

SAR TEST REPORT

For

Mobile Phone

Model Number: RMX3630

FCC ID: 2AUYFRMX3630

Report Number: WT228002146

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Test report declaration

Applicant : Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address : No.178 Yulong Avenue, Yufengshan, Yubei District,
Chongqing, China
Manufacturer : Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address : No.178 Yulong Avenue, Yufengshan, Yubei District,
Chongqing, China
EUT Description : Mobile Phone
Model No. : RMX3630
Brand : realme
FCC ID : 2AUYFRMX3630

Test Standards:

FCC 47CFR Part 2(2.1093) IEEE Std 1528-2013 KDB 447498 D01v06 KDB 248227 D01v02r02 KDB 865664 D01v01r04 KDB 865664 D02v01r02 KDB 648474 D04v01r03 KDB 941225 D01v03r01 KDB 941225 D05v02r05 KDB 941225 D06v02r01

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the compliance of the applicable standards stated above. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results.

The results documented in this report only apply to the tested sample, under the conditions and modes of operation as described herein.

The test report shall not be reproduced in part without written approval of the laboratory.

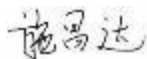
Project Engineer:



(Zhang Qiang)

Date: Sep. 27, 2022

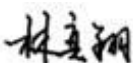
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Date: Sep. 27, 2022

TABLE OF CONTENTS

1. REPORTED SAR SUMMARY.....	5
1.1. Statement of Compliance.....	5
1.2. RF exposure limits (ICNIRP Guidelines).....	6
1.3. Ratings and System Details.....	7
1.4. Test specification(s).....	8
1.5. List of Test and Measurement Instruments.....	9
2. GENERAL INFORMATION.....	11
2.1. Report information.....	11
2.2. Laboratory Accreditation and Relationship to Customer.....	11
3. SAR MEASUREMENT SYSTEM CONFIGURATION.....	12
3.1. SAR Measurement Set-up.....	12
3.2. Probe description.....	13
3.3. Phantom description.....	14
3.4. Device holder description.....	15
4. SAR MEASUREMENT PROCEDURE.....	16
4.1. Scanning procedure.....	16
7. SYSTEM VERIFICATION PROCEDURE.....	22
7.1. Tissue Verification.....	22
8. SAR MEASUREMENT VARIABILITY AND UNCERTAINTY.....	27
8.1. SAR measurement variability.....	27
8.2. SAR measurement uncertainty.....	27
9. Test Configuration.....	28
10. TEST RESULTS.....	40
10.1. EUT Antenna Locations.....	40
11. TUNE-UP LIMIT.....	41
11.1. Tune-up Limit.....	41
12. MEASUREMENT RESULTS.....	64
12.1. Conducted Power.....	64
12.2. Power.....	65

12.3. SAR measurement Results.....	417
12.4. GSM850 SAR results.....	420
12.5. PCS1900 SAR results.....	421
12.6. WCDMA Band II SAR results.....	422
12.7. WCDMA Band IV SAR results.....	423
12.8. WCDMA Band V SAR results.....	424
12.9. LTE Band 2 SAR results.....	425
12.10. LTE Band 4 SAR results.....	426
12.11. LTE Band 5 SAR results.....	427
12.12. LTE Band 7 SAR results.....	428
12.13. LTE Band 12 SAR results.....	429
12.14. LTE Band 13 SAR results.....	430
12.15. LTE Band 17 SAR results.....	431
12.16. LTE Band 38 SAR results.....	432
12.17. LTE Band 41 SAR results.....	433
12.18. LTE Band 66 SAR results.....	434
12.19. 2.4GWi-Fi SAR results.....	435
12.20. 5.2GWi-Fi SAR results.....	436
12.21. 5.3GWi-Fi SAR results.....	437
12.22. 5.6GWi-Fi SAR results.....	438
12.23. 5.8GWi-Fi SAR results.....	439
12.24. BT SAR results.....	440
12.25. Repeated SAR results.....	441
13. EXPOSURE POSITIONS CONSIDERATION.....	442
13.1. Multiple Transmitter Evaluation.....	442
13.2. Simultaneous Transmission Possibilities.....	443
13.3. SAR Summation Scenario.....	444
13.4. Simultaneous Transmission Conclusion.....	446

1. REPORTED SAR SUMMARY

1.1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing are as follows.

Band		Highest SAR Summary			
		Head (Gap 0mm)	Hotspot (Gap10mm)	Body-worn (Gap15mm)	Extremity (Gap 0mm)
		1g SAR (W/kg)			10g SAR (W/kg)
GSM	GSM850	0.23	0.26	0.22	N/A
	PCS1900	0.24	0.24	0.08	N/A
WCDMA	WCDMA Band II	1.00	0.36	0.19	N/A
	WCDMA Band IV	0.45	0.48	0.31	N/A
	WCDMA Band V	0.31	0.15	0.17	N/A
LTE	LTE Band 2	0.53	0.33	0.19	N/A
	LTE Band 4	0.43	0.44	0.30	N/A
	LTE Band 5	0.32	0.16	0.18	N/A
	LTE Band 7	0.60	0.39	0.26	N/A
	LTE Band12	0.13	0.30	0.32	N/A
	LTE Band13	0.28	0.26	0.25	N/A
	LTE Band17	0.15	0.39	0.38	N/A
	LTE Band 38	0.68	0.32	0.13	N/A
	LTE Band 41	0.46	0.20	0.12	N/A
LTE Band 66	0.56	0.74	0.46	N/A	
WLAN	2.4GHzWLA	0.68	0.35	0.16	N/A

	N				
	5GHzWLAN	0.73	0.830	0.500	N/A
2.4GHz Band	Bluetooth	0.17	0.03	0.02	N/A

Maximum Report SAR 1g(W/kg)	Head	1.00	Limit(W/kg): 1.6 W/kg
	Hotspot(10mm)	0.83	
	Body-worn(15mm)	0.50	

Highest Simultaneous SAR 1g(W/kg)	LTE Band 66+WIFI 5G+BT	1.46	Limit(W/kg): 1.6 W/kg
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Note:

1. This device is in compliance with Specific Absorption Rate (SAR) for general population or uncontrolled exposure limits (1.6W/kg as averaged over any 1 gram of tissue; specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992), and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.
2. When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% risk level.

1.2. RF exposure limits (ICNIRP Guidelines)

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR*(Brain/Body)	1.60mW/g	8.00mW/g
Spatial Average SAR** (Whole Body)	0.08mW/g	0.40mW/g
Spatial Peak SAR***(Limbs)	4.00mW/g	20.00mW/g

Table 2: RF exposure limits

The limit applied in this test report is shown in bold letters

Notes:

- * The Spatial Peak value of the SAR averaged over any 1 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

** The Spatial Average value of the SAR averaged over the whole body.

*** The Spatial Peak value of the SAR averaged over any 1 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time. Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. 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.)

1.3. Ratings and System Details

EUT Description	Mobile Phone
Model No.	RMX3630
Brand	realme
EUT Supports Radios application:	GSM850:TX 824MHz~849MHz PCS1900: TX 1850MHz~1910MHz WCDMA Band V: TX 824MHz~849MHz WCDMA Band IV: TX 1710MHz~1755MHz WCDMA Band II: TX 1850MHz~1910MHz LTE Band 2: TX 1850MHz~1910MHz LTE Band 4: TX 1710MHz~1755MHz LTE Band 5: TX 824MHz~849MHz LTE Band 7: TX 2500MHz~2570MHz LTE Band 12: TX 699MHz~716MHz LTE Band 13: TX 777MHz~787MHz LTE Band 17: TX 704MHz~716MHz LTE Band 38: TX 2570MHz~2620MHz LTE Band 41: TX 2535MHz~2655MHz LTE Band 66: TX 1710MHz~1780MHz 2.4GWiFi:2412MHz~2462MHz 5GWiFi: U-NII 1(5180~5240 MHz) U-NII 2A (5260~5320 MHz) U-NII 2C (5500~5700 MHz) U-NII 3(5745~5825 MHz) BT:2402MHz~2480MHz
Modulation Mode	GSM/GPRS/EGPRS AMR I RMC 12.2Kbps HSDPA HSUPA LTE: QPSK, 16QAM, 64QAM WLAN 2.4GHz : 802.11b/g/n HT20/HT40/VHT20/VHT40 WLAN 5GHz : 802.11a/n/ac HT20/HT40/VHT20/VHT40/VHT80

	Bluetooth BR/EDR/L E
Battery information	BLP957 4880mAh Typical: 5000mAh Li-ion Polymer Battery
Hardware version:	11
Software version:	realme UI V3.0
IMIE	863695060019893/01

1.4. Test specification(s)

FCC 47CFR Part 2(2.1093)	Radiofrequency Radiation Exposure Evaluation: Portable Devices
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
KDB 447498 D01v06	General RF Exposure Guidance No deviation
KDB 248227 D01v02r02	SAR Measurement Procedures for 802.11 Transmitters
KDB 865664 D01v01r04	SAR Measurement 100 MHz to 6 GHz
KDB 865664 D02v01r02	RF Exposure Reporting
KDB 648474 D04v01r03	Handset SAR
KDB 941225 D01v03r01	3G SAR MEAUREMENT PROCEDURES
KDB 941225 D05v02r05	SAR Evaluation Consideration for LTE Devices
KDB 941225 D06v02r01	SAR Evaluation Procedures For Portable Devices With Wireless Router Capabilities
<p>Note 1: The test item is not applicable.</p> <p>Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.</p>	

1.5.List of Test and Measurement Instruments

	Equipment	Model No.	Serial No.	Manufacturer	Last Calibration Date	Period
☒	SAR test system	TX60L	F08/5AY8A1/A/01+F08/	SPEAG	NCR	NCR
☒	Electronic Data Transmitter	DAE4	1636	SPEAG	2021.12.30	1year
☒	SAR Probe	EX3DV4	7623	SPEAG	2022.01.24	1year
☒	Software	85070	--	Agilent	--	--
☒	Software	DASY5	--	SPEAG	--	--
☒	System Validation Dipole,750MHz	D750V3	1103	SPEAG	2020.01.06	3year
☒	System Validation Dipole,835MHz	D835V2	4d141	SPEAG	2021.08.31	3year
☒	System Validation Dipole,900MHz	D900V2	1d077	SPEAG	2021.08.27	3year
☒	System Validation Dipole,1750MHz	D1750V2	1108	SPEAG	2020.01.03	3year
☒	System Validation Dipole,1900MHz	D1900V2	5d162	SPEAG	2021.09.01	3year
☒	System Validation Dipole,2450MHz	D2450V2	818	SPEAG	2021.08.26	3year
☒	System Validation Dipole,2600MHz	D2600V2	1074	SPEAG	2020.01.02	3year
☒	System Validation Dipole,5GHz	D5GzV2	1185	SPEAG	2019.12.31	3year
☒	Dielectric Probe Kit	85070E	MY44300455	Agilent	NCR	NCR
☒	Dual-directional coupler,0.10-2.0GHz	778D	MY48220198	Agilent	NCR	NCR
☒	Dual-directional coupler,2.00-18GHz	772D	MY46151160	Agilent	NCR	NCR
☒	Power Amplifier	ZVE-8G	SC280800926	MINI-CIRCUITS	NCR	NCR
☒	Power Amplifier	ZHL42W	81709	MINI-CIRCUITS	NCR	NCR
☒	Signal Generator	SMR20	100047	R&S	2022.02.19	1year

<input checked="" type="checkbox"/>	Power Sensor	NRP-Z21	102626	R&S	2022.05.13	1year
<input checked="" type="checkbox"/>	Power Sensor	NRP-Z21	102627	R&S	2022.05.13	1year
<input checked="" type="checkbox"/>	Call Tester	CMU 200	100110	R&S	2022.05.18	1year
<input checked="" type="checkbox"/>	Network Analyzer	E5071C	MY46109550	Agilent	2022.02.19	1Year
<input checked="" type="checkbox"/>	Flat Phantom	ELI4.0	TP-1904	SPEAG	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SAM	TP-1504	SPEAG	NCR	NCR
<input checked="" type="checkbox"/>	Wideband Radio Communication Tester	CMW500	125469	R&S	2022.05.18	1Year
<input checked="" type="checkbox"/>	Precision Thermometer	--	--	--	2022.06.20	1Year

Table 3: List of Test and Measurement Equipment

Note: All the test equipments are calibrated once a year, except the dipoles, which are calibrated every three years. Moreover, we have self-calibration every year to the dipoles.

2. GENERAL INFORMATION

2.1. Report information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

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2.2. Laboratory Accreditation and Relationship to Customer

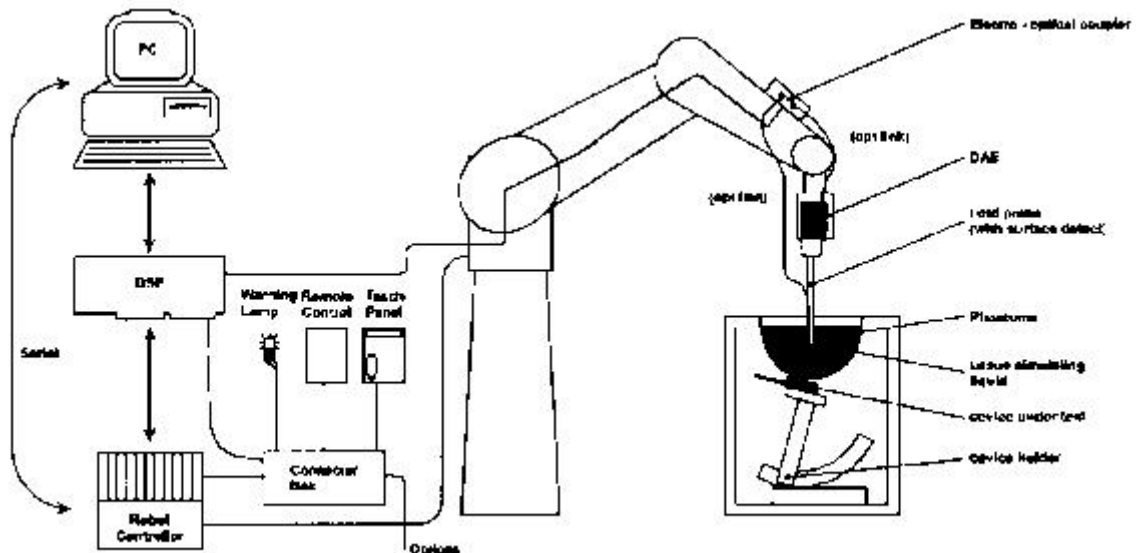
The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations: China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579. The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918. The Laboratory is registered to perform emission tests with Innovation, Science and

Economic Development (ISED), and the registration number is 11177A. The Laboratory is registered to perform emission tests with VCCI, and the registration numbers are C-20048, G20076, R-20077, R-20078, and T-20047.

The Laboratory is Accredited Testing Laboratory of American Association for Laboratory Accreditation (A2LA) and certificate number is 3292.01.

3. SAR MEASUREMENT SYSTEM CONFIGURATION

3.1. SAR Measurement Set-up



The DASY5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- A unit to operate the optical surface detector which is connected to the EOC.

- The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
- The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. • A computer operating Windows XP.
- DASY5 software and SEMCAD data evaluation software.


Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.


- The generic twin phantom enabling the testing of left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- System checks dipoles allowing validating the proper functioning of the system.
- Test environment
- The DASY5 measurement system is placed at the head end of a room with dimensions: 4.5 x 4 x 3 m³, the SAM phantom is placed in a distance of 1.3 m from the side walls and 1.1m from the rear wall.

Picture 1 of the photo documentation shows a complete view of the test environment.

3.2. Probe description

Isotropic E-Field Probe EX3DV4 for Dosimetric Measurements

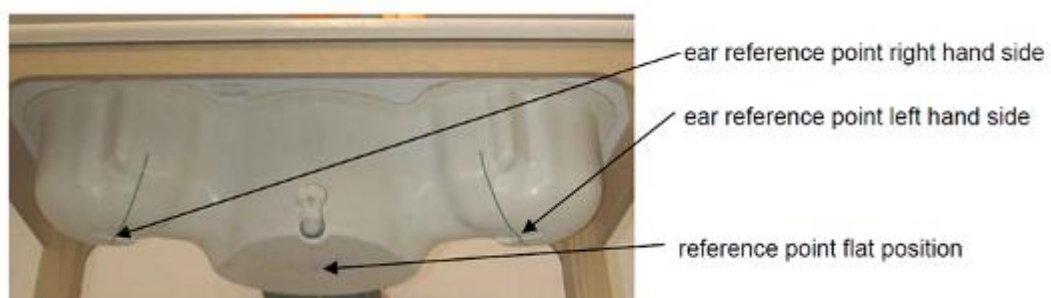
Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	ISO/IEC 17025 calibration service available.	
Frequency	10 MHz to >6 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 6 GHz)	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic range	10 µW/g to > 100 mW/g; Linearity: ± 0.2 dB (noise:	

	typically $1 \mu\text{W/g}$	
Dimensions	Overall length: 337 mm (Tip: 20mm) Tip length: 2.5 mm (Body: 12mm) Typical distance from probe tip to dipole centers: 1mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

3.3. Phantom description

The used SAM Phantom meets the requirements specified in Edition 01-01 of Supplement C to OET Bulletin 65 for Specific Absorption Rate (SAR) measurements.

The phantom consists of a fibreglass shell integrated in a wooden table. It allows left-hand and right-hand head as well as body-worn measurements with a maximum liquid depth of 18 cm in head position and 22 cm in planar position (body measurements). The thickness of the Phantom shell is 2 mm +/- 0.1 mm.





ELI4 Phantom

Shell Thickness	2mm+/- 0.2mm
Filling Volume	Approximately 30 liters
Measurement Areas	Flat phantom
The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209-2 and all known tissue simulating liquids.	

The phantom shell material is resistant to all ingredients used in the tissue-equivalent liquid recipes. The shell of the phantom including ear spacers is constructed from low permittivity and low loss material, with a relative permittivity ≤ 5 and a loss tangent ≤ 0.05 .

3.4. Device holder description

The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard



mobile phones or PDA's only. If necessary an additional support of polystyrene material is used.

Larger DUT's (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values.

Therefore those devices are normally only tested at the flat part of the SAM.

4. SAR MEASUREMENT PROCEDURE

4.1. Scanning procedure

- The DASY5 installation includes predefined files with recommended procedures for measurements and system check. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.
- The reference and drift measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT's output power and should vary max. +/- 5 %.
- The surface check measurement tests the optical surface detection system of the DASY5 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above $\pm 0.1\text{mm}$). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^\circ$.)
- The area scan measures the SAR above the DUT or verification dipole on a parallel plane to the surface. It is used to locate the approximate location of the peak SAR with 2D spline interpolation. The robot performs a stepped movement along one grid axis while the local electrical field strength is measured by the probe. The probe is touching the surface of the SAM during acquisition of measurement values. The standard scan uses large grid spacing for faster measurement. Standard grid spacing for head measurements is 15 mm in x- and y- dimension ($\leq 2\text{GHz}$), 12 mm in x- and y- dimension (2-4 GHz) and 10mm in x- and y- dimension (4-6GHz). If a finer resolution is needed, the grid spacing can be reduced. Grid spacing and orientation have no

influence on the SAR result. For special applications where the standard scan method does not find the peak SAR within the grid, e.g. mobile phones with flip cover, the grid can be adapted in orientation.

Results of this coarse scan are shown in Appendix B.

- A “zoom scan” measures the field in a volume around the 2D peak SAR value acquired in the previous “coarse” scan. This is a fine grid with maximum scan spatial resolution: Δx_{zoom} , $\Delta y_{zoom} \leq 2\text{GHz} \leq 8\text{ mm}$, $2\text{-}4\text{GHz} - \leq 5\text{ mm}$ and $4\text{-}6\text{ GHz} - \leq 4\text{ mm}$; $\Delta z_{zoom} \leq 3\text{GHz} - \leq 5\text{ mm}$, $3\text{-}4\text{ GHz} - \leq 4\text{ mm}$ and $4\text{-}6\text{GHz} - \leq 2\text{mm}$ where the robot additionally moves the probe along the z-axis away from the bottom of the Phantom. DASY5 is also able to perform repeated zoom scans if more than 1 peak is found during area scan. Test results relevant for the specified standard (see chapter 1.5.) are shown in table form in chapter 3.2.
- A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 2mm steps. This measurement shows the continuity of the liquid and can – depending in the field strength- also show the liquid depth. A z-axis scan of the measurement with maximum SAR value is shown in Appendix B.

The following table summarizes the area scan and zoom scan resolutions per FCC KDB 865664D01:

Frequency	Maximum Area Scan resolution ($\Delta x_{area}, \Delta y_{area}$)	Maximum Zoom Scan spatial resolution ($\Delta x_{zoom}, \Delta y_{zoom}$)	Maximum Zoom Scan spatial resolution			Minimum zoom scan volume (x,y,z)
			Uniform Grid	Graded Grad		
			$\Delta z_{zoom}(n)$	$\Delta z_{zoom}(1)$	$\Delta z_{zoom}(n>1)$	
$\leq 2\text{GHz}$	$\leq 15\text{mm}$	$\leq 8\text{mm}$	$\leq 5\text{mm}$	$\leq 4\text{mm}$	$\leq 1.5 * \Delta z_{zoom}(n-1)$	$\geq 30\text{mm}$
2-3GHz	$\leq 12\text{mm}$	$\leq 5\text{mm}$	$\leq 5\text{mm}$	$\leq 4\text{mm}$	$\leq 1.5 * \Delta z_{zoom}(n-1)$	$\geq 30\text{mm}$
3-4GHz	$\leq 10\text{mm}$	$\leq 5\text{mm}$	$\leq 4\text{mm}$	$\leq 3\text{mm}$	$\leq 1.5 * \Delta z_{zoom}(n-1)$	$\geq 28\text{mm}$
4-5GHz	$\leq 10\text{mm}$	$\leq 4\text{mm}$	$\leq 3\text{mm}$	$\leq 2.5\text{mm}$	$\leq 1.5 * \Delta z_{zoom}(n-1)$	$\geq 25\text{mm}$

5-6GHz	≤10mm	≤4mm	≤2mm	≤2mm	≤ 1.5*Δzzoom(n-1)	≥22mm
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Spatial Peak SAR Evaluation

- The spatial peak SAR - value for 1 and 10 g is evaluated after the Cube measurements have been done. The bases of the evaluation are the SAR values measured at the points of the fine cube grid consisting of 5 x 5 x 7 points (with 8mm horizontal resolution) or 7 x 7 x 7 points (with 5mm horizontal resolution).
- The algorithm that finds the maximal averaged volume is separated into three different stages.
- The data between the dipole center of the probe and the surface of the phantom are extrapolated. This data cannot be measured since the center of the dipole is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is about 1 mm (see probe calibration sheet). The extrapolated data from a cube measurement can be visualized by selecting 'Graph Evaluated'.
- The maximum interpolated value is searched with a straight-forward algorithm. Around this maximum the SAR - values averaged over the spatial volumes (1g or 10 g) are computed using the 3d-spline interpolation algorithm. If the volume cannot be evaluated (i.e., if a part of the grid was cut off by the boundary of the measurement area) the evaluation will be started on the corners of the bottom plane of the cube.
- All neighboring volumes are evaluated until no neighboring volume with a higher average value is found.
- Extrapolation
- The extrapolation is based on a least square algorithm [W. Gander, Computermathematik, p.168-180]. Through the points in the first 3 cm along the z-axis, polynomials of order four are calculated. These polynomials are then used to evaluate the points between the surface and the probe tip. The points, calculated from the surface, have a distance of 1 mm from each other.

Interpolation

- The interpolation of the points is done with a 3d-Spline. The 3d-Spline is composed of three one-dimensional splines with the "Not a knot"-condition [W. Gander, Computermathematik, p.141-150] (x, y and z -direction) [Numerical Recipes in C, Second Edition, p.123ff].
- Volume Averaging
- At First the size of the cube is calculated. Then the volume is integrated with the trapezoidal

algorithm. 8000 points (20x20x20) are interpolated to calculate the average.

- Advanced Extrapolation
- DASY5 uses the advanced extrapolation option which is able to compensate boundary effects on E-field probes.

6.1.1. Data Storage and Evaluation

Data Storage

The DASY5 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension DAE4. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
- Conversion factor	ConvFi	
- Diode compression point	Dcpi	
Device parameters:	- Frequency	f
- Crest factor	cf	
Media parameters:	- Conductivity	σ
- Density	ρ	

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY5 components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf/dcpi$$

with V_i = compensated signal of channel i ($i = x, y, z$)

U_i = input signal of channel i ($i = x, y, z$)

cf = crest factor of exciting field (DASY parameter)

$dcpi$ = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes: $E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$

H-field probes: $H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$

with V_i = compensated signal of channel i ($i = x, y, z$)

$Norm_i$ = sensor sensitivity of channel i ($i = x, y, z$)

[mV/(V/m)²] for E-field Probes

$ConvF$ = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

- f = carrier frequency [GHz]
- E_i = electric field strength of channel i in V/m
- H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (E_{tot}^2 \cdot \sigma) / (\rho \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

σ = conductivity in [mho/m] or [Siemens/m]

ρ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 \quad \text{or} \quad P_{pwe} = H_{tot}^2 \cdot 37.7$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m

7. SYSTEM VERIFICATION PROCEDURE

7.1. Tissue Verification

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 measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

The following materials are used for producing the tissue-equivalent materials

Ingredient (% by weight)	Head Tissue				
	750	835	1750	1900	2450
Water	34.4	41.45	52.64	55.24	62.7
Salt(NaCl)	0.79	1.45	0.36	0.306	0.5
Sugar	64.81	56.0	0.0	0.0	0.0
HEC	0.0	1.0	0.0	0.0	0.0
Bactericide	0.0	0.1	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0
DGBE	0.0	0.0	47.0	44.54	36.8

Table 4 : Tissue Dielectric Properties

Salt: 99+% Pure Sodium Chloride; Sugar: 98+% Pure Sucrose; Water: De-ionized, 16M Ω + resistivity

HEC: Hydroxyethyl Cellulose; DGBE: 99+% Di(ethylene glycol) butyl ether, [2-(2-butoxyethoxy)ethanol]

Triton X-100(ultra pure): Polyethylene glycol mono[4-(1,1,3,3-tetramethylbutyl)phenyl]ether

Tissue-equivalent liquid measurements:

f/MHz	Date Tested	Dielectric Parameters	Target	Tolerance (%)	Temp (°C)
750	2022.09.05	$\epsilon_r=41.99$	41.9 (39.81~44.00)	±5	20
		$\sigma=0.91$	0.89 (0.85~0.93)		
835	2022.09.06	$\epsilon_r =41.28$	41.5 (39.43~43.58)	±5	20
		$\sigma=0.90$	0.90 (0.86~0.95)		
		$\sigma=1.01$	0.97 (0.92~1.02)		
1750	2022.09.08	$\epsilon_r =40.69$	40.1 (38.10~42.11)	±5	20
		$\sigma=1.39$	1.37 (1.30~1.44)		
		$\sigma=1.37$	1.40 (1.33~1.47)		
1900	2022.09.10	$\epsilon_r =40.25$	40.0 (38.00~42.00)	±5	20
		$\sigma=1.35$	1.40 (1.33~1.47)		
		$\sigma=1.68$	1.67 (1.59~1.75)		
2450	2022.09.12	$\epsilon_r =39.94$	39.2 (37.24~41.16)	±5	20
		$\sigma=1.85$	1.80 (1.71~1.89)		
2600	2022.09.13	$\epsilon_r =39.54$	39.0 (37.05~40.95)	±5	20
		$\sigma=1.94$	1.96 (1.86~2.06)		
		$\sigma=3.37$	3.51 (3.33~3.69)		
5.25G	2022.09.18	$\epsilon_r =35.62$	36.0	±5	20

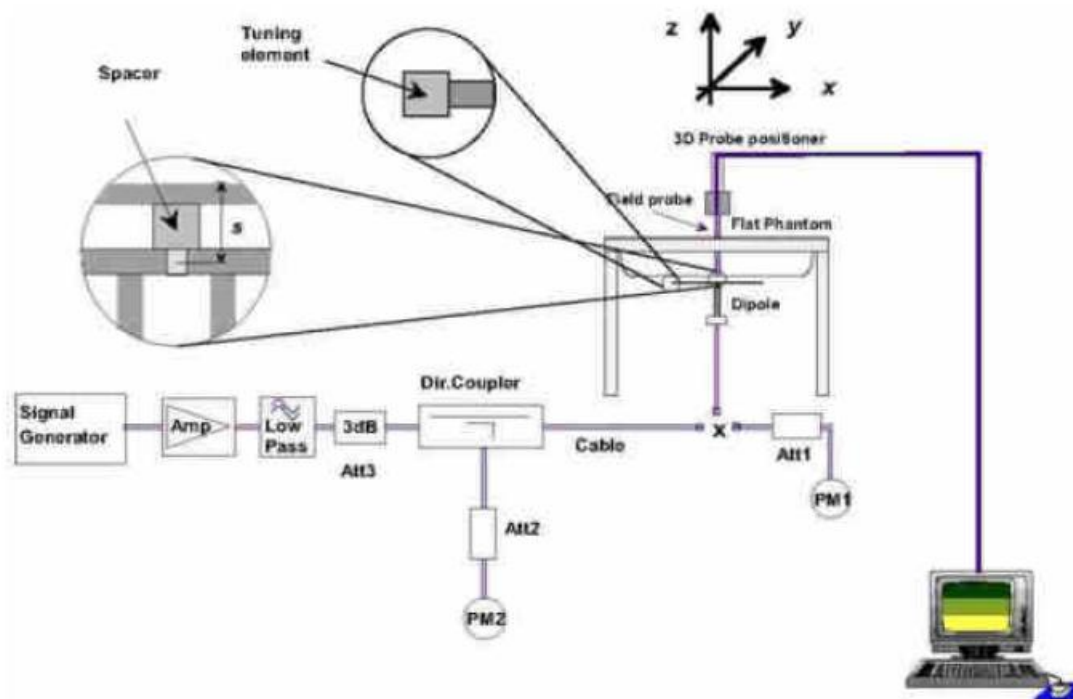
			(34.20~37.80)		
		$\sigma=4.62$	4.66 (4.43~4.89)		
5.5G	2022.09.18	$\epsilon_r = 34.84$	35.5 (33.82~37.38)	± 5	20
		$\sigma=5.19$	5.07 (4.71~5.21)		
5.75G	2022.09.18	$\epsilon_r = 35.61$	35.3 (33.54~37.07)	± 5	20
		$\sigma=5.26$	5.27 (5.01~5.53)		

System check, Tissue-equivalent liquid:

f/MHz	Date Tested	power (mW)	SAR(W/kg), 1g	SAR(W/kg), 10g	Target 1g	Target 10g	Tolerance (%)	Temp (°C)
750	2022.09.05	250	8.80	5.80	8.66 (7.80 ~9.52)	5.83 (5.25 ~6.41)	±10	20
835	2022.09.06	250	9.04	6.00	9.58 (8.63 ~10.53)	6.19 (5.58 ~6.80)	±10	20
1750	2022.09.08	250	36.20	19.16	35.70 (32.13 ~39.27)	18.80 (16.92 ~20.68)	±10	20
1900	2022.09.10	250	39.28	20.08	39.70 (35.73 ~43.67)	20.20 (18.18 ~22.22)	±10	20
2450	2022.09.12	250	51.20	23.64	52.20 (46.98 ~57.42)	23.80 (21.42 ~26.18)	±10	20
2600	2022.09.13	250	57.20	25.52	56.90 (51.21 ~62.59)	25.20 (22.68 ~27.72)	±10	20
5.25 G	2022.09.18	100	75.10	21.80	76.50 (68.85 ~84.15)	21.80 (19.62 ~23.98)	±10	20
5.6G	2022.09.18	100	78.80	22.50	80.20 (72.18 ~88.22)	22.80 (20.52 ~25.08)	±10	20
5.75 G	2022.09.18	100	80.00	22.40	78.20 (70.38 ~86.02)	22.20 (19.98 ~24.42)	±10	20

System Checking

The manufacturer calibrates the probes annually. A system check measurement was made following the determination of the dielectric parameters of the tissue-equivalent liquid, using the dipole validation kit. A power level was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom.



