

TEST REPORT

SAR Test for certification of WW23B

APPLICANT

Panasonic Corporation of North America

REPORT NO.

HCT-SR-2407-FC008-R2

DATE OF ISSUE

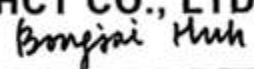
Aug. 07 2024

Tested by
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TEST REPORT

FCC SAR Test for
certification

REPORT NO.

HCT-SR-2407-FC008-R2

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Aug. 07 2024

FCC ID

ACJ9TGW23B

Applicant

Panasonic Corporation of North America
Two Riverfront Plaza, 9th Floor, Newark, NJ 07102-5490, USA

Product Name

Wireless Module

Model Name

WW23B

Date of Test

Jun. 24, 2024 ~ Jul. 11, 2024

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing Lab
(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si,
Gyeonggi-do, 17383 KOREA)

FCC Rule Part(s)

CFR §2.1093

Test Results

PASS (SAR Limit: 1.6 W/kg)
Refer to the clause 3.2 Attestation of test result

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	Jul. 22 2024	Initial Release
1	Aug. 01 2024	Revised Section 15
2	Aug. 07 2024	Revised Page 10,14, Section 11.3,15

Notice

Content

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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1. Test Regulations

The tests documented in this report were performed in accordance with FCC CFR § 2.1093, IEEE 1528-2013, ANSI C63.26-2015 the following FCC Published RF exposure KDB procedures:

- FCC KDB Publication 941225 D01 3G SAR Procedures v03r01
- FCC KDB Publication 941225 D05 SAR for LTE Devices v02r05
- FCC KDB Publication 941225 D05A LTE Rel.10 KDB Inquiry sheet v01r02
- FCC KDB Publication 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB Publication 447498 D01 General RF Exposure Guidance v06
- FCC KDB Publication 616217 D04 SAR Tablets v01r02
- FCC KDB Publication 616217 D04 v01r02 (Proximity Sensor)
- FCC KDB Publication 690783 D01 SAR Listings on Grants v01r03
- FCC KDB Publication 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- FCC KDB Publication 865664 D02 SAR Reporting v01r02

In Addition to the above, the following information was used.

- October 2014 TCB Workshop Notes (Overlapping LTE Bands)
- April 2015 TCB Workshop Notes (Overlapping LTE Bands Test exclusion)
- November 2017 TCBC Workshop Notes (LTE Carrier Aggregation)
- April 2018 TCBC Workshop Notes (LTE DL CA SAR Test Exclusion)

2. Test Location

2.1 Test Laboratory

Company Name	HCT Co., Ltd.
Address	74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA
Telephone	031-645-6300
Fax.	031-645-6401

2.2 Test Facilities

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Korea	National Radio Research Agency (Designation No. KR0032)
	KOLAS (Testing No. KT197)

3. Information of the EUT

3.1 General Information of the EUT

Model Name	WW23B
Host Model Name	CF-33
Equipment Type	Wireless Module
FCC ID	ACJ9TGW23B
Application Type	Certification
Applicant	Panasonic Corporation of North America

3.2 Attestation of test result of device under test

The Highest Reported SAR			
Band	Tx. Frequency	Equipment Class	Reported SAR (W/kg)
			1 g Body
UMTS Band 2	1 852.4 MHz ~ 1 907.6 MHz	PCE	1.22
UMTS Band 4	1 712.4 MHz ~ 1 752.6 MHz	PCE	0.91
UMTS Band 5	826.4 MHz ~ 846.6 MHz	PCE	0.96
LTE FDD Band 2 (PCS)	1 850.7 MHz ~ 1 909.3 MHz	PCE	1.24
LTE FDD Band 4 (AWS)	1 710.7 MHz ~ 1 754.3 MHz	PCE	1.03
LTE FDD Band 5 (Cell)	824.7 MHz ~ 848.3 MHz	PCE	1.11
LTE FDD Band 7	2 502.5 MHz ~ 2 567.5 MHz	PCE	0.79
LTE FDD Band 12	699.7 MHz ~ 715.3 MHz	PCE	0.85
LTE FDD Band 13	779.5 MHz ~ 784.5 MHz	PCE	1.07
LTE FDD Band 14	790.5 MHz ~ 795.5 MHz	PCE	1.06
LTE FDD Band 25 (PCS)	1 850.7 MHz ~ 1 914.3 MHz	PCE	0.82
LTE FDD Band 26 (Cell)	814.7 MHz ~ 848.3 MHz	PCE	1.02
LTE TDD Band 42	3402.5 MHz ~ 3549.5 MHz	PCE	1.44
LTE TDD Band 48	3 552.5 MHz ~ 3697.5 MHz	CBE	1.16
LTE FDD Band 66 (AWS)	1 710.7 MHz ~ 1 779.3 MHz	PCE	0.67
Simultaneous SAR per KDB 690783 D01v01r03			1.58
Date(s) of Tests:	Jun. 24, 2024 ~ Jul. 11, 2024		

4. Device Under Test Description

4.1 DUT specification

Device Wireless specification overview		
Band & Mode	Operating Mode	Tx Frequency
UMTS Band 2	Data	1 852.4 MHz ~ 1 907.6 MHz
UMTS Band 4	Data	1 712.4 MHz ~ 1 752.6 MHz
UMTS Band 5	Data	826.4 MHz ~ 846.6 MHz
LTE FDD Band 2 (PCS)	Data	1 850.7 MHz ~ 1 909.3 MHz
LTE FDD Band 4 (AWS)	Data	1 710.7 MHz ~ 1 754.3 MHz
LTE FDD Band 5 (Cell)	Data	824.7 MHz ~ 848.3 MHz
LTE FDD Band 7	Data	2 502.5 MHz ~ 2 567.5 MHz
LTE FDD Band 12	Data	699.7 MHz ~ 715.3 MHz
LTE FDD Band 13	Data	779.5 MHz ~ 784.5 MHz
LTE FDD Band 14	Data	790.5 MHz ~ 795.5 MHz
LTE FDD Band 25 (PCS)	Data	1 850.7 MHz ~ 1 914.3 MHz
LTE FDD Band 26	Data	814.7 MHz ~ 848.3 MHz
LTE TDD Band 42	Data	3402.5 MHz ~ 3549.5 MHz
LTE TDD Band 48	Data	3 552.5 MHz ~ 3697.5 MHz
LTE FDD Band 66 (AWS)	Data	1 710.7 MHz ~ 1 779.3 MHz
Device Serial Numbers	Mode	Serial Number
	WWAN	SOP-21-03649

4.4 Nominal and Maximum Output Power Specifications

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB publication 447498 D01v06.

4.4.1 PCE Nominal Output Power

UMTS Band

Mode/Band		Max. Modulated Average (dBm)			
		3GPP WCDMA	3GPP HSDPA	3GPP HSUPA	DC-HSDPA
UMTS Band 2 (1900 MHz)	Maximum	24.0	22.5	23	22.5
	Nominal	23.0	21.5	22.0	21.5
UMTS Band 4 (1700 MHz)	Maximum	24.0	23	23	23.5
	Nominal	23.0	22.0	22.0	22.5
UMTS Band 5 (850 MHz)	Maximum	24.0	23	23	23
	Nominal	23.0	22.0	22.0	22.0

(Tolerance: Nominal Power -1.0 dB ~ Nominal Power +1.0 dB)

Mode/Band		Grip Sensor ON (dBm)			
		3GPP WCDMA	3GPP HSDPA	3GPP HSUPA	DC-HSDPA
UMTS Band 2 (1900 MHz)	Maximum	16.4	15.4	15.4	14.9
	Nominal	15.4	14.4	14.4	13.9
UMTS Band 4 (1700 MHz)	Maximum	15.9	14.9	14.9	14.9
	Nominal	14.9	13.9	13.9	13.9
UMTS Band 5 (850 MHz)	Maximum	18.5	17.5	17.5	17.5
	Nominal	17.5	16.5	16.5	16.5

(Tolerance: Nominal Power -1.0 dB ~ Nominal Power +1.0 dB)

LTE Band

Mode / Band		Max. Modulated Average (dBm)	Grip Sensor ON (dBm)
LTE FDD Band 2	Maximum	24.0	17.0
	Nominal	23.0	16.0
LTE FDD Band 4	Maximum	24.0	16.5
	Nominal	23.0	15.5
LTE FDD Band 5	Maximum	24.0	18.8
	Nominal	23.0	17.8
LTE FDD Band 7	Maximum	24.0	14.2
	Nominal	23.0	13.2
LTE FDD Band 12	Maximum	24.0	20.0
	Nominal	23.0	19.0
LTE FDD Band 13	Maximum	24.0	18.8
	Nominal	23.0	17.8
LTE FDD Band 14	Maximum	24.0	18.5
	Nominal	23.0	17.5
LTE FDD Band 25	Maximum	24.0	16.8
	Nominal	23.0	15.8
LTE FDD Band 26	Maximum	24.0	18.5
	Nominal	23.0	17.5
LTE TDD Band 42	Maximum	19.0	17.0
	Nominal	18.0	16.0
LTE TDD Band 48	Maximum	19.0	17.0
	Nominal	18.0	16.0
LTE FDD Band 66	Maximum	24.0	16.3
	Nominal	23.0	15.3

(Tolerance: Nominal Power -1.0 dB ~ Nominal Power +1.0 dB)

4.5 LTE Information

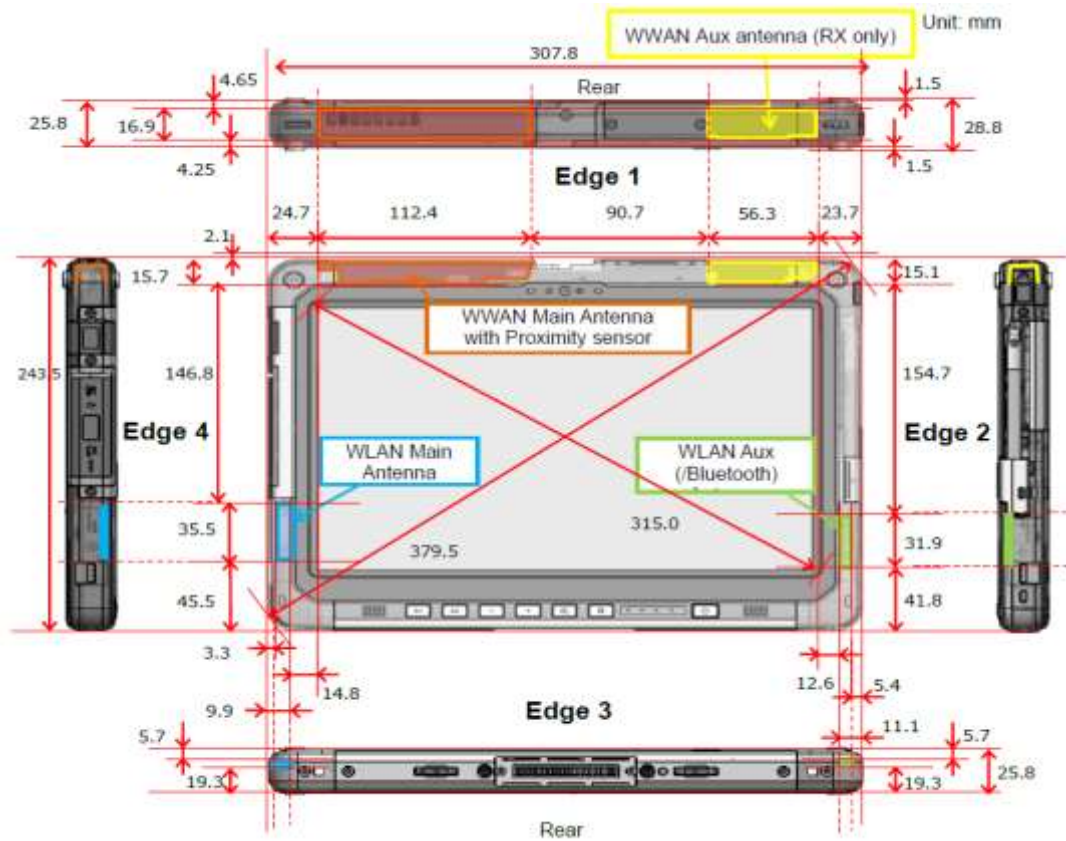
Item.		Description
Frequency Range	LTE FDD Band 2 (PCS)	1 850.7 MHz ~ 1 909.3 MHz
	LTE FDD Band 4 (AWS)	1 710.7 MHz ~ 1 754.3 MHz
	LTE FDD Band 5 (Cell)	824.7 MHz ~ 848.3 MHz
	LTE FDD Band 7	2 502.5 MHz ~ 2 567.5 MHz
	LTE FDD Band 12	699.7 MHz ~ 715.3 MHz
	LTE FDD Band 13	779.5 MHz ~ 784.5 MHz
	LTE FDD Band 14	790.5 MHz ~ 795.5 MHz
	LTE FDD Band 25 (PCS)	1 850.7 MHz ~ 1 914.3 MHz
	LTE FDD Band 26 Cell)	814.7 MHz ~ 848.3 MHz
	LTE TDD Band 42	3402.5 MHz ~ 3549.5 MHz
	LTE TDD Band 48	3 552.5 MHz ~ 3 697.5 MHz
	LTE FDD Band 66 (AWS)	1 712.5 MHz ~ 1 777.5 MHz
Channel Bandwidths	LTE FDD Band 2 (PCS)	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE FDD Band 4 (AWS)	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE FDD Band 5 (Cell)	1.4 MHz, 3 MHz, 5 MHz, 10 MHz
	LTE FDD Band 7	5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE FDD Band 12	1.4 MHz, 3 MHz, 5 MHz, 10 MHz
	LTE FDD Band 13	5 MHz, 10 MHz
	LTE FDD Band 14	5 MHz, 10 MHz
	LTE FDD Band 25 (PCS)	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE FDD Band 26 Cell)	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz
	LTE TDD Band 42	5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE TDD Band 48	5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE FDD Band 66 (AWS)	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz

Ch. No.& Freq.(MHz)		Low	Mid	High
LTE FDD Band 2 (PCS)	1.4 MHz	1 850.7 (18607)	1 880.0 (18900)	1 909.3 (19193)
	3 MHz	1 851.5 (18615)	1 880.0 (18900)	1 908.5 (19185)
	5 MHz	1 852.5 (18625)	1 880.0 (18900)	1 907.5 (19175)
	10 MHz	1 855.0 (18650)	1 880.0 (18900)	1 905.0 (19150)
	15 MHz	1 857.5 (18675)	1 880.0 (18900)	1 902.5 (19125)
	20 MHz	1 860.0 (18700)	1 880.0 (18900)	1 900.0 (19100)
LTE FDD Band 4 (AWS)	1.4 MHz	1 710.7 (19957)	1 732.5 (20175)	1 754.3 (20393)
	3 MHz	1 711.5 (19965)	1 732.5 (20175)	1 753.5 (20385)
	5 MHz	1 712.5 (19975)	1 732.5 (20175)	1 752.5 (20375)
	10 MHz	1 715.0 (20000)	1 732.5 (20175)	1 750.0 (20350)
	15 MHz	1 717.5 (20025)	1 732.5 (20175)	1 747.5 (20325)
	20 MHz		1 732.5 (20175)	
LTE FDD Band 5 (Cell)	1.4 MHz	824.7 (20407)	836.5 (20525)	848.3 (20643)
	3 MHz	825.5 (20415)	836.5 (20525)	847.5 (20635)
	5 MHz	826.5 (20425)	836.5 (20525)	846.5 (20625)
	10 MHz		836.5 (20525)	
LTE FDD Band 7	5 MHz	2502.5 (20775)	2535 (21100)	2567.5 (21425)
	10 MHz	2505 (20800)	2535 (21100)	2565 (21400)
	15 MHz	2507.5 (20825)	2535 (21100)	2562.5 (21375)
	20 MHz	2510 (20850)	2535 (21100)	2560 (21350)
LTE FDD Band 12	1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)
	3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)
	5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)
	10 MHz		707.5 (23095)	
LTE FDD Band 13	5 MHz	779.5 (23205)	782 (23230)	784.5 (23255)
	10 MHz		782 (23230)	
LTE FDD Band 14	5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)
	10 MHz		793 (23330)	
LTE FDD Band 25(PCS)	1.4 MHz	1 850.7 (26047)	1 882.5 (26365)	1 914.3 (26683)
	3 MHz	1 851.5 (26055)	1 882.5 (26365)	1 913.5 (26675)
	5 MHz	1 852.5 (26065)	1 882.5 (26365)	1 912.5 (26665)
	10 MHz	1 855 (26090)	1 882.5 (26365)	1 910 (26640)
	15 MHz	1 857.5 (26115)	1 882.5 (26365)	1 907.5 (26615)
	20 MHz	1 860 (26140)	1 882.5 (26365)	1 905 (26590)
LTE FDD Band 26 (Cell)	1.4 MHz	814.7 (26697)	831.5 (26865)	848.3 (27033)
	3 MHz	815.5 (26705)	831.5 (26865)	847.5 (27025)
	5 MHz	816.5 (26715)	831.5 (26865)	846.5 (27015)
	10 MHz	819.0 (26740)	831.5 (26865)	844.0 (26990)
	15 MHz		831.5 (26865)	

Ch. No.& Freq.(MHz)	Low	Mid	High
LTE FDD Band 66 (AWS)	1.4 MHz	1 710.7 (131979)	1 745 (132322)
	3 MHz	1 711.5 (131987)	1 745 (132322)
	5 MHz	1 712.5 (131997)	1 745 (132322)
	10 MHz	1 715.0 (132022)	1 745 (132322)
	15 MHz	1 717.5 (132047)	1 745 (132322)
	20 MHz	1 720.0 (132072)	1 745 (132322)
LTE TDD Band 42	5 MHz	3402.5(41615)	3452.5(42115)
	10 MHz	3405(41640)	3455(42140)
	15 MHz	3407.5(41665)	3457.5(42165)
	20 MHz	3410(41690)	3460(42190)
LTE TDD Band 48	5 MHz	3 552.5(55265)	3 600.8(55748)
	10 MHz	3 555(55290)	3 601.7(55757)
	15 MHz	3 557.5(55315)	3 602.5(55765)
	20 MHz	3 560(55340)	3 603.3(55773)

Item.	Description
UE Category	LTE Rel. 15, UL Category 13 DL Category 16
Modulations Supported in UL	QPSK, 16QAM, 64QAM
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3	Yes
A-MPR disabled for SAR Testing.	Yes
LTE Carrier Aggregation	Intra-Band & Inter-band DL CA, and LAA are supported. Wi-Fi offloading using LTE-U and LWA is not supported. The technical description includes all the possible carrier aggregation combinations.
LTE Release 15 Additional Information	This device does not support full feature on 3GPP Release 15 All uplink communications are identical to the Release 8 specifications. The following LTE release 10 features are not supported: Replay, HetNet, Enhanced MIMO, eICI, WIFI offloading, MDH, eMBHA, Cross-Carrier Scheduling, Enhanced SC-FDMA.

4.7 DUT Antenna Locations



4.8 SAR Summation Scenario for Host Model



Simultaneous transmission paths

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB 447498 D01v06.

Simultaneous Transmission Scenarios	
Applicable Combination	Body Exposure Condition
UMTS+2.4 GHz Wi-Fi #1(Main) + 2.4 GHz Wi-Fi #2(Aux)	Yes
LTE+2.4 GHz Wi-Fi #1(Main) + 2.4 GHz Wi-Fi #2(Aux)	Yes
UMTS+2.4 GHz Wi-Fi #1(Main) + 2.4 GHz Bluetooth(Aux)	Yes
LTE+2.4 GHz Wi-Fi #1(Main) + 2.4 GHz Bluetooth(Aux)	Yes
UMTS+5 GHz Wi-Fi #1(Main) + 5 GHz Wi-Fi #2(Aux)	Yes
LTE+5 GHz Wi-Fi #1(Main) + 5 GHz Wi-Fi #2(Aux)	Yes
UMTS+5 GHz Wi-Fi #1(Main) + 5 GHz Wi-Fi #2(Aux) + 2.4 GHz Bluetooth(Aux)	Yes
LTE+5 GHz Wi-Fi #1(Main) + 5 GHz Wi-Fi #2(Aux) + 2.4 GHz Bluetooth(Aux)	Yes
UMTS+6 GHz Wi-Fi #1(Main) + 6 GHz Wi-Fi #2(Aux)	Yes
LTE+6 GHz Wi-Fi #1(Main) + 6 GHz Wi-Fi #2(Aux)	Yes
UMTS+6 GHz Wi-Fi #1(Main) + 6 GHz Wi-Fi #2(Aux) + 2.4 GHz Bluetooth(Aux)	Yes
LTE+6 GHz Wi-Fi #1(Main) + 6 GHz Wi-Fi #2(Aux) + 2.4 GHz Bluetooth(Aux)	Yes

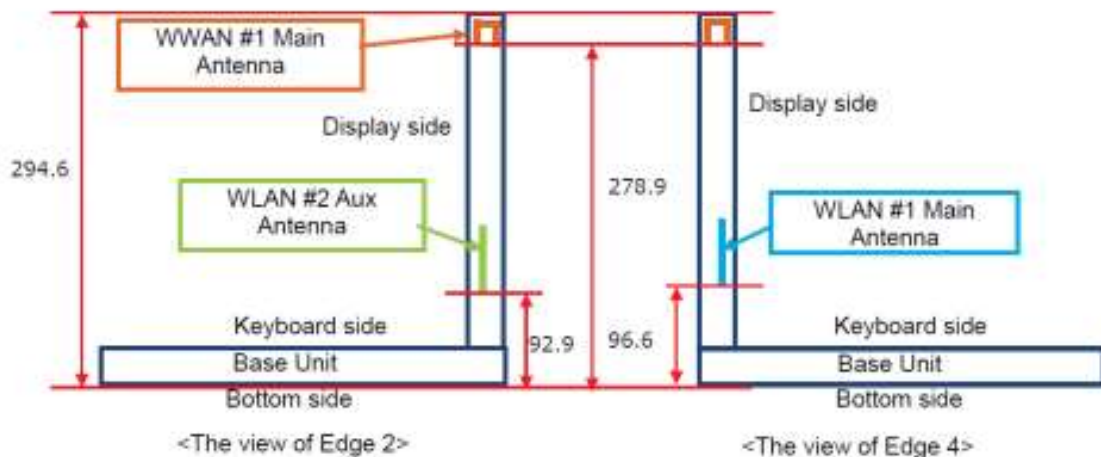
1. All licensed modes share the same antenna path and cannot transmit simultaneously.
2. The highest reported SAR for each exposure condition is used for SAR summation purpose.

5. SAR Test Considerations within Host Platform

5.1 Laptop host platform test requirements Per KDB Publication 447498 D01v06 and 616217 D04v01r02

The required minimum test separation distance for incorporating transmitters and antennas into laptop, notebook and netbook computer displays is determined with the display screen opened at an angle of 90° to the keyboard compartment. When antennas are incorporated in the keyboard section of a laptop computer, SAR is required for the Edge 3 surface of the keyboard. Provided tablet use conditions are not supported by the laptop computer, SAR tests for bystander exposure from the edges of the keyboard and display screen of laptop computers are generally not required

While users would normally keep the display open at angles greater than 90°degrees, for SAR testing purposes and to maintain conservativeness, we keep the display open at 90°degrees from the keyboard to perform the SAR measurement.



Considering the distance between the antenna of the WWAN and the Edge 3 side of the DUT, the SAR test of the WWAN was omitted according to KDB 447498 D01 and KDB 616217.

Test Configurations for the WWAN Main Module within Host

Test Configurations	Antenna-to-edge/surface	SAR Required	Note
Edge 3 Side (Laptop Mode)	278.9 mm	No	SAR is not required since separation distance from antenna to user is more far away

Per FCC KDB Publication 616217 D04v01r02, the Edge 3 surface should be tested for SAR compliance with the Laptop touching the phantom. The SAR Exclusion Threshold in KDB 447498 D01v06 can be applied to determine SAR test exclusion for adjacent edge configurations. The closet distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom

5.2 Estimated SAR Configurations

Antenna	RAI	Band	Frequency (MHz)	Output Power or ERP		Separation Distance (mm)								Device Configurations for SAR Testing							
				dBm	mW	Edge1	Edge2	Edge3	Edge4	Rear	Rear Tilt	Edge2 Tilt	Edge4 Tilt	Edge1	Edge2	Edge3	Edge4	Rear	Edge2 Tilt	Edge4 Tilt	
Wearable Antenna	UMTS	B2	1907.8	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	UMTS	B4	1752.6	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	UMTS	B5	846.8	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	LTE	B2	1909.3	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	LTE	B4	1754.3	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	LTE	B5	846.5	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	LTE	B7	2567.5	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	LTE	B12	713.5	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	LTE	B13	704.5	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	LTE	B14	795.5	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	LTE	B17	713.5	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	LTE	B25	1914.3	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	LTE	B36	848.3	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	LTE	B42	3500	38	63	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	LTE	B48	1697.5	38	63	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	
	LTE	B66	1779.3	23	200	2.1	170.7	227.8	24.7	4.25	2.1	N/A	N/A	YES	*YES	NO	YES	YES	*YES	YES	

Note; All test configurations are based on front view

Per FCC KDB Publication 616217 D04v01r02, the rear surface and edges of tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR Exclusion Threshold in KDB 447498 D01v06 can be applied to determine SAR test exclusion for adjacent edge configurations. The closet distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

Since the Dedicated Host Approach is applied, the standalone SAR test exclusion procedure in KDB447498 4.3.1 is applied in conjunction with KDB 616217 D04v01r02 4.3 to determine the minimum test separation distance:

This device was tested considering the Rear/left/right/top side for simultaneous transmission analysis of multiple transmitter conditions. The bottom side of the upper antenna excluded according to KDB 616217.

5.3 Test Configurations for the WWAN #1 Main Antenna

Tablet Mode:

Test Configurations	Antenna-to-edge/surface	SAR Required	Note
Rear	4.25 mm	Yes	-
Front	-	No	SAR is not required as this is not a typical use scenario.
Edge 1	2.1 mm	Yes	-
Edge 2	170.7 mm	Yes	Due to simultaneous transmission SAR analysis with WLAN MIMO, this position was tested even standalone SAR is excluded by SAR test exclusion consideration.
Edge 3	227.8 mm	No	SAR is not required since calculated threshold value is higher than maximum output power.
Edge 4	24.7 mm	Yes	-
Edge 2 Tilt	-	Yes	Due to simultaneous transmission SAR analysis with WLAN MIMO, this position was tested even standalone SAR is excluded by SAR test exclusion consideration.
Edge 4 Tilt	-	Yes	Due to simultaneous transmission SAR analysis with WLAN MIMO, this position was tested even standalone SAR is excluded by SAR test exclusion consideration.
Edge 1 Tilt	2.1 mm	No	-

LEGEND:

Edge 1 = Top Edge
 Edge 2 = Right Edge
 Edge 3 = Bottom Edge
 Edge 4 = Left Edge
 Rear = Rear of display

6. Introduction

The FCC has adopted the guidelines for evaluating the environmental effects of radio frequency radiation in ET Docket 93-62 on Aug. 6, 1996 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices.

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz, 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York 10017. The measurement procedure described in IEEE/ANSI C95.3-1992 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave is used for guidance in measuring SAR due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields," NCRP Report No. 86 NCRP, 1986, Bethesda, MD 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

SAR Definition

Specific Absorption Rate (SAR) is defined as the time derivative of the incremental electromagnetic energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body.

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

Figure 1. SAR Mathematical Equation

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

Where:

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

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

7. Description of test equipment

7.1 SAR MEASUREMENT SETUP

These measurements are performed using the DASY4 automated dosimetric assessment system. It is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland. It consists of high precision robotics system (Staubli), robot controller, Pentium III computer, near-field probe, probe alignment sensor, and the generic twin phantom containing the brain equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF) (see Figure.2).

A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The PC with Windows XP or Windows 7 is working with SAR Measurement system DASY4 & DASY5, A/D interface card, monitor, mouse, and keyboard. The Staubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

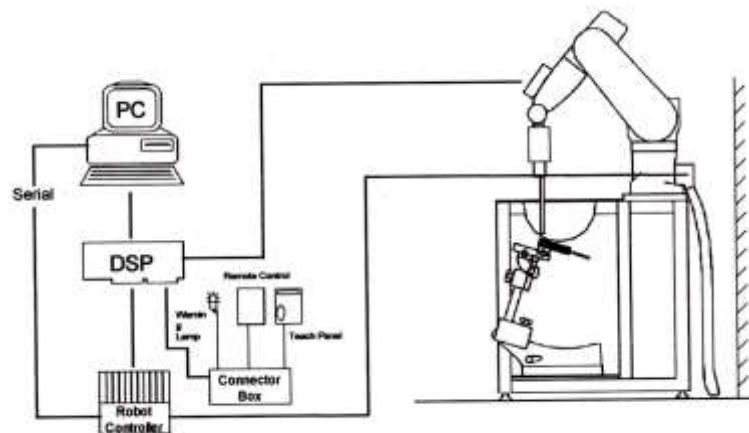


Figure 2. HCT SAR Lab. Test Measurement Set-up

The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer. The system is described in detail in.

8. SAR Measurement Procedure

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

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

Area scan and zoom scan resolution setting follow KDB 865664 D01v01r04 quoted below.

			$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			$5 \pm 1 \text{ mm}$	$\cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location			$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan Spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$			$\leq 2 \text{ GHz: } \leq 15 \text{ mm}$ $2\text{-}3 \text{ GHz: } \leq 12 \text{ mm}$	$3\text{-}4 \text{ GHz: } \leq 12 \text{ mm}$ $4\text{-}6 \text{ GHz: } \leq 10 \text{ mm}$
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan Spatial resolution: $\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$			$\leq 2 \text{ GHz: } \leq 8 \text{ mm}$ $2\text{-}3 \text{ GHz: } \leq 5 \text{ mm}^*$	$3\text{-}4 \text{ GHz: } \leq 5 \text{ mm}^*$ $4\text{-}6 \text{ GHz: } \leq 4 \text{ mm}^*$
Maximum zoom scan Spatial resolution normal to phantom surface	uniform grid: $\Delta z_{\text{zoom}}(n)$		$\leq 5 \text{ mm}$	$3\text{-}4 \text{ GHz: } \leq 4 \text{ mm}$ $4\text{-}5 \text{ GHz: } \leq 3 \text{ mm}$ $5\text{-}6 \text{ GHz: } \leq 2 \text{ mm}$
	graded grid	$\Delta z_{\text{zoom}}(1)$: between 1 st two Points closest to phantom surface	$\leq 4 \text{ mm}$	$3\text{-}4 \text{ GHz: } \leq 3 \text{ mm}$ $4\text{-}5 \text{ GHz: } \leq 2.5 \text{ mm}$ $5\text{-}6 \text{ GHz: } \leq 2 \text{ mm}$
		$\Delta z_{\text{zoom}}(n > 1)$: between subsequent Points	$\leq 1.5 \cdot \Delta z_{\text{zoom}}(n - 1)$	
Minimum zoom scan volume	x, y, z		$\geq 30 \text{ mm}$	$3\text{-}4 \text{ GHz: } \geq 28 \text{ mm}$ $4\text{-}5 \text{ GHz: } \geq 25 \text{ mm}$ $5\text{-}6 \text{ GHz: } \geq 22 \text{ mm}$
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 KDB447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ 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. RF Exposure Limits

HUMAN EXPOSURE	UNCONTROLLED ENVIRONMENT General Population (W/kg)	CONTROLLED ENVIRONMENT Occupational (W/kg)
The SAR averaged over the whole body mass.	0.08	0.4
The peak spatially-averaged SAR for the head, neck and trunk, averaged over any 1 g of tissue*	1.6	8
The peak spatially-averaged SAR in the limbs, averaged over any 10 g of tissue*	4	20

SAR Human Exposure Specific in Health Canada Safety Code 6

NOTES:

* Defined as a tissue volume in the shape of a cube.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

10. FCC SAR General Measurement Procedures

Power Measurements for licensed transmitters are performed using a base simulator under digital average power.

10.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as Reported SAR. The highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

10.2 SAR Measurement Conditions for UMTS

10.2.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in sec. 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all "1s" or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

10.2.2 Body SAR measurements

SAR for body exposure configurations is measured using the 12.2kbps RMC with the TPC bits all "1s". the 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using and applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported SAR configuration in 12.2kbps RMC.

10.2.3 SAR Measurements with Rel. 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using and FRC with H-SET 1 in Sub-test and a 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to release 6 HSPA test procedures. 8.4.5 SAR Measurement with Rel.6 HSUPA The 3G SAR test Reduction Procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, Using H-Set 1 and QPSK for FRC and a 12.2kbps RMC configured in Test Loop Mode 1 and Power Control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA. When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

10.2.4 SAR Measurements with Rel. 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5,

using H-Set1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

10.3.5DC-HSDPA

SAR is required for Rel.8 DC-HSDPA when SAR is required for Rel.5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in table C.8.1.12 of 3GPP TS34.121-1 to determine SAR test reduction. Primary and secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

DC-HSDPA Configurations

- ◆ 3GPP specification TS 34.121-1 Release 8, was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK)was conformed to be used during DC-HSDPA measurements.



10.4 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r05publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluation SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

10.4.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

10.4.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36. 101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

10.4.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

10.4.4 Required RB Size and RB offsets for SAR testing

According to FCC KDB 941225 D05v02r05

- a. Per sec 4.2.1, SAR is required for QPSK 1 RB Allocation for the largest Bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/Kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Sec 4.2.2, SAR is required for 50% RB allocation using the largest Bandwidth following the same procedures outlined in Sec 4.2.1.

- c. Per Sec. 4.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is $< 0.8 \text{ W/kg}$.
- d. Per Sec. 4.2.4 and 4.3, SAR test for higher order modulations and lower Bandwidths configurations are not required when the conducted power of the required test configurations determined by Sec. 4.2.1 through 4.2.3 is less than or equal to 1/2 dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is $< 1.45 \text{ W/Kg}$.

10.4.5 Downlink Carrier Aggregation

Conducted power measurements with LTE Carrier aggregation (CA) downlink only active are made in accordance to KDB publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. For every supported combination of downlink only carrier aggregation, additional conducted output Powers are measured with downlink carrier aggregation active for the configuration with highest measured maximum conducted power with the downlink carrier aggregation inactive measured among the channel Bandwidth, modulation and RB combinations in each frequency Band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25dB higher than the average output power with downlink only carrier aggregation inactive.

10.4.6 LTE(TDD) Considerations

According to KDB 941225 D05v02r05, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33 %) using Uplink-downlink configuration 0 and Special subframe configuration 6. LTE TDD Band 41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special sub frame configurations.

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

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

Table 4.2-2: 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

Calculated Duty Cycle – Extended cyclic prefix in uplink $\times (T_s) \times$ no of S + no of U

Example for calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = $(5120 \times (1/(15000 \times 2048)) \times 2 + 0.006)/0.01 \times 100 \% = 63.33 \%$

Where

$T_s = 1/(15000 \times 2048)$ seconds

10.4.7 The Call Box Setup for LTE(TDD)

When you Want to Test for LTE TDD, Please Change Frame Structure TDD and TDD Uplink Downlink Configuration 0 and Special Subframe Configuration 6.

2018/01/08 11:00 Idle(Regist) Phone-2 Phone-1
<Fundamental Measurement> Output Main Continuous W-CDMA LTE

Parameter Fundamental UE Report

Reference Signal not found UE Power : -21.5 dBm

Power Measurement (Meas. Count : 11/ 20)

	Avg.	Max.	Min.	Limit
TX Power	*****	*****	*****	dBm 20.3 to 25.7 dBm
Channel Power	*****	*****	*****	dBm

Modulation Analysis View (Meas. Count : 1/ 1)

Common Parameter

Test Parameter TX1 - Max. Power(QPSK/1 RB)

Call Processing On Scenario Normal

Frequency

Frame Structure TDD

Channel Bandwidth FDD Hz

UL Channel & Frequency TDD 20 CH = 2593.000000 MHz

DL Channel & Frequency 40620 CH = 2593.000000 MHz

Operation Band 41

Frequency Separation (0)MHz

Level

Input Level 30.0 dBm

Parameter

Common

Physical Channel

Call Processing

TX Measurement Setup

RX Measurement Setup

Fundamental Measurement

1 2 3 4

2018/01/08 11:01 Idle(Regist) Phone-2 Phone-1
<Fundamental Measurement> Output Main Continuous W-CDMA LTE

Parameter Fundamental UE Report

Reference Signal not found UE Power : -21.5 dBm

Power Measurement (Meas. Count : 11/ 20)

	Avg.	Max.	Min.	Limit
TX Power	*****	*****	*****	dBm 20.3 to 25.7 dBm
Channel Power	*****	*****	*****	dBm

Modulation Analysis View (Meas. Count : 1/ 1)

MCS Index (-) 5 (QPSK) (5) (2216) - -

MCS Index (5) 5 (QPSK) (5) (1864) 4 -

MCS Index (0) 5 (QPSK) (5) (2216) - 2

MCS Index (1,6) N/A (-----) (--) (-----) - 2

CFI 3

TDD subframe 0 1 2 3 4 5 6 7 8 9

Uplink Downlink Configuration 0 : (5ms) D S U U U D S U U U

Special Subframe Configuration 6

Physical Channel Parameter

PSS Power	0.0 dB
SSS Power	0.0 dB
PBCH Power	0.0 dB
PCFICH Power	0.0 dB
PHICH Power	0.0 dB

Parameter

Common

Physical Channel

Call Processing

TX Measurement Setup

RX Measurement Setup

Fundamental Measurement

1 2 3 4

11. Output Power Specifications

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB publication 447498 D01v06.

