4	Rear	Fig.11	21.14	21.50	0.241	**0.26**	0.427	**0.46**	0.00
1513	1752.6	Rear	/	21.00	21.50	0.189	**0.21**	0.330	**0.37**	0.09
1312	1712.4	Rear	/	21.28	21.50	0.178	**0.19**	0.319	**0.34**	0.16

Note: The distance between the EUT and the phantom bottom is 15mm

Table 13.1-12: SAR Values (WCDMA 850 MHz Band - Head)

Ambient Temperature: 22.9 ℃						Liquid Temperature: 22.5℃					
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4183	836.6	Left	Touch	/	21.84	22.50	0.200	**0.23**	0.312	**0.36**	0.02
4183	836.6	Left	Tilt	/	21.84	22.50	0.174	**0.20**	0.282	**0.33**	0.09
4132	826.4	Right	Touch	/	21.89	22.50	0.205	**0.32**	0.309	**0.36**	0.05
4183	836.6	Right	Touch	Fig.12	21.84	22.50	0.254	**0.30**	0.415	**0.48**	0.02
4233	846.6	Right	Touch	/	21.85	22.50	0.219	**0.25**	0.350	**0.41**	0.03
4183	836.6	Right	Tilt	/	21.84	22.50	0.156	**0.18**	0.242	**0.28**	-0.19

Table 13.1-13: SAR Values (WCDMA 850 MHz Band - Body)

Ambient Temperature: 22.9 ℃	Liquid Temperature: 22.5℃

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4183	836.6	Front	/	23.75	24.50	0.116	**0.14**	0.179	**0.21**	0.05
4132	826.4	Rear	/	23.81	24.50	0.154	**0.18**	0.233	**0.27**	-0.01
4183	836.6	Rear	Fig.13	23.75	24.50	0.238	**0.28**	0.423	**0.50**	-0.16
4233	846.6	Rear	/	23.77	24.50	0.114	**0.13**	0.173	**0.20**	-0.01
4183	836.6	Left	/	23.75	24.50	0.058	**0.07**	0.085	**0.10**	0.16
4183	836.6	Right	/	23.75	24.50	0.102	**0.12**	0.151	**0.18**	0.02
4183	836.6	Top	/	23.75	24.50	0.089	**0.11**	0.160	**0.19**	0.01

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 13.1-14: SAR Values (LTE Band12 - Head)

Ambient Temperature: 22.9 ℃						Liquid Temperature: 22.5℃						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23095	707.5	1RB-Middle	Left	Touch	/	22.24	23.00	0.460	**0.55**	0.657	**0.78**	0.00
23095	707.5	1RB-Middle	Left	Tilt	/	22.24	23.00	0.230	**0.27**	0.354	**0.42**	0.01
23095	707.5	1RB-Middle	Right	Touch	Fig.14	22.24	23.00	0.418	**0.50**	0.661	**0.79**	0.06
23095	707.5	1RB-Middle	Right	Tilt	/	22.24	23.00	0.196	**0.23**	0.296	**0.35**	-0.01
23095	707.5	25RB-High	Left	Touch	/	22.24	23.00	0.360	**0.43**	0.515	**0.61**	0.02
23095	707.5	25RB-High	Left	Tilt	/	22.24	23.00	0.225	**0.27**	0.347	**0.41**	0.04
23095	707.5	25RB-High	Right	Touch	/	22.24	23.00	0.373	**0.44**	0.556	**0.66**	0.00
23095	707.5	25RB-High	Right	Tilt	/	22.24	23.00	0.191	**0.23**	0.288	**0.34**	0.10

Note1: The LTE mode is QPSK_10MHz

Table 13.1-15: SAR Values (LTE Band12 – Body)