The system checking results (dielectric parameters and SAR values) are given in the table below.

The system check is performed for verifying the accuracy of the complete measurement system and performance of the software. The system check is performed with tissue equivalent material according to IEEE P1528 (described above). The following table shows system check results for all frequency bands and tissue liquids used during the tests (Graphic Plot(s) see Appendix A).

8. SAR MEASUREMENT VARIABILITY AND UNCERTAINTY

8.1. SAR measurement variability

Per KDB865664 D01 SAR measurement 100MHz to 6GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurement 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.

- 1) Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg; step2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.8 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($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is >1.20 .

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

8.2. SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100MHz to 6GHz v01r03, when the highest measured 1-g SAR within a frequency band is <1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2003 is not required in SAR reports submitted for equipment approval. The equivalent ratio(1.5/1.6) is applied to

extremity and occupational exposure conditions.

9. Test Configuration

The DUT is tested using a CMU 200 or E5515C communications tester as controller unit to set test channels and maximum output power to the DUT, as well as for measuring the conducted peak power.

Test positions as described in the tables above are in accordance with the specified test standard.

GSM Test Configuration

SAR tests for GSM 850 and PCS 1900, a communication link is set up with a System Simulator (SS) by air link. Using CMU 200 or E5515C the power level is set to “5” for GSM 850, set to “0” for PCS 1900. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 5.

According to specification 3GPP TS 51.010, the maximum power of the GSM can do the power reduction for the multi-slot. The allowed power reduction in the multi-slot configuration is as following:

Output power of reductions:

Number of timeslots in uplink assignment	Permissible nominal reduction of maximum output power,(dB)
1	0
2	0 to 3,0
3	1,8 to 4,8
4	3,0 to 6,0

WCDMA Test Configuration

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

	Mode	Rel99
	Subtest	---

WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	β_c / β_d	8/15

Handsets with Release 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures in the “Release 5 HSDPA Data Devices” section of this document, for the highest reported SAR body-worn accessory exposure configuration in 12.2 kbps RMC. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

HSDPA should be configured according to the UE category of a test device. The number of HSDSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) should be set according to values indicated in the Table below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (note 1, note 2)	CM(dB) (note 3)	MPR(dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (note 4)	15/15 (note 4)	64	12/15 (note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8$ $\beta_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
Note2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.
Note3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TFC1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

HSUPA Test Configuration

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC)

body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures in the “Release 6 HSPA Data Devices” section of this document, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When VOIP is applicable for next to the ear head exposure in HSPA, the 3G SAR test reduction procedure is applied to HSPA with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body-worn accessory measurements is tested for next to the ear head exposure.

Due to inner loop power control requirements in HSPA, a communication test set is required for output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA are configured according to the β values indicated in Table 2 and other applicable procedures described in the ‘WCDMA Handset’ and ‘Release 5 HSDPA Data Devices’ sections of this document

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81
<p>Note 1: $\Delta_{ACK}, \Delta_{NACK}$ and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.</p> <p>Note 2: 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.</p> <p>Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF1) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.</p> <p>Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.</p> <p>Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Figure 5.1g.</p> <p>Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.</p>													

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI (ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	2	2 SF2 & 2 SF4	11484	5.76
	4	4	10		20000	2.00
7 (No DPDCH)	4	8	2	2 SF2 & 2 SF4	22996	?
	4	4	10		20000	?
NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE Categories 1 to 6 supports QPSK only. UE Category 7 supports QPSK and 16QAM. (TS25.306-7.3.0)						

HSPA, HSPA+ and DC-HSDPA Test Configuration

measurement is required for HSPA, HSPA+ or DC-HSDPA, a KDB inquiry is required to confirm that the wireless mode configurations in the test setup have remained stable throughout the SAR measurements.³⁵ Without prior KDB confirmation to determine the SAR results are acceptable, a PBA is required for TCB approval. SAR test exclusion for HSPA, HSPA+ and DC-HSDPA is determined according to the following:

- 1) The HSPA procedures are applied to configure 3GPP Rel. 6 HSPA devices in the required Sub-test mode(s) to determine SAR test exclusion.
- 2) SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (Up antenna) HSPA+ with 12.2 kbps RMC as the primary mode.³⁶ Power is measured for HSPA+ that supports Up antenna 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.
- 3) 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 TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be

acceptable.

4) Regardless of whether a PBA is required, the following information must be verified and included in the SAR report for devices supporting HSPA, HSPA+ or DC-HSDPA: a) The output power measurement results and applicable release version(s) of 3GPP TS 34.121.

i) Power measurement difficulties due to test equipment setup or availability must be resolved between the grantee and its test lab.

b) The power measurement results are in agreement with the individual device implementation and specifications. When Enhanced MPR (E-MPR) applies, the normal MPR targets may be modified according to the Cubic Metric (CM) measured by the device, which must be taken into consideration.

c) The UE category, operating parameters, such as the β and Δ values used to configure the device for testing, power setback procedures described in 3GPP TS 34.121 for the power measurements, and HSPA/HSPA+ channel conditions (active and stable) for the entire duration of the measurement according to the required E-TFCl and AG index values.

5) When SAR measurement is required, the test configurations, procedures and power measurement results must be clearly described to confirm that the required test parameters are used, including E-TFCl and AG index stability and output power conditions.

HS-DSCH category	Maximum number of HS-DSCH codes received	Minimum inter-TTI interval	Maximum number of bits of an HS-DSCH transport block received within an HS-DSCH TTI NOTE 1	Total number of soft channel bits	Supported modulations without MIMO operation or dual cell operation	Supported modulations with MIMO operation and without dual cell operation	Supported modulations with dual cell operation	
Category 1	5	3	7298	19200	QPSK, 16QAM	Not applicable (MIMO not supported)	Not applicable (dual cell operation not supported)	
Category 2	5	3	7298	28800				
Category 3	5	2	7298	28800				
Category 4	5	2	7298	38400				
Category 5	5	1	7298	57600				
Category 6	5	1	7298	67200				
Category 7	10	1	14411	115200				
Category 8	10	1	14411	134400				
Category 9	15	1	20251	172800				
Category 10	15	1	27952	172800				
Category 11	5	2	3630	14400				QPSK
Category 12	5	1	3630	28800				QPSK, 16QAM, 64QAM
Category 13	15	1	35280	259200				QPSK, 16QAM
Category 14	15	1	42192	259200				QPSK, 16QAM
Category 15	15	1	23370	345600	QPSK, 16QAM	Not applicable (dual cell operation not supported)		
Category 16	15	1	27952	345600	QPSK, 16QAM			
Category 17 NOTE 2	15	1	35280	259200	QPSK, 16QAM, 64QAM		-	
			23370	345600	-		QPSK, 16QAM	
Category 18 NOTE 3	15	1	42192	259200	QPSK, 16QAM, 64QAM		-	
			27952	345600	-		QPSK, 16QAM	
Category 19	15	1	35280	518400	QPSK, 16QAM, 64QAM		Not applicable (dual cell operation not supported)	
Category 20	15	1	42192	518400				
Category 21	15	1	23370	345600	-			
Category 22	15	1	27952	345600				
Category 23	15	1	35280	518400	-			
Category 24	15	1	42192	518400				

LTE Test Configuration

SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02r05. The CMW500 WideBand Radio Communication Tester was 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 test were performed with the same number of RB and RB offsets transmitting on all TTI frames (Maximum TTI)

1) Spectrum Plots for RB configurations

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

2) MPR

When MPR is implemented permanently within the UE, regardless of network

requirements, only those RB configurations allowed by 3GPP for the channel bandwidth and modulation combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR. The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101:

Maximun Power Reduction(MRP) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth(N_{RB})						MPR(dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	>5	>4	>8	>12	>16	>18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	>5	>4	>8	>12	>16	>18	≤ 2

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	$6592 T_S$	$2192 T_S$	$2560 T_S$	$7680 T_S$	$2192 T_S$	$2560 T_S$
1	$19760 T_S$			$20480 T_S$		
2	$21952 T_S$			$23040 T_S$		
3	$24144 T_S$			$25600 T_S$		
4	$26336 T_S$			$7680 T_S$		
5	$6592 T_S$	$4384 T_S$	$5120 T_S$	$20480 T_S$	$4384 T_S$	$5120 T_S$
6	$19760 T_S$			$23040 T_S$		
7	$21952 T_S$			$12800 T_S$		

8	$24144 T_S$			-	-	-
9	$13168 T_S$			-	-	-

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 x (T_S) x # of S + # of U

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

Calculated Duty Cycle = $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$

Where $T_S = 1/(15000 \times 2048)$ seconds

LTE Test Configuration

SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02r05. The CMW500 WideBand Radio Communication Tester was 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 test were performed with the same number of RB and RB offsets transmitting on all TTI frames (Maximum TTI)

1) Spectrum Plots for RB configurations

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

2) MPR

When MPR is implemented permanently within the UE, regardless of network requirements, only those RB configurations allowed by 3GPP for the channel bandwidth

and modulation combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR. The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101:

Maximun Power Reduction(MRP) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth(N_{RB})						MPR(dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	>5	>4	>8	>12	>16	>18	≤1
16 QAM	≤5	≤4	≤8	≤12	≤16	≤18	≤1
64 QAM	>5	>4	>8	>12	>16	>18	≤2

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 T_S	2192 T_S	2560 T_S	7680 T_S	2192 T_S	2560 T_S
1	19760 T_S			20480 T_S		
2	21952 T_S			23040 T_S		
3	24144 T_S			25600 T_S		
4	26336 T_S	4384 T_S	5120 T_S	7680 T_S	4384 T_S	5120 T_S
5	6592 T_S			20480 T_S		
6	19760 T_S			23040 T_S		
7	21952 T_S			12800		

			T_s		
8	$24144 T_s$		-	-	-
9	$13168 T_s$		-	-	-

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 x (Ts) x # of S + # of U

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

Calculated Duty Cycle = $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$

Where Ts = $1/(15000 \times 2048)$ seconds

3) A-MPR

A-MPR(Additional MPR) has been disabled for all SAR tests by using Network Signalling Value of "NS_01" on the base station simulator.

4) LTE procedures for SAR testing

A) Largest channel bandwidth standalone SAR test requirements

i) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is $\leq 0.8\text{W/kg}$, testing of the remaining RB offset configurations and required test channels is not required for 1RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is $> 1.45 \text{ W/kg}$, SAR is required for all three RB offset configurations for that required test channel.

ii) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in i) are applied to measure the SAR for QPSK with 50% RB allocation.

iii) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in i) and ii) 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.

iv) Higher order modulations

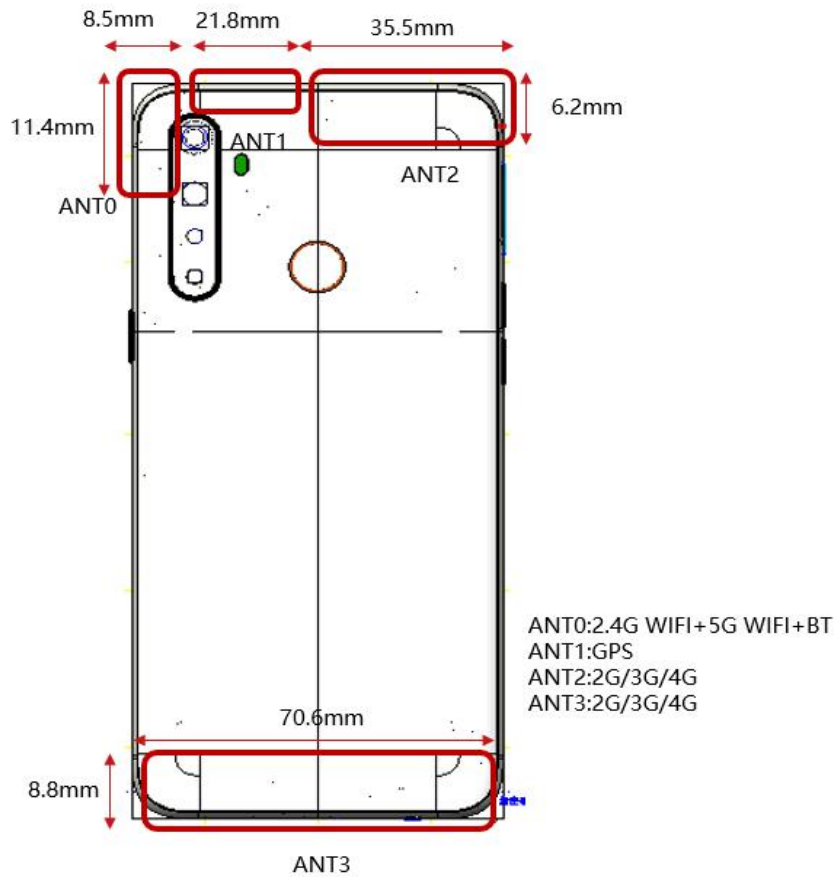
For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

B) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

10. TEST RESULTS

10.1. EUT Antenna Locations



The WWLAN part of this product has two antennas. It only supports single transmission, but does not support MIMO.

ANT0	TX/RX WIFI 2.4G/5G Bluetooth
ANT1	GPS
ANT2	TX/RX :GSM850/1900 WCDMA2/4/5 LTE 2/4/5/7/12/13/17/38/41/66
ANT3	TX/RX :GSM850/1900 WCDMA2/4/5 LTE 2/4/5/7/12/13/17/38/41/66

11. TUNE-UP LIMIT

11.1. Tune-up Limit

Band	GSM 850 Original Tune up	GSM 850 Head reduce power tune up (ANT2)	GSM 850 Body reduce power tune up (ANT2)	GSM 850 Body reduce power tune up (ANT3)	GSM 850 Head Simultaneou power tune up (ANT2)	GSM 850 Body Simultaneou power tune up (ANT2)	GSM 850 Body Simultaneou power tune up (ANT3)	unit
GPRS/GSM (GMSK, 1 Tx slot)	32.5 [-1.0~+1. 0]	28.5 [-1.0~+1. 0]	30.5 [-1.0~+1. 0]	31.5 [-1.0~+1. 0]	27.5 [-1.0~+1. 0]	29.5 [-1.0~+1. 0]	30.5 [-1.0~+1. 0]	dBm
GPRS/GSM(GMSK,2Tx slots)	31.0 [-1.0~+1. 0]	27.5 [-1.0~+1. 0]	29.5 [-1.0~+1. 0]	30.5 [-1.0~+1. 0]	26.5 [-1.0~+1. 0]	28.5 [-1.0~+1. 0]	29.5 [-1.0~+1. 0]	dBm
GPRS/GSM(GMSK,3Tx slots)	29.5 [-1.0~+1. 0]	25.5 [-1.0~+1. 0]	26.5 [-1.0~+1. 0]	27.5 [-1.0~+1. 0]	24.5 [-1.0~+1. 0]	26.5 [-1.0~+1. 0]	26.5 [-1.0~+1. 0]	dBm
GPRS/GSM (GMSK,4Tx slots)	28.0 [-1.0~+1. 0]	24.0 [-1.0~+1. 0]	26.0 [-1.0~+1. 0]	27.0 [-1.0~+1. 0]	23.0 [-1.0~+1. 0]	25.0 [-1.0~+1. 0]	26.0 [-1.0~+1. 0]	dBm
EDGE (8PSK, 1 Tx slot)	27.5 [-1.0~+1. 0]	23.5 [-1.0~+1. 0]	25.5 [-1.0~+1. 0]	26.5 [-1.0~+1. 0]	22.5 [-1.0~+1. 0]	24.5 [-1.0~+1. 0]	25.5 [-1.0~+1. 0]	dBm
EDGE (8PSK, 2 Tx slots)	25.5 [-1.0~+1. 0]	21.5 [-1.0~+1. 0]	23.5 [-1.0~+1. 0]	24.5 [-1.0~+1. 0]	20.5 [-1.0~+1. 0]	22.5 [-1.0~+1. 0]	23.5 [-1.0~+1. 0]	dBm
EDGE (8PSK, 3 Tx slots)	23.5 [-1.0~+1. 0]	19.5 [-1.0~+1. 0]	21.5 [-1.0~+1. 0]	22.5 [-1.0~+1. 0]	18.5 [-1.0~+1. 0]	20.5 [-1.0~+1. 0]	21.5 [-1.0~+1. 0]	dBm
EDGE (8PSK, 4 Tx slots)	22.5 [-1.0~+1. 0]	18.5 [-1.0~+1. 0]	20.5 [-1.0~+1. 0]	21.5 [-1.0~+1. 0]	17.5 [-1.0~+1. 0]	19.5 [-1.0~+1. 0]	20.5 [-1.0~+1. 0]	dBm

Band	GSM 1900 Original Tune up	GSM 1900 Head reduce power tune up (ANT2)	GSM 1900 Body reduce power tune up (ANT2)	GSM 1900 Body reduce power tune up (ANT3)	GSM 1900 Head Simultaneous power tune up (ANT2)	GSM 1900 Body Simultaneous power tune up (ANT2)	GSM 1900 Body Simultaneous power tune up (ANT3)	unit
GPRS/GSM (GMSK, 1 Tx slot)	29.5 [-1.0~+1. 0]	25.0 [-1.0~+1. 0]	26.5 [-1.0~+1. 0]	27.5 [-1.0~+1. 0]	24.0 [-1.0~+1. 0]	25.5 [-1.0~+1. 0]	26.5 [-1.0~+1. 0]	dBm
GPRS/GSM(GMSK,2Tx slots)	27.5 [-1.0~+1. 0]	23.0 [-1.0~+1. 0]	24.5 [-1.0~+1. 0]	25.5 [-1.0~+1. 0]	22.0 [-1.0~+1. 0]	23.5 [-1.0~+1. 0]	24.5 [-1.0~+1. 0]	dBm
GPRS/GSM(GMSK,3Tx slots)	26.5 [-1.0~+1. 0]	22.0 [-1.0~+1. 0]	23.5 [-1.0~+1. 0]	24.5 [-1.0~+1. 0]	21.0 [-1.0~+1. 0]	22.5 [-1.0~+1. 0]	23.5 [-1.0~+1. 0]	dBm
GPRS/GSM (GMSK,4Tx slots)	24.5 [-1.0~+1. 0]	20.5 [-1.0~+1. 0]	21.5 [-1.0~+1. 0]	22.5 [-1.0~+1. 0]	19.5 [-1.0~+1. 0]	20.5 [-1.0~+1. 0]	21.5 [-1.0~+1. 0]	dBm
EDGE (8PSK, 1 Tx slot)	27.0 [-1.0~+1. 0]	22.5 [-1.0~+1. 0]	24.0 [-1.0~+1. 0]	25.0 [-1.0~+1. 0]	21.5 [-1.0~+1. 0]	23.0 [-1.0~+1. 0]	24.0 [-1.0~+1. 0]	dBm
EDGE (8PSK, 2 Tx slots)	24.0 [-1.0~+1. 0]	19.5 [-1.0~+1. 0]	21.0 [-1.0~+1. 0]	22.0 [-1.0~+1. 0]	18.5 [-1.0~+1. 0]	20.0 [-1.0~+1. 0]	21.0 [-1.0~+1. 0]	dBm
EDGE (8PSK, 3 Tx slots)	22.0 [-1.0~+1. 0]	17.5 [-1.0~+1. 0]	19.0 [-1.0~+1. 0]	20.0 [-1.0~+1. 0]	16.5 [-1.0~+1. 0]	18.0 [-1.0~+1. 0]	19.0 [-1.0~+1. 0]	dBm
EDGE (8PSK, 4 Tx slots)	21.5 [-1.0~+1. 0]	17.0 [-1.0~+1. 0]	18.5 [-1.0~+1. 0]	19.5 [-1.0~+1. 0]	16.0 [-1.0~+1. 0]	17.5 [-1.0~+1. 0]	18.5 [-1.0~+1. 0]	dBm

Band		WCDMA Band II Original Tune up	WCDMA Band II Head reduce power tune up (ANT2)	WCDMA Band II Body reduce power tune up (ANT2)	WCDMA Band II Body reduce power tune up (ANT3)	WCDMA Band II Head Simultaneou power tune up (ANT2)	WCDMA Band II Body Simultaneou power tune up (ANT2)	WCDMA Band II Body Simultaneou power tune up (ANT3)	unit
RMC		23.0 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	21.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	dBm
HS DP A	Sub test 1	23.0 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	21.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	dBm
	Sub test 2	23.0 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	21.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	dBm
	Sub test 3	23.0 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	21.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	dBm
	Sub test 4	23.0 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	21.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	dBm
HS UP A	Sub test 1	22.0 [-1.0~+ 1.0]	17.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	16.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	dBm
	Sub test 2	22.0 [-1.0~+ 1.0]	17.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	16.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	dBm
	Sub test 3	23.0 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	21.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	dBm
	Sub test 4	21.0 [-1.0~+ 1.0]	16.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	15.0 [-1.0~+1 .0]	16.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	dBm
	Sub test 5	23.0 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	21.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	dBm

Band		WCDMA Band IV Original Tune up	WCDMA Band IV Head reduce power tune up (ANT2)	WCDMA Band IV Body reduce power tune up (ANT2)	WCDMA BandIV Body reduce power tune up (ANT3)	WCDMA Band IV Head Simultaneous power tune up (ANT2)	WCDMA Band IV Body Simultaneous power tune up (ANT2)	WCDMA Band IV Body Simultaneous power tune up (ANT3)	unit
RMC		23.0 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	dBm
HS DP A	Sub test 1	23.0 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	dBm
	Sub test 2	23.0 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	dBm
	Sub test 3	23.0 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	dBm
	Sub test 4	23.0 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	dBm
HS UP A	Sub test 1	22.0 [-1.0~+ 1.0]	17.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	16.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	dBm
	Sub test 2	22.0 [-1.0~+ 1.0]	17.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	16.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	dBm
	Sub test 3	23.0 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	dBm
	Sub test 4	21.0 [-1.0~+ 1.0]	16.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	15.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	dBm
	Sub test 5	22.5 [-1.0~+ 1.0]	17.5 [-1.0~+1 .0]	19.5 [-1.0~+1 .0]	19.5 [-1.0~+1 .0]	16.5 [-1.0~+1 .0]	18.5 [-1.0~+1 .0]	18.5 [-1.0~+1 .0]	dBm

Band		WCDMA Band V Original Tune up	WCDMA Band V Head reduce power tune up (ANT2)	WCDMA Band V Body reduce power tune up (ANT2)	WCDMA Band V Body reduce power tune up (ANT3)	WCDMA Band VHead Simultaneous power tune up (ANT2)	WCDMA Band V Body Simultaneous power tune up (ANT2)	WCDMA Band V Body Simultaneous power tune up (ANT3)	unit
RMC		23.5 [-1.0~+ 1.0]	20.0 [-1.0~+1 .0]	22.5 [-1.0~+1 .0]	22.5 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	21.5 [-1.0~+1 .0]	21.5 [-1.0~+1 .0]	dBm
HS DP A	Sub test 1	23.5 [-1.0~+ 1.0]	20.0 [-1.0~+1 .0]	22.5 [-1.0~+1 .0]	22.5 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	21.5 [-1.0~+1 .0]	21.5 [-1.0~+1 .0]	dBm
	Sub test 2	22.5 [-1.0~+ 1.0]	19.0 [-1.0~+1 .0]	21.5 [-1.0~+1 .0]	21.5 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	20.5 [-1.0~+1 .0]	20.5 [-1.0~+1 .0]	dBm
	Sub test 3	22.5 [-1.0~+ 1.0]	19.0 [-1.0~+1 .0]	21.5 [-1.0~+1 .0]	21.5 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	20.5 [-1.0~+1 .0]	20.5 [-1.0~+1 .0]	dBm
	Sub test 4	22.5 [-1.0~+ 1.0]	19.0 [-1.0~+1 .0]	21.5 [-1.0~+1 .0]	21.5 [-1.0~+1 .0]	18.0 [-1.0~+1 .0]	20.5 [-1.0~+1 .0]	20.5 [-1.0~+1 .0]	dBm
HS UP A	Sub test 1	21.5 [-1.0~+ 1.0]	18.0 [-1.0~+1 .0]	20.5 [-1.0~+1 .0]	20.5 [-1.0~+1 .0]	17.0 [-1.0~+1 .0]	19.5 [-1.0~+1 .0]	19.5 [-1.0~+1 .0]	dBm
	Sub test 2	21.0 [-1.0~+ 1.0]	17.5 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	16.5 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	dBm
	Sub test 3	22.0 [-1.0~+ 1.0]	18.5 [-1.0~+1 .0]	21.0 [-1.0~+1 .0]	21.0 [-1.0~+1 .0]	17.5 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	dBm
	Sub test 4	21.0 [-1.0~+ 1.0]	17.5 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	16.5 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	19.0 [-1.0~+1 .0]	dBm
	Sub test 5	22.0 [-1.0~+ 1.0]	18.5 [-1.0~+1 .0]	21.0 [-1.0~+1 .0]	21.0 [-1.0~+1 .0]	17.5 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	20.0 [-1.0~+1 .0]	dBm

The LTE Band 2 power adjust procedure

LTE Band 2	Original Tune up	Head reduce power tune up (ANT2)	Body reduce power tune up (ANT2)	Body reduce power tune up (ANT3)	Head Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT3)	unit
1.4/3/5/10/15/20 MHz QPSK	22.5[-2.0~+1.0]	15.5[-2.0~+1.0]	18.5[-2.0~+1.0]	20.5[-2.0~+1.0]	14.5[-2.0~+1.0]	17.5[-2.0~+1.0]	19.5[-2.0~+1.0]	dBm
1.4/3/5/10/15/20 MHz 16QAM	21.5[-2.0~+1.0]	14.5[-2.0~+1.0]	17.5[-2.0~+1.0]	19.5[-2.0~+1.0]	13.5[-2.0~+1.0]	16.5[-2.0~+1.0]	18.5[-2.0~+1.0]	dBm
1.4/3/5/10/15/20 MHz 64QAM	20.5[-2.0~+1.0]	13.5[-2.0~+1.0]	16.5[-2.0~+1.0]	18.5[-2.0~+1.0]	12.5[-2.0~+1.0]	15.5[-2.0~+1.0]	17.5[-2.0~+1.0]	dBm

The LTE Band 4 power adjust procedure

LTE Band 4	Original Tune up	Head reduce power tune up (ANT2)	Body reduce power tune up (ANT2)	Body reduce power tune up (ANT3)	Head Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT3)	unit
1.4/3/5/10/15/20 MHz QPSK	22.5[-2.0~+1.0]	17.5[-2.0~+1.0]	19.5[-2.0~+1.0]	19.5[-2.0~+1.0]	16.5[-2.0~+1.0]	18.5[-2.0~+1.0]	18.5[-2.0~+1.0]	dBm
1.4/3/5/10/15/20 MHz 16QAM	21.5[-2.0~+1.0]	16.5[-2.0~+1.0]	18.5[-2.0~+1.0]	18.5[-2.0~+1.0]	15.5[-2.0~+1.0]	17.5[-2.0~+1.0]	17.5[-2.0~+1.0]	dBm
1.4/3/5/10/15/20 MHz 64QAM	20.5[-2.0~+1.0]	15.5[-2.0~+1.0]	17.5[-2.0~+1.0]	17.5[-2.0~+1.0]	14.5[-2.0~+1.0]	16.5[-2.0~+1.0]	16.5[-2.0~+1.0]	dBm

The LTE Band 5 power adjust procedure

LTE Band 5	Original Tune up	Head reduce power tune up (ANT2)	Body reduce power tune up (ANT2)	Body reduce power tune up (ANT3)	Head Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT3)	unit
1.4/3/5/10 MHz QPSK	23.5[-2.0~+1.0]	20.0[-2.0~+1.0]	22.5[-2.0~+1.0]	22.5[-2.0~+1.0]	19.0[-2.0~+1.0]	21.5[-2.0~+1.0]	21.5[-2.0~+1.0]	dBm
1.4/3/5/10 MHz 16QAM	22.5[-2.0~+1.0]	19.0[-2.0~+1.0]	21.5[-2.0~+1.0]	21.5[-2.0~+1.0]	18.0[-2.0~+1.0]	20.5[-2.0~+1.0]	20.5[-2.0~+1.0]	dBm
1.4/3/5/10/15/20 MHz 64QAM	21.5[-2.0~+1.0]	18.0[-2.0~+1.0]	20.5[-2.0~+1.0]	20.5[-2.0~+1.0]	17.0[-2.0~+1.0]	19.5[-2.0~+1.0]	19.5[-2.0~+1.0]	dBm

The LTE Band 7 power adjust procedure

LTE Band 7	Original Tune up	Head reduce power tune up (ANT2)	Body reduce power tune up (ANT2)	Body reduce power tune up (ANT3)	Head Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT3)	unit
1.4/3/5/10/15/20 MHz QPSK	22.5[-2.0~+1.0]	11.5[-2.0~+1.0]	14.5[-2.0~+1.0]	20.5[-2.0~+1.0]	10.5[-2.0~+1.0]	13.5[-2.0~+1.0]	19.5[-2.0~+1.0]	dBm
1.4/3/5/10/15/20 MHz 16QAM	21.5[-2.0~+1.0]	10.5[-2.0~+1.0]	13.5[-2.0~+1.0]	19.5[-2.0~+1.0]	9.5[-2.0~+1.0]	12.5[-2.0~+1.0]	18.5[-2.0~+1.0]	dBm
1.4/3/5/10/15/20 MHz 64QAM	20.5[-2.0~+1.0]	9.5[-2.0~+1.0]	12.5[-2.0~+1.0]	18.5[-2.0~+1.0]	8.5[-2.0~+1.0]	10.5[-2.0~+1.0]	17.5[-2.0~+1.0]	dBm

The LTE Band 12 power adjust procedure

LTE Band 12	Original Tune up	unit
5/10 MHz QPSK	23.5[-2.0~+1.0]	dBm
5/10 MHz 16QAM	22.5[-2.0~+1.0]	dBm
5/10 MHz 64QAM	21.5[-2.0~+1.0]	dBm

The LTE Band 13 power adjust procedure

LTE Band 13	Original Tune up	unit
5/10 MHz QPSK	23.5[-2.0~+1.0]	dBm
5/10 MHz 16QAM	22.5[-2.0~+1.0]	dBm
5/10 MHz 64QAM	21.5[-2.0~+1.0]	dBm

The LTE Band 17 power adjust procedure

LTE Band 17	Original Tune up	unit
5/10 MHz QPSK	23.5[-2.0~+1.0]	dBm
5/10 MHz 16QAM	22.5[-2.0~+1.0]	dBm
5/10 MHz 64QAM	21.5[-2.0~+1.0]	dBm

The LTE Band 66 power adjust procedure

LTE Band 66	Original Tune up	Head reduce power tune up (ANT2)	Body reduce power tune up (ANT2)	Body reduce power tune up (ANT3)	Head Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT3)	unit
1.4/3/5/10/15/20 MHz QPSK	23.0[-2.0~+1.0]	18.0[-2.0~+1.0]	20.0[-2.0~+1.0]	21.0[-2.0~+1.0]	17.0[-2.0~+1.0]	19.0[-2.0~+1.0]	20.0[-2.0~+1.0]	dBm
1.4/3/5/10/15/20 MHz 16QAM	22.0[-2.0~+1.0]	17.0[-2.0~+1.0]	19.0[-2.0~+1.0]	20.0[-2.0~+1.0]	16.0[-2.0~+1.0]	18.0[-2.0~+1.0]	19.0[-2.0~+1.0]	dBm
1.4/3/5/10/15/20 MHz 64QAM	21.0[-2.0~+1.0]	16.0[-2.0~+1.0]	18.0[-2.0~+1.0]	19.0[-2.0~+1.0]	15.0[-2.0~+1.0]	17.0[-2.0~+1.0]	18.0[-2.0~+1.0]	dBm