Licensed Bands

Test Description	Test Procedure Used
Conducted Output Power	- KDB 971168 D01 v03r01 - Section 5.2.4 - ANSI C63.26-2015 - Section 5.2.1 & 5.2.4.2

Test Overview

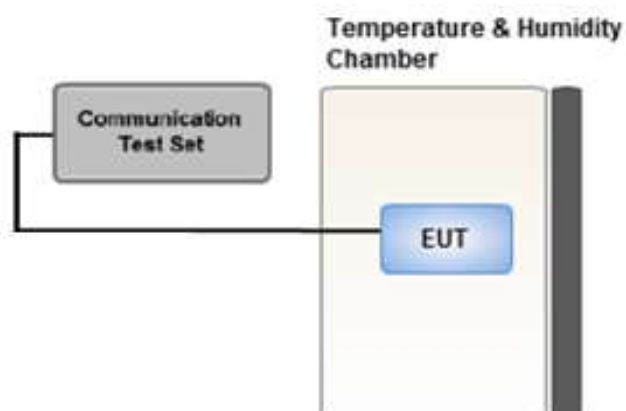
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base station emulator, communications test set, call box, or similar instrumentation that is capable of establishing a communications link with the EUT to enable control over variable parameters (e.g., output power, OBW, etc.).

In some cases, these instruments also include basic digital spectrum analyzer and/or power meter capabilities that can be utilized to measure the RF output power if the specified detectors and requirements can be realized and the measurement functions have been calibrated.

Test Procedure

1. The RF port of the EUT was connected to the Communication Tester via an RF cable.
2. Conducted average power was measured using a calibrated Radio Communication Tester.

Test setup



11.2 UMTS Maximum Output Power

HSPA+

This DUT is only capable of QPSK HSPA+ in uplink. Therefore, the RF conducted power is not measured according to 941225 D01v03r01 3G SAR.

11.2.1 UMTS Maximum Conducted Output Power

UMTS Band 5 Maximum Conducted Output Power

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 5 [dBm]			3GPP MPR
		Subtest	UL4132 DL4357	UL4183 DL4408	UL4233 DL4458	
99	UMTS	12.2 kbps RMC	23.82	23.83	23.71	-
5	HSDPA	Subtest 1	22.41	22.32	22.35	0
5		Subtest 2	22.38	22.24	22.29	0
5		Subtest 3	21.92	21.87	21.83	0.5
5		Subtest 4	21.76	21.85	21.80	0.5
6	HSUPA	Subtest 1	22.88	22.91	22.83	0
6		Subtest 2	20.76	20.90	20.82	2
6		Subtest 3	21.79	21.88	21.74	1
6		Subtest 4	20.83	20.93	20.76	2
6		Subtest 5	22.74	22.87	22.79	0
8	DC-HSDPA	Subtest1	22.04	22.08	22.01	0
8		Subtest2	21.94	22.06	22.03	0
8		Subtest3	21.38	21.47	21.39	0.5
8		Subtest4	21.19	21.32	21.24	0.5

UMTS Average Conducted output powers

UMTS Band 5 Reduced Conducted Output Power (Grip back Activated)

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 5 [dBm]			3GPP MPR
		Subtest	UL4132 DL4357	UL4183 DL4408	UL4233 DL4458	
99	UMTS	12.2 kbps RMC	18.30	18.42	18.39	-
5	HSDPA	Subtest 1	17.25	17.21	17.32	0
5		Subtest 2	17.19	17.17	17.21	0
5		Subtest 3	16.44	16.51	16.48	0.5
5		Subtest 4	16.50	16.65	16.52	0.5
6	HSUPA	Subtest 1	16.98	17.11	17.04	0
6		Subtest 2	15.17	15.21	15.11	2
6		Subtest 3	16.21	16.35	16.17	1
6		Subtest 4	15.27	15.46	15.33	2
6		Subtest 5	16.71	16.91	16.83	0
8	DC-HSDPA	Subtest1	16.45	16.65	16.54	0
8		Subtest2	16.38	16.53	16.44	0
8		Subtest3	15.82	15.91	15.69	0.5
8		Subtest4	15.77	15.87	15.71	0.5

UMTS Average Conducted output powers

UMTS Band 4 Maximum Conducted Output Power

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 4 [dBm]			3GPP MPR
		Subtest	UL 1312 DL 1537	UL 1412 DL 1637	UL 1513 DL 1738	
99	UMTS	12.2 kbps RMC	15.04	15.17	15.08	-
5	HSDPA	Subtest 1	14.28	14.39	14.26	0
5		Subtest 2	14.09	14.24	14.19	0
5		Subtest 3	13.54	13.74	13.58	0.5
5		Subtest 4	13.44	13.61	13.60	0.5
6	HSUPA	Subtest 1	14.24	14.32	14.21	0
6		Subtest 2	12.18	12.31	12.19	2
6		Subtest 3	13.36	13.41	13.27	1
6		Subtest 4	12.20	12.49	12.27	2
6		Subtest 5	14.17	14.30	14.21	0
8	DC-HSDPA	Subtest1	13.28	13.66	13.51	0
8		Subtest2	13.25	13.44	13.42	0
8		Subtest3	13.07	13.16	13.11	0.5
8		Subtest4	12.96	13.08	12.89	0.5

UMTS Average Conducted output powers

UMTS Band 4 Reduced Conducted Output Power (Grip back Activated)

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 4 [dBm]			3GPP MPR
		Subtest	UL 1312 DL 1537	UL 1412 DL 1637	UL 1513 DL 1738	
99	UMTS	12.2 kbps RMC	23.57	23.76	23.56	-
5	HSDPA	Subtest 1	22.04	22.07	21.74	0
5		Subtest 2	21.74	21.86	21.61	0
5		Subtest 3	20.84	20.89	20.80	0.5
5		Subtest 4	20.79	20.91	20.84	0.5
6	HSUPA	Subtest 1	22.44	22.52	22.46	0
6		Subtest 2	20.52	20.57	20.43	2
6		Subtest 3	21.51	21.52	21.47	1
6		Subtest 4	20.38	20.51	20.31	2
6		Subtest 5	22.38	22.53	22.34	0
8	DC-HSDPA	Subtest1	21.74	21.89	21.77	0
8		Subtest2	21.82	21.84	21.76	0
8		Subtest3	21.28	21.33	21.22	0.5
8		Subtest4	21.09	21.18	21.13	0.5

UMTS Average Conducted output powers

UMTS Band 2 Maximum Conducted Output Power

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 2 [dBm]			3GPP MPR
		Subtest	UL9262 DL9662	UL9400 DL9800	UL9538 DL9938	
99	UMTS	12.2 kbps RMC	23.04	23.29	23.14	-
5	HSDPA	Subtest 1	21.60	21.74	21.69	0
5		Subtest 2	21.52	22.07	21.74	0
5		Subtest 3	20.74	20.83	20.59	0.5
5		Subtest 4	20.45	20.65	20.61	0.5
6	HSUPA	Subtest 1	21.98	22.07	21.76	0
6		Subtest 2	20.04	20.12	20.06	2
6		Subtest 3	20.98	21.04	21.01	1
6		Subtest 4	20.17	20.31	20.28	2
6		Subtest 5	21.99	22.11	22.00	0
8	DC-HSDPA	Subtest 1	21.08	21.11	21.04	0
8		Subtest2	21.01	21.05	21.03	0
8		Subtest3	20.43	20.54	20.44	0.5
8		Subtest4	20.54	20.59	20.38	0.5

UMTS Average Conducted output powers

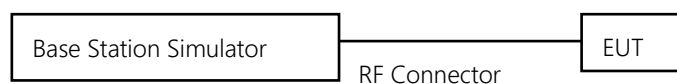
UMTS Band 2 Reduced Conducted Output Power (Grip back Activated)

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 2 [dBm]			3GPP MPR
		Subtest	UL9262 DL9662	UL9400 DL9800	UL9538 DL9938	
99	UMTS	12.2 kbps RMC	15.43	15.57	15.41	-
5	HSDPA	Subtest 1	14.43	14.51	14.39	0
5		Subtest 2	14.36	14.45	14.32	0
5		Subtest 3	13.97	14.02	13.89	0.5
5		Subtest 4	13.88	13.95	13.94	0.5
6	HSUPA	Subtest 1	14.24	14.50	14.38	0
6		Subtest 2	12.41	12.53	12.44	2
6		Subtest 3	13.43	13.51	13.42	1
6		Subtest 4	12.47	12.61	12.55	2
6		Subtest 5	14.43	14.52	14.38	0
8	DC-HSDPA	Subtest 1	13.34	13.50	13.44	0
8		Subtest2	13.32	13.41	13.30	0
8		Subtest3	12.85	13.01	12.95	0.5
8		Subtest4	12.77	12.97	12.79	0.5

UMTS Average Conducted output powers

HSDPA Configurations

- ◆ 3GPP specification TS 34.121-1 Release 8. was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK)was conformed to be used during DC-HSDPA measurements.



11.3 LTE Maximum Output Power

LTE FDD B4/B5/B12/B13/B14/B26 at Max Bandwidth does not support three non-overlapping channels. Per KDB 941225 D05v02r05 when a device supports overlapping channel assignment in a channel Bandwidth configuration, the mid channel of the group of overlapping channels should be selected for testing.

11.3.1 LTE Maximum Conducted Power

LTE FDD Band 2 Maximum Conducted Power

LTE FDD Band 2 _ 1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18607 Ch. 1850.7 MHz	18900 Ch. 1880 MHz	19193 Ch. 1909.3 MHz		
1.4 MHz	QPSK	1	0	22.58	22.66	22.57	0	0
		1	3	22.73	22.72	22.65	0	0
		1	5	22.63	22.62	22.55	0	0
		3	0	22.64	22.64	22.65	0	0
		3	1	22.66	22.68	22.67	0	0
		3	3	22.64	22.62	22.64	0	0
	16QAM	6	0	21.69	21.61	21.63	0-1	1
		1	0	21.94	21.93	21.99	0-1	1
		1	3	22.11	22.07	22.04	0-1	1
		1	5	21.95	21.87	21.87	0-1	1
		3	0	21.74	21.68	21.66	0-1	1
		3	1	21.69	21.66	21.70	0-1	1
		3	3	21.71	21.68	21.63	0-1	1
		6	0	20.78	20.68	20.73	0-2	2
	64QAM	1	0	20.82	20.83	20.87	0-2	2
		1	3	20.97	20.87	20.99	0-2	2
		1	5	20.82	20.84	20.79	0-2	2
		3	0	20.76	20.74	20.77	0-2	2
		3	1	20.84	20.83	20.86	0-2	2
		3	3	20.79	20.80	20.77	0-2	2
		6	0	19.68	19.65	19.67	0-3	3

LTE FDD Band 2 _ 3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18615 Ch. 1851.5 MHz	18900 Ch. 1880 MHz	19185 Ch. 1908.5 MHz		
3 MHz	QPSK	1	0	22.71	22.67	22.69	0	0
		1	7	22.84	22.77	22.80	0	0
		1	14	22.68	22.68	22.68	0	0
		8	0	21.77	21.72	21.73	0-1	1
		8	3	21.74	21.75	21.78	0-1	1
		8	7	21.73	21.71	21.74	0-1	1
		15	0	21.76	21.69	21.72	0-1	1
	16QAM	1	0	21.98	21.97	21.96	0-1	1
		1	7	22.05	22.14	22.10	0-1	1
		1	14	21.99	22.02	21.95	0-1	1
		8	0	20.78	20.78	20.84	0-2	2
		8	3	20.87	20.83	20.88	0-2	2
		8	7	20.77	20.78	20.87	0-2	2
		15	0	20.76	20.75	20.79	0-2	2
	64QAM	1	0	20.96	20.89	20.98	0-2	2
		1	7	21.05	21.05	20.96	0-2	2
		1	14	20.94	20.90	20.97	0-2	2
		8	0	19.78	19.77	19.82	0-3	3
		8	3	19.78	19.82	19.85	0-3	3
		8	7	19.80	19.79	19.78	0-3	3
		15	0	19.75	19.70	19.76	0-3	3

LTE FDD Band 2_5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18625 Ch. 1852.5 MHz	18900 Ch. 1880 MHz	19175 Ch. 1907.5 MHz		
5 MHz	QPSK	1	0	22.77	22.75	22.72	0	0
		1	12	22.74	22.76	22.75	0	0
		1	24	22.75	22.76	22.71	0	0
		12	0	21.76	21.72	21.77	0-1	1
		12	6	21.76	21.76	21.82	0-1	1
		12	11	21.71	21.73	21.79	0-1	1
		25	0	21.74	21.70	21.74	0-1	1
	16QAM	1	0	22.10	22.11	22.06	0-1	1
		1	12	22.06	22.13	22.06	0-1	1
		1	24	22.02	21.94	21.96	0-1	1
		12	0	20.76	20.77	20.81	0-2	2
		12	6	20.74	20.78	20.85	0-2	2
		12	11	20.74	20.73	20.78	0-2	2
		25	0	20.74	20.75	20.79	0-2	2
	64QAM	1	0	20.90	20.91	20.92	0-2	2
		1	12	20.86	20.94	20.96	0-2	2
		1	24	20.95	20.81	20.82	0-2	2
		12	0	19.83	19.80	19.84	0-3	3
		12	6	19.85	19.80	19.90	0-3	3
		12	11	19.79	19.79	19.83	0-3	3
		25	0	19.75	19.71	19.80	0-3	3

LTE FDD Band 2 _ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18650 Ch. 1855 MHz	18900 Ch. 1880 MHz	19150 Ch. 1905 MHz		
10 MHz	QPSK	1	0	22.73	22.69	22.64	0	0
		1	24	22.75	22.71	22.78	0	0
		1	49	22.68	22.68	22.67	0	0
		25	0	21.74	21.73	21.69	0-1	1
		25	12	21.78	21.74	21.68	0-1	1
		25	24	21.74	21.72	21.75	0-1	1
		50	0	21.74	21.71	21.65	0-1	1
	16QAM	1	0	22.07	22.07	21.89	0-1	1
		1	24	22.08	22.08	22.12	0-1	1
		1	49	22.00	22.00	21.96	0-1	1
		25	0	20.79	20.77	20.71	0-2	2
		25	12	20.78	20.79	20.73	0-2	2
		25	24	20.73	20.74	20.83	0-2	2
		50	0	20.77	20.77	20.69	0-2	2
	64QAM	1	0	20.87	20.86	20.77	0-2	2
		1	24	20.91	20.86	20.92	0-2	2
		1	49	20.81	20.92	20.87	0-2	2
		25	0	19.73	19.74	19.68	0-3	3
		25	12	19.81	19.78	19.72	0-3	3
		25	24	19.75	19.76	19.77	0-3	3
		50	0	19.74	19.72	19.74	0-3	3

LTE FDD Band 2 _ 15 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18675 Ch. 1857.5 MHz	18900 Ch. 1880 MHz	19125 Ch. 1902.5 MHz		
15 MHz	QPSK	1	0	22.72	22.76	22.61	0	0
		1	36	22.67	22.72	22.68	0	0
		1	74	22.61	22.78	22.68	0	0
		36	0	21.76	21.77	21.70	0-1	1
		36	18	21.78	21.79	21.67	0-1	1
		36	39	21.71	21.70	21.70	0-1	1
		75	0	21.73	21.73	21.70	0-1	1
	16QAM	1	0	22.03	22.08	21.88	0-1	1
		1	36	21.94	22.03	21.98	0-1	1
		1	74	21.84	22.01	22.00	0-1	1
		36	0	20.74	20.80	20.71	0-2	2
		36	18	20.73	20.79	20.69	0-2	2
		36	39	20.68	20.75	20.71	0-2	2
		75	0	20.78	20.78	20.72	0-2	2
	64QAM	1	0	20.85	20.88	20.86	0-2	2
		1	36	20.88	20.91	20.78	0-2	2
		1	74	20.82	20.98	20.96	0-2	2
		36	0	19.81	19.84	19.66	0-3	3
		36	18	19.78	19.81	19.77	0-3	3
		36	39	19.75	19.77	19.72	0-3	3
		75	0	19.75	19.73	19.68	0-3	3

LTE FDD Band 2 _ 20 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18700 Ch. 1860 MHz	18900 Ch. 1880 MHz	19100 Ch. 1900 MHz		
20 MHz	QPSK	1	0	22.76	22.70	22.63	0	0
		1	49	22.69	22.70	22.76	0	0
		1	99	22.77	22.73	22.85	0	0
		50	0	21.84	21.72	21.69	0-1	1
		50	25	21.81	21.78	21.84	0-1	1
		50	49	21.77	21.73	21.80	0-1	1
		100	0	21.76	21.70	21.81	0-1	1
	16QAM	1	0	22.14	22.01	21.92	0-1	1
		1	49	22.02	22.05	22.04	0-1	1
		1	99	22.02	22.06	22.18	0-1	1
		50	0	20.86	20.81	20.73	0-2	2
		50	25	20.87	20.80	20.86	0-2	2
		50	49	20.80	20.73	20.82	0-2	2
		100	0	20.81	20.75	20.81	0-2	2
	64QAM	1	0	21.07	20.88	20.78	0-2	2
		1	49	20.92	20.86	20.96	0-2	2
		1	99	20.90	20.95	21.00	0-2	2
		50	0	19.86	19.77	19.71	0-3	3
		50	25	19.84	19.79	19.85	0-3	3
		50	49	19.82	19.73	19.82	0-3	3
		100	0	19.79	19.73	19.80	0-3	3

LTE FDD Band 2 Reduced Conducted Power (Grip Sensor on)

LTE FDD Band 2__ 1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18607 Ch. 1850.7 MHz	18900 Ch. 1880 MHz	19193 Ch. 1909.3 MHz		
1.4 MHz	QPSK	1	0	15.58	15.57	15.59	0	0
		1	3	15.65	15.66	15.62	0	0
		1	5	15.59	15.50	15.56	0	0
		3	0	15.58	15.53	15.64	0	0
		3	1	15.63	15.57	15.64	0	0
		3	3	15.58	15.57	15.58	0	0
		6	0	15.56	15.53	15.63	0-1	0
	16QAM	1	0	15.88	15.84	15.83	0-1	0
		1	3	15.91	15.75	15.87	0-1	0
		1	5	15.89	15.79	15.81	0-1	0
		3	0	15.64	15.60	15.60	0-1	0
		3	1	15.66	15.67	15.63	0-1	0
		3	3	15.60	15.59	15.56	0-1	0
		6	0	15.70	15.67	15.70	0-2	0
	64QAM	1	0	15.75	15.80	15.79	0-2	0
		1	3	15.85	15.86	15.79	0-2	0
		1	5	15.83	15.78	15.69	0-2	0
		3	0	15.75	15.69	15.73	0-2	0
		3	1	15.82	15.69	15.76	0-2	0
		3	3	15.68	15.66	15.67	0-2	0
		6	0	15.63	15.59	15.62	0-3	0

LTE FDD Band 2_ 3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18615 Ch. 1851.5 MHz	18900 Ch. 1880 MHz	19185 Ch. 1908.5 MHz		
3 MHz	QPSK	1	0	15.63	15.61	15.65	0	0
		1	7	15.78	15.73	15.76	0	0
		1	14	15.60	15.61	15.63	0	0
		8	0	15.65	15.62	15.69	0-1	0
		8	3	15.70	15.65	15.68	0-1	0
		8	7	15.65	15.63	15.66	0-1	0
		15	0	15.66	15.62	15.72	0-1	0
	16QAM	1	0	15.94	15.88	15.98	0-1	0
		1	7	15.98	16.07	15.95	0-1	0
		1	14	15.97	15.78	15.87	0-1	0
		8	0	15.78	15.72	15.74	0-2	0
		8	3	15.82	15.75	15.78	0-2	0
		8	7	15.72	15.65	15.73	0-2	0
		15	0	15.69	15.67	15.72	0-2	0
	64QAM	1	0	15.85	15.84	15.91	0-2	0
		1	7	15.91	16.01	16.00	0-2	0
		1	14	15.84	15.78	15.84	0-2	0
		8	0	15.72	15.65	15.73	0-3	0
		8	3	15.79	15.73	15.79	0-3	0
		8	7	15.74	15.72	15.74	0-3	0
		15	0	15.69	15.69	15.71	0-3	0

LTE FDD Band 2_ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18625 Ch. 1852.5 MHz	18900 Ch. 1880 MHz	19175 Ch. 1907.5 MHz		
5 MHz	QPSK	1	0	15.63	15.62	15.65	0	0
		1	12	15.64	15.67	15.65	0	0
		1	24	15.66	15.64	15.61	0	0
		12	0	15.80	15.68	15.70	0-1	0
		12	6	15.67	15.70	15.73	0-1	0
		12	11	15.80	15.67	15.69	0-1	0
		25	0	15.74	15.63	15.70	0-1	0
	16QAM	1	0	16.01	16.00	15.87	0-1	0
		1	12	15.86	15.84	15.98	0-1	0
		1	24	16.05	15.90	15.82	0-1	0
		12	0	15.70	15.67	15.70	0-2	0
		12	6	15.73	15.70	15.75	0-2	0
		12	11	15.76	15.68	15.73	0-2	0
		25	0	15.81	15.69	15.70	0-2	0
	64QAM	1	0	15.89	15.77	15.88	0-2	0
		1	12	15.78	15.89	15.84	0-2	0
		1	24	15.86	15.87	15.73	0-2	0
		12	0	15.78	15.72	15.70	0-3	0
		12	6	15.76	15.70	15.76	0-3	0
		12	11	15.82	15.72	15.74	0-3	0
		25	0	15.79	15.70	15.69	0-3	0

LTE FDD Band 2_ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18650 Ch. 1855 MHz	18900 Ch. 1880 MHz	19150 Ch. 1905 MHz		
10 MHz	QPSK	1	0	15.65	15.62	15.60	0	0
		1	24	15.63	15.57	15.66	0	0
		1	49	15.65	15.60	15.62	0	0
		25	0	15.77	15.67	15.63	0-1	0
		25	12	15.70	15.67	15.65	0-1	0
		25	24	15.75	15.65	15.73	0-1	0
		50	0	15.77	15.65	15.63	0-1	0
	16QAM	1	0	16.10	15.98	15.89	0-1	0
		1	24	16.03	15.93	15.89	0-1	0
		1	49	15.92	15.97	15.93	0-1	0
		25	0	15.79	15.67	15.65	0-2	0
		25	12	15.81	15.70	15.63	0-2	0
		25	24	15.79	15.68	15.72	0-2	0
		50	0	15.72	15.69	15.61	0-2	0
	64QAM	1	0	15.96	15.85	15.70	0-2	0
		1	24	15.97	15.80	15.82	0-2	0
		1	49	15.91	15.76	15.87	0-2	0
		25	0	15.79	15.73	15.64	0-3	0
		25	12	15.80	15.73	15.62	0-3	0
		25	24	15.77	15.68	15.70	0-3	0
		50	0	15.79	15.71	15.66	0-3	0

LTE FDD Band 2_ 15 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18675 Ch. 1857.5 MHz	18900 Ch. 1880 MHz	19125 Ch. 1902.5 MHz		
15 MHz	QPSK	1	0	15.64	15.65	15.54	0	0
		1	36	15.62	15.64	15.53	0	0
		1	74	15.55	15.66	15.70	0	0
		36	0	15.79	15.66	15.59	0-1	0
		36	18	15.72	15.68	15.61	0-1	0
		36	39	15.73	15.63	15.59	0-1	0
		75	0	15.69	15.66	15.63	0-1	0
	16QAM	1	0	16.08	15.88	15.82	0-1	0
		1	36	15.99	15.98	15.82	0-1	0
		1	74	15.99	16.04	15.84	0-1	0
		36	0	15.77	15.72	15.62	0-2	0
		36	18	15.78	15.73	15.64	0-2	0
		36	39	15.63	15.67	15.62	0-2	0
		75	0	15.77	15.71	15.61	0-2	0
	64QAM	1	0	16.01	15.87	15.71	0-2	0
		1	36	15.82	15.90	15.74	0-2	0
		1	74	15.78	15.93	15.83	0-2	0
		36	0	15.78	15.72	15.60	0-3	0
		36	18	15.87	15.77	15.69	0-3	0
		36	39	15.67	15.70	15.65	0-3	0
		75	0	15.79	15.67	15.63	0-3	0

LTE FDD Band 2_ 20 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18700 Ch. 1860 MHz	18900 Ch. 1880 MHz	19100 Ch. 1900 MHz		
20 MHz	QPSK	1	0	15.66	15.62	15.57	0	0
		1	49	15.67	15.61	15.69	0	0
		1	99	15.73	15.65	15.76	0	0
		50	0	15.78	15.68	15.64	0-1	0
		50	25	15.80	15.69	15.81	0-1	0
		50	49	15.75	15.64	15.75	0-1	0
		100	0	15.74	15.64	15.76	0-1	0
	16QAM	1	0	15.96	15.88	15.87	0-1	0
		1	49	16.04	15.89	15.95	0-1	0
		1	99	15.90	15.97	16.01	0-1	0
		50	0	15.80	15.74	15.61	0-2	0
		50	25	15.81	15.67	15.75	0-2	0
		50	49	15.74	15.64	15.74	0-2	0
		100	0	15.76	15.68	15.72	0-2	0
	64QAM	1	0	15.85	15.80	15.68	0-2	0
		1	49	15.90	15.80	15.76	0-2	0
		1	99	15.76	15.79	15.92	0-2	0
		50	0	15.81	15.72	15.66	0-3	0
		50	25	15.77	15.75	15.78	0-3	0
		50	49	15.78	15.71	15.75	0-3	0
		100	0	15.73	15.67	15.70	0-3	0

LTE FDD Band 4 Maximum Conducted Power

LTE FDD Band 4 _ 1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19957 Ch. 1710.7 MHz	20175 Ch. 1732.5 MHz	20393 Ch. 1754.3 MHz		
1.4 MHz	QPSK	1	0	22.65	22.84	22.44	0	0
		1	3	22.76	22.92	22.54	0	0
		1	5	22.73	22.86	22.37	0	0
		3	0	22.76	22.88	22.45	0	0
		3	1	22.78	22.96	22.48	0	0
		3	3	22.71	22.90	22.41	0	0
		6	0	21.79	21.90	21.50	0-1	1
	16QAM	1	0	21.88	22.26	21.67	0-1	1
		1	3	22.07	22.14	21.84	0-1	1
		1	5	21.88	22.17	21.65	0-1	1
		3	0	21.71	21.90	21.48	0-1	1
		3	1	21.86	21.97	21.49	0-1	1
		3	3	21.77	21.90	21.50	0-1	1
		6	0	20.87	20.99	20.62	0-2	2
	64QAM	1	0	20.87	21.10	20.70	0-2	2
		1	3	21.03	21.12	20.81	0-2	2
		1	5	20.93	21.01	20.67	0-2	2
		3	0	20.89	21.08	20.61	0-2	2
		3	1	20.97	21.10	20.76	0-2	2
		3	3	20.88	20.97	20.63	0-2	2
		6	0	19.75	19.92	19.46	0-3	3

LTE FDD Band 4 _ 3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19965 Ch. 1711.5 MHz	20175 Ch. 1732.5 MHz	20385 Ch. 1753.5 MHz		
3 MHz	QPSK	1	0	22.76	22.96	22.46	0	0
		1	7	22.84	23.07	22.54	0	0
		1	14	22.79	22.90	22.42	0	0
		8	0	21.83	21.96	21.52	0-1	1
		8	3	21.83	21.96	21.57	0-1	1
		8	7	21.77	21.94	21.52	0-1	1
		15	0	21.91	21.95	21.58	0-1	1
	16QAM	1	0	21.90	22.25	21.74	0-1	1
		1	7	22.11	22.28	21.98	0-1	1
		1	14	21.97	22.31	21.62	0-1	1
		8	0	20.87	21.04	20.64	0-2	2
		8	3	20.93	21.07	20.67	0-2	2
		8	7	20.87	21.05	20.61	0-2	2
		15	0	20.86	20.99	20.60	0-2	2
	64QAM	1	0	20.96	21.15	20.78	0-2	2
		1	7	21.04	21.30	20.84	0-2	2
		1	14	21.02	21.16	20.70	0-2	2
		8	0	19.84	20.05	19.63	0-3	3
		8	3	19.90	20.08	19.66	0-3	3
		8	7	19.86	20.00	19.61	0-3	3
		15	0	19.85	19.97	19.59	0-3	3

LTE FDD Band 4_5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19975 Ch. 1712.5 MHz	20175 Ch. 1732.5 MHz	20375 Ch. 1752.5 MHz		
5 MHz	QPSK	1	0	22.80	22.96	22.57	0	0
		1	12	22.79	22.96	22.49	0	0
		1	24	22.74	22.86	22.43	0	0
		12	0	21.81	21.99	21.64	0-1	1
		12	6	21.85	22.01	21.62	0-1	1
		12	11	21.85	21.98	21.56	0-1	1
		25	0	21.85	21.96	21.64	0-1	1
	16QAM	1	0	22.07	22.21	21.85	0-1	1
		1	12	22.02	22.19	21.84	0-1	1
		1	24	21.95	22.33	21.81	0-1	1
		12	0	20.84	21.00	20.70	0-2	2
		12	6	20.89	21.08	20.64	0-2	2
		12	11	20.81	21.06	20.64	0-2	2
		25	0	20.83	20.98	20.65	0-2	2
	64QAM	1	0	21.01	21.22	20.83	0-2	2
		1	12	20.98	21.14	20.83	0-2	2
		1	24	20.98	21.18	20.70	0-2	2
		12	0	19.89	20.11	19.68	0-3	3
		12	6	19.94	20.09	19.66	0-3	3
		12	11	19.86	20.06	19.61	0-3	3
		25	0	19.86	19.99	19.71	0-3	3

LTE FDD Band 4 _ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20000 Ch. 1715 MHz	20175 Ch. 1732.5 MHz	20350 Ch. 1750 MHz		
10 MHz	QPSK	1	0	22.77	22.95	22.65	0	0
		1	24	22.74	22.92	22.61	0	0
		1	49	22.76	22.89	22.50	0	0
		25	0	21.84	21.97	21.71	0-1	1
		25	12	21.85	22.00	21.71	0-1	1
		25	24	21.83	21.91	21.69	0-1	1
		50	0	21.86	21.98	21.71	0-1	1
	16QAM	1	0	22.03	22.19	21.92	0-1	1
		1	24	21.99	22.31	21.86	0-1	1
		1	49	22.02	22.14	21.77	0-1	1
		25	0	20.84	21.01	20.69	0-2	2
		25	12	20.88	21.02	20.68	0-2	2
		25	24	20.78	21.00	20.69	0-2	2
		50	0	20.84	21.02	20.68	0-2	2
	64QAM	1	0	20.87	21.12	20.98	0-2	2
		1	24	21.01	21.22	20.94	0-2	2
		1	49	20.90	21.02	20.80	0-2	2
		25	0	19.82	20.00	19.73	0-3	3
		25	12	19.84	20.06	19.72	0-3	3
		25	24	19.81	20.00	19.69	0-3	3
		50	0	19.86	20.01	19.72	0-3	3

LTE FDD Band 4 _ 15 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20025 Ch. 1717.5 MHz	20175 Ch. 1732.5 MHz	20325 Ch. 1747.5 MHz		
15 MHz	QPSK	1	0	22.84	22.93	22.69	0	0
		1	36	22.82	22.93	22.58	0	0
		1	74	22.93	22.85	22.42	0	0
		36	0	21.88	21.94	21.74	0-1	1
		36	18	21.96	22.04	21.64	0-1	1
		36	39	22.03	21.98	21.60	0-1	1
		75	0	21.97	22.01	21.57	0-1	1
	16QAM	1	0	22.12	22.24	22.12	0-1	1
		1	36	22.09	22.32	21.83	0-1	1
		1	74	22.35	22.03	21.89	0-1	1
		36	0	20.89	21.01	20.78	0-2	2
		36	18	20.93	21.03	20.65	0-2	2
		36	39	20.98	21.02	20.64	0-2	2
		75	0	20.97	21.00	20.58	0-2	2
	64QAM	1	0	21.00	21.12	20.83	0-2	2
		1	36	20.98	21.22	20.80	0-2	2
		1	74	21.20	21.17	20.76	0-2	2
		36	0	19.94	20.03	19.82	0-3	3
		36	18	19.99	20.11	19.72	0-3	3
		36	39	20.03	20.02	19.66	0-3	3
		75	0	19.98	20.00	19.65	0-3	3

LTE FDD Band 4 _ 20 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				20175 ch. 1732.5 MHz		
20 MHz	QPSK	1	0	22.90	0	0
		1	49	23.01	0	0
		1	99	22.86	0	0
		50	0	21.98	0-1	1
		50	25	21.96	0-1	1
		50	49	21.95	0-1	1
		100	0	22.00	0-1	1
	16QAM	1	0	22.20	0-1	1
		1	49	22.35	0-1	1
		1	99	22.01	0-1	1
		50	0	21.00	0-2	2
		50	25	21.01	0-2	2
		50	49	21.04	0-2	2
		100	0	21.03	0-2	2
	64QAM	1	0	21.15	0-2	2
		1	49	21.19	0-2	2
		1	99	21.01	0-2	2
		50	0	19.99	0-3	3
		50	25	20.04	0-3	3
		50	49	20.00	0-3	3
		100	0	19.99	0-3	3

LTE FDD Band 4 Reduced Conducted Power (Grip Sensor on)

LTE FDD Band 4_ 1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19957 Ch. 1710.7 MHz	20175 Ch. 1732.5 MHz	20393 Ch. 1754.3 MHz		
1.4 MHz	QPSK	1	0	15.29	15.36	14.91	0	0
		1	3	15.39	15.47	15.01	0	0
		1	5	15.34	15.28	14.90	0	0
		3	0	15.33	15.36	14.99	0	0
		3	1	15.38	15.38	15.00	0	0
		3	3	15.35	15.34	14.95	0	0
		6	0	15.35	15.35	14.95	0-1	0
	16QAM	1	0	15.62	15.60	15.34	0-1	0
		1	3	15.64	15.77	15.30	0-1	0
		1	5	15.53	15.63	15.28	0-1	0
		3	0	15.34	15.37	14.97	0-1	0
		3	1	15.44	15.37	15.05	0-1	0
		3	3	15.35	15.35	15.06	0-1	0
		6	0	15.45	15.38	15.07	0-2	0
	64QAM	1	0	15.55	15.57	15.09	0-2	0
		1	3	15.57	15.62	15.24	0-2	0
		1	5	15.45	15.56	15.05	0-2	0
		3	0	15.44	15.47	15.07	0-2	0
		3	1	15.51	15.61	15.10	0-2	0
		3	3	15.46	15.52	15.10	0-2	0
		6	0	15.37	15.41	14.96	0-3	0

LTE FDD Band 4_3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19965 Ch. 1711.5 MHz	20175 Ch. 1732.5 MHz	20385 Ch. 1753.5 MHz		
3 MHz	QPSK	1	0	15.41	15.40	14.97	0	0
		1	7	15.47	15.50	15.08	0	0
		1	14	15.41	15.36	15.02	0	0
		8	0	15.42	15.43	15.03	0-1	0
		8	3	15.42	15.44	15.04	0-1	0
		8	7	15.41	15.43	15.00	0-1	0
		15	0	15.42	15.40	14.97	0-1	0
	16QAM	1	0	15.65	15.76	15.27	0-1	0
		1	7	15.75	15.80	15.50	0-1	0
		1	14	15.61	15.62	15.33	0-1	0
		8	0	15.49	15.52	15.14	0-2	0
		8	3	15.50	15.52	15.14	0-2	0
		8	7	15.43	15.55	15.11	0-2	0
		15	0	15.45	15.48	15.09	0-2	0
	64QAM	1	0	15.52	15.60	15.24	0-2	0
		1	7	15.59	15.72	15.34	0-2	0
		1	14	15.49	15.62	15.19	0-2	0
		8	0	15.48	15.53	15.07	0-3	0
		8	3	15.49	15.50	15.11	0-3	0
		8	7	15.40	15.48	15.03	0-3	0
		15	0	15.41	15.46	15.05	0-3	0

