



SAR TEST REPORT

Product Name: Mobile Phone

Model Name: Bolt 20

FCC ID: 2ADR3UB202

Issued For : UNNECTO HOLDING LIMITED

13/F HARBOUR COMMERCIAL BUILDING 122-124
CONNAUGHT ROAD CENTRAL SHEUNG WAN HK

Issued By : Shenzhen LGT Test Service Co., Ltd.

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Report Number: LGT24I079HA01

Sample Received Date: Sept. 06, 2024

Date of Test: Sept. 13, 2024 ~ Oct. 22, 2024

Date of Issue: Oct. 26, 2024

Head:0.975 W/kg

Max. SAR (1g):

Body:0.907 W/kg

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Revision History

Rev.	Issue Date	Contents
00	Oct. 26, 2024	Initial Issue



TEST REPORT CERTIFICATION

Applicant UNNECTO HOLDING LIMITED
Address 13/F HARBOUR COMMERCIAL BUILDING 122-124
CONNAUGHT ROAD CENTRAL SHEUNG WAN HK
Manufacture COOSEA GROUP (HK) COMPANY LIMITED
Address UNIT 503 5/F SILVERCORD TOWER 2 30 CANTON
ROAD TSIMSHATSUI KL HONG KONG
Product Name Mobile Phone
Trademark unnecto TM
Model Name Bolt 20
Sample number LGT2409084-3

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
ANSI/IEEE Std. C95.1-1992 FCC 47 CFR Part 2 (2.1093) IEEE 1528: 2013	PASS

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1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	Mobile Phone
Trademark	unnecto™
Model Name	Bolt 20
Series Model	N/A
Model Difference	N/A
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	KC57Z_01
Software Version	UB202.14_MP.V01.00
Frequency Range	GSM 850: 824 ~ 849 MHz PCS 1900: 1850 ~ 1910 MHz WCDMA Band II: 1850 ~ 1910 MHz WCDMA Band IV: 1710 ~ 1755 MHz WCDMA Band V: 824 ~ 849 MHz LTE Band 2: 1850 ~ 1910 MHz LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz LTE Band 7: 2500 ~ 2570 MHz LTE Band 12: 699 ~ 716 MHz LTE Band 13: 777 ~ 787 MHz LTE Band 17: 704 ~ 716 MHz LTE Band 25: 1850 ~ 1915 MHz LTE Band 26: 814 ~ 824 MHz / 824 ~ 849 MHz LTE Band 38: 2570 ~ 2620 MHz LTE Band 41: 2535 ~ 2655 MHz LTE Band 66: 1710 ~ 1780 MHz LTE Band 71: 663 ~ 698 MHz WLAN 802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5250 ~ 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5470 ~ 5725 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 ~ 5850 MHz Bluetooth: 2402 ~ 2480 MHz NFC: 13.56 MHz



Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Head:0mm Body:10mm (LTE B2/25:15mm) Hotspot:10mm	Mode	Head (W/kg)	Body Worn (W/kg)	Hotspot (W/kg)
	GSM 850	0.306	0.336	0.282
	PCS 1900	0.064	0.829	0.754
	WCDMA Band II	0.074	0.907	0.726
	WCDMA Band IV	0.140	0.584	0.390
	WCDMA Band V	0.265	0.270	0.210
	LTE Band 2	0.067	0.731	0.701
	LTE Band 4	0.378	0.558	0.392
	LTE Band 5	0.333	0.366	0.295
	LTE Band 7	0.382	0.545	0.470
	LTE Band 12	0.220	0.450	0.363
	LTE Band 13	0.151	0.170	0.136
	LTE Band 17	0.250	0.540	0.434
	LTE Band 25	0.049	0.798	0.724
	LTE Band 26	0.515	0.371	0.297
	LTE Band 38	0.975	0.429	0.346
	LTE Band 41	0.790	0.450	0.364
	LTE Band 66	0.068	0.616	0.467
	LTE Band 71	0.291	0.443	0.355
	2.4G WLAN	0.612	0.032	0.297
	5.2G WLAN	0.575	0.123	0.292
	5.3G WLAN	0.525	0.101	0.237
	5.6G WLAN	0.366	0.134	0.312
	5.8G WLAN	0.708	0.091	0.211
	Bluetooth ^{Note}	0.059	0.059	0.059
	NFC ^{Note}	0.0000001	0.0000001	0.0000001
1-g Sum SAR		1.587	1.041	1.066
Battery	Rated Voltage: 3.87V Capacity: 4900mAh			
Description test modes	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested			
Modulation:	GSM: GMSK for GSM/GPRS; GMSK and 8PSK for EDGE WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM 2.4G WLAN: 802.11b(DSSS): CCK, DQPSK, DBPSK 802.11g(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK, QPSK,16-QAM,64-QAM 5G WLAN: 802.11a(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11ac (OFDM): BPSK, QPSK,16-QAM,64-QAM,256-QAM Bluetooth: GFSK + π /4DQPSK+8DPSK BLE: GFSK			
Antenna Specification	GSM/WCDMA/LTE: FPC Antenna Bluetooth: FPC Antenna WLAN: FPC Antenna			



Operating Mode	Maximum continuous output
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot trans mitting at the same time
Hotspot Mode	Support
DTM Mode	Not Support
Note 1: The BT value was Estimated.	



1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (°C)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	FCC Registration No.: 746540
	A2LA Certificate No.: 6727.01
	IC Registration No.: CN0136



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.4 8.0 20.0

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.08 1.6 4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE
GENERAL POPULATION/UNCONTROLLED EXPOSURE
PARTIAL BODY LIMIT
1.6 W/kg



3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

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

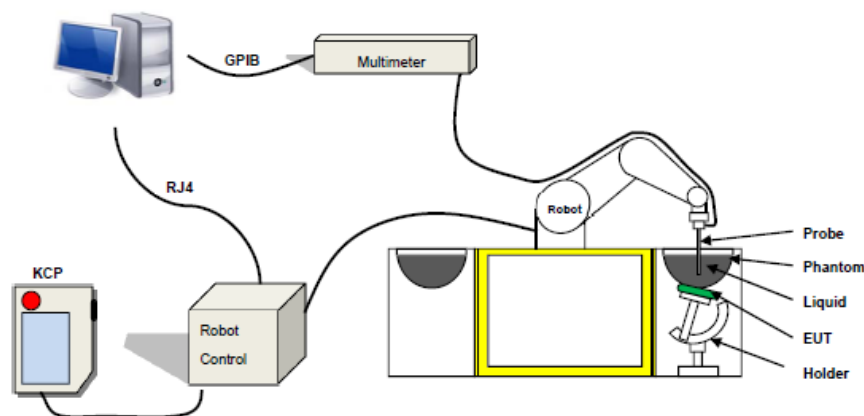
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue;

ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 1g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 04/22 EPGO364 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 600 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Probe

3.2.2 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

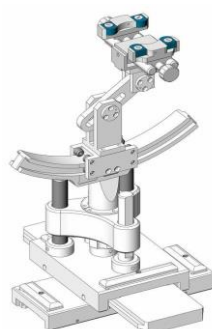


Figure-SN 06/22 SAM 148



Figure-SN 06/22 ELLI 51

3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values

The uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max _ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 1 g averaging, the maximum weighting coefficient for SAR is 0,5.

IEEE SCC-34/SC-2 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been incorporated in the following table.

Frequency	ϵ_r	σ 10g S/m
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1800 to 2000	40.0	1.40
2100	39.8	1.49
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27



LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2024-09-19	22.1	55	750	21.8	Permittivity	41.90	42.92	2.43	±5
					Conductivity	0.89	0.91	2.25	±5
2024-09-22	21.7	42	750	21.4	Permittivity	41.90	42.03	0.31	±5
					Conductivity	0.89	0.87	-2.25	±5
2024-09-16	23.6	53	835	23.3	Permittivity	41.50	41.03	-1.13	±5
					Conductivity	0.90	0.89	-1.11	±5
2024-09-17	20.9	45	1800	20.6	Permittivity	40.00	40.56	1.40	±5
					Conductivity	1.40	1.41	0.71	±5
2024-09-21	23.3	43	1900	23	Permittivity	40.00	40.08	0.20	±5
					Conductivity	1.40	1.43	2.14	±5
2024-10-22	20.3	43	1900	20	Permittivity	40.00	40.64	1.60	±5
					Conductivity	1.40	1.39	-0.71	±5
2024-09-13	21.2	46	2450	20.3	Permittivity	39.20	39.66	1.17	±5
					Conductivity	1.80	1.86	3.33	±5
2024-09-20	21.7	49	2600	21.5	Permittivity	39.00	39.44	1.13	±5
					Conductivity	1.96	2.00	2.04	±5
2024-09-23	21.3	53	2600	20.9	Permittivity	39.00	40.47	3.77	±5
					Conductivity	1.96	1.97	0.51	±5
2024-09-14	20.5	58	5200	20.2	Permittivity	36.00	36.63	1.75	±5
					Conductivity	4.66	4.62	-0.86	±5
2024-09-14	20.6	58	5400	20.3	Permittivity	35.80	36.50	1.96	±5
					Conductivity	4.86	4.87	0.21	±5
2024-09-15	23.6	44	5600	23.4	Permittivity	35.55	35.98	1.21	±5
					Conductivity	5.07	5.08	0.30	±5
2024-09-15	23.6	44	5800	23.3	Permittivity	35.30	35.80	1.42	±5
					Conductivity	5.27	5.19	-1.52	±5