The LTE Band 38 power adjust procedure

LTE Band 38	Original Tune up	Head reduce power tune up (ANT2)	Body reduce power tune up (ANT2)	Body reduce power tune up (ANT3)	Head Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT3)	unit
1.4/3/5/10/15/20 MHz QPSK	23.0[-2.0~+1.0]	15.5[-2.0~+1.0]	17.0[-2.0~+1.0]	20.0[-2.0~+1.0]	14.5[-2.0~+1.0]	17.0[-2.0~+1.0]	19.0[-2.0~+1.0]	dBm
1.4/3/5/10/15/20 MHz 16QAM	22.0[-2.0~+1.0]	14.5[-2.0~+1.0]	16.0[-2.0~+1.0]	19.0[-2.0~+1.0]	13.5[-2.0~+1.0]	16.0[-2.0~+1.0]	18.0[-2.0~+1.0]	dBm
1.4/3/5/10/15/20 MHz 64QAM	21.0[-2.0~+1.0]	13.5[-2.0~+1.0]	15.0[-2.0~+1.0]	18.0[-2.0~+1.0]	12.5[-2.0~+1.0]	15.0[-2.0~+1.0]	17.0[-2.0~+1.0]	dBm

The LTE Band 41 power adjust procedure

LTE Band 41	Original Tune up	Head reduce power tune up (ANT2)	Body reduce power tune up (ANT2)	Body reduce power tune up (ANT3)	Head Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT2)	Body Simultane ou power tune up (ANT3)	unit
1.4/3/5/10/15/20 MHz QPSK	23.0[-2.0~+1.0]	14.0[-2.0~+1.0]	17.0[-2.0~+1.0]	19.5[-2.0~+1.0]	13.0[-2.0~+1.0]	15.0[-2.0~+1.0]	18.5[-2.0~+1.0]	dBm
1.4/3/5/10/15/20 MHz 16QAM	22.0[-2.0~+1.0]	13.0[-2.0~+1.0]	16.0[-2.0~+1.0]	18.5[-2.0~+1.0]	12.0[-2.0~+1.0]	14.0[-2.0~+1.0]	17.5[-2.0~+1.0]	dBm
1.4/3/5/10/15/20 MHz 64QAM	21.0[-2.0~+1.0]	12.0[-2.0~+1.0]	15.0[-2.0~+1.0]	17.5[-2.0~+1.0]	11.0[-2.0~+1.0]	13.0[-2.0~+1.0]	16.5[-2.0~+1.0]	dBm

Original Tune up

Band	Mode	Channel	Target Power (dBm)	Tolerance (± dB)	unit
2.4G	2.4G_802.11b_20MHz	CH1	12.0	2.0	dBm
		CH6	14.5	2.0	dBm
		CH11	12.5	2.0	dBm
	2.4G_802.11g_20MHz	CH1	12.0	2.0	dBm
		CH6	16.5	2.0	dBm
		CH11	11.0	2.0	dBm
	2.4G_802.11n_20MHz	CH1	11.5	2.0	dBm
		CH6	16.5	2.0	dBm
		CH11	11.0	2.0	dBm
	2.4G_802.11n_40MHz	CH3	8.0	2.0	dBm
		CH6	12.0	2.0	dBm
		CH9	7.5	2.0	dBm

Band	Mode	Data Rate	Channel	Target Power (dBm)	Tolerance (± dB)	unit
5.2	802.11a	6Mbps	5180	14.5	2.0	dBm
			5200	17.0	2.0	dBm

			5220	17.0	2.0	dBm	
			5240	17.0	2.0	dBm	
	802.11n (HT20)	MCS0	5180	14.5	2.0	dBm	
			5200	17.0	2.0	dBm	
			5240	17.0	2.0	dBm	
	802.11n (HT40)	MCS0	5190	12.0	2.0	dBm	
			5230	16.5	2.0	dBm	
	802.11ac (HT20)	MCS0	5180	14.5	2.0	dBm	
			5200	17.0	2.0	dBm	
			5240	17.0	2.0	dBm	
	802.11ac (HT40)	MCS0	5190	12.0	2.0	dBm	
			5230	16.5	2.0	dBm	
802.11ac (HT80)	MCS0	5210	11.5	2.0	dBm		
5.3	802.11a	6Mbps	5260	17.0	2.0	dBm	
			5280	17.0	2.0	dBm	
			5300	17.0	2.0	dBm	
			5320	14.0	2.0	dBm	
	802.11n (HT20)	MCS0	5260	17.0	2.0	dBm	
			5300	17.0	2.0	dBm	
			5320	14.0	2.0	dBm	
	802.11n (HT40)	MCS0	5270	16.0	2.0	dBm	
			5310	12.0	2.0	dBm	
	802.11ac (HT20)	MCS0	5260	17.0	2.0	dBm	
			5300	17.0	2.0	dBm	
			5320	14.0	2.0	dBm	
	802.11ac (HT40)	MCS0	5270	16.0	2.0	dBm	
			5310	12.0	2.0	dBm	
	802.11ac (HT80)	MCS0	5300	11.0	2.0	dBm	
					2.0	dBm	
	5.6G	802.11a	6Mbps	5500	14.0	2.0	dBm
				5520	14.0	2.0	dBm
5540				14.0	2.0	dBm	
5560				14.0	2.0	dBm	

			5580	17.0	2.0	dBm	
			5600	17.0	2.0	dBm	
			5620	17.0	2.0	dBm	
			5640	17.0	2.0	dBm	
			5660	12.5	2.0	dBm	
			5680	12.5	2.0	dBm	
			5700	12.5	2.0	dBm	
	802.11n (HT20)	MCS0	5500	14.0	2.0	dBm	
			5580	17.0	2.0	dBm	
			5700	12.5	2.0	dBm	
	802.11n (HT40)	MCS0	5510	12.0	2.0	dBm	
			5550	17.0	2.0	dBm	
			5670	14.5	2.0	dBm	
	802.11ac (HT20)	MCS0	5500	14.0	2.0	dBm	
			5580	17.0	2.0	dBm	
			5700	12.5	2.0	dBm	
	802.11ac (HT40)	MCS0	5510	12.0	2.0	dBm	
			5550	17.0	2.0	dBm	
			5710	14.5	2.0	dBm	
	802.11ac (HT80)	MCS0	5530	11.5	2.0	dBm	
			5610	14.5	2.0	dBm	
			5690	17.0	2.0	dBm	
	SRD	802.11a	6Mbps	5745	17.0	2.0	dBm
				5785	17.0	2.0	dBm
				5825	17.0	2.0	dBm
		802.11n (HT20)	MCS0	5745	17.0	2.0	dBm
				5785	17.0	2.0	dBm
5825				17.0	2.0	dBm	
802.11n (HT40)		MCS0	5755	17.0	2.0	dBm	
			5795	17.0	2.0	dBm	
802.11ac (HT20)		MCS0	5745	17.0	2.0	dBm	
			5785	17.0	2.0	dBm	
			5825	17.0	2.0	dBm	
802.11ac		MCS0	5755	17.0	2.0	dBm	

	(HT40)		5795	17.0	2.0	dBm
	802.11ac (HT80)	MCS0	5775	17.0	2.0	dBm

2.4G WIFI Reduce Power tune up (Head)

Band	Mode	Channel	Target Power (dBm)	Tolerance (± dB)	unit
2.4G	2.4G_802.11b_20MHz	CH1	12.0	2.0	dBm
		CH6	14.5	2.0	dBm
		CH11	12.5	2.0	dBm
	2.4G_802.11g_20MHz	CH1	12.0	2.0	dBm
		CH6	15.5	2.0	dBm
		CH11	11.0	2.0	dBm
	2.4G_802.11n_20MHz	CH1	11.5	2.0	dBm
		CH6	15.5	2.0	dBm
		CH11	11.0	2.0	dBm
	2.4G_802.11n_40MHz	CH3	8.0	2.0	dBm
		CH6	12.0	2.0	dBm
		CH9	7.5	2.0	dBm

2.4G WIFI Reduce Power tune up (Head Simultaneous)

Band	Mode	Channel	Target Power (dBm)	Tolerance (± dB)	unit
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2.4G	2.4G_802.11b_20MHz	CH1	12.0	2.0	dBm
		CH6	14.0	2.0	dBm
		CH11	12.5	2.0	dBm
	2.4G_802.11g_20MHz	CH1	12.0	2.0	dBm
		CH6	14.0	2.0	dBm
		CH11	11.0	2.0	dBm
	2.4G_802.11n_20MHz	CH1	11.5	2.0	dBm
		CH6	14.0	2.0	dBm
		CH11	11.0	2.0	dBm
	2.4G_802.11n_40MHz	CH3	8.0	2.0	dBm
		CH6	12.0	2.0	dBm
		CH9	7.5	2.0	dBm

2.4G WIFI Reduce Power tune up (Body Simultaneous)

Band	Mode	Channel	Target Power (dBm)	Tolerance (± dB)	unit
2.4G	2.4G_802.11b_20MHz	CH1	12.0	2.0	dBm
		CH6	14.5	2.0	dBm
		CH11	12.5	2.0	dBm
	2.4G_802.11g_20MHz	CH1	12.0	2.0	dBm
		CH6	16.0	2.0	dBm
		CH11	11.0	2.0	dBm
	2.4G_802.11n_20MHz	CH1	11.5	2.0	dBm
		CH6	16.0	2.0	dBm
		CH11	11.0	2.0	dBm
	2.4G_802.11n_40MHz	CH3	8.0	2.0	dBm
		CH6	12.0	2.0	dBm
		CH9	7.5	2.0	dBm

5G WIFI Reduce power tune up (Head)

Band	Mode	Data Rate	Channel	Target Power (dBm)	Tolerance (\pm dB)	unit
5.2	802.11a	6Mbps	5180	14.5	2.0	dBm
			5200	14.5	2.0	dBm
			5220	14.5	2.0	dBm
			5240	14.5	2.0	dBm
	802.11n (HT20)	MCS0	5180	14.5	2.0	dBm
			5200	14.5	2.0	dBm
			5240	14.5	2.0	dBm
	802.11n (HT40)	MCS0	5190	12.0	2.0	dBm
			5230	14.5	2.0	dBm
	802.11ac (HT20)	MCS0	5180	14.5	2.0	dBm
			5200	14.5	2.0	dBm
			5240	14.5	2.0	dBm
	802.11ac (HT40)	MCS0	5190	12.0	2.0	dBm
			5230	14.5	2.0	dBm
802.11ac (HT80)	MCS0	5210	11.5	2.0	dBm	
5.3	802.11a	6Mbps	5260	14.5	2.0	dBm
			5280	14.5	2.0	dBm
			5300	14.5	2.0	dBm
			5320	14.0	2.0	dBm
	802.11n (HT20)	MCS0	5260	14.5	2.0	dBm
			5300	14.5	2.0	dBm
			5320	14.0	2.0	dBm
	802.11n (HT40)	MCS0	5270	14.5	2.0	dBm
			5310	12.0	2.0	dBm
	802.11ac (HT20)	MCS0	5260	14.5	2.0	dBm
			5300	14.5	2.0	dBm
			5320	14.0	2.0	dBm
	802.11ac (HT40)	MCS0	5270	14.5	2.0	dBm
			5310	12.0	2.0	dBm
802.11ac	MCS0	5300	11.0	2.0	dBm	

	(HT80)					
5.6G	802.11a	6Mbps	5500	13.5	2.0	dBm
			5520	13.5	2.0	dBm
			5540	13.5	2.0	dBm
			5560	13.5	2.0	dBm
			5580	13.5	2.0	dBm
			5600	13.5	2.0	dBm
			5620	13.5	2.0	dBm
			5640	13.5	2.0	dBm
			5660	12.5	2.0	dBm
			5680	12.5	2.0	dBm
			5700	12.5	2.0	dBm
	802.11n (HT20)	MCS0	5500	13.5	2.0	dBm
			5580	13.5	2.0	dBm
			5700	12.5	2.0	dBm
	802.11n (HT40)	MCS0	5510	12.0	2.0	dBm
			5550	13.5	2.0	dBm
			5670	13.5	2.0	dBm
	802.11ac (HT20)	MCS0	5500	13.5	2.0	dBm
			5580	13.5	2.0	dBm
			5700	12.5	2.0	dBm
	802.11ac (HT40)	MCS0	5510	12.0	2.0	dBm
			5550	13.5	2.0	dBm
			5710	13.5	2.0	dBm
	802.11ac (HT80)	MCS0	5530	11.5	2.0	dBm
			5610	13.5	2.0	dBm
			5690	13.5	2.0	dBm
	SRD	802.11a	6Mbps	5745	14.0	2.0
5785				14.0	2.0	dBm
5825				14.0	2.0	dBm
802.11n (HT20)		MCS0	5745	14.0	2.0	dBm
			5785	14.0	2.0	dBm
			5825	14.0	2.0	dBm
802.11n		MCS0	5755	14.0	2.0	dBm

	(HT40)		5795	14.0	2.0	dBm
	802.11ac	MCS0	5745	14.0	2.0	dBm
	(HT20)		5785	14.0	2.0	dBm
			5825	14.0	2.0	dBm
	802.11ac	MCS0	5755	14.0	2.0	dBm
	(HT40)		5795	14.0	2.0	dBm
	802.11ac	MCS0				
	(HT80)		5775	14.0	2.0	dBm

5G WIFI Reduce power tune up (Body)

Band	Mode	Data Rate	Channel	Target Power (dBm)	Tolerance (± dB)	unit
5.2	802.11a	6Mbps	5180	14.5	2.0	dBm
			5200	15.5	2.0	dBm
			5220	15.5	2.0	dBm
			5240	15.5	2.0	dBm
	802.11n (HT20)	MCS0	5180	14.5	2.0	dBm
			5200	15.5	2.0	dBm
			5240	15.5	2.0	dBm
	802.11n (HT40)	MCS0	5190	12.0	2.0	dBm
			5230	15.5	2.0	dBm
	802.11ac (HT20)	MCS0	5180	14.5	2.0	dBm
			5200	15.5	2.0	dBm
			5240	15.5	2.0	dBm
	802.11ac (HT40)	MCS0	5190	12.0	2.0	dBm
			5230	15.5	2.0	dBm
802.11ac (HT80)	MCS0	5210	11.5	2.0	dBm	
5.3	802.11a	6Mbps	5260	15.5	2.0	dBm
			5280	15.5	2.0	dBm
			5300	15.5	2.0	dBm

			5320	14.0	2.0	dBm
	802.11n (HT20)	MCS0	5260	15.5	2.0	dBm
			5300	15.5	2.0	dBm
			5320	14.0	2.0	dBm
	802.11n (HT40)	MCS0	5270	15.5	2.0	dBm
			5310	12.0	2.0	dBm
	802.11ac (HT20)	MCS0	5260	15.5	2.0	dBm
			5300	15.5	2.0	dBm
			5320	14.0	2.0	dBm
	802.11ac (HT40)	MCS0	5270	15.5	2.0	dBm
5310			12.0	2.0	dBm	
802.11ac (HT80)	MCS0	5300	11.0	2.0	dBm	
5.6G	802.11a	6Mbps	5500	14.0	2.0	dBm
			5520	14.0	2.0	dBm
			5540	14.0	2.0	dBm
			5560	14.0	2.0	dBm
			5580	14.5	2.0	dBm
			5600	14.5	2.0	dBm
			5620	14.5	2.0	dBm
			5640	14.5	2.0	dBm
			5660	12.5	2.0	dBm
			5680	12.5	2.0	dBm
			5700	12.5	2.0	dBm
	802.11n (HT20)	MCS0	5500	14.0	2.0	dBm
			5580	14.5	2.0	dBm
			5700	12.5	2.0	dBm
	802.11n (HT40)	MCS0	5510	12.0	2.0	dBm
			5550	14.5	2.0	dBm
			5670	14.5	2.0	dBm
	802.11ac (HT20)	MCS0	5500	14.0	2.0	dBm
			5580	14.5	2.0	dBm
			5700	12.5	2.0	dBm
	802.11ac	MCS0	5510	12.0	2.0	dBm

	(HT40)		5550	14.5	2.0	dBm
			5710	14.5	2.0	dBm
	802.11ac (HT80)	MCS0	5530	11.5	2.0	dBm
			5610	14.5	2.0	dBm
SRD	802.11a	6Mbps	5745	14.5	2.0	dBm
			5785	14.5	2.0	dBm
			5825	14.5	2.0	dBm
	802.11n (HT20)	MCS0	5745	14.5	2.0	dBm
			5785	14.5	2.0	dBm
			5825	14.5	2.0	dBm
	802.11n (HT40)	MCS0	5755	14.5	2.0	dBm
			5795	14.5	2.0	dBm
	802.11ac (HT20)	MCS0	5745	14.5	2.0	dBm
			5785	14.5	2.0	dBm
			5825	14.5	2.0	dBm
	802.11ac (HT40)	MCS0	5755	14.5	2.0	dBm
			5795	14.5	2.0	dBm
	802.11ac (HT80)	MCS0	5775	14.5	2.0	dBm

5G WIFI Reduce power tune up (Head Simultaneous)

Band	Mode	Data Rate	Channel	Target Power (dBm)	Tolerance (± dB)	unit
5.2	802.11a	6Mbps	5180	13.0	2.0	dBm
			5200	13.0	2.0	dBm
			5220	13.0	2.0	dBm
			5240	13.0	2.0	dBm
	802.11n	MCS0	5180	13.0	2.0	dBm

	(HT20)		5200	13.0	2.0	dBm
			5240	13.0	2.0	dBm
	802.11n (HT40)	MCS0	5190	12.0	2.0	dBm
			5230	13.0	2.0	dBm
	802.11ac (HT20)	MCS0	5180	13.0	2.0	dBm
			5200	13.0	2.0	dBm
			5240	13.0	2.0	dBm
	802.11ac (HT40)	MCS0	5190	12.0	2.0	dBm
			5230	13.0	2.0	dBm
	802.11ac (HT80)	MCS0	5210	11.5	2.0	dBm
5.3	802.11a	6Mbps	5260	13.0	2.0	dBm
			5280	13.0	2.0	dBm
			5300	13.0	2.0	dBm
			5320	13.0	2.0	dBm
	802.11n (HT20)	MCS0	5260	13.0	2.0	dBm
			5300	13.0	2.0	dBm
			5320	13.0	2.0	dBm
	802.11n (HT40)	MCS0	5270	13.0	2.0	dBm
			5310	12.0	2.0	dBm
	802.11ac (HT20)	MCS0	5260	13.0	2.0	dBm
			5300	13.0	2.0	dBm
			5320	13.0	2.0	dBm
	802.11ac (HT40)	MCS0	5270	13.0	2.0	dBm
			5310	12.0	2.0	dBm
802.11ac (HT80)	MCS0	5300	11.0	2.0	dBm	
5.6G	802.11a	6Mbps	5500	12.0	2.0	dBm
			5520	12.0	2.0	dBm
			5540	12.0	2.0	dBm
			5560	12.0	2.0	dBm
			5580	12.0	2.0	dBm
			5600	12.0	2.0	dBm
			5620	12.0	2.0	dBm

			5640	12.0	2.0	dBm	
			5660	12.0	2.0	dBm	
			5680	12.0	2.0	dBm	
			5700	12.0	2.0	dBm	
	802.11n (HT20)	MCS0	5500	12.0	2.0	dBm	
			5580	12.0	2.0	dBm	
			5700	12.0	2.0	dBm	
	802.11n (HT40)	MCS0	5510	12.0	2.0	dBm	
			5550	12.0	2.0	dBm	
			5670	12.0	2.0	dBm	
	802.11ac (HT20)	MCS0	5500	12.0	2.0	dBm	
			5580	12.0	2.0	dBm	
			5700	12.0	2.0	dBm	
	802.11ac (HT40)	MCS0	5510	12.0	2.0	dBm	
			5550	12.0	2.0	dBm	
			5710	12.0	2.0	dBm	
	802.11ac (HT80)	MCS0	5530	11.5	2.0	dBm	
			5610	12.0	2.0	dBm	
			5690	12.0	2.0	dBm	
	SRD	802.11a	6Mbps	5745	12.0	2.0	dBm
				5785	12.0	2.0	dBm
5825				12.0	2.0	dBm	
802.11n (HT20)		MCS0	5745	12.0	2.0	dBm	
			5785	12.0	2.0	dBm	
			5825	12.0	2.0	dBm	
802.11n (HT40)		MCS0	5755	12.0	2.0	dBm	
			5795	12.0	2.0	dBm	
802.11ac (HT20)		MCS0	5745	12.0	2.0	dBm	
			5785	12.0	2.0	dBm	
			5825	12.0	2.0	dBm	
802.11ac (HT40)		MCS0	5755	12.0	2.0	dBm	
			5795	12.0	2.0	dBm	
802.11ac (HT80)		MCS0	5775	12.0	2.0	dBm	

5G WIFI Reduce power tune up (Body Simultaneous)

Band	Mode	Data Rate	Channel	Target Power (dBm)	Tolerance (± dB)	unit
5.2	802.11a	6Mbps	5180	13.0	2.0	dBm
			5200	13.0	2.0	dBm
			5220	13.0	2.0	dBm
			5240	13.0	2.0	dBm
	802.11n (HT20)	MCS0	5180	13.0	2.0	dBm
			5200	13.0	2.0	dBm
			5240	13.0	2.0	dBm
	802.11n (HT40)	MCS0	5190	12.0	2.0	dBm
			5230	13.0	2.0	dBm
	802.11ac (HT20)	MCS0	5180	13.0	2.0	dBm
			5200	13.0	2.0	dBm
			5240	13.0	2.0	dBm
	802.11ac (HT40)	MCS0	5190	12.0	2.0	dBm
5230			13.0	2.0	dBm	
802.11ac (HT80)	MCS0	5210	11.5	2.0	dBm	
5.3	802.11a	6Mbps	5260	13.0	2.0	dBm
			5280	13.0	2.0	dBm
			5300	13.0	2.0	dBm
			5320	13.0	2.0	dBm
	802.11n (HT20)	MCS0	5260	13.0	2.0	dBm
			5300	13.0	2.0	dBm
			5320	13.0	2.0	dBm
	802.11n (HT40)	MCS0	5270	13.0	2.0	dBm
			5310	12.0	2.0	dBm
	802.11ac (HT20)	MCS0	5260	17.0	2.0	dBm
			5300	17.0	2.0	dBm
			5320	14.0	2.0	dBm

	802.11ac (HT40)	MCS0	5270	16.0	2.0	dBm
			5310	12.0	2.0	dBm
	802.11ac (HT80)	MCS0	5300	11.0	2.0	dBm
5.6G	802.11a	6Mbps	5500	13.0	2.0	dBm
			5520	13.0	2.0	dBm
			5540	13.0	2.0	dBm
			5560	13.0	2.0	dBm
			5580	13.0	2.0	dBm
			5600	13.0	2.0	dBm
			5620	13.0	2.0	dBm
			5640	13.0	2.0	dBm
			5660	12.5	2.0	dBm
			5680	12.5	2.0	dBm
			5700	12.5	2.0	dBm
	802.11n (HT20)	MCS0	5500	13.0	2.0	dBm
			5580	13.0	2.0	dBm
			5700	12.5	2.0	dBm
	802.11n (HT40)	MCS0	5510	12.0	2.0	dBm
			5550	13.0	2.0	dBm
			5670	13.0	2.0	dBm
	802.11ac (HT20)	MCS0	5500	13.0	2.0	dBm
			5580	13.0	2.0	dBm
			5700	12.5	2.0	dBm
	802.11ac (HT40)	MCS0	5510	12.0	2.0	dBm
			5550	13.0	2.0	dBm
			5710	13.0	2.0	dBm
	802.11ac (HT80)	MCS0	5530	11.5	2.0	dBm
			5610	13.0	2.0	dBm
			5690	13.0	2.0	dBm
	SRD	802.11a	6Mbps	5745	13.0	2.0
5785				13.0	2.0	dBm
5825				13.0	2.0	dBm
802.11n		MCS0	5745	13.0	2.0	dBm

	(HT20)		5785	13.0	2.0	dBm
			5825	13.0	2.0	dBm
	802.11n (HT40)	MCS0	5755	13.0	2.0	dBm
			5795	13.0	2.0	dBm
	802.11ac (HT20)	MCS0	5745	13.0	2.0	dBm
			5785	13.0	2.0	dBm
			5825	13.0	2.0	dBm
	802.11ac (HT40)	MCS0	5755	13.0	2.0	dBm
			5795	13.0	2.0	dBm
	802.11ac (HT80)	MCS0	5775	13.0	2.0	dBm

Band	Mode	Channel	Target Power (dBm)	Tolerance (\pm dB)	unit
BT	BT_DH5	CH0-0	12	2.0	dBm
		CH0-39	12	2.0	dBm
		CH0-78	12	2.0	dBm
	BT_LE	CH0-39	5	2.0	dBm

12. MEASUREMENT RESULTS

Result: Passed

Date of testing : 2022.09.05~2022.09.18;
Ambient temperature : 20°C~22°C
Relative humidity : 50~68%

12.1. Conducted Power

For the measurements a Rohde & Schwarz Radio Communication Tester CMU 200 was used. SAR drift measured at the same position in liquid before and after each SAR test.

Note: CMU200 measures GSM peak and average output power for active timeslots. For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of Timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.1	1:2.77	1:2.08
Time based avg. power compared to slotted avg. power	-9.00dB	-6.00 dB	-4.26dB	-3.00dB

The signalling modes differ as follows:

Mode	Coding scheme	Modulation
GPRS	CS1 to CS4	GMSK
EDGE	MCS1 to MCS4	GMSK
EDGE	MCS5 to MCS9	8PSK

Apart from modulation change (GMSK/8PSK) coding schemes differ in code rate without influence on the RF signal. Therefore one coding scheme per mode was selected for conducted power measurements.

12.2. Power

Receiver detection mechanism specification:

This device support the receiver detection mechanism, the main purpose is to minimize triggering associated with power reduction scenarios by receiver detection mechanisms and provide enhanced user experience. It uses the receiver to indicate whether the user is making a call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. It can determine proximity to head or body and set the relevant power level for 2G&3G&4G and Wi-Fi antennas accordingly.

SAR test Plan:

For Head SAR test, SAR is evaluated with receiver on mode.

For Body SAR test, SAR is evaluated with receiver off mode.

Original Power(Ant 2):

Band: GSM850	Burst Average Power (dBm)			Frame Average Power (dBm)		
	128	190	251	128	190	251
Channel	128	190	251	128	190	251
GSM (CS)	33.19	33.12	33.05	24.19	24.12	24.05
GPRS/EDGE (GMSK, 1 Tx slot)	33.19	33.12	33.03	24.19	24.12	24.03
GPRS/EDGE (GMSK, 2 Tx slots)	31.41	31.32	31.21	25.41	25.32	25.21
GPRS/EDGE (GMSK, 3 Tx slots)	29.90	29.82	29.66	25.64	25.56	25.40
GPRS/EDGE (GMSK, 4 Tx slots)	28.50	28.39	28.24	25.50	25.39	25.24
EDGE (8PSK, 1 Tx slot)	27.60	27.70	27.69	18.60	18.70	18.69
EDGE (8PSK, 2 Tx slots)	25.48	25.54	25.46	19.48	19.54	19.46
EDGE (8PSK, 3 Tx slots)	23.19	23.31	23.26	18.93	19.05	19.00

EDGE (8PSK, 4 Tx slots)	22.40	22.58	22.51	19.40	19.58	19.51
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Remark:

The conducted power of GSM850 is measured with RMS detector.

Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.

Per KDB941225 D01v03, the bolded GPRS 2 Tx mode was selected as the primary mode for SAR testing according to the highest frame- averaged output power table.

Band: DCS1900	Burst Average Power (dBm)			Frame Average Power (dBm)		
Channel	513	661	810	513	661	810
GSM (CS)	29.75	30.00	30.21	20.75	21.00	21.21
GPRS/EDGE (GMSK, 1 Tx slot)	29.74	29.99	30.19	20.74	20.99	21.19
GPRS/EDGE (GMSK, 2 Tx slots)	27.68	27.96	28.18	21.68	21.96	22.18
GPRS/EDGE (GMSK, 3 Tx slots)	26.10	26.40	26.68	21.84	22.14	22.42
GPRS/EDGE (GMSK, 4 Tx slots)	24.62	24.97	25.17	21.62	21.97	22.17
EDGE (8PSK, 1 Tx slot)	26.40	26.39	26.66	17.40	17.39	17.66
EDGE (8PSK, 2 Tx slots)	23.51	23.51	23.81	17.51	17.51	17.81
EDGE (8PSK, 3 Tx slots)	21.24	21.31	21.59	16.98	17.05	17.33
EDGE (8PSK, 4 Tx slots)	20.52	20.51	20.83	17.52	17.51	17.83

Remark:

- 1) The conducted power of GSM1900 is measured with RMS detector.
- 2) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.

Per KDB941225 D01v03, the bolded GPRS 2 Tx mode was selected as the primary mode for SAR testing according to the highest frame- averaged output power table.