LTE FDD Band 4_5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19975 Ch. 1712.5 MHz	20175 Ch. 1732.5 MHz	20375 Ch. 1752.5 MHz		
5 MHz	QPSK	1	0	15.32	15.36	15.13	0	0
		1	12	15.38	15.32	15.03	0	0
		1	24	15.41	15.41	15.01	0	0
		12	0	15.39	15.44	15.15	0-1	0
		12	6	15.46	15.46	15.10	0-1	0
		12	11	15.40	15.46	15.04	0-1	0
		25	0	15.37	15.37	15.10	0-1	0
	16QAM	1	0	15.60	15.88	15.34	0-1	0
		1	12	15.73	15.77	15.38	0-1	0
		1	24	15.60	15.70	15.20	0-1	0
		12	0	15.43	15.48	15.16	0-2	0
		12	6	15.45	15.49	15.12	0-2	0
		12	11	15.38	15.48	15.11	0-2	0
		25	0	15.39	15.45	15.16	0-2	0
	64QAM	1	0	15.51	15.63	15.28	0-2	0
		1	12	15.54	15.63	15.25	0-2	0
		1	24	15.49	15.63	15.25	0-2	0
		12	0	15.43	15.50	15.19	0-3	0
		12	6	15.45	15.56	15.11	0-3	0
		12	11	15.46	15.48	15.14	0-3	0
		25	0	15.38	15.46	15.17	0-3	0

LTE FDD Band 4_10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20000 Ch. 1715 MHz	20175 Ch. 1732.5 MHz	20350 Ch. 1750 MHz		
10 MHz	QPSK	1	0	15.36	15.42	15.11	0	0
		1	24	15.36	15.49	15.11	0	0
		1	49	15.32	15.32	14.99	0	0
		25	0	15.38	15.42	15.13	0-1	0
		25	12	15.42	15.44	15.13	0-1	0
		25	24	15.36	15.40	15.11	0-1	0
		50	0	15.36	15.38	15.13	0-1	0
	16QAM	1	0	15.60	15.72	15.52	0-1	0
		1	24	15.68	15.68	15.59	0-1	0
		1	49	15.71	15.58	15.30	0-1	0
		25	0	15.40	15.45	15.18	0-2	0
		25	12	15.44	15.50	15.19	0-2	0
		25	24	15.40	15.48	15.15	0-2	0
		50	0	15.38	15.45	15.17	0-2	0
	64QAM	1	0	15.48	15.60	15.40	0-2	0
		1	24	15.58	15.63	15.28	0-2	0
		1	49	15.45	15.51	15.18	0-2	0
		25	0	15.44	15.47	15.20	0-3	0
		25	12	15.43	15.51	15.19	0-3	0
		25	24	15.42	15.48	15.16	0-3	0
		50	0	15.39	15.47	15.17	0-3	0

LTE FDD Band 4_15 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20025 Ch. 1717.5 MHz	20175 Ch. 1732.5 MHz	20325 Ch. 1747.5 MHz		
15 MHz	QPSK	1	0	15.34	15.43	15.19	0	0
		1	36	15.37	15.41	15.08	0	0
		1	74	15.41	15.29	14.96	0	0
		36	0	15.38	15.43	15.19	0-1	0
		36	18	15.42	15.46	15.10	0-1	0
		36	39	15.48	15.44	15.09	0-1	0
		75	0	15.45	15.40	15.06	0-1	0
	16QAM	1	0	15.67	15.76	15.54	0-1	0
		1	36	15.71	15.77	15.40	0-1	0
		1	74	15.77	15.54	15.32	0-1	0
		36	0	15.37	15.45	15.23	0-2	0
		36	18	15.41	15.51	15.15	0-2	0
		36	39	15.48	15.52	15.14	0-2	0
		75	0	15.50	15.50	15.09	0-2	0
	64QAM	1	0	15.50	15.61	15.29	0-2	0
		1	36	15.57	15.61	15.33	0-2	0
		1	74	15.61	15.52	15.11	0-2	0
		36	0	15.42	15.51	15.23	0-3	0
		36	18	15.45	15.52	15.18	0-3	0
		36	39	15.54	15.49	15.12	0-3	0
		75	0	15.46	15.49	15.09	0-3	0

LTE FDD Band 4_ 20 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				20175 Ch. 1732.5 MHz		
20 MHz	QPSK	1	0	15.38	0	0
		1	49	15.45	0	0
		1	99	15.34	0	0
		50	0	15.42	0-1	0
		50	25	15.41	0-1	0
		50	49	15.41	0-1	0
		100	0	15.42	0-1	0
	16QAM	1	0	15.66	0-1	0
		1	49	15.77	0-1	0
		1	99	15.69	0-1	0
		50	0	15.47	0-2	0
		50	25	15.50	0-2	0
		50	49	15.49	0-2	0
		100	0	15.46	0-2	0
	64QAM	1	0	15.58	0-2	0
		1	49	15.66	0-2	0
		1	99	15.55	0-2	0
		50	0	15.47	0-3	0
		50	25	15.50	0-3	0
		50	49	15.52	0-3	0
		100	0	15.47	0-3	0

LTE FDD Band 5 Maximum Conducted Power

LTE FDD Band 5 _ 1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20407 Ch. 824.7 MHz	20525 Ch. 836.5 MHz	20643 Ch. 848.3 MHz		
1.4 MHz	QPSK	1	0	22.93	22.99	22.97	0	0
		1	3	23.04	23.04	22.96	0	0
		1	5	22.90	22.94	22.86	0	0
		3	0	23.00	23.01	22.94	0	0
		3	1	23.05	23.09	23.02	0	0
		3	3	23.00	22.97	22.95	0	0
		6	0	22.10	22.12	22.14	0-1	1
	16QAM	1	0	22.15	22.12	22.12	0-1	1
		1	3	22.26	22.19	22.16	0-1	1
		1	5	22.23	22.22	22.13	0-1	1
		3	0	22.02	22.02	21.95	0-1	1
		3	1	22.04	22.07	22.00	0-1	1
		3	3	21.92	22.01	21.90	0-1	1
		6	0	21.19	21.16	21.11	0-2	2
	64QAM	1	0	21.19	21.10	21.02	0-2	2
		1	3	21.15	21.07	21.04	0-2	2
		1	5	21.12	21.09	20.97	0-2	2
		3	0	21.09	21.05	20.95	0-2	2
		3	1	21.11	21.14	21.04	0-2	2
		3	3	21.07	21.05	21.02	0-2	2
		6	0	20.03	19.96	19.96	0-3	3

LTE FDD Band 5_3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20415 Ch. 825.5 MHz	20525 Ch. 836.5 MHz	20635 Ch. 847.5 MHz		
3 MHz	QPSK	1	0	23.10	23.08	23.05	0	0
		1	7	23.11	23.11	23.11	0	0
		1	14	23.14	23.00	22.97	0	0
		8	0	22.15	22.14	22.14	0-1	1
		8	3	22.25	22.12	22.14	0-1	1
		8	7	22.21	22.09	22.10	0-1	1
		15	0	22.24	22.16	22.16	0-1	1
	16QAM	1	0	22.34	22.31	22.26	0-1	1
		1	7	22.34	22.31	22.22	0-1	1
		1	14	22.38	22.13	22.09	0-1	1
		8	0	21.21	21.22	21.15	0-2	2
		8	3	21.32	21.22	21.20	0-2	2
		8	7	21.27	21.15	21.08	0-2	2
		15	0	21.27	21.18	21.18	0-2	2
	64QAM	1	0	21.19	21.18	21.20	0-2	2
		1	7	21.25	21.28	21.21	0-2	2
		1	14	21.27	21.11	21.05	0-2	2
		8	0	20.11	20.11	20.12	0-3	3
		8	3	20.20	20.15	20.13	0-3	3
		8	7	20.19	20.03	20.06	0-3	3
		15	0	20.18	20.08	20.11	0-3	3

LTE FDD Band 5 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20425 Ch. 826.5 MHz	20525 Ch. 836.5 MHz	20625 Ch. 846.5 MHz		
5 MHz	QPSK	1	0	23.07	23.11	23.03	0	0
		1	12	23.15	23.04	23.05	0	0
		1	24	23.10	23.01	22.93	0	0
		12	0	22.26	22.20	22.12	0-1	1
		12	6	22.26	22.18	22.20	0-1	1
		12	11	22.23	22.14	22.17	0-1	1
		25	0	22.24	22.13	22.05	0-1	1
	16QAM	1	0	22.28	22.35	22.24	0-1	1
		1	12	22.43	22.31	22.35	0-1	1
		1	24	22.26	22.18	22.11	0-1	1
		12	0	21.24	21.16	21.07	0-2	2
		12	6	21.24	21.18	21.19	0-2	2
		12	11	21.16	21.11	21.12	0-2	2
		25	0	21.20	21.14	21.07	0-2	2
	64QAM	1	0	21.17	21.21	21.16	0-2	2
		1	12	21.24	21.14	21.12	0-2	2
		1	24	21.17	21.11	20.99	0-2	2
		12	0	20.22	20.14	20.04	0-3	3
		12	6	20.22	20.12	20.16	0-3	3
		12	11	20.17	20.09	20.09	0-3	3
		25	0	20.14	20.10	20.01	0-3	3

LTE FDD Band 5 _ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				20525 Ch. 836.5 MHz		
10 MHz	QPSK	1	0	23.07	0	0
		1	24	22.98	0	0
		1	49	22.98	0	0
		25	0	22.23	0-1	1
		25	12	22.18	0-1	1
		25	24	22.12	0-1	1
		50	0	22.19	0-1	1
	16QAM	1	0	22.26	0-1	1
		1	24	22.32	0-1	1
		1	49	22.17	0-1	1
		25	0	21.19	0-2	2
		25	12	21.17	0-2	2
		25	24	21.11	0-2	2
		50	0	21.14	0-2	2
	64QAM	1	0	21.19	0-2	2
		1	24	21.16	0-2	2
		1	49	21.15	0-2	2
		25	0	20.14	0-3	3
		25	12	20.09	0-3	3
		25	24	20.07	0-3	3
		50	0	20.11	0-3	3

LTE FDD Band 5 Reduced Conducted Power (Grip Sensor on)

LTE FDD Band 5 _ 1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20407 Ch. 824.7 MHz	20525 Ch. 836.5 MHz	20643 Ch. 848.3 MHz		
1.4 MHz	QPSK	1	0	17.59	17.59	17.63	0	0
		1	3	17.65	17.69	17.64	0	0
		1	5	17.57	17.59	17.61	0	0
		3	0	17.61	17.62	17.61	0	0
		3	1	17.69	17.64	17.62	0	0
		3	3	17.63	17.64	17.59	0	0
		6	0	17.67	17.62	17.63	0-1	0
	16QAM	1	0	17.97	17.84	17.77	0-1	0
		1	3	18.00	18.02	17.97	0-1	0
		1	5	17.92	17.88	17.90	0-1	0
		3	0	17.60	17.63	17.60	0-1	0
		3	1	17.74	17.66	17.74	0-1	0
		3	3	17.67	17.67	17.66	0-1	0
		6	0	17.74	17.73	17.72	0-2	0
	64QAM	1	0	17.72	17.77	17.74	0-2	0
		1	3	17.79	17.84	17.86	0-2	0
		1	5	17.74	17.77	17.61	0-2	0
		3	0	17.70	17.69	17.70	0-2	0
		3	1	17.69	17.70	17.73	0-2	0
		3	3	17.65	17.70	17.65	0-2	0
		6	0	17.66	17.64	17.68	0-3	0

LTE FDD Band 5 _ 3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20415 Ch. 825.5 MHz	20525 Ch. 836.5 MHz	20635 Ch. 847.5 MHz		
3 MHz	QPSK	1	0	17.70	17.71	17.71	0	0
		1	7	17.74	17.77	17.79	0	0
		1	14	17.70	17.64	17.64	0	0
		8	0	17.69	17.71	17.68	0-1	0
		8	3	17.82	17.69	17.75	0-1	0
		8	7	17.77	17.69	17.69	0-1	0
		15	0	17.80	17.72	17.73	0-1	0
	16QAM	1	0	17.97	18.02	17.95	0-1	0
		1	7	17.97	18.10	18.12	0-1	0
		1	14	18.08	17.79	17.92	0-1	0
		8	0	17.78	17.79	17.80	0-2	0
		8	3	17.90	17.79	17.79	0-2	0
		8	7	17.83	17.76	17.77	0-2	0
		15	0	17.82	17.72	17.74	0-2	0
	64QAM	1	0	17.81	17.78	17.84	0-2	0
		1	7	17.83	17.94	17.96	0-2	0
		1	14	17.82	17.75	17.68	0-2	0
		8	0	17.71	17.79	17.77	0-3	0
		8	3	17.89	17.73	17.77	0-3	0
		8	7	17.79	17.68	17.72	0-3	0
		15	0	17.82	17.69	17.70	0-3	0

LTE FDD Band 5 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20425 Ch. 826.5 MHz	20525 Ch. 836.5 MHz	20625 Ch. 846.5 MHz		
5 MHz	QPSK	1	0	17.72	17.75	17.67	0	0
		1	12	17.74	17.73	17.70	0	0
		1	24	17.65	17.70	17.62	0	0
		12	0	17.84	17.74	17.67	0-1	0
		12	6	17.84	17.73	17.79	0-1	0
		12	11	17.75	17.68	17.73	0-1	0
		25	0	17.79	17.74	17.64	0-1	0
	16QAM	1	0	17.89	17.94	17.96	0-1	0
		1	12	18.08	17.92	18.05	0-1	0
		1	24	18.07	17.95	17.81	0-1	0
		12	0	17.84	17.75	17.71	0-2	0
		12	6	17.81	17.75	17.78	0-2	0
		12	11	17.76	17.70	17.75	0-2	0
		25	0	17.81	17.74	17.68	0-2	0
	64QAM	1	0	17.76	17.83	17.80	0-2	0
		1	12	17.91	17.82	17.85	0-2	0
		1	24	17.77	17.83	17.69	0-2	0
		12	0	17.80	17.71	17.67	0-3	0
		12	6	17.81	17.72	17.76	0-3	0
		12	11	17.76	17.66	17.72	0-3	0
		25	0	17.79	17.75	17.65	0-3	0

LTE FDD Band 5 _ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				20525 Ch. 836.5 MHz		
10 MHz	QPSK	1	0	17.70	0	0
		1	24	17.67	0	0
		1	49	17.69	0	0
		25	0	17.76	0-1	0
		25	12	17.74	0-1	0
		25	24	17.70	0-1	0
		50	0	17.72	0-1	0
	16QAM	1	0	18.01	0-1	0
		1	24	17.99	0-1	0
		1	49	17.90	0-1	0
		25	0	17.75	0-2	0
		25	12	17.81	0-2	0
		25	24	17.69	0-2	0
		50	0	17.74	0-2	0
	64QAM	1	0	17.83	0-2	0
		1	24	17.78	0-2	0
		1	49	17.80	0-2	0
		25	0	17.76	0-3	0
		25	12	17.79	0-3	0
		25	24	17.69	0-3	0
		50	0	17.74	0-3	0

LTE FDD Band 7 Maximum Conducted Output Power

LTE FDD Band 7 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20775 Ch. 2502.5 MHz	21100 Ch. 2535 MHz	21425 Ch. 2567.5 MHz		
5 MHz	QPSK	1	0	23.09	23.06	22.95	0	0
		1	12	23.10	22.99	22.90	0	0
		1	24	23.10	22.99	22.94	0	0
		12	0	22.10	22.02	22.00	0-1	1
		12	6	22.12	22.09	21.97	0-1	1
		12	11	22.12	22.05	21.97	0-1	1
		25	0	22.16	22.08	21.98	0-1	1
	16QAM	1	0	22.37	22.20	22.14	0-1	1
		1	12	22.38	22.12	22.17	0-1	1
		1	24	22.25	22.19	22.11	0-1	1
		12	0	21.08	21.09	20.96	0-2	2
		12	6	21.14	21.04	20.98	0-2	2
		12	11	21.14	21.00	20.95	0-2	2
		25	0	21.15	21.04	20.98	0-2	2
	64QAM	1	0	21.28	21.13	21.07	0-2	2
		1	12	21.23	21.11	21.08	0-2	2
		1	24	21.18	21.05	20.99	0-2	2
		12	0	20.18	20.07	20.02	0-3	3
		12	6	20.25	20.14	20.03	0-3	3
		12	11	20.17	20.10	20.00	0-3	3
		25	0	20.18	20.05	19.97	0-3	3

LTE FDD Band 7 _ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20800 Ch. 2505 MHz	21100 Ch. 2535 MHz	21400 Ch. 2565 MHz		
10 MHz	QPSK	1	0	23.12	23.10	22.98	0	0
		1	24	23.16	23.00	22.90	0	0
		1	49	23.16	22.97	22.96	0	0
		25	0	22.19	22.14	22.01	0-1	1
		25	12	22.20	22.15	22.05	0-1	1
		25	24	22.18	22.09	22.01	0-1	1
		50	0	22.20	22.14	22.04	0-1	1
	16QAM	1	0	22.34	22.25	22.30	0-1	1
		1	24	22.35	22.17	22.20	0-1	1
		1	49	22.37	22.22	22.15	0-1	1
		25	0	21.18	21.11	21.00	0-2	2
		25	12	21.18	21.09	21.03	0-2	2
		25	24	21.20	21.09	20.97	0-2	2
		50	0	21.18	21.10	21.02	0-2	2
	64QAM	1	0	21.21	21.11	21.19	0-2	2
		1	24	21.28	21.18	21.16	0-2	2
		1	49	21.33	21.15	21.09	0-2	2
		25	0	20.15	20.11	20.00	0-3	3
		25	12	20.22	20.12	19.99	0-3	3
		25	24	20.20	20.08	19.96	0-3	3
		50	0	20.18	20.11	19.99	0-3	3

LTE FDD Band 7 _ 15 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20825 Ch. 2507.5 MHz	21100 Ch. 2535 MHz	21375 Ch. 2562.5 MHz		
15 MHz	QPSK	1	0	23.13	23.11	23.03	0	0
		1	36	23.12	22.97	23.03	0	0
		1	74	23.18	22.97	23.06	0	0
		36	0	22.19	22.15	22.05	0-1	1
		36	18	22.23	22.13	22.14	0-1	1
		36	39	22.18	22.04	22.07	0-1	1
		75	0	22.17	22.11	22.00	0-1	1
	16QAM	1	0	22.38	22.28	22.23	0-1	1
		1	36	22.34	22.18	22.31	0-1	1
		1	74	22.32	22.12	22.23	0-1	1
		36	0	21.16	21.11	21.06	0-2	2
		36	18	21.17	21.08	21.14	0-2	2
		36	39	21.17	21.04	21.07	0-2	2
		75	0	21.17	21.03	21.02	0-2	2
	64QAM	1	0	21.29	21.31	21.20	0-2	2
		1	36	21.33	21.14	21.22	0-2	2
		1	74	21.37	21.16	21.18	0-2	2
		36	0	20.23	20.13	20.05	0-3	3
		36	18	20.21	20.14	20.17	0-3	3
		36	39	20.22	20.04	20.12	0-3	3
		75	0	20.15	20.08	20.01	0-3	3

LTE FDD Band 7 _ 20 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20850 Ch. 2510 MHz	21100 Ch. 2535 MHz	21350 Ch. 2560 MHz		
20 MHz	QPSK	1	0	23.12	23.19	23.10	0	0
		1	49	23.10	23.06	22.97	0	0
		1	99	23.10	22.94	22.85	0	0
		50	0	22.23	22.24	22.00	0-1	1
		50	25	22.20	22.08	22.00	0-1	1
		50	49	22.22	22.14	22.05	0-1	1
		100	0	22.17	22.14	21.98	0-1	1
	16QAM	1	0	22.39	22.33	22.28	0-1	1
		1	49	22.38	22.14	22.17	0-1	1
		1	99	22.35	22.27	22.17	0-1	1
		50	0	21.25	21.17	21.00	0-2	2
		50	25	21.22	21.13	20.97	0-2	2
		50	49	21.22	21.10	20.94	0-2	2
		100	0	21.19	21.07	20.84	0-2	2
	64QAM	1	0	21.34	21.26	21.16	0-2	2
		1	49	21.31	21.06	21.08	0-2	2
		1	99	21.23	21.13	21.01	0-2	2
		50	0	20.23	20.16	20.01	0-3	3
		50	25	20.23	20.12	20.02	0-3	3
		50	49	20.19	20.04	20.03	0-3	3
		100	0	20.20	20.07	19.92	0-3	3

LTE FDD Band 7 Reduced Conducted Output Power (Grip back Activated)

LTE FDD Band 7 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20775 Ch. 2502.5 MHz	21100 Ch. 2535 MHz	21425 Ch. 2567.5 MHz		
5 MHz	QPSK	1	0	13.32	13.25	13.21	0	0
		1	12	13.35	13.26	13.19	0	0
		1	24	13.35	13.22	13.17	0	0
		12	0	13.37	13.30	13.28	0-1	0
		12	6	13.42	13.30	13.25	0-1	0
		12	11	13.38	13.31	13.30	0-1	0
		25	0	13.37	13.32	13.28	0-1	0
	16QAM	1	0	13.55	13.59	13.46	0-1	0
		1	12	13.63	13.49	13.33	0-1	0
		1	24	13.65	13.53	13.46	0-1	0
		12	0	13.39	13.32	13.23	0-2	0
		12	6	13.45	13.30	13.25	0-2	0
		12	11	13.39	13.33	13.21	0-2	0
		25	0	13.39	13.33	13.21	0-2	0
	64QAM	1	0	13.49	13.49	13.38	0-2	0
		1	12	13.48	13.47	13.34	0-2	0
		1	24	13.41	13.43	13.28	0-2	0
		12	0	13.40	13.33	13.25	0-3	0
		12	6	13.48	13.33	13.31	0-3	0
		12	11	13.41	13.34	13.26	0-3	0
		25	0	13.41	13.34	13.23	0-3	0

LTE FDD Band 7 _ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20800 Ch. 2505 MHz	21100 Ch. 2535 MHz	21400 Ch. 2565 MHz		
10 MHz	QPSK	1	0	13.35	13.31	13.28	0	0
		1	24	13.38	13.25	13.20	0	0
		1	49	13.37	13.25	13.21	0	0
		25	0	13.41	13.34	13.32	0-1	0
		25	12	13.44	13.33	13.29	0-1	0
		25	24	13.41	13.30	13.26	0-1	0
		50	0	13.43	13.33	13.28	0-1	0
	16QAM	1	0	13.60	13.56	13.44	0-1	0
		1	24	13.49	13.56	13.45	0-1	0
		1	49	13.62	13.51	13.53	0-1	0
		25	0	13.43	13.33	13.23	0-2	0
		25	12	13.47	13.35	13.27	0-2	0
		25	24	13.44	13.29	13.24	0-2	0
		50	0	13.39	13.30	13.28	0-2	0
	64QAM	1	0	13.46	13.44	13.37	0-2	0
		1	24	13.54	13.36	13.33	0-2	0
		1	49	13.57	13.46	13.26	0-2	0
		25	0	13.41	13.33	13.25	0-3	0
		25	12	13.39	13.32	13.23	0-3	0
		25	24	13.45	13.31	13.27	0-3	0
		50	0	13.41	13.32	13.21	0-3	0

LTE FDD Band 7 _ 15 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20825 Ch. 2507.5 MHz	21100 Ch. 2535 MHz	21375 Ch. 2562.5 MHz		
15 MHz	QPSK	1	0	13.35	13.38	13.31	0	0
		1	36	13.35	13.23	13.29	0	0
		1	74	13.40	13.22	13.33	0	0
		36	0	13.43	13.38	13.34	0-1	0
		36	18	13.40	13.32	13.41	0-1	0
		36	39	13.39	13.27	13.39	0-1	0
		75	0	13.42	13.34	13.32	0-1	0
	16QAM	1	0	13.58	13.56	13.44	0-1	0
		1	36	13.65	13.45	13.58	0-1	0
		1	74	13.61	13.54	13.55	0-1	0
		36	0	13.45	13.35	13.22	0-2	0
		36	18	13.41	13.39	13.36	0-2	0
		36	39	13.39	13.26	13.30	0-2	0
		75	0	13.42	13.30	13.22	0-2	0
	64QAM	1	0	13.56	13.52	13.45	0-2	0
		1	36	13.49	13.43	13.42	0-2	0
		1	74	13.51	13.39	13.45	0-2	0
		36	0	13.40	13.39	13.28	0-3	0
		36	18	13.44	13.33	13.36	0-3	0
		36	39	13.42	13.32	13.35	0-3	0
		75	0	13.43	13.30	13.24	0-3	0

LTE FDD Band 7 _ 20 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20850 Ch. 2510 MHz	21100 Ch. 2535 MHz	21350 Ch. 2560 MHz		
20 MHz	QPSK	1	0	13.38	13.39	13.20	0	0
		1	49	13.31	13.23	13.22	0	0
		1	99	13.30	13.32	13.20	0	0
		50	0	13.40	13.44	13.24	0-1	0
		50	25	13.43	13.37	13.22	0-1	0
		50	49	13.41	13.31	13.32	0-1	0
		100	0	13.40	13.35	13.14	0-1	0
	16QAM	1	0	13.57	13.67	13.43	0-1	0
		1	49	13.48	13.47	13.52	0-1	0
		1	99	13.52	13.52	13.47	0-1	0
		50	0	13.41	13.39	13.22	0-2	0
		50	25	13.45	13.35	13.18	0-2	0
		50	49	13.43	13.29	13.23	0-2	0
		100	0	13.40	13.32	13.12	0-2	0
	64QAM	1	0	13.51	13.52	13.33	0-2	0
		1	49	13.50	13.36	13.32	0-2	0
		1	99	13.47	13.46	13.36	0-2	0
		50	0	13.43	13.40	13.17	0-3	0
		50	25	13.46	13.32	13.15	0-3	0
		50	49	13.44	13.32	13.27	0-3	0
		100	0	13.43	13.34	13.14	0-3	0

LTE FDD Band 12 Maximum Conducted Output Power

LTE FDD Band 12 _ 1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23017 Ch. 699.7 MHz	23095 Ch. 707.5 MHz	23173 Ch. 715.3 MHz		
1.4 MHz	QPSK	1	0	23.08	23.12	23.06	0	0
		1	3	23.17	23.18	23.07	0	0
		1	5	23.07	23.11	23.01	0	0
		3	0	23.16	23.14	23.06	0	0
		3	1	23.20	23.23	23.11	0	0
		3	3	23.16	23.12	23.07	0	0
		6	0	22.18	22.17	22.29	0-1	1
	16QAM	1	0	22.37	22.42	22.24	0-1	1
		1	3	22.38	22.43	22.26	0-1	1
		1	5	22.27	22.32	22.12	0-1	1
		3	0	22.09	22.19	22.03	0-1	1
		3	1	22.12	22.18	22.05	0-1	1
		3	3	22.08	22.11	22.15	0-1	1
		6	0	21.25	21.27	21.32	0-2	2
	64QAM	1	0	21.22	21.24	21.20	0-2	2
		1	3	21.29	21.39	21.25	0-2	2
		1	5	21.30	21.26	21.08	0-2	2
		3	0	21.24	21.23	21.19	0-2	2
		3	1	21.28	21.30	21.20	0-2	2
		3	3	21.26	21.22	21.13	0-2	2
		6	0	20.12	20.16	20.22	0-3	3

LTE FDD Band 12_3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23025 Ch. 700.5 MHz	23095 Ch. 707.5 MHz	23165 Ch. 714.5 MHz		
3 MHz	QPSK	1	0	23.16	23.21	23.21	0	0
		1	7	23.25	23.28	23.23	0	0
		1	14	23.13	23.13	23.10	0	0
		8	0	22.18	22.24	22.27	0-1	1
		8	3	22.18	22.25	22.32	0-1	1
		8	7	22.29	22.20	22.22	0-1	1
		15	0	22.39	22.27	22.40	0-1	1
	16QAM	1	0	22.36	22.51	22.31	0-1	1
		1	7	22.48	22.55	22.37	0-1	1
		1	14	22.41	22.42	22.26	0-1	1
		8	0	21.20	21.29	21.26	0-2	2
		8	3	21.28	21.32	21.32	0-2	2
		8	7	21.26	21.23	21.21	0-2	2
		15	0	21.41	21.26	21.29	0-2	2
	64QAM	1	0	21.33	21.30	21.29	0-2	2
		1	7	21.45	21.43	21.34	0-2	2
		1	14	21.33	21.32	21.31	0-2	2
		8	0	20.23	20.29	20.30	0-3	3
		8	3	20.23	20.33	20.35	0-3	3
		8	7	20.27	20.23	20.27	0-3	3
		15	0	20.36	20.23	20.30	0-3	3

LTE FDD Band 12_5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23035 Ch. 701.5 MHz	23095 Ch. 707.5 MHz	23155 Ch. 713.5 MHz		
5 MHz	QPSK	1	0	23.18	23.10	23.20	0	0
		1	12	23.24	23.20	23.11	0	0
		1	24	23.15	23.08	23.08	0	0
		12	0	22.33	22.27	22.33	0-1	1
		12	6	22.29	22.29	22.29	0-1	1
		12	11	22.31	22.23	22.29	0-1	1
		25	0	22.35	22.24	22.31	0-1	1
	16QAM	1	0	22.29	22.30	22.33	0-1	1
		1	12	22.37	22.39	22.32	0-1	1
		1	24	22.33	22.32	22.10	0-1	1
		12	0	21.31	21.27	21.29	0-2	2
		12	6	21.31	21.28	21.31	0-2	2
		12	11	21.28	21.21	21.25	0-2	2
		25	0	21.30	21.26	21.30	0-2	2
	64QAM	1	0	21.30	21.32	21.36	0-2	2
		1	12	21.34	21.34	21.36	0-2	2
		1	24	21.35	21.30	21.24	0-2	2
		12	0	20.38	20.28	20.37	0-3	3
		12	6	20.36	20.27	20.32	0-3	3
		12	11	20.30	20.26	20.29	0-3	3
		25	0	20.30	20.22	20.29	0-3	3

LTE FDD Band 12_10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				23095 Ch. 707.5 MHz		
10 MHz	QPSK	1	0	23.20	0	0
		1	24	23.19	0	0
		1	49	22.97	0	0
		25	0	22.35	0-1	1
		25	12	22.28	0-1	1
		25	24	22.22	0-1	1
		50	0	22.27	0-1	1
	16QAM	1	0	22.37	0-1	1
		1	24	22.51	0-1	1
		1	49	22.20	0-1	1
		25	0	21.28	0-2	2
		25	12	21.30	0-2	2
		25	24	21.17	0-2	2
		50	0	21.24	0-2	2
	64QAM	1	0	21.30	0-2	2
		1	24	21.32	0-2	2
		1	49	21.17	0-2	2
		25	0	20.29	0-3	3
		25	12	20.24	0-3	3
		25	24	20.19	0-3	3
		50	0	20.22	0-3	3

LTE FDD Band 12 Reduced Conducted Output Power (Grip back Activated)

LTE FDD Band 12 _ 1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23017 Ch. 699.7 MHz	23095 Ch. 707.5 MHz	23173 Ch. 715.3 MHz		
1.4 MHz	QPSK	1	0	19.17	19.15	19.12	0	0
		1	3	19.24	19.20	19.19	0	0
		1	5	19.12	19.11	19.07	0	0
		3	0	19.19	19.16	19.19	0	0
		3	1	19.18	19.18	19.20	0	0
		3	3	19.15	19.16	19.15	0	0
		6	0	19.23	19.21	19.16	0-1	0
	16QAM	1	0	19.44	19.49	19.39	0-1	0
		1	3	19.47	19.44	19.52	0-1	0
		1	5	19.47	19.41	19.32	0-1	0
		3	0	19.21	19.23	19.19	0-1	0
		3	1	19.26	19.14	19.16	0-1	0
		3	3	19.21	19.15	19.15	0-1	0
		6	0	19.31	19.25	19.26	0-2	0
	64QAM	1	0	19.33	19.25	19.25	0-2	0
		1	3	19.35	19.44	19.29	0-2	0
		1	5	19.37	19.30	19.30	0-2	0
		3	0	19.28	19.29	19.23	0-2	0
		3	1	19.29	19.33	19.29	0-2	0
		3	3	19.28	19.27	19.22	0-2	0
		6	0	19.15	19.21	19.17	0-3	0

LTE FDD Band 12_3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23025 Ch. 700.5 MHz	23095 Ch. 707.5 MHz	23165 Ch. 714.5 MHz		
3 MHz	QPSK	1	0	19.23	19.19	19.23	0	0
		1	7	19.30	19.28	19.32	0	0
		1	14	19.28	19.16	19.20	0	0
		8	0	19.22	19.22	19.24	0-1	0
		8	3	19.27	19.25	19.31	0-1	0
		8	7	19.33	19.17	19.23	0-1	0
		15	0	19.36	19.23	19.27	0-1	0
	16QAM	1	0	19.49	19.46	19.52	0-1	0
		1	7	19.58	19.62	19.56	0-1	0
		1	14	19.62	19.40	19.33	0-1	0
		8	0	19.32	19.35	19.27	0-2	0
		8	3	19.32	19.37	19.35	0-2	0
		8	7	19.41	19.31	19.24	0-2	0
		15	0	19.40	19.25	19.26	0-2	0
	64QAM	1	0	19.36	19.32	19.41	0-2	0
		1	7	19.42	19.46	19.42	0-2	0
		1	14	19.42	19.37	19.25	0-2	0
		8	0	19.27	19.28	19.30	0-3	0
		8	3	19.31	19.26	19.26	0-3	0
		8	7	19.31	19.27	19.28	0-3	0
		15	0	19.40	19.25	19.25	0-3	0

LTE FDD Band 12_5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23035 Ch. 701.5 MHz	23095 Ch. 707.5 MHz	23155 Ch. 713.5 MHz		
5 MHz	QPSK	1	0	19.23	19.15	19.29	0	0
		1	12	19.27	19.17	19.21	0	0
		1	24	19.20	19.12	19.16	0	0
		12	0	19.35	19.26	19.33	0-1	0
		12	6	19.33	19.24	19.27	0-1	0
		12	11	19.30	19.24	19.23	0-1	0
		25	0	19.36	19.23	19.24	0-1	0
	16QAM	1	0	19.55	19.45	19.43	0-1	0
		1	12	19.64	19.51	19.57	0-1	0
		1	24	19.56	19.43	19.39	0-1	0
		12	0	19.42	19.31	19.28	0-2	0
		12	6	19.36	19.31	19.33	0-2	0
		12	11	19.33	19.25	19.25	0-2	0
		25	0	19.38	19.29	19.25	0-2	0
	64QAM	1	0	19.38	19.35	19.45	0-2	0
		1	12	19.49	19.37	19.38	0-2	0
		1	24	19.32	19.35	19.32	0-2	0
		12	0	19.37	19.36	19.33	0-3	0
		12	6	19.42	19.30	19.35	0-3	0
		12	11	19.34	19.24	19.29	0-3	0
		25	0	19.33	19.24	19.28	0-3	0

LTE FDD Band 12_10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				23095 Ch. 707.5 MHz		
10 MHz	QPSK	1	0	19.26	0	0
		1	24	19.21	0	0
		1	49	19.06	0	0
		25	0	19.33	0-1	0
		25	12	19.26	0-1	0
		25	24	19.20	0-1	0
		50	0	19.25	0-1	0
	16QAM	1	0	19.42	0-1	0
		1	24	19.51	0-1	0
		1	49	19.28	0-1	0
		25	0	19.34	0-2	0
		25	12	19.29	0-2	0
		25	24	19.21	0-2	0
		50	0	19.23	0-2	0
	64QAM	1	0	19.35	0-2	0
		1	24	19.37	0-2	0
		1	49	19.15	0-2	0
		25	0	19.34	0-3	0
		25	12	19.26	0-3	0
		25	24	19.18	0-3	0
		50	0	19.26	0-3	0

LTE FDD Band 13 Maximum Conducted Output Power

LTE FDD Band 13 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23205 Ch.	23230 Ch.	23255 Ch.		
				779.5 MHz	782 MHz	784.5 MHz		
5 MHz	QPSK	1	0	23.02	23.02	23.17	0	0
		1	12	22.97	23.02	23.26	0	0
		1	24	22.97	23.13	23.21	0	0
		12	0	22.13	22.17	22.19	0-1	1
		12	6	22.26	22.16	22.28	0-1	1
		12	11	22.25	22.13	22.34	0-1	1
		25	0	22.22	22.19	22.29	0-1	1
	16QAM	1	0	22.11	22.21	22.27	0-1	1
		1	12	22.29	22.17	22.42	0-1	1
		1	24	22.25	22.28	22.51	0-1	1
		12	0	21.13	21.19	21.26	0-2	2
		12	6	21.22	21.18	21.29	0-2	2
		12	11	21.20	21.14	21.35	0-2	2
		25	0	21.18	21.14	21.25	0-2	2
	64QAM	1	0	21.11	21.05	21.25	0-2	2
		1	12	21.09	21.10	21.39	0-2	2
		1	24	21.15	21.24	21.31	0-2	2
		12	0	20.11	20.16	20.23	0-3	3
		12	6	20.22	20.18	20.25	0-3	3
		12	11	20.13	20.10	20.33	0-3	3
		25	0	20.19	20.20	20.24	0-3	3