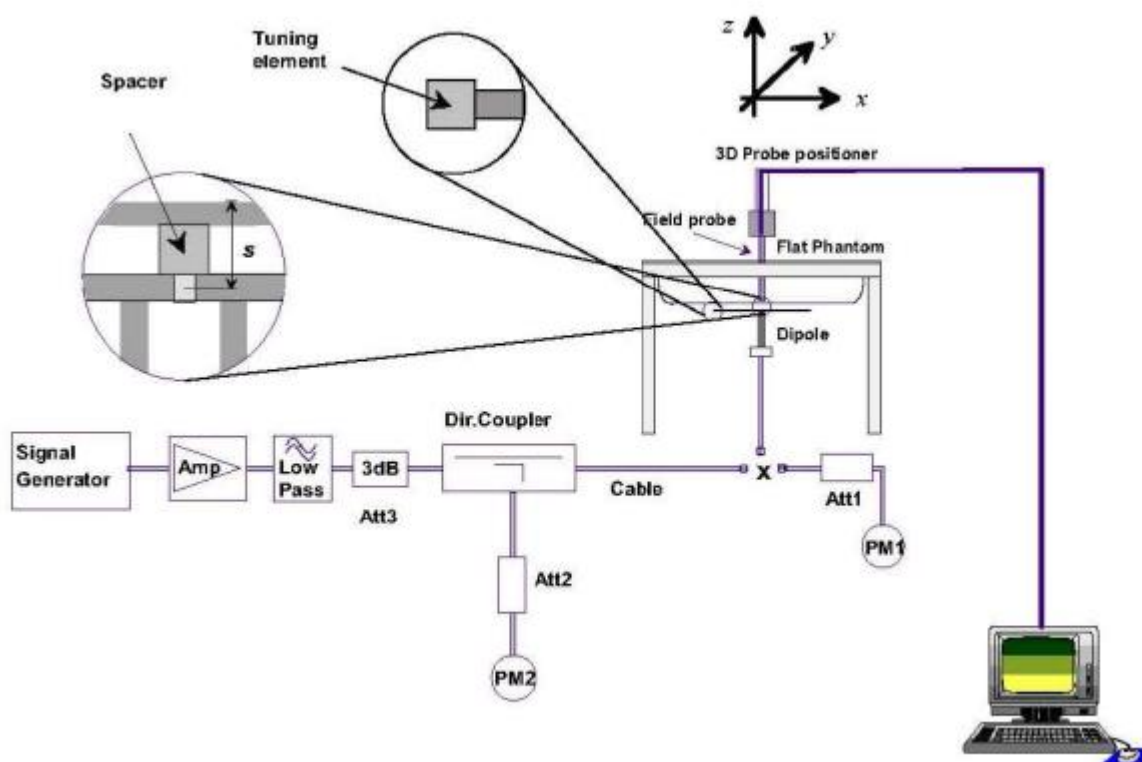


5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.





5.2 Validation Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of $\pm 10\%$.

Date	Freq.	Power	Power drift	Tested Value	Normalized SAR	Target SAR	Tolerance
	(MHz)	(mW)	(%)	(W/Kg)	(W/kg)	1g(W/kg)	(%)
2024-09-19	750	100	0.840	8.40	8.27	1.57	10
2024-09-22	750	100	0.813	8.13	8.27	-1.69	10
2024-09-16	835	100	0.992	9.92	9.75	1.74	10
2024-09-17	1800	100	3.911	39.11	39.06	0.13	10
2024-09-21	1900	100	4.101	41.01	40.85	0.39	10
2024-10-22	1900	100	4.069	40.69	40.85	-0.39	10
2024-09-13	2450	100	5.384	53.84	54.28	-0.81	10
2024-09-20	2600	100	5.652	56.52	56.58	-0.11	10
2024-09-23	2600	100	5.641	56.41	56.58	-0.30	10
2024-09-14	5200	100	8.088	80.88	80.97	-0.11	10
2024-09-14	5400	100	8.483	84.83	84.61	0.26	10
2024-09-15	5600	100	8.137	81.37	80.96	0.51	10
2024-09-15	5800	100	8.174	81.74	81.67	0.09	10

Note:

1. The tolerance limit of System validation $\pm 10\%$.
2. The dipole input power (forward power) was 100 mW.
3. The results are normalized to 1 W input power.



6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

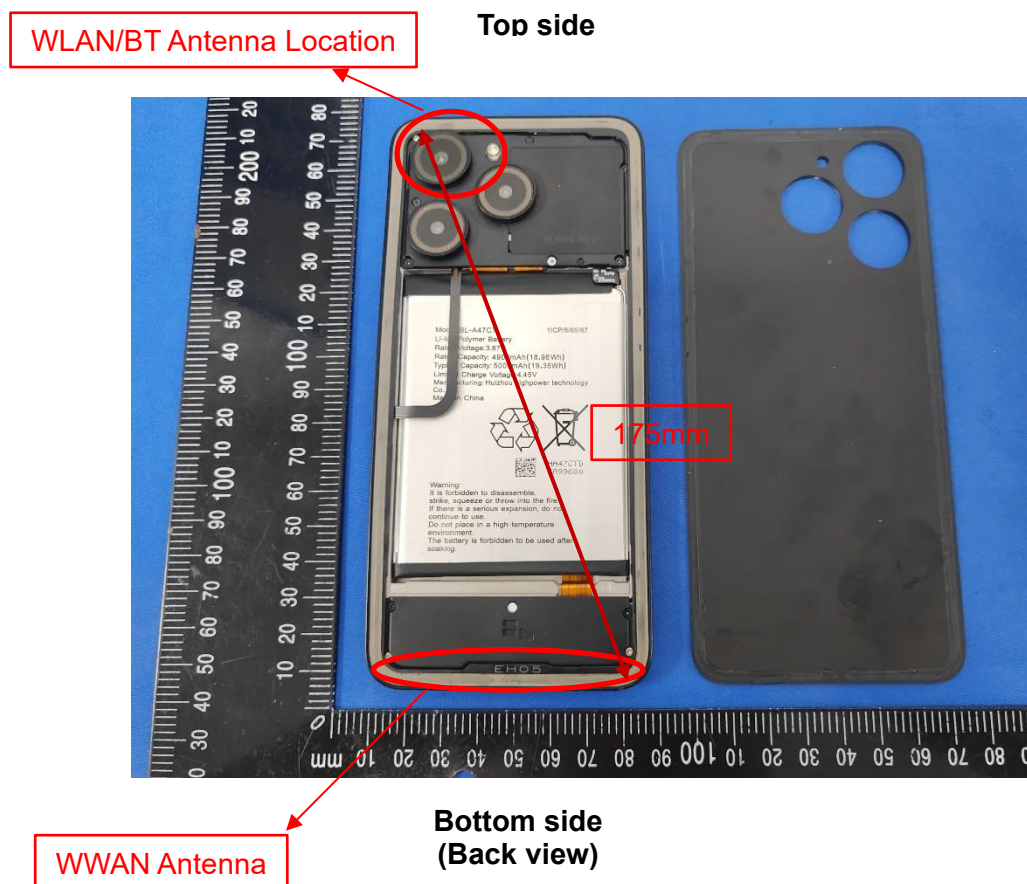
➤ Area Scan& Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.

When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7. EUT Antenna Location Sketch

It is a Mobile Phone, support GSM/WCDMA/LTE/WLAN/BT mode.



Antenna Separation Distance(mm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	5	5	60	5	5	158
WWAN	5	5	5	5	150	5

Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



7.1 SAR test exclusion consider table

The WWAN/WLAN/BT SAR evaluation of Maximum power (dBm) summing tolerance.

Exposure Position	Wireless Interface	GSM850	PCS1900	WCDMA II	WCDMA IV	WCDMA V
	Calculated Frequency (MHz)	848.8	1850.2	1880	1740	846.6
	Maximum Turn-up power (dBm)	34.5	31	23.8	24	24.5
	Maximum rated power(mW)	2818.38	1258.93	239.88	251.19	281.84
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	11.03	10.94	11.37	16.30
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	11.03	10.94	11.37	16.30
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	11.03	10.94	11.37	16.30
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	11.03	10.94	11.37	16.30
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	150	150	150	150	150
	exclusion threshold(mW)	728.68	1110.28	1109.40	1113.71	727.42
	Testing required?	YES	YES	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	11.03	10.94	11.37	16.30
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12
	Calculated Frequency (MHz)	1900	1720	829	2560	704
	Maximum Turn-up power (dBm)	25.5	24.5	24	24.5	26
	Maximum rated power(mW)	354.81	281.84	251.19	281.84	398.11
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.47	9.38	17.88
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.47	9.38	17.88
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.47	9.38	17.88
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.47	9.38	17.88
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	150	150	150	150	150
	exclusion threshold(mW)	1108.82	1114.37	717.41	1093.75	648.11
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.47	9.38	17.88
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 13	LTE Band 17	LTE Band 25	LTE Band 26	LTE Band 38
	Calculated Frequency (MHz)	782	711	1905	831.5	2580
	Maximum Turn-up power (dBm)	25	26	25.5	24.5	25
	Maximum rated power(mW)	316.23	398.11	354.81	281.84	316.23
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.79	10.87	16.45	9.34
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.79	10.87	16.45	9.34
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.79	10.87	16.45	9.34
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.79	10.87	16.45	9.34
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	150	150	150	150	150
	exclusion threshold(mW)	690.96	651.89	1108.68	718.83	1093.39
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.79	10.87	16.45	9.34
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 41	LTE Band 66	LTE Band 71	BT	2.4G WLAN
	Calculated Frequency (MHz)	2645	1745	673	2441	2437
	Maximum Turn-up power (dBm)	24.5	25	25.5	1.5	15.5
	Maximum rated power(mW)	281.84	316.23	354.81	1.41	35.48
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.22	11.36	18.28	9.60	9.61
	Testing required?	YES	YES	YES	NO	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.22	11.36	18.28	9.60	9.61
	Testing required?	YES	YES	YES	NO	YES
Left Edge	Separation distance (mm)	5	5	5	60	60
	exclusion threshold(mW)	9.22	11.36	18.28	196.01	196.09
	Testing required?	YES	YES	YES	NO	NO
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.22	11.36	18.28	9.60	9.61
	Testing required?	YES	YES	YES	NO	YES
Top Edge	Separation distance (mm)	150	150	150	5	5
	exclusion threshold(mW)	1092.23	1113.55	631.51	9.60	9.61
	Testing required?	NO	NO	NO	NO	YES
Bottom Edge	Separation distance (mm)	5	5	5	158	158
	exclusion threshold(mW)	9.22	11.36	18.28	1176.01	1176.09
	Testing required?	YES	YES	YES	NO	NO