Ambient Temperature: 22.9 ℃						Liquid Temperature: 22.5℃						
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
Ch.	MHz											
23095	707.5	1RB-Middle	Front	/	24.22	25.00	0.248	**0.30**	0.347	**0.42**	-0.02	
23095	707.5	1RB-Middle	Rear	Fig.15	24.22	25.00	0.385	**0.46**	0.499	**0.60**	0.02	
23095	707.5	1RB-Middle	Left	/	24.22	25.00	0.195	**0.23**	0.283	**0.34**	0.00	
23095	707.5	1RB-Middle	Right	/	24.22	25.00	0.296	**0.35**	0.429	**0.51**	0.00	
23095	707.5	1RB-Middle	Top	/	24.22	25.00	0.069	**0.08**	0.115	**0.14**	0.10	
23095	707.5	25RB-High	Front	/	23.22	24.00	0.209	**0.25**	0.293	**0.35**	0.06	
23095	707.5	25RB-High	Rear	/	23.22	24.00	0.278	**0.33**	0.392	**0.47**	0.00	
23095	707.5	25RB-High	Left	/	23.22	24.00	0.160	**0.19**	0.231	**0.28**	-0.02	

23095	707.5	25RB-High	Right	/	23.22	24.00	0.251	**0.30**	0.364	**0.44**	0.00
23095	707.5	25RB-High	Top	/	23.22	24.00	0.071	**0.09**	0.119	**0.14**	0.11

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_10MHz

Table 13.1-16: SAR Values (LTE Band25 - Head)

Ambient Temperature: 22.9 ℃						Liquid Temperature: 22.5℃						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
26590	1905	1RB-Middle	Left	Touch	/	23.90	25.00	0.167	**0.22**	0.288	**0.37**	0.19
26590	1905	1RB-Middle	Left	Tilt	/	23.90	25.00	0.086	**0.11**	0.154	**0.20**	0.06
26590	1905	1RB-Middle	Right	Touch	Fig.16	23.90	25.00	0.303	**0.39**	0.477	**0.61**	-0.02
26590	1905	1RB-Middle	Right	Tilt	/	23.90	25.00	0.160	**0.21**	0.274	**0.35**	0.05
26590	1905	50RB-Low	Left	Touch	/	23.05	24.00	0.165	**0.21**	0.279	**0.35**	-0.19
26590	1905	50RB-Low	Left	Tilt	/	23.05	24.00	0.087	**0.11**	0.145	**0.18**	-0.09
26590	1905	50RB-Low	Right	Touch	/	23.05	24.00	0.197	**0.20**	0.339	**0.32**	0.11
26590	1905	50RB-Low	Right	Tilt	/	23.05	24.00	0.142	**0.18**	0.247	**0.31**	0.09

Note1: The LTE mode is QPSK_20MHz

Table 13.1-17: SAR Values (LTE Band25 - Body)

Ambient Temperature: 22.9 ℃						Liquid Temperature: 22.5℃						
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
Ch.	MHz											
26590	1905	1RB-Middle	Front	/	19.95	21.00	0.315	**0.40**	0.549	**0.70**	0.13	
26590	1905	1RB-Middle	Rear	/	19.95	21.00	0.233	**0.30**	0.421	**0.54**	-0.17	
26590	1905	1RB-Middle	Left	/	19.95	21.00	0.074	**0.09**	0.132	**0.17**	0.01	
26590	1905	1RB-Middle	Right	/	19.95	21.00	0.165	**0.21**	0.299	**0.38**	0.18	
26590	1905	1RB-Middle	Bottom	/	19.95	21.00	0.289	**0.37**	0.572	**0.73**	0.12	
26590	1905	50RB-Low	Front	/	19.94	21.00	0.324	**0.41**	0.565	**0.72**	-0.02	
26590	1905	50RB-Low	Rear	/	19.94	21.00	0.249	**0.32**	0.447	**0.57**	-0.01	
26590	1905	50RB-Low	Left	/	19.94	21.00	0.049	**0.06**	0.090	**0.11**	-0.05	
26590	1905	50RB-Low	Right	/	19.94	21.00	0.188	**0.24**	0.324	**0.41**	0.02	
26590	1905	50RB-Low	Bottom	Fig.17	19.94	21.00	0.314	**0.40**	0.598	**0.76**	0.08	

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz

Table 13.1-18: SAR Values (LTE Band25 - Body)