UMTS Band II		Conducted Power (dBm)		
		9262	9400	9538
WCDMA	12.2kbps RMC	23.54	23.65	23.56
	64kbps RMC	23.32	23.56	23.52
	144kbps RMC	23.30	23.53	23.55
	384kbps RMC	23.28	23.57	23.52
HSDPA	Subtest 1	23.35	23.52	23.49
	Subtest 2	22.81	22.92	22.87
	Subtest 3	22.77	22.91	22.82
	Subtest 4	22.71	22.84	22.78
HSUPA	Subtest 1	21.70	21.30	21.18
	Subtest 2	21.31	21.35	21.30
	Subtest 3	22.19	22.38	22.29
	Subtest 4	20.72	20.83	20.78
	Subtest 5	22.05	22.15	22.13

Remark:

- 1) The conducted power of UMTS Band II is measured with RMS detector
- 2) Per KDB 941225 D01v03, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

UMTS Band IV		Conducted Power (dBm)		
		1312	1412	1513
WCDMA	12.2kbps RMC	23.38	23.34	23.36
	64kbps RMC	23.31	23.29	23.31
	144kbps RMC	23.33	23.21	23.36
	384kbps RMC	23.36	23.33	23.36
HSDPA	Subtest 1	23.32	23.28	23.32
	Subtest 2	22.75	22.56	22.71
	Subtest 3	22.61	22.66	22.59
	Subtest 4	22.69	22.48	22.58
HSUPA	Subtest 1	21.65	21.00	21.04
	Subtest 2	21.29	21.24	21.29
	Subtest 3	22.11	22.05	22.02
	Subtest 4	20.64	20.54	20.66
	Subtest 5	21.99	21.90	21.92

Remark:

- 1)The conducted power of UMTS Band IV is measured with RMS detector
- 2)Per KDB 941225 D01v03, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

UMTS Band V		Conducted Power (dBm)		
		4133	4175	4232
WCDMA	12.2kbps RMC	23.84	23.94	23.92
	64kbps RMC	23.77	23.89	23.87
	144kbps RMC	23.79	23.82	23.92
	384kbps RMC	23.83	23.93	23.92
HSDPA	Subtest 1	23.76	23.85	23.86
	Subtest 2	23.13	23.27	23.25
	Subtest 3	23.10	23.14	23.19
	Subtest 4	23.12	23.07	23.11
HSUPA	Subtest 1	21.94	21.47	21.48
	Subtest 2	21.58	21.67	21.67
	Subtest 3	22.44	22.55	22.60
	Subtest 4	21.11	21.22	21.17
	Subtest 5	22.44	22.50	22.54

Remark:

The conducted power of UMTS Band V is measured with RMS detector

Per KDB 941225 D01v03, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

LTE Band 2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	22.26	22.53	22.46
		1	3	22.30	22.53	22.48
		1	5	22.29	22.51	22.43
		3	0	21.45	21.76	21.46
		3	1	21.46	21.78	21.46
		3	3	21.45	21.81	21.44
		6	0	21.41	21.85	21.41
	16QAM	1	0	21.42	21.89	21.37
		1	3	21.38	21.91	21.40
		1	5	21.40	21.87	21.45
		3	0	20.48	21.10	20.54
		3	1	20.54	21.04	20.51
		3	3	20.52	21.05	20.51
		6	0	20.48	21.08	20.53
	64QAM	1	0	20.44	21.11	20.57
		1	3	20.47	21.13	20.61
		1	5	20.45	21.17	20.58
		3	0	19.40	20.18	19.58
		3	1	19.39	20.17	19.58
		3	3	19.42	20.17	19.54
		6	0	19.41	20.17	19.56

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0	22.31	22.47	22.56
		1	8	22.36	22.52	22.57
		1	14	22.33	22.51	22.52
		8	0	21.48	21.63	21.65
		8	4	21.44	21.67	21.67
		8	7	21.46	21.64	21.67
		15	0	21.48	21.66	21.69
	16QAM	1	0	21.50	21.63	21.71
		1	8	21.46	21.64	21.67
		1	14	21.41	21.63	21.66
		8	0	20.65	20.75	20.81
		8	4	20.63	20.80	20.83
		8	7	20.67	20.78	20.80
		15	0	20.70	20.76	20.84
	64QAM	1	0	20.68	20.76	20.86
		1	8	20.71	20.75	20.84
		1	14	20.75	20.76	20.85
		8	0	19.76	19.76	19.84
		8	4	19.76	19.81	19.87
		8	7	19.75	19.81	19.87
		15	0	19.75	19.78	19.82

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	22.36	22.50	22.49
		1	13	22.38	22.53	22.54
		1	24	22.34	22.50	22.52
		12	0	21.34	21.74	21.66
		12	6	21.32	21.73	21.63
		12	13	21.35	21.78	21.60
		25	0	21.35	21.80	21.56
	16QAM	1	0	21.31	21.80	21.52
		1	13	21.31	21.79	21.51
		1	24	21.36	21.79	21.55
		12	0	20.45	20.90	20.74
		12	6	20.46	20.92	20.71
		12	13	20.49	20.97	20.69
		25	0	20.45	20.94	20.65
	64QAM	1	0	20.42	20.99	20.65
		1	13	20.42	21.00	20.62
		1	24	20.47	21.05	20.66
		12	0	19.49	19.98	19.61
		12	6	19.44	19.98	19.57
		12	13	19.42	19.94	19.58
		25	0	19.38	19.97	19.62

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	22.39	22.49	22.45
		1	25	22.40	22.52	22.49
		1	49	22.39	22.51	22.49
		25	0	21.54	21.73	21.59
		25	12	21.58	21.76	21.54
		25	25	21.56	21.79	21.52
		50	0	21.54	21.79	21.49
	16QAM	1	0	21.59	21.83	21.54
		1	25	21.55	21.81	21.49
		1	49	21.51	21.79	21.53
		25	0	20.53	21.01	20.57
		25	12	20.56	21.03	20.51
		25	25	20.56	21.07	20.55
		50	0	20.54	21.03	20.50
	64QAM	1	0	20.52	21.01	20.49
		1	25	20.50	21.03	20.51
		1	49	20.54	21.04	20.48
		25	0	19.56	19.96	19.49
		25	12	19.60	19.93	19.45
		25	25	19.60	19.94	19.45
		50	0	19.61	19.92	19.50

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	22.38	22.50	22.43
		1	37	22.43	22.51	22.44
		1	74	22.39	22.47	22.42
		36	0	21.44	21.58	21.65
		36	20	21.46	21.62	21.69
		36	39	21.45	21.63	21.72
		75	0	21.45	21.59	21.73
	16QAM	1	0	21.47	21.54	21.73
		1	37	21.44	21.52	21.71
		1	74	21.41	21.52	21.68
		36	0	20.54	20.54	20.91
		36	20	20.52	20.55	20.94
		36	39	20.52	20.53	20.92
		75	0	20.55	20.53	20.92
	64QAM	1	0	20.60	20.56	20.88
		1	37	20.55	20.58	20.88
		1	74	20.52	20.61	20.93
		36	0	19.48	19.53	19.85
		36	20	19.46	19.53	19.85
		36	39	19.48	19.55	19.89
		75	0	19.52	19.54	19.87

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	22.48	22.54	22.49
		1	50	22.49	22.55	22.51
		1	99	22.45	22.55	22.47
		50	0	21.65	21.78	21.63
		50	25	21.67	21.75	21.64
		50	50	21.69	21.76	21.61
		100	0	21.68	21.73	21.60
	16QAM	1	0	21.72	21.73	21.62
		1	50	21.76	21.77	21.62
		1	99	21.76	21.77	21.62
		50	0	20.79	20.93	20.86
		50	25	20.76	20.93	20.87
		50	50	20.77	20.93	20.89
		100	0	20.79	20.88	20.93
	64QAM	1	0	20.82	20.91	20.89
		1	50	20.87	20.87	20.85
		1	99	20.83	20.90	20.90
		50	0	19.83	19.90	19.82
		50	25	19.83	19.85	19.82
		50	50	19.87	19.89	19.87
		100	0	19.90	19.85	19.86

LTE Band 4

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	22.55	22.70	22.45
		1	3	22.56	22.70	22.47
		1	5	22.55	22.66	22.46
		3	0	21.70	21.82	21.46
		3	1	21.74	21.82	21.50
		3	3	21.74	21.79	21.52
		6	0	21.70	21.79	21.56
	16QAM	1	0	21.65	21.84	21.52
		1	3	21.64	21.79	21.53
		1	5	21.61	21.75	21.52
		3	0	20.80	20.97	20.60
		3	1	20.75	20.99	20.63
		3	3	20.74	20.96	20.59
		6	0	20.71	20.92	20.58
	64QAM	1	0	20.67	20.94	20.57
		1	3	20.69	20.98	20.52
		1	5	20.72	21.02	20.57
		3	0	19.73	19.98	19.48
		3	1	19.75	19.94	19.44
		3	3	19.73	19.98	19.40
		6	0	19.75	19.94	19.39

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19965	20175	20385
3MHz	QPSK	1	0	22.53	22.66	22.48
		1	8	22.55	22.66	22.50
		1	14	22.52	22.66	22.49
		8	0	21.54	21.75	21.68
		8	4	21.50	21.72	21.70
		8	7	21.53	21.71	21.70
		15	0	21.54	21.73	21.71
	16QAM	1	0	21.58	21.76	21.73
		1	8	21.63	21.73	21.70
		1	14	21.67	21.72	21.69
		8	0	20.74	20.98	20.87
		8	4	20.72	21.01	20.89
		8	7	20.73	20.97	20.92
		15	0	20.76	21.01	20.91
	64QAM	1	0	20.79	21.00	20.91
		1	8	20.78	21.04	20.96
		1	14	20.79	21.07	20.97
		8	0	19.73	20.08	19.98
		8	4	19.70	20.12	19.94
		8	7	19.70	20.09	19.99
		15	0	19.69	20.11	20.00

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0	22.54	22.56	22.53
		1	13	22.57	22.61	22.54
		1	24	22.56	22.60	22.51
		12	0	21.63	21.84	21.74
		12	6	21.64	21.84	21.71
		12	13	21.61	21.79	21.73
		25	0	21.62	21.78	21.69
	16QAM	1	0	21.61	21.75	21.64
		1	13	21.60	21.79	21.62
		1	24	21.55	21.76	21.64
		12	0	20.78	20.80	20.87
		12	6	20.77	20.79	20.84
		12	13	20.76	20.76	20.87
		25	0	20.77	20.76	20.87
	64QAM	1	0	20.73	20.78	20.87
		1	13	20.77	20.79	20.90
		1	24	20.75	20.81	20.94
		12	0	19.75	19.77	19.94
		12	6	19.75	19.79	19.92
		12	13	19.77	19.82	19.94
		25	0	19.77	19.79	19.91

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0	22.53	22.61	22.49
		1	25	22.58	22.64	22.50
		1	49	22.54	22.61	22.49
		25	0	21.73	21.77	21.66
		25	12	21.75	21.73	21.63
		25	25	21.77	21.75	21.67
		50	0	21.80	21.75	21.71
	16QAM	1	0	21.82	21.72	21.71
		1	25	21.85	21.72	21.71
		1	49	21.88	21.70	21.75
		25	0	21.11	20.86	20.78
		25	12	21.15	20.90	20.77
		25	25	21.12	20.91	20.73
		50	0	21.10	20.93	20.74
	64QAM	1	0	21.15	20.94	20.77
		1	25	21.12	20.99	20.78
		1	49	21.16	21.02	20.74
		25	0	20.17	19.97	19.71
		25	12	20.14	19.95	19.66
		25	25	20.16	19.97	19.67
		50	0	20.19	20.01	19.62

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	22.51	22.60	22.47
		1	37	22.53	22.63	22.51
		1	74	22.51	22.62	22.48
		36	0	21.74	21.73	21.70
		36	20	21.78	21.74	21.66
		36	39	21.82	21.70	21.68
		75	0	21.86	21.67	21.73
	16QAM	1	0	21.90	21.62	21.75
		1	37	21.95	21.60	21.75
		1	74	21.91	21.56	21.78
		36	0	21.06	20.72	20.81
		36	20	21.00	20.68	20.79
		36	39	20.99	20.65	20.81
		75	0	21.01	20.62	20.79
	64QAM	1	0	21.03	20.60	20.76
		1	37	21.03	20.58	20.73
		1	74	21.04	20.59	20.69
		36	0	20.05	19.55	19.59
		36	20	20.02	19.54	19.55
		36	39	19.99	19.55	19.55
		75	0	19.95	19.55	19.52

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	22.54	22.63	22.54
		1	50	22.58	22.64	22.55
		1	99	22.54	22.64	22.51
		50	0	21.68	21.84	21.76
		50	25	21.65	21.87	21.80
		50	50	21.64	21.83	21.77
		100	0	21.65	21.84	21.73
	16QAM	1	0	21.62	21.80	21.75
		1	50	21.58	21.83	21.75
		1	99	21.57	21.81	21.71
		50	0	20.68	20.94	20.71
		50	25	20.72	20.87	20.74
		50	50	20.76	20.88	20.73
		100	0	20.76	20.83	20.74
	64QAM	1	0	20.77	20.87	20.77
		1	50	20.79	20.89	20.80
		1	99	20.83	20.87	20.83
		50	0	19.85	19.84	19.77
		50	25	19.86	19.85	19.75
		50	50	19.88	19.83	19.70
		100	0	19.91	19.82	19.74

LTE Band 5

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	23.33	23.25	23.15
		1	3	23.37	23.29	23.19
		1	5	23.33	23.29	23.15
		3	0	22.44	22.38	22.24
		3	1	22.45	22.37	22.22
		3	3	22.44	22.39	22.21
		6	0	22.48	22.41	22.18
	16QAM	1	0	22.50	22.44	22.20
		1	3	22.53	22.48	22.21
		1	5	22.52	22.43	22.22
		3	0	21.78	21.57	21.29
		3	1	21.74	21.55	21.25
		3	3	21.72	21.54	21.22
		6	0	21.73	21.51	21.21
	64QAM	1	0	21.70	21.51	21.19
		1	3	21.74	21.49	21.24
		1	5	21.74	21.51	21.28
		3	0	20.77	20.43	20.25
		3	1	20.77	20.47	20.24
		3	3	20.74	20.45	20.24
		6	0	20.72	20.47	20.23

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0	23.35	23.29	23.16
		1	8	23.36	23.32	23.20
		1	14	23.34	23.27	23.16
		8	0	22.40	22.38	22.19
		8	4	22.38	22.34	22.19
		8	7	22.40	22.32	22.15
		15	0	22.35	22.33	22.16
	16QAM	1	0	22.40	22.36	22.18
		1	8	22.40	22.31	22.20
		1	14	22.44	22.34	22.18
		8	0	21.47	21.48	21.41
		8	4	21.49	21.42	21.42
		8	7	21.45	21.43	21.42
		15	0	21.48	21.38	21.40
	64QAM	1	0	21.44	21.43	21.41
		1	8	21.46	21.41	21.45
		1	14	21.49	21.43	21.49
		8	0	20.41	20.42	20.49
		8	4	20.44	20.47	20.49
		8	7	20.41	20.50	20.53
		15	0	20.45	20.51	20.49

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0	23.32	23.30	23.20
		1	13	23.34	23.31	23.24
		1	24	23.33	23.27	23.20
		12	0	22.49	22.35	22.37
		12	6	22.44	22.32	22.40
		12	13	22.41	22.34	22.41
		25	0	22.45	22.35	22.45
	16QAM	1	0	22.47	22.39	22.43
		1	13	22.43	22.39	22.45
		1	24	22.40	22.38	22.45
		12	0	21.57	21.49	21.60
		12	6	21.62	21.54	21.58
		12	13	21.62	21.53	21.60
		25	0	21.57	21.51	21.57
	64QAM	1	0	21.60	21.54	21.59
		1	13	21.58	21.51	21.55
		1	24	21.61	21.56	21.58
		12	0	20.63	20.53	20.49
		12	6	20.64	20.50	20.49
		12	13	20.68	20.55	20.49
		25	0	20.65	20.54	20.45

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0	23.31	23.32	23.22
		1	25	23.34	23.34	23.25
		1	49	23.31	23.30	23.22
		25	0	22.47	22.54	22.24
		25	12	22.43	22.56	22.27
		25	25	22.39	22.52	22.27
		50	0	22.37	22.49	22.32
	16QAM	1	0	22.36	22.47	22.36
		1	25	22.33	22.45	22.40
		1	49	22.32	22.50	22.42
		25	0	21.35	21.62	21.60
		25	12	21.32	21.68	21.66
		25	25	21.28	21.69	21.70
		50	0	21.24	21.68	21.71
	64QAM	1	0	21.19	21.66	21.68
		1	25	21.19	21.66	21.69
		1	49	21.17	21.70	21.69
		25	0	20.13	20.63	20.68
		25	12	20.17	20.65	20.68
		25	25	20.17	20.63	20.67
		50	0	20.13	20.64	20.70

LTE Band 7

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	22.01	22.14	22.15
		1	13	22.02	22.16	22.20
		1	24	21.98	22.14	22.19
		12	0	21.05	21.16	21.42
		12	6	21.09	21.12	21.37
		12	13	21.05	21.08	21.42
		25	0	21.09	21.03	21.40
	16QAM	1	0	21.09	21.08	21.44
		1	13	21.09	21.04	21.41
		1	24	21.08	21.08	21.39
		12	0	20.11	20.16	20.59
		12	6	20.07	20.20	20.64
		12	13	20.05	20.25	20.62
		25	0	20.01	20.28	20.64
	64QAM	1	0	19.97	20.23	20.60
		1	13	19.93	20.21	20.60
		1	24	19.91	20.26	20.58
		12	0	18.92	19.16	19.58
		12	6	18.93	19.15	19.62
		12	13	18.98	19.20	19.59
		25	0	18.93	19.24	19.57

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0	22.07	22.14	22.16
		1	25	22.09	22.17	22.16
		1	49	22.04	22.17	22.16
		25	0	21.14	21.34	21.29
		25	12	21.16	21.30	21.29
		25	25	21.13	21.31	21.26
		50	0	21.12	21.32	21.23
	16QAM	1	0	21.15	21.29	21.22
		1	25	21.11	21.31	21.22
		1	49	21.08	21.33	21.27
		25	0	20.25	20.56	20.33
		25	12	20.31	20.59	20.31
		25	25	20.35	20.59	20.32
		50	0	20.31	20.62	20.31
	64QAM	1	0	20.36	20.59	20.31
		1	25	20.41	20.56	20.29
		1	49	20.36	20.56	20.31
		25	0	19.35	19.51	19.25
		25	12	19.31	19.53	19.28
		25	25	19.27	19.50	19.32
		50	0	19.25	19.48	19.30

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0	22.11	22.18	22.11
		1	37	22.13	22.19	22.13
		1	74	22.10	22.18	22.13
		36	0	21.33	21.27	21.13
		36	20	21.34	21.27	21.15
		36	39	21.31	21.22	21.18
		75	0	21.27	21.26	21.13
	16QAM	1	0	21.29	21.26	21.17
		1	37	21.30	21.25	21.20
		1	74	21.28	21.28	21.25
		36	0	20.40	20.33	20.25
		36	20	20.42	20.38	20.30
		36	39	20.42	20.36	20.25
		75	0	20.46	20.36	20.24
	64QAM	1	0	20.50	20.35	20.23
		1	37	20.52	20.35	20.22
		1	74	20.56	20.31	20.22
		36	0	19.46	19.26	19.14
		36	20	19.48	19.28	19.09
		36	39	19.50	19.28	19.12
		75	0	19.50	19.33	19.08

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0	22.12	22.18	22.14
		1	50	22.15	22.19	22.15
		1	99	22.12	22.19	22.13
		50	0	21.33	21.24	21.19
		50	25	21.36	21.27	21.21
		50	50	21.37	21.23	21.25
		100	0	21.41	21.21	21.28
	16QAM	1	0	21.41	21.22	21.29
		1	50	21.38	21.24	21.27
		1	99	21.34	21.19	21.30
		50	0	20.51	20.44	20.48
		50	25	20.57	20.47	20.54
		50	50	20.58	20.51	20.54
		100	0	20.61	20.50	20.56
	64QAM	1	0	20.62	20.46	20.55
		1	50	20.64	20.45	20.57
		1	99	20.66	20.47	20.61
		50	0	19.62	19.48	19.55
		50	25	19.63	19.53	19.58
		50	50	19.68	19.56	19.62
		100	0	19.65	19.57	19.64

LTE Band 12

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23017	23095	23173
1.4MHz	QPSK	1	0	23.35	23.30	23.24
		1	3	23.40	23.35	23.28
		1	5	23.39	23.31	23.25
		3	0	22.42	22.45	22.34
		3	1	22.44	22.50	22.29
		3	3	22.43	22.46	22.26
		6	0	22.40	22.46	22.29
	16QAM	1	0	22.44	22.46	22.33
		1	3	22.48	22.51	22.29
		1	5	22.52	22.49	22.32
		3	0	21.57	21.74	21.51
		3	1	21.60	21.77	21.56
		3	3	21.63	21.77	21.61
		6	0	21.65	21.80	21.58
	64QAM	1	0	21.69	21.84	21.57
		1	3	21.72	21.83	21.60
		1	5	21.68	21.86	21.62
		3	0	20.59	20.89	20.61
		3	1	20.57	20.87	20.66
		3	3	20.60	20.91	20.69
		6	0	20.62	20.88	20.66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23025	23095	23165
3MHz	QPSK	1	0	23.38	23.33	23.30
		1	8	23.39	23.37	23.33
		1	14	23.38	23.35	23.30
		8	0	22.56	22.55	22.32
		8	4	22.51	22.58	22.36
		8	7	22.48	22.62	22.40
		15	0	22.47	22.57	22.37
	16QAM	1	0	22.47	22.54	22.36
		1	8	22.46	22.56	22.39
		1	14	22.49	22.60	22.39
		8	0	21.64	21.74	21.42
		8	4	21.68	21.79	21.38
		8	7	21.66	21.80	21.40
		15	0	21.62	21.77	21.42
	64QAM	1	0	21.65	21.77	21.43
		1	8	21.69	21.80	21.38
		1	14	21.68	21.82	21.40
		8	0	20.60	20.76	20.36
		8	4	20.61	20.75	20.39
		8	7	20.60	20.70	20.38
		15	0	20.64	20.66	20.37

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23035	23095	23155
5MHz	QPSK	1	0	23.34	23.35	23.30
		1	13	23.37	23.38	23.34
		1	24	23.37	23.37	23.34
		12	0	22.61	22.62	22.40
		12	6	22.66	22.61	22.42
		12	13	22.63	22.65	22.45
		25	0	22.67	22.69	22.42
	16QAM	1	0	22.69	22.69	22.45
		1	13	22.68	22.71	22.49
		1	24	22.71	22.73	22.45
		12	0	21.88	21.86	21.50
		12	6	21.82	21.91	21.54
		12	13	21.80	21.88	21.55
		25	0	21.83	21.86	21.55
	64QAM	1	0	21.83	21.89	21.59
		1	13	21.78	21.87	21.56
		1	24	21.75	21.90	21.59
		12	0	20.73	20.88	20.54
		12	6	20.76	20.88	20.55
		12	13	20.72	20.88	20.58
		25	0	20.71	20.87	20.58

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23060	23095	23130
10MHz	QPSK	1	0	23.36	23.38	23.37
		1	25	23.40	23.40	23.38
		1	49	23.35	23.36	23.36
		25	0	22.39	22.41	22.44
		25	12	22.34	22.40	22.46
		25	25	22.35	22.44	22.48
		50	0	22.34	22.43	22.46
	16QAM	1	0	22.31	22.44	22.47
		1	25	22.27	22.40	22.50
		1	49	22.31	22.36	22.54
		25	0	21.37	21.38	21.60
		25	12	21.38	21.31	21.62
		25	25	21.43	21.26	21.59
		50	0	21.44	21.22	21.62
	64QAM	1	0	21.42	21.17	21.60
		1	25	21.40	21.16	21.62
		1	49	21.39	21.12	21.60
		25	0	20.33	20.06	20.59
		25	12	20.33	20.03	20.61
		25	25	20.34	20.02	20.64
		50	0	20.37	20.00	20.68

LTE Band 13

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23205	23230	23255
5MHz	QPSK	1	0	23.27	23.24	23.27
		1	13	23.28	23.26	23.28
		1	24	23.28	23.23	23.28
		12	0	22.44	22.34	22.36
		12	6	22.45	22.34	22.35
		12	13	22.45	22.31	22.30
		25	0	22.44	22.32	22.35
	16QAM	1	0	22.40	22.33	22.35
		1	13	22.42	22.34	22.39
		1	24	22.40	22.29	22.36
		12	0	21.52	21.36	21.55
		12	6	21.53	21.31	21.60
		12	13	21.54	21.32	21.55
		25	0	21.50	21.28	21.50
	64QAM	1	0	21.49	21.26	21.49
		1	13	21.49	21.27	21.50
		1	24	21.46	21.25	21.54
		12	0	20.42	20.27	20.49
		12	6	20.44	20.23	20.47
		12	13	20.42	20.25	20.49
		25	0	20.45	20.25	20.46

Bandwidth	Modulation	RB size	RB offset	Channel
				23230
10MHz	QPSK	1	0	23.27
		1	25	23.30
		1	49	23.30
		25	0	22.50
		25	12	22.48
		25	25	22.47
		50	0	22.51
	16QAM	1	0	22.53
		1	25	22.57
		1	49	22.55
		25	0	21.70
		25	12	21.74
		25	25	21.78
		50	0	21.81
	64QAM	1	0	21.79
		1	25	21.81
		1	49	21.84
		25	0	20.77
		25	12	20.74
		25	25	20.72
		50	0	20.74

LTE Band 17

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23755	23790	23825
5MHz	QPSK	1	0	23.28	23.34	23.34
		1	13	23.29	23.37	23.34
		1	24	23.26	23.36	23.32
		12	0	22.32	22.37	22.46
		12	6	22.27	22.41	22.49
		12	13	22.31	22.43	22.54
		25	0	22.31	22.44	22.51
	16QAM	1	0	22.35	22.39	22.56
		1	13	22.34	22.39	22.55
		1	24	22.32	22.39	22.56
		12	0	21.39	21.59	21.62
		12	6	21.42	21.64	21.62
		12	13	21.46	21.62	21.60
		25	0	21.49	21.62	21.58
	64QAM	1	0	21.46	21.58	21.60
		1	13	21.43	21.61	21.57
		1	24	21.43	21.65	21.62
		12	0	20.42	20.60	20.54
		12	6	20.40	20.56	20.50
		12	13	20.43	20.52	20.46
		25	0	20.39	20.50	20.49

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23780	23790	23800
10MHz	QPSK	1	0	23.31	23.37	23.34
		1	25	23.33	23.38	23.36
		1	49	23.30	23.34	23.31
		25	0	22.51	22.39	22.32
		25	12	22.48	22.39	22.31
		25	25	22.46	22.36	22.33
		50	0	22.41	22.32	22.29
	16QAM	1	0	22.37	22.30	22.31
		1	25	22.38	22.28	22.32
		1	49	22.38	22.26	22.35
		25	0	21.61	21.41	21.43
		25	12	21.57	21.36	21.46
		25	25	21.56	21.40	21.41
		50	0	21.58	21.35	21.45
	64QAM	1	0	21.61	21.32	21.43
		1	25	21.63	21.29	21.42
		1	49	21.62	21.31	21.40
		25	0	20.53	20.21	20.35
		25	12	20.49	20.20	20.37
		25	25	20.49	20.21	20.41
		50	0	20.50	20.20	20.38

LTE Band 38

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37775	38000	38225
5MHz	QPSK	1	0	22.45	22.55	22.59
		1	13	22.47	22.55	22.59
		1	24	22.45	22.51	22.55
		12	0	21.66	21.71	21.79
		12	6	21.64	21.69	21.80
		12	13	21.60	21.70	21.78
		25	0	21.57	21.69	21.79
	16QAM	1	0	21.53	21.68	21.83
		1	13	21.54	21.69	21.82
		1	24	21.58	21.66	21.81
		12	0	20.82	20.74	21.00
		12	6	20.81	20.77	21.02
		12	13	20.80	20.74	21.06
		25	0	20.84	20.70	21.02
	64QAM	1	0	20.87	20.70	21.05
		1	13	20.89	20.74	21.04
		1	24	20.86	20.75	21.06
		12	0	19.87	19.68	19.98
		12	6	19.89	19.72	20.02
		12	13	19.87	19.72	20.01
		25	0	19.87	19.74	19.96

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37800	38000	38200
10MHz	QPSK	1	0	22.54	22.54	22.57
		1	25	22.56	22.57	22.58
		1	49	22.51	22.54	22.55
		25	0	21.76	21.67	21.59
		25	12	21.71	21.67	21.62
		25	25	21.74	21.69	21.59
		50	0	21.75	21.72	21.57
	16QAM	1	0	21.77	21.74	21.58
		1	25	21.80	21.77	21.56
		1	49	21.77	21.81	21.51
		25	0	20.86	20.86	20.51
		25	12	20.89	20.82	20.51
		25	25	20.90	20.84	20.54
		50	0	20.89	20.80	20.51
	64QAM	1	0	20.90	20.81	20.53
		1	25	20.90	20.79	20.57
		1	49	20.93	20.84	20.62
		25	0	19.92	19.77	19.64
		25	12	19.93	19.79	19.67
		25	25	19.90	19.78	19.68
		50	0	19.85	19.79	19.71

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37825	38000	38175
15MHz	QPSK	1	0	22.53	22.59	22.50
		1	37	22.55	22.59	22.54
		1	74	22.51	22.58	22.54
		36	0	21.69	21.70	21.61
		36	20	21.72	21.75	21.57
		36	39	21.73	21.75	21.59
		75	0	21.75	21.78	21.56
	16QAM	1	0	21.75	21.81	21.53
		1	37	21.79	21.78	21.48
		1	74	21.80	21.77	21.51
		36	0	20.84	20.88	20.68
		36	20	20.84	20.90	20.70
		36	39	20.86	20.95	20.68
		75	0	20.82	20.93	20.68
	64QAM	1	0	20.87	20.91	20.72
		1	37	20.88	20.88	20.69
		1	74	20.92	20.86	20.73
		36	0	19.82	19.81	19.72
		36	20	19.86	19.81	19.73
		36	39	19.88	19.82	19.76
		75	0	19.89	19.83	19.74

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37850	38000	38150
20MHz	QPSK	1	0	22.57	22.58	22.55
		1	50	22.58	22.61	22.57
		1	99	22.56	22.58	22.54
		50	0	21.59	21.60	21.67
		50	25	21.62	21.60	21.62
		50	50	21.61	21.61	21.62
		100	0	21.64	21.65	21.65
	16QAM	1	0	21.66	21.62	21.61
		1	50	21.62	21.65	21.62
		1	99	21.59	21.65	21.64
		50	0	20.68	20.69	20.88
		50	25	20.64	20.66	20.89
		50	50	20.63	20.66	20.91
		100	0	20.67	20.62	20.88
	64QAM	1	0	20.66	20.66	20.88
		1	50	20.61	20.61	20.91
		1	99	20.61	20.64	20.96
		50	0	19.60	19.65	19.91
		50	25	19.55	19.63	19.91
		50	50	19.59	19.66	19.93
		100	0	19.58	19.65	19.90

LTE Band 41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40065	40640	41215
5MHz	QPSK	1	0	22.75	22.87	22.84
		1	13	22.80	22.87	22.84
		1	24	22.78	22.84	22.81
		12	0	21.91	21.93	21.82
		12	6	21.87	21.98	21.82
		12	13	21.90	22.01	21.86
		25	0	21.86	22.02	21.86
	16QAM	1	0	21.85	22.01	21.91
		1	13	21.85	22.03	21.87
		1	24	21.80	22.01	21.92
		12	0	20.93	21.02	21.10
		12	6	20.88	21.07	21.07
		12	13	20.89	21.09	21.06
		25	0	20.86	21.12	21.05
	64QAM	1	0	20.81	21.07	21.00
		1	13	20.82	21.05	20.99
		1	24	20.80	21.02	20.98
		12	0	19.79	19.92	19.89
		12	6	19.79	19.96	19.91
		12	13	19.80	19.94	19.92
		25	0	19.76	19.98	19.88

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40090	40640	41190
10MHz	QPSK	1	0	22.82	22.84	22.86
		1	25	22.84	22.86	22.86
		1	49	22.83	22.86	22.82
		25	0	21.90	22.04	22.04
		25	12	21.85	22.02	22.02
		25	25	21.82	22.05	21.99
		50	0	21.83	22.04	21.97
	16QAM	1	0	21.83	22.06	21.98
		1	25	21.78	22.02	22.00
		1	49	21.78	22.06	21.97
		25	0	20.99	21.11	21.11
		25	12	20.99	21.04	21.08
		25	25	20.98	21.01	21.08
		50	0	21.01	20.99	21.07
	64QAM	1	0	20.98	21.01	21.03
		1	25	21.01	20.97	21.07
		1	49	21.03	20.96	21.03
		25	0	20.00	19.96	20.00
		25	12	20.03	19.94	20.04
		25	25	20.02	19.94	20.01
		50	0	20.05	19.92	20.06

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40115	40640	41165
15MHz	QPSK	1	0	22.83	22.88	22.79
		1	37	22.83	22.88	22.84
		1	74	22.81	22.84	22.84
		36	0	21.95	22.04	21.84
		36	20	21.97	22.05	21.83
		36	39	21.92	22.01	21.84
		75	0	21.97	22.01	21.84
	16QAM	1	0	21.94	22.00	21.80
		1	37	21.89	22.01	21.83
		1	74	21.90	22.01	21.82
		36	0	20.98	21.12	20.86
		36	20	21.00	21.16	20.84
		36	39	21.04	21.14	20.88
		75	0	21.05	21.13	20.86
	64QAM	1	0	21.03	21.13	20.84
		1	37	21.00	21.11	20.83
		1	74	21.00	21.09	20.86
		36	0	20.02	20.05	19.79
		36	20	20.04	20.05	19.81
		36	39	20.05	20.05	19.77
		75	0	20.03	20.03	19.77

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40140	40640	41140
20MHz	QPSK	1	0	22.80	22.86	22.83
		1	50	22.85	22.90	22.86
		1	99	22.84	22.88	22.82
		50	0	21.91	22.07	21.84
		50	25	21.94	22.09	21.86
		50	50	21.92	22.07	21.85
		100	0	21.95	22.05	21.88
	16QAM	1	0	21.96	22.07	21.92
		1	50	21.95	22.10	21.93
		1	99	21.90	22.14	21.96
		50	0	20.93	21.40	20.99
		50	25	20.90	21.37	20.97
		50	50	20.93	21.38	20.95
		100	0	20.91	21.34	20.94
	64QAM	1	0	20.90	21.33	20.94
		1	50	20.87	21.34	20.91
		1	99	20.89	21.39	20.87
		50	0	19.91	20.30	19.87
		50	25	19.93	20.32	19.82
		50	50	19.90	20.32	19.87
		100	0	19.93	20.31	19.82