Exposure Position	Wireless Interface	5.2G WLAN	5.3G WLAN	5.6G WLAN	5.8G WLAN
	Calculated Frequency (MHz)	5210	5260	5700	5825
	Maximum Turn-up power (dBm)	13.5	14.5	13	12.5
	Maximum rated power(mW)	22.39	28.18	19.95	17.78
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.57	6.54	6.28	6.22
	Testing required?	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.57	6.54	6.28	6.22
	Testing required?	YES	YES	YES	YES
Left Edge	Separation distance (mm)	60	60	60	60
	exclusion threshold(mW)	165.72	165.40	162.83	162.15
	Testing required?	NO	NO	NO	NO
Right Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.57	6.54	6.28	6.22
	Testing required?	YES	YES	YES	YES
Top Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.57	6.54	6.28	6.22
	Testing required?	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	158	158	158	158
	exclusion threshold(mW)	1145.72	1145.40	1142.83	1142.15
	Testing required?	NO	NO	NO	NO

Note:

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. per KDB 447498 D01, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <25mm, 25mm is user to determine SAR exclusion threshold
4. per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance $\leq 50\text{mm}$ are determined by:

$$\frac{[(\text{max.power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance,}]}{}$$



mm)]*[$\sqrt{f(\text{GHz})}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR ,f(GHz) is the RF channel transmit frequency in GHz. Power and distance are rounded to the nearest mW and mm before calculation.

The result is rounded to one decimal place for comparison

For <50mm distance, we just calculate mW of the exclusion threshold value(3.0)to do compare

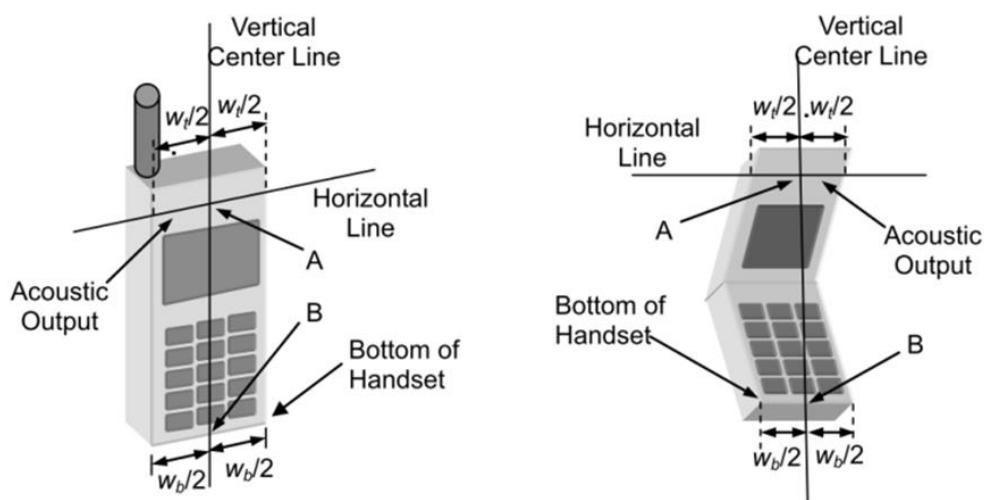
5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following
 - a)[threshold at 50mm in step 1]+(test separation distance -50mm)*(f (MHz)/150)]mW, at 100 MHz to 1500 MHz
 - b) [threshold at 50mm in step1]+(test separation distance -50mm) *10]mW at > 1500MHz and $\leq 6\text{GHz}$
6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8.for each frequency band ,testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode ,thus the SAR can be excluded.

8. EUT Test Position

This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

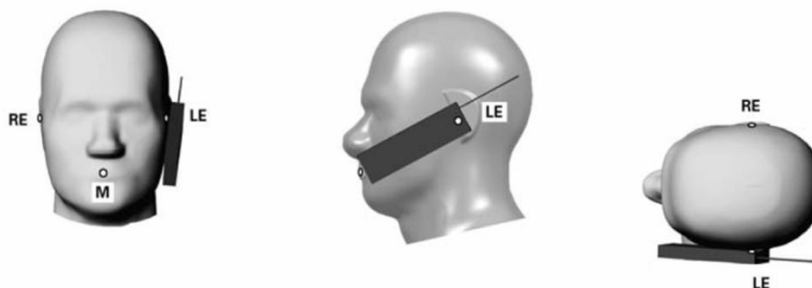
8.1 Define Two Imaginary Lines on the Handset

- (1) The vertical centerline passes through two points on the front side of the handset the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the handset.
- (2) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Cheek Position

- 1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- 2) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost





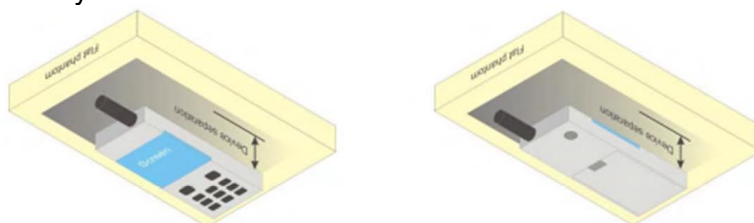
Title Position

- (1) To position the device in the “cheek” position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.



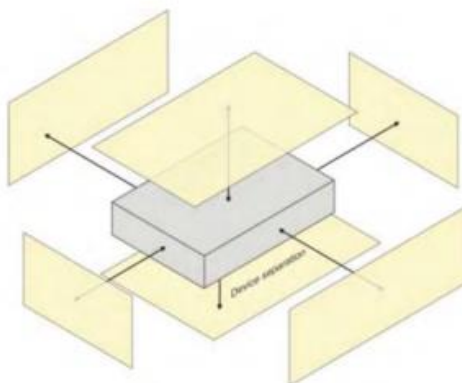
Body-worn Position Conditions:

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.



8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm from that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).





9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Uncertainty Component	Tol (+/- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+/-%)	10g Ui (+/-%)	vi
Measurement System								
Probe calibration	5.8	N	1	1	1	5.8	5.8	∞
Axial Isotropy	3.5	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	1.43	1.43	∞
Hemispherical Isotropy	5.9	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	2.41	2.41	∞
Boundary effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
System detection limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	1.4	R	$\sqrt{3}$	1	1	1.81	1.81	∞
RF ambient conditions-Noise	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, Interpolation and Integration Algorithms for Max, SAR	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Test sample Related								
Test sample positioning	2.6	N	1	1	1	2.60	2.60	11
Device holder uncertainty	3	N	1	1	1	3.00	3.00	7
Output Power Variation - SAR Drift Measurement	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters								
Phantom uncertainty (shape and thickness uncertainty)	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	2	N	1	1	0.84	2.00	1.68	∞
Liquid Conductivity - Measurement Uncertainty)	4	N	1	0.78	0.71	3.12	2.84	5
Liquid Permittivity - Measurement Uncertainty	5	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid Permittivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty		RSS				10.47	10.34	
Expanded Uncertainty (95% Confidence interval)		K				20.95	20.69	



9.2 System validation Uncertainty

Uncertainty Component	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System								
Probe calibration	5.8	N	1	1	1	5.8	5.8	∞
Axial Isotropy	3.5	R	$\sqrt{3}$	1	1	2.02	2.02	∞
Hemispherical Isotropy	5.9	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	0.71	0.71	∞
System detection limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	0	N	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions- reflections	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, Interpolation and Integration Algorithms for Max, SAR	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Dipole								
Deviation of Experimental Source from Numerical Source	5	N	1	1	1	5.00	5.00	∞
Input Power and SAR Drift Measurement	0.5	R	$\sqrt{3}$	1	1	0.29	0.29	∞
Dipole Axis to Liquid Distance	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and Tissue Parameters								
Phantom uncertainty (shape and thickness uncertainty)	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	2	N	1	1	0.84	2.00	1.68	∞
Liquid Conductivity - Measurement Uncertainty)	4	N	1	0.78	0.71	3.12	2.84	5
Liquid Permittivity - Measurement Uncertainty	5	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid Permittivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty		RSS				10.16	10.03	
Expanded Uncertainty (95% Confidence interval)		K				20.32	20.06	