Ambient Temperature: 22.9 ℃	Liquid Temperature: 22.5℃

Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
26590	1905	1RB-Middle	Front	/	20.86	22.00	0.136	**0.18**	0.228	**0.30**	0.05
26590	1905	1RB-Middle	Rear	Fig.18	20.86	22.00	0.194	**0.25**	0.351	**0.46**	0.17
26590	1905	50RB-Low	Front	/	20.95	22.00	0.136	**0.17**	0.227	**0.29**	0.02
26590	1905	50RB-Low	Rear	/	20.95	22.00	0.145	**0.18**	0.255	**0.32**	0.07

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz

Table 13.1-19: SAR Values (LTE Band26 - Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
26865	831.5	1RB-Middle	Left	Touch	/	22.32	23.00	0.400	**0.47**	0.601	**0.70**	-0.02
26865	831.5	1RB-Middle	Left	Tilt	/	22.32	23.00	0.295	**0.35**	0.473	**0.55**	0.05
26865	831.5	1RB-Middle	Right	Touch	Fig.19	22.32	23.00	0.382	**0.45**	0.611	**0.71**	-0.01
26865	831.5	1RB-Middle	Right	Tilt	/	22.32	23.00	0.213	**0.25**	0.328	**0.38**	0.06
26865	831.5	36RB-Middle	Left	Touch	/	22.21	23.00	0.314	**0.38**	0.480	**0.58**	0.02
26865	831.5	36RB-Middle	Left	Tilt	/	22.21	23.00	0.229	**0.27**	0.364	**0.44**	-0.01
26865	831.5	36RB-Middle	Right	Touch	/	22.21	23.00	0.351	**0.42**	0.529	**0.63**	0.02
26865	831.5	36RB-Middle	Right	Tilt	/	22.21	23.00	0.206	**0.25**	0.319	**0.38**	0.02

Note1: The LTE mode is QPSK_15MHz

Table 13.1-20: SAR Values (LTE Band26 - Body)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
26865	831.5	1RB-Middle	Front	/	24.35	25.00	0.105	**0.12**	0.157	**0.18**	0.03
26865	831.5	1RB-Middle	Rear	Fig.20	24.35	25.00	0.166	**0.19**	0.288	**0.33**	0.01
26865	831.5	1RB-Middle	Left	/	24.35	25.00	0.047	**0.05**	0.069	**0.08**	0.00
26865	831.5	1RB-Middle	Right	/	24.35	25.00	0.092	**0.11**	0.135	**0.16**	0.04
26865	831.5	1RB-Middle	Top	/	24.35	25.00	0.090	**0.10**	0.150	**0.17**	0.01
26865	831.5	36RB-Middle	Front	/	23.24	24.00	0.102	**0.12**	0.152	**0.18**	0.08
26865	831.5	36RB-Middle	Rear	/	23.24	24.00	0.155	**0.18**	0.240	**0.29**	0.06
26865	831.5	36RB-Middle	Left	/	23.24	24.00	0.046	**0.05**	0.068	**0.08**	0.12

26865	831.5	36RB-Middle	Right	/	23.24	24.00	0.090	**0.11**	0.132	**0.16**	0.06
26865	831.5	36RB-Middle	Top	/	23.24	24.00	0.088	**0.10**	0.145	**0.17**	0.00

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_15MHz

Table 13.1-21: SAR Values (LTE Band41 (PC3)- Head)