LTE FDD Band 13_10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				23230 Ch. 782 MHz		
10 MHz	QPSK	1	0	23.12	0	0
		1	24	23.10	0	0
		1	49	23.08	0	0
		25	0	22.26	0-1	1
		25	12	22.22	0-1	1
		25	24	22.14	0-1	1
		50	0	22.29	0-1	1
	16QAM	1	0	22.21	0-1	1
		1	24	22.29	0-1	1
		1	49	22.24	0-1	1
		25	0	21.21	0-2	2
		25	12	21.23	0-2	2
		25	24	21.13	0-2	2
		50	0	21.21	0-2	2
	64QAM	1	0	21.18	0-2	2
		1	24	21.10	0-2	2
		1	49	21.22	0-2	2
		25	0	20.23	0-3	3
		25	12	20.22	0-3	3
		25	24	20.12	0-3	3
		50	0	20.20	0-3	3

LTE FDD Band 13 Reduced Conducted Output Power (Grip back Activated)

LTE FDD Band 13 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23205 Ch.	23230 Ch.	23255 Ch.		
				779.5 MHz	782 MHz	784.5 MHz		
5 MHz	QPSK	1	0	17.95	17.86	18.08	0	0
		1	12	17.88	17.93	18.10	0	0
		1	24	17.93	17.98	18.04	0	0
		12	0	17.95	17.99	18.10	0-1	0
		12	6	18.02	18.03	18.08	0-1	0
		12	11	17.98	17.92	18.10	0-1	0
		25	0	18.00	17.95	18.07	0-1	0
	16QAM	1	0	18.26	18.15	18.34	0-1	0
		1	12	18.12	18.18	18.39	0-1	0
		1	24	18.14	18.24	18.27	0-1	0
		12	0	17.98	18.01	18.05	0-2	0
		12	6	18.05	18.03	18.06	0-2	0
		12	11	17.97	17.96	18.17	0-2	0
		25	0	18.03	17.95	18.08	0-2	0
	64QAM	1	0	18.07	18.06	18.19	0-2	0
		1	12	18.06	18.08	18.19	0-2	0
		1	24	18.03	18.06	18.19	0-2	0
		12	0	17.92	17.96	18.03	0-3	0
		12	6	18.04	18.02	18.04	0-3	0
		12	11	17.96	17.89	18.11	0-3	0
		25	0	18.04	17.94	18.07	0-3	0

LTE FDD Band 13_10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				23230 Ch. 782 MHz		
10 MHz	QPSK	1	0	17.93	0	0
		1	24	17.91	0	0
		1	49	17.93	0	0
		25	0	18.03	0-1	0
		25	12	18.02	0-1	0
		25	24	17.94	0-1	0
		50	0	17.97	0-1	0
	16QAM	1	0	18.14	0-1	0
		1	24	18.15	0-1	0
		1	49	18.20	0-1	0
		25	0	18.06	0-2	0
		25	12	17.98	0-2	0
		25	24	17.92	0-2	0
		50	0	17.97	0-2	0
	64QAM	1	0	18.00	0-2	0
		1	24	18.09	0-2	0
		1	49	18.08	0-2	0
		25	0	18.05	0-3	0
		25	12	17.98	0-3	0
		25	24	17.90	0-3	0
		50	0	18.00	0-3	0

LTE FDD Band 14 Maximum Conducted Output Power

LTE FDD Band 14 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23305 Ch.	23330 Ch.	23355 Ch.		
				790.5 MHz	793 MHz	795.5 MHz		
5 MHz	QPSK	1	0	23.12	23.10	23.18	0	0
		1	12	23.07	23.09	23.16	0	0
		1	24	23.04	23.03	23.07	0	0
		12	0	22.24	22.21	22.28	0-1	1
		12	6	22.22	22.18	22.25	0-1	1
		12	11	22.19	22.14	22.22	0-1	1
		25	0	22.24	22.20	22.23	0-1	1
	16QAM	1	0	22.29	22.39	22.45	0-1	1
		1	12	22.31	22.37	22.48	0-1	1
		1	24	22.26	22.21	22.36	0-1	1
		12	0	21.17	21.16	21.28	0-2	2
		12	6	21.25	21.17	21.27	0-2	2
		12	11	21.13	21.15	21.22	0-2	2
		25	0	21.23	21.15	21.24	0-2	2
	64QAM	1	0	21.30	21.33	21.35	0-2	2
		1	12	21.31	21.28	21.38	0-2	2
		1	24	21.25	21.17	21.27	0-2	2
		12	0	20.25	20.22	20.31	0-3	3
		12	6	20.30	20.22	20.29	0-3	3
		12	11	20.19	20.18	20.26	0-3	3
		25	0	20.22	20.18	20.25	0-3	3

LTE FDD Band 14 _ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				23330 Ch. 793 MHz		
10 MHz	QPSK	1	0	23.15	0	0
		1	24	23.10	0	0
		1	49	22.97	0	0
		25	0	22.26	0-1	1
		25	12	22.20	0-1	1
		25	24	22.11	0-1	1
		50	0	22.17	0-1	1
	16QAM	1	0	22.33	0-1	1
		1	24	22.36	0-1	1
		1	49	22.22	0-1	1
		25	0	21.20	0-2	2
		25	12	21.22	0-2	2
		25	24	21.12	0-2	2
		50	0	21.19	0-2	2
	64QAM	1	0	21.33	0-2	2
		1	24	21.27	0-2	2
		1	49	21.16	0-2	2
		25	0	20.22	0-3	3
		25	12	20.23	0-3	3
		25	24	20.13	0-3	3
		50	0	20.19	0-3	3

LTE FDD Band 14 Reduced Conducted Output Power (Grip back Activated)

LTE FDD Band 14 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23305 Ch.	23330 Ch.	23355 Ch.		
				790.5 MHz	793 MHz	795.5 MHz		
5 MHz	QPSK	1	0	17.58	17.57	17.66	0	0
		1	12	17.55	17.50	17.62	0	0
		1	24	17.45	17.46	17.55	0	0
		12	0	17.63	17.58	17.67	0-1	0
		12	6	17.60	17.59	17.65	0-1	0
		12	11	17.60	17.55	17.63	0-1	0
		25	0	17.62	17.57	17.62	0-1	0
	16QAM	1	0	17.92	17.88	17.94	0-1	0
		1	12	17.92	17.76	17.84	0-1	0
		1	24	17.73	17.77	17.71	0-1	0
		12	0	17.67	17.66	17.66	0-2	0
		12	6	17.64	17.60	17.71	0-2	0
		12	11	17.58	17.53	17.63	0-2	0
		25	0	17.61	17.56	17.61	0-2	0
	64QAM	1	0	17.75	17.72	17.81	0-2	0
		1	12	17.70	17.70	17.71	0-2	0
		1	24	17.62	17.59	17.60	0-2	0
		12	0	17.65	17.62	17.68	0-3	0
		12	6	17.65	17.62	17.68	0-3	0
		12	11	17.61	17.59	17.65	0-3	0
		25	0	17.61	17.58	17.62	0-3	0

LTE FDD Band 14 _ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				23330 Ch. 793 MHz		
10 MHz	QPSK	1	0	17.65	0	0
		1	24	17.55	0	0
		1	49	17.42	0	0
		25	0	17.61	0-1	0
		25	12	17.61	0-1	0
		25	24	17.54	0-1	0
		50	0	17.58	0-1	0
	16QAM	1	0	17.93	0-1	0
		1	24	17.71	0-1	0
		1	49	17.75	0-1	0
		25	0	17.63	0-2	0
		25	12	17.63	0-2	0
		25	24	17.54	0-2	0
		50	0	17.56	0-2	0
	64QAM	1	0	17.71	0-2	0
		1	24	17.68	0-2	0
		1	49	17.55	0-2	0
		25	0	17.64	0-3	0
		25	12	17.57	0-3	0
		25	24	17.54	0-3	0
		50	0	17.59	0-3	0

LTE FDD Band 25 Maximum Conducted Output Power

LTE FDD Band 25 _ 1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26047 Ch. 1850.7 MHz	26365 Ch. 1882.5 MHz	26683 Ch. 1914.3 MHz		
1.4 MHz	QPSK	1	0	22.96	22.97	22.87	0	0
		1	3	23.04	23.00	22.99	0	0
		1	5	22.94	22.94	22.84	0	0
		3	0	22.94	22.97	22.88	0	0
		3	1	22.97	22.96	22.91	0	0
		3	3	22.90	22.98	22.94	0	0
		6	0	21.93	21.99	21.96	0-1	1
	16QAM	1	0	22.35	22.33	22.05	0-1	1
		1	3	22.45	22.37	22.28	0-1	1
		1	5	22.35	22.15	22.22	0-1	1
		3	0	22.02	22.01	21.99	0-1	1
		3	1	22.03	22.09	21.92	0-1	1
		3	3	22.02	22.00	21.97	0-1	1
		6	0	21.09	21.07	21.04	0-2	2
	64QAM	1	0	21.24	21.17	21.17	0-2	2
		1	3	21.22	21.27	21.16	0-2	2
		1	5	21.20	21.17	21.11	0-2	2
		3	0	21.13	21.18	21.07	0-2	2
		3	1	21.18	21.23	21.05	0-2	2
		3	3	21.08	21.18	21.10	0-2	2
		6	0	19.96	20.05	19.96	0-3	3

LTE FDD Band 25 _ 3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26055 Ch. 1851.5 MHz	26365 Ch. 1882.5 MHz	26675 Ch. 1913.5 MHz		
3 MHz	QPSK	1	0	22.97	23.02	22.95	0	0
		1	7	23.13	23.17	23.05	0	0
		1	14	23.04	22.96	22.89	0	0
		8	0	22.03	22.07	21.96	0-1	1
		8	3	22.09	22.12	22.02	0-1	1
		8	7	21.99	22.08	21.95	0-1	1
		15	0	21.98	22.06	21.97	0-1	1
	16QAM	1	0	22.35	22.36	22.24	0-1	1
		1	7	22.52	22.48	22.31	0-1	1
		1	14	22.28	22.27	22.31	0-1	1
		8	0	21.18	21.19	21.06	0-2	2
		8	3	21.16	21.25	21.10	0-2	2
		8	7	21.18	21.23	21.04	0-2	2
		15	0	21.11	21.10	21.02	0-2	2
	64QAM	1	0	21.23	21.27	21.19	0-2	2
		1	7	21.43	21.42	21.31	0-2	2
		1	14	21.30	21.34	21.09	0-2	2
		8	0	20.16	20.21	20.03	0-3	3
		8	3	20.20	20.27	20.11	0-3	3
		8	7	20.10	20.16	20.06	0-3	3
		15	0	20.09	20.13	20.00	0-3	3

LTE FDD Band 25 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26065 Ch. 1852.5 MHz	26365 Ch. 1882.5 MHz	26665 Ch. 1912.5 MHz		
5 MHz	QPSK	1	0	23.00	23.03	22.95	0	0
		1	12	23.00	23.11	22.97	0	0
		1	24	23.03	23.08	22.93	0	0
		12	0	22.02	22.07	22.01	0-1	1
		12	6	22.04	22.09	22.01	0-1	1
		12	11	22.05	22.09	22.01	0-1	1
		25	0	21.99	22.04	21.95	0-1	1
	16QAM	1	0	22.38	22.44	22.38	0-1	1
		1	12	22.32	22.48	22.21	0-1	1
		1	24	22.29	22.46	22.20	0-1	1
		12	0	21.08	21.21	21.05	0-2	2
		12	6	21.11	21.11	21.09	0-2	2
		12	11	21.11	21.21	21.02	0-2	2
		25	0	21.08	21.11	21.02	0-2	2
	64QAM	1	0	21.29	21.23	21.23	0-2	2
		1	12	21.26	21.36	21.30	0-2	2
		1	24	21.27	21.38	21.16	0-2	2
		12	0	20.13	20.21	20.14	0-3	3
		12	6	20.21	20.24	20.16	0-3	3
		12	11	20.15	20.18	20.09	0-3	3
		25	0	20.07	20.12	20.08	0-3	3

LTE FDD Band 25 _ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26090 Ch. 1855 MHz	26365 Ch. 1882.5 MHz	26640 Ch. 1910 MHz		
10 MHz	QPSK	1	0	23.06	23.06	22.90	0	0
		1	24	23.01	23.06	22.99	0	0
		1	49	22.97	23.02	22.98	0	0
		25	0	21.99	22.05	21.94	0-1	1
		25	12	22.01	22.13	22.01	0-1	1
		25	24	21.98	22.04	21.99	0-1	1
		50	0	22.02	22.09	21.92	0-1	1
	16QAM	1	0	22.35	22.50	22.28	0-1	1
		1	24	22.39	22.35	22.29	0-1	1
		1	49	22.32	22.35	22.28	0-1	1
		25	0	21.05	21.13	21.00	0-2	2
		25	12	21.09	21.16	21.10	0-2	2
		25	24	21.06	21.15	21.03	0-2	2
		50	0	21.02	21.13	21.02	0-2	2
	64QAM	1	0	21.27	21.30	21.14	0-2	2
		1	24	21.28	21.38	21.28	0-2	2
		1	49	21.13	21.28	21.19	0-2	2
		25	0	20.06	20.16	20.01	0-3	3
		25	12	20.08	20.21	20.11	0-3	3
		25	24	20.01	20.14	20.01	0-3	3
		50	0	20.06	20.15	20.02	0-3	3

LTE FDD Band 25 _ 15 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26115 Ch. 1857.5 MHz	26365 Ch. 1882.5 MHz	26615 Ch. 1907.5 MHz		
15 MHz	QPSK	1	0	23.16	23.06	22.92	0	0
		1	36	23.07	23.08	23.03	0	0
		1	74	22.99	23.09	22.95	0	0
		36	0	22.14	22.10	21.93	0-1	1
		36	18	22.18	22.15	22.00	0-1	1
		36	39	22.10	22.10	22.05	0-1	1
		75	0	22.08	22.13	21.99	0-1	1
	16QAM	1	0	22.39	22.35	22.22	0-1	1
		1	36	22.35	22.39	22.32	0-1	1
		1	74	22.31	22.65	22.28	0-1	1
		36	0	21.23	21.17	21.00	0-2	2
		36	18	21.17	21.18	21.02	0-2	2
		36	39	21.14	21.18	21.09	0-2	2
		75	0	21.16	21.14	21.02	0-2	2
	64QAM	1	0	21.36	21.30	21.03	0-2	2
		1	36	21.40	21.32	21.27	0-2	2
		1	74	21.25	21.37	21.16	0-2	2
		36	0	20.23	20.20	20.04	0-3	3
		36	18	20.22	20.24	20.10	0-3	3
		36	39	20.14	20.16	20.10	0-3	3
		75	0	20.18	20.18	19.98	0-3	3

LTE FDD Band 25 _ 20 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26140 Ch. 1860 MHz	26365 Ch. 1882.5 MHz	26590 Ch. 1905 MHz		
20 MHz	QPSK	1	0	23.12	23.07	23.01	0	0
		1	49	23.12	23.07	23.06	0	0
		1	99	23.14	23.05	23.04	0	0
		50	0	22.13	22.11	22.00	0-1	1
		50	25	22.09	22.10	22.06	0-1	1
		50	49	22.19	22.04	22.03	0-1	1
		100	0	22.22	22.07	21.98	0-1	1
	16QAM	1	0	22.46	22.31	22.27	0-1	1
		1	49	22.43	22.46	22.29	0-1	1
		1	99	22.36	22.43	22.22	0-1	1
		50	0	21.16	21.13	21.06	0-2	2
		50	25	21.15	21.17	21.14	0-2	2
		50	49	21.20	21.12	21.09	0-2	2
		100	0	21.23	21.13	20.98	0-2	2
	64QAM	1	0	21.35	21.31	21.27	0-2	2
		1	49	21.31	21.22	21.21	0-2	2
		1	99	21.29	21.27	21.29	0-2	2
		50	0	20.17	20.18	20.07	0-3	3
		50	25	20.18	20.16	20.08	0-3	3
		50	49	20.22	20.11	20.08	0-3	3
		100	0	20.23	20.12	20.05	0-3	3

LTE FDD Band 25 Reduced Conducted Output Power (Grip back Activated)

LTE FDD Band 25 _ 1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26047 Ch. 1850.7 MHz	26365 Ch. 1882.5 MHz	26683 Ch. 1914.3 MHz		
1.4 MHz	QPSK	1	0	15.99	15.96	15.96	0	0
		1	3	16.08	16.07	16.00	0	0
		1	5	15.97	15.96	15.94	0	0
		3	0	15.98	16.03	16.01	0	0
		3	1	16.04	16.10	16.02	0	0
		3	3	15.95	16.00	15.97	0	0
		6	0	16.00	16.00	16.00	0-1	0
	16QAM	1	0	16.35	16.40	16.22	0-1	0
		1	3	16.35	16.28	16.34	0-1	0
		1	5	16.27	16.27	16.29	0-1	0
		3	0	16.01	16.08	15.95	0-1	0
		3	1	16.07	16.16	16.07	0-1	0
		3	3	16.07	16.05	16.01	0-1	0
		6	0	16.13	16.10	16.12	0-2	0
	64QAM	1	0	16.21	16.17	16.13	0-2	0
		1	3	16.29	16.27	16.22	0-2	0
		1	5	16.20	16.14	16.14	0-2	0
		3	0	16.09	16.19	16.14	0-2	0
		3	1	16.18	16.28	16.16	0-2	0
		3	3	16.17	16.15	16.13	0-2	0
		6	0	15.98	16.04	16.01	0-3	0

LTE FDD Band 25 _ 3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26055 Ch. 1851.5 MHz	26365 Ch. 1882.5 MHz	26675Ch. 1913.5 MHz		
3 MHz	QPSK	1	0	16.03	16.11	16.03	0	0
		1	7	16.13	16.21	16.13	0	0
		1	14	16.05	16.08	16.03	0	0
		8	0	16.09	16.17	16.04	0-1	0
		8	3	16.11	16.17	16.09	0-1	0
		8	7	16.03	16.13	16.09	0-1	0
		15	0	16.08	16.15	16.06	0-1	0
	16QAM	1	0	16.36	16.45	16.31	0-1	0
		1	7	16.56	16.56	16.47	0-1	0
		1	14	16.39	16.45	16.24	0-1	0
		8	0	16.18	16.24	16.13	0-2	0
		8	3	16.23	16.30	16.19	0-2	0
		8	7	16.17	16.25	16.14	0-2	0
		15	0	16.11	16.19	16.10	0-2	0
	64QAM	1	0	16.33	16.26	16.29	0-2	0
		1	7	16.41	16.41	16.38	0-2	0
		1	14	16.27	16.35	16.24	0-2	0
		8	0	16.16	16.22	16.07	0-3	0
		8	3	16.18	16.27	16.14	0-3	0
		8	7	16.15	16.19	16.16	0-3	0
		15	0	16.14	16.21	16.10	0-3	0

LTE FDD Band 25 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26065 Ch. 1852.5 MHz	26365 Ch. 1882.5 MHz	26665 Ch. 1912.5 MHz		
5 MHz	QPSK	1	0	16.12	16.15	16.02	0	0
		1	12	16.08	16.15	16.06	0	0
		1	24	16.07	16.16	16.05	0	0
		12	0	16.08	16.20	16.10	0-1	0
		12	6	16.15	16.21	16.10	0-1	0
		12	11	16.08	16.15	16.09	0-1	0
		25	0	16.12	16.13	16.07	0-1	0
	16QAM	1	0	16.41	16.51	16.34	0-1	0
		1	12	16.37	16.56	16.42	0-1	0
		1	24	16.41	16.60	16.26	0-1	0
		12	0	16.20	16.22	16.16	0-2	0
		12	6	16.19	16.24	16.16	0-2	0
		12	11	16.16	16.22	16.11	0-2	0
		25	0	16.15	16.21	16.10	0-2	0
	64QAM	1	0	16.29	16.37	16.32	0-2	0
		1	12	16.29	16.34	16.27	0-2	0
		1	24	16.36	16.32	16.33	0-2	0
		12	0	16.22	16.28	16.17	0-3	0
		12	6	16.20	16.30	16.17	0-3	0
		12	11	16.19	16.26	16.15	0-3	0
		25	0	16.13	16.19	16.14	0-3	0

LTE FDD Band 25 _ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26090 Ch. 1855 MHz	26365 Ch. 1882.5 MHz	26640 Ch. 1910 MHz		
10 MHz	QPSK	1	0	16.12	16.19	16.07	0	0
		1	24	16.12	16.19	16.11	0	0
		1	49	16.07	16.10	16.04	0	0
		25	0	16.12	16.20	16.06	0-1	0
		25	12	16.14	16.22	16.17	0-1	0
		25	24	16.07	16.19	16.14	0-1	0
		50	0	16.12	16.19	16.03	0-1	0
	16QAM	1	0	16.47	16.59	16.41	0-1	0
		1	24	16.41	16.49	16.50	0-1	0
		1	49	16.38	16.42	16.43	0-1	0
		25	0	16.19	16.26	16.08	0-2	0
		25	12	16.20	16.28	16.20	0-2	0
		25	24	16.18	16.21	16.15	0-2	0
		50	0	16.16	16.21	16.06	0-2	0
	64QAM	1	0	16.32	16.35	16.28	0-2	0
		1	24	16.35	16.33	16.43	0-2	0
		1	49	16.24	16.42	16.30	0-2	0
		25	0	16.14	16.26	16.07	0-3	0
		25	12	16.16	16.22	16.17	0-3	0
		25	24	16.16	16.21	16.13	0-3	0
		50	0	16.13	16.21	16.04	0-3	0

LTE FDD Band 25 _ 15 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26115 Ch. 1857.5 MHz	26365 Ch. 1882.5 MHz	26615 Ch. 1907.5 MHz		
15 MHz	QPSK	1	0	16.24	16.20	16.05	0	0
		1	36	16.15	16.18	16.16	0	0
		1	74	16.11	16.23	16.10	0	0
		36	0	16.24	16.25	16.04	0-1	0
		36	18	16.25	16.24	16.08	0-1	0
		36	39	16.20	16.20	16.16	0-1	0
		75	0	16.19	16.21	16.09	0-1	0
	16QAM	1	0	16.50	16.46	16.37	0-1	0
		1	36	16.36	16.59	16.50	0-1	0
		1	74	16.33	16.46	16.39	0-1	0
		36	0	16.30	16.28	16.14	0-2	0
		36	18	16.23	16.31	16.11	0-2	0
		36	39	16.21	16.23	16.17	0-2	0
		75	0	16.26	16.25	16.09	0-2	0
	64QAM	1	0	16.43	16.47	16.26	0-2	0
		1	36	16.45	16.32	16.39	0-2	0
		1	74	16.37	16.44	16.28	0-2	0
		36	0	16.30	16.30	16.15	0-3	0
		36	18	16.36	16.30	16.15	0-3	0
		36	39	16.25	16.28	16.21	0-3	0
		75	0	16.28	16.25	16.07	0-3	0

LTE FDD Band 25 _ 20 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26140 Ch. 1860 MHz	26365 Ch. 1882.5 MHz	26590 Ch. 1905 MHz		
20 MHz	QPSK	1	0	16.27	16.20	16.17	0	0
		1	49	16.21	16.19	16.25	0	0
		1	99	16.28	16.24	16.19	0	0
		50	0	16.33	16.27	16.19	0-1	0
		50	25	16.27	16.24	16.23	0-1	0
		50	49	16.38	16.22	16.19	0-1	0
		100	0	16.36	16.23	16.15	0-1	0
	16QAM	1	0	16.56	16.58	16.44	0-1	0
		1	49	16.50	16.46	16.48	0-1	0
		1	99	16.67	16.57	16.57	0-1	0
		50	0	16.33	16.31	16.25	0-2	0
		50	25	16.33	16.34	16.28	0-2	0
		50	49	16.39	16.24	16.20	0-2	0
		100	0	16.36	16.28	16.22	0-2	0
	64QAM	1	0	16.37	16.44	16.32	0-2	0
		1	49	16.35	16.44	16.45	0-2	0
		1	99	16.44	16.34	16.36	0-2	0
		50	0	16.33	16.32	16.20	0-3	0
		50	25	16.34	16.32	16.28	0-3	0
		50	49	16.34	16.25	16.21	0-3	0
		100	0	16.41	16.27	16.22	0-3	0

LTE FDD Band 26 Maximum Conducted Output Power

LTE FDD Band 26 _ 1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26697 Ch. 814.7 MHz	26865 Ch. 831.5 MHz	27033 Ch. 848.3 MHz		
1.4 MHz	QPSK	1	0	23.15	23.07	23.02	0	0
		1	3	23.21	23.13	23.07	0	0
		1	5	23.15	23.09	22.96	0	0
		3	0	23.22	23.14	23.01	0	0
		3	1	23.24	23.16	23.08	0	0
		3	3	23.20	23.10	23.04	0	0
		6	0	22.28	22.18	22.19	0-1	1
	16QAM	1	0	22.44	22.39	22.17	0-1	1
		1	3	22.39	22.37	22.19	0-1	1
		1	5	22.44	22.29	22.15	0-1	1
		3	0	22.21	22.15	21.98	0-1	1
		3	1	22.26	22.10	22.07	0-1	1
		3	3	22.20	22.08	21.95	0-1	1
		6	0	21.34	21.22	21.16	0-2	2
	64QAM	1	0	21.25	21.17	21.09	0-2	2
		1	3	21.31	21.22	21.12	0-2	2
		1	5	21.28	21.17	21.00	0-2	2
		3	0	21.25	21.16	21.06	0-2	2
		3	1	21.25	21.28	21.10	0-2	2
		3	3	21.25	21.23	21.06	0-2	2
		6	0	20.17	20.08	20.04	0-3	3

LTE FDD Band 26 _ 3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26705 Ch. 815.5 MHz	26865 Ch. 831.5 MHz	27025 Ch. 847.5 MHz		
3 MHz	QPSK	1	0	23.21	23.17	23.14	0	0
		1	7	23.26	23.23	23.21	0	0
		1	14	23.14	23.09	23.08	0	0
		8	0	22.26	22.19	22.16	0-1	1
		8	3	22.29	22.23	22.22	0-1	1
		8	7	22.27	22.18	22.12	0-1	1
		15	0	22.36	22.23	22.27	0-1	1
	16QAM	1	0	22.53	22.41	22.46	0-1	1
		1	7	22.59	22.45	22.31	0-1	1
		1	14	22.39	22.41	22.17	0-1	1
		8	0	21.35	21.26	21.26	0-2	2
		8	3	21.38	21.30	21.25	0-2	2
		8	7	21.36	21.25	21.15	0-2	2
		15	0	21.38	21.27	21.18	0-2	2
	64QAM	1	0	21.34	21.27	21.25	0-2	2
		1	7	21.38	21.36	21.32	0-2	2
		1	14	21.28	21.19	21.07	0-2	2
		8	0	20.30	20.15	20.17	0-3	3
		8	3	20.29	20.21	20.16	0-3	3
		8	7	20.25	20.13	20.08	0-3	3
		15	0	20.29	20.18	20.13	0-3	3

LTE FDD Band 26 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26715 Ch. 816.5 MHz	26865 Ch. 831.5 MHz	27015 Ch. 846.5 MHz		
5 MHz	QPSK	1	0	23.13	23.22	23.20	0	0
		1	12	23.12	23.20	23.13	0	0
		1	24	23.09	23.05	22.99	0	0
		12	0	22.21	22.25	22.25	0-1	1
		12	6	22.34	22.24	22.23	0-1	1
		12	11	22.27	22.24	22.22	0-1	1
		25	0	22.29	22.22	22.24	0-1	1
	16QAM	1	0	22.38	22.53	22.48	0-1	1
		1	12	22.40	22.45	22.43	0-1	1
		1	24	22.37	22.33	22.19	0-1	1
		12	0	21.21	21.27	21.27	0-2	2
		12	6	21.31	21.26	21.25	0-2	2
		12	11	21.25	21.24	21.23	0-2	2
		25	0	21.31	21.23	21.24	0-2	2
	64QAM	1	0	21.21	21.32	21.30	0-2	2
		1	12	21.16	21.32	21.27	0-2	2
		1	24	21.20	21.18	21.10	0-2	2
		12	0	20.24	20.23	20.25	0-3	3
		12	6	20.29	20.23	20.20	0-3	3
		12	11	20.26	20.18	20.15	0-3	3
		25	0	20.21	20.18	20.17	0-3	3

LTE FDD Band 26 _ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26740 Ch. 819 MHz	26865 Ch. 831.5 MHz	26990 Ch. 844 MHz		
10 MHz	QPSK	1	0	23.25	23.19	23.17	0	0
		1	24	23.27	23.19	23.14	0	0
		1	49	23.20	23.11	23.04	0	0
		25	0	22.38	22.28	22.27	0-1	1
		25	12	22.34	22.27	22.23	0-1	1
		25	24	22.40	22.19	22.26	0-1	1
		50	0	22.45	22.27	22.23	0-1	1
	16QAM	1	0	22.48	22.41	22.46	0-1	1
		1	24	22.43	22.47	22.48	0-1	1
		1	49	22.38	22.42	22.21	0-1	1
		25	0	21.43	21.26	21.26	0-2	2
		25	12	21.38	21.30	21.21	0-2	2
		25	24	21.36	21.19	21.25	0-2	2
		50	0	21.42	21.21	21.23	0-2	2
	64QAM	1	0	21.36	21.27	21.29	0-2	2
		1	24	21.28	21.30	21.28	0-2	2
		1	49	21.35	21.20	21.09	0-2	2
		25	0	20.33	20.21	20.20	0-3	3
		25	12	20.31	20.22	20.14	0-3	3
		25	24	20.32	20.15	20.18	0-3	3
		50	0	20.36	20.18	20.13	0-3	3

LTE FDD Band 26 _ 15 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				26865 Ch. 831.5 MHz		
15 MHz	QPSK	1	0	23.23	0	0
		1	36	23.13	0	0
		1	74	23.04	0	0
		36	0	22.27	0-1	1
		36	18	22.21	0-1	1
		36	39	22.14	0-1	1
		75	0	22.24	0-1	1
	16QAM	1	0	22.33	0-1	1
		1	36	22.34	0-1	1
		1	74	22.32	0-1	1
		36	0	21.28	0-2	2
		36	18	21.25	0-2	2
		36	39	21.16	0-2	2
		75	0	21.24	0-2	2
	64QAM	1	0	21.34	0-2	2
		1	36	21.25	0-2	2
		1	74	21.14	0-2	2
		36	0	20.22	0-3	3
		36	18	20.18	0-3	3
		36	39	20.09	0-3	3
		75	0	20.19	0-3	3

LTE FDD Band 26 Reduced Conducted Output Power (Grip back Activated)

LTE FDD Band 26 _ 1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26697 Ch. 814.7 MHz	26865 Ch. 831.5 MHz	27033 Ch. 848.3 MHz		
1.4 MHz	QPSK	1	0	17.74	17.65	17.64	0	0
		1	3	17.80	17.71	17.73	0	0
		1	5	17.76	17.60	17.66	0	0
		3	0	17.76	17.62	17.67	0	0
		3	1	17.79	17.67	17.67	0	0
		3	3	17.77	17.63	17.65	0	0
		6	0	17.77	17.69	17.68	0-1	0
	16QAM	1	0	18.11	17.84	17.88	0-1	0
		1	3	18.15	18.03	17.96	0-1	0
		1	5	18.03	17.97	17.95	0-1	0
		3	0	17.81	17.68	17.68	0-1	0
		3	1	17.76	17.66	17.72	0-1	0
		3	3	17.79	17.71	17.69	0-1	0
		6	0	17.84	17.68	17.77	0-2	0
	64QAM	1	0	17.89	17.69	17.78	0-2	0
		1	3	17.93	17.84	17.71	0-2	0
		1	5	17.90	17.78	17.81	0-2	0
		3	0	17.80	17.71	17.68	0-2	0
		3	1	17.82	17.78	17.71	0-2	0
		3	3	17.80	17.68	17.65	0-2	0
		6	0	17.76	17.68	17.65	0-3	0

LTE FDD Band 26 _ 3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26705 Ch. 815.5 MHz	26865 Ch. 831.5 MHz	27025 Ch. 847.5 MHz		
3 MHz	QPSK	1	0	17.85	17.73	17.76	0	0
		1	7	17.91	17.80	17.84	0	0
		1	14	17.78	17.66	17.66	0	0
		8	0	17.84	17.73	17.81	0-1	0
		8	3	17.89	17.75	17.80	0-1	0
		8	7	17.77	17.68	17.73	0-1	0
		15	0	17.83	17.72	17.77	0-1	0
	16QAM	1	0	18.01	18.00	18.10	0-1	0
		1	7	18.19	18.01	18.10	0-1	0
		1	14	17.94	18.01	17.95	0-1	0
		8	0	17.90	17.83	17.85	0-2	0
		8	3	17.88	17.86	17.86	0-2	0
		8	7	17.84	17.80	17.77	0-2	0
		15	0	17.86	17.79	17.78	0-2	0
	64QAM	1	0	17.95	17.77	17.88	0-2	0
		1	7	18.06	17.82	17.94	0-2	0
		1	14	17.91	17.78	17.76	0-2	0
		8	0	17.87	17.79	17.72	0-3	0
		8	3	17.87	17.83	17.81	0-3	0
		8	7	17.83	17.68	17.74	0-3	0
		15	0	17.83	17.75	17.75	0-3	0

LTE FDD Band 26 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26715 Ch. 816.5 MHz	26865 Ch. 831.5 MHz	27015 Ch. 846.5 MHz		
5 MHz	QPSK	1	0	17.69	17.74	17.82	0	0
		1	12	17.67	17.71	17.73	0	0
		1	24	17.71	17.65	17.70	0	0
		12	0	17.76	17.76	17.83	0-1	0
		12	6	17.89	17.75	17.86	0-1	0
		12	11	17.79	17.73	17.78	0-1	0
		25	0	17.85	17.73	17.78	0-1	0
	16QAM	1	0	18.02	18.08	18.05	0-1	0
		1	12	18.04	17.97	18.00	0-1	0
		1	24	17.97	17.81	17.98	0-1	0
		12	0	17.77	17.76	17.80	0-2	0
		12	6	17.87	17.81	17.86	0-2	0
		12	11	17.77	17.74	17.75	0-2	0
		25	0	17.85	17.78	17.80	0-2	0
	64QAM	1	0	17.85	17.96	17.93	0-2	0
		1	12	17.80	17.91	17.86	0-2	0
		1	24	17.82	17.71	17.72	0-2	0
		12	0	17.73	17.75	17.78	0-3	0
		12	6	17.84	17.77	17.82	0-3	0
		12	11	17.77	17.73	17.76	0-3	0
		25	0	17.83	17.74	17.77	0-3	0

LTE FDD Band 26 _ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26740 Ch. 819 MHz	26865 Ch. 831.5 MHz	26990 Ch. 844 MHz		
10 MHz	QPSK	1	0	17.90	17.75	17.79	0	0
		1	24	17.77	17.71	17.80	0	0
		1	49	17.78	17.69	17.64	0	0
		25	0	17.94	17.79	17.77	0-1	0
		25	12	17.90	17.79	17.74	0-1	0
		25	24	17.92	17.68	17.78	0-1	0
		50	0	17.96	17.75	17.75	0-1	0
	16QAM	1	0	18.17	17.93	17.96	0-1	0
		1	24	18.06	17.94	18.09	0-1	0
		1	49	18.09	18.01	17.80	0-1	0
		25	0	17.94	17.86	17.81	0-2	0
		25	12	17.89	17.77	17.81	0-2	0
		25	24	17.92	17.73	17.77	0-2	0
		50	0	18.02	17.77	17.77	0-2	0
	64QAM	1	0	17.99	17.90	17.89	0-2	0
		1	24	17.95	17.82	17.99	0-2	0
		1	49	17.90	17.82	17.76	0-2	0
		25	0	17.92	17.85	17.79	0-3	0
		25	12	17.89	17.80	17.79	0-3	0
		25	24	17.91	17.73	17.78	0-3	0
		50	0	17.99	17.75	17.72	0-3	0

LTE FDD Band 26 _ 15 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				26865 Ch. 831.5 MHz		
15 MHz	QPSK	1	0	17.95	0	0
		1	36	17.83	0	0
		1	74	17.84	0	0
		36	0	17.98	0-1	0
		36	18	17.90	0-1	0
		36	39	17.81	0-1	0
		75	0	17.94	0-1	0
	16QAM	1	0	18.24	0-1	0
		1	36	18.16	0-1	0
		1	74	18.14	0-1	0
		36	0	18.02	0-2	0
		36	18	17.96	0-2	0
		36	39	17.83	0-2	0
		75	0	17.91	0-2	0
	64QAM	1	0	18.08	0-2	0
		1	36	18.02	0-2	0
		1	74	17.84	0-2	0
		36	0	18.00	0-3	0
		36	18	17.95	0-3	0
		36	39	17.85	0-3	0
		75	0	17.90	0-3	0