10. Conducted Power Measurement

10.1 Test Result

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	33.72	33.79	34.15	30.46	30.59	30.70
GPRS (GMSK, 1-Slot)	33.69	33.74	34.14	30.45	30.58	30.69
GPRS (GMSK, 2-Slot)	31.70	31.75	32.05	28.68	28.54	28.40
GPRS (GMSK, 3-Slot)	29.76	29.84	30.14	27.04	26.96	26.85
GPRS (GMSK, 4-Slot)	27.79	27.85	28.18	24.98	24.95	24.83
EGPRS (8PSK, 1-Slot)	26.88	26.63	26.81	27.08	26.99	27.24
EGPRS (8PSK, 2-Slot)	26.35	25.75	26.25	25.39	24.99	25.47
EGPRS (8PSK, 3-Slot)	23.52	23.29	22.91	23.48	23.43	23.12
EGPRS (8PSK, 4-Slot)	21.54	20.94	20.76	21.37	21.50	20.77
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	24.69	24.76	25.12	21.43	21.56	21.67
GPRS (GMSK, 1-Slot)	24.66	24.71	25.11	21.42	21.55	21.66
GPRS (GMSK, 2-Slot)	25.68	25.73	26.03	22.66	22.52	22.38
GPRS (GMSK, 3-Slot)	25.50	25.58	25.88	22.78	22.70	22.59
GPRS (GMSK, 4-Slot)	24.78	24.84	25.17	21.97	21.94	21.82
EGPRS (8PSK, 1-Slot)	17.85	17.60	17.78	18.05	17.96	18.21
EGPRS (8PSK, 2-Slot)	20.33	19.73	20.23	19.37	18.97	19.45
EGPRS (8PSK, 3-Slot)	19.26	19.03	18.65	19.22	19.17	18.86
EGPRS (8PSK, 4-Slot)	18.53	17.93	17.75	18.36	18.49	17.76
Remark: 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum Burst - averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB						



Hotspot mode:

Burst Average Power (dBm)			
Band	PCS 1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	30.44	30.61	30.69
GPRS (GMSK, 1-Slot)	27.89	27.78	27.63
GPRS (GMSK, 2-Slot)	27.12	27.04	26.90
GPRS (GMSK, 3-Slot)	25.04	25.02	24.90
GPRS (GMSK, 4-Slot)	23.91	23.87	23.79
EGPRS (8PSK, 1-Slot)	24.59	24.17	24.25
EGPRS (8PSK, 2-Slot)	22.99	23.20	23.10
EGPRS (8PSK, 3-Slot)	20.87	20.19	20.11
EGPRS (8PSK, 4-Slot)	19.11	18.07	18.23
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link			

Frame- Average Power(dBm)			
Band	PCS 1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	21.41	21.58	21.66
GPRS (GMSK, 1-Slot)	18.86	18.75	18.60
GPRS (GMSK, 2-Slot)	21.10	21.02	20.88
GPRS (GMSK, 3-Slot)	20.78	20.76	20.64
GPRS (GMSK, 4-Slot)	20.90	20.86	20.78
EGPRS (8PSK, 1-Slot)	15.56	15.14	15.22
EGPRS (8PSK, 2-Slot)	16.97	17.18	17.08
EGPRS (8PSK, 3-Slot)	16.61	15.93	15.85
EGPRS (8PSK, 4-Slot)	16.10	15.06	15.22
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link			



WCDMA

Band	WCDMA Band 2			WCDMA Band 4			WCDMA Band 5		
Channel	9262	9400	9538	1312	1450	1513	4132	4182	4233
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740	1752.4	826.4	836.4	846.6
RMC 12.2Kbps	23.49	23.5	23.46	23.84	23.96	23.83	24.11	24.22	24.39
HSDPA Subtest-1	23.77	23.25	22.86	24.36	24.21	23.67	24.29	23.99	23.99
HSDPA Subtest-2	23.29	22.85	22.5	23.84	23.8	23.43	24.05	23.72	23.86
HSDPA Subtest-3	22.99	22.68	22.21	23.61	23.61	23.21	23.53	23.66	23.64
HSDPA Subtest-4	22.94	22.54	22.22	23.22	23.61	22.97	23.58	23.42	23.36
HSUPA Subtest-1	23.78	23	22.68	24.09	24.14	23.73	24.34	23.75	23.7
HSUPA Subtest-2	23.55	23.11	22.73	24.06	24.22	23.65	24.13	23.96	24.07
HSUPA Subtest-3	23.18	22.73	22.45	23.78	24.01	23.12	24.15	23.63	23.58
HSUPA Subtest-4	23.41	23.14	22.81	23.99	24.16	23.58	24.14	23.95	24.02
HSUPA Subtest-5	23.06	23	22.32	23.48	23.78	23.3	23.74	23.61	23.62

Hotspot mode:

Band	WCDMA Band 2			WCDMA Band 4		
Channel	9262	9400	9538	1312	1450	1513
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740	1752.4
RMC 12.2Kbps	20.6	20.56	20.61	20.81	20.9	20.88
HSDPA Subtest-1	21.07	20.46	20.18	21.47	21.4	21.03
HSDPA Subtest-2	20.51	20.26	19.94	20.93	21.27	20.8
HSDPA Subtest-3	20.28	19.89	19.4	20.77	21.07	20.63
HSDPA Subtest-4	20.13	19.76	19.69	20.74	20.92	20.51
HSUPA Subtest-1	20.74	20.1	20.12	21.27	21.28	20.86
HSUPA Subtest-2	20.8	20.28	20.06	21.19	21.35	20.96
HSUPA Subtest-3	20.35	19.88	19.95	20.79	21.24	20.58
HSUPA Subtest-4	20.74	20.32	20.12	21.03	21.35	20.93
HSUPA Subtest-5	20.48	20.07	19.79	21.12	21.3	20.83

According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM (db)	MPR (db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: $CM=1$ for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		



The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.



2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11b	1	2412	13.2	20.89
	6	2437	15.42	34.83
	11	2462	13.69	23.39
802.11g	1	2412	12.84	19.23
	6	2437	14.67	29.31
	11	2462	13.19	20.84
802.11 n-HT20	1	2412	12.68	18.54
	6	2437	14.61	28.91
	11	2462	13.1	20.42
802.11 n-HT40	3	2422	13.54	22.59
	6	2437	13.95	24.83
	9	2452	12.21	16.63

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	0.09	1.02
	39	2441	0.3	1.07
	78	2480	0.56	1.14
$\pi/4$ -QPSK(2Mbps)	0	2402	0.66	1.16
	39	2441	0.96	1.25
	78	2480	0.85	1.22
8DPSK(3Mbps)	0	2402	0.81	1.21
	39	2441	1.17	1.31
	78	2480	1.01	1.26

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-0.2	0.95
	19	2440	0.24	1.06
	39	2480	0.56	1.14
GFSK(2Mbps)	0	2402	-0.33	0.93
	19	2440	-0.36	0.92
	39	2480	0.39	1.09



WLAN (5.2Gband)

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	36	5180	12.84	19.23
	40	5200	12.91	19.54
	48	5240	12.52	17.86
802.11 n-HT20	36	5180	11.87	15.38
	40	5200	11.93	15.60
	48	5240	11.52	14.19
802.11 n-HT40	38	5190	12.47	17.66
	46	5230	12.27	16.87
802.11ac-VHT20	36	5180	11.89	15.45
	40	5200	12.29	16.94
	48	5240	11.79	15.10
802.11ac-VHT40	38	5190	13.03	20.09
	46	5230	12.95	19.72
802.11ac-VHT80	42	5210	13.26	21.18

WLAN (5.3G band)

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	52	5260	14.13	25.88
	60	5300	13.64	23.12
	64	5320	13.73	23.60
802.11 n-HT20	52	5260	12.74	18.79
	60	5300	12.23	16.71
	64	5320	12.27	16.87
802.11 n-HT40	54	5270	12.96	19.77
	62	5310	12.83	19.19
802.11ac-VHT20	52	5260	13.08	20.32
	60	5300	12.52	17.86
	64	5320	12.64	18.37
802.11ac-VHT40	54	5270	13.33	21.53
	62	5310	12.93	19.63
802.11ac-VHT80	58	5290	12.95	19.72



WLAN (5.6G band)

5.6G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	100	5500	12.09	16.18
	116	5580	12.08	16.14
	140	5700	12.52	17.86
802.11 n-HT20	100	5500	11.65	14.62
	116	5580	11.68	14.72
	140	5700	11.8	15.14
802.11 n-HT40	102	5510	10.67	11.67
	110	5550	11.12	12.94
	134	5670	10.65	11.61
802.11ac-VHT20	100	5500	10.81	12.05
	116	5580	10.53	11.30
	140	5700	10.84	12.13
802.11ac-VHT40	102	5510	9.96	9.91
	110	5550	10.41	10.99
	134	5670	10.27	10.64
802.11ac-VHT80	106	5530	10.54	11.32
	122	5610	10.5	11.22

WLAN (5.8G band)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	149	5745	12.2	16.60
	157	5785	11.75	14.96
	165	5825	12.49	17.74
802.11 n-HT20	149	5745	11.54	14.26
	157	5785	10.84	12.13
	165	5825	11.59	14.42
802.11 n-HT40	151	5755	10.52	11.27
	159	5795	10.63	11.56
802.11ac-VHT20	149	5745	10.57	11.40
	157	5785	9.83	9.62
	165	5825	10.63	11.56
802.11ac-VHT40	151	5755	10.11	10.26
	159	5795	10.12	10.28
802.11ac-VHT80	155	5775	9.72	9.38

NFC

Field strength (dBuV/m)	ERP (dBm)
50.17	-45.03

Note. The power of this EUT NFC is -45.03dBm (0.00003mW), this power is less than the defined low power exclusion level (Pmax: 39 mW), so NFC is exemption.