LTE Band 66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19207	19575	19943
1.4MHz	QPSK	1	0	22.94	22.80	22.88
		1	3	22.97	22.82	22.90
		1	5	22.93	22.81	22.90
		3	0	22.09	21.96	22.08
		3	1	22.10	21.95	22.07
		3	3	22.13	21.96	22.07
		6	0	22.17	21.96	22.11
	16QAM	1	0	22.21	21.98	22.12
		1	3	22.19	22.00	22.10
		1	5	22.24	22.02	22.08
		3	0	21.43	21.06	21.23
		3	1	21.48	21.10	21.18
		3	3	21.53	21.12	21.15
		6	0	21.51	21.11	21.18
	64QAM	1	0	21.46	21.12	21.14
		1	3	21.45	21.16	21.14
		1	5	21.45	21.17	21.14
		3	0	20.44	20.08	20.16
		3	1	20.41	20.08	20.11
		3	3	20.44	20.05	20.13
		6	0	20.48	20.05	20.08

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19215	19575	19935
3MHz	QPSK	1	0	22.99	22.86	22.92
		1	8	23.02	22.90	22.94
		1	14	22.99	22.87	22.90
		8	0	22.19	21.96	22.12
		8	4	22.15	22.00	22.13
		8	7	22.14	22.00	22.13
		15	0	22.17	22.04	22.10
	16QAM	1	0	22.19	22.06	22.08
		1	8	22.16	22.05	22.10
		1	14	22.20	22.03	22.12
		8	0	21.46	21.11	21.26
		8	4	21.47	21.14	21.22
		8	7	21.45	21.14	21.27
		15	0	21.44	21.15	21.23
	64QAM	1	0	21.49	21.13	21.24
		1	8	21.44	21.11	21.25
		1	14	21.39	21.11	21.28
		8	0	20.42	20.04	20.26
		8	4	20.47	20.09	20.23
		8	7	20.49	20.09	20.26
		15	0	20.48	20.11	20.23

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19225	19575	19925
5MHz	QPSK	1	0	22.97	22.91	22.97
		1	13	22.99	22.94	22.98
		1	24	22.95	22.92	22.97
		12	0	22.03	22.11	22.04
		12	6	21.99	22.08	22.07
		12	13	21.99	22.07	22.07
		25	0	22.00	22.09	22.04
	16QAM	1	0	22.00	22.10	22.04
		1	13	22.02	22.09	22.00
		1	24	21.99	22.05	22.02
		12	0	21.03	21.08	21.05
		12	6	21.07	21.10	21.02
		12	13	21.06	21.13	21.03
		25	0	21.05	21.17	20.98
	64QAM	1	0	21.03	21.16	21.01
		1	13	21.02	21.19	20.96
		1	24	21.06	21.19	20.95
		12	0	20.02	20.21	19.91
		12	6	20.04	20.24	19.87
		12	13	20.02	20.25	19.90
		25	0	20.05	20.23	19.94

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19250	19575	19900
10MHz	QPSK	1	0	22.96	22.93	23.00
		1	25	23.00	22.94	23.01
		1	49	22.98	22.92	23.00
		25	0	22.18	21.92	22.16
		25	12	22.18	21.91	22.14
		25	25	22.14	21.89	22.19
		50	0	22.18	21.90	22.24
	16QAM	1	0	22.14	21.87	22.21
		1	25	22.09	21.84	22.16
		1	49	22.14	21.89	22.13
		25	0	21.39	21.10	21.21
		25	12	21.33	21.14	21.27
		25	25	21.32	21.09	21.25
		50	0	21.36	21.10	21.28
	64QAM	1	0	21.31	21.06	21.32
		1	25	21.31	21.04	21.34
		1	49	21.31	21.06	21.37
		25	0	20.25	20.05	20.31
		25	12	20.26	20.07	20.28
		25	25	20.23	20.03	20.24
		50	0	20.25	20.06	20.21

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19275	19575	19875
15MHz	QPSK	1	0	22.95	22.97	22.95
		1	37	22.95	22.98	22.99
		1	74	22.92	22.95	22.95
		36	0	22.03	22.14	22.00
		36	20	22.00	22.13	21.96
		36	39	21.96	22.17	21.91
		75	0	21.93	22.13	21.88
	16QAM	1	0	21.95	22.11	21.83
		1	37	21.98	22.15	21.81
		1	74	21.93	22.14	21.82
		36	0	20.97	21.22	20.83
		36	20	21.00	21.17	20.88
		36	39	21.02	21.17	20.90
		75	0	21.05	21.15	20.90
	64QAM	1	0	21.01	21.16	20.86
		1	37	21.04	21.15	20.85
		1	74	21.01	21.20	20.87
		36	0	19.96	20.17	19.84
		36	20	19.96	20.14	19.80
		36	39	19.92	20.10	19.81
		75	0	19.89	20.08	19.85

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19300	19575	19850
20MHz	QPSK	1	0	23.00	22.99	22.94
		1	50	23.01	23.02	22.99
		1	99	22.97	23.01	22.95
		50	0	22.15	22.14	22.19
		50	25	22.19	22.18	22.18
		50	50	22.18	22.14	22.22
		100	0	22.23	22.10	22.23
	16QAM	1	0	22.19	22.07	22.20
		1	50	22.19	22.12	22.24
		1	99	22.15	22.07	22.25
		50	0	21.29	21.14	21.32
		50	25	21.34	21.15	21.38
		50	50	21.36	21.19	21.35
		100	0	21.36	21.19	21.33
	64QAM	1	0	21.33	21.19	21.32
		1	50	21.35	21.16	21.35
		1	99	21.35	21.16	21.37
		50	0	20.34	20.06	20.31
		50	25	20.37	20.02	20.32
		50	50	20.41	20.00	20.29
		100	0	20.43	19.96	20.33

Original Power(Ant3):

Band: GSM850	Burst Average Power (dBm)			Frame Average Power (dBm)		
	128	190	251	128	190	251
Channel						
GSM (CS)	33.10	33.17	33.12	24.10	24.17	24.12
GPRS/EDGE (GMSK, 1 Tx slot)	33.13	33.12	33.13	24.13	24.12	24.13
GPRS/EDGE (GMSK, 2 Tx slots)	31.28	31.32	31.31	25.28	25.32	25.31
GPRS/EDGE (GMSK, 3 Tx slots)	29.74	29.77	29.75	25.48	25.51	25.49
GPRS/EDGE (GMSK, 4 Tx slots)	28.32	28.35	28.35	25.32	25.35	25.35
EDGE (8PSK, 1 Tx slot)	27.40	27.69	27.62	18.40	18.69	18.62
EDGE (8PSK, 2 Tx slots)	25.26	25.49	25.47	19.26	19.49	19.47
EDGE (8PSK, 3 Tx slots)	23.03	23.22	23.23	18.77	18.96	18.97
EDGE (8PSK, 4 Tx slots)	22.30	22.56	22.57	19.30	19.56	19.57

Remark:

The conducted power of GSM850 is measured with RMS detector.

Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.

Per KDB941225 D01v03, the bolded GPRS 2 Tx mode was selected as the primary mode for SAR testing according to the highest frame- averaged output power table.

Band: DCS1900	Burst Average Power (dBm)			Frame Average Power (dBm)		
Channel	513	661	810	513	661	810
GSM (CS)	29.62	29.79	29.99	20.62	20.79	20.99
GPRS/EDGE (GMSK, 1 Tx slot)	29.60	29.75	29.98	20.60	20.75	20.98
GPRS/EDGE (GMSK, 2 Tx slots)	27.57	27.73	27.98	21.57	21.73	21.98
GPRS/EDGE (GMSK, 3 Tx slots)	25.97	26.14	26.43	21.71	21.88	22.17
GPRS/EDGE (GMSK, 4 Tx slots)	24.48	24.69	24.93	21.48	21.69	21.93
EDGE (8PSK, 1 Tx slot)	26.32	26.28	26.43	17.32	17.28	17.43
EDGE (8PSK, 2 Tx slots)	23.46	23.41	23.64	17.46	17.41	17.64
EDGE (8PSK, 3 Tx slots)	21.19	21.20	21.44	16.93	16.94	17.18
EDGE (8PSK, 4 Tx slots)	20.51	20.52	20.67	17.51	17.52	17.67

Remark:

The conducted power of GSM1900 is measured with RMS detector.

Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.

Per KDB941225 D01v03, the bolded GPRS 2 Tx mode was selected as the primary mode for SAR testing according to the highest frame- averaged output power table.

UMTS Band II		Conducted Power (dBm)		
		9262	9400	9538
WCDMA	12.2kbps RMC	23.50	23.64	23.53
	64kbps RMC	23.28	23.55	23.49
	144kbps RMC	23.26	23.52	23.52
	384kbps RMC	23.24	23.56	23.49
HSDPA	Subtest 1	23.37	23.58	23.49
	Subtest 2	22.67	22.91	22.87
	Subtest 3	22.68	22.80	22.73
	Subtest 4	22.70	22.85	22.77
HSUPA	Subtest 1	23.01	23.26	23.13
	Subtest 2	21.18	21.35	21.17
	Subtest 3	22.58	22.83	22.76
	Subtest 4	20.64	20.81	20.76
	Subtest 5	22.01	22.18	22.06

Remark:

- 1) The conducted power of UMTS Band II is measured with RMS detector
- 2) Per KDB 941225 D01v03, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

UMTS Band IV		Conducted Power (dBm)		
		1312	1412	1513
WCDMA	12.2kbps RMC	23.38	23.23	23.30
	64kbps RMC	23.31	23.18	23.25
	144kbps RMC	23.33	23.10	23.30
	384kbps RMC	23.36	23.22	23.30
HSDPA	Subtest 1	23.22	23.18	23.19
	Subtest 2	22.66	22.57	22.56
	Subtest 3	22.66	22.53	22.49
	Subtest 4	22.60	22.46	22.53
HSUPA	Subtest 1	22.95	22.81	22.84
	Subtest 2	21.14	21.04	21.11
	Subtest 3	22.46	22.44	22.39
	Subtest 4	20.64	20.46	20.55
	Subtest 5	21.90	21.79	21.96

Remark:

- 1) The conducted power of UMTS Band IV is measured with RMS detector
- 2) Per KDB 941225 D01v03, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

UMTS Band V		Conducted Power (dBm)		
		4133	4175	4232
WCDMA	12.2kbps RMC	23.68	23.76	23.79
	64kbps RMC	23.61	23.71	23.74
	144kbps RMC	23.63	23.64	23.79
	384kbps RMC	23.67	23.75	23.79
HSDPA	Subtest 1	23.57	23.62	23.64
	Subtest 2	23.10	23.11	23.13
	Subtest 3	23.02	23.02	23.03
	Subtest 4	22.95	23.06	22.98
HSUPA	Subtest 1	21.85	21.35	21.39
	Subtest 2	21.46	21.53	21.52
	Subtest 3	22.34	22.37	22.37
	Subtest 4	20.88	20.97	20.99
	Subtest 5	22.24	22.35	22.34

Remark:

- 1) The conducted power of UMTS Band V is measured with RMS detector
- 2) Per KDB 941225 D01v03, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

LTE Band 2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	22.42	22.23	22.06
		1	3	22.43	22.25	22.08
		1	5	22.41	22.21	22.03
		3	0	21.63	21.31	21.17
		3	1	21.63	21.33	21.21
		3	3	21.58	21.35	21.17
		6	0	21.58	21.37	21.14
	16QAM	1	0	21.62	21.40	21.12
		1	3	21.60	21.45	21.16
		1	5	21.60	21.42	21.16
		3	0	20.73	20.57	20.21
		3	1	20.78	20.57	20.16
		3	3	20.82	20.56	20.19
		6	0	20.85	20.58	20.21
	64QAM	1	0	20.83	20.56	20.22
		1	3	20.81	20.58	20.21
		1	5	20.78	20.57	20.18
		3	0	19.77	19.49	19.10
		3	1	19.79	19.46	19.12
		3	3	19.82	19.45	19.15
		6	0	19.86	19.41	19.14

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0	22.36	22.19	22.10
		1	8	22.39	22.23	22.13
		1	14	22.39	22.21	22.12
		8	0	21.63	21.21	21.15
		8	4	21.58	21.26	21.12
		8	7	21.56	21.24	21.16
		15	0	21.55	21.23	21.17
	16QAM	1	0	21.54	21.22	21.17
		1	8	21.57	21.21	21.15
		1	14	21.54	21.21	21.17
		8	0	20.57	20.44	20.23
		8	4	20.56	20.41	20.26
		8	7	20.51	20.43	20.26
		15	0	20.55	20.44	20.24
	64QAM	1	0	20.55	20.46	20.19
		1	8	20.56	20.49	20.21
		1	14	20.52	20.51	20.16
		8	0	19.51	19.45	19.09
		8	4	19.51	19.44	19.10
		8	7	19.47	19.44	19.06
		15	0	19.42	19.43	19.11

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	22.34	22.21	22.12
		1	13	22.34	22.22	22.14
		1	24	22.33	22.18	22.10
		12	0	21.49	21.23	21.30
		12	6	21.52	21.19	21.25
		12	13	21.50	21.17	21.22
		25	0	21.53	21.12	21.25
	16QAM	1	0	21.53	21.12	21.20
		1	13	21.53	21.12	21.24
		1	24	21.53	21.11	21.23
		12	0	20.67	20.23	20.28
		12	6	20.68	20.17	20.24
		12	13	20.66	20.16	20.22
		25	0	20.63	20.13	20.26
	64QAM	1	0	20.58	20.11	20.21
		1	13	20.55	20.12	20.20
		1	24	20.53	20.08	20.20
		12	0	19.55	19.10	19.10
		12	6	19.55	19.06	19.06
		12	13	19.55	19.03	19.06
		25	0	19.51	19.00	19.02

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	22.29	22.23	22.14
		1	25	22.32	22.25	22.16
		1	49	22.31	22.23	22.12
		25	0	21.54	21.40	21.13
		25	12	21.55	21.38	21.11
		25	25	21.57	21.41	21.13
		50	0	21.61	21.44	21.10
	16QAM	1	0	21.64	21.43	21.07
		1	25	21.59	21.47	21.04
		1	49	21.54	21.45	21.08
		25	0	20.77	20.52	20.20
		25	12	20.70	20.51	20.14
		25	25	20.69	20.49	20.10
		50	0	20.72	20.47	20.13
	64QAM	1	0	20.68	20.45	20.08
		1	25	20.70	20.42	20.12
		1	49	20.67	20.43	20.11
		25	0	19.57	19.39	19.09
		25	12	19.62	19.43	19.09
		25	25	19.57	19.45	19.09
		50	0	19.61	19.44	19.08

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	22.27	22.26	22.14
		1	37	22.30	22.27	22.15
		1	74	22.27	22.25	22.14
		36	0	21.45	21.35	21.17
		36	20	21.50	21.30	21.18
		36	39	21.54	21.31	21.20
		75	0	21.55	21.35	21.18
	16QAM	1	0	21.56	21.37	21.14
		1	37	21.54	21.34	21.16
		1	74	21.49	21.38	21.18
		36	0	20.59	20.54	20.34
		36	20	20.64	20.49	20.33
		36	39	20.66	20.47	20.36
		75	0	20.62	20.52	20.35
	64QAM	1	0	20.59	20.52	20.37
		1	37	20.60	20.51	20.39
		1	74	20.60	20.53	20.40
		36	0	19.54	19.53	19.39
		36	20	19.55	19.51	19.43
		36	39	19.59	19.48	19.39
		75	0	19.64	19.48	19.44

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	22.27	22.29	22.21
		1	50	22.29	22.31	22.22
		1	99	22.27	22.31	22.18
		50	0	21.41	21.31	21.37
		50	25	21.37	21.35	21.38
		50	50	21.38	21.34	21.40
		100	0	21.37	21.38	21.36
	16QAM	1	0	21.40	21.39	21.35
		1	50	21.37	21.39	21.34
		1	99	21.37	21.37	21.31
		50	0	20.44	20.40	20.50
		50	25	20.50	20.39	20.45
		50	50	20.53	20.41	20.43
		100	0	20.56	20.43	20.45
	64QAM	1	0	20.53	20.41	20.49
		1	50	20.52	20.36	20.46
		1	99	20.55	20.38	20.42
		50	0	19.47	19.29	19.43
		50	25	19.51	19.26	19.39
		50	50	19.51	19.22	19.39
		100	0	19.50	19.19	19.38

LTE Band 4

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	22.21	22.25	22.33
		1	3	22.23	22.27	22.35
		1	5	22.19	22.23	22.35
		3	0	21.36	21.37	21.36
		3	1	21.35	21.39	21.31
		3	3	21.30	21.40	21.28
		6	0	21.29	21.38	21.31
	16QAM	1	0	21.25	21.35	21.31
		1	3	21.28	21.38	21.34
		1	5	21.27	21.36	21.34
		3	0	20.48	20.52	20.34
		3	1	20.44	20.46	20.30
		3	3	20.43	20.42	20.33
		6	0	20.45	20.39	20.35
	64QAM	1	0	20.44	20.35	20.37
		1	3	20.39	20.32	20.32
		1	5	20.44	20.31	20.36
		3	0	19.38	19.28	19.37
		3	1	19.37	19.30	19.37
		3	3	19.33	19.26	19.37
		6	0	19.33	19.23	19.39

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19965	20175	20385
3MHz	QPSK	1	0	22.31	22.33	22.31
		1	8	22.32	22.34	22.31
		1	14	22.28	22.31	22.31
		8	0	21.39	21.42	21.49
		8	4	21.43	21.39	21.54
		8	7	21.44	21.39	21.58
		15	0	21.41	21.41	21.60
	16QAM	1	0	21.44	21.37	21.59
		1	8	21.45	21.35	21.61
		1	14	21.45	21.31	21.63
		8	0	20.56	20.34	20.83
		8	4	20.55	20.34	20.87
		8	7	20.54	20.31	20.88
		15	0	20.58	20.33	20.89
	64QAM	1	0	20.56	20.35	20.86
		1	8	20.55	20.30	20.82
		1	14	20.60	20.29	20.87
		8	0	19.55	19.24	19.77
		8	4	19.59	19.27	19.79
		8	7	19.61	19.28	19.76
		15	0	19.56	19.25	19.75

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0	22.31	22.25	22.29
		1	13	22.33	22.30	22.30
		1	24	22.33	22.27	22.26
		12	0	21.45	21.48	21.37
		12	6	21.40	21.44	21.39
		12	13	21.39	21.43	21.36
		25	0	21.35	21.44	21.38
	16QAM	1	0	21.31	21.42	21.36
		1	13	21.30	21.42	21.32
		1	24	21.27	21.46	21.28
		12	0	20.36	20.60	20.52
		12	6	20.32	20.59	20.56
		12	13	20.27	20.54	20.55
		25	0	20.25	20.54	20.53
	64QAM	1	0	20.25	20.49	20.53
		1	13	20.22	20.50	20.51
		1	24	20.21	20.50	20.52
		12	0	19.17	19.46	19.46
		12	6	19.21	19.47	19.47
		12	13	19.18	19.44	19.48
		25	0	19.21	19.45	19.52

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0	22.36	22.28	22.26
		1	25	22.36	22.29	22.30
		1	49	22.36	22.28	22.29
		25	0	21.56	21.31	21.53
		25	12	21.51	21.27	21.56
		25	25	21.47	21.25	21.53
		50	0	21.48	21.28	21.52
	16QAM	1	0	21.49	21.24	21.56
		1	25	21.49	21.24	21.55
		1	49	21.53	21.21	21.59
		25	0	20.62	20.44	20.72
		25	12	20.63	20.47	20.75
		25	25	20.63	20.51	20.79
		50	0	20.60	20.55	20.80
	64QAM	1	0	20.63	20.54	20.81
		1	25	20.64	20.51	20.78
		1	49	20.68	20.48	20.78
		25	0	19.67	19.41	19.74
		25	12	19.65	19.39	19.72
		25	25	19.67	19.41	19.71
		50	0	19.70	19.44	19.73

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	22.30	22.31	22.33
		1	37	22.33	22.32	22.34
		1	74	22.31	22.28	22.31
		36	0	21.47	21.50	21.34
		36	20	21.46	21.46	21.32
		36	39	21.50	21.45	21.31
		75	0	21.52	21.41	21.27
	16QAM	1	0	21.51	21.42	21.32
		1	37	21.52	21.42	21.34
		1	74	21.55	21.38	21.39
		36	0	20.62	20.39	20.57
		36	20	20.61	20.44	20.55
		36	39	20.64	20.48	20.60
		75	0	20.66	20.51	20.60
	64QAM	1	0	20.68	20.52	20.61
		1	37	20.64	20.49	20.66
		1	74	20.65	20.46	20.65
		36	0	19.65	19.45	19.65
		36	20	19.60	19.46	19.64
		36	39	19.62	19.51	19.63
		75	0	19.62	19.48	19.60

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	22.30	22.37	22.34
		1	50	22.35	22.38	22.36
		1	99	22.33	22.34	22.33
		50	0	21.41	21.40	21.55
		50	25	21.41	21.36	21.56
		50	50	21.44	21.31	21.59
		100	0	21.47	21.26	21.63
	16QAM	1	0	21.45	21.24	21.62
		1	50	21.44	21.27	21.65
		1	99	21.42	21.22	21.66
		50	0	20.53	20.42	20.78
		50	25	20.56	20.37	20.83
		50	50	20.57	20.39	20.80
		100	0	20.55	20.41	20.79
	64QAM	1	0	20.52	20.44	20.78
		1	50	20.56	20.43	20.79
		1	99	20.58	20.48	20.80
		50	0	19.50	19.45	19.73
		50	25	19.48	19.49	19.78
		50	50	19.47	19.51	19.83
		100	0	19.46	19.55	19.78

LTE Band 5

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	23.14	23.14	23.09
		1	3	23.14	23.16	23.14
		1	5	23.14	23.14	23.14
		3	0	22.36	22.18	22.19
		3	1	22.34	22.22	22.20
		3	3	22.32	22.26	22.17
		6	0	22.30	22.28	22.21
	16QAM	1	0	22.27	22.25	22.19
		1	3	22.22	22.29	22.14
		1	5	22.22	22.27	22.13
		3	0	21.45	21.31	21.27
		3	1	21.44	21.30	21.31
		3	3	21.48	21.29	21.34
		6	0	21.52	21.28	21.36
	64QAM	1	0	21.55	21.24	21.40
		1	3	21.54	21.28	21.43
		1	5	21.49	21.24	21.44
		3	0	20.43	20.17	20.37
		3	1	20.47	20.21	20.35
		3	3	20.51	20.17	20.32
		6	0	20.55	20.17	20.32

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0	23.06	23.18	23.20
		1	8	23.11	23.19	23.22
		1	14	23.10	23.18	23.19
		8	0	22.28	22.39	22.27
		8	4	22.24	22.38	22.27
		8	7	22.27	22.33	22.28
		15	0	22.29	22.36	22.29
	16QAM	1	0	22.27	22.39	22.29
		1	8	22.26	22.39	22.29
		1	14	22.23	22.35	22.24
		8	0	21.37	21.42	21.26
		8	4	21.40	21.46	21.20
		8	7	21.39	21.48	21.19
		15	0	21.43	21.43	21.23
	64QAM	1	0	21.41	21.44	21.25
		1	8	21.37	21.40	21.21
		1	14	21.37	21.42	21.25
		8	0	20.27	20.37	20.24
		8	4	20.26	20.41	20.29
		8	7	20.24	20.43	20.33
		15	0	20.24	20.41	20.33

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0	23.13	23.14	23.17
		1	13	23.14	23.18	23.18
		1	24	23.10	23.14	23.18
		12	0	22.32	22.39	22.28
		12	6	22.35	22.35	22.27
		12	13	22.34	22.36	22.26
		25	0	22.35	22.35	22.28
	16QAM	1	0	22.33	22.33	22.26
		1	13	22.33	22.29	22.26
		1	24	22.33	22.31	22.28
		12	0	21.54	21.32	21.35
		12	6	21.49	21.32	21.35
		12	13	21.46	21.27	21.40
		25	0	21.45	21.31	21.41
	64QAM	1	0	21.46	21.28	21.40
		1	13	21.45	21.30	21.35
		1	24	21.42	21.30	21.33
		12	0	20.36	20.32	20.24
		12	6	20.35	20.34	20.27
		12	13	20.34	20.35	20.28
		25	0	20.36	20.36	20.26

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0	23.17	23.20	23.13
		1	25	23.18	23.21	23.18
		1	49	23.16	23.20	23.17
		25	0	22.20	22.29	22.38
		25	12	22.22	22.24	22.35
		25	25	22.18	22.22	22.34
		50	0	22.19	22.22	22.35
	16QAM	1	0	22.16	22.26	22.33
		1	25	22.12	22.24	22.29
		1	49	22.17	22.22	22.28
		25	0	21.22	21.37	21.47
		25	12	21.18	21.31	21.48
		25	25	21.22	21.31	21.52
		50	0	21.20	21.30	21.48
	64QAM	1	0	21.20	21.25	21.53
		1	25	21.16	21.25	21.57
		1	49	21.20	21.23	21.58
		25	0	20.14	20.24	20.52
		25	12	20.10	20.20	20.50
		25	25	20.12	20.24	20.50
		50	0	20.12	20.22	20.48

LTE Band 7

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	22.41	22.40	22.39
		1	13	22.44	22.40	22.39
		1	24	22.41	22.40	22.36
		12	0	21.62	21.55	21.40
		12	6	21.59	21.51	21.41
		12	13	21.58	21.54	21.43
		25	0	21.57	21.50	21.47
	16QAM	1	0	21.59	21.51	21.46
		1	13	21.59	21.51	21.44
		1	24	21.61	21.47	21.47
		12	0	20.81	20.68	20.59
		12	6	20.81	20.72	20.55
		12	13	20.77	20.69	20.56
		25	0	20.73	20.67	20.60
	64QAM	1	0	20.76	20.71	20.65
		1	13	20.80	20.69	20.66
		1	24	20.78	20.64	20.66
		12	0	19.70	19.61	19.56
		12	6	19.69	19.59	19.61
		12	13	19.67	19.60	19.60
		25	0	19.67	19.59	19.60

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0	22.38	22.38	22.42
		1	25	22.43	22.42	22.45
		1	49	22.40	22.40	22.44
		25	0	21.45	21.55	21.59
		25	12	21.50	21.53	21.60
		25	25	21.50	21.55	21.60
		50	0	21.50	21.52	21.62
	16QAM	1	0	21.54	21.50	21.61
		1	25	21.54	21.46	21.64
		1	49	21.56	21.42	21.63
		25	0	20.71	20.53	20.69
		25	12	20.64	20.53	20.74
		25	25	20.60	20.48	20.78
		50	0	20.60	20.52	20.82
	64QAM	1	0	20.60	20.49	20.81
		1	25	20.57	20.47	20.79
		1	49	20.55	20.43	20.74
		25	0	19.49	19.40	19.64
		25	12	19.48	19.41	19.62
		25	25	19.51	19.45	19.65
		50	0	19.54	19.49	19.70

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0	22.41	22.37	22.38
		1	37	22.42	22.42	22.41
		1	74	22.40	22.41	22.39
		36	0	21.51	21.64	21.41
		36	20	21.54	21.59	21.38
		36	39	21.49	21.60	21.42
		75	0	21.50	21.62	21.42
	16QAM	1	0	21.55	21.58	21.46
		1	37	21.53	21.56	21.49
		1	74	21.56	21.56	21.52
		36	0	20.80	20.62	20.55
		36	20	20.81	20.56	20.57
		36	39	20.83	20.52	20.60
		75	0	20.82	20.49	20.61
	64QAM	1	0	20.80	20.47	20.60
		1	37	20.82	20.50	20.57
		1	74	20.85	20.54	20.57
		36	0	19.81	19.47	19.50
		36	20	19.86	19.42	19.47
		36	39	19.81	19.44	19.49
		75	0	19.86	19.49	19.49

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0	22.39	22.43	22.39
		1	50	22.40	22.44	22.43
		1	99	22.36	22.43	22.40
		50	0	21.41	21.50	21.53
		50	25	21.43	21.48	21.56
		50	50	21.42	21.46	21.56
		100	0	21.39	21.51	21.55
	16QAM	1	0	21.43	21.47	21.60
		1	50	21.42	21.49	21.61
		1	99	21.45	21.44	21.63
		50	0	20.55	20.66	20.82
		50	25	20.50	20.61	20.76
		50	50	20.51	20.65	20.78
		100	0	20.51	20.62	20.83
	64QAM	1	0	20.49	20.60	20.81
		1	50	20.47	20.61	20.77
		1	99	20.45	20.63	20.77
		50	0	19.40	19.55	19.74
		50	25	19.36	19.57	19.75
		50	50	19.31	19.62	19.71
		100	0	19.32	19.60	19.73

LTE Band 12

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23017	23095	23173
1.4MHz	QPSK	1	0	23.28	23.35	23.30
		1	3	23.29	23.39	23.33
		1	5	23.27	23.34	23.30
		3	0	22.39	22.47	22.32
		3	1	22.44	22.48	22.32
		3	3	22.47	22.45	22.27
		6	0	22.51	22.46	22.23
	16QAM	1	0	22.50	22.51	22.22
		1	3	22.48	22.47	22.20
		1	5	22.47	22.44	22.16
		3	0	21.66	21.49	21.39
		3	1	21.71	21.48	21.43
		3	3	21.73	21.44	21.40
		6	0	21.72	21.40	21.41
	64QAM	1	0	21.68	21.40	21.44
		1	3	21.72	21.38	21.47
		1	5	21.72	21.38	21.48
		3	0	20.67	20.32	20.45
		3	1	20.62	20.30	20.48
		3	3	20.63	20.33	20.50
		6	0	20.67	20.32	20.49

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23025	23095	23165
3MHz	QPSK	1	0	23.33	23.36	23.30
		1	8	23.37	23.40	23.34
		1	14	23.33	23.37	23.31
		8	0	22.46	22.50	22.37
		8	4	22.47	22.53	22.42
		8	7	22.46	22.49	22.47
		15	0	22.49	22.53	22.43
	16QAM	1	0	22.53	22.58	22.39
		1	8	22.49	22.55	22.36
		1	14	22.44	22.58	22.39
		8	0	21.61	21.72	21.61
		8	4	21.57	21.73	21.57
		8	7	21.56	21.75	21.52
		15	0	21.56	21.79	21.48
	64QAM	1	0	21.55	21.80	21.49
		1	8	21.57	21.76	21.52
		1	14	21.55	21.75	21.53
		8	0	20.46	20.68	20.51
		8	4	20.47	20.70	20.46
		8	7	20.50	20.70	20.41
		15	0	20.52	20.68	20.45

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23035	23095	23155
5MHz	QPSK	1	0	23.34	23.37	23.31
		1	13	23.35	23.40	23.35
		1	24	23.34	23.36	23.34
		12	0	22.59	22.47	22.43
		12	6	22.56	22.43	22.41
		12	13	22.53	22.41	22.42
		25	0	22.54	22.40	22.46
	16QAM	1	0	22.57	22.35	22.45
		1	13	22.58	22.31	22.44
		1	24	22.57	22.34	22.45
		12	0	21.60	21.41	21.55
		12	6	21.57	21.43	21.50
		12	13	21.62	21.38	21.53
		25	0	21.62	21.42	21.50
	64QAM	1	0	21.66	21.46	21.54
		1	13	21.62	21.47	21.57
		1	24	21.58	21.52	21.61
		12	0	20.53	20.48	20.60
		12	6	20.56	20.46	20.58
		12	13	20.60	20.47	20.60
		25	0	20.60	20.45	20.63