LTE TDD Band 42 Maximum Conducted Output Power

LTE TDD Band 42 _ 5 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				41615 Ch. 3402.5 MHz	42115 Ch. 3452.5 MHz	42590 Ch. 3500 MHz	43065 Ch. 3547.5 MHz		
5 MHz	QPSK	1	0	17.45	17.20	17.78	17.82	0	0
		1	12	17.44	17.17	17.78	17.77	0	0
		1	24	17.41	17.19	17.79	17.79	0	0
		12	0	16.53	16.27	16.89	16.84	0-1	0
		12	6	16.51	16.23	16.87	16.87	0-1	0
		12	11	16.36	16.27	16.91	16.81	0-1	0
		25	0	16.41	16.28	16.90	16.84	0-1	0
	16QAM	1	0	16.47	16.27	16.87	16.91	0-1	0
		1	12	16.44	16.30	16.89	16.88	0-1	0
		1	24	16.47	16.26	16.94	16.92	0-1	0
		12	0	15.37	15.22	15.83	15.83	0-2	0
		12	6	15.34	15.22	15.87	15.86	0-2	0
		12	11	15.34	15.23	15.85	15.80	0-2	0
		25	0	15.42	15.26	15.89	15.86	0-2	0
	64QAM	1	0	16.18	16.02	15.51	15.53	0-2	0
		1	12	16.18	15.98	15.50	15.48	0-2	0
		1	24	16.20	15.96	15.57	15.51	0-2	0
		12	0	15.36	15.23	14.89	14.91	0-3	0
		12	6	15.41	15.29	14.95	14.89	0-3	0
		12	11	15.39	15.24	14.90	14.87	0-3	0
		25	0	15.37	15.23	14.92	14.90	0-3	0

LTE TDD Band 42 _ 10 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				41640 Ch. 3405 MHz	42140 Ch. 3455 MHz	42590 Ch. 3500 MHz	43040 Ch. 3545 MHz		
10 MHz	QPSK	1	0	17.32	17.14	17.73	17.89	0	0
		1	24	17.37	17.14	17.80	17.86	0	0
		1	49	17.40	17.23	17.88	17.86	0	0
		25	0	16.41	16.30	16.89	16.92	0-1	0
		25	12	16.43	16.37	16.91	16.97	0-1	0
		25	24	16.45	16.36	16.94	16.88	0-1	0
		50	0	16.42	16.34	16.88	16.94	0-1	0
	16QAM	1	0	16.45	16.27	16.86	17.00	0-1	0
		1	24	16.48	16.26	16.94	16.97	0-1	0
		1	49	16.51	16.36	16.98	16.93	0-1	0
		25	0	15.40	15.29	15.89	15.90	0-2	0
		25	12	15.41	15.37	15.90	15.95	0-2	0
		25	24	15.45	15.34	15.93	15.88	0-2	0
		50	0	15.45	15.38	15.93	15.96	0-2	0
	64QAM	1	0	16.17	15.97	15.46	15.58	0-2	0
		1	24	16.18	15.95	15.53	15.57	0-2	0
		1	49	16.21	16.09	15.60	15.55	0-2	0
		25	0	15.37	15.24	14.93	14.98	0-3	0
		25	12	15.38	15.33	14.94	14.98	0-3	0
		25	24	15.40	15.33	14.97	14.97	0-3	0
		50	0	15.41	15.33	14.92	14.92	0-3	0

LTE TDD Band 42 _ 15 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				41665 Ch. 3407.5 MHz	42165 Ch. 3457.5 MHz	42590 Ch. 3500 MHz	43015 Ch. 3542.5 MHz		
15 MHz	QPSK	1	0	17.40	17.26	17.75	17.93	0	0
		1	36	17.34	17.37	17.81	17.88	0	0
		1	74	17.46	17.48	18.00	17.93	0	0
		36	0	16.41	16.44	16.83	16.91	0-1	0
		36	18	16.43	16.45	16.93	16.94	0-1	0
		36	39	16.43	16.46	16.93	16.94	0-1	0
		75	0	16.46	16.45	16.93	16.93	0-1	0
	16QAM	1	0	16.50	16.38	16.82	17.03	0-1	0
		1	36	16.48	16.45	16.92	16.96	0-1	0
		1	74	16.58	16.59	17.08	17.01	0-1	0
		36	0	15.36	15.42	15.79	15.91	0-2	0
		36	18	15.39	15.40	15.88	15.90	0-2	0
		36	39	15.40	15.47	15.91	15.88	0-2	0
		75	0	15.47	15.46	15.93	15.93	0-2	0
	64QAM	1	0	16.17	16.10	15.41	15.61	0-2	0
		1	36	16.19	16.14	15.50	15.55	0-2	0
		1	74	16.27	16.27	15.69	15.62	0-2	0
		36	0	15.39	15.46	14.80	14.95	0-3	0
		36	18	15.41	15.44	14.89	14.90	0-3	0
		36	39	15.42	15.49	14.96	14.95	0-3	0
		75	0	15.47	15.46	14.93	14.94	0-3	0

LTE TDD Band 42 _ 20 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				41690 Ch. 3410 MHz	42190 Ch. 3460 MHz	42590 Ch. 3500 MHz	42990 Ch. 3540 MHz		
20 MHz	QPSK	1	0	17.40	17.25	17.62	17.93	0	0
		1	49	17.37	17.38	17.82	17.90	0	0
		1	99	17.43	17.44	18.00	17.96	0	0
		50	0	16.43	16.46	16.87	16.99	0-1	0
		50	25	16.47	16.46	16.94	17.01	0-1	0
		50	49	16.48	16.50	17.03	17.02	0-1	0
		100	0	16.46	16.46	16.90	17.00	0-1	0
	16QAM	1	0	16.51	16.38	16.73	17.07	0-1	0
		1	49	16.47	16.47	16.96	17.01	0-1	0
		1	99	16.54	16.58	17.09	17.01	0-1	0
		50	0	15.46	15.49	15.89	15.99	0-2	0
		50	25	15.49	15.48	15.96	16.02	0-2	0
		50	49	15.49	15.53	16.02	16.02	0-2	0
		100	0	15.46	15.48	15.95	16.01	0-2	0
	64QAM	1	0	16.20	16.08	15.33	15.66	0-2	0
		1	49	16.17	16.17	15.55	15.61	0-2	0
		1	99	16.25	16.26	15.71	15.61	0-2	0
		50	0	15.40	15.44	14.87	15.04	0-3	0
		50	25	15.44	15.44	14.95	15.00	0-3	0
		50	49	15.46	15.45	14.99	15.01	0-3	0
		100	0	15.49	15.50	14.91	14.99	0-3	0

LTE TDD Band 42 Reduced Conducted Output Power (Grip back Activated)

LTE TDD Band 42 _ 5 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				41615 Ch. 3402.5 MHz	42115 Ch. 3452.5 MHz	42590 Ch. 3500 MHz	43065 Ch. 3547.5 MHz		
5 MHz	QPSK	1	0	15.47	15.30	15.86	15.82	0	0
		1	12	15.46	15.29	15.84	15.85	0	0
		1	24	15.42	15.25	15.91	15.86	0	0
		12	0	15.51	15.33	15.91	15.89	0-1	0
		12	6	15.51	15.31	15.92	15.91	0-1	0
		12	11	15.53	15.34	15.88	15.88	0-1	0
		25	0	15.54	15.34	15.89	15.88	0-1	0
	16QAM	1	0	15.51	15.37	16.00	15.93	0-1	0
		1	12	15.52	15.29	15.86	15.92	0-1	0
		1	24	15.50	15.28	15.94	15.86	0-1	0
		12	0	15.54	15.30	15.86	15.85	0-2	0
		12	6	15.51	15.36	15.99	15.86	0-2	0
		12	11	15.43	15.30	15.88	15.86	0-2	0
		25	0	15.48	15.34	15.94	15.89	0-2	0
	64QAM	1	0	15.42	15.30	15.92	15.89	0-2	0
		1	12	15.48	15.22	15.88	15.85	0-2	0
		1	24	15.42	15.12	15.91	15.84	0-2	0
		12	0	14.53	14.33	14.96	14.86	0-3	0
		12	6	14.47	14.36	14.92	14.94	0-3	0
		12	11	14.49	14.32	14.93	14.88	0-3	0
		25	0	14.48	14.35	14.92	14.94	0-3	0

LTE TDD Band 42 _ 10 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				41640 Ch. 3405 MHz	42140 Ch. 3455 MHz	42590 Ch. 3500 MHz	43040 Ch. 3545 MHz		
10 MHz	QPSK	1	0	15.47	15.27	15.74	15.93	0	0
		1	24	15.47	15.26	15.81	15.91	0	0
		1	49	15.48	15.39	15.93	15.89	0	0
		25	0	15.54	15.32	15.90	15.94	0-1	0
		25	12	15.54	15.44	15.91	15.99	0-1	0
		25	24	15.55	15.41	15.94	15.91	0-1	0
		50	0	15.51	15.45	15.93	15.96	0-1	0
	16QAM	1	0	15.47	15.29	15.86	15.92	0-1	0
		1	24	15.52	15.29	15.92	15.98	0-1	0
		1	49	15.48	15.36	16.02	15.95	0-1	0
		25	0	15.51	15.39	15.91	15.97	0-2	0
		25	12	15.52	15.45	15.96	15.99	0-2	0
		25	24	15.50	15.45	15.98	15.91	0-2	0
		50	0	15.48	15.40	15.93	15.96	0-2	0
	64QAM	1	0	15.45	15.21	15.83	15.85	0-2	0
		1	24	15.47	15.26	15.90	15.85	0-2	0
		1	49	15.51	15.33	15.99	15.83	0-2	0
		25	0	14.52	14.37	14.92	14.96	0-3	0
		25	12	14.57	14.44	14.93	14.95	0-3	0
		25	24	14.48	14.45	14.96	14.96	0-3	0
		50	0	14.54	14.40	14.93	14.95	0-3	0

LTE TDD Band 42 _ 15 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				41665 Ch. 3407.5 MHz	42165 Ch. 3457.5 MHz	42590 Ch. 3500 MHz	43015 Ch. 3542.5 MHz		
15 MHz	QPSK	1	0	15.47	15.36	15.76	15.94	0	0
		1	36	15.45	15.43	15.85	15.85	0	0
		1	74	15.57	15.55	16.06	15.93	0	0
		36	0	15.49	15.45	15.85	15.93	0-1	0
		36	18	15.57	15.51	15.94	15.96	0-1	0
		36	39	15.57	15.48	15.95	15.97	0-1	0
		75	0	15.52	15.52	15.93	15.96	0-1	0
	16QAM	1	0	15.48	15.42	15.85	16.01	0-1	0
		1	36	15.48	15.46	15.90	15.95	0-1	0
		1	74	15.55	15.56	16.06	16.05	0-1	0
		36	0	15.51	15.51	15.89	15.95	0-2	0
		36	18	15.51	15.57	15.96	15.96	0-2	0
		36	39	15.51	15.52	15.99	15.99	0-2	0
		75	0	15.52	15.52	15.93	15.96	0-2	0
	64QAM	1	0	15.38	15.36	15.70	15.88	0-2	0
		1	36	15.55	15.36	15.77	15.83	0-2	0
		1	74	15.53	15.50	16.02	15.96	0-2	0
		36	0	14.51	14.49	14.86	14.97	0-3	0
		36	18	14.49	14.54	14.95	14.99	0-3	0
		36	39	14.51	14.51	15.01	14.95	0-3	0
		75	0	14.51	14.52	14.96	14.96	0-3	0

LTE TDD Band 42 _ 20 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				41690 Ch. 3410 MHz	42190 Ch. 3460 MHz	42590 Ch. 3500 MHz	42990 Ch. 3540 MHz		
20 MHz	QPSK	1	0	15.41	15.34	15.61	16.00	0	0
		1	49	15.43	15.37	15.80	15.97	0	0
		1	99	16.01	16.01	16.02	16.01	0	0
		50	0	15.52	15.47	15.86	16.00	0-1	0
		50	25	15.54	15.51	15.95	16.02	0-1	0
		50	49	16.02	16.03	16.04	16.03	0-1	0
		100	0	15.53	15.51	15.95	16.03	0-1	0
	16QAM	1	0	15.44	15.28	15.65	16.00	0-1	0
		1	49	15.47	15.47	15.97	16.04	0-1	0
		1	99	15.53	15.50	16.10	16.04	0-1	0
		50	0	15.51	15.51	15.89	16.03	0-2	0
		50	25	15.53	15.52	15.96	16.04	0-2	0
		50	49	15.52	15.57	16.04	16.02	0-2	0
		100	0	15.52	15.49	15.95	16.05	0-2	0
	64QAM	1	0	15.50	15.19	15.68	16.01	0-2	0
		1	49	15.52	15.42	15.89	15.89	0-2	0
		1	99	15.43	15.48	16.12	15.94	0-2	0
		50	0	14.52	14.51	14.89	14.99	0-3	0
		50	25	14.55	14.49	14.97	15.03	0-3	0
		50	49	14.53	14.54	15.01	15.01	0-3	0
		100	0	14.53	14.48	14.93	15.01	0-3	0

LTE TDD Band 48 Maximum Conducted Output Power

LTE TDD Band 48 _ 5 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				55265 Ch. 3552.5 MHz	55748 Ch. 3600.8 MHz	56232 Ch. 3649.2 MHz	56715 Ch. 3697.5 MHz		
5 MHz	QPSK	1	0	17.98	18.04	18.05	18.04	0	0
		1	12	17.94	18.10	17.99	18.11	0	0
		1	24	17.95	18.05	18.02	18.02	0	0
		12	0	17.04	17.12	17.03	17.10	0-1	1
		12	6	17.04	17.15	17.03	17.12	0-1	1
		12	11	16.98	17.13	16.99	17.11	0-1	1
		25	0	17.00	17.14	17.02	17.14	0-1	1
	16QAM	1	0	17.12	17.22	17.11	17.24	0-1	1
		1	12	17.14	17.20	17.08	17.21	0-1	1
		1	24	17.11	17.27	17.12	17.25	0-1	1
		12	0	16.01	16.12	16.01	16.08	0-2	2
		12	6	15.90	16.11	16.01	16.09	0-2	2
		12	11	15.88	16.10	15.99	16.09	0-2	2
		25	0	15.93	16.13	16.03	16.13	0-2	2
	64QAM	1	0	16.37	16.42	16.44	16.53	0-2	2
		1	12	16.23	16.44	16.32	16.43	0-2	2
		1	24	16.19	16.44	16.30	16.49	0-2	2
		12	0	15.34	15.48	15.39	15.56	0-3	3
		12	6	15.36	15.49	15.49	15.58	0-3	3
		12	11	15.28	15.54	15.43	15.56	0-3	3
		25	0	15.32	15.50	15.44	15.53	0-3	3

LTE TDD Band 48 _ 10 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				55290 Ch. 3555 MHz	55757 Ch. 3601.7 MHz	56223 Ch. 3648.3 MHz	56690 Ch. 3695 MHz		
10 MHz	QPSK	1	0	17.86	18.02	18.02	18.14	0	0
		1	24	17.87	18.07	18.02	18.07	0	0
		1	49	17.87	18.15	18.05	18.14	0	0
		25	0	16.93	17.23	17.14	17.09	0-1	1
		25	12	16.95	17.17	17.06	17.14	0-1	1
		25	24	16.91	17.13	17.11	17.14	0-1	1
		50	0	16.92	17.16	17.12	17.13	0-1	1
	16QAM	1	0	17.02	17.22	17.16	17.19	0-1	1
		1	24	17.01	17.27	17.10	17.22	0-1	1
		1	49	17.05	17.29	17.14	17.30	0-1	1
		25	0	15.93	16.15	16.05	16.12	0-2	2
		25	12	15.92	16.16	16.06	16.15	0-2	2
		25	24	15.93	16.17	16.02	16.24	0-2	2
		50	0	15.94	16.17	16.11	16.15	0-2	2
	64QAM	1	0	16.24	16.36	16.41	16.43	0-2	2
		1	24	16.37	16.46	16.45	16.44	0-2	2
		1	49	16.26	16.47	16.42	16.47	0-2	2
		25	0	15.30	15.47	15.43	15.52	0-3	3
		25	12	15.35	15.53	15.48	15.54	0-3	3
		25	24	15.27	15.53	15.46	15.55	0-3	3
		50	0	15.30	15.51	15.46	15.50	0-3	3

LTE TDD Band 48 _ 15 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				55315 Ch. 3557.5 MHz	55765 Ch. 3602.5 MHz	56215 Ch. 3647.5 MHz	56665 Ch. 3692.5 MHz		
15 MHz	QPSK	1	0	17.92	18.05	18.00	18.02	0	0
		1	36	17.93	18.14	17.94	18.08	0	0
		1	74	18.03	18.25	18.13	18.23	0	0
		36	0	16.93	17.23	17.05	17.13	0-1	1
		36	18	16.94	17.19	17.06	17.11	0-1	1
		36	39	17.03	17.26	17.02	17.14	0-1	1
		75	0	16.92	17.13	17.13	17.10	0-1	1
	16QAM	1	0	17.01	17.32	17.18	17.17	0-1	1
		1	36	17.00	17.22	17.14	17.33	0-1	1
		1	74	17.12	17.49	17.21	17.48	0-1	1
		36	0	15.84	16.05	15.98	16.03	0-2	2
		36	18	15.89	16.26	16.01	16.22	0-2	2
		36	39	15.89	16.27	16.14	16.22	0-2	2
		75	0	15.96	16.17	16.07	16.21	0-2	2
	64QAM	1	0	16.28	16.48	16.46	16.55	0-2	2
		1	36	16.21	16.46	16.41	16.40	0-2	2
		1	74	16.31	16.55	16.47	16.63	0-2	2
		36	0	15.28	15.46	15.43	15.45	0-3	3
		36	18	15.30	15.54	15.44	15.54	0-3	3
		36	39	15.34	15.52	15.46	15.54	0-3	3
		75	0	15.27	15.55	15.43	15.56	0-3	3

LTE TDD Band 48 _ 20 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				55340 Ch. 3560 MHz	55773 Ch. 3603.3 MHz	56207 Ch. 3646.7 MHz	56640 Ch. 3690 MHz		
20 MHz	QPSK	1	0	18.06	18.16	18.14	17.94	0	0
		1	49	17.95	18.19	18.00	18.10	0	0
		1	99	18.15	18.30	18.19	18.29	0	0
		50	0	17.03	17.18	17.11	17.04	0-1	1
		50	25	16.93	17.25	17.16	17.17	0-1	1
		50	49	17.05	17.30	17.12	17.26	0-1	1
		100	0	17.03	17.26	17.16	17.15	0-1	1
	16QAM	1	0	17.02	17.26	17.27	17.20	0-1	1
		1	49	17.16	17.34	17.24	17.30	0-1	1
		1	99	17.22	17.47	17.29	17.47	0-1	1
		50	0	16.04	16.26	16.10	16.14	0-2	2
		50	25	15.98	16.29	16.18	16.25	0-2	2
		50	49	16.12	16.31	16.20	16.31	0-2	2
		100	0	16.11	16.28	16.18	16.24	0-2	2
	64QAM	1	0	16.24	16.49	16.38	16.35	0-2	2
		1	49	16.23	16.56	16.34	16.50	0-2	2
		1	99	16.33	16.64	16.46	16.68	0-2	2
		50	0	15.28	15.46	15.44	15.45	0-3	3
		50	25	15.34	15.54	15.48	15.49	0-3	3
		50	49	15.33	15.59	15.44	15.60	0-3	3
		100	0	15.33	15.52	15.50	15.49	0-3	3

LTE TDD Band 48 Reduced Conducted Output Power (Grip back Activated)

LTE TDD Band 48 _ 5 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				55265 Ch. 3552.5 MHz	55748 Ch. 3600.8 MHz	56232 Ch. 3649.2 MHz	56715 Ch. 3697.5 MHz		
5 MHz	QPSK	1	0	15.89	16.13	16.00	16.03	0	0
		1	12	15.87	16.10	15.97	16.01	0	0
		1	24	15.82	16.11	15.96	16.05	0	0
		12	0	15.93	16.11	16.01	16.11	0-1	0
		12	6	15.93	16.14	16.00	16.12	0-1	0
		12	11	15.91	16.12	16.00	16.11	0-1	0
		25	0	15.91	16.14	16.02	16.11	0-1	0
	16QAM	1	0	15.99	16.22	16.10	16.17	0-1	0
		1	12	16.02	16.19	16.09	16.18	0-1	0
		1	24	16.01	16.21	16.11	16.23	0-1	0
		12	0	15.91	16.09	16.00	16.07	0-2	0
		12	6	15.90	16.15	16.01	16.11	0-2	0
		12	11	15.89	16.17	15.99	16.07	0-2	0
		25	0	15.90	16.15	16.01	16.13	0-2	0
	64QAM	1	0	16.30	16.44	16.33	16.21	0-2	0
		1	12	16.22	16.46	16.29	16.18	0-2	0
		1	24	16.24	16.52	16.35	16.24	0-2	0
		12	0	15.33	15.53	15.48	15.58	0-3	1
		12	6	15.37	15.50	15.45	15.58	0-3	1
		12	11	15.24	15.53	15.42	15.57	0-3	1
		25	0	15.27	15.47	15.44	15.59	0-3	1

LTE TDD Band 48 _ 10 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				55290 Ch. 3555 MHz	55757 Ch. 3601.7 MHz	56223 Ch. 3648.3 MHz	56690 Ch. 3695 MHz		
10 MHz	QPSK	1	0	15.83	16.08	15.94	15.98	0	0
		1	24	15.85	16.11	15.96	16.12	0	0
		1	49	15.88	16.15	15.96	16.10	0	0
		25	0	15.94	16.11	16.02	16.10	0-1	0
		25	12	15.94	16.16	16.06	16.12	0-1	0
		25	24	15.93	16.14	16.01	16.12	0-1	0
		50	0	15.90	16.17	16.02	16.07	0-1	0
	16QAM	1	0	15.99	16.20	16.11	16.16	0-1	0
		1	24	15.98	16.23	16.09	16.19	0-1	0
		1	49	16.02	16.25	16.09	16.28	0-1	0
		25	0	15.93	16.11	16.04	16.09	0-2	0
		25	12	15.95	16.19	16.05	16.15	0-2	0
		25	24	15.95	16.15	16.04	16.14	0-2	0
		50	0	15.95	16.21	16.05	16.18	0-2	0
	64QAM	1	0	16.25	16.40	16.55	16.16	0-2	0
		1	24	16.30	16.42	16.35	16.18	0-2	0
		1	49	16.29	16.58	16.42	16.29	0-2	0
		25	0	15.26	15.51	15.44	15.55	0-3	1
		25	12	15.28	15.53	15.44	15.62	0-3	1
		25	24	15.25	15.52	15.40	15.60	0-3	1
		50	0	15.24	15.50	15.41	15.55	0-3	1

LTE TDD Band 48 _ 15 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				55315 Ch. 3557.5 MHz	55765 Ch. 3602.5 MHz	56215 Ch. 3647.5 MHz	56665 Ch. 3692.5 MHz		
15 MHz	QPSK	1	0	15.88	16.04	16.03	15.98	0	0
		1	36	15.84	16.14	16.01	15.98	0	0
		1	74	15.94	16.22	16.10	16.18	0	0
		36	0	15.91	16.14	16.04	16.03	0-1	0
		36	18	15.97	16.14	16.05	16.12	0-1	0
		36	39	15.94	16.15	16.04	16.13	0-1	0
		75	0	15.93	16.14	16.01	16.11	0-1	0
	16QAM	1	0	15.99	16.16	16.14	16.21	0-1	0
		1	36	15.98	16.25	16.11	16.19	0-1	0
		1	74	16.11	16.34	16.19	16.35	0-1	0
		36	0	15.88	16.11	16.01	16.00	0-2	0
		36	18	15.93	16.13	16.04	16.06	0-2	0
		36	39	15.92	16.16	16.00	16.15	0-2	0
		75	0	15.95	16.16	16.05	16.12	0-2	0
	64QAM	1	0	16.20	16.43	16.44	16.10	0-2	0
		1	36	16.21	16.38	16.39	16.14	0-2	0
		1	74	16.40	16.64	16.44	16.34	0-2	0
		36	0	15.22	15.55	15.42	15.48	0-3	1
		36	18	15.28	15.55	15.46	15.51	0-3	1
		36	39	15.25	15.56	15.45	15.59	0-3	1
		75	0	15.30	15.54	15.47	15.53	0-3	1

LTE TDD Band 48 _ 20 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per GPP [dB]	MPR [dB]
				55340 Ch. 3560 MHz	55773 Ch. 3603.3 MHz	56207 Ch. 3646.7 MHz	56640 Ch. 3690 MHz		
20 MHz	QPSK	1	0	15.85	16.07	16.01	15.94	0	0
		1	49	15.83	16.11	15.99	16.06	0	0
		1	99	15.98	16.23	16.04	16.22	0	0
		50	0	15.94	16.08	16.02	16.03	0-1	0
		50	25	15.93	16.16	16.02	16.06	0-1	0
		50	49	15.99	16.21	16.07	16.16	0-1	0
		100	0	15.93	16.18	16.06	16.06	0-1	0
	16QAM	1	0	16.00	16.17	16.14	16.07	0-1	0
		1	49	15.99	16.21	16.09	16.17	0-1	0
		1	99	16.11	16.30	16.14	16.33	0-1	0
		50	0	15.99	16.12	16.05	16.07	0-2	0
		50	25	15.98	16.20	16.10	16.14	0-2	0
		50	49	16.03	16.24	16.12	16.18	0-2	0
		100	0	15.97	16.21	16.08	16.16	0-2	0
	64QAM	1	0	15.93	16.08	16.12	16.10	0-2	0
		1	49	15.94	16.14	16.08	16.17	0-2	0
		1	99	16.01	16.29	16.14	16.35	0-2	0
		50	0	15.26	15.50	15.48	15.45	0-3	1
		50	25	15.32	15.53	15.47	15.56	0-3	1
		50	49	15.33	15.55	15.47	15.58	0-3	1
		100	0	15.33	15.53	15.44	15.55	0-3	1

LTE FDD Band 66 Maximum Conducted Output Power

LTE FDD Band 66 _ 1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131979Ch. 1710.7 MHz	132322 Ch. 1745 MHz	132665 Ch. 1779.3 MHz		
1.4 MHz	QPSK	1	0	23.10	23.10	22.85	0	0
		1	3	23.24	23.19	22.92	0	0
		1	5	23.11	23.11	22.83	0	0
		3	0	23.19	23.17	22.86	0	0
		3	1	23.19	23.18	22.94	0	0
		3	3	23.18	23.14	22.85	0	0
		6	0	22.26	22.19	21.91	0-1	1
	16QAM	1	0	22.45	22.32	22.13	0-1	1
		1	3	22.41	22.45	22.22	0-1	1
		1	5	22.46	22.36	22.07	0-1	1
		3	0	22.23	22.16	21.90	0-1	1
		3	1	22.16	22.18	21.86	0-1	1
		3	3	22.19	22.12	21.87	0-1	1
		6	0	21.33	21.26	20.98	0-2	2
	64QAM	1	0	21.35	21.40	21.02	0-2	2
		1	3	21.37	21.49	21.03	0-2	2
		1	5	21.39	21.26	20.95	0-2	2
		3	0	21.33	21.35	20.99	0-2	2
		3	1	21.40	21.38	21.02	0-2	2
		3	3	21.26	21.28	20.96	0-2	2
		6	0	20.23	20.19	19.97	0-3	3

LTE FDD Band 66 _ 3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131987 Ch. 1711.5 MHz	132322 Ch. 1745 MHz	132657 Ch. 1778.5 MHz		
3 MHz	QPSK	1	0	23.19	23.16	22.94	0	0
		1	7	23.31	23.26	22.99	0	0
		1	14	23.19	23.16	22.84	0	0
		8	0	22.28	22.20	21.93	0-1	1
		8	3	22.27	22.24	21.98	0-1	1
		8	7	22.26	22.23	21.89	0-1	1
		15	0	22.29	22.27	21.98	0-1	1
	16QAM	1	0	22.41	22.50	22.08	0-1	1
		1	7	22.54	22.62	22.24	0-1	1
		1	14	22.41	22.41	22.04	0-1	1
		8	0	21.28	21.31	21.00	0-2	2
		8	3	21.36	21.40	21.08	0-2	2
		8	7	21.25	21.32	21.02	0-2	2
		15	0	21.28	21.27	20.99	0-2	2
	64QAM	1	0	21.35	21.49	21.15	0-2	2
		1	7	21.41	21.60	21.18	0-2	2
		1	14	21.34	21.41	21.08	0-2	2
		8	0	20.31	20.31	19.99	0-3	3
		8	3	20.30	20.38	20.01	0-3	3
		8	7	20.30	20.30	20.02	0-3	3
		15	0	20.31	20.27	19.99	0-3	3

LTE FDD Band 66 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131997 Ch. 1712.5 MHz	132322Ch. 1745 MHz	132647 Ch. 1777.5 MHz		
5 MHz	QPSK	1	0	23.17	23.16	22.93	0	0
		1	12	23.21	23.17	22.92	0	0
		1	24	23.18	23.16	22.91	0	0
		12	0	22.28	22.20	21.94	0-1	1
		12	6	22.34	22.27	22.05	0-1	1
		12	11	22.29	22.25	21.97	0-1	1
		25	0	22.27	22.26	21.94	0-1	1
	16QAM	1	0	22.43	22.48	22.24	0-1	1
		1	12	22.36	22.45	22.24	0-1	1
		1	24	22.38	22.42	22.09	0-1	1
		12	0	21.27	21.32	20.95	0-2	2
		12	6	21.29	21.30	21.04	0-2	2
		12	11	21.27	21.29	20.98	0-2	2
		25	0	21.27	21.28	20.98	0-2	2
	64QAM	1	0	21.33	21.50	21.16	0-2	2
		1	12	21.33	21.52	21.17	0-2	2
		1	24	21.38	21.44	21.05	0-2	2
		12	0	20.28	20.33	20.02	0-3	3
		12	6	20.32	20.34	20.01	0-3	3
		12	11	20.33	20.31	19.98	0-3	3
		25	0	20.24	20.26	19.93	0-3	3

LTE FDD Band 66 _ 10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132022 Ch. 1715 MHz	132322 Ch. 1745 MHz	132622 Ch. 1775 MHz		
10 MHz	QPSK	1	0	23.15	23.25	22.94	0	0
		1	24	23.18	23.21	22.95	0	0
		1	49	23.19	23.15	22.88	0	0
		25	0	22.26	22.23	21.99	0-1	1
		25	12	22.27	22.27	22.00	0-1	1
		25	24	22.27	22.26	22.00	0-1	1
		50	0	22.27	22.29	22.01	0-1	1
	16QAM	1	0	22.46	22.52	22.25	0-1	1
		1	24	22.45	22.55	22.25	0-1	1
		1	49	22.49	22.54	22.25	0-1	1
		25	0	21.21	21.27	21.03	0-2	2
		25	12	21.24	21.32	21.03	0-2	2
		25	24	21.23	21.27	20.94	0-2	2
		50	0	21.27	21.31	20.97	0-2	2
	64QAM	1	0	21.31	21.39	21.15	0-2	2
		1	24	21.31	21.49	21.14	0-2	2
		1	49	21.40	21.41	21.14	0-2	2
		25	0	20.27	20.27	19.97	0-3	3
		25	12	20.29	20.31	19.98	0-3	3
		25	24	20.28	20.24	19.99	0-3	3
		50	0	20.23	20.31	19.99	0-3	3

LTE FDD Band 66 _ 15 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132047 Ch. 1717.5 MHz	132322 Ch. 1745 MHz	132597 Ch. 1772.5 MHz		
15 MHz	QPSK	1	0	23.19	23.22	22.91	0	0
		1	36	23.18	23.19	22.90	0	0
		1	74	23.20	23.14	22.89	0	0
		36	0	22.23	22.27	21.99	0-1	1
		36	18	22.25	22.29	22.03	0-1	1
		36	39	22.22	22.23	22.01	0-1	1
		75	0	22.23	22.26	22.00	0-1	1
	16QAM	1	0	22.30	22.47	22.16	0-1	1
		1	36	22.43	22.43	22.26	0-1	1
		1	74	22.48	22.41	22.24	0-1	1
		36	0	21.17	21.28	21.03	0-2	2
		36	18	21.20	21.33	21.02	0-2	2
		36	39	21.27	21.30	21.00	0-2	2
		75	0	21.24	21.28	20.98	0-2	2
	64QAM	1	0	21.26	21.47	21.14	0-2	2
		1	36	21.35	21.48	21.16	0-2	2
		1	74	21.39	21.45	21.10	0-2	2
		36	0	20.23	20.33	20.00	0-3	3
		36	18	20.28	20.33	20.04	0-3	3
		36	39	20.25	20.33	20.05	0-3	3
		75	0	20.22	20.26	20.02	0-3	3

LTE FDD Band 66 _ 20 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132072 Ch. 1720 MHz	132322 Ch. 1745 MHz	132572 Ch. 1770 MHz		
20 MHz	QPSK	1	0	23.13	23.19	22.89	0	0
		1	49	23.18	23.19	22.94	0	0
		1	99	23.17	23.14	22.94	0	0
		50	0	22.26	22.23	22.06	0-1	1
		50	25	22.27	22.31	22.08	0-1	1
		50	49	22.24	22.26	22.05	0-1	1
		100	0	22.21	22.26	22.00	0-1	1
	16QAM	1	0	22.38	22.55	22.18	0-1	1
		1	49	22.49	22.62	22.30	0-1	1
		1	99	22.49	22.50	22.23	0-1	1
		50	0	21.20	21.29	21.03	0-2	2
		50	25	21.29	21.33	21.05	0-2	2
		50	49	21.26	21.25	21.01	0-2	2
		100	0	21.22	21.25	20.99	0-2	2
	64QAM	1	0	21.28	21.35	21.12	0-2	2
		1	49	21.36	21.50	21.17	0-2	2
		1	99	21.44	21.36	21.14	0-2	2
		50	0	20.24	20.31	20.03	0-3	3
		50	25	20.26	20.32	20.04	0-3	3
		50	49	20.29	20.30	20.07	0-3	3
		100	0	20.21	20.25	20.01	0-3	3

LTE FDD Band 66 Reduced Conducted Output Power (Grip back Activated)

LTE FDD Band 66_1.4 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131979Ch. 1710.7 MHz	132322 Ch. 1745 MHz	132665 Ch. 1779.3 MHz		
1.4 MHz	QPSK	1	0	15.57	15.63	15.39	0	0
		1	3	15.66	15.70	15.50	0	0
		1	5	15.60	15.58	15.42	0	0
		3	0	15.59	15.62	15.46	0	0
		3	1	15.66	15.67	15.47	0	0
		3	3	15.59	15.56	15.41	0	0
		6	0	15.68	15.62	15.45	0-1	0
	16QAM	1	0	15.91	15.85	15.66	0-1	0
		1	3	16.05	16.01	15.73	0-1	0
		1	5	15.79	15.84	15.62	0-1	0
		3	0	15.69	15.73	15.53	0-1	0
		3	1	15.76	15.76	15.53	0-1	0
		3	3	15.65	15.71	15.46	0-1	0
		6	0	15.75	15.77	15.55	0-2	0
	64QAM	1	0	15.85	15.75	15.54	0-2	0
		1	3	15.88	15.79	15.65	0-2	0
		1	5	15.88	15.86	15.58	0-2	0
		3	0	15.78	15.84	15.55	0-2	0
		3	1	15.80	15.83	15.63	0-2	0
		3	3	15.77	15.78	15.56	0-2	0
		6	0	15.63	15.61	15.44	0-3	0

LTE FDD Band 66_3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131987 Ch. 1711.5 MHz	132322 Ch. 1745 MHz	132657 Ch. 1778.5 MHz		
3 MHz	QPSK	1	0	15.60	15.66	15.46	0	0
		1	7	15.73	15.77	15.61	0	0
		1	14	15.65	15.67	15.46	0	0
		8	0	15.67	15.67	15.54	0-1	0
		8	3	15.71	15.74	15.54	0-1	0
		8	7	15.62	15.70	15.51	0-1	0
		15	0	15.75	15.66	15.50	0-1	0
	16QAM	1	0	15.89	15.96	15.74	0-1	0
		1	7	16.16	16.06	15.84	0-1	0
		1	14	15.98	16.05	15.64	0-1	0
		8	0	15.78	15.80	15.58	0-2	0
		8	3	15.84	15.84	15.65	0-2	0
		8	7	15.76	15.80	15.56	0-2	0
		15	0	15.74	15.71	15.53	0-2	0
	64QAM	1	0	15.85	15.81	15.55	0-2	0
		1	7	16.04	16.07	15.78	0-2	0
		1	14	15.86	15.81	15.64	0-2	0
		8	0	15.76	15.79	15.59	0-3	0
		8	3	15.81	15.79	15.62	0-3	0
		8	7	15.75	15.79	15.61	0-3	0
		15	0	15.74	15.74	15.52	0-3	0