LTE Conducted Power

General Note:

1. Anritsu CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.88	25.05	25.31
1.4	1	2		24.94	25.13	25.28
1.4	1	5		24.91	24.98	25.26
1.4	3	0		24.78	24.88	25.24
1.4	3	1		24.8	24.86	25.24
1.4	3	2		24.78	24.82	25.21
1.4	6	0		23.93	23.86	24.18
1.4	1	0	16-QAM	24.09	24.09	24.33
1.4	1	2		24.14	24.11	24.34
1.4	1	5		24.11	24.12	24.34
1.4	3	0		24.23	23.91	24.24
1.4	3	1		24.17	23.82	24.26
1.4	3	2		24.18	23.81	24.28
1.4	6	0		23.01	22.85	23.4
3	1	0	QPSK	24.74	24.79	25.21
3	1	7		24.76	24.79	25.34
3	1	14		24.87	24.75	25.26
3	8	0		23.83	23.88	24.13
3	8	4		23.85	23.83	24.16
3	8	7		23.8	23.82	24.2
3	15	0		23.91	23.81	24.27
3	1	0	16-QAM	24.98	23.34	24.12
3	1	7		24.96	23.37	24.21
3	1	14		24.98	23.38	24.23
3	8	0		22.84	22.88	23.2
3	8	4		22.83	22.94	23.27
3	8	7		22.86	22.93	23.31
3	15	0		22.98	22.87	23.44



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.84	24.79	24.86
5	1	12		24.79	24.86	24.97
5	1	24		24.78	24.91	24.97
5	12	0		23.9	23.84	24.16
5	12	6		23.83	23.79	24.1
5	12	11		23.91	23.83	24.26
5	25	0		23.96	23.8	24.08
5	1	0	16-QAM	23.9	23.55	24.66
5	1	12		23.94	23.57	24.66
5	1	24		23.9	23.58	24.8
5	12	0		22.91	22.75	23.22
5	12	6		22.87	22.74	23.19
5	12	11		22.85	22.79	23.24
5	25	0		23.04	22.96	23.36
10	1	0	QPSK	24.72	24.73	24.97
10	1	24		24.75	24.75	25.13
10	1	49		24.86	24.8	25.32
10	25	0		23.94	23.73	23.98
10	25	12		23.82	23.81	24.1
10	25	24		23.95	23.78	24.2
10	50	0		23.94	23.76	24.11
10	1	0	16-QAM	24.9	24.46	24.25
10	1	24		24.95	24.52	24.41
10	1	49		24.97	24.61	24.51
10	25	0		22.95	22.94	23.13
10	25	12		22.98	22.98	23.18
10	25	24		22.91	22.94	23.29
10	50	0		22.89	23	23.07



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.77	24.74	24.89
15	1	37		24.78	24.84	24.94
15	1	74		24.79	24.9	25.2
15	36	0		23.88	23.79	23.97
15	36	18		23.81	23.85	24.02
15	36	39		23.87	23.93	24.2
15	75	0		23.81	23.86	24.12
15	1	0	16-QAM	24.9	24.55	24.83
15	1	38		24.89	24.6	24.88
15	1	75		24.91	24.61	25.08
15	36	0		22.92	22.95	22.94
15	36	18		22.96	23.02	23
15	36	39		23.01	23.07	23.16
15	75	0		22.92	22.86	23.11
20	1	0	QPSK	24.94	25.08	25.15
20	1	49		24.97	25.08	25.14
20	1	99		24.97	25.23	25.44
20	50	0		23.93	23.65	23.91
20	50	24		23.81	23.77	23.87
20	50	49		23.93	23.83	24.16
20	100	0		23.91	23.95	23.93
20	1	0	16-QAM	23.92	23.41	23.87
20	1	49		23.94	23.48	23.89
20	1	99		23.94	23.72	24.2
20	50	0		22.91	22.77	22.99
20	50	24		22.94	22.87	23.02
20	50	49		23.03	22.99	23.18
20	100	0		22.94	22.98	23.03



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.33	23.4	23
1.4	1	2		24.34	24.09	22.92
1.4	1	5		24.34	23.96	23.02
1.4	3	0		23.68	23.69	23.65
1.4	3	1		23.7	23.75	23.69
1.4	3	2		23.73	23.76	23.69
1.4	6	0		22.7	22.79	22.78
1.4	1	0	16-QAM	23.88	23.88	23.91
1.4	1	2		23.8	23.93	23.83
1.4	1	5		23.85	23.88	23.94
1.4	3	0		23	22.87	22.69
1.4	3	1		23.05	22.86	22.65
1.4	3	2		23.07	22.85	22.75
1.4	6	0		22.1	21.76	21.78
3	1	0	QPSK	23.84	23.82	23.86
3	1	7		23.76	23.93	23.9
3	1	14		23.67	23.9	23.83
3	8	0		22.75	22.69	22.71
3	8	4		22.75	22.77	22.7
3	8	7		22.66	22.81	22.82
3	15	0		22.73	22.8	22.64
3	1	0	16-QAM	24.34	23.37	22.89
3	1	7		24.43	23.38	22.92
3	1	14		24.45	23.35	22.96
3	8	0		21.7	21.91	21.9
3	8	4		21.68	21.93	21.83
3	8	7		21.57	21.92	21.79
3	15	0		21.9	21.85	21.88



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.72	23.84	23.52
5	1	12		23.56	23.84	23.48
5	1	24		23.61	23.88	23.51
5	12	0		22.66	22.71	22.74
5	12	6		22.66	22.69	22.76
5	12	11		22.72	22.84	22.74
5	25	0		22.71	22.8	22.71
5	1	0	16-QAM	23.45	22.91	23.76
5	1	12		23.32	23	23.86
5	1	24		23.41	23.04	23.81
5	12	0		21.79	21.73	21.76
5	12	6		21.65	21.65	21.81
5	12	11		21.61	21.74	21.77
5	25	0		21.73	21.87	22
10	1	0	QPSK	23.75	24	23.85
10	1	24		23.7	24.05	23.79
10	1	49		23.85	24.01	23.82
10	25	0		22.65	22.8	22.83
10	25	12		22.76	22.76	22.71
10	25	24		22.78	22.8	22.85
10	50	0		22.72	22.79	22.87
10	1	0	16-QAM	22.91	23.43	23.81
10	1	24		22.98	23.46	23.79
10	1	49		23.02	23.49	23.8
10	25	0		21.81	21.82	21.96
10	25	12		21.92	21.89	21.94
10	25	24		21.97	21.88	21.98
10	50	0		21.85	21.88	21.84



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.36	24.05	24.29
15	1	37		24.38	23.93	24.23
15	1	74		24.41	24	24.21
15	36	0		22.63	22.74	22.79
15	36	18		22.72	22.68	22.78
15	36	39		22.66	22.81	22.79
15	75	0		22.68	22.72	22.77
15	1	0	16-QAM	23.61	23.7	23.76
15	1	38		23.64	23.69	23.71
15	1	75		23.7	23.72	23.7
15	36	0		21.81	21.92	21.8
15	36	18		21.87	21.91	21.75
15	36	39		21.93	21.95	21.68
15	75	0		21.71	21.78	21.93
20	1	0	QPSK	23.78	24.39	23.78
20	1	49		23.65	24.41	23.83
20	1	99		23.83	24.48	23.73
20	50	0		22.56	22.81	22.69
20	50	24		22.77	22.77	22.78
20	50	49		22.81	22.72	22.68
20	100	0		22.69	22.69	22.8
20	1	0	16-QAM	23.25	23.72	23.92
20	1	49		23.33	23.77	23.93
20	1	99		23.32	23.81	23.92
20	50	0		21.77	21.75	21.88
20	50	24		21.75	21.74	21.87
20	50	49		21.83	21.74	21.83
20	100	0		21.82	21.74	21.86



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.06	23.51	22.67
1.4	1	2		23.19	23.42	22.73
1.4	1	5		23.08	23.5	22.7
1.4	3	0		22.27	22.12	22.23
1.4	3	1		22.17	22.15	22.19
1.4	3	2		22.24	22.19	22.3
1.4	6	0		22.26	22.15	22.26
1.4	1	0	16-QAM	22.13	22.24	22.49
1.4	1	2		22.19	22.22	22.41
1.4	1	5		22.18	22.26	22.35
1.4	3	0		22.63	22.19	22.29
1.4	3	1		22.64	22.22	22.23
1.4	3	2		22.61	22.19	22.22
1.4	6	0		22.36	22.15	22.44
3	1	0	QPSK	23.5	22.61	22.9
3	1	7		23.49	22.57	22.89
3	1	14		23.19	22.52	22.79
3	8	0		22.21	22.07	22.28
3	8	4		22.24	22.11	22.24
3	8	7		21.75	22.16	22.26
3	15	0		22.13	22.08	22.2
3	1	0	16-QAM	22.09	22.26	22.44
3	1	7		22.12	22.23	22.35
3	1	14		21.79	22.2	22.37
3	8	0		22.11	22.21	22.38
3	8	4		22.13	22.12	22.38
3	8	7		21.73	22.16	22.25
3	15	0		22.2	22.08	22.36



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.68	22.63	23.27
5	1	12		22.33	22.57	23.33
5	1	24		22.82	22.63	23.31
5	12	0		22.25	22.06	22.25
5	12	6		21.77	22.09	22.34
5	12	11		21.83	22.12	22.24
5	25	0		21.74	22.01	22.26
5	1	0	16-QAM	22.1	22	22.12
5	1	12		21.69	22	22.23
5	1	24		22.16	22.09	21.99
5	12	0		22.15	21.94	22.14
5	12	6		21.71	21.86	22.25
5	12	11		21.74	22	22.24
5	25	0		21.79	22.02	22.39
10	1	0	QPSK	23.64	23.07	22.93
10	1	24		23.78	23.19	23.02
10	1	49		23.53	23.44	23.01
10	25	0		21.74	22.05	22.29
10	25	12		22.25	22.06	22.3
10	25	24		21.81	22.08	22.29
10	50	0		22.32	22.11	22.18
10	1	0	16-QAM	22.25	21.83	22.04
10	1	24		22.32	22.02	22.16
10	1	49		22.06	22.18	22.26
10	25	0		21.7	22.11	22.27
10	25	12		22.19	22.12	22.17
10	25	24		21.81	22.17	22.43
10	50	0		22.31	22.12	22.16