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23060	23095	23130
10MHz	QPSK	1	0	23.37	23.43	23.32
		1	25	23.39	23.45	23.35
		1	49	23.38	23.43	23.35
		25	0	22.55	22.57	22.39
		25	12	22.51	22.54	22.35
		25	25	22.53	22.58	22.36
		50	0	22.56	22.59	22.32
	16QAM	1	0	22.55	22.57	22.35
		1	25	22.56	22.55	22.38
		1	49	22.56	22.54	22.42
		25	0	21.82	21.67	21.55
		25	12	21.79	21.60	21.58
		25	25	21.75	21.65	21.59
		50	0	21.79	21.60	21.56
	64QAM	1	0	21.84	21.63	21.56
		1	25	21.85	21.63	21.51
		1	49	21.81	21.60	21.55
		25	0	20.83	20.59	20.54
		25	12	20.78	20.63	20.56
		25	25	20.77	20.59	20.51
		50	0	20.81	20.55	20.54

LTE Band 13

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23205	23230	23255
5MHz	QPSK	1	0	23.23	23.17	23.19
		1	13	23.23	23.19	23.20
		1	24	23.19	23.17	23.17
		12	0	22.39	22.36	22.25
		12	6	22.41	22.39	22.30
		12	13	22.45	22.37	22.29
		25	0	22.46	22.33	22.32
	16QAM	1	0	22.42	22.37	22.33
		1	13	22.38	22.40	22.36
		1	24	22.40	22.40	22.40
		12	0	21.43	21.58	21.50
		12	6	21.44	21.59	21.48
		12	13	21.40	21.59	21.43
		25	0	21.36	21.55	21.40
	64QAM	1	0	21.41	21.58	21.36
		1	13	21.36	21.62	21.34
		1	24	21.33	21.58	21.30
		12	0	20.34	20.56	20.31
		12	6	20.29	20.58	20.33
		12	13	20.34	20.60	20.33
		25	0	20.29	20.59	20.38

Bandwidth	Modulation	RB size	RB offset	Channel
				23230
10MHz	QPSK	1	0	23.23
		1	25	23.23
		1	49	23.21
		25	0	22.25
		25	12	22.29
		25	25	22.34
		50	0	22.36
	16QAM	1	0	22.37
		1	25	22.36
		1	49	22.39
		25	0	21.41
		25	12	21.41
		25	25	21.44
		50	0	21.46
	64QAM	1	0	21.50
		1	25	21.50
		1	49	21.49
		25	0	20.41
		25	12	20.45
		25	25	20.48
		50	0	20.45

LTE Band 17

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23755	23790	23825
5MHz	QPSK	1	0	23.24	23.30	23.17
		1	13	23.25	23.30	23.22
		1	24	23.25	23.28	23.20
		12	0	22.34	22.29	22.24
		12	6	22.31	22.25	22.28
		12	13	22.28	22.29	22.31
		25	0	22.25	22.25	22.33
	16QAM	1	0	22.24	22.23	22.33
		1	13	22.25	22.27	22.33
		1	24	22.23	22.25	22.35
		12	0	21.35	21.41	21.38
		12	6	21.40	21.39	21.33
		12	13	21.41	21.38	21.35
		25	0	21.36	21.42	21.40
	64QAM	1	0	21.33	21.42	21.39
		1	13	21.29	21.46	21.36
		1	24	21.30	21.45	21.38
		12	0	20.22	20.41	20.37
		12	6	20.19	20.38	20.37
		12	13	20.23	20.37	20.33
		25	0	20.20	20.37	20.28

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23780	23790	23800
10MHz	QPSK	1	0	23.26	23.29	23.23
		1	25	23.30	23.30	23.24
		1	49	23.27	23.26	23.22
		25	0	22.36	22.31	22.47
		25	12	22.37	22.30	22.50
		25	25	22.35	22.31	22.53
		50	0	22.32	22.32	22.56
	16QAM	1	0	22.36	22.31	22.53
		1	25	22.35	22.34	22.58
		1	49	22.36	22.29	22.61
		25	0	21.51	21.54	21.71
		25	12	21.46	21.50	21.70
		25	25	21.51	21.50	21.68
		50	0	21.48	21.52	21.73
	64QAM	1	0	21.50	21.49	21.71
		1	25	21.52	21.51	21.73
		1	49	21.53	21.47	21.74
		25	0	20.49	20.39	20.75
		25	12	20.44	20.42	20.74
		25	25	20.40	20.40	20.78
		50	0	20.38	20.41	20.80

LTE Band 38

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37775	38000	38225
5MHz	QPSK	1	0	22.51	22.63	22.74
		1	13	22.56	22.66	22.74
		1	24	22.52	22.65	22.72
		12	0	21.64	21.74	21.78
		12	6	21.60	21.76	21.77
		12	13	21.60	21.73	21.82
		25	0	21.63	21.74	21.83
	16QAM	1	0	21.63	21.77	21.84
		1	13	21.63	21.81	21.85
		1	24	21.61	21.82	21.86
		12	0	20.76	20.83	20.89
		12	6	20.78	20.87	20.85
		12	13	20.81	20.87	20.80
		25	0	20.82	20.86	20.82
	64QAM	1	0	20.80	20.91	20.84
		1	13	20.83	20.88	20.88
		1	24	20.86	20.91	20.91
		12	0	19.82	19.93	19.86
		12	6	19.80	19.89	19.83
		12	13	19.81	19.93	19.85
		25	0	19.83	19.90	19.85

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37800	38000	38200
10MHz	QPSK	1	0	22.61	22.60	22.69
		1	25	22.63	22.65	22.70
		1	49	22.59	22.64	22.69
		25	0	21.80	21.65	21.75
		25	12	21.80	21.62	21.71
		25	25	21.79	21.60	21.68
		50	0	21.82	21.59	21.70
	16QAM	1	0	21.78	21.63	21.72
		1	25	21.73	21.59	21.69
		1	49	21.68	21.60	21.69
		25	0	20.86	20.61	20.94
		25	12	20.83	20.61	20.92
		25	25	20.78	20.63	20.93
		50	0	20.80	20.64	20.96
	64QAM	1	0	20.77	20.67	20.96
		1	25	20.75	20.66	20.95
		1	49	20.79	20.62	20.97
		25	0	19.81	19.64	19.89
		25	12	19.84	19.66	19.90
		25	25	19.86	19.70	19.93
		50	0	19.87	19.74	19.93

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37825	38000	38175
15MHz	QPSK	1	0	22.66	22.66	22.65
		1	37	22.68	22.66	22.66
		1	74	22.63	22.66	22.61
		36	0	21.83	21.71	21.69
		36	20	21.80	21.73	21.68
		36	39	21.83	21.73	21.73
		75	0	21.81	21.75	21.72
	16QAM	1	0	21.86	21.74	21.76
		1	37	21.83	21.72	21.78
		1	74	21.83	21.75	21.82
		36	0	20.95	20.89	20.91
		36	20	20.98	20.93	20.86
		36	39	20.98	20.94	20.90
		75	0	21.00	20.90	20.95
	64QAM	1	0	20.99	20.88	20.91
		1	37	20.98	20.93	20.87
		1	74	20.96	20.97	20.89
		36	0	19.95	19.92	19.79
		36	20	19.97	19.88	19.80
		36	39	20.02	19.86	19.83
		75	0	20.02	19.90	19.79

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37850	38000	38150
20MHz	QPSK	1	0	22.65	22.69	22.64
		1	50	22.69	22.71	22.69
		1	99	22.68	22.67	22.64
		50	0	21.74	21.67	21.81
		50	25	21.70	21.64	21.78
		50	50	21.70	21.65	21.75
		100	0	21.68	21.69	21.70
	16QAM	1	0	21.63	21.73	21.71
		1	50	21.66	21.70	21.73
		1	99	21.71	21.73	21.70
		50	0	20.86	20.85	20.90
		50	25	20.91	20.79	20.84
		50	50	20.88	20.74	20.85
		100	0	20.92	20.73	20.84
	64QAM	1	0	20.93	20.71	20.84
		1	50	20.92	20.71	20.86
		1	99	20.95	20.75	20.90
		50	0	19.92	19.70	19.80
		50	25	19.96	19.74	19.81
		50	50	19.96	19.71	19.81
		100	0	20.00	19.76	19.82

LTE Band 41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40065	40640	41215
5MHz	QPSK	1	0	22.90	22.98	22.89
		1	13	22.93	23.00	22.92
		1	24	22.92	22.99	22.92
		12	0	21.94	22.16	22.08
		12	6	21.94	22.15	22.07
		12	13	21.98	22.15	22.05
		25	0	22.03	22.15	22.08
	16QAM	1	0	22.00	22.16	22.05
		1	13	22.02	22.17	22.07
		1	24	22.03	22.13	22.08
		12	0	21.05	21.25	21.08
		12	6	21.03	21.28	21.01
		12	13	21.07	21.25	20.97
		25	0	21.05	21.20	20.95
	64QAM	1	0	21.10	21.19	20.91
		1	13	21.13	21.24	20.90
		1	24	21.12	21.28	20.90
		12	0	20.12	20.29	19.86
		12	6	20.17	20.33	19.90
		12	13	20.17	20.33	19.92
		25	0	20.14	20.34	19.94

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40090	40640	41190
10MHz	QPSK	1	0	22.94	23.01	22.89
		1	25	22.94	23.02	22.94
		1	49	22.93	22.98	22.90
		25	0	21.95	22.11	21.96
		25	12	21.95	22.16	21.97
		25	25	21.91	22.14	22.02
		50	0	21.90	22.18	21.97
	16QAM	1	0	21.89	22.14	21.98
		1	25	21.85	22.11	22.00
		1	49	21.85	22.10	22.02
		25	0	20.85	21.34	21.11
		25	12	20.85	21.40	21.10
		25	25	20.85	21.45	21.10
		50	0	20.80	21.42	21.13
	64QAM	1	0	20.83	21.38	21.15
		1	25	20.79	21.38	21.19
		1	49	20.77	21.35	21.16
		25	0	19.73	20.35	20.06
		25	12	19.74	20.30	20.07
		25	25	19.75	20.31	20.06
		50	0	19.77	20.36	20.09

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40115	40640	41165
15MHz	QPSK	1	0	22.97	22.98	22.90
		1	37	22.97	23.01	22.91
		1	74	22.94	22.97	22.87
		36	0	22.03	22.17	21.87
		36	20	21.99	22.19	21.83
		36	39	21.94	22.24	21.83
		75	0	21.90	22.20	21.81
	16QAM	1	0	21.92	22.18	21.78
		1	37	21.93	22.21	21.77
		1	74	21.92	22.16	21.79
		36	0	20.96	21.36	20.91
		36	20	21.00	21.41	20.84
		36	39	21.01	21.39	20.87
		75	0	21.05	21.38	20.91
	64QAM	1	0	21.03	21.35	20.90
		1	37	20.99	21.40	20.94
		1	74	21.03	21.38	20.95
		36	0	20.05	20.39	19.96
		36	20	20.02	20.37	20.01
		36	39	20.00	20.32	20.02
		75	0	19.98	20.36	20.01

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40140	40640	41140
20MHz	QPSK	1	0	23.00	22.99	22.91
		1	50	23.01	23.01	22.91
		1	99	22.96	23.01	22.87
		50	0	22.15	22.15	21.90
		50	25	22.11	22.18	21.85
		50	50	22.07	22.13	21.90
		100	0	22.08	22.13	21.93
	16QAM	1	0	22.13	22.08	21.94
		1	50	22.16	22.11	21.97
		1	99	22.14	22.13	21.98
		50	0	21.20	21.36	21.07
		50	25	21.16	21.42	21.00
		50	50	21.14	21.46	21.02
		100	0	21.10	21.46	21.03
	64QAM	1	0	21.10	21.42	21.02
		1	50	21.05	21.43	21.02
		1	99	21.08	21.46	21.02
		50	0	20.03	20.42	20.05
		50	25	20.03	20.39	20.06
		50	50	20.00	20.38	20.02
		100	0	20.03	20.37	20.05

LTE Band 66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19207	19575	19943
1.4MHz	QPSK	1	0	22.60	22.69	22.76
		1	3	22.60	22.73	22.78
		1	5	22.58	22.70	22.74
		3	0	21.77	21.92	21.74
		3	1	21.74	21.89	21.71
		3	3	21.75	21.87	21.71
		6	0	21.72	21.90	21.66
	16QAM	1	0	21.68	21.92	21.62
		1	3	21.66	21.87	21.63
		1	5	21.64	21.86	21.62
		3	0	20.82	20.91	20.71
		3	1	20.79	20.93	20.65
		3	3	20.82	20.91	20.62
		6	0	20.86	20.96	20.57
	64QAM	1	0	20.85	20.98	20.57
		1	3	20.81	20.98	20.60
		1	5	20.85	21.03	20.64
		3	0	19.87	19.96	19.60
		3	1	19.91	19.99	19.59
		3	3	19.94	19.99	19.58
		6	0	19.91	20.04	19.56

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19215	19575	19935
3MHz	QPSK	1	0	22.60	22.73	22.72
		1	8	22.63	22.75	22.75
		1	14	22.62	22.73	22.74
		8	0	21.75	21.79	21.89
		8	4	21.80	21.78	21.86
		8	7	21.83	21.78	21.87
		15	0	21.81	21.77	21.89
	16QAM	1	0	21.86	21.80	21.89
		1	8	21.85	21.75	21.86
		1	14	21.90	21.78	21.81
		8	0	21.13	20.87	20.98
		8	4	21.12	20.87	20.92
		8	7	21.16	20.83	20.89
		15	0	21.14	20.78	20.94
	64QAM	1	0	21.16	20.82	20.95
		1	8	21.20	20.83	20.90
		1	14	21.16	20.81	20.90
		8	0	20.08	19.80	19.93
		8	4	20.11	19.75	19.98
		8	7	20.14	19.71	19.95
		15	0	20.13	19.74	19.91

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19225	19575	19925
5MHz	QPSK	1	0	22.64	22.73	22.70
		1	13	22.67	22.76	22.75
		1	24	22.63	22.73	22.73
		12	0	21.86	21.85	21.81
		12	6	21.87	21.87	21.82
		12	13	21.88	21.85	21.82
		25	0	21.91	21.80	21.87
	16QAM	1	0	21.95	21.76	21.85
		1	13	21.97	21.72	21.86
		1	24	21.95	21.71	21.85
		12	0	21.07	20.85	20.98
		12	6	21.10	20.91	21.02
		12	13	21.05	20.87	21.00
		25	0	21.10	20.89	21.01
	64QAM	1	0	21.11	20.85	21.06
		1	13	21.10	20.87	21.07
		1	24	21.11	20.89	21.09
		12	0	20.13	19.85	20.00
		12	6	20.11	19.88	20.04
		12	13	20.10	19.90	20.06
		25	0	20.11	19.94	20.11

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19250	19575	19900
10MHz	QPSK	1	0	22.60	22.73	22.67
		1	25	22.65	22.75	22.72
		1	49	22.61	22.72	22.69
		25	0	21.86	21.75	21.94
		25	12	21.82	21.76	21.95
		25	25	21.83	21.80	21.99
		50	0	21.84	21.81	21.96
	16QAM	1	0	21.88	21.83	21.93
		1	25	21.89	21.81	21.96
		1	49	21.91	21.85	21.98
		25	0	21.12	21.00	21.09
		25	12	21.09	20.98	21.12
		25	25	21.05	20.98	21.14
		50	0	21.01	20.98	21.16
	64QAM	1	0	20.99	21.01	21.12
		1	25	20.96	20.99	21.12
		1	49	21.01	20.99	21.07
		25	0	19.99	19.90	20.08
		25	12	19.99	19.89	20.12
		25	25	20.04	19.86	20.12
		50	0	20.07	19.89	20.11

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19275	19575	19875
15MHz	QPSK	1	0	22.64	22.68	22.67
		1	37	22.67	22.71	22.69
		1	74	22.66	22.69	22.69
		36	0	21.81	21.78	21.73
		36	20	21.77	21.80	21.76
		36	39	21.73	21.80	21.73
		75	0	21.74	21.80	21.76
	16QAM	1	0	21.79	21.84	21.81
		1	37	21.83	21.87	21.81
		1	74	21.85	21.84	21.84
		36	0	21.09	21.00	20.86
		36	20	21.12	20.94	20.92
		36	39	21.14	20.92	20.89
		75	0	21.14	20.92	20.91
	64QAM	1	0	21.13	20.95	20.90
		1	37	21.15	20.98	20.93
		1	74	21.19	20.94	20.94
		36	0	20.22	19.87	19.87
		36	20	20.27	19.87	19.87
		36	39	20.31	19.87	19.91
		75	0	20.28	19.87	19.93

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19300	19575	19850
20MHz	QPSK	1	0	22.73	22.74	22.66
		1	50	22.74	22.75	22.68
		1	99	22.72	22.72	22.67
		50	0	21.92	21.73	21.84
		50	25	21.95	21.73	21.89
		50	50	21.90	21.74	21.86
		100	0	21.93	21.77	21.85
	16QAM	1	0	21.93	21.79	21.86
		1	50	21.91	21.77	21.82
		1	99	21.89	21.79	21.81
		50	0	21.07	21.04	20.92
		50	25	21.06	21.02	20.86
		50	50	21.08	21.06	20.89
		100	0	21.09	21.07	20.93
	64QAM	1	0	21.07	21.04	20.94
		1	50	21.02	21.05	20.95
		1	99	21.03	21.04	20.97
		50	0	19.98	20.03	19.90
		50	25	19.99	20.05	19.95
		50	50	19.97	20.02	19.94
		100	0	19.99	20.02	19.98

Head power reduction(Ant2)

Band: GSM850	Burst Average Power (dBm)			Frame Average Power (dBm)		
Channel	128	190	251	128	190	251
GSM (CS)	30.82	30.67	30.52	21.82	21.67	21.52
GPRS/EDGE (GMSK, 1 Tx slot)	30.82	30.71	30.59	21.82	21.71	21.59
GPRS/EDGE (GMSK, 2 Tx slots)	30.85	30.74	30.62	24.85	24.74	24.62
GPRS/EDGE (GMSK, 3 Tx slots)	29.78	29.67	29.51	25.52	25.41	25.25
GPRS/EDGE (GMSK, 4 Tx slots)	28.33	28.22	28.05	25.33	25.22	25.05
EDGE (8PSK, 1 Tx slot)	24.60	24.64	24.55	15.60	15.64	15.55
EDGE (8PSK, 2 Tx slots)	24.42	24.48	24.46	18.42	18.48	18.46
EDGE (8PSK, 3 Tx slots)	23.28	23.34	23.33	19.02	19.08	19.07
EDGE (8PSK, 4 Tx slots)	22.62	22.74	22.67	19.62	19.74	19.67

Remark:

The conducted power of GSM850 is measured with RMS detector.

Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.

Per KDB941225 D01v03, the bolded GPRS 2 Tx mode was selected as the primary mode for SAR testing according to the highest frame- averaged output power table.

Band: DCS1900	Burst Average Power (dBm)			Frame Average Power (dBm)		
Channel	513	661	810	513	661	810
GSM (CS)	26.44	26.86	26.74	17.44	17.86	17.74
GPRS/EDGE (GMSK, 1 Tx slot)	26.50	26.78	26.64	17.50	17.78	17.64
GPRS/EDGE (GMSK, 2 Tx slots)	26.45	26.75	26.61	20.45	20.75	20.61
GPRS/EDGE (GMSK, 3 Tx slots)	26.39	26.69	26.55	22.13	22.43	22.29
GPRS/EDGE (GMSK, 4 Tx slots)	24.88	25.20	25.05	21.88	22.20	22.05
EDGE (8PSK, 1 Tx slot)	22.46	22.56	22.59	13.46	13.56	13.59
EDGE (8PSK, 2 Tx slots)	22.28	22.47	22.49	16.28	16.47	16.49
EDGE (8PSK, 3 Tx slots)	21.61	21.80	21.89	17.35	17.54	17.63
EDGE (8PSK, 4 Tx slots)	20.84	21.14	21.12	17.84	18.14	18.12

Remark:

The conducted power of GSM1900 is measured with RMS detector.

Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.

Per KDB941225 D01v03, the bolded GPRS 2 Tx mode was selected as the primary mode for SAR testing according to the highest frame- averaged output power table.

UMTS Band II		Conducted Power (dBm)		
		9262	9400	9538
WCDMA	12.2kbps RMC	18.43	18.45	18.30
	64kbps RMC	18.21	18.36	18.26
	144kbps RMC	18.19	18.33	18.29
	384kbps RMC	18.17	18.37	18.26
HSDPA	Subtest 1	18.43	18.15	18.11
	Subtest 2	17.94	17.98	17.72
	Subtest 3	17.95	17.96	17.71
	Subtest 4	17.92	17.52	17.66
HSUPA	Subtest 1	16.47	16.52	16.29
	Subtest 2	16.93	16.98	16.75
	Subtest 3	17.50	17.52	17.30
	Subtest 4	16.45	16.48	16.26
	Subtest 5	18.35	18.36	18.12

Remark:

- 1) The conducted power of UMTS Band II is measured with RMS detector
- 2) Per KDB 941225 D01v03, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

UMTS Band IV		Conducted Power (dBm)		
		1312	1412	1513
WCDMA	12.2kbps RMC	18.44	18.51	18.47
	64kbps RMC	18.37	18.46	18.42
	144kbps RMC	18.39	18.38	18.47
	384kbps RMC	18.42	18.50	18.47
HSDPA	Subtest 1	18.20	18.47	18.18
	Subtest 2	18.02	18.03	17.98
	Subtest 3	18.01	18.00	17.95
	Subtest 4	17.97	18.04	17.94
HSUPA	Subtest 1	16.50	16.54	16.49
	Subtest 2	17.03	17.03	16.96
	Subtest 3	17.51	17.54	17.50
	Subtest 4	16.49	16.55	16.51
	Subtest 5	17.98	18.44	18.38

Remark:

1) The conducted power of UMTS Band IV is measured with RMS detector

2) Per KDB 941225 D01v03, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

UMTS Band V		Conducted Power (dBm)		
		4133	4175	4232
WCDMA	12.2kbps RMC	19.94	20.02	20.07
	64kbps RMC	19.87	19.97	20.02
	144kbps RMC	19.89	19.90	20.07
	384kbps RMC	19.93	20.01	20.07
HSDPA	Subtest 1	19.72	20.01	20.02
	Subtest 2	19.47	19.50	19.55
	Subtest 3	19.48	19.54	19.56
	Subtest 4	19.49	19.52	19.58
HSUPA	Subtest 1	17.88	17.97	17.99
	Subtest 2	18.34	18.44	18.48
	Subtest 3	18.87	18.97	19.00
	Subtest 4	17.87	18.00	18.00
	Subtest 5	19.90	19.90	20.03

Remark:

- 1) The conducted power of UMTS Band V is measured with RMS detector
- 2) Per KDB 941225 D01v03, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

LTE Band 2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	15.52	15.52	15.29
		1	3	15.56	15.53	15.33
		1	5	15.52	15.50	15.32
		3	0	14.74	14.60	14.33
		3	1	14.72	14.63	14.33
		3	3	14.72	14.64	14.38
		6	0	14.73	14.69	14.37
	16QAM	1	0	14.75	14.70	14.40
		1	3	14.72	14.65	14.42
		1	5	14.74	14.60	14.39
		3	0	13.87	13.63	13.65
		3	1	13.86	13.62	13.69
		3	3	13.84	13.59	13.73
		6	0	13.86	13.56	13.77
	64QAM	1	0	13.85	13.58	13.78
		1	3	13.84	13.60	13.76
		1	5	13.88	13.64	13.79
		3	0	12.79	12.60	12.78
		3	1	12.76	12.59	12.77
		3	3	12.77	12.63	12.77
		6	0	12.74	12.62	12.79

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0	15.52	15.53	15.29
		1	8	15.55	15.53	15.34
		1	14	15.53	15.52	15.32
		8	0	14.60	14.66	14.43
		8	4	14.61	14.68	14.39
		8	7	14.62	14.69	14.36
		15	0	14.64	14.68	14.33
	16QAM	1	0	14.60	14.66	14.31
		1	8	14.64	14.61	14.35
		1	14	14.67	14.57	14.37
		8	0	13.88	13.67	13.41
		8	4	13.87	13.63	13.44
		8	7	13.91	13.60	13.43
		15	0	13.93	13.64	13.48
	64QAM	1	0	13.96	13.59	13.47
		1	8	13.93	13.57	13.44
		1	14	13.89	13.53	13.46
		8	0	12.87	12.55	12.38
		8	4	12.86	12.58	12.36
		8	7	12.89	12.61	12.39
		15	0	12.88	12.58	12.39

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	15.52	15.45	15.34
		1	13	15.53	15.49	15.38
		1	24	15.49	15.45	15.35
		12	0	14.60	14.58	14.41
		12	6	14.58	14.54	14.42
		12	13	14.62	14.50	14.39
		25	0	14.65	14.49	14.43
	16QAM	1	0	14.63	14.53	14.41
		1	13	14.63	14.54	14.37
		1	24	14.61	14.51	14.35
		12	0	13.62	13.67	13.43
		12	6	13.62	13.64	13.47
		12	13	13.64	13.61	13.49
		25	0	13.61	13.57	13.49
	64QAM	1	0	13.59	13.60	13.48
		1	13	13.57	13.65	13.49
		1	24	13.53	13.60	13.49
		12	0	12.48	12.50	12.40
		12	6	12.50	12.54	12.42
		12	13	12.49	12.57	12.42
		25	0	12.48	12.55	12.37

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	15.47	15.49	15.40
		1	25	15.49	15.51	15.42
		1	49	15.45	15.50	15.38
		25	0	14.67	14.57	14.56
		25	12	14.65	14.58	14.55
		25	25	14.64	14.59	14.54
		50	0	14.59	14.59	14.53
	16QAM	1	0	14.59	14.57	14.56
		1	25	14.60	14.55	14.52
		1	49	14.61	14.51	14.53
		25	0	13.76	13.75	13.66
		25	12	13.71	13.78	13.72
		25	25	13.70	13.73	13.77
		50	0	13.70	13.77	13.76
	64QAM	1	0	13.69	13.80	13.74
		1	25	13.73	13.83	13.72
		1	49	13.75	13.83	13.76
		25	0	12.72	12.74	12.66
		25	12	12.70	12.74	12.65
		25	25	12.72	12.76	12.63
		50	0	12.71	12.77	12.65

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	15.46	15.49	15.36
		1	37	15.50	15.52	15.39
		1	74	15.48	15.52	15.38
		36	0	14.60	14.53	14.60
		36	20	14.57	14.55	14.60
		36	39	14.62	14.56	14.60
		75	0	14.57	14.56	14.64
	16QAM	1	0	14.52	14.59	14.66
		1	37	14.48	14.61	14.63
		1	74	14.52	14.62	14.59
		36	0	13.71	13.65	13.67
		36	20	13.69	13.61	13.71
		36	39	13.65	13.58	13.70
		75	0	13.63	13.57	13.65
	64QAM	1	0	13.68	13.55	13.70
		1	37	13.69	13.57	13.73
		1	74	13.66	13.59	13.68
		36	0	12.56	12.56	12.62
		36	20	12.51	12.59	12.57
		36	39	12.51	12.59	12.61
		75	0	12.47	12.54	12.58

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	15.50	15.54	15.45
		1	50	15.54	15.56	15.47
		1	99	15.51	15.53	15.42
		50	0	14.65	14.64	14.57
		50	25	14.60	14.68	14.59
		50	50	14.61	14.70	14.60
		100	0	14.65	14.75	14.59
	16QAM	1	0	14.61	14.80	14.55
		1	50	14.66	14.79	14.56
		1	99	14.63	14.82	14.59
		50	0	13.88	13.91	13.63
		50	25	13.93	13.96	13.63
		50	50	13.96	13.98	13.66
		100	0	13.92	13.99	13.67
	64QAM	1	0	13.96	13.95	13.70
		1	50	13.96	13.92	13.74
		1	99	14.01	13.95	13.71
		50	0	13.02	12.86	12.73
		50	25	13.00	12.84	12.74
		50	50	13.03	12.85	12.75
		100	0	13.00	12.87	12.78

LTE Band 4

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	17.55	17.43	17.41
		1	3	17.57	17.47	17.45
		1	5	17.55	17.42	17.45
		3	0	16.75	16.45	16.56
		3	1	16.73	16.49	16.52
		3	3	16.76	16.46	16.56
		6	0	16.77	16.44	16.54
	16QAM	1	0	16.81	16.48	16.57
		1	3	16.81	16.44	16.55
		1	5	16.82	16.47	16.54
		3	0	16.00	15.63	15.58
		3	1	15.95	15.67	15.60
		3	3	15.97	15.66	15.56
		6	0	15.92	15.66	15.51
	64QAM	1	0	15.93	15.61	15.52
		1	3	15.93	15.63	15.55
		1	5	15.96	15.63	15.55
		3	0	14.96	14.65	14.47
		3	1	14.96	14.65	14.50
		3	3	14.92	14.65	14.46
		6	0	14.95	14.63	14.48

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19965	20175	20385
3MHz	QPSK	1	0	17.56	17.45	17.47
		1	8	17.59	17.47	17.49
		1	14	17.54	17.45	17.46
		8	0	16.71	16.46	16.59
		8	4	16.75	16.43	16.63
		8	7	16.72	16.41	16.64
		15	0	16.70	16.39	16.61
	16QAM	1	0	16.71	16.38	16.57
		1	8	16.76	16.39	16.56
		1	14	16.74	16.41	16.60
		8	0	15.75	15.51	15.85
		8	4	15.69	15.56	15.90
		8	7	15.70	15.59	15.85
		15	0	15.74	15.55	15.90
	64QAM	1	0	15.77	15.59	15.85
		1	8	15.74	15.57	15.84
		1	14	15.71	15.60	15.88
		8	0	14.67	14.58	14.85
		8	4	14.65	14.54	14.81
		8	7	14.62	14.56	14.77
		15	0	14.58	14.61	14.77

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0	17.55	17.48	17.51
		1	13	17.56	17.50	17.53
		1	24	17.55	17.50	17.51
		12	0	16.67	16.60	16.66
		12	6	16.62	16.62	16.62
		12	13	16.63	16.64	16.61
		25	0	16.67	16.68	16.65
	16QAM	1	0	16.67	16.65	16.68
		1	13	16.70	16.64	16.73
		1	24	16.73	16.62	16.75
		12	0	15.82	15.85	15.80
		12	6	15.80	15.85	15.77
		12	13	15.83	15.90	15.79
		25	0	15.84	15.87	15.81
	64QAM	1	0	15.86	15.89	15.83
		1	13	15.82	15.93	15.83
		1	24	15.84	15.91	15.85
		12	0	14.75	14.93	14.81
		12	6	14.72	14.93	14.85
		12	13	14.76	14.90	14.88
		25	0	14.75	14.94	14.85

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0	17.56	17.52	17.52
		1	25	17.59	17.55	17.55
		1	49	17.55	17.50	17.52
		25	0	16.75	16.50	16.67
		25	12	16.80	16.48	16.70
		25	25	16.76	16.52	16.71
		50	0	16.81	16.48	16.67
	16QAM	1	0	16.78	16.49	16.64
		1	25	16.79	16.49	16.62
		1	49	16.80	16.50	16.59
		25	0	15.92	15.65	15.69
		25	12	15.92	15.70	15.71
		25	25	15.93	15.69	15.71
		50	0	15.97	15.73	15.73
	64QAM	1	0	16.02	15.73	15.77
		1	25	16.07	15.72	15.76
		1	49	16.10	15.67	15.76
		25	0	15.11	14.58	14.66
		25	12	15.07	14.59	14.66
		25	25	15.12	14.56	14.64
		50	0	15.17	14.56	14.67

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	17.55	17.54	17.57
		1	37	17.59	17.59	17.58
		1	74	17.57	17.55	17.55
		36	0	16.58	16.73	16.60
		36	20	16.57	16.69	16.58
		36	39	16.61	16.71	16.62
		75	0	16.60	16.66	16.60
	16QAM	1	0	16.60	16.70	16.61
		1	37	16.59	16.73	16.57
		1	74	16.60	16.74	16.53
		36	0	15.64	15.91	15.73
		36	20	15.65	15.96	15.78
		36	39	15.66	16.00	15.81
		75	0	15.69	16.01	15.76
	64QAM	1	0	15.72	16.00	15.76
		1	37	15.68	15.98	15.77
		1	74	15.71	15.95	15.76
		36	0	14.64	14.95	14.72
		36	20	14.62	14.98	14.69
		36	39	14.63	14.97	14.71
		75	0	14.64	15.01	14.71