LTE FDD Band 66_5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131997 Ch. 1712.5 MHz	132322Ch. 1745 MHz	132647 Ch. 1777.5 MHz		
5 MHz	QPSK	1	0	15.66	15.60	15.45	0	0
		1	12	15.65	15.68	15.49	0	0
		1	24	15.64	15.60	15.44	0	0
		12	0	15.72	15.69	15.51	0-1	0
		12	6	15.75	15.69	15.50	0-1	0
		12	11	15.69	15.72	15.55	0-1	0
		25	0	15.71	15.68	15.51	0-1	0
	16QAM	1	0	15.92	15.93	15.80	0-1	0
		1	12	15.97	15.98	15.68	0-1	0
		1	24	15.81	16.08	15.83	0-1	0
		12	0	15.71	15.79	15.56	0-2	0
		12	6	15.76	15.76	15.59	0-2	0
		12	11	15.73	15.78	15.56	0-2	0
		25	0	15.70	15.73	15.53	0-2	0
	64QAM	1	0	15.93	15.95	15.70	0-2	0
		1	12	15.85	15.93	15.71	0-2	0
		1	24	15.81	15.91	15.61	0-2	0
		12	0	15.76	15.78	15.56	0-3	0
		12	6	15.84	15.81	15.63	0-3	0
		12	11	15.82	15.78	15.60	0-3	0
		25	0	15.73	15.71	15.53	0-3	0

LTE FDD Band 66_10 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132022 Ch. 1715 MHz	132322 Ch. 1745 MHz	132622 Ch. 1775 MHz		
10 MHz	QPSK	1	0	15.60	15.72	15.49	0	0
		1	24	15.64	15.71	15.53	0	0
		1	49	15.66	15.61	15.48	0	0
		25	0	15.73	15.68	15.57	0-1	0
		25	12	15.71	15.70	15.55	0-1	0
		25	24	15.72	15.68	15.50	0-1	0
		50	0	15.71	15.69	15.53	0-1	0
	16QAM	1	0	15.91	16.04	15.82	0-1	0
		1	24	15.88	16.11	15.91	0-1	0
		1	49	15.85	16.06	15.82	0-1	0
		25	0	15.70	15.74	15.59	0-2	0
		25	12	15.73	15.75	15.57	0-2	0
		25	24	15.70	15.74	15.51	0-2	0
		50	0	15.74	15.72	15.55	0-2	0
	64QAM	1	0	15.85	15.87	15.68	0-2	0
		1	24	15.92	15.92	15.73	0-2	0
		1	49	15.91	15.91	15.66	0-2	0
		25	0	15.76	15.75	15.57	0-3	0
		25	12	15.76	15.78	15.57	0-3	0
		25	24	15.72	15.72	15.53	0-3	0
		50	0	15.73	15.70	15.57	0-3	0

LTE FDD Band 66_15 MHz Bandwidth Conducted Power

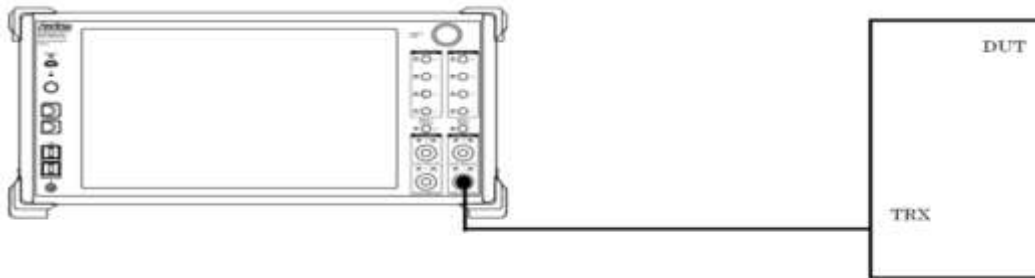
Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132047 Ch. 1717.5 MHz	132322 Ch. 1745 MHz	132597 Ch. 1772.5 MHz		
15 MHz	QPSK	1	0	15.62	15.66	15.47	0	0
		1	36	15.65	15.67	15.50	0	0
		1	74	15.68	15.62	15.54	0	0
		36	0	15.67	15.67	15.55	0-1	0
		36	18	15.72	15.74	15.60	0-1	0
		36	39	15.70	15.69	15.58	0-1	0
		75	0	15.65	15.69	15.54	0-1	0
	16QAM	1	0	15.97	16.11	15.72	0-1	0
		1	36	15.97	15.99	15.73	0-1	0
		1	74	15.95	16.03	15.87	0-1	0
		36	0	15.66	15.78	15.57	0-2	0
		36	18	15.71	15.78	15.63	0-2	0
		36	39	15.74	15.74	15.58	0-2	0
		75	0	15.72	15.76	15.60	0-2	0
	64QAM	1	0	15.88	15.92	15.76	0-2	0
		1	36	15.82	15.84	15.66	0-2	0
		1	74	15.84	15.87	15.70	0-2	0
		36	0	15.75	15.75	15.58	0-3	0
		36	18	15.80	15.79	15.62	0-3	0
		36	39	15.77	15.75	15.60	0-3	0
		75	0	15.71	15.74	15.60	0-3	0

LTE FDD Band 66_20 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132072 Ch. 1720 MHz	132322 Ch. 1745 MHz	132572 Ch. 1770 MHz		
20 MHz	QPSK	1	0	15.60	15.64	15.52	0	0
		1	49	15.62	15.69	15.48	0	0
		1	99	15.69	15.68	15.52	0	0
		50	0	15.67	15.68	15.59	0-1	0
		50	25	15.74	15.70	15.58	0-1	0
		50	49	15.69	15.68	15.57	0-1	0
		100	0	15.66	15.71	15.56	0-1	0
	16QAM	1	0	15.87	15.92	15.87	0-1	0
		1	49	15.97	16.14	15.88	0-1	0
		1	99	16.01	15.94	15.90	0-1	0
		50	0	15.71	15.75	15.60	0-2	0
		50	25	15.72	15.77	15.61	0-2	0
		50	49	15.75	15.71	15.61	0-2	0
		100	0	15.71	15.74	15.56	0-2	0
	64QAM	1	0	15.74	15.84	15.68	0-2	0
		1	49	15.85	15.82	15.75	0-2	0
		1	99	15.81	15.83	15.76	0-2	0
		50	0	15.69	15.76	15.62	0-3	0
		50	25	15.71	15.77	15.60	0-3	0
		50	49	15.71	15.75	15.61	0-3	0
		100	0	15.71	15.72	15.60	0-3	0

11.5 LTE Up-link Carrier aggregation Conducted Powers Setup

To measure the LTE UP CA power of this device, Anritsu's MT8821C was used to check the power as follows.



Power Measurement setup

TDD CA_41C Intra-Band Contiguous Call Connection

Set to MT8821C with following parameters:

- Set up the call box for PCC Configuration for LTE Uplink CA
- Set up the call box for SCC Configuration for LTE Uplink CA
- Measure the maximum output power in Uplink LTE CA conditions.

The screenshot shows the MT8821C software interface. The top bar displays 'Phone1' and 'Phone2' settings. The central area has 'Measurement' and 'Signaling' tabs. The 'Signaling' tab is active, showing a 'Sequence Monitor' and a 'Signaling Trace'. The 'Authentication Key K' is highlighted in red in the 'Authentication Key K' field. The 'Signaling Trace' shows a list of messages and their descriptions.

U-S	Message	Description	Time at RRC
U->S	ULInformationTransfer	IDENTITY RESPONSE	00:27:01.089 (00:00:015)
S->U	UECapabilityInquiry		00:27:01.089 (00:00:000)
S->U	UECapabilityInformation		00:27:01.243 (00:00:154)
U->S	ULInformationTransfer	AUTHENTICATION REQUEST	00:27:01.244 (00:00:001)
S->U	ULInformationTransfer	AUTHENTICATION RESPONSE	00:27:01.283 (00:00:039)
U->S	ULInformationTransfer	SECURITY MODE COMMAND	00:27:01.293 (00:00:010)
U->S	ULInformationTransfer	SECURITY MODE COMPLETE	00:27:01.399 (00:00:106)
U->S	ULInformationTransfer	ACTIVATE TEST MODE	00:27:01.409 (00:00:010)
U->S	ULInformationTransfer	ACTIVATE TEST MODE COMPLETE	00:27:01.424 (00:00:015)
S->U	SecurityModeCommand		00:27:01.424 (00:00:000)
S->U	SecurityModeComplete		00:27:01.579 (00:00:155)
S->U	RRCConnectionReconfiguration	ATTACH ACCEPT	00:27:01.594 (00:00:015)
S->U	RRCConnectionReconfigurationComplete		00:27:01.618 (00:00:024)
S->U	ULInformationTransfer	ATTACH COMPLETE	00:27:01.639 (00:00:021)
S->U	RRCConnectionRelease		00:27:01.739 (00:00:100)

Call 1 :Select PCC Configuration for Authentication key to Register

Phone2: LTE, Phone1: LTE, DL Channel: 400 MHz, TPC Pattern: 400 MHz, Input Level: 30.0 dBm, Operation Band: 40, Channel Bandwidth: 20 MHz, Output Level: 30.0 dBm, External Loss - Main DL: 0.5 dB, UE Power: -15.4 dBm

Common: Physical Channel: Level, Call Processing: Input Level: 30.0 dBm, TX Measurement: Output Level: 30.0 dBm, RX Measurement: (Total): -58.0 dBm, Fundamental Measurement: AWGN Level: 30.0 dB, External Loss: On, Main UL: 0.5 dB, Main DL: 0.5 dB, Band Definition: AUX1: 0.0 dB, Signal: checked, Channel Coding: RMC(DL/UL CA), Antenna Combination: Common

Sequence Monitor: Idle, Connected, UE Origination, NW Origination, UE Release, NW Release, Handover

Signaling Trace: U-S Message, Description, Time at RRC, U-S Information Transfer, IDENTITY RESPONSE, 00:27:01.080 (00:00:013), U-S Capability Enquiry, 00:27:01.089 (00:00:000), U-S Capability Information, 00:27:01.243 (00:00:154), U-S Information Transfer, AUTHENTICATION REQUEST, 00:27:01.244 (00:00:010), U-S Information Transfer, AUTHENTICATION RESPONSE, 00:27:01.281 (00:00:199), U-S Information Transfer, SECURITY MODE COMMAND, 00:27:01.281 (00:00:010), U-S Information Transfer, SECURITY MODE COMPLETE, 00:27:01.380 (00:00:190), U-S Information Transfer, ACTIVATE TEST MODE, 00:27:01.409 (00:00:010), U-S Information Transfer, ACTIVATE TEST MODE COMPLETE, 00:27:01.424 (00:00:000), U-S Security Mode Command, 00:27:01.579 (00:00:159), U-S RRCConnectionReconfiguration, ATTACH ACCEPT, 00:27:01.594 (00:00:015), U-S RRCConnectionReconfigurationComplete, 00:27:01.618 (00:00:024), U-S Information Transfer, ATTACH COMPLETE, 00:27:01.638 (00:00:021)

Call 2 :Select PCC Configuration for LTE UL CA and Cable loss

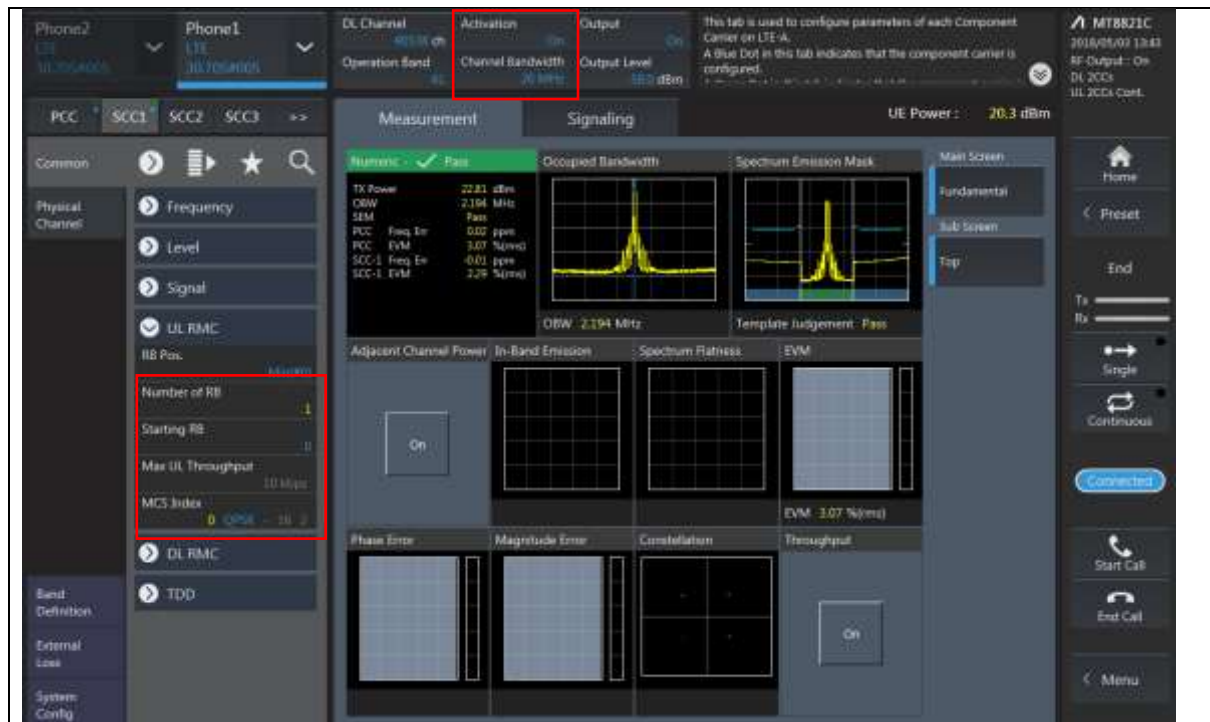
Phone2: LTE, Phone1: LTE, DL Channel: 400 MHz, TPC Pattern: 400 MHz, Input Level: 30.0 dBm, Operation Band: 40, Channel Bandwidth: 20 MHz, Output Level: 30.0 dBm, External Loss - Main DL: 0.5 dB, UE Power: 16.6 dBm

Common: Physical Channel: Level, Call Processing: AUX1: 0.0 dB, TX Measurement: Signal, RX Measurement: UL RMC, Number of RB: 100, Fundamental Measurement: Starting RB: 0, Max LA Throughput: 1256 kbps, Test Parameter: MCS Index: 5, 64QAM: Disabled, Band Definition: DL RMC: checked, TDD: checked, Uplink Downlink Configuration: 0, Special Subframe Configuration: 4

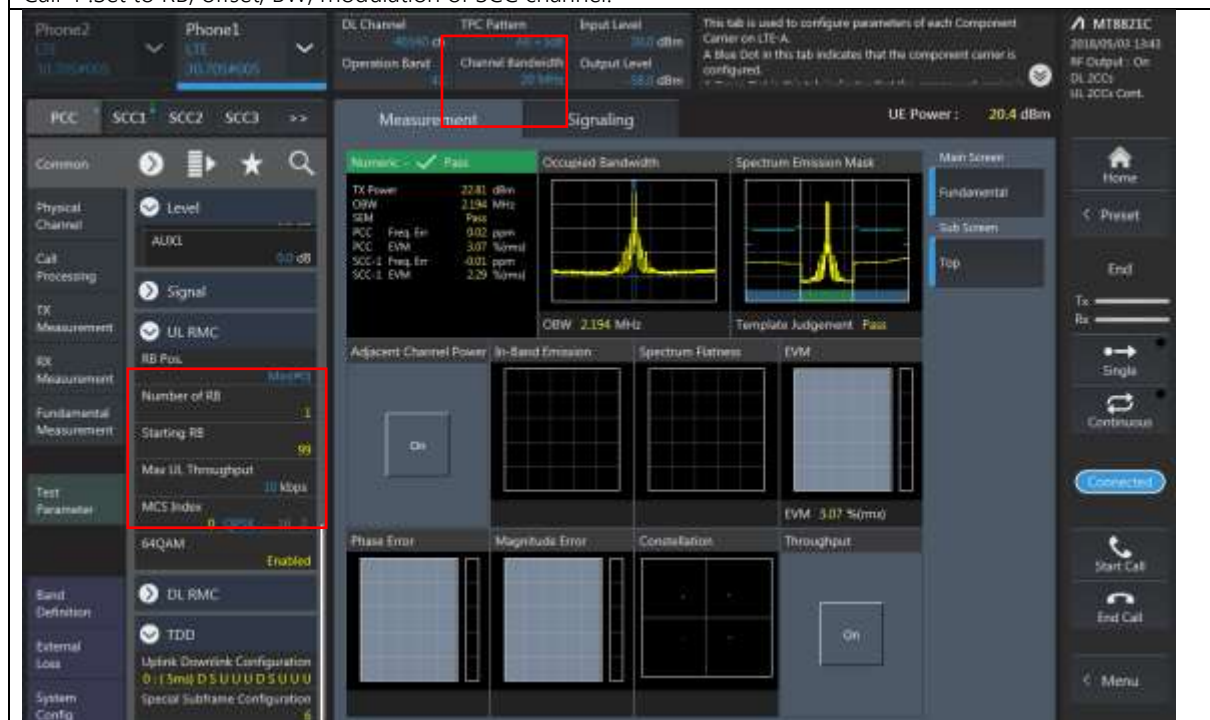
Sequence Monitor: Idle, Connected, UE Origination, NW Origination, UE Release, NW Release, Handover

Signaling Trace: U-S Message, Description, Time at RRC, L2 message, Random Access Preamble, 00:28:12.820 (00:00:001), L2 message, Random Access Response, 00:28:12.921 (00:00:001), RRCConnectionRequest, 00:28:12.937 (00:00:018), RRCConnectionSetup, 00:28:12.942 (00:00:000), RRCConnectionSetupComplete, 00:28:12.964 (00:00:022), U-S Information Transfer, AUTHENTICATION REQUEST, 00:28:13.967 (00:00:001), U-S Information Transfer, AUTHENTICATION RESPONSE, 00:28:13.084 (00:00:126), U-S Information Transfer, SECURITY MODE COMMAND, 00:28:13.104 (00:00:010), U-S Information Transfer, SECURITY MODE COMPLETE, 00:28:13.129 (00:00:015), U-S Security Mode Command, 00:28:13.139 (00:00:000), U-S RRCConnectionReconfiguration, 00:28:13.129 (00:00:118), U-S RRCConnectionReconfigurationComplete, 00:28:13.230 (00:00:001), U-S Information Transfer, ATTACH ACCEPT, 00:28:13.264 (00:00:034)

Call 3 :Select PCC Configuration for LTE TDD " Uplink Downlink Configuration" set to "0"
And then Select "connect"button.



Call 4 :Set to RB, offset, BW, modulation of SCC channel.



Call 5: Set to RB, offset, BW, modulation and Max Power conditions of PCC required test channel.

12. System Verification

12.1 Tissue Verification

The head simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity.

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
06/25/2024	19.7	750H	705	0.866	43.385	0.889	42.174	-2.59	2.87
			710	0.870	43.378	0.890	42.148	-2.25	2.92
			750	0.911	42.644	0.893	41.940	2.02	1.68
06/26/2024	20.2	750H	750	0.881	42.587	0.893	41.940	-1.34	1.54
			785	0.916	42.145	0.896	41.758	2.23	0.93
06/27/2024	20.3	750H	750	0.877	42.607	0.893	41.940	-1.79	1.59
			785	0.916	42.206	0.896	41.758	2.23	1.07
07/08/2024	19.6	835H	820	0.926	41.712	0.899	41.577	3.00	0.32
			835	0.932	41.200	0.900	41.500	3.56	-0.72
			850	0.944	40.898	0.916	41.500	3.06	-1.45
07/11/2024	19.3	835H	820	0.914	42.188	0.899	41.577	1.67	1.47
			835	0.920	42.100	0.900	41.500	2.22	1.45
			850	0.925	42.084	0.916	41.500	0.98	1.41
06/29/2024	20.1	835H	820	0.922	41.670	0.899	41.577	2.56	0.22
			835	0.930	41.480	0.900	41.500	3.33	-0.05
			850	0.954	41.321	0.916	41.500	4.15	-0.43
07/07/2024	20.1	1800H	1 710	1.323	39.989	1.348	40.144	-1.85	-0.39
			1 750	1.345	39.926	1.371	40.080	-1.90	-0.38
			1 800	1.400	39.600	1.400	40.000	0.00	-1.00
07/10/2024	19.3	1800H	1 710	1.302	39.399	1.348	40.144	-3.41	-1.86
			1 750	1.345	39.236	1.371	40.080	-1.90	-2.11
			1 800	1.400	39.000	1.400	40.000	0.00	-2.50
07/03/2024	21.6	1800H	1 710	1.317	40.765	1.348	40.144	-2.30	1.55
			1 750	1.372	40.662	1.371	40.080	0.07	1.45
			1 800	1.423	40.522	1.400	40.000	1.64	1.31
07/06/2024	20.0	1900H	1 850	1.388	39.377	1.400	40.000	-0.86	-1.56
			1 900	1.420	39.30	1.400	40.000	1.43	-1.75
			1 910	1.436	39.299	1.400	40.000	2.57	-1.75
07/09/2024	19.2	1900H	1 850	1.385	41.429	1.400	40.000	-1.07	3.57
			1 900	1.410	41.300	1.400	40.000	0.71	3.25
			1 910	1.417	41.276	1.400	40.000	1.21	3.19
06/28/2024	20.0	1900H	1 850	1.378	40.242	1.400	40.000	-1.57	0.60
			1 900	1.426	40.025	1.400	40.000	1.86	0.06
			1 910	1.435	39.978	1.400	40.000	2.50	-0.05
06/24/2024	19.2	2600H	2 500	1.916	39.976	1.855	39.140	3.29	2.14
			2 600	2.014	39.487	1.964	39.010	2.55	1.22
			2 690	2.066	38.870	2.062	38.894	0.19	-0.06
07/01/2024	21.4	3 400H~ 3 550H	3 400	2.720	38.404	2.810	38.040	-3.20	0.96
			3 500	2.891	38.491	2.913	37.930	-0.76	1.48
			3 550	2.948	38.707	2.964	37.870	-0.54	2.21
07/02/2024	21.6	3 500H~ 3 700H	3 500	2.922	38.229	2.913	37.930	0.31	0.79
			3 550	2.964	38.118	2.964	37.870	0.00	0.65
			3 650	3.060	37.907	3.066	37.760	-0.20	0.39
			3 700	3.106	37.918	3.118	37.770	-0.38	0.39

12.2 System Verification

Input Power: 50 mW

Freq.	Date	Probe	Dipole	Liquid	Amb. Temp.	Liquid Temp.	1 W Target SAR _{1g} (SPEAG)	50mW Measured SAR _{1g}	1 W Normalized SAR _{1g}	Deviation	Limit
[MHz]		(S/N)	(S/N)		[°C]	[°C]	[W/kg]	[W/kg]	[W/kg]	[%]	[%]
750	06/25/2024	7681	1014	Head	19.8	19.7	8.59	0.442	8.84	+ 2.91	± 10
750	06/26/2024	7681		Head	20.3	20.2	8.59	0.429	8.58	- 0.12	± 10
750	06/27/2024	7681		Head	20.4	20.3	8.59	0.424	8.48	- 1.28	± 10
835	07/08/2024	7370	441	Head	19.7	19.6	9.73	0.495	9.9	+ 1.75	± 10
835	07/11/2024	7370		Head	19.4	19.3	9.73	0.473	9.46	- 2.77	± 10
835	06/29/2024	7681		Head	20.2	20.1	9.73	0.529	10.58	+ 8.74	± 10
1 800	07/07/2024	7370	2d007	Head	20.2	20.1	39.0	2.02	40.4	+ 3.59	± 10
1 800	07/10/2024	7370		Head	19.4	19.3	39.0	1.86	37.2	- 4.62	± 10
1 800	07/03/2024	7681		Head	21.7	21.6	39.0	1.92	38.4	- 1.54	± 10
1 900	07/06/2024	7370	5d032	Head	20.1	20.0	40.2	2.08	41.6	+ 3.48	± 10
1 900	07/09/2024	7370		Head	19.3	19.2	40.2	1.93	38.6	- 3.98	± 10
1 900	06/28/2024	7681		Head	20.1	20.0	40.2	1.88	37.6	- 6.47	± 10
2 600	06/24/2024	7681	1015	Head	19.3	19.2	56.4	2.71	54.2	- 3.90	± 10
3 500	07/01/2024	7681	1132	Head	21.5	21.4	65.1	3.42	68.4	+ 5.07	± 10
3 500	07/02/2024	7681		Head	21.7	21.6	65.1	3.44	68.8	+ 5.68	± 10
3 700	07/02/2024	7681	1105	Head	21.7	21.6	67.1	3.59	71.8	+ 7.00	± 10

12.3 System Verification Procedure

SAR measurement was prior to assessment; the system is verified to the ± 10 % of the specifications at each frequency Band by using the system verification kit. (Graphic Plots Attached)

- Cabling the system, using the verification kit equipment.
- Generate about 50 mW Input level from the signal generator to the Dipole Antenna.
- Dipole antenna was placed below the flat phantom.
- The measured one-gram SAR at the surface of the phantom above the dipole feed-point should be within 10 % of the target reference value.
- The results are normalized to 1 W input power.

Note;

SAR Verification was performed according to the FCC KDB 865664 D01v01r04.

13. SAR Test Data Summary

13.1 Body SAR Measurement Results

UMTS Band 2 Body SAR														
Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dBm)	(dB)				(mm)	(W/kg)		(W/kg)	
1 880	9400	RMC	Main	16.4	15.57	-0.16	Rear	Active	1:1	0	0.396	1.211	0.480	-
1 880	9400	RMC	Main	24.0	23.29	-0.02	Edge 4	Inactive	1:1	0	0.872	1.178	1.027	-
1 852.4	9262	RMC	Main	24.0	23.04	0.10	Edge 4	Inactive	1:1	0	0.780	1.247	0.973	-
1 907.6	9538	RMC	Main	24.0	23.14	0.06	Edge 4	Inactive	1:1	0	1.000	1.219	1.219	B1
1 880	9400	RMC	Main	24.0	23.29	0.13	Edge 2	Inactive	1:1	0	0.03	1.178	0.035	-
1 880	9400	RMC	Main	16.4	15.57	0.01	Edge 1	Active	1:1	0	0.76	1.211	0.920	-
1 852.4	9262	RMC	Main	16.4	15.43	0.14	Edge 1	Active	1:1	0	0.691	1.250	0.864	-
1 907.6	9538	RMC	Main	16.4	15.41	0.07	Edge 1	Active	1:1	0	0.746	1.256	0.937	-
1 880	9400	RMC	Main	24.0	23.29	-0.07	Edge 4 Tilt	Inactive	1:1	0	0.697	1.178	0.821	-
1 880	9400	RMC	Main	24.0	23.29	-0.14	Edge 2 Tilt	Inactive	1:1	0	0.021	1.178	0.025	-
1 880	9400	RMC	Main	24.0	23.29	0.17	Rear	Inactive	1:1	15	0.516	1.178	0.608	-
1 880	9400	RMC	Main	24.0	23.29	0.08	Edge 1	Inactive	1:1	37	0.164	1.178	0.193	-
1 907.6	9538	RMC	Main	24.0	23.14	-0.16	Edge 4	Inactive	1:1	0	0.996	1.219	1.214	#
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

Note: * Data entry indicate Variability measurement.

UMTS Band 4 Body SAR														
Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dBm)	(dB)				(mm)	(W/kg)		(W/kg)	
1 732.4	1412	RMC	Main	15.9	15.17	-0.10	Rear	Active	1:1	0	0.589	1.183	0.697	-
1 732.4	1412	RMC	Main	24.0	23.76	0.02	Edge 4	Inactive	1:1	0	0.526	1.057	0.556	-
1 732.4	1412	RMC	Main	24.0	23.76	-0.16	Edge 2	Inactive	1:1	0	0.020	1.057	0.021	-
1 732.4	1412	RMC	Main	15.9	15.17	-0.15	Edge 1	Active	1:1	0	0.531	1.183	0.628	-
1 732.4	1412	RMC	Main	24.0	23.76	-0.04	Edge 4 Tilt	Inactive	1:1	0	0.416	1.057	0.440	-
1 732.4	1412	RMC	Main	24.0	23.76	0.01	Edge 2 Tilt	Inactive	1:1	0	0.007	1.057	0.007	-
1 732.4	1412	RMC	Main	24.0	23.76	0.19	Rear	Inactive	1:1	15	0.864	1.057	0.913	B2
1 712.4	1312	RMC	Main	24.0	23.57	0.14	Rear	Inactive	1:1	15	0.770	1.104	0.850	-
1 752.6	1513	RMC	Main	24.0	23.56	-0.06	Rear	Inactive	1:1	15	0.800	1.107	0.886	-
1 732.4	1412	RMC	Main	24.0	23.76	0.16	Edge 1	Active	1:1	37	0.227	1.057	0.240	-
1 732.4	1412	RMC	Main	24.0	23.76	0.10	Rear	Inactive	1:1	15	0.804	1.057	0.850	#
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

Note: * Data entry indicate Variability measurement.

UMTS Band 5 Body SAR

Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dBm)	(dB)				(mm)	(W/kg)		(W/kg)	
836.6	4183	RMC	Main	18.5	18.42	-0.11	Rear	Active	1:1	0	0.337	1.019	0.343	-
836.6	4183	RMC	Main	24.0	23.83	-0.04	Edge 4	Inactive	1:1	0	0.374	1.040	0.389	-
836.6	4183	RMC	Main	24.0	23.83	0.12	Edge 2	Inactive	1:1	0	0.028	1.040	0.029	-
836.6	4183	RMC	Main	18.5	18.42	0.04	Edge 1	Active	1:1	0	0.869	1.019	0.886	-
826.4	4132	RMC	Main	18.5	18.30	0.00	Edge 1	Active	1:1	0	0.914	1.047	0.957	B3
846.6	4233	RMC	Main	18.5	18.39	-0.08	Edge 1	Active	1:1	0	0.916	1.026	0.940	-
836.6	4183	RMC	Main	24.0	23.83	0.06	Edge 4Tilt	Inactive	1:1	0	0.157	1.040	0.163	-
836.6	4183	RMC	Main	24.0	23.83	-0.06	Edge 2 Tilt	Inactive	1:1	0	0.042	1.040	0.044	-
836.6	4183	RMC	Main	24.0	23.83	0.04	Rear	Inactive	1:1	15	0.389	1.040	0.405	-
836.6	4183	RMC	Main	24.0	23.83	0.02	Edge 1	Inactive	1:1	37	0.198	1.040	0.206	-
846.6	4233	RMC	Main	18.5	18.42	0.02	Edge 1	Active	1:1	0	0.915	1.019	0.932	#
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

Note: * Data entry indicate Variability measurement.

LTE FDD Band 2 Body SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)			(dB)			(dB)				(mm)	
1 900	19100	QPSK	Main	20	17.0	15.76	-0.12	Rear	Active	0	1	99	1:1	0	0.385	1.330	0.512	-
1 900	19100	QPSK	Main	20	17.0	15.81	0.16	Rear	Active	0	50	25	1:1	0	0.390	1.315	0.513	-
1 900	19100	QPSK	Main	20	17.0	15.76	-0.13	Edge 1	Active	0	1	99	1:1	0	0.929	1.330	1.236	B4
1 860	18700	QPSK	Main	20	17.0	15.73	0.00	Edge 1	Active	0	1	99	1:1	0	0.814	1.340	1.091	-
1 880	18900	QPSK	Main	20	17.0	15.65	0.05	Edge 1	Active	0	1	99	1:1	0	0.819	1.365	1.118	-
1 900	19100	QPSK	Main	20	17.0	15.81	-0.01	Edge 1	Active	0	50	25	1:1	0	0.892	1.315	1.173	-
1 860	18700	QPSK	Main	20	17.0	15.80	0.07	Edge 1	Active	0	50	25	1:1	0	0.873	1.318	1.151	-
1 880	18900	QPSK	Main	20	17.0	15.69	0.11	Edge 1	Active	0	50	25	1:1	0	0.835	1.352	1.129	-
1 900	19100	QPSK	Main	20	17.0	15.76	0.11	Edge 1	Active	0	100	0	1:1	0	0.882	1.330	1.173	-
1 900	19100	QPSK	Main	20	17.0	15.76	0.03	Edge 1	Active	0	1	99	1:1	0	0.923	1.330	1.228	#
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

Note: * Data entry indicate Variability measurement.

LTE FDD Band 4 Body SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)			(dB)	(dB)	(mm)	(W/kg)	(W/kg)				
1732.5	20175	QPSK	Main	20	16.5	15.45	-0.10	Rear	Active	0	1	49	1:1	0	0.579	1.274	0.738	-
1732.5	20175	QPSK	Main	20	16.5	15.42	0.15	Rear	Active	0	50	0	1:1	0	0.598	1.282	0.767	-
1732.5	20175	QPSK	Main	20	16.5	15.45	-0.10	Edge 1	Active	0	1	49	1:1	0	0.810	1.274	1.032	B5
1732.5	20175	QPSK	Main	20	16.5	15.42	0.05	Edge 1	Active	0	50	0	1:1	0	0.804	1.282	1.031	-
1732.5	20175	QPSK	Main	20	16.5	15.42	0.10	Edge 1	Active	0	100	0	1:1	0	0.517	1.282	0.663	-
1732.5	20175	QPSK	Main	20	16.5	15.45	0.10	Edge 1	Active	0	1	49	1:1	0	0.771	1.274	0.982	#
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

Note: * Data entry indicate Variability measurement.

LTE FDD Band 5 Body SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(Mhz)	(dBm)	(dBm)	(dB)			(dB)				(mm)	(W/kg)		(W/kg)	
836.5	20525	QPSK	Main	10	18.8	17.70	-0.10	Rear	Active	0	1	0	1:1	0	0.215	1.288	0.277	-
836.5	20525	QPSK	Main	10	18.8	17.76	0.00	Rear	Active	0	25	0	1:1	0	0.332	1.271	0.422	-
836.5	20525	QPSK	Main	10	18.8	17.70	0.00	Edge 1	Active	0	1	0	1:1	0	0.837	1.288	1.078	-
836.5	20525	QPSK	Main	10	18.8	17.76	-0.05	Edge 1	Active	0	25	0	1:1	0	0.874	1.271	1.111	B6
836.5	20525	QPSK	Main	10	18.8	17.72	0.08	Edge 1	Active	0	50	0	1:1	0	0.852	1.282	1.092	-
836.5	20525	QPSK	Main	10	18.8	17.76	0.02	Edge 1	Active	0	25	0	1:1	0	0.865	1.271	1.099	#
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

Note: * Data entry indicate Variability measurement.