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.59	23.62	23.67
5	1	12		23.54	23.53	23.66
5	1	24		23.48	23.56	23.73
5	12	0		22.62	22.68	22.83
5	12	6		22.65	22.73	22.65
5	12	11		22.47	22.7	22.81
5	25	0		22.54	22.79	22.77
5	1	0	16-QAM	22.87	23.24	23.27
5	1	12		22.83	23.3	23.24
5	1	24		22.74	23.28	23.29
5	12	0		21.51	21.73	21.65
5	12	6		21.64	21.76	21.63
5	12	11		21.51	21.75	21.74
5	25	0		21.74	21.74	21.99
10	1	0	QPSK	24.2	23.14	23.25
10	1	24		24.16	23.24	23.21
10	1	49		24.06	23.3	23.32
10	25	0		22.53	22.62	22.73
10	25	12		22.59	22.66	22.79
10	25	24		22.52	22.67	22.79
10	50	0		22.48	22.71	22.77
10	1	0	16-QAM	23.48	23.63	23.67
10	1	24		23.44	23.78	23.75
10	1	49		23.41	23.75	23.83
10	25	0		21.57	21.74	21.91
10	25	12		21.56	21.83	21.96
10	25	24		21.48	21.84	21.91
10	50	0		21.62	21.93	21.91



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.62	23.95	23.82
15	1	37		23.35	24.13	23.74
15	1	74		23.48	24.17	23.83
15	36	0		22.45	22.69	22.53
15	36	18		22.4	22.72	22.77
15	36	39		22.42	22.79	22.68
15	75	0		22.4	22.7	22.74
15	1	0	16-QAM	23.51	23.12	23.58
15	1	38		23.2	23.28	23.65
15	1	75		23.34	23.33	23.66
15	36	0		21.69	21.75	21.84
15	36	18		21.65	21.78	21.81
15	36	39		21.62	21.88	21.85
15	75	0		21.58	21.75	21.85
20	1	0	QPSK	24.23	23.82	24.03
20	1	49		24.07	23.88	24.15
20	1	99		23.97	23.84	23.88
20	50	0		22.5	22.64	22.77
20	50	24		22.55	22.66	22.68
20	50	49		22.33	22.74	22.74
20	100	0		22.4	22.71	22.76
20	1	0	16-QAM	23.43	23.62	23.66
20	1	49		23.37	23.76	23.72
20	1	99		23.31	23.73	23.86
20	50	0		21.61	21.81	21.77
20	50	24		21.61	21.86	21.89
20	50	49		21.55	21.99	21.8
20	100	0		21.66	21.83	21.92



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	25.3	25.47	25.39
1.4	1	2		25.25	25.48	25.43
1.4	1	5		25.3	25.47	25
1.4	3	0		25.22	25.53	25.33
1.4	3	1		25.26	25.56	25.31
1.4	3	2		25.25	25.51	25.08
1.4	6	0		24.2	24.46	24.48
1.4	1	0	16-QAM	25.2	24.46	24.5
1.4	1	2		25.23	24.46	24.5
1.4	1	5		25.22	24.48	24.5
1.4	3	0		24.4	24.51	24.48
1.4	3	1		24.4	24.49	24.41
1.4	3	2		24.49	24.44	24.48
1.4	6	0		23.27	23.53	23.52
3	1	0	QPSK	25.15	25.46	25.59
3	1	7		25.09	25.45	25.6
3	1	14		25.37	25.43	25.06
3	8	0		24.25	24.49	24.52
3	8	4		24.21	24.5	24.46
3	8	7		24.49	24.41	24.42
3	15	0		24.21	24.48	24.6
3	1	0	16-QAM	25.12	24.45	25.2
3	1	7		25.11	24.46	25.24
3	1	14		25.42	24.47	24.74
3	8	0		22.9	23.4	23.45
3	8	4		22.95	23.44	23.44
3	8	7		23.18	23.44	23.37
3	15	0		23.12	23.39	23.56



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	25.25	25.19	25.25
5	1	12		25.45	25.61	25.26
5	1	24		25.25	25.52	24.72
5	12	0		24.27	24.49	24.59
5	12	6		24.46	24.41	24.45
5	12	11		24.45	24.42	24.43
5	25	0		24.51	24.49	24.4
5	1	0	16-QAM	24.2	24.51	24.48
5	1	12		24.52	24.52	24.39
5	1	24		24.53	24.53	24.45
5	12	0		23.02	23.17	23.49
5	12	6		23.28	23.29	23.43
5	12	11		23.22	23.3	23.42
5	25	0		23.46	23.46	23.41
10	1	0	QPSK	25.19	25.2	25.4
10	1	24		25.35	25.48	25.62
10	1	49		25.49	25.5	25.41
10	25	0		24.49	24.49	24.4
10	25	12		24.37	24.39	24.64
10	25	24		24.52	24.64	24.41
10	50	0		24.43	24.45	24.34
10	1	0	16-QAM	24.96	24.97	24.69
10	1	24		25.25	24.99	24.7
10	1	49		25.37	25.16	24.78
10	25	0		23.34	23.32	23.42
10	25	12		23.37	23.5	23.44
10	25	24		23.3	23.48	23.59
10	50	0		23.34	23.45	23.32



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.35	24.24	24.34
5	1	12		24.3	24.38	24.4
5	1	24		24.42	24.35	23.4
5	12	0		23.41	23.22	23.38
5	12	6		23.34	23.53	23.63
5	12	11		23.2	23.43	23.49
5	25	0		23.29	23.39	23.49
5	1	0	16-QAM	23.02	23.11	23.51
5	1	12		22.95	23.35	23.67
5	1	24		23.04	23.26	22.86
5	12	0		22.18	22.79	22.77
5	12	6		22.78	22.29	22.43
5	12	11		22.72	22.89	23.01
5	25	0		22.84	22.31	20.74
10	1	0	QPSK	/	24.35	/
10	1	24		/	24.46	/
10	1	49		/	24.63	/
10	25	0		/	23.21	/
10	25	12		/	23.5	/
10	25	24		/	23.4	/
10	50	0		/	23.44	/
10	1	0	16-QAM	/	24.35	/
10	1	24		/	24.42	/
10	1	49		/	24.6	/
10	25	0		/	22.64	/
10	25	12		/	22.23	/
10	25	24		/	22.82	/
10	50	0		/	22.36	/



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	25.47	25.4	25.56
5	1	12		25.54	25.45	25.52
5	1	24		25.68	25.5	25.5
5	12	0		24.48	24.53	24.62
5	12	6		24.49	24.58	24.7
5	12	11		24.58	24.6	24.72
5	25	0		24.51	24.6	24.64
5	1	0	16-QAM	24.21	24.97	24.73
5	1	12		24.18	24.99	24.74
5	1	24		24.34	25.2	24.82
5	12	0		23.44	23.49	23.56
5	12	6		23.38	23.61	23.52
5	12	11		23.48	23.58	23.62
5	25	0		23.55	23.7	23.75
10	1	0	QPSK	25.42	25.55	25.5
10	1	24		25.56	25.7	25.74
10	1	49		25.71	25.79	25.83
10	25	0		24.54	24.56	24.65
10	25	12		24.7	24.62	24.73
10	25	24		24.59	24.6	24.67
10	50	0		24.59	24.66	24.69
10	1	0	16-QAM	25.41	24.47	24.72
10	1	24		25.5	24.58	24.98
10	1	49		25.65	24.67	25.05
10	25	0		23.51	23.59	23.63
10	25	12		23.6	23.72	23.71
10	25	24		23.66	23.7	23.69
10	50	0		23.66	23.72	23.61



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.46	23.29	23.84
1.4	1	2		23.45	23.34	23.96
1.4	1	5		23.42	23.33	23.77
1.4	3	0		23.23	23.39	23.78
1.4	3	1		23.29	23.45	23.81
1.4	3	2		23.28	23.46	23.73
1.4	6	0		22.36	22.43	22.99
1.4	1	0	16-QAM	23.31	21.88	22.97
1.4	1	2		23.36	21.98	22.96
1.4	1	5		23.35	22.01	23.02
1.4	3	0		22.59	22.38	23.07
1.4	3	1		22.55	22.35	23.07
1.4	3	2		22.58	22.42	23.08
1.4	6	0		21.51	21.65	22.21
3	1	0	QPSK	23.21	23.33	23.63
3	1	7		23.22	23.43	23.83
3	1	14		23.28	23.38	23.71
3	8	0		22.37	22.39	22.91
3	8	4		22.26	22.45	22.98
3	8	7		22.35	22.45	23.03
3	15	0		22.23	22.44	22.97
3	1	0	16-QAM	23.39	21.99	23.16
3	1	7		23.45	21.95	23.32
3	1	14		23.43	21.96	23.2
3	8	0		21.28	21.57	22.06
3	8	4		21.27	21.52	22.08
3	8	7		21.32	21.52	22.1
3	15	0		21.44	21.46	22.03