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	17.62	17.66	17.57
		1	50	17.64	17.67	17.58
		1	99	17.59	17.63	17.55
		50	0	16.67	16.68	16.78
		50	25	16.66	16.70	16.81
		50	50	16.68	16.67	16.83
		100	0	16.67	16.66	16.85
	16QAM	1	0	16.67	16.65	16.86
		1	50	16.68	16.64	16.81
		1	99	16.69	16.66	16.83
		50	0	15.93	15.67	16.01
		50	25	15.90	15.73	16.05
		50	50	15.88	15.77	16.03
		100	0	15.87	15.81	16.08
	64QAM	1	0	15.87	15.85	16.03
		1	50	15.87	15.86	16.05
		1	99	15.85	15.81	16.00
		50	0	14.86	14.72	14.94
		50	25	14.89	14.76	14.98
		50	50	14.93	14.76	15.03
		100	0	14.88	14.73	15.01

LTE Band 5

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	19.85	19.90	19.79
		1	3	19.87	19.90	19.82
		1	5	19.86	19.87	19.78
		3	0	19.04	19.01	18.80
		3	1	19.01	19.00	18.79
		3	3	19.01	18.95	18.82
		6	0	19.04	18.94	18.86
	16QAM	1	0	19.03	18.97	18.83
		1	3	19.05	19.00	18.88
		1	5	19.00	19.01	18.86
		3	0	18.15	18.14	18.00
		3	1	18.15	18.13	18.04
		3	3	18.20	18.14	18.05
		6	0	18.21	18.10	18.08
	64QAM	1	0	18.19	18.12	18.06
		1	3	18.15	18.16	18.04
		1	5	18.17	18.13	18.03
		3	0	17.16	17.07	16.96
		3	1	17.17	17.04	16.92
		3	3	17.22	17.07	16.88
		6	0	17.27	17.04	16.92

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0	19.88	19.85	19.86
		1	8	19.89	19.89	19.86
		1	14	19.88	19.86	19.84
		8	0	18.99	19.11	18.92
		8	4	18.95	19.10	18.87
		8	7	18.94	19.13	18.83
		15	0	18.96	19.08	18.81
	16QAM	1	0	18.93	19.08	18.84
		1	8	18.95	19.07	18.86
		1	14	18.94	19.05	18.83
		8	0	18.09	18.08	17.91
		8	4	18.08	18.04	17.86
		8	7	18.07	18.09	17.81
		15	0	18.07	18.13	17.84
	64QAM	1	0	18.06	18.16	17.82
		1	8	18.04	18.19	17.87
		1	14	18.05	18.21	17.88
		8	0	16.97	17.17	16.85
		8	4	16.98	17.18	16.83
		8	7	16.97	17.17	16.83
		15	0	17.00	17.18	16.78

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0	19.85	19.92	19.83
		1	13	19.89	19.92	19.86
		1	24	19.88	19.87	19.84
		12	0	19.06	18.96	18.90
		12	6	19.01	18.91	18.86
		12	13	18.98	18.91	18.84
		25	0	19.02	18.94	18.83
	16QAM	1	0	19.01	18.98	18.81
		1	13	18.97	19.01	18.81
		1	24	18.98	18.98	18.80
		12	0	18.19	18.16	17.99
		12	6	18.15	18.18	17.96
		12	13	18.10	18.20	17.94
		25	0	18.14	18.22	17.90
	64QAM	1	0	18.11	18.25	17.89
		1	13	18.13	18.29	17.90
		1	24	18.12	18.29	17.90
		12	0	17.12	17.31	16.83
		12	6	17.12	17.29	16.81
		12	13	17.12	17.34	16.83
		25	0	17.09	17.30	16.83

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0	19.90	19.90	19.85
		1	25	19.91	19.94	19.89
		1	49	19.86	19.91	19.88
		25	0	18.88	19.13	19.12
		25	12	18.90	19.10	19.13
		25	25	18.94	19.14	19.12
		50	0	18.99	19.13	19.10
	16QAM	1	0	18.97	19.13	19.09
		1	25	18.94	19.11	19.09
		1	49	18.92	19.06	19.05
		25	0	18.04	18.21	18.10
		25	12	18.03	18.19	18.05
		25	25	17.99	18.19	18.04
		50	0	18.02	18.16	18.02
	64QAM	1	0	18.02	18.15	18.06
		1	25	18.03	18.13	18.07
		1	49	18.04	18.11	18.10
		25	0	16.96	17.01	17.09
		25	12	16.96	17.02	17.10
		25	25	16.98	16.99	17.06
		50	0	16.94	17.02	17.02

LTE Band 7

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	11.19	11.14	11.10
		1	13	11.21	11.14	11.14
		1	24	11.19	11.09	11.14
		12	0	10.30	10.16	10.15
		12	6	10.30	10.17	10.15
		12	13	10.31	10.22	10.15
		25	0	10.29	10.20	10.16
	16QAM	1	0	10.32	10.15	10.17
		1	13	10.30	10.10	10.19
		1	24	10.32	10.11	10.22
		12	0	9.53	9.18	9.44
		12	6	9.49	9.14	9.38
		12	13	9.50	9.14	9.36
		25	0	9.53	9.13	9.32
	64QAM	1	0	9.58	9.10	9.37
		1	13	9.56	9.09	9.41
		1	24	9.52	9.14	9.41
		12	0	8.46	8.09	8.34
		12	6	8.46	8.07	8.31
		12	13	8.43	8.05	8.29
		25	0	8.43	8.02	8.32

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0	11.21	11.22	11.15
		1	25	11.25	11.23	11.15
		1	49	11.20	11.19	11.11
		25	0	10.25	10.26	10.33
		25	12	10.29	10.29	10.29
		25	25	10.24	10.33	10.27
		50	0	10.28	10.31	10.30
	16QAM	1	0	10.25	10.29	10.32
		1	25	10.29	10.33	10.27
		1	49	10.27	10.34	10.32
		25	0	9.46	9.56	9.55
		25	12	9.50	9.51	9.49
		25	25	9.46	9.55	9.47
		50	0	9.42	9.51	9.49
	64QAM	1	0	9.41	9.49	9.53
		1	25	9.43	9.48	9.55
		1	49	9.39	9.52	9.55
		25	0	8.37	8.44	8.52
		25	12	8.33	8.44	8.52
		25	25	8.29	8.43	8.55
		50	0	8.31	8.46	8.58

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0	11.23	11.20	11.19
		1	37	11.25	11.22	11.20
		1	74	11.24	11.17	11.18
		36	0	10.35	10.36	10.43
		36	20	10.36	10.33	10.47
		36	39	10.34	10.32	10.44
		75	0	10.36	10.36	10.46
	16QAM	1	0	10.37	10.40	10.43
		1	37	10.36	10.37	10.41
		1	74	10.33	10.39	10.39
		36	0	9.49	9.55	9.64
		36	20	9.50	9.57	9.60
		36	39	9.45	9.61	9.61
		75	0	9.46	9.62	9.65
	64QAM	1	0	9.45	9.65	9.69
		1	37	9.46	9.69	9.71
		1	74	9.49	9.73	9.74
		36	0	8.45	8.68	8.64
		36	20	8.40	8.70	8.69
		36	39	8.43	8.67	8.69
		75	0	8.48	8.63	8.65

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0	11.19	11.24	11.18
		1	50	11.22	11.26	11.20
		1	99	11.17	11.24	11.17
		50	0	10.18	10.35	10.36
		50	25	10.18	10.37	10.34
		50	50	10.17	10.38	10.38
		100	0	10.12	10.40	10.36
	16QAM	1	0	10.11	10.36	10.33
		1	50	10.08	10.33	10.33
		1	99	10.05	10.36	10.36
		50	0	9.13	9.59	9.40
		50	25	9.09	9.60	9.35
		50	50	9.07	9.61	9.39
		100	0	9.09	9.57	9.39
	64QAM	1	0	9.08	9.61	9.35
		1	50	9.10	9.58	9.33
		1	99	9.13	9.61	9.37
		50	0	8.03	8.61	8.34
		50	25	8.01	8.58	8.32
		50	50	8.05	8.56	8.32
		100	0	8.05	8.52	8.34

LTE Band 38

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37775	38000	38225
5MHz	QPSK	1	0	15.22	15.20	15.15
		1	13	15.23	15.24	15.16
		1	24	15.23	15.21	15.12
		12	0	14.42	14.39	14.21
		12	6	14.45	14.37	14.17
		12	13	14.44	14.35	14.22
		25	0	14.41	14.35	14.23
	16QAM	1	0	14.44	14.33	14.22
		1	13	14.49	14.30	14.20
		1	24	14.50	14.26	14.18
		12	0	13.55	13.49	13.31
		12	6	13.51	13.48	13.36
		12	13	13.46	13.52	13.33
		25	0	13.50	13.50	13.30
	64QAM	1	0	13.51	13.55	13.26
		1	13	13.47	13.57	13.31
		1	24	13.46	13.56	13.31
		12	0	12.42	12.53	12.31
		12	6	12.39	12.52	12.35
		12	13	12.37	12.57	12.34
		25	0	12.33	12.53	12.31

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37800	38000	38200
10MHz	QPSK	1	0	15.20	15.26	15.18
		1	25	15.24	15.27	15.22
		1	49	15.23	15.23	15.18
		25	0	14.44	14.43	14.28
		25	12	14.41	14.45	14.33
		25	25	14.38	14.50	14.36
		50	0	14.38	14.52	14.36
	16QAM	1	0	14.33	14.51	14.35
		1	25	14.37	14.51	14.38
		1	49	14.36	14.53	14.40
		25	0	13.48	13.68	13.42
		25	12	13.43	13.68	13.41
		25	25	13.40	13.64	13.45
		50	0	13.35	13.66	13.49
	64QAM	1	0	13.31	13.68	13.51
		1	25	13.30	13.67	13.51
		1	49	13.32	13.63	13.50
		25	0	12.23	12.57	12.53
		25	12	12.24	12.57	12.54
		25	25	12.26	12.61	12.55
		50	0	12.25	12.64	12.58

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37825	38000	38175
15MHz	QPSK	1	0	15.16	15.22	15.16
		1	37	15.20	15.22	15.18
		1	74	15.18	15.21	15.14
		36	0	14.28	14.28	14.36
		36	20	14.32	14.24	14.37
		36	39	14.31	14.24	14.33
		75	0	14.28	14.25	14.33
	16QAM	1	0	14.26	14.24	14.35
		1	37	14.24	14.20	14.34
		1	74	14.29	14.19	14.30
		36	0	13.38	13.38	13.49
		36	20	13.36	13.33	13.44
		36	39	13.33	13.37	13.40
		75	0	13.30	13.33	13.38
	64QAM	1	0	13.31	13.36	13.35
		1	37	13.35	13.33	13.36
		1	74	13.37	13.38	13.36
		36	0	12.32	12.41	12.34
		36	20	12.28	12.42	12.39
		36	39	12.30	12.46	12.42
		75	0	12.27	12.46	12.46

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37850	38000	38150
20MHz	QPSK	1	0	15.18	15.22	15.18
		1	50	15.22	15.23	15.20
		1	99	15.18	15.21	15.19
		50	0	14.25	14.34	14.36
		50	25	14.23	14.34	14.33
		50	50	14.23	14.31	14.36
		100	0	14.25	14.36	14.31
	16QAM	1	0	14.24	14.34	14.30
		1	50	14.26	14.33	14.33
		1	99	14.22	14.37	14.31
		50	0	13.42	13.59	13.51
		50	25	13.45	13.59	13.44
		50	50	13.41	13.59	13.41
		100	0	13.43	13.58	13.41
	64QAM	1	0	13.43	13.60	13.42
		1	50	13.41	13.57	13.47
		1	99	13.37	13.61	13.46
		50	0	12.40	12.62	12.40
		50	25	12.38	12.65	12.42
		50	50	12.42	12.65	12.39
		100	0	12.41	12.66	12.41

LTE Band 41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40065	40640	41215
5MHz	QPSK	1	0	13.74	13.85	13.75
		1	13	13.79	13.87	13.77
		1	24	13.77	13.85	13.73
		12	0	12.91	13.05	12.81
		12	6	12.90	13.01	12.77
		12	13	12.95	12.99	12.76
		25	0	12.96	13.00	12.74
	16QAM	1	0	12.93	12.99	12.73
		1	13	12.92	12.95	12.71
		1	24	12.91	12.98	12.66
		12	0	12.09	12.24	11.71
		12	6	12.03	12.24	11.66
		12	13	11.99	12.21	11.67
		25	0	12.02	12.21	11.70
	64QAM	1	0	12.03	12.17	11.71
		1	13	12.07	12.19	11.69
		1	24	12.04	12.16	11.70
		12	0	11.00	11.12	10.71
		12	6	11.01	11.15	10.75
		12	13	10.98	11.14	10.77
		25	0	11.00	11.18	10.76

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40090	40640	41190
10MHz	QPSK	1	0	13.81	13.86	13.75
		1	25	13.85	13.86	13.77
		1	49	13.82	13.83	13.73
		25	0	12.87	13.03	12.89
		25	12	12.86	12.99	12.86
		25	25	12.85	12.99	12.87
		50	0	12.86	12.95	12.89
	16QAM	1	0	12.87	12.95	12.91
		1	25	12.91	12.95	12.91
		1	49	12.91	12.97	12.95
		25	0	12.14	12.22	11.96
		25	12	12.15	12.22	12.01
		25	25	12.11	12.21	12.04
		50	0	12.11	12.17	12.04
	64QAM	1	0	12.09	12.14	12.03
		1	25	12.12	12.10	12.00
		1	49	12.12	12.15	12.02
		25	0	11.15	11.09	11.02
		25	12	11.11	11.06	11.04
		25	25	11.08	11.11	11.00
		50	0	11.09	11.16	11.00

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40115	40640	41165
15MHz	QPSK	1	0	13.77	13.84	13.81
		1	37	13.82	13.89	13.82
		1	74	13.81	13.85	13.79
		36	0	12.82	12.90	13.01
		36	20	12.77	12.87	12.97
		36	39	12.76	12.86	13.01
		75	0	12.81	12.81	13.02
	16QAM	1	0	12.79	12.85	13.00
		1	37	12.75	12.82	12.97
		1	74	12.79	12.84	12.97
		36	0	11.80	12.03	12.09
		36	20	11.80	12.06	12.07
		36	39	11.84	12.06	12.08
		75	0	11.87	12.06	12.12
	64QAM	1	0	11.88	12.05	12.09
		1	37	11.86	12.08	12.12
		1	74	11.89	12.05	12.14
		36	0	10.91	10.97	11.14
		36	20	10.89	10.97	11.16
		36	39	10.86	10.96	11.16
		75	0	10.87	10.93	11.17

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40140	40640	41140
20MHz	QPSK	1	0	13.85	13.88	13.78
		1	50	13.87	13.93	13.83
		1	99	13.82	13.93	13.82
		50	0	13.07	13.09	13.00
		50	25	13.03	13.05	13.03
		50	50	13.08	13.02	12.99
		100	0	13.12	13.00	13.02
	16QAM	1	0	13.15	12.96	13.03
		1	50	13.15	12.98	13.04
		1	99	13.13	12.96	13.04
		50	0	12.21	12.07	12.17
		50	25	12.19	12.02	12.19
		50	50	12.23	12.02	12.15
		100	0	12.23	11.97	12.17
	64QAM	1	0	12.23	11.97	12.22
		1	50	12.18	11.94	12.24
		1	99	12.18	11.96	12.22
		50	0	11.19	10.96	11.24
		50	25	11.19	10.94	11.27
		50	50	11.15	10.91	11.22
		100	0	11.14	10.89	11.19

LTE Band 66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19207	19575	19943
1.4MHz	QPSK	1	0	17.82	17.78	17.78
		1	3	17.86	17.82	17.83
		1	5	17.86	17.80	17.78
		3	0	17.03	16.81	16.82
		3	1	17.03	16.83	16.77
		3	3	17.03	16.81	16.80
		6	0	17.05	16.85	16.76
	16QAM	1	0	17.04	16.83	16.77
		1	3	17.03	16.88	16.72
		1	5	17.06	16.89	16.76
		3	0	16.20	16.03	15.94
		3	1	16.19	16.02	15.95
		3	3	16.22	16.05	15.92
		6	0	16.26	16.08	15.89
	64QAM	1	0	16.25	16.05	15.94
		1	3	16.22	16.09	15.95
		1	5	16.25	16.09	15.99
		3	0	15.19	15.07	14.95
		3	1	15.21	15.08	14.99
		3	3	15.21	15.11	14.94
		6	0	15.25	15.12	14.95

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19215	19575	19935
3MHz	QPSK	1	0	17.91	17.86	17.85
		1	8	17.93	17.89	17.86
		1	14	17.88	17.87	17.85
		8	0	17.01	17.07	16.89
		8	4	17.04	17.06	16.85
		8	7	16.99	17.10	16.82
		15	0	16.98	17.08	16.80
	16QAM	1	0	16.97	17.13	16.85
		1	8	16.96	17.16	16.86
		1	14	16.98	17.18	16.90
		8	0	16.00	16.39	16.00
		8	4	16.00	16.44	15.97
		8	7	15.95	16.48	16.00
		15	0	15.96	16.52	16.03
	64QAM	1	0	15.92	16.55	15.99
		1	8	15.87	16.56	15.99
		1	14	15.84	16.54	15.99
		8	0	14.86	15.56	14.90
		8	4	14.87	15.59	14.89
		8	7	14.86	15.64	14.89
		15	0	14.90	15.68	14.86

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19225	19575	19925
5MHz	QPSK	1	0	17.86	17.87	17.79
		1	13	17.90	17.89	17.81
		1	24	17.85	17.87	17.77
		12	0	17.00	17.03	16.96
		12	6	17.02	17.07	17.01
		12	13	17.02	17.11	17.04
		25	0	17.02	17.12	17.07
	16QAM	1	0	17.03	17.17	17.06
		1	13	17.01	17.20	17.09
		1	24	16.98	17.22	17.11
		12	0	16.00	16.23	16.22
		12	6	15.96	16.22	16.22
		12	13	15.91	16.26	16.25
		25	0	15.94	16.26	16.21
	64QAM	1	0	15.92	16.27	16.21
		1	13	15.96	16.29	16.24
		1	24	15.96	16.27	16.23
		12	0	14.86	15.23	15.25
		12	6	14.82	15.24	15.22
		12	13	14.84	15.25	15.20
		25	0	14.82	15.24	15.18

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19250	19575	19900
10MHz	QPSK	1	0	17.84	17.91	17.79
		1	25	17.87	17.93	17.80
		1	49	17.84	17.89	17.80
		25	0	17.07	17.00	16.98
		25	12	17.11	17.02	16.96
		25	25	17.10	16.97	17.00
		50	0	17.11	17.00	17.02
	16QAM	1	0	17.15	16.96	17.05
		1	25	17.18	16.96	17.06
		1	49	17.22	16.92	17.07
		25	0	16.42	16.16	16.28
		25	12	16.41	16.10	16.29
		25	25	16.43	16.14	16.29
		50	0	16.43	16.15	16.28
	64QAM	1	0	16.43	16.17	16.27
		1	25	16.40	16.14	16.23
		1	49	16.43	16.18	16.25
		25	0	15.39	15.12	15.21
		25	12	15.43	15.12	15.17
		25	25	15.47	15.11	15.14
		50	0	15.51	15.08	15.09

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19275	19575	19875
15MHz	QPSK	1	0	17.88	17.87	17.83
		1	37	17.90	17.90	17.85
		1	74	17.87	17.90	17.81
		36	0	16.94	17.10	16.90
		36	20	16.99	17.13	16.93
		36	39	17.04	17.17	16.97
		75	0	17.07	17.13	17.00
	16QAM	1	0	17.09	17.16	17.01
		1	37	17.09	17.15	17.04
		1	74	17.07	17.11	17.03
		36	0	16.17	16.24	16.23
		36	20	16.21	16.18	16.25
		36	39	16.20	16.16	16.26
		75	0	16.16	16.16	16.27
	64QAM	1	0	16.14	16.12	16.31
		1	37	16.15	16.16	16.33
		1	74	16.16	16.19	16.37
		36	0	15.17	15.12	15.35
		36	20	15.19	15.12	15.34
		36	39	15.21	15.11	15.36
		75	0	15.21	15.15	15.32

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19300	19575	19850
20MHz	QPSK	1	0	17.90	17.93	17.90
		1	50	17.91	17.96	17.90
		1	99	17.88	17.94	17.88
		50	0	16.96	16.96	16.91
		50	25	16.99	16.92	16.94
		50	50	17.03	16.90	16.99
		100	0	17.00	16.95	16.99
	16QAM	1	0	17.03	16.94	16.95
		1	50	17.03	16.92	17.00
		1	99	17.03	16.96	17.03
		50	0	16.13	15.99	16.06
		50	25	16.08	15.93	16.04
		50	50	16.12	15.90	15.99
		100	0	16.15	15.87	16.01
	64QAM	1	0	16.18	15.90	15.99
		1	50	16.14	15.91	16.00
		1	99	16.17	15.94	15.97
		50	0	15.09	14.87	14.93
		50	25	15.13	14.89	14.93
		50	50	15.09	14.89	14.89
		100	0	15.07	14.88	14.89

Body power reduction(Ant2)

Band: GSM850	Burst Average Power (dBm)			Frame Average Power (dBm)		
Channel	128	190	251	128	190	251
GSM (CS)	30.82	30.67	30.58	21.82	21.67	21.58
GPRS/EDGE (GMSK, 1 Tx slot)	30.83	30.70	30.60	21.83	21.70	21.60
GPRS/EDGE (GMSK, 2 Tx slots)	30.33	30.41	30.36	24.33	24.41	24.36
GPRS/EDGE (GMSK, 3 Tx slots)	29.78	29.66	29.52	25.52	25.40	25.26
GPRS/EDGE (GMSK, 4 Tx slots)	28.34	28.21	28.05	25.34	25.21	25.05
EDGE (8PSK, 1 Tx slot)	24.59	24.62	24.57	15.59	15.62	15.57
EDGE (8PSK, 2 Tx slots)	24.40	24.50	24.45	18.40	18.50	18.45
EDGE (8PSK, 3 Tx slots)	23.27	23.32	23.30	19.01	19.06	19.04
EDGE (8PSK, 4 Tx slots)	22.65	22.75	22.65	19.65	19.75	19.65

Band: DCS1900	Burst Average Power (dBm)			Frame Average Power (dBm)		
Channel	513	661	810	513	661	810
GSM (CS)	26.48	26.81	26.68	17.48	17.81	17.68
GPRS/EDGE (GMSK, 1 Tx slot)	26.52	26.82	26.68	17.52	17.82	17.68
GPRS/EDGE (GMSK, 2 Tx slots)	25.30	25.36	26.32	19.30	19.36	20.32
GPRS/EDGE (GMSK, 3 Tx slots)	25.02	25.14	25.30	20.76	20.88	21.04
GPRS/EDGE (GMSK, 4 Tx slots)	24.92	25.25	25.10	21.92	22.25	22.10
EDGE (8PSK, 1 Tx slot)	22.47	22.65	22.68	13.47	13.65	13.68
EDGE (8PSK, 2 Tx slots)	22.32	22.52	22.61	16.32	16.52	16.61
EDGE (8PSK, 3 Tx slots)	21.66	21.85	21.97	17.40	17.59	17.71
EDGE (8PSK, 4 Tx slots)	21.01	21.15	21.20	18.01	18.15	18.20

UMTS Band II		Conducted Power (dBm)		
		9262	9400	9538
WCDMA	12.2kbps RMC	19.39	19.43	19.29
	64kbps RMC	19.17	19.34	19.25
	144kbps RMC	19.15	19.31	19.28
	384kbps RMC	19.13	19.35	19.25
HSDPA	Subtest 1	19.16	19.31	19.09
	Subtest 2	18.93	18.91	18.68
	Subtest 3	18.97	18.90	18.69
	Subtest 4	18.86	18.90	18.68
HSUPA	Subtest 1	17.31	17.34	17.11
	Subtest 2	17.79	17.82	17.60
	Subtest 3	18.33	18.37	18.15
	Subtest 4	17.30	17.36	17.14
	Subtest 5	19.32	18.89	19.16

UMTS Band IV		Conducted Power (dBm)		
		1312	1412	1513
WCDMA	12.2kbps RMC	20.43	20.49	20.43
	64kbps RMC	20.36	20.44	20.38
	144kbps RMC	20.38	20.36	20.43
	384kbps RMC	20.41	20.48	20.43
HSDPA	Subtest 1	20.41	20.38	20.19
	Subtest 2	19.99	19.99	19.93
	Subtest 3	19.97	20.05	19.99
	Subtest 4	19.96	20.04	19.99
HSUPA	Subtest 1	18.55	18.60	18.58
	Subtest 2	19.02	19.10	19.04
	Subtest 3	19.57	19.56	19.55
	Subtest 4	18.57	18.59	18.56
	Subtest 5	20.49	20.62	20.56

UMTS Band V		Conducted Power (dBm)		
		4133	4175	4232
WCDMA	12.2kbps RMC	22.40	22.47	22.54
	64kbps RMC	22.33	22.42	22.49
	144kbps RMC	22.35	22.35	22.54
	384kbps RMC	22.39	22.46	22.54
HSDPA	Subtest 1	22.23	22.47	22.37
	Subtest 2	21.92	21.99	22.02
	Subtest 3	21.93	22.03	22.07
	Subtest 4	21.90	21.94	21.98
HSUPA	Subtest 1	20.49	20.60	20.60
	Subtest 2	21.01	21.07	21.06
	Subtest 3	21.50	21.53	21.58
	Subtest 4	20.47	20.63	20.64
	Subtest 5	22.44	22.56	22.60

LTE Band 2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	18.39	18.45	18.37
		1	3	18.40	18.48	18.40
		1	5	18.39	18.47	18.36
		3	0	17.53	17.52	17.38
		3	1	17.57	17.49	17.41
		3	3	17.56	17.45	17.39
		6	0	17.56	17.48	17.44
	16QAM	1	0	17.58	17.45	17.47
		1	3	17.56	17.43	17.44
		1	5	17.56	17.41	17.44
		3	0	16.62	16.47	16.44
		3	1	16.56	16.51	16.41
		3	3	16.61	16.46	16.41
		6	0	16.62	16.48	16.42
	64QAM	1	0	16.62	16.51	16.38
		1	3	16.59	16.56	16.38
		1	5	16.58	16.54	16.37
		3	0	15.61	15.45	15.40
		3	1	15.59	15.46	15.40
		3	3	15.55	15.44	15.39
		6	0	15.55	15.42	15.37

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0	18.49	18.54	18.44
		1	8	18.49	18.55	18.46
		1	14	18.44	18.51	18.43
		8	0	17.50	17.63	17.54
		8	4	17.53	17.60	17.55
		8	7	17.54	17.57	17.55
		15	0	17.49	17.56	17.51
	16QAM	1	0	17.51	17.52	17.56
		1	8	17.55	17.53	17.57
		1	14	17.56	17.56	17.55
		8	0	16.72	16.73	16.71
		8	4	16.78	16.79	16.69
		8	7	16.76	16.78	16.65
		15	0	16.79	16.78	16.62
	64QAM	1	0	16.79	16.75	16.65
		1	8	16.78	16.75	16.66
		1	14	16.76	16.76	16.66
		8	0	15.75	15.72	15.66
		8	4	15.74	15.70	15.68
		8	7	15.74	15.74	15.65
		15	0	15.77	15.78	15.67

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	18.50	18.56	18.45
		1	13	18.53	18.59	18.49
		1	24	18.49	18.55	18.47
		12	0	17.58	17.78	17.55
		12	6	17.62	17.77	17.56
		12	13	17.58	17.74	17.59
		25	0	17.62	17.75	17.55
	16QAM	1	0	17.57	17.72	17.55
		1	13	17.57	17.70	17.57
		1	24	17.56	17.74	17.62
		12	0	16.79	16.96	16.86
		12	6	16.75	17.01	16.79
		12	13	16.72	17.01	16.76
		25	0	16.68	16.97	16.73
	64QAM	1	0	16.71	16.99	16.70
		1	13	16.67	17.00	16.69
		1	24	16.71	16.97	16.68
		12	0	15.65	15.89	15.71
		12	6	15.67	15.91	15.69
		12	13	15.70	15.95	15.67
		25	0	15.75	15.97	15.66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	18.55	18.55	18.52
		1	25	18.57	18.57	18.53
		1	49	18.54	18.56	18.48
		25	0	17.57	17.62	17.51
		25	12	17.58	17.58	17.55
		25	25	17.58	17.62	17.57
		50	0	17.63	17.66	17.55
	16QAM	1	0	17.59	17.65	17.55
		1	25	17.57	17.61	17.55
		1	49	17.58	17.62	17.53
		25	0	16.75	16.72	16.72
		25	12	16.68	16.66	16.74
		25	25	16.71	16.69	16.75
		50	0	16.75	16.73	16.77
	64QAM	1	0	16.76	16.77	16.76
		1	25	16.74	16.81	16.74
		1	49	16.74	16.81	16.69
		25	0	15.69	15.82	15.61
		25	12	15.68	15.85	15.57
		25	25	15.72	15.83	15.59
		50	0	15.77	15.88	15.54

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	18.55	18.55	18.50
		1	37	18.58	18.59	18.53
		1	74	18.57	18.58	18.49
		36	0	17.72	17.60	17.65
		36	20	17.73	17.60	17.66
		36	39	17.68	17.63	17.67
		75	0	17.63	17.61	17.63
	16QAM	1	0	17.65	17.66	17.66
		1	37	17.65	17.64	17.68
		1	74	17.70	17.69	17.64
		36	0	16.77	16.91	16.78
		36	20	16.82	16.88	16.82
		36	39	16.82	16.93	16.84
		75	0	16.87	16.88	16.84
	64QAM	1	0	16.90	16.85	16.82
		1	37	16.91	16.85	16.86
		1	74	16.92	16.87	16.89
		36	0	15.86	15.82	15.86
		36	20	15.82	15.82	15.85
		36	39	15.78	15.83	15.82
		75	0	15.78	15.82	15.84

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	18.53	18.57	18.51
		1	50	18.55	18.59	18.56
		1	99	18.53	18.59	18.55
		50	0	17.68	17.59	17.64
		50	25	17.70	17.59	17.66
		50	50	17.70	17.54	17.63
		100	0	17.69	17.55	17.66
	16QAM	1	0	17.73	17.54	17.64
		1	50	17.69	17.57	17.63
		1	99	17.67	17.57	17.64
		50	0	16.87	16.63	16.75
		50	25	16.92	16.57	16.80
		50	50	16.91	16.60	16.78
		100	0	16.94	16.65	16.75
	64QAM	1	0	16.90	16.64	16.72
		1	50	16.95	16.62	16.69
		1	99	16.92	16.61	16.68
		50	0	15.92	15.63	15.64
		50	25	15.93	15.63	15.64
		50	50	15.90	15.67	15.68
		100	0	15.91	15.70	15.68

LTE Band 4

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	19.29	19.22	19.18
		1	3	19.29	19.23	19.23
		1	5	19.25	19.22	19.21
		3	0	18.32	18.30	18.34
		3	1	18.36	18.32	18.31
		3	3	18.38	18.29	18.28
		6	0	18.38	18.30	18.29
	16QAM	1	0	18.37	18.34	18.29
		1	3	18.35	18.29	18.30
		1	5	18.34	18.27	18.28
		3	0	17.39	17.32	17.32
		3	1	17.45	17.35	17.27
		3	3	17.49	17.38	17.28
		6	0	17.48	17.40	17.27
	64QAM	1	0	17.47	17.37	17.32
		1	3	17.51	17.42	17.28
		1	5	17.52	17.40	17.28
		3	0	16.48	16.33	16.21
		3	1	16.47	16.31	16.24
		3	3	16.51	16.32	16.26
		6	0	16.47	16.35	16.31