Ambient Temperature: 22.9 ℃								Liquid Temperature: 22.5℃				
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
41055	2636.5	1RB-Middle	Left	Touch	/	23.18	24.00	0.063	**0.08**	0.134	**0.16**	-0.11
41055	2636.5	1RB-Middle	Left	Tilt	/	23.18	24.00	0.083	**0.10**	0.175	**0.21**	0.12
41055	2636.5	1RB-Middle	Right	Touch	Fig.21	23.18	24.00	0.109	**0.13**	0.188	**0.23**	-0.09
41055	2636.5	1RB-Middle	Right	Tilt	/	23.18	24.00	0.024	**0.03**	0.065	**0.08**	0.15
41055	2636.5	50RB-Middle	Left	Touch	/	22.24	23.00	0.049	**0.06**	0.104	**0.12**	-0.15
41055	2636.5	50RB-Middle	Left	Tilt	/	22.24	23.00	0.044	**0.05**	0.093	**0.11**	0.19
41055	2636.5	50RB-Middle	Right	Touch	/	22.24	23.00	0.081	**0.10**	0.157	**0.19**	0.06
41055	2636.5	50RB-Middle	Right	Tilt	/	22.24	23.00	0.017	**0.02**	0.037	**0.04**	-0.10
41055	2636.5	50RB-Low	Left	Touch	/	22.24	23.00	0.042	**0.05**	0.083	**0.10**	0.19
41055	2636.5	50RB-Low	Left	Tilt	/	22.24	23.00	0.042	**0.05**	0.090	**0.11**	-0.02
41055	2636.5	50RB-Low	Right	Touch	/	22.24	23.00	0.060	**0.07**	0.129	**0.15**	0.08
41055	2636.5	50RB-Low	Right	Tilt	/	22.24	23.00	0.027	**0.03**	0.058	**0.07**	0.18
41055	2636.5	1RB-Middle	Right	Touch	B2	23.18	24.00	0.077	**0.09**	0.150	**0.18**	-0.16

Note1: The LTE mode is QPSK_20MHz

Table 13.1-22: SAR Values (LTE Band41 (PC3)- Body)

Ambient Temperature: 22.9 ℃						Liquid Temperature: 22.5℃				
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
41055	2636.5	1RB-Middle	Front	/	18.21	19.00	0.056	**0.07**	0.105	**0.13**	-0.10
41055	2636.5	1RB-Middle	Rear	Fig.22	18.21	19.00	0.193	**0.23**	0.443	**0.53**	0.04
41055	2636.5	1RB-Middle	Left	/	18.21	19.00	0.025	**0.03**	0.047	**0.06**	-0.09
41055	2636.5	1RB-Middle	Right	/	18.21	19.00	0.029	**0.03**	0.058	**0.07**	0.20
41055	2636.5	1RB-Middle	Bottom	/	18.21	19.00	0.122	**0.15**	0.273	**0.33**	-0.09
41055	2636.5	50RB-Middle	Front	/	18.26	19.00	0.112	**0.13**	0.205	**0.24**	0.02
41055	2636.5	50RB-Middle	Rear	/	18.26	19.00	0.181	**0.21**	0.408	**0.48**	0.11
41055	2636.5	50RB-Middle	Left	/	18.26	19.00	0.040	**0.05**	0.070	**0.08**	0.13
41055	2636.5	50RB-Middle	Right	/	18.26	19.00	0.029	**0.03**	0.057	**0.07**	-0.04
41055	2636.5	50RB-Middle	Bottom	/	18.26	19.00	0.117	**0.14**	0.262	**0.31**	0.09

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz

Table 13.1-23: SAR Values (LTE Band41 (PC3)- Body)

Ambient Temperature: 22.9 ℃						Liquid Temperature: 22.5℃				
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
41055	2636.5	1RB-Middle	Front	/	19.15	20.00	0.097	**0.12**	0.185	**0.22**	-0.14
41055	2636.5	1RB-Middle	Rear	Fig.23	19.15	20.00	0.114	**0.14**	0.239	**0.29**	0.01
41055	2636.5	50RB-Middle	Front	/	19.17	20.00	0.092	**0.11**	0.168	**0.20**	0.07
41055	2636.5	50RB-Middle	Rear	/	19.17	20.00	0.106	**0.13**	0.219	**0.27**	-0.06

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz

Table 13.1-24: SAR Values (LTE Band41(PC2) - Head)

Ambient Temperature: 22.9 ℃							Liquid Temperature: 22.5℃					
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
41055	2636.5	1RB-Middle	Left	Touch	/	26.10	26.50	0.101	**0.11**	0.204	**0.22**	-0.13
41055	2636.5	1RB-Middle	Left	Tilt	/	26.10	26.50	0.083	**0.09**	0.175	**0.19**	0.12
41055	2636.5	1RB-Middle	Right	Touch	Fig.24	26.10	26.50	0.156	**0.17**	0.272	**0.30**	0.10
41055	2636.5	1RB-Middle	Right	Tilt	/	26.10	26.50	0.021	**0.02**	0.044	**0.05**	0.11