LTE FDD Band 7 Body SAR

CC UL PC	Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	Mhz	Ch.			(MHz)	(dBm)	(dBm)	(dB)			(dB)	(dB)	(mm)	(W/kg)	(W/kg)				
1CC UL	2 535	21100	QPSK	Main	20	14.2	13.39	0.00	Rear	Active	0	1	0	1:1	0	0.212	1.205	0.255	-
1CC UL	2 535	21100	QPSK	Main	20	14.2	13.44	0.00	Rear	Active	0	50	0	1:1	0	0.217	1.191	0.258	-
1CC UL	2 535	21100	QPSK	Main	20	24.0	23.19	0.12	Edge 4	Inactive	0	1	0	1:1	0	0.256	1.205	0.308	-
1CC UL	2 535	21100	QPSK	Main	20	23.0	22.24	0.03	Edge 4	Inactive	1	50	0	1:1	0	0.205	1.191	0.244	-
1CC UL	2 535	21100	QPSK	Main	20	24.0	23.19	0.10	Edge 2	Inactive	0	1	0	1:1	0	0.052	1.205	0.063	-
1CC UL	2 535	21100	QPSK	Main	20	23.0	22.24	-0.04	Edge 2	Inactive	1	50	0	1:1	0	0.041	1.191	0.049	-
1CC UL	2 535	21100	QPSK	Main	20	14.2	13.39	-0.19	Edge 1	Active	0	1	0	1:1	0	0.659	1.205	0.794	B7
1CC UL	2 535	21100	QPSK	Main	20	14.2	13.44	0.04	Edge 1	Active	0	50	0	1:1	0	0.665	1.191	0.792	-
1CC UL	2 535	21100	QPSK	Main	20	24.0	23.19	-0.19	Edge 4 Tilt	Inactive	0	1	0	1:1	0	0.213	1.205	0.257	-
1CC UL	2 535	21100	QPSK	Main	20	23.0	22.24	0.13	Edge 4 Tilt	Inactive	1	50	0	1:1	0	0.171	1.191	0.204	-
1CC UL	2 535	21100	QPSK	Main	20	24.0	23.19	0.15	Edge 2 Tilt	Inactive	0	1	0	1:1	0	0.036	1.205	0.043	-
1CC UL	2 535	21100	QPSK	Main	20	23.0	22.24	-0.16	Edge 2 Tilt	Inactive	1	50	0	1:1	0	0.023	1.191	0.027	-
1CC UL	2 535	21100	QPSK	Main	20	24.0	23.19	-0.18	Rear	Inactive	0	1	0	1:1	15	0.516	1.205	0.622	-
1CC UL	2 535	21100	QPSK	Main	20	23.0	22.24	-0.15	Rear	Inactive	1	50	0	1:1	15	0.435	1.191	0.518	-
1CC UL	2 535	21100	QPSK	Main	20	24.0	23.19	0.13	Edge 1	Inactive	0	1	0	1:1	37	0.433	1.000	0.433	-
1CC UL	2 535	21100	QPSK	Main	20	23.0	22.24	0.02	Edge 1	Inactive	1	50	0	1:1	37	0.367	1.000	0.367	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram										

LTE FDD Band 12 Body SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(MHz)	(dBm)	(dBm)	(dB)			(dB)				(mm)	(W/kg)		(W/kg)	
707.5	23095	QPSK	Main	10	20.0	19.26	0.00	Rear	Active	0	1	0	1:1	0	0.215	1.186	0.255	-
707.5	23095	QPSK	Main	10	20.0	19.33	0.00	Rear	Active	0	25	0	1:1	0	0.224	1.167	0.261	-
707.5	23095	QPSK	Main	10	24.0	23.20	0.09	Edge 4	Inactive	0	1	0	1:1	0	0.109	1.202	0.131	-
707.5	23095	QPSK	Main	10	23.0	22.35	0.18	Edge 4	Inactive	1	25	0	1:1	0	0.092	1.161	0.107	-
707.5	23095	QPSK	Main	10	24.0	23.20	0.15	Edge 2	Inactive	0	1	0	1:1	0	0.010	1.202	0.012	-
707.5	23095	QPSK	Main	10	23.0	22.35	0.11	Edge 2	Inactive	1	25	0	1:1	0	0.00658	1.161	0.008	-
707.5	23095	QPSK	Main	10	20.0	19.26	0.06	Edge 1	Active	0	1	0	1:1	0	0.701	1.186	0.831	-
707.5	23095	QPSK	Main	10	20.0	19.33	0.09	Edge 1	Active	0	25	0	1:1	0	0.729	1.167	0.851	B8
707.5	23095	QPSK	Main	10	20.0	19.25	-0.16	Edge 1	Active	0	50	0	1:1	0	0.708	1.189	0.842	-
707.5	23095	QPSK	Main	10	24.0	23.20	0.12	Edge 4 Tilt	Inactive	0	1	0	1:1	0	0.120	1.202	0.144	-
707.5	23095	QPSK	Main	10	23.0	22.35	0.18	Edge 4 Tilt	Inactive	1	25	0	1:1	0	0.101	1.161	0.117	-
707.5	23095	QPSK	Main	10	24.0	23.20	0.11	Edge 2 Tilt	Inactive	0	1	0	1:1	0	0.011	1.202	0.013	-
707.5	23095	QPSK	Main	10	23.0	22.35	0.12	Edge 2 Tilt	Inactive	1	25	0	1:1	0	0.010	1.161	0.012	-
707.5	23095	QPSK	Main	10	24.0	23.20	-0.17	Rear	Inactive	0	1	0	1:1	15	0.186	1.202	0.224	-
707.5	23095	QPSK	Main	10	23.0	22.35	-0.14	Rear	Inactive	1	25	0	1:1	15	0.153	1.161	0.178	-
707.5	23095	QPSK	Main	10	24.0	23.20	0.05	Edge 1	Inactive	0	1	0	1:1	37	0.036	1.202	0.043	-
707.5	23095	QPSK	Main	10	23.0	22.35	-0.15	Edge 1	Inactive	1	25	0	1:1	37	0.029	1.161	0.034	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

LTE FDD Band 13 Body SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)			(dB)				(mm)	(W/kg)		(W/kg)	
782	23230	QPSK	Main	10	18.8	17.93	0.00	Rear	Active	0	1	0	1:1	0	0.216	1.222	0.264	
782	23230	QPSK	Main	10	18.8	18.03	0.00	Rear	Active	0	25	0	1:1	0	0.221	1.194	0.264	-
782	23230	QPSK	Main	10	24.0	23.12	0.14	Edge 4	Inactive	0	1	0	1:1	0	0.199	1.225	0.244	-
782	23230	QPSK	Main	10	23.0	22.26	-0.06	Edge 4	Inactive	1	25	0	1:1	0	0.248	1.186	0.294	-
782	23230	QPSK	Main	10	24.0	23.12	-0.12	Edge 2	Inactive	0	1	0	1:1	0	0.008	1.225	0.010	-
782	23230	QPSK	Main	10	23.0	22.26	0.17	Edge 2	Inactive	1	25	0	1:1	0	0.006	1.186	0.007	-
782	23230	QPSK	Main	10	18.8	17.93	0.09	Edge 1	Active	0	1	0	1:1	0	0.844	1.222	1.031	-
782	23230	QPSK	Main	10	18.8	18.03	0.06	Edge 1	Active	0	25	0	1:1	0	0.894	1.194	1.067	B9
782	23230	QPSK	Main	10	18.8	17.97	0.09	Edge 1	Active	0	50	0	1:1	0	0.855	1.211	1.035	-
782	23230	QPSK	Main	10	24.0	23.12	0.13	Edge 4 Tilt	Inactive	0	1	0	1:1	0	0.275	1.225	0.337	-
782	23230	QPSK	Main	10	23.0	22.26	0.18	Edge 4 Tilt	Inactive	1	25	0	1:1	0	0.221	1.186	0.262	-
782	23230	QPSK	Main	10	24.0	23.12	0.12	Edge 2 Tilt	Inactive	0	1	0	1:1	0	0.012	1.225	0.015	-
782	23230	QPSK	Main	10	23.0	22.26	0.08	Edge 2 Tilt	Inactive	1	25	0	1:1	0	0.006	1.186	0.007	-
782	23230	QPSK	Main	10	24.0	23.12	-0.04	Rear	Inactive	0	1	0	1:1	15	0.239	1.225	0.293	-
782	23230	QPSK	Main	10	23.0	22.26	-0.14	Rear	Inactive	1	25	0	1:1	15	0.212	1.186	0.251	-
782	23230	QPSK	Main	10	24.0	23.12	-0.01	Edge 1	Inactive	0	1	0	1:1	37	0.100	1.225	0.123	-
782	23230	QPSK	Main	10	23.0	22.26	0.03	Edge 1	Inactive	1	25	0	1:1	37	0.080	1.186	0.095	-
782	23230	QPSK	Main	10	18.8	18.03	-0.16	Edge 1	Active	0	25	0	1:1	0	0.870	1.194	1.039	#
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

Note: * Data entry indicate Variability measurement.

LTE FDD Band 14 Body SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)			(dB)				(mm)	(W/kg)		(W/kg)	
793	23330	QPSK	Main	10	18.5	17.65	0.00	Rear	Active	0	1	0	1:1	0	0.211	1.216	0.257	-
793	23330	QPSK	Main	10	18.5	17.61	0.00	Rear	Active	0	25	0	1:1	0	0.212	1.227	0.260	-
793	23330	QPSK	Main	10	24.0	23.15	0.16	Edge 4	Inactive	0	1	0	1:1	0	0.326	1.216	0.396	-
793	23330	QPSK	Main	10	23.0	22.26	0.09	Edge 4	Inactive	1	25	0	1:1	0	0.261	1.186	0.310	-
793	23330	QPSK	Main	10	24.0	23.15	0.14	Edge 2	Inactive	0	1	0	1:1	0	0.010	1.216	0.012	-
793	23330	QPSK	Main	10	23.0	22.26	0.10	Edge 2	Inactive	1	25	0	1:1	0	0.011	1.186	0.013	-
793	23330	QPSK	Main	10	18.5	17.65	0.03	Edge 1	Active	0	1	0	1:1	0	0.863	1.216	1.049	-
793	23330	QPSK	Main	10	18.5	17.61	0.08	Edge 1	Active	0	25	0	1:1	0	0.864	1.227	1.060	B10
793	23330	QPSK	Main	10	18.5	17.58	0.14	Edge 1	Active	0	50	0	1:1	0	0.829	1.236	1.025	-
793	23330	QPSK	Main	10	24.0	23.15	0.18	Edge 4 Tilt	Inactive	0	1	0	1:1	0	0.278	1.216	0.338	-
793	23330	QPSK	Main	10	23.0	22.26	0.18	Edge 4 Tilt	Inactive	1	25	0	1:1	0	0.227	1.186	0.269	-
793	23330	QPSK	Main	10	24.0	23.15	0.17	Edge 2 Tilt	Inactive	0	1	0	1:1	0	0.013	1.216	0.016	-
793	23330	QPSK	Main	10	23.0	22.26	0.13	Edge 2 Tilt	Inactive	1	25	0	1:1	0	0.013	1.186	0.015	-
793	23330	QPSK	Main	10	24.0	23.15	-0.07	Rear	Inactive	0	1	0	1:1	15	0.270	1.216	0.328	-
793	23330	QPSK	Main	10	23.0	22.26	0.06	Rear	Inactive	1	25	0	1:1	15	0.218	1.186	0.259	-
793	23330	QPSK	Main	10	24.0	23.15	0.04	Edge 1	Inactive	0	1	0	1:1	37	0.123	1.216	0.150	-
793	23330	QPSK	Main	10	23.0	22.26	0.01	Edge 1	Inactive	1	25	0	1:1	37	0.101	1.186	0.120	-
793	23330	QPSK	Main	10	18.5	17.61	0.12	Edge 1	Active	0	25	0	1:1	0	0.852	1.227	1.045	#
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

Note: * Data entry indicate Variability measurement.

LTE FDD Band 25 Body SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)			(dB)				(mm)	(W/kg)		(W/kg)	
1860	26140	QPSK	Main	20	16.8	16.28	0.00	Rear	Active	0	1	99	1:1	0	0.212	1.127	0.239	-
1860	26140	QPSK	Main	20	16.8	16.38	0.00	Rear	Active	0	50	49	1:1	0	0.270	1.102	0.298	-
1860	26140	QPSK	Main	20	24.0	23.14	0.11	Edge 4	Inactive	0	1	99	1:1	0	0.673	1.219	0.820	B11
1882.5	26365	QPSK	Main	20	24.0	23.07	0.15	Edge 4	Inactive	0	1	49	1:1	0	0.588	1.239	0.729	-
1905	26590	QPSK	Main	20	24.0	23.06	0.13	Edge 4	Inactive	0	1	49	1:1	0	0.585	1.242	0.727	-
1860	26140	QPSK	Main	20	23.0	22.19	0.12	Edge 4	Inactive	1	50	49	1:1	0	0.539	1.205	0.649	-
1860	26140	QPSK	Main	20	23.0	22.22	0.16	Edge 4	Inactive	1	100	0	1:1	0	0.442	1.197	0.529	-
1860	26140	QPSK	Main	20	24.0	23.14	0.10	Edge 2	Inactive	0	1	99	1:1	0	0.016	1.219	0.020	-
1860	26140	QPSK	Main	20	23.0	22.19	0.00	Edge 2	Inactive	1	50	49	1:1	0	0.013	1.205	0.016	-
1860	26140	QPSK	Main	20	16.8	16.28	0.13	Edge 1	Active	0	1	99	1:1	0	0.562	1.127	0.633	-
1860	26140	QPSK	Main	20	16.8	16.38	0.17	Edge 1	Active	0	50	49	1:1	0	0.579	1.102	0.638	-
1860	26140	QPSK	Main	20	24.0	23.14	0.15	Edge 4 Tilt	Inactive	0	1	99	1:1	0	0.400	1.219	0.488	-
1860	26140	QPSK	Main	20	23.0	22.19	0.18	Edge 4 Tilt	Inactive	1	50	49	1:1	0	0.324	1.205	0.390	-
1860	26140	QPSK	Main	20	24.0	23.14	0.00	Edge 2 Tilt	Inactive	0	1	99	1:1	0	0.013	1.219	0.016	-
1860	26140	QPSK	Main	20	23.0	22.19	0.00	Edge 2 Tilt	Inactive	1	50	49	1:1	0	0.010	1.205	0.012	-
1860	26140	QPSK	Main	20	24.0	23.14	-0.11	Rear	Inactive	0	1	99	1:1	15	0.323	1.219	0.394	-
1860	26140	QPSK	Main	20	23.0	22.19	0.10	Rear	Inactive	1	50	49	1:1	15	0.28	1.205	0.337	-
1860	26140	QPSK	Main	20	24.0	23.14	0.11	Edge 1	Inactive	0	1	99	1:1	37	0.127	1.219	0.155	-
1860	26140	QPSK	Main	20	23.0	22.19	0.16	Edge 1	Inactive	1	50	49	1:1	37	0.104	1.205	0.125	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

LTE FDD Band 26 Body SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																	
(MHz)	(dBm)	(dBm)	(dB)	(mm)	(W/kg)	(W/kg)												
831.5	26865	QPSK	Main	15	18.5	17.95	0.00	Rear	Active	0	1	0	1:1	0	0.218	1.135	0.247	-
831.5	26865	QPSK	Main	15	18.5	17.98	0.00	Rear	Active	0	36	0	1:1	0	0.232	1.127	0.261	-
831.5	26865	QPSK	Main	15	24.0	23.23	0.10	Edge 4	Inactive	0	1	0	1:1	0	0.324	1.194	0.387	-
831.5	26865	QPSK	Main	15	23.0	22.27	0.13	Edge 4	Inactive	1	36	0	1:1	0	0.274	1.183	0.324	-
831.5	26865	QPSK	Main	15	24.0	23.23	-0.04	Edge 2	Inactive	0	1	0	1:1	0	0.00953	1.194	0.011	-
831.5	26865	QPSK	Main	15	23.0	22.27	-0.17	Edge 2	Inactive	1	36	0	1:1	0	0.00923	1.183	0.011	-
831.5	26865	QPSK	Main	15	18.5	17.95	0.07	Edge 1	Active	0	1	0	1:1	0	0.845	1.135	0.959	-
831.5	26865	QPSK	Main	15	18.5	17.98	0.07	Edge 1	Active	0	36	0	1:1	0	0.902	1.127	1.017	B12
831.5	26865	QPSK	Main	15	18.5	17.94	0.11	Edge 1	Active	0	75	0	1:1	0	0.848	1.138	0.965	-
831.5	26865	QPSK	Main	15	24.0	23.23	0.14	Edge 4 Tilt	Inactive	0	1	0	1:1	0	0.303	1.194	0.362	-
831.5	26865	QPSK	Main	15	23.0	22.27	0.15	Edge 4 Tilt	Inactive	1	36	0	1:1	0	0.261	1.183	0.309	-
831.5	26865	QPSK	Main	15	24.0	23.23	0.18	Edge 2 Tilt	Inactive	0	1	0	1:1	0	0.015	1.194	0.018	-
831.5	26865	QPSK	Main	15	23.0	22.27	0.19	Edge 2 Tilt	Inactive	1	36	0	1:1	0	0.011	1.183	0.013	-
831.5	26865	QPSK	Main	15	24.0	23.23	0.12	Rear	Inactive	0	1	0	1:1	15	0.271	1.194	0.324	-
831.5	26865	QPSK	Main	15	23.0	22.27	-0.10	Rear	Inactive	1	36	0	1:1	15	0.226	1.183	0.267	-
831.5	26865	QPSK	Main	15	24.0	23.23	0.05	Edge 1	Inactive	0	1	0	1:1	37	0.185	1.194	0.221	-
831.5	26865	QPSK	Main	15	23.0	22.27	0.00	Edge 1	Inactive	1	36	0	1:1	37	0.160	1.183	0.189	-
831.5	26865	QPSK	Main	15	18.5	17.98	0.09	Edge 1	Active	0	36	0	1:1	0	0.858	1.127	0.967	#
ANSI/ IEEE C95.1 - 2005— Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

Note: * Data entry indicate Variability measurement.

LTE TDD Band 42 Body SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																	
3 500	42590	QPSK	Main	20	17.0	16.02	0.00	Rear	Active	0	1	99	1:1.58	0	0.184	1.253	0.231	-
3 500	42590	QPSK	Main	20	17.0	16.04	0.00	Rear	Active	0	50	49	1:1.58	0	0.187	1.247	0.233	-
3 500	42590	QPSK	Main	20	19.0	18.00	0.12	Edge 4	Inactive	0	1	99	1:1.58	0	0.146	1.259	0.184	-
3 500	42590	QPSK	Main	20	19.0	17.03	-0.18	Edge 4	Inactive	1	50	49	1:1.58	0	0.112	1.574	0.176	-
3 500	42590	QPSK	Main	20	19.0	18.00	0.00	Edge 2	Inactive	0	1	99	1:1.58	0	0.013	1.259	0.016	-
3 500	42590	QPSK	Main	20	19.0	17.03	0.00	Edge 2	Inactive	1	50	49	1:1.58	0	0.011	1.574	0.017	-
3 500	42590	QPSK	Main	20	17.0	16.02	0.19	Edge 1	Active	0	1	99	1:1.58	0	0.958	1.253	1.200	-
3 410	41690	QPSK	Main	20	17.0	16.01	-0.12	Edge 1	Active	0	1	99	1:1.58	0	1.15	1.256	1.444	B13
3 460	42190	QPSK	Main	20	17.0	16.01	0.17	Edge 1	Active	0	1	99	1:1.58	0	1.09	1.256	1.369	-
3 540	42990	QPSK	Main	20	17.0	16.01	0.05	Edge 1	Active	0	1	99	1:1.58	0	0.777	1.256	0.976	-
3 500	42590	QPSK	Main	20	17.0	16.04	0.19	Edge 1	Active	0	50	49	1:1.58	0	1.00	1.247	1.247	-
3 410	41690	QPSK	Main	20	17.0	16.02	0.02	Edge 1	Active	0	50	49	1:1.58	0	1.11	1.253	1.391	-
3 460	42190	QPSK	Main	20	17.0	16.03	-0.10	Edge 1	Active	0	50	49	1:1.58	0	1.08	1.250	1.350	-
3 540	42990	QPSK	Main	20	17.0	16.03	-0.15	Edge 1	Active	0	50	49	1:1.58	0	0.859	1.250	1.074	-
3 540	42990	QPSK	Main	20	17.0	16.03	-0.05	Edge 1	Active	0	100	0	1:1.58	0	0.879	1.250	1.099	-
3 500	42590	QPSK	Main	20	19.0	18.00	0.10	Edge 4 Tilt	Inactive	0	1	99	1:1.58	0	0.126	1.259	0.159	-
3 500	42590	QPSK	Main	20	19.0	17.03	0.13	Edge 4 Tilt	Inactive	1	50	49	1:1.58	0	0.099	1.574	0.156	-
3 500	42590	QPSK	Main	20	19.0	18.00	0.00	Edge 2 Tilt	Inactive	0	1	99	1:1.58	0	0.00947	1.259	0.012	-
3 500	42590	QPSK	Main	20	19.0	17.03	0.00	Edge 2 Tilt	Inactive	1	50	49	1:1.58	0	0.00575	1.574	0.009	-
3 500	42590	QPSK	Main	20	19.0	18.00	0.10	Rear	Inactive	0	1	99	1:1.58	15	0.058	1.259	0.073	-
3 500	42590	QPSK	Main	20	19.0	17.03	0.00	Rear	Inactive	1	50	49	1:1.58	15	0.048	1.574	0.076	-
3 500	42590	QPSK	Main	20	19.0	18.00	0.11	Edge 1	Inactive	0	1	99	1:1.58	37	0.116	1.259	0.146	-
3 500	42590	QPSK	Main	20	19.0	17.03	0.17	Edge 1	Inactive	1	50	49	1:1.58	37	0.093	1.574	0.146	-
3 410	41690	QPSK	Main	20	17.0	16.01	0.02	Edge 1	Active	0	1	99	1:1.58	0	0.919	1.256	1.154	#
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

Note: * Data entry indicate Variability measurement.

LTE TDD Band 48 Body SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(MHz)	(dBm)	(dBm)	(dB)			(dB)				(mm)	(W/kg)		(W/kg)	
3 603.3	55773	QPSK	Main	20	17.0	16.23	0.00	Rear	Active	0	1	99	1:1.58	0	0.0216	1.194	0.026	-
3 603.3	55773	QPSK	Main	20	17.0	16.21	0.00	Rear	Active	0	50	49	1:1.58	0	0.104	1.199	0.125	-
3 603.3	55773	QPSK	Main	20	19.0	18.30	0.14	Edge 4	Inactive	0	1	99	1:1.58	0	0.072	1.175	0.085	-
3 603.3	55773	QPSK	Main	20	18.0	17.30	0.18	Edge 4	Inactive	1	50	49	1:1.58	0	0.056	1.175	0.066	-
3 603.3	55773	QPSK	Main	20	19.0	18.30	0.00	Edge 2	Inactive	0	1	99	1:1.58	0	0.00169	1.175	0.002	-
3 603.3	55773	QPSK	Main	20	18.0	17.30	0.00	Edge 2	Inactive	1	50	49	1:1.58	0	0.00234	1.175	0.003	-
3 603.3	55773	QPSK	Main	20	17.0	16.23	0.08	Edge 1	Active	0	1	99	1:1.58	0	0.729	1.194	0.870	-
3 560.0	55340	QPSK	Main	20	17.0	15.98	-0.11	Edge 1	Active	0	1	99	1:1.58	0	0.800	1.265	1.012	-
3 646.7	56207	QPSK	Main	20	17.0	16.04	0.00	Edge 1	Active	0	1	99	1:1.58	0	0.808	1.247	1.008	-
3 690.0	56640	QPSK	Main	20	17.0	16.22	0.10	Edge 1	Active	0	1	99	1:1.58	0	0.961	1.197	1.150	-
3 603.3	55773	QPSK	Main	20	17.0	16.21	-0.16	Edge 1	Active	0	50	49	1:1.58	0	0.742	1.199	0.890	-
3 560.0	55340	QPSK	Main	20	17.0	15.99	-0.12	Edge 1	Active	0	50	49	1:1.58	0	0.818	1.262	1.032	-
3 646.7	56207	QPSK	Main	20	17.0	16.07	0.08	Edge 1	Active	0	50	49	1:1.58	0	0.803	1.239	0.995	-
3 690.0	56640	QPSK	Main	20	17.0	16.16	0.04	Edge 1	Active	0	50	49	1:1.58	0	0.960	1.213	1.164	B14
3 603.3	55773	QPSK	Main	20	17.0	16.18	0.14	Edge 1	Active	0	100	0	1:1.58	0	0.897	1.208	1.084	-
3 603.3	55773	QPSK	Main	20	19.0	18.30	0.00	Edge 4 Tilt	Inactive	0	1	99	1:1.58	0	0.057	1.175	0.067	-
3 603.3	55773	QPSK	Main	20	18.0	17.30	0.00	Edge 4 Tilt	Inactive	1	50	49	1:1.58	0	0.045	1.175	0.053	-
3 603.3	55773	QPSK	Main	20	19.0	18.30	0.00	Edge 2 Tilt	Inactive	0	1	99	1:1.58	0	0.00178	1.175	0.002	-
3 603.3	55773	QPSK	Main	20	18.0	17.30	0.00	Edge 2 Tilt	Inactive	1	50	49	1:1.58	0	0.00126	1.175	0.001	-
3 603.3	55773	QPSK	Main	20	19.0	18.30	0.00	Rear	Inactive	0	1	99	1:1.58	15	0.030	1.175	0.035	-
3 603.3	55773	QPSK	Main	20	18.0	17.30	0.00	Rear	Inactive	1	50	49	1:1.58	15	0.023	1.175	0.027	-
3 603.3	55773	QPSK	Main	20	19.0	18.30	-0.08	Edge 1	Inactive	0	1	99	1:1.58	37	0.051	1.175	0.060	-
3 603.3	55773	QPSK	Main	20	18.0	17.30	0.13	Edge 1	Inactive	1	50	49	1:1.58	37	0.042	1.175	0.049	-
3 690.0	56640	QPSK	Main	20	17.0	16.22	0.08	Edge 1	Active	0	1	99	1:1.58	0	0.966	1.197	1.156	#
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

Note: * Data entry indicate Variability measurement.

LTE FDD Band 66 Body SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(MHz)	(dBm)	(dBm)	(dB)			(dB)				(mm)	(W/kg)		(W/kg)	
1 745	132322	QPSK	Main	20	16.3	15.69	0.00	Rear	Active	0	1	49	1:1	0	0.38	1.151	0.437	-
1 745	132322	QPSK	Main	20	16.3	15.70	0.00	Rear	Active	0	50	25	1:1	0	0.385	1.148	0.442	-
1 745	132322	QPSK	Main	20	24.0	23.19	0.10	Edge 4	Inactive	0	1	49	1:1	0	0.448	1.205	0.540	-
1 745	132322	QPSK	Main	20	23.0	22.31	0.12	Edge 4	Inactive	1	50	25	1:1	0	0.361	1.172	0.423	-
1 745	132322	QPSK	Main	20	24.0	23.19	0.15	Edge 2	Inactive	0	1	49	1:1	0	0.00909	1.205	0.011	-
1 745	132322	QPSK	Main	20	23.0	22.31	0.00	Edge 2	Inactive	1	50	25	1:1	0	0.00627	1.172	0.007	-
1 745	132322	QPSK	Main	20	16.3	15.69	0.12	Edge 1	Active	0	1	49	1:1	0	0.517	1.151	0.595	-
1 745	132322	QPSK	Main	20	16.3	15.70	0.13	Edge 1	Active	0	50	25	1:1	0	0.525	1.148	0.603	-
1 745	132322	QPSK	Main	20	24.0	23.19	0.17	Edge 4 Tilt	Inactive	0	1	49	1:1	0	0.285	1.205	0.343	-
1 745	132322	QPSK	Main	20	23.0	22.31	0.15	Edge 4 Tilt	Inactive	1	50	25	1:1	0	0.229	1.172	0.268	-
1 745	132322	QPSK	Main	20	24.0	23.19	0.00	Edge 2 Tilt	Inactive	0	1	49	1:1	0	0.00726	1.205	0.009	-
1 745	132322	QPSK	Main	20	23.0	22.31	-0.12	Edge 2 Tilt	Inactive	1	50	25	1:1	0	0.00668	1.172	0.008	-
1 745	132322	QPSK	Main	20	24.0	23.19	-0.11	Rear	Inactive	0	1	49	1:1	15	0.557	1.205	0.671	B15
1 745	132322	QPSK	Main	20	23.0	22.31	0.10	Rear	Inactive	1	50	25	1:1	15	0.454	1.172	0.532	-
1 745	132322	QPSK	Main	20	24.0	23.19	0.08	Edge 1	Inactive	0	1	49	1:1	37	0.169	1.205	0.204	-
1 745	132322	QPSK	Main	20	23.0	22.31	0.12	Edge 1	Inactive	1	50	25	1:1	37	0.135	1.172	0.158	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

13.2 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Procedure.
2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06.
6. Per FCC KDB 865664 D01v01r04, variability SAR measurement were performed when the measured SAR results for a frequency Band were greater than or equal to 0.8 W/kg for 1g SAR and >2 for 10g SAR Please see Section 15 for variability analysis.
7. This device utilizes power reduction for some wireless mode and technologies, as outlined in sec. 4 The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous scenarios.

UMTS Notes:

1. The 12.2 kbps RMC mode is the primary mode per KDB 941225 D01v03r01.
2. UMTS SAR was tested under RMC 12.2 kbps with HSPA inactive per KDB publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
3. Per FCC KDB 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the channel highest output power channel was used.

LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Consideration for LTE Devices in FCC KDB 941225 D05v02r05.
2. According to FCC KDB 941225 D05v02r05:
When the reported SAR is 0.8 W/kg, testing of the 100% RB allocation and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the 1RB, 50%RB and 100%RB allocation with highest output power for that channel.
Only one channel, and as reported SAR values for 1RB allocation and 50%RB allocation were less than 1.45W/Kg only the highest power RB offset for each allocation was required.
3. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to target MPR is indicated alongside the SAR results.
4. When Power reduction is applied, MPR is 0 for some modes.
5. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator.
6. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) LTE TDD Band 41 SAR measured at the highest output power channel for each test configuration is 0.6 W/kg then testing at the other channels is not required for such test configurations.
7. TDD LTE (Power Class 3) was tested using UL-DL configuration 0 with 6 UL sub frames and 2S subframes using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Sec. 4, the duty factor using extended cyclic prefix is 0.633(cf=1.58).
8. 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 a 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.

14. Simultaneous SAR Analysis

This device is containing transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per KDB Publication 447498 D01v06 4.3.2, simultaneous transmission SAR test exclusion may be applied when the sum of 1g SAR and 10g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is $\leq 1.6\text{W/kg}$ for 1g SAR and $\leq 4\text{ W/kg}$ for 10g SAR. The different test positions in an exposure condition may be considered collectively to determine SAR exclusion according to the sum of 1g or 10g SAR.

15. Simultaneous Transmission Summation.

The highest reported SAR for each exposure condition is used for SAR summation purpose.

The highest reported SAR for each exposure condition is used for SAR summation purpose. The WLAN/BT SAR testing results were used to perform transmission simultaneous analysis from SAR Test Report[HCT-SR-2206-FC004], Module model: WL22B with FCC: ACJ9TGWL22B

Simultaneous Transmission Summation Table

Band	Configuration	Main	Bluetooth	2.4GHz Ant1	2.4GHz Ant2	2.4GHz MIMO	Main + 2.4GHz Ant1	Main + 2.4GHz Ant2	Main + 2.4GHz MIMO	Main + 2.4GHz Ant1 + BT	SPLSR
		1	2	3	4	5	1+3	1+4	1+5	1+2+3	
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	
UMTS Band 2	Rear	0.608	0.085	0.174	0.201	0.375	0.000	0.782	0.809	0.983	No
	Edge4	1.219	0.000	1.095	0.000	1.095	0.000	2.314	1.219	2.314	Yes
	Edge2	0.035	0.269	0.002	1.084	1.086	0.000	0.037	1.119	1.121	No
	Edge1	0.937	0.000	0.013	0.017	0.030	0.000	0.950	0.954	0.967	No
	Edge4 Tilt	0.821	0.000	1.317	0.007	1.324	0.000	2.138	0.828	2.145	Yes
	Edge2 Tilt	0.025	0.292	0.007	1.133	1.140	0.000	0.032	1.158	1.165	No
UMTS Band 4	Rear	0.913	0.085	0.174	0.201	0.375	0.000	1.087	1.114	1.288	No
	Edge4	0.556	0.000	1.095	0.000	1.095	0.000	1.651	0.556	1.651	Yes
	Edge2	0.021	0.269	0.002	1.084	1.086	0.000	0.023	1.105	1.107	No
	Edge1	0.628	0.000	0.013	0.017	0.030	0.000	0.641	0.645	0.658	No
	Edge4 Tilt	0.440	0.000	1.317	0.007	1.324	0.000	1.757	0.447	1.764	Yes
	Edge2 Tilt	0.007	0.292	0.007	1.133	1.140	0.000	0.014	1.140	1.147	No
UMTS Band 5	Rear	0.405	0.085	0.174	0.201	0.375	0.000	0.579	0.606	0.780	No
	Edge4	0.389	0.000	1.095	0.000	1.095	0.000	1.484	0.389	1.484	No
	Edge2	0.029	0.269	0.002	1.084	1.086	0.000	0.031	1.113	1.115	No
	Edge1	0.957	0.000	0.013	0.017	0.030	0.000	0.970	0.974	0.987	No
	Edge4 Tilt	0.163	0.000	1.317	0.007	1.324	0.000	1.480	0.170	1.487	No
	Edge2 Tilt	0.044	0.292	0.007	1.133	1.140	0.000	0.051	1.177	1.184	No
LTE Band 2	Rear	0.513	0.085	0.174	0.201	0.375	0.000	0.687	0.714	0.888	No
	Edge4	0.000	0.000	1.095	0.000	1.095	0.000	1.095	0.000	1.095	No
	Edge2	0.000	0.269	0.002	1.084	1.086	0.000	0.002	1.084	1.086	No
	Edge1	1.236	0.000	0.013	0.017	0.030	0.000	1.249	1.253	1.266	No
	Edge4 Tilt	0.000	0.000	1.317	0.007	1.324	0.000	1.317	0.007	1.324	No
	Edge2 Tilt	0.000	0.292	0.007	1.133	1.140	0.000	0.007	1.133	1.140	No
LTE Band 4	Rear	0.767	0.085	0.174	0.201	0.375	0.000	0.941	0.968	1.142	No
	Edge4	0.000	0.000	1.095	0.000	1.095	0.000	1.095	0.000	1.095	No
	Edge2	0.000	0.269	0.002	1.084	1.086	0.000	0.002	1.084	1.086	No
	Edge1	1.032	0.000	0.013	0.017	0.030	0.000	1.045	1.049	1.062	No
	Edge4 Tilt	0.000	0.000	1.317	0.007	1.324	0.000	1.317	0.007	1.324	No
	Edge2 Tilt	0.000	0.292	0.007	1.133	1.140	0.000	0.007	1.133	1.140	No
LTE Band 5	Rear	0.422	0.085	0.174	0.201	0.375	0.000	0.596	0.623	0.797	No
	Edge4	0.000	0.000	1.095	0.000	1.095	0.000	1.095	0.000	1.095	No
	Edge2	0.000	0.269	0.002	1.084	1.086	0.000	0.002	1.084	1.086	No
	Edge1	1.111	0.000	0.013	0.017	0.030	0.000	1.124	1.128	1.141	No
	Edge4 Tilt	0.000	0.000	1.317	0.007	1.324	0.000	1.317	0.007	1.324	No
	Edge2 Tilt	0.000	0.292	0.007	1.133	1.140	0.000	0.007	1.133	1.140	No
LTE Band 7	Rear	0.622	0.085	0.174	0.201	0.375	0.000	0.796	0.823	0.997	No
	Edge4	0.308	0.000	1.095	0.000	1.095	0.000	1.403	0.308	1.403	No
	Edge2	0.063	0.269	0.002	1.084	1.086	0.000	0.065	1.147	1.149	No
	Edge1	0.794	0.000	0.013	0.017	0.030	0.000	0.807	0.811	0.824	No
	Edge4 Tilt	0.257	0.000	1.317	0.007	1.324	0.000	1.574	0.264	1.581	No
	Edge2 Tilt	0.043	0.292	0.007	1.133	1.140	0.000	0.050	1.176	1.183	No
LTE Band 12	Rear	0.261	0.085	0.174	0.201	0.375	0.000	0.435	0.462	0.636	No
	Edge4	0.131	0.000	1.095	0.000	1.095	0.000	1.226	0.131	1.226	No
	Edge2	0.012	0.269	0.002	1.084	1.086	0.000	0.014	1.096	1.098	No
	Edge1	0.851	0.000	0.013	0.017	0.030	0.000	0.864	0.868	0.881	No
	Edge4 Tilt	0.144	0.000	1.317	0.007	1.324	0.000	1.461	0.151	1.468	No
	Edge2 Tilt	0.013	0.292	0.007	1.133	1.140	0.000	0.020	1.146	1.153	No