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.29	23.5	23.18
5	1	12		23.3	23.51	23.61
5	1	24		23.29	23.55	23.36
5	12	0		22.27	22.38	22.91
5	12	6		22.45	22.45	23.01
5	12	11		22.42	22.35	23.02
5	25	0		22.33	22.34	23.01
5	1	0	16-QAM	22.32	22.47	23.22
5	1	12		22.39	22.51	23.52
5	1	24		22.48	22.48	23.39
5	12	0		21.38	21.27	21.98
5	12	6		21.38	21.25	22.08
5	12	11		21.37	21.29	22.01
5	25	0		21.61	21.52	22.16
10	1	0	QPSK	23.5	23.47	23.55
10	1	24		23.49	23.53	23.69
10	1	49		23.47	23.65	23.98
10	25	0		22.45	22.53	22.54
10	25	12		22.37	22.38	22.7
10	25	24		22.34	22.53	22.86
10	50	0		22.32	22.46	22.67
10	1	0	16-QAM	22.44	22.1	22.88
10	1	24		22.45	22.26	23.01
10	1	49		22.43	22.32	23.36
10	25	0		21.51	21.51	21.66
10	25	12		21.48	21.49	21.83
10	25	24		21.49	21.53	22
10	50	0		21.4	21.48	21.79



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.27	23.28	23.53
15	1	37		23.3	23.32	23.78
15	1	74		23.3	23.49	23.85
15	36	0		22.43	22.24	22.72
15	36	18		22.29	22.38	22.69
15	36	39		22.31	22.55	22.95
15	75	0		22.29	22.47	22.76
15	1	0	16-QAM	23.44	23.12	23.23
15	1	38		23.43	23.19	23.48
15	1	75		23.44	23.19	23.66
15	36	0		21.48	21.51	21.76
15	36	18		21.45	21.64	21.84
15	36	39		21.45	21.67	22.03
15	75	0		21.44	21.43	21.87
20	1	0	QPSK	23.26	23.46	23.71
20	1	49		23.26	23.35	23.66
20	1	99		23.3	23.39	24
20	50	0		22.44	22.33	22.79
20	50	24		22.25	22.49	22.81
20	50	49		22.27	22.44	22.96
20	100	0		22.35	22.36	22.93
20	1	0	16-QAM	23.37	23.2	22.97
20	1	49		23.46	23.12	23.13
20	1	99		23.49	23.25	23.23
20	50	0		21.47	21.48	21.83
20	50	24		21.46	21.52	21.93
20	50	49		21.44	21.53	22.15
20	100	0		21.4	21.52	21.82



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.63	22.65	22.52
1.4	1	2		23.55	22.48	22.52
1.4	1	5		23.6	22.54	22.55
1.4	3	0		22.17	21.66	21.59
1.4	3	1		22.06	21.64	21.59
1.4	3	2		21.65	21.64	21.69
1.4	6	0		22.18	21.64	21.71
1.4	1	0	16-QAM	22.22	22.29	22.04
1.4	1	2		22.06	22.32	22.14
1.4	1	5		22.16	22.28	22.14
1.4	3	0		21.98	21.57	21.53
1.4	3	1		22.06	21.54	21.47
1.4	3	2		21.54	21.62	21.5
1.4	6	0		22.1	21.79	21.74
3	1	0	QPSK	23.73	22.51	21.99
3	1	7		23.61	22.41	22.49
3	1	14		23.69	22.09	22.47
3	8	0		21.72	21.73	21.07
3	8	4		21.65	21.68	21.65
3	8	7		21.66	21.62	21.59
3	15	0		21.58	21.65	21.59
3	1	0	16-QAM	22.21	22.2	21.69
3	1	7		22.14	22.21	22.16
3	1	14		22.26	21.78	22.2
3	8	0		21.52	21.69	21.22
3	8	4		21.45	21.58	21.67
3	8	7		21.53	21.64	21.64
3	15	0		21.81	21.64	21.7



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.87	22.62	23.13
5	1	12		22.84	22.53	22.67
5	1	24		22.86	22.12	23.13
5	12	0		21.68	21.59	21.16
5	12	6		21.75	21.7	21.12
5	12	11		21.64	21.16	21.7
5	25	0		21.63	21.67	21.12
5	1	0	16-QAM	21.97	22.06	21.91
5	1	12		22.07	22.03	21.55
5	1	24		21.95	21.62	21.94
5	12	0		21.49	21.42	21.09
5	12	6		21.57	21.45	21.1
5	12	11		21.48	21.01	21.58
5	25	0		21.76	21.64	21.23
10	1	0	QPSK	/	23.67	/
10	1	24		/	23.76	/
10	1	49		/	23.68	/
10	25	0		/	21.86	/
10	25	12		/	21.86	/
10	25	24		/	21.82	/
10	50	0		/	21.74	/
10	1	0	16-QAM	/	22.34	/
10	1	24		/	22.36	/
10	1	49		/	22.32	/
10	25	0		/	21.69	/
10	25	12		/	21.81	/
10	25	24		/	21.7	/
10	50	0		/	21.77	/



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.46	23.73	22.83
1.4	1	2		23.45	23.7	22.85
1.4	1	5		23.48	23.7	22.87
1.4	3	0		21.59	22.13	21.77
1.4	3	1		21.68	22.04	21.81
1.4	3	2		21.64	22.03	21.72
1.4	6	0		21.61	22.11	21.78
1.4	1	0	16-QAM	22.29	22.48	22.38
1.4	1	2		22.28	22.5	22.39
1.4	1	5		22.32	22.53	22.42
1.4	3	0		21.78	22.05	21.72
1.4	3	1		21.82	22.04	21.73
1.4	3	2		21.79	22.06	21.7
1.4	6	0		21.79	22	21.78
3	1	0	QPSK	23.53	23.65	22.89
3	1	7		23.45	23.72	22.82
3	1	14		23.2	23.75	22.78
3	8	0		21.63	22.1	21.85
3	8	4		21.66	22.04	21.75
3	8	7		21.28	22.09	21.78
3	15	0		21.73	22.01	21.72
3	1	0	16-QAM	22.09	22.38	22.44
3	1	7		22.1	22.47	22.33
3	1	14		21.75	22.58	22.2
3	8	0		21.51	22.27	21.84
3	8	4		21.54	22.35	21.85
3	8	7		21.16	22.26	21.78
3	15	0		21.75	22.17	21.87



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.61	22.94	23.72
5	1	12		22.32	22.97	23.38
5	1	24		22.75	23.11	23.37
5	12	0		21.75	22.11	22.23
5	12	6		21.12	22.06	21.8
5	12	11		21.35	22.03	21.83
5	25	0		21.2	22.1	21.92
5	1	0	16-QAM	21.98	22.38	22.59
5	1	12		21.71	22.44	22.16
5	1	24		22.14	22.6	22.18
5	12	0		21.59	21.89	22.21
5	12	6		21.14	21.87	21.88
5	12	11		21.12	21.89	21.78
5	25	0		21.3	22.12	22.01
10	1	0	QPSK	23.61	23.12	23.32
10	1	24		23.77	23.57	23.03
10	1	49		23.64	23.72	23.14
10	25	0		21.84	22.45	22.72
10	25	12		22.17	22.47	22.21
10	25	24		21.99	22.7	22.28
10	50	0		22.25	22.55	22.33
10	1	0	16-QAM	22.19	21.85	22.53
10	1	24		22.32	22.47	22.28
10	1	49		22.17	22.62	22.23
10	25	0		21.72	22.54	22.64
10	25	12		22.16	22.61	22.39
10	25	24		21.85	22.63	22.42
10	50	0		22.27	22.62	22.32



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.57	23.37	23.69
15	1	37		23.47	23.63	23.84
15	1	74		24.17	23.5	23.67
15	36	0		22.28	22.11	22.64
15	36	18		21.91	22.59	22.59
15	36	39		22.45	22.68	22.72
15	75	0		21.92	22.47	22.7
15	1	0	16-QAM	22.12	22.2	22.45
15	1	38		21.97	22.47	22.54
15	1	75		22.62	22.32	22.33
15	36	0		22.24	22.1	22.55
15	36	18		21.82	22.59	22.62
15	36	39		22.47	22.76	22.68
15	75	0		21.98	22.46	22.56



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.23	24.15	23.29
5	1	12		23.41	24.22	23.43
5	1	24		23.26	24.14	23.42
5	12	0		23.01	22.99	23.04
5	12	6		23	22.94	23.17
5	12	11		22.88	23	23.02
5	25	0		22.9	23	23.06
5	1	0	16-QAM	23.93	23.82	24.16
5	1	12		23.94	23.78	24.07
5	1	24		24	23.74	24.12
5	12	0		21.91	22.06	22.11
5	12	6		21.88	22.04	22.07
5	12	11		21.93	22.11	22.11
5	25	0		22.15	22.22	22.27
10	1	0	QPSK	24.29	23.19	24.02
10	1	24		24.03	23.3	24.08
10	1	49		24.16	23.24	24.29
10	25	0		23.01	22.92	23.12
10	25	12		22.93	22.99	22.98
10	25	24		22.91	22.87	23.14
10	50	0		22.55	22.62	22.61
10	1	0	16-QAM	24.1	24.17	23.9
10	1	24		24.03	24.11	23.97
10	1	49		24.09	24.13	24.02
10	25	0		22.07	21.94	22.11
10	25	12		21.98	21.91	22.2
10	25	24		22.05	21.99	22.09
10	50	0		21.73	21.87	21.77



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.55	23.74	23.39
15	1	37		23.66	23.85	23.58
15	1	74		23.66	24.18	24.05
15	36	0		22.94	22.91	23.05
15	36	18		23.02	23.02	22.98
15	36	39		22.92	23	23.13
15	75	0		22.68	22.63	22.54
15	1	0	16-QAM	23.97	23.73	24
15	1	38		23.95	23.74	24.09
15	1	75		23.98	23.95	24.11
15	36	0		22.19	22.05	22.08
15	36	18		22.24	22.01	22.16
15	36	39		22.36	22.01	22.22
15	75	0		22.13	22.13	22.16
20	1	0	QPSK	24.75	23.17	23.7
20	1	49		24.59	23.18	23.79
20	1	99		24.67	23.23	23.88
20	50	0		22.99	22.83	22.99
20	50	24		22.93	22.99	22.98
20	50	49		23.02	22.94	23.04
20	100	0		22.55	22.65	22.63
20	1	0	16-QAM	24.07	24.1	23.8
20	1	49		23.9	24.13	23.8
20	1	99		23.93	24.23	23.91
20	50	0		22.03	22.15	22.04
20	50	24		22	22.27	22.02
20	50	49		22.07	22.25	22.11
20	100	0		21.74	21.84	21.95



LTE Band 41 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest1	Lowest2	Middle	Highest 1	Highest 2
5	1	0	QPSK	23.61	23.15	23.46	23.00	24.43
5	1	12		23.58	23.11	23.51	23.05	24.32
5	1	24		23.53	23.06	23.58	23.12	24.27
5	12	0		22.67	22.23	22.57	22.12	23.36
5	12	6		22.79	22.34	22.70	22.25	23.29
5	12	11		22.67	22.24	22.61	22.16	23.28
5	25	0		22.67	22.23	22.58	22.14	23.33
5	1	0	16-QAM	23.24	22.79	23.55	23.09	23.60
5	1	12		23.09	22.64	23.66	23.20	23.59
5	1	24		23.13	22.68	23.65	23.18	23.52
5	12	0		21.88	21.44	21.75	21.33	22.27
5	12	6		21.80	21.37	21.68	21.26	22.22
5	12	11		21.81	21.38	21.70	21.28	22.30
5	25	0		21.85	21.42	21.86	21.43	22.53
10	1	0	QPSK	23.71	23.25	23.74	23.28	24.34
10	1	24		23.54	23.07	23.71	23.24	24.36
10	1	49		23.40	22.94	23.84	23.37	24.40
10	25	0		22.78	22.33	22.61	22.17	23.22
10	25	12		22.61	22.17	22.72	22.27	23.33
10	25	24		22.62	22.19	22.80	22.36	23.25
10	50	0		22.26	21.83	22.29	21.86	22.88
10	1	0	16-QAM	23.63	23.16	23.75	23.29	23.74
10	1	24		23.89	23.42	23.56	23.10	23.64
10	1	49		23.41	22.96	23.80	23.33	23.65
10	25	0		21.77	21.35	21.71	21.28	22.53
10	25	12		21.65	21.22	21.71	21.29	22.49
10	25	24		21.59	21.17	21.85	21.43	22.42
10	50	0		21.43	21.01	21.50	21.07	22.08



LTE Band 41 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest1	Lowest2	Middle	Highest 1	Highest 2
15	1	0	QPSK	23.56	23.10	23.79	23.32	24.11
15	1	37		23.22	22.77	23.75	23.28	24.38
15	1	74		23.22	22.78	23.95	23.48	24.38
15	36	0		22.66	22.21	22.64	22.19	23.21
15	36	18		22.63	22.19	22.65	22.20	23.32
15	36	39		22.40	21.97	22.85	22.40	23.32
15	75	0		22.22	21.79	22.36	21.91	22.86
15	1	0	16-QAM	23.45	22.99	23.99	23.51	23.78
15	1	38		23.23	22.78	24.01	23.53	23.91
15	1	75		23.09	22.65	24.04	23.57	23.83
15	36	0		21.63	21.21	21.70	21.28	22.25
15	36	18		21.52	21.10	21.77	21.35	22.32
15	36	39		21.39	20.97	21.91	21.49	22.37
15	75	0		21.45	21.04	21.39	20.97	22.15
20	1	0	QPSK	23.80	23.33	23.78	23.32	24.34
20	1	49		23.48	23.03	23.70	23.25	24.44
20	1	99		23.45	22.98	24.07	23.60	24.40
20	50	0		22.63	22.20	22.64	22.19	23.23
20	50	24		22.50	22.07	22.72	22.28	23.21
20	50	49		22.46	22.02	22.86	22.41	23.28
20	100	0		22.04	21.62	22.36	21.92	22.94
20	1	0	16-QAM	23.07	22.62	22.95	22.50	23.34
20	1	49		22.86	22.41	23.15	22.70	22.99
20	1	99		22.79	22.34	23.44	22.97	23.07
20	50	0		21.79	21.37	21.76	21.33	22.41
20	50	24		21.66	21.23	21.71	21.28	22.40
20	50	49		21.70	21.28	21.85	21.42	22.58
20	100	0		21.64	21.22	21.99	21.55	22.34



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.39	24.4	24.21
1.4	1	2		24.39	24.34	24.15
1.4	1	5		24.37	24.4	23.84
1.4	3	0		24.29	24.35	24.02
1.4	3	1		24.31	24.48	23.99
1.4	3	2		24.21	24.48	23.84
1.4	6	0		23.22	23.45	23.39
1.4	1	0	16-QAM	24.34	24.08	23.36
1.4	1	2		24.35	24.06	23.31
1.4	1	5		24.33	24.02	23.38
1.4	3	0		23.6	23.84	23.4
1.4	3	1		23.56	23.84	23.38
1.4	3	2		23.57	23.81	23.36
1.4	6	0		22.62	22.38	22.5
3	1	0	QPSK	24.32	24.32	24.4
3	1	7		24.29	24.39	24.33
3	1	14		24.31	24.31	23.8
3	8	0		23.25	23.4	23.35
3	8	4		23.28	23.38	23.32
3	8	7		23.22	23.49	23.3
3	15	0		23.21	23.44	23.34
3	1	0	16-QAM	24.47	24.05	23.35
3	1	7		24.5	23.99	23.31
3	1	14		24.49	23.95	23.28
3	8	0		22.3	22.62	22.38
3	8	4		22.22	22.71	22.39
3	8	7		22.3	22.68	22.42
3	15	0		22.48	22.54	22.54



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.14	24.5	24.24
5	1	12		24.19	24.51	24.15
5	1	24		24.23	24.46	23.55
5	12	0		23.36	23.46	23.33
5	12	6		23.37	23.48	23.34
5	12	11		23.22	23.46	23.3
5	25	0		23.23	23.51	23.39
5	1	0	16-QAM	23.49	23.52	24.01
5	1	12		23.51	23.49	23.82
5	1	24		23.5	23.47	23.74
5	12	0		22.31	22.32	22.37
5	12	6		22.31	22.28	22.34
5	12	11		22.33	22.31	22.31
5	25	0		22.53	22.54	22.56
10	1	0	QPSK	24.24	24.43	24.46
10	1	24		24.19	24.45	24.46
10	1	49		24.32	24.42	24.23
10	25	0		23.19	23.34	23.43
10	25	12		23.36	23.44	23.45
10	25	24		23.23	23.32	23.31
10	50	0		23.31	23.47	23.47
10	1	0	16-QAM	24.39	23.36	23.81
10	1	24		24.42	23.41	23.75
10	1	49		24.54	23.39	23.65
10	25	0		22.39	22.45	22.53
10	25	12		22.44	22.53	22.58
10	25	24		22.41	22.57	22.48
10	50	0		22.45	22.5	22.41



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.19	24.45	24.32
15	1	37		24.27	24.45	24.28
15	1	74		24.35	24.38	24.08
15	36	0		23.35	23.39	23.39
15	36	18		23.27	23.46	23.34
15	36	39		23.38	23.46	23.4
15	75	0		23.4	23.4	23.42
15	1	0	16-QAM	24.45	24.06	24.08
15	1	38		24.47	24.01	24.06
15	1	75		24.52	23.99	24.02
15	36	0		22.42	22.66	22.47
15	36	18		22.4	22.68	22.42
15	36	39		22.44	22.68	22.46
15	75	0		22.49	22.41	22.48
20	1	0	QPSK	24.34	24.73	24.44
20	1	49		24.41	24.8	24.44
20	1	99		24.56	24.73	24.28
20	50	0		23.27	23.44	23.4
20	50	24		23.27	23.44	23.3
20	50	49		23.31	23.45	23.5
20	100	0		23.32	23.37	23.33
20	1	0	16-QAM	23.35	22.97	23.74
20	1	49		23.46	22.94	23.37
20	1	99		23.55	22.98	23.32
20	50	0		22.46	22.52	22.46
20	50	24		22.51	22.5	22.46
20	50	49		22.56	22.46	22.49
20	100	0		22.46	22.48	22.5



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	25.25	24.1	23.61
5	1	12		25	24.04	23.47
5	1	24		24.97	23.96	23.52
5	12	0		23.94	22.98	23.11
5	12	6		23.8	23.01	23.05
5	12	11		23.9	23.08	22.93
5	25	0		23.78	22.97	22.95
5	1	0	16-QAM	24.45	23.61	23.65
5	1	12		24.29	23.51	23.61
5	1	24		24.37	23.39	23.24
5	12	0		23.11	22.53	22.02
5	12	6		23.15	22.49	21.89
5	12	11		23.11	22.53	21.85
5	25	0		23.31	22.46	22.07
10	1	0	QPSK	24.93	24.89	24.18
10	1	24		24.83	24.24	23.96
10	1	49		24.04	24.03	23.71
10	25	0		23.97	23.25	23.01
10	25	12		23.72	23.06	22.96
10	25	24		23.28	23.06	23.11
10	50	0		23.68	23.13	23.06
10	1	0	16-QAM	24.11	24.48	23.44
10	1	24		23.93	23.76	23.36
10	1	49		23.31	23.37	23.49
10	25	0		23.38	22.57	22.38
10	25	12		23.36	22.58	21.89
10	25	24		22.71	22.45	22.14
10	50	0		23.23	22.46	21.87