Simultaneous Transmission Summation Table

Band	Configuration	Main	Bluetooth	2.4GHz Ant1	2.4GHz Ant2	2.4GHz MIMO	Main + 2.4GHz Ant1 + RFID	Main + 2.4GHz Ant2 + RFID	Main + 2.4GHz MIMO + RFID	Main + 2.4GHz Ant1 + BT + RFID	SPLSR
		1 (W/kg)	2 (W/kg)	3 (W/kg)	4 (W/kg)	5 (W/kg)	1+3+12 (W/kg)	1+4+12 (W/kg)	1+5+12 (W/kg)	1+2+3+12 (W/kg)	
LTE Band 13	Rear	0.293	0.085	0.174	0.201	0.375	0.467	0.494	0.668	0.552	No
	Edge4	0.294	0.000	1.095	0.000	1.095	1.389	0.294	1.389	1.389	No
	Edge2	0.010	0.269	0.002	1.084	1.086	0.012	1.094	1.096	0.281	No
	Edge1	1.067	0.000	0.013	0.017	0.030	1.080	1.084	1.097	1.080	No
	Edge4 Tilt	0.337	0.000	1.317	0.007	1.324	1.654	0.344	1.661	1.654	Yes
	Edge2 Tilt	0.015	0.292	0.007	1.133	1.140	0.022	1.148	1.155	0.314	No
LTE Band 14	Rear	0.328	0.085	0.174	0.201	0.375	0.502	0.529	0.703	0.587	No
	Edge4	0.396	0.000	1.095	0.000	1.095	1.491	0.396	1.491	1.491	No
	Edge2	0.013	0.269	0.002	1.084	1.086	0.015	1.097	1.099	0.284	No
	Edge1	1.060	0.000	0.013	0.017	0.030	1.073	1.077	1.090	1.073	No
	Edge4 Tilt	0.338	0.000	1.317	0.007	1.324	1.655	0.345	1.662	1.655	Yes
	Edge2 Tilt	0.016	0.292	0.007	1.133	1.140	0.023	1.149	1.156	0.315	No
LTE Band 25	Rear	0.394	0.085	0.174	0.201	0.375	0.568	0.595	0.769	0.653	No
	Edge4	0.820	0.000	1.095	0.000	1.095	1.915	0.820	1.915	1.915	Yes
	Edge2	0.020	0.269	0.002	1.084	1.086	0.022	1.104	1.106	0.291	No
	Edge1	0.638	0.000	0.013	0.017	0.030	0.651	0.655	0.668	0.651	No
	Edge4 Tilt	0.488	0.000	1.317	0.007	1.324	1.805	0.495	1.812	1.805	Yes
	Edge2 Tilt	0.016	0.292	0.007	1.133	1.140	0.023	1.149	1.156	0.315	No
LTE Band 26	Rear	0.324	0.085	0.174	0.201	0.375	0.498	0.525	0.699	0.583	No
	Edge4	0.387	0.000	1.095	0.000	1.095	1.482	0.387	1.482	1.482	No
	Edge2	0.011	0.269	0.002	1.084	1.086	0.013	1.095	1.097	0.282	No
	Edge1	1.017	0.000	0.013	0.017	0.030	1.030	1.034	1.047	1.030	No
	Edge4 Tilt	0.362	0.000	1.317	0.007	1.324	1.679	0.369	1.686	1.679	Yes
	Edge2 Tilt	0.018	0.292	0.007	1.133	1.140	0.025	1.151	1.158	0.317	No
LTE Band 42	Rear	0.233	0.085	0.174	0.201	0.375	0.407	0.434	0.608	0.492	No
	Edge4	0.184	0.000	1.095	0.000	1.095	1.279	0.184	1.279	1.279	No
	Edge2	0.017	0.269	0.002	1.084	1.086	0.019	1.101	1.103	0.288	No
	Edge1	1.444	0.000	0.013	0.017	0.030	1.457	1.461	1.474	1.457	No
	Edge4 Tilt	0.159	0.000	1.317	0.007	1.324	1.476	0.166	1.483	1.476	No
	Edge2 Tilt	0.012	0.292	0.007	1.133	1.140	0.019	1.145	1.152	0.311	No
LTE Band 48	Rear	0.125	0.085	0.174	0.201	0.375	0.299	0.326	0.500	0.384	No
	Edge4	0.085	0.000	1.095	0.000	1.095	1.180	0.085	1.180	1.180	No
	Edge2	0.003	0.269	0.002	1.084	1.086	0.005	1.087	1.089	0.274	No
	Edge1	1.164	0.000	0.013	0.017	0.030	1.177	1.181	1.194	1.177	No
	Edge4 Tilt	0.067	0.000	1.317	0.007	1.324	1.384	0.074	1.391	1.384	No
	Edge2 Tilt	0.002	0.292	0.007	1.133	1.140	0.009	1.135	1.142	0.301	No
LTE Band 66	Rear	0.671	0.085	0.174	0.201	0.375	0.845	0.872	1.046	0.930	No
	Edge4	0.540	0.000	1.095	0.000	1.095	1.635	0.540	1.635	1.635	Yes
	Edge2	0.011	0.269	0.002	1.084	1.086	0.013	1.095	1.097	0.282	No
	Edge1	0.603	0.000	0.013	0.017	0.030	0.616	0.620	0.633	0.616	No
	Edge4 Tilt	0.343	0.000	1.317	0.007	1.324	1.660	0.350	1.667	1.660	Yes
	Edge2 Tilt	0.009	0.292	0.007	1.133	1.140	0.016	1.142	1.149	0.308	No

Simultaneous Transmission Summation Table

Band	Configuration	Main	Bluetooth	5GHz Ant1	5GHz Ant2	5GHz MIMO	Main + 5GHz Ant1	Main + 5GHz Ant2	Main + 5GHz MIMO	Main + 5GHz Ant1 + BT	SPLSR
		1	2	3	4	5	1+3	1+4	1+5	1+2+3	
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	
UMTS Band 2	Rear	0.608	0.085	0.436	0.204	0.640	1.044	0.812	1.248	1.129	No
	Edge4	1.219	0.000	0.827	0.000	0.827	2.046	1.219	2.046	2.046	Yes
	Edge2	0.035	0.269	0.000	0.971	0.971	0.035	1.006	1.006	0.304	No
	Edge1	0.937	0.000	0.056	0.021	0.077	0.993	0.958	1.014	0.993	No
	Edge4 Tilt	0.821	0.000	1.089	0.000	1.089	1.910	0.821	1.910	1.910	Yes
	Edge2 Tilt	0.025	0.292	0.002	1.195	1.197	0.027	1.220	1.222	0.319	No
UMTS Band 4	Rear	0.913	0.085	0.436	0.204	0.640	1.349	1.117	1.553	1.434	No
	Edge4	0.556	0.000	0.827	0.000	0.827	1.383	0.556	1.383	1.383	No
	Edge2	0.021	0.269	0.000	0.971	0.971	0.021	0.992	0.992	0.290	No
	Edge1	0.628	0.000	0.056	0.021	0.077	0.684	0.649	0.705	0.684	No
	Edge4 Tilt	0.440	0.000	1.089	0.000	1.089	1.529	0.440	1.529	1.529	No
	Edge2 Tilt	0.007	0.292	0.002	1.195	1.197	0.009	1.202	1.204	0.301	No
UMTS Band 5	Rear	0.405	0.085	0.436	0.204	0.640	0.841	0.609	1.045	0.926	No
	Edge4	0.389	0.000	0.827	0.000	0.827	1.216	0.389	1.216	1.216	No
	Edge2	0.029	0.269	0.000	0.971	0.971	0.029	1.000	1.000	0.298	No
	Edge1	0.957	0.000	0.056	0.021	0.077	1.013	0.978	1.034	1.013	No
	Edge4 Tilt	0.163	0.000	1.089	0.000	1.089	1.252	0.163	1.252	1.252	No
	Edge2 Tilt	0.044	0.292	0.002	1.195	1.197	0.046	1.239	1.241	0.338	No
LTE Band 2	Rear	0.513	0.085	0.436	0.204	0.640	0.949	0.717	1.153	1.034	No
	Edge4	0.000	0.000	0.827	0.000	0.827	0.827	0.000	0.827	0.827	No
	Edge2	0.000	0.269	0.000	0.971	0.971	0.000	0.971	0.971	0.269	No
	Edge1	1.236	0.000	0.056	0.021	0.077	1.292	1.257	1.313	1.292	No
	Edge4 Tilt	0.000	0.000	1.089	0.000	1.089	1.089	0.000	1.089	1.089	No
	Edge2 Tilt	0.000	0.292	0.002	1.195	1.197	0.002	1.195	1.197	0.294	No
LTE Band 4	Rear	0.767	0.085	0.436	0.204	0.640	1.203	0.971	1.407	1.288	No
	Edge4	0.000	0.000	0.827	0.000	0.827	0.827	0.000	0.827	0.827	No
	Edge2	0.000	0.269	0.000	0.971	0.971	0.000	0.971	0.971	0.269	No
	Edge1	1.032	0.000	0.056	0.021	0.077	1.088	1.053	1.109	1.088	No
	Edge4 Tilt	0.000	0.000	1.089	0.000	1.089	1.089	0.000	1.089	1.089	No
	Edge2 Tilt	0.000	0.292	0.002	1.195	1.197	0.002	1.195	1.197	0.294	No
LTE Band 5	Rear	0.422	0.085	0.436	0.204	0.640	0.858	0.626	1.062	0.943	No
	Edge4	0.000	0.000	0.827	0.000	0.827	0.827	0.000	0.827	0.827	No
	Edge2	0.000	0.269	0.000	0.971	0.971	0.000	0.971	0.971	0.269	No
	Edge1	1.111	0.000	0.056	0.021	0.077	1.167	1.132	1.188	1.167	No
	Edge4 Tilt	0.000	0.000	1.089	0.000	1.089	1.089	0.000	1.089	1.089	No
	Edge2 Tilt	0.000	0.292	0.002	1.195	1.197	0.002	1.195	1.197	0.294	No
LTE Band 7	Rear	0.622	0.085	0.436	0.204	0.640	1.058	0.826	1.262	1.143	No
	Edge4	0.308	0.000	0.827	0.000	0.827	1.135	0.308	1.135	1.135	No
	Edge2	0.063	0.269	0.000	0.971	0.971	0.063	1.034	1.034	0.332	No
	Edge1	0.794	0.000	0.056	0.021	0.077	0.850	0.815	0.871	0.850	No
	Edge4 Tilt	0.257	0.000	1.089	0.000	1.089	1.346	0.257	1.346	1.346	No
	Edge2 Tilt	0.043	0.292	0.002	1.195	1.197	0.045	1.238	1.240	0.337	No
LTE Band 12	Rear	0.261	0.085	0.436	0.204	0.640	0.697	0.465	0.901	0.782	No
	Edge4	0.131	0.000	0.827	0.000	0.827	0.958	0.131	0.958	0.958	No
	Edge2	0.012	0.269	0.000	0.971	0.971	0.012	0.983	0.983	0.281	No
	Edge1	0.851	0.000	0.056	0.021	0.077	0.907	0.872	0.928	0.907	No
	Edge4 Tilt	0.144	0.000	1.089	0.000	1.089	1.233	0.144	1.233	1.233	No
	Edge2 Tilt	0.013	0.292	0.002	1.195	1.197	0.015	1.208	1.210	0.307	No

Simultaneous Transmission Summation Table

Band	Configuration	Main	Bluetooth	5GHz Ant1	5GHz Ant2	5GHz MIMO	Main + 5GHz Ant1	Main + 5GHz Ant2	Main + 5GHz MIMO	Main + 5GHz Ant1 + BT	SPLSR
		1	2	3	4	5	1+3	1+4	1+5	1+2+3	
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	
LTE Band 13	Rear	0.293	0.085	0.436	0.204	0.640	0.729	0.497	0.933	0.814	No
	Edge4	0.294	0.000	0.827	0.000	0.827	1.121	0.294	1.121	1.121	No
	Edge2	0.010	0.269	0.000	0.971	0.971	0.010	0.981	0.981	0.279	No
	Edge1	1.067	0.000	0.056	0.021	0.077	1.123	1.088	1.144	1.123	No
	Edge4 Tilt	0.337	0.000	1.089	0.000	1.089	1.426	0.337	1.426	1.426	No
	Edge2 Tilt	0.015	0.292	0.002	1.195	1.197	0.017	1.210	1.212	0.309	No
LTE Band 14	Rear	0.328	0.085	0.436	0.204	0.640	0.764	0.532	0.968	0.849	No
	Edge4	0.396	0.000	0.827	0.000	0.827	1.223	0.396	1.223	1.223	No
	Edge2	0.013	0.269	0.000	0.971	0.971	0.013	0.984	0.984	0.282	No
	Edge1	1.060	0.000	0.056	0.021	0.077	1.116	1.081	1.137	1.116	No
	Edge4 Tilt	0.338	0.000	1.089	0.000	1.089	1.427	0.338	1.427	1.427	No
	Edge2 Tilt	0.016	0.292	0.002	1.195	1.197	0.018	1.211	1.213	0.310	No
LTE Band 25	Rear	0.394	0.085	0.436	0.204	0.640	0.830	0.598	1.034	0.915	No
	Edge4	0.820	0.000	0.827	0.000	0.827	1.647	0.820	1.647	1.647	Yes
	Edge2	0.020	0.269	0.000	0.971	0.971	0.020	0.991	0.991	0.289	No
	Edge1	0.638	0.000	0.056	0.021	0.077	0.694	0.659	0.715	0.694	No
	Edge4 Tilt	0.488	0.000	1.089	0.000	1.089	1.577	0.488	1.577	1.577	No
	Edge2 Tilt	0.016	0.292	0.002	1.195	1.197	0.018	1.211	1.213	0.310	No
LTE Band 26	Rear	0.324	0.085	0.436	0.204	0.640	0.760	0.528	0.964	0.845	No
	Edge4	0.387	0.000	0.827	0.000	0.827	1.214	0.387	1.214	1.214	No
	Edge2	0.011	0.269	0.000	0.971	0.971	0.011	0.982	0.982	0.280	No
	Edge1	1.017	0.000	0.056	0.021	0.077	1.073	1.038	1.094	1.073	No
	Edge4 Tilt	0.362	0.000	1.089	0.000	1.089	1.451	0.362	1.451	1.451	No
	Edge2 Tilt	0.018	0.292	0.002	1.195	1.197	0.020	1.213	1.215	0.312	No
LTE Band 42	Rear	0.233	0.085	0.436	0.204	0.640	0.669	0.437	0.873	0.754	No
	Edge4	0.184	0.000	0.827	0.000	0.827	1.011	0.184	1.011	1.011	No
	Edge2	0.017	0.269	0.000	0.971	0.971	0.017	0.988	0.988	0.286	No
	Edge1	1.444	0.000	0.056	0.021	0.077	1.500	1.465	1.521	1.500	No
	Edge4 Tilt	0.159	0.000	1.089	0.000	1.089	1.248	0.159	1.248	1.248	No
	Edge2 Tilt	0.012	0.292	0.002	1.195	1.197	0.014	1.207	1.209	0.306	No
LTE Band 48	Rear	0.125	0.085	0.436	0.204	0.640	0.561	0.329	0.765	0.646	No
	Edge4	0.085	0.000	0.827	0.000	0.827	0.912	0.085	0.912	0.912	No
	Edge2	0.003	0.269	0.000	0.971	0.971	0.003	0.974	0.974	0.272	No
	Edge1	1.164	0.000	0.056	0.021	0.077	1.220	1.185	1.241	1.220	No
	Edge4 Tilt	0.067	0.000	1.089	0.000	1.089	1.156	0.067	1.156	1.156	No
	Edge2 Tilt	0.002	0.292	0.002	1.195	1.197	0.004	1.197	1.199	0.296	No
LTE Band 66	Rear	0.671	0.085	0.436	0.204	0.640	1.107	0.875	1.311	1.192	No
	Edge4	0.540	0.000	0.827	0.000	0.827	1.367	0.540	1.367	1.367	No
	Edge2	0.011	0.269	0.000	0.971	0.971	0.011	0.982	0.982	0.280	No
	Edge1	0.603	0.000	0.056	0.021	0.077	0.659	0.624	0.680	0.659	No
	Edge4 Tilt	0.343	0.000	1.089	0.000	1.089	1.432	0.343	1.432	1.432	No
	Edge2 Tilt	0.009	0.292	0.002	1.195	1.197	0.011	1.204	1.206	0.303	No

Simultaneous Transmission Summation Table

Band	Configuration	Main	Bluetooth	Wi-Fi 6E Ant1	Wi-Fi 6E Ant2	Wi-Fi 6E MIMO	Main + 6E Ant1	Main + 6E Ant2	Main + 6E MIMO	Main + 6E Ant1 + BT	SPLSR
		1	2	3	4	5	1+3	1+4	1+5	1+2+3	
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	
UMTS Band 2	Rear	0.608	0.085	0.056	0.126	0.182	0.664	0.734	0.790	0.749	No
	Edge4	1.219	0.000	0.431	0.000	0.431	1.650	1.219	1.650	1.650	Yes
	Edge2	0.035	0.269	0.000	0.447	0.447	0.035	0.482	0.482	0.304	No
	Edge1	0.937	0.000	0.008	0.000	0.008	0.945	0.937	0.945	0.945	No
	Edge4 Tilt	0.821	0.000	0.627	0.000	0.627	1.448	0.821	1.448	1.448	No
	Edge2 Tilt	0.025	0.292	0.003	0.644	0.647	0.028	0.669	0.672	0.320	No
UMTS Band 4	Rear	0.913	0.085	0.056	0.126	0.182	0.969	1.039	1.095	1.054	No
	Edge4	0.556	0.000	0.431	0.000	0.431	0.987	0.556	0.987	0.987	No
	Edge2	0.021	0.269	0.000	0.447	0.447	0.021	0.468	0.468	0.290	No
	Edge1	0.628	0.000	0.008	0.000	0.008	0.636	0.628	0.636	0.636	No
	Edge4 Tilt	0.440	0.000	0.627	0.000	0.627	1.067	0.440	1.067	1.067	No
	Edge2 Tilt	0.007	0.292	0.003	0.644	0.647	0.010	0.651	0.654	0.302	No
UMTS Band 5	Rear	0.405	0.085	0.056	0.126	0.182	0.461	0.531	0.587	0.546	No
	Edge4	0.389	0.000	0.431	0.000	0.431	0.820	0.389	0.820	0.820	No
	Edge2	0.029	0.269	0.000	0.447	0.447	0.029	0.476	0.476	0.298	No
	Edge1	0.957	0.000	0.008	0.000	0.008	0.965	0.957	0.965	0.965	No
	Edge4 Tilt	0.163	0.000	0.627	0.000	0.627	0.790	0.163	0.790	0.790	No
	Edge2 Tilt	0.044	0.292	0.003	0.644	0.647	0.047	0.688	0.691	0.339	No
LTE Band 2	Rear	0.513	0.085	0.056	0.126	0.182	0.569	0.639	0.695	0.654	No
	Edge4	0.000	0.000	0.431	0.000	0.431	0.431	0.000	0.431	0.431	No
	Edge2	0.000	0.269	0.000	0.447	0.447	0.000	0.447	0.447	0.269	No
	Edge1	1.236	0.000	0.008	0.000	0.008	1.244	1.236	1.244	1.244	No
	Edge4 Tilt	0.000	0.000	0.627	0.000	0.627	0.627	0.000	0.627	0.627	No
	Edge2 Tilt	0.000	0.292	0.003	0.644	0.647	0.003	0.644	0.647	0.295	No
LTE Band 4	Rear	0.767	0.085	0.056	0.126	0.182	0.823	0.893	0.949	0.908	No
	Edge4	0.000	0.000	0.431	0.000	0.431	0.431	0.000	0.431	0.431	No
	Edge2	0.000	0.269	0.000	0.447	0.447	0.000	0.447	0.447	0.269	No
	Edge1	1.032	0.000	0.008	0.000	0.008	1.040	1.032	1.040	1.040	No
	Edge4 Tilt	0.000	0.000	0.627	0.000	0.627	0.627	0.000	0.627	0.627	No
	Edge2 Tilt	0.000	0.292	0.003	0.644	0.647	0.003	0.644	0.647	0.295	No
LTE Band 5	Rear	0.422	0.085	0.056	0.126	0.182	0.478	0.548	0.604	0.563	No
	Edge4	0.000	0.000	0.431	0.000	0.431	0.431	0.000	0.431	0.431	No
	Edge2	0.000	0.269	0.000	0.447	0.447	0.000	0.447	0.447	0.269	No
	Edge1	1.111	0.000	0.008	0.000	0.008	1.119	1.111	1.119	1.119	No
	Edge4 Tilt	0.000	0.000	0.627	0.000	0.627	0.627	0.000	0.627	0.627	No
	Edge2 Tilt	0.000	0.292	0.003	0.644	0.647	0.003	0.644	0.647	0.295	No
LTE Band 7	Rear	0.622	0.085	0.056	0.126	0.182	0.678	0.748	0.804	0.763	No
	Edge4	0.308	0.000	0.431	0.000	0.431	0.739	0.308	0.739	0.739	No
	Edge2	0.063	0.269	0.000	0.447	0.447	0.063	0.510	0.510	0.332	No
	Edge1	0.794	0.000	0.008	0.000	0.008	0.802	0.794	0.802	0.802	No
	Edge4 Tilt	0.257	0.000	0.627	0.000	0.627	0.884	0.257	0.884	0.884	No
	Edge2 Tilt	0.043	0.292	0.003	0.644	0.647	0.046	0.687	0.690	0.338	No
LTE Band 12	Rear	0.261	0.085	0.056	0.126	0.182	0.317	0.387	0.443	0.402	No
	Edge4	0.131	0.000	0.431	0.000	0.431	0.562	0.131	0.562	0.562	No
	Edge2	0.012	0.269	0.000	0.447	0.447	0.012	0.459	0.459	0.281	No
	Edge1	0.851	0.000	0.008	0.000	0.008	0.859	0.851	0.859	0.859	No
	Edge4 Tilt	0.144	0.000	0.627	0.000	0.627	0.771	0.144	0.771	0.771	No
	Edge2 Tilt	0.013	0.292	0.003	0.644	0.647	0.016	0.657	0.660	0.308	No

Simultaneous Transmission Summation Table

Band	Configuration	Main	Bluetooth	WI-FI 6E Ant1	WI-FI 6E Ant2	WI-FI 6E MIMO	Main + 6E Ant1	Main + 6E Ant2	Main + 6E MIMO	Main + 6E Ant1 + BT	SPLSR
		1	2	3	4	5	1+3	1+4	1+5	1+2+3	
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	
LTE Band 13	Rear	0.293	0.085	0.056	0.126	0.182	0.349	0.419	0.475	0.434	No
	Edge4	0.294	0.000	0.431	0.000	0.431	0.725	0.294	0.725	0.725	No
	Edge2	0.010	0.269	0.000	0.447	0.447	0.010	0.457	0.457	0.279	No
	Edge1	1.067	0.000	0.008	0.000	0.008	1.075	1.067	1.075	1.075	No
	Edge4 Tilt	0.337	0.000	0.627	0.000	0.627	0.964	0.337	0.964	0.964	No
LTE Band 14	Edge2 Tilt	0.015	0.292	0.003	0.644	0.647	0.018	0.659	0.662	0.310	No
	Rear	0.328	0.085	0.056	0.126	0.182	0.384	0.454	0.510	0.469	No
	Edge4	0.396	0.000	0.431	0.000	0.431	0.827	0.396	0.827	0.827	No
	Edge2	0.013	0.269	0.000	0.447	0.447	0.013	0.460	0.460	0.282	No
	Edge1	1.060	0.000	0.008	0.000	0.008	1.068	1.060	1.068	1.068	No
LTE Band 25	Edge4 Tilt	0.338	0.000	0.627	0.000	0.627	0.965	0.338	0.965	0.965	No
	Edge2 Tilt	0.016	0.292	0.003	0.644	0.647	0.019	0.660	0.663	0.311	No
	Rear	0.394	0.085	0.056	0.126	0.182	0.450	0.520	0.576	0.535	No
	Edge4	0.820	0.000	0.431	0.000	0.431	1.251	0.820	1.251	1.251	No
	Edge2	0.020	0.269	0.000	0.447	0.447	0.020	0.467	0.467	0.289	No
LTE Band 26	Edge1	0.638	0.000	0.008	0.000	0.008	0.646	0.638	0.646	0.646	No
	Edge4 Tilt	0.488	0.000	0.627	0.000	0.627	1.115	0.488	1.115	1.115	No
	Edge2 Tilt	0.016	0.292	0.003	0.644	0.647	0.019	0.660	0.663	0.311	No
	Rear	0.324	0.085	0.056	0.126	0.182	0.380	0.450	0.506	0.465	No
	Edge4	0.387	0.000	0.431	0.000	0.431	0.818	0.387	0.818	0.818	No
LTE Band 42	Edge2	0.011	0.269	0.000	0.447	0.447	0.011	0.458	0.458	0.280	No
	Edge1	1.017	0.000	0.008	0.000	0.008	1.025	1.017	1.025	1.025	No
	Edge4 Tilt	0.362	0.000	0.627	0.000	0.627	0.989	0.362	0.989	0.989	No
	Edge2 Tilt	0.018	0.292	0.003	0.644	0.647	0.021	0.662	0.665	0.313	No
	Rear	0.233	0.085	0.056	0.126	0.182	0.289	0.359	0.415	0.374	No
LTE Band 48	Edge4	0.184	0.000	0.431	0.000	0.431	0.615	0.184	0.615	0.615	No
	Edge2	0.017	0.269	0.000	0.447	0.447	0.017	0.464	0.464	0.286	No
	Edge1	1.444	0.000	0.008	0.000	0.008	1.452	1.444	1.452	1.452	No
	Edge4 Tilt	0.159	0.000	0.627	0.000	0.627	0.786	0.159	0.786	0.786	No
	Edge2 Tilt	0.012	0.292	0.003	0.644	0.647	0.015	0.656	0.659	0.307	No
LTE Band 66	Rear	0.125	0.085	0.056	0.126	0.182	0.181	0.251	0.307	0.266	No
	Edge4	0.085	0.000	0.431	0.000	0.431	0.516	0.085	0.516	0.516	No
	Edge2	0.003	0.269	0.000	0.447	0.447	0.003	0.450	0.450	0.272	No
	Edge1	1.164	0.000	0.008	0.000	0.008	1.172	1.164	1.172	1.172	No
	Edge4 Tilt	0.067	0.000	0.627	0.000	0.627	0.694	0.067	0.694	0.694	No
LTE Band 66	Edge2 Tilt	0.002	0.292	0.003	0.644	0.647	0.005	0.646	0.649	0.297	No
	Rear	0.671	0.085	0.056	0.126	0.182	0.727	0.797	0.853	0.812	No
	Edge4	0.540	0.000	0.431	0.000	0.431	0.971	0.540	0.971	0.971	No
	Edge2	0.011	0.269	0.000	0.447	0.447	0.011	0.458	0.458	0.280	No
	Edge1	0.603	0.000	0.008	0.000	0.008	0.611	0.603	0.611	0.611	No
LTE Band 66	Edge4 Tilt	0.343	0.000	0.627	0.000	0.627	0.970	0.343	0.970	0.970	No
	Edge2 Tilt	0.009	0.292	0.003	0.644	0.647	0.012	0.653	0.656	0.304	No

15.1 SAR to Peak Location Separation Ratio (SPLSR)

FCC KDB 447498 D01v06 General RF Exposure Guidance introduces a new formula for calculating the SAR a Peak Location Separation Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR_i = (SAR_1 + SAR_2)^{1.5} / R_i$$

Where:

SAR₁ is the highest measured or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR₂ is the highest measured or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

R_i is the separation distance between the pair of simultaneous transmitting antennas, When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of $[(X_1 - X_2)^2 + (Y_1 - Y_2)^2 + (Z_1 - Z_2)^2]$

In order for a pair of simultaneous transmitting antennas with the sum 1-g of SAR > 1.6 W/kg and with the sum 10-g of SAR > 4 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / R_i \leq 0.04 \text{ for 1g SAR and } (SAR_1 + SAR_2)^{1.5} / R_i \leq 0.1 \text{ for 10g SAR}$$

The SAR measurement results between the antennas of each WWAN/WLAN/BT mode of the DUT are spatially spaced apart to verify the SPLSR of the WWAN/WLAN/BT mode of the distribution map in Sec. 16 to verify that the simultaneous transmission evaluation is exempted.

SPLSR Evaluation

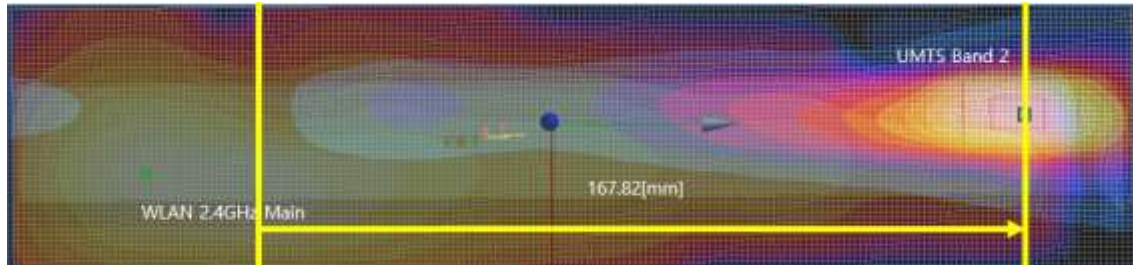
Position	Mode/Band	X(mm)	Y(mm)	Z(mm)	Reported SAR [W/kg]
Left	UMTS Band 2	-6.0	99.0	-174.0	1.219
	UMTS Band 4	-1.5	101.5	-174.0	0.556
	LTE Band 25	-12.0	99.5	-178.0	0.820
	LTE Band 66	-15.0	101.0	-178.0	0.540
	WLAN 2.4 GHz Main	12.0	-67.8	-178.0	1.095
	WLAN 5 GHz Main	12.0	-68.0	-178.0	0.827
	WLAN 6 GHz Main	11.1	-55.2	-178.0	0.431
Left Tilt	UMTS Band 2	-4.2	101.5	-174.0	0.821
	UMTS Band 4	-9.0	101.5	-174.0	0.440
	LTE Band 13	-13.5	87.5	-179.0	0.337
	LTE Band 14	-13.5	87.5	-179.0	0.338
	LTE Band 25	-12.0	95.0	-179.0	0.488
	LTE Band 26	-13.5	78.5	-179.0	0.362
	LTE Band 66	-15.0	92.0	-179.0	0.343
	WLAN 2.4 GHz Main	-2.4	-69.8	-178.0	1.317
	WLAN 5 GHz Main	0.0	-80.0	-178.0	1.089

Position	Max Mode		Sum 1g SAR	Peak SAR Separation Distance	SPLSR
				[mm]	
	1	2	1+2	1+2	
Left	UMTS Band 2	WLAN 2.4 GHz Main	2.314	167.82	0.021
	UMTS Band 4	WLAN 2.4 GHz Main	1.651	169.88	0.012
	LTE Band 25	WLAN 2.4 GHz Main	1.915	169.01	0.016
	LTE Band 66	WLAN 2.4 GHz Main	1.635	170.95	0.012
	UMTS Band 2	WLAN 5 GHz Main	2.046	167.02	0.018
	LTE Band 25	WLAN 5 GHz Main	1.647	168.221	0.013
	UMTS Band 2	WLAN 6 GHz Main	1.650	155.20	0.014

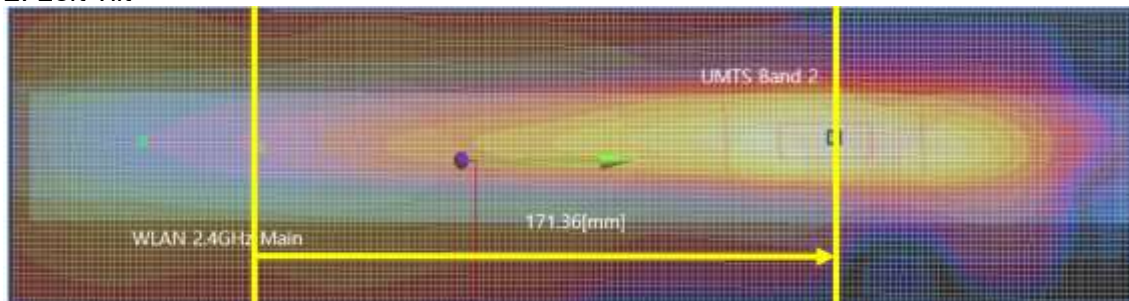
Position	Max Mode		Sum 1g SAR	Peak SAR Separation Distance	SPLSR
				[mm]	
	1	2	1+2	1+2	
Left Tilt	UMTS Band 2	WLAN 2.4 GHz Main	2.138	171.36	0.018
	UMTS Band 4	WLAN 2.4 GHz Main	1.757	171.47	0.014
	LTE Band 13	WLAN 2.4 GHz Main	1.654	157.69	0.014
	LTE Band 14	WLAN 2.4 GHz Main	1.655	157.69	0.014
	LTE Band 25	WLAN 2.4 GHz Main	1.805	165.08	0.015
	LTE Band 26	WLAN 2.4 GHz Main	1.679	148.72	0.015
	LTE Band 66	WLAN 2.4 GHz Main	1.660	162.29	0.013
	UMTS Band 2	WLAN 5 GHz Main	1.910	181.59	0.015

SPLSR Plot

1. Left



2. Left Tilt



15.2 Simultaneous Transmission Conclusion

The above numerical summed SAR Results are sufficient to determine that simultaneous transmission cases will not exceed the SAR Limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and the IEEE1528-2013.

16. SAR Measurement Variability and Uncertainty

In accordance with KDB procedure 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz, SAR additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement variability was assessed using the following procedures for each frequency band:

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg for 1g SAR or < 2.0 W/kg for 10g SAR; steps 2) through 4) do not apply.

2) When the original highest measured 1g SAR is ≥ 0.80 W/kg or 10g SAR ≥ 2.0 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg for 1g SAR or ≥ 3.625 W/kg for 10g SAR (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg for 1g SAR or ≥ 3.75 W/kg for 10g SAR and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Body SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
1 907.6	9538	UMTS Band 2	Edge 4	1.000	0.996	1.00
1 732.4	1412	UMTS Band 4	Rear	0.864	0.804	1.07
846.6	4233	UMTS Band 5	Edge 1	0.914	0.915	1.00
1 900	19100	LTE Band 2	Edge 1	0.929	0.923	1.01
1 732.5	20175	LTE Band 4	Edge 1	0.810	0.771	1.05
836.5	20525	LTE Band 5	Edge 1	0.874	0.865	1.01
782	23230	LTE Band 13	Edge 1	0.894	0.870	1.03
793	23330	LTE Band 14	Edge 1	0.864	0.852	1.01
831.5	26865	LTE Band 26	Edge 1	0.902	0.858	1.05
3 410	41690	LTE Band 42	Edge 1	1.15	0.919	1.20
3 690	56640	LTE Band 48	Edge 1	0.960	0.966	1.00

17. Measurement Uncertainty

The measured SAR was <1.5 W/Kg for 1g SAR and <3.75 W/Kg For 10g SAR for all frequency Bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE1528-2013 was not required.

18. SAR Test Equipment

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	ELI Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli	CS9spe-TX2-90	F/24/0058554/C/001	N/A	N/A	N/A
Staubli	TX2-90XL spe	F/24/0058554/A/001	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21144508	N/A	N/A	N/A
TESTO	175-H1/Thermometer	40332651310	12/26/2023	Annual	12/26/2024
Staubli	CS8Cspeag-TX60L	F10/5D1CA1/C/01	N/A	N/A	N/A
Staubli	TX60 Xlspeag	F10/5D1CA1/A/01	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21142106	N/A	N/A	N/A
TESTO	175-H1/Thermometer	44606559906	03/20/2024	Annual	03/20/2025
SPEAG	DAE4	868	09/20/2023	Annual	09/20/2024
SPEAG	DAE4	466	04/18/2024	Annual	04/18/2025
SPEAG	E-Field Probe EX3DV4	7681	11/27/2023	Annual	11/27/2024
SPEAG	E-Field Probe EX3DV4	7370	08/24/2023	Annual	08/24/2024
SPEAG	Dipole D750V3	1014	05/20/2024	Annual	05/20/2025
SPEAG	Dipole D835V2	441	04/18/2024	Annual	04/18/2025
SPEAG	Dipole D1800V2	2d007	04/15/2024	Annual	04/15/2025
SPEAG	Dipole D1900V2	5d032	01/18/2024	Annual	01/18/2025
SPEAG	Dipole D2600V2	1015	04/22/2024	Annual	04/22/2025
SPEAG	Dipole D3500V2	1132	01/23/2024	Annual	01/23/2025
SPEAG	Dipole D3700V2	1105	11/20/2023	Annual	11/20/2024
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	09/21/2023	Annual	09/21/2024
Agilent	Power Meter E4419B	MY41291386	09/21/2023	Annual	09/21/2024
Agilent	Power Meter N1911A	MY45101406	05/21/2024	Annual	05/21/2025
Agilent	Power Sensor 8481A	SG1091286	09/21/2023	Annual	09/21/2024
H.P	Power Sensor 8481A	MY41090675	09/21/2023	Annual	09/21/2024
Agilent	Wideband Power Sensor N1921A	MY55220026	07/28/2023	Annual	07/28/2024
Agilent	11636B/Power Divider	58698	01/15/2024	Annual	01/15/2025
SPEAG	DAKS 3.5	1038	01/22/2024	Annual	01/22/2025
SPEAG	Vector Reflectometer	0141013	01/11/2024	Annual	01/11/2025
H.P	Network Analyzer /8753ES	JP39240221	12/26/2023	Annual	12/26/2024
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/19/2024	Annual	03/19/2025
Keysight	PSG Vector Signal Generator	MY50350097	03/05/2024	Annual	03/05/2025
EMPOWER	RF Power Amplifier	1084	05/21/2024	Annual	05/21/2025
EMPOWER	RF Power Amplifier	1041D/C0508	05/21/2024	Annual	05/21/2025
EMPOWER	RF Power Amplifier	1011	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-15N	10453	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-30N	-	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-60N	32011	09/21/2023	Annual	09/21/2024
Agilent	Attenuator (3dB) 8693B	MY39260298	08/22/2023	Annual	08/22/2024
HP	Attenuator (3dB) 33340A	02427	08/22/2023	Annual	08/22/2024
HP	Attenuator (20dB) 8493C	09271	08/22/2023	Annual	08/22/2024
Agilent	Directional Bridge 86205A	3140A04581	04/22/2024	Annual	04/22/2025
HP	Dual Directional Coupler	16072	09/21/2023	Annual	09/21/2024
Anritsu	Radio Communication Test Station MT8000A	6261987928	01/18/2024	Annual	01/18/2025
Anritsu	Radio Communication Tester MT8820C	6200695605	03/19/2024	Annual	03/19/2025
Anritsu	Radio Communication Tester MT8821C	6201664725	01/22/2024	Annual	01/17/2025

* The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test. The brain/body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity (dielectric constant) of the brain/body-equivalent material.

19. Conclusion

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/ IEEE C95.1 - 2005.

These measurements were taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

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Appendix A. DUT Ant. Information & SETUP PHOTO

Please refer to test DUT Ant. Information & setup photo file no. as follows:

Report No.
HCT-SR-2407-FC008-P