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19965	20175	20385
3MHz	QPSK	1	0	19.33	19.27	19.24
		1	8	19.35	19.27	19.24
		1	14	19.30	19.26	19.23
		8	0	18.48	18.27	18.46
		8	4	18.47	18.28	18.44
		8	7	18.43	18.28	18.41
		15	0	18.47	18.27	18.40
	16QAM	1	0	18.45	18.27	18.45
		1	8	18.47	18.30	18.47
		1	14	18.42	18.33	18.45
		8	0	17.55	17.34	17.66
		8	4	17.61	17.29	17.70
		8	7	17.62	17.25	17.70
		15	0	17.65	17.27	17.71
	64QAM	1	0	17.61	17.28	17.70
		1	8	17.56	17.28	17.65
		1	14	17.59	17.29	17.62
		8	0	16.50	16.31	16.65
		8	4	16.49	16.33	16.68
		8	7	16.48	16.38	16.66
		15	0	16.46	16.41	16.63

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0	19.29	19.25	19.24
		1	13	19.31	19.30	19.26
		1	24	19.26	19.25	19.26
		12	0	18.41	18.41	18.42
		12	6	18.37	18.43	18.39
		12	13	18.32	18.43	18.41
		25	0	18.32	18.44	18.43
	16QAM	1	0	18.27	18.48	18.39
		1	13	18.24	18.47	18.34
		1	24	18.22	18.43	18.29
		12	0	17.40	17.45	17.32
		12	6	17.46	17.50	17.36
		12	13	17.43	17.45	17.38
		25	0	17.48	17.45	17.41
	64QAM	1	0	17.48	17.47	17.42
		1	13	17.47	17.45	17.41
		1	24	17.48	17.46	17.39
		12	0	16.38	16.40	16.31
		12	6	16.33	16.37	16.32
		12	13	16.32	16.39	16.32
		25	0	16.28	16.34	16.29

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0	19.29	19.26	19.28
		1	25	19.31	19.30	19.29
		1	49	19.27	19.30	19.27
		25	0	18.30	18.47	18.30
		25	12	18.32	18.49	18.25
		25	25	18.29	18.49	18.22
		50	0	18.32	18.52	18.27
	16QAM	1	0	18.32	18.52	18.30
		1	25	18.30	18.56	18.31
		1	49	18.26	18.53	18.29
		25	0	17.38	17.68	17.53
		25	12	17.42	17.67	17.54
		25	25	17.40	17.68	17.54
		50	0	17.41	17.71	17.52
	64QAM	1	0	17.37	17.74	17.49
		1	25	17.41	17.74	17.48
		1	49	17.38	17.70	17.43
		25	0	16.39	16.69	16.43
		25	12	16.43	16.68	16.40
		25	25	16.40	16.70	16.40
		50	0	16.36	16.67	16.44

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	19.26	19.29	19.25
		1	37	19.31	19.30	19.28
		1	74	19.30	19.27	19.23
		36	0	18.33	18.38	18.40
		36	20	18.38	18.36	18.37
		36	39	18.38	18.34	18.33
		75	0	18.37	18.29	18.32
	16QAM	1	0	18.33	18.29	18.32
		1	37	18.33	18.27	18.37
		1	74	18.28	18.25	18.38
		36	0	17.32	17.49	17.59
		36	20	17.35	17.46	17.62
		36	39	17.40	17.44	17.58
		75	0	17.42	17.45	17.62
	64QAM	1	0	17.39	17.46	17.58
		1	37	17.38	17.42	17.59
		1	74	17.40	17.42	17.57
		36	0	16.35	16.43	16.56
		36	20	16.36	16.41	16.51
		36	39	16.39	16.43	16.48
		75	0	16.42	16.44	16.51

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	19.35	19.32	19.30
		1	50	19.35	19.36	19.33
		1	99	19.33	19.35	19.29
		50	0	18.47	18.57	18.53
		50	25	18.49	18.58	18.49
		50	50	18.45	18.61	18.50
		100	0	18.42	18.65	18.48
	16QAM	1	0	18.42	18.65	18.47
		1	50	18.46	18.62	18.52
		1	99	18.50	18.60	18.55
		50	0	17.52	17.61	17.62
		50	25	17.50	17.64	17.55
		50	50	17.49	17.61	17.55
		100	0	17.46	17.61	17.51
	64QAM	1	0	17.42	17.57	17.49
		1	50	17.41	17.62	17.53
		1	99	17.44	17.62	17.54
		50	0	16.42	16.63	16.44
		50	25	16.37	16.62	16.45
		50	50	16.34	16.60	16.45
		100	0	16.36	16.64	16.47

LTE Band 5

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	22.59	22.59	22.63
		1	3	22.60	22.60	22.63
		1	5	22.56	22.57	22.63
		3	0	21.62	21.81	21.85
		3	1	21.60	21.83	21.86
		3	3	21.64	21.87	21.89
		6	0	21.64	21.88	21.87
	16QAM	1	0	21.65	21.86	21.89
		1	3	21.67	21.83	21.87
		1	5	21.72	21.85	21.92
		3	0	20.98	20.97	21.18
		3	1	20.99	20.97	21.13
		3	3	20.99	21.01	21.12
		6	0	21.03	21.00	21.17
	64QAM	1	0	20.99	21.01	21.18
		1	3	21.01	21.02	21.13
		1	5	21.03	21.01	21.14
		3	0	19.97	20.01	20.09
		3	1	19.94	20.00	20.11
		3	3	19.90	19.96	20.11
		6	0	19.87	19.92	20.12

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0	22.59	22.64	22.59
		1	8	22.62	22.65	22.64
		1	14	22.59	22.64	22.61
		8	0	21.66	21.73	21.85
		8	4	21.64	21.77	21.83
		8	7	21.63	21.81	21.82
		15	0	21.59	21.84	21.83
	16QAM	1	0	21.58	21.85	21.86
		1	8	21.55	21.89	21.88
		1	14	21.59	21.86	21.90
		8	0	20.85	21.10	21.15
		8	4	20.88	21.16	21.11
		8	7	20.90	21.15	21.15
		15	0	20.94	21.13	21.17
	64QAM	1	0	20.90	21.10	21.15
		1	8	20.88	21.05	21.18
		1	14	20.89	21.02	21.16
		8	0	19.92	20.00	20.18
		8	4	19.95	20.01	20.18
		8	7	19.93	20.06	20.17
		15	0	19.96	20.02	20.14

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0	22.59	22.55	22.63
		1	13	22.61	22.60	22.64
		1	24	22.57	22.56	22.60
		12	0	21.80	21.59	21.84
		12	6	21.81	21.63	21.84
		12	13	21.80	21.67	21.83
		25	0	21.75	21.67	21.82
	16QAM	1	0	21.75	21.65	21.82
		1	13	21.71	21.66	21.86
		1	24	21.69	21.64	21.90
		12	0	20.94	20.84	21.00
		12	6	20.99	20.87	20.98
		12	13	20.96	20.90	20.98
		25	0	20.92	20.93	20.96
	64QAM	1	0	20.97	20.97	20.95
		1	13	21.00	21.01	20.93
		1	24	20.99	21.05	20.93
		12	0	20.00	20.04	19.95
		12	6	19.97	19.99	19.94
		12	13	20.01	20.02	19.95
		25	0	20.04	20.01	19.98

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0	22.59	22.62	22.56
		1	25	22.63	22.64	22.61
		1	49	22.61	22.62	22.57
		25	0	21.79	21.63	21.64
		25	12	21.80	21.64	21.67
		25	25	21.85	21.60	21.68
		50	0	21.83	21.57	21.65
	16QAM	1	0	21.81	21.57	21.67
		1	25	21.85	21.54	21.72
		1	49	21.88	21.58	21.75
		25	0	20.98	20.59	20.82
		25	12	20.95	20.63	20.83
		25	25	20.96	20.66	20.81
		50	0	20.99	20.68	20.77
	64QAM	1	0	20.95	20.67	20.75
		1	25	20.98	20.67	20.80
		1	49	20.93	20.66	20.77
		25	0	19.91	19.64	19.73
		25	12	19.88	19.64	19.69
		25	25	19.92	19.68	19.71
		50	0	19.91	19.66	19.67

LTE Band 7

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	14.17	14.25	14.15
		1	13	14.20	14.27	14.19
		1	24	14.17	14.26	14.19
		12	0	13.41	13.43	13.35
		12	6	13.45	13.46	13.31
		12	13	13.45	13.50	13.33
		25	0	13.41	13.46	13.35
	16QAM	1	0	13.38	13.42	13.35
		1	13	13.40	13.46	13.33
		1	24	13.40	13.50	13.35
		12	0	12.41	12.52	12.57
		12	6	12.35	12.54	12.60
		12	13	12.37	12.53	12.62
		25	0	12.37	12.50	12.59
	64QAM	1	0	12.39	12.53	12.62
		1	13	12.37	12.50	12.58
		1	24	12.34	12.55	12.57
		12	0	11.37	11.55	11.56
		12	6	11.41	11.55	11.55
		12	13	11.41	11.54	11.59
		25	0	11.36	11.59	11.55

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0	14.22	14.26	14.17
		1	25	14.26	14.28	14.20
		1	49	14.24	14.25	14.18
		25	0	13.42	13.42	13.41
		25	12	13.44	13.45	13.44
		25	25	13.48	13.45	13.43
		50	0	13.52	13.43	13.45
	16QAM	1	0	13.51	13.40	13.47
		1	25	13.55	13.38	13.43
		1	49	13.56	13.36	13.38
		25	0	12.62	12.60	12.43
		25	12	12.64	12.62	12.40
		25	25	12.60	12.57	12.40
		50	0	12.60	12.54	12.43
	64QAM	1	0	12.59	12.55	12.41
		1	25	12.54	12.60	12.42
		1	49	12.53	12.57	12.44
		25	0	11.45	11.50	11.40
		25	12	11.43	11.49	11.35
		25	25	11.44	11.52	11.36
		50	0	11.49	11.56	11.39

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0	14.28	14.27	14.19
		1	37	14.30	14.28	14.22
		1	74	14.25	14.28	14.17
		36	0	13.32	13.36	13.23
		36	20	13.34	13.38	13.27
		36	39	13.32	13.38	13.27
		75	0	13.35	13.41	13.26
	16QAM	1	0	13.39	13.40	13.26
		1	37	13.37	13.39	13.26
		1	74	13.38	13.40	13.23
		36	0	12.51	12.50	12.39
		36	20	12.54	12.46	12.37
		36	39	12.58	12.49	12.39
		75	0	12.63	12.50	12.35
	64QAM	1	0	12.65	12.53	12.38
		1	37	12.65	12.52	12.36
		1	74	12.67	12.51	12.36
		36	0	11.66	11.49	11.32
		36	20	11.62	11.54	11.31
		36	39	11.67	11.50	11.29
		75	0	11.68	11.54	11.24

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0	14.28	14.28	14.19
		1	50	14.31	14.32	14.24
		1	99	14.26	14.28	14.20
		50	0	13.30	13.36	13.41
		50	25	13.35	13.39	13.40
		50	50	13.30	13.43	13.43
		100	0	13.33	13.47	13.47
	16QAM	1	0	13.33	13.45	13.46
		1	50	13.35	13.42	13.41
		1	99	13.34	13.38	13.46
		50	0	12.40	12.64	12.54
		50	25	12.34	12.69	12.49
		50	50	12.38	12.73	12.51
		100	0	12.37	12.70	12.46
	64QAM	1	0	12.36	12.75	12.43
		1	50	12.41	12.71	12.45
		1	99	12.44	12.75	12.43
		50	0	11.42	11.75	11.44
		50	25	11.44	11.77	11.44
		50	50	11.46	11.75	11.45
		100	0	11.46	11.72	11.44

LTE Band 38

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37775	38000	38225
5MHz	QPSK	1	0	16.59	16.65	16.64
		1	13	16.64	16.69	16.68
		1	24	16.60	16.64	16.67
		12	0	15.62	15.75	15.79
		12	6	15.63	15.77	15.79
		12	13	15.59	15.73	15.81
		25	0	15.55	15.72	15.80
	16QAM	1	0	15.54	15.69	15.77
		1	13	15.50	15.72	15.79
		1	24	15.55	15.71	15.77
		12	0	14.70	14.86	14.96
		12	6	14.63	14.89	15.01
		12	13	14.63	14.89	15.01
		25	0	14.63	14.93	15.02
	64QAM	1	0	14.65	14.92	15.02
		1	13	14.60	14.90	14.99
		1	24	14.57	14.91	15.02
		12	0	13.53	13.93	13.94
		12	6	13.49	13.96	13.93
		12	13	13.51	13.91	13.98
		25	0	13.48	13.91	13.97

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37800	38000	38200
10MHz	QPSK	1	0	16.63	16.70	16.60
		1	25	16.64	16.71	16.65
		1	49	16.64	16.66	16.64
		25	0	15.74	15.73	15.73
		25	12	15.73	15.72	15.70
		25	25	15.77	15.70	15.67
		50	0	15.72	15.73	15.71
	16QAM	1	0	15.67	15.75	15.69
		1	25	15.72	15.72	15.65
		1	49	15.76	15.76	15.70
		25	0	14.95	14.86	14.86
		25	12	14.99	14.81	14.91
		25	25	14.95	14.84	14.91
		50	0	14.97	14.89	14.94
	64QAM	1	0	14.93	14.91	14.90
		1	25	14.90	14.93	14.87
		1	49	14.95	14.96	14.87
		25	0	13.91	13.92	13.84
		25	12	13.86	13.97	13.86
		25	25	13.86	14.02	13.84
		50	0	13.90	14.04	13.81

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37825	38000	38175
15MHz	QPSK	1	0	16.64	16.69	16.60
		1	37	16.67	16.71	16.63
		1	74	16.64	16.69	16.60
		36	0	15.85	15.85	15.67
		36	20	15.84	15.89	15.68
		36	39	15.86	15.89	15.72
		75	0	15.88	15.89	15.70
	16QAM	1	0	15.88	15.86	15.72
		1	37	15.90	15.83	15.74
		1	74	15.88	15.87	15.74
		36	0	14.93	14.91	14.83
		36	20	14.93	14.86	14.84
		36	39	14.89	14.87	14.80
		75	0	14.91	14.85	14.82
	64QAM	1	0	14.88	14.90	14.83
		1	37	14.84	14.92	14.84
		1	74	14.86	14.90	14.80
		36	0	13.82	13.86	13.80
		36	20	13.79	13.88	13.85
		36	39	13.82	13.91	13.85
		75	0	13.79	13.90	13.82

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37850	38000	38150
20MHz	QPSK	1	0	16.67	16.67	16.65
		1	50	16.71	16.71	16.67
		1	99	16.67	16.66	16.64
		50	0	15.71	15.71	15.76
		50	25	15.71	15.73	15.74
		50	50	15.73	15.70	15.76
		100	0	15.72	15.73	15.72
	16QAM	1	0	15.68	15.75	15.76
		1	50	15.67	15.74	15.74
		1	99	15.65	15.72	15.74
		50	0	14.82	14.86	14.86
		50	25	14.84	14.80	14.85
		50	50	14.80	14.75	14.89
		100	0	14.79	14.76	14.93
	64QAM	1	0	14.81	14.74	14.94
		1	50	14.85	14.74	14.97
		1	99	14.83	14.76	14.99
		50	0	13.78	13.71	13.89
		50	25	13.77	13.72	13.86
		50	50	13.79	13.67	13.82
		100	0	13.76	13.64	13.81

LTE Band 41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40065	40640	41215
5MHz	QPSK	1	0	16.84	16.81	16.74
		1	13	16.88	16.83	16.79
		1	24	16.86	16.81	16.77
		12	0	16.01	15.86	15.81
		12	6	16.03	15.81	15.78
		12	13	16.03	15.82	15.75
		25	0	16.08	15.83	15.71
	16QAM	1	0	16.12	15.81	15.69
		1	13	16.12	15.79	15.74
		1	24	16.11	15.77	15.72
		12	0	15.16	14.89	14.97
		12	6	15.12	14.85	14.94
		12	13	15.14	14.90	14.90
		25	0	15.09	14.90	14.93
	64QAM	1	0	15.08	14.90	14.94
		1	13	15.10	14.93	14.96
		1	24	15.06	14.93	14.92
		12	0	14.06	13.89	13.88
		12	6	14.09	13.93	13.88
		12	13	14.10	13.93	13.92
		25	0	14.11	13.96	13.94

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40090	40640	41190
10MHz	QPSK	1	0	16.86	16.87	16.72
		1	25	16.87	16.87	16.76
		1	49	16.85	16.85	16.74
		25	0	16.01	15.85	15.96
		25	12	15.97	15.82	15.99
		25	25	16.00	15.81	16.04
		50	0	15.98	15.84	16.03
	16QAM	1	0	16.00	15.80	16.08
		1	25	15.99	15.80	16.12
		1	49	15.99	15.85	16.15
		25	0	15.15	14.94	15.26
		25	12	15.14	14.89	15.30
		25	25	15.10	14.92	15.33
		50	0	15.10	14.94	15.30
	64QAM	1	0	15.13	14.90	15.31
		1	25	15.18	14.89	15.33
		1	49	15.18	14.85	15.28
		25	0	14.12	13.83	14.26
		25	12	14.14	13.85	14.30
		25	25	14.13	13.86	14.30
		50	0	14.18	13.89	14.33

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40115	40640	41165
15MHz	QPSK	1	0	16.81	16.79	16.79
		1	37	16.86	16.83	16.80
		1	74	16.83	16.80	16.78
		36	0	16.02	16.01	15.99
		36	20	15.97	16.00	16.00
		36	39	15.93	15.97	16.05
		75	0	15.96	15.94	16.09
	16QAM	1	0	15.95	15.95	16.07
		1	37	15.95	15.91	16.08
		1	74	16.00	15.88	16.13
		36	0	15.07	14.98	15.28
		36	20	15.04	14.97	15.24
		36	39	15.04	14.92	15.21
		75	0	15.08	14.97	15.19
	64QAM	1	0	15.10	14.94	15.22
		1	37	15.14	14.94	15.23
		1	74	15.11	14.97	15.26
		36	0	14.03	13.88	14.27
		36	20	14.00	13.86	14.31
		36	39	14.02	13.84	14.27
		75	0	14.00	13.83	14.23

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40140	40640	41140
20MHz	QPSK	1	0	16.84	16.87	16.76
		1	50	16.86	16.88	16.80
		1	99	16.85	16.88	16.79
		50	0	16.00	15.97	15.92
		50	25	15.96	16.01	15.87
		50	50	15.94	16.02	15.83
		100	0	15.95	16.04	15.83
	16QAM	1	0	15.94	16.08	15.87
		1	50	15.94	16.13	15.89
		1	99	15.96	16.11	15.89
		50	0	15.02	15.19	15.07
		50	25	15.08	15.19	15.04
		50	50	15.10	15.22	15.04
		100	0	15.11	15.25	15.07
	64QAM	1	0	15.11	15.24	15.11
		1	50	15.12	15.20	15.10
		1	99	15.12	15.17	15.11
		50	0	14.02	14.11	14.11
		50	25	14.02	14.14	14.15
		50	50	14.03	14.16	14.11
		100	0	14.03	14.18	14.09

LTE Band 66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19207	19575	19943
1.4MHz	QPSK	1	0	19.88	19.98	20.07
		1	3	19.89	20.01	20.10
		1	5	19.88	19.97	20.10
		3	0	19.12	19.02	19.13
		3	1	19.11	19.00	19.13
		3	3	19.12	18.98	19.18
		6	0	19.16	18.95	19.15
	16QAM	1	0	19.15	18.91	19.13
		1	3	19.12	18.89	19.08
		1	5	19.08	18.87	19.07
		3	0	18.21	18.10	18.12
		3	1	18.20	18.16	18.11
		3	3	18.21	18.20	18.13
		6	0	18.19	18.23	18.18
	64QAM	1	0	18.24	18.25	18.21
		1	3	18.29	18.22	18.20
		1	5	18.28	18.17	18.19
		3	0	17.30	17.07	17.21
		3	1	17.32	17.09	17.24
		3	3	17.29	17.08	17.21
		6	0	17.30	17.06	17.20

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19215	19575	19935
3MHz	QPSK	1	0	19.93	20.00	20.06
		1	8	19.97	20.05	20.09
		1	14	19.93	20.04	20.08
		8	0	19.13	19.28	19.26
		8	4	19.11	19.27	19.31
		8	7	19.07	19.29	19.34
		15	0	19.06	19.30	19.30
	16QAM	1	0	19.10	19.26	19.34
		1	8	19.11	19.22	19.37
		1	14	19.07	19.23	19.39
		8	0	18.21	18.32	18.52
		8	4	18.16	18.36	18.48
		8	7	18.13	18.35	18.53
		15	0	18.14	18.40	18.54
	64QAM	1	0	18.10	18.39	18.51
		1	8	18.06	18.40	18.51
		1	14	18.09	18.40	18.55
		8	0	17.09	17.30	17.51
		8	4	17.13	17.31	17.53
		8	7	17.09	17.28	17.51
		15	0	17.07	17.31	17.51

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19225	19575	19925
5MHz	QPSK	1	0	19.97	20.06	20.01
		1	13	20.02	20.08	20.05
		1	24	19.99	20.04	20.04
		12	0	19.12	19.08	19.25
		12	6	19.14	19.03	19.22
		12	13	19.17	18.99	19.21
		25	0	19.12	18.95	19.20
	16QAM	1	0	19.10	18.99	19.20
		1	13	19.07	19.04	19.15
		1	24	19.10	19.07	19.11
		12	0	18.31	18.28	18.19
		12	6	18.35	18.33	18.23
		12	13	18.34	18.34	18.21
		25	0	18.33	18.32	18.20
	64QAM	1	0	18.32	18.33	18.23
		1	13	18.27	18.32	18.20
		1	24	18.29	18.30	18.22
		12	0	17.22	17.33	17.14
		12	6	17.24	17.34	17.09
		12	13	17.29	17.37	17.06
		25	0	17.31	17.40	17.02

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19250	19575	19900
10MHz	QPSK	1	0	19.98	20.09	20.04
		1	25	20.03	20.10	20.07
		1	49	20.02	20.05	20.04
		25	0	19.12	19.22	19.14
		25	12	19.11	19.18	19.14
		25	25	19.07	19.15	19.19
		50	0	19.06	19.16	19.19
	16QAM	1	0	19.09	19.16	19.24
		1	25	19.09	19.12	19.24
		1	49	19.13	19.15	19.26
		25	0	18.24	18.26	18.47
		25	12	18.19	18.24	18.46
		25	25	18.19	18.26	18.42
		50	0	18.23	18.22	18.47
	64QAM	1	0	18.22	18.18	18.47
		1	25	18.27	18.20	18.48
		1	49	18.31	18.24	18.44
		25	0	17.22	17.23	17.40
		25	12	17.19	17.18	17.38
		25	25	17.20	17.18	17.41
		50	0	17.24	17.15	17.43

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19275	19575	19875
15MHz	QPSK	1	0	19.97	20.03	19.98
		1	37	19.99	20.07	20.02
		1	74	19.96	20.02	19.99
		36	0	19.05	19.23	19.04
		36	20	19.05	19.25	19.07
		36	39	19.06	19.20	19.07
		75	0	19.08	19.23	19.06
	16QAM	1	0	19.05	19.23	19.08
		1	37	19.10	19.27	19.03
		1	74	19.08	19.29	19.02
		36	0	18.16	18.48	18.11
		36	20	18.13	18.53	18.13
		36	39	18.11	18.51	18.11
		75	0	18.06	18.50	18.10
	64QAM	1	0	18.05	18.52	18.10
		1	37	18.03	18.55	18.10
		1	74	18.04	18.52	18.07
		36	0	17.04	17.53	17.00
		36	20	17.07	17.49	16.99
		36	39	17.11	17.45	17.04
		75	0	17.15	17.47	17.00

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19300	19575	19850
20MHz	QPSK	1	0	20.01	20.08	20.03
		1	50	20.01	20.08	20.05
		1	99	20.00	20.07	20.00
		50	0	19.17	19.27	19.04
		50	25	19.16	19.27	19.08
		50	50	19.19	19.25	19.06
		100	0	19.19	19.30	19.03
	16QAM	1	0	19.15	19.34	19.04
		1	50	19.12	19.34	19.08
		1	99	19.10	19.30	19.07
		50	0	18.30	18.37	18.21
		50	25	18.27	18.33	18.18
		50	50	18.23	18.29	18.17
		100	0	18.18	18.29	18.16
	64QAM	1	0	18.19	18.32	18.14
		1	50	18.15	18.37	18.16
		1	99	18.11	18.36	18.15
		50	0	17.08	17.38	17.08
		50	25	17.13	17.38	17.09
		50	50	17.17	17.37	17.08
		100	0	17.14	17.35	17.08

Body power reduction(Ant3)

Band: GSM850	Burst Average Power (dBm)			Frame Average Power (dBm)		
Channel	128	190	251	128	190	251
GSM (CS)	31.47	31.42	31.41	22.47	22.42	22.41
GPRS/EDGE (GMSK, 1 Tx slot)	31.48	31.44	31.42	22.48	22.44	22.42
GPRS/EDGE (GMSK, 2 Tx slots)	31.03	31.00	30.98	25.03	25.00	24.98
GPRS/EDGE (GMSK, 3 Tx slots)	29.44	29.40	29.37	25.18	25.14	25.11
GPRS/EDGE (GMSK, 4 Tx slots)	27.98	27.94	27.90	24.98	24.94	24.90
EDGE (8PSK, 1 Tx slot)	25.27	25.37	25.33	16.27	16.37	16.33
EDGE (8PSK, 2 Tx slots)	25.05	25.21	25.16	19.05	19.21	19.16
EDGE (8PSK, 3 Tx slots)	23.03	23.18	23.18	18.77	18.92	18.92
EDGE (8PSK, 4 Tx slots)	22.35	22.50	22.46	19.35	19.50	19.46

Band: DCS1900	Burst Average Power (dBm)			Frame Average Power (dBm)		
	Channel	513	661	810	513	661
GSM (CS)	27.51	27.76	27.56	18.51	18.76	18.56
GPRS/EDGE (GMSK, 1 Tx slot)	27.52	27.72	27.50	18.52	18.72	18.50
GPRS/EDGE (GMSK, 2 Tx slots)	26.42	26.45	27.40	20.42	20.45	21.40
GPRS/EDGE (GMSK, 3 Tx slots)	26.27	26.31	26.28	22.01	22.05	22.02
GPRS/EDGE (GMSK, 4 Tx slots)	24.76	25.02	24.78	21.76	22.02	21.78
EDGE (8PSK, 1 Tx slot)	23.31	23.43	23.37	14.31	14.43	14.37
EDGE (8PSK, 2 Tx slots)	23.18	23.33	23.24	17.18	17.33	17.24
EDGE (8PSK, 3 Tx slots)	21.57	21.68	21.67	17.31	17.42	17.41
EDGE (8PSK, 4 Tx slots)	20.77	20.95	20.90	17.77	17.95	17.90

UMTS Band II		Conducted Power (dBm)		
		9262	9400	9538
WCDMA	12.2kbps RMC	21.48	21.43	21.09
	64kbps RMC	21.26	21.34	21.05
	144kbps RMC	21.24	21.31	21.08
	384kbps RMC	21.22	21.35	21.05
HSDPA	Subtest 1	21.40	21.23	20.92
	Subtest 2	20.94	20.90	20.52
	Subtest 3	20.94	20.87	20.53
	Subtest 4	20.88	20.78	20.41
HSUPA	Subtest 1	19.35	19.36	19.02
	Subtest 2	19.85	19.84	19.52
	Subtest 3	20.38	20.37	20.03
	Subtest 4	19.36	18.83	19.01
	Subtest 5	21.40	21.40	21.02

UMTS Band IV		Conducted Power (dBm)		
		1312	1412	1513
WCDMA	12.2kbps RMC	20.23	20.32	20.32
	64kbps RMC	20.16	20.27	20.27
	144kbps RMC	20.18	20.19	20.32
	384kbps RMC	20.21	20.31	20.32
HSDPA	Subtest 1	19.87	20.12	20.24
	Subtest 2	19.69	19.76	19.78
	Subtest 3	19.73	19.70	19.70
	Subtest 4	19.70	19.76	19.72
HSUPA	Subtest 1	18.18	18.25	18.27
	Subtest 2	19.12	18.74	18.72
	Subtest 3	19.18	19.24	19.26
	Subtest 4	18.18	18.26	18.26
	Subtest 5	20.24	20.29	20.32

UMTS Band V		Conducted Power (dBm)		
		4133	4175	4232
WCDMA	12.2kbps RMC	22.48	22.57	22.55
	64kbps RMC	22.41	22.52	22.50
	144kbps RMC	22.43	22.45	22.55
	384kbps RMC	22.47	22.56	22.55
HSDPA	Subtest 1	22.15	22.27	22.30
	Subtest 2	21.95	22.00	22.02
	Subtest 3	21.94	22.01	21.99
	Subtest 4	21.87	21.94	21.95
HSUPA	Subtest 1	20.52	20.58	20.57
	Subtest 2	21.00	21.08	21.06
	Subtest 3	21.52	21.54	21.53
	Subtest 4	20.53	20.60	20.56
	Subtest 5	22.42	22.51	22.54

LTE Band 2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	20.29	20.18	20.28
		1	3	20.29	20.20	20.31
		1	5	20.25	20.19	20.29
		3	0	19.47	19.30	19.43
		3	1	19.49	19.25	19.44
		3	3	19.45	19.21	19.42
		6	0	19.44	19.23	19.44
	16QAM	1	0	19.48	19.19	19.46
		1	3	19.45	19.24	19.43
		1	5	19.41	19.25	19.45
		3	0	18.44	18.27	18.56
		3	1	18.47	18.29	18.61
		3	3	18.44	18.31	18.61
		6	0	18.42	18.34	18.56
	64QAM	1	0	18.37	18.32	18.58
		1	3	18.36	18.27	18.53
		1	5	18.34	18.32	18.50
		3	0	17.30	17.27	17.45
		3	1	17.26	17.26	17.45
		3	3	17.25	17.28	17.47
		6	0	17.28	17.29	17.45

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0	20.30	20.22	20.31
		1	8	20.33	20.24	20.32
		1	14	20.31	20.19	20.31
		8	0	19.41	19.23	19.38
		8	4	19.42	19.19	19.34
		8	7	19.43	19.15	19.34
		15	0	19.46	19.19	19.35
	16QAM	1	0	19.50	19.20	19.38
		1	8	19.53	19.19	19.38
		1	14	19.49	19.16	19.33
		8	0	18.54	18.20	18.33
		8	4	18.60	18.16	18.38
		8	7	18.65	18.12	18.40
		15	0	18.68	18.16	18.43
	64QAM	1	0	18.70	18.11	18.45
		1	8	18.65	18.13	18.41
		1	14	18.68	18.08	18.42
		8	0	17.59	17.10	17.32
		8	4	17.58	17.09	17.33
		8	7	17.59	17.13	17.36
		15	0	17.56	17.10	17.36

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	20.28	20.22	20.27
		1	13	20.31	20.24	20.31
		1	24	20.31	20.23	20.28
		12	0	19.33	19.42	19.35
		12	6	19.35	19.40	19.31
		12	13	19.33	19.44	19.32
		25	0	19.30	19.46	19.37
	16QAM	1	0	19.30	19.45	19.41
		1	13	19.33	19.40	19.38
		1	24	19.33	19.39	19.35
		12	0	18.55	18.46	18.40
		12	6	18.58	18.48	18.45
		12	13	18.62	18.52	18.41
		25	0	18.58	18.53	18.43
	64QAM	1	0	18.60	18.53	18.44
		1	13	18.64	18.49	18.43
		1	24	18.68	18.52	18.46
		12	0	17.62	17.44	17.44
		12	6	17.62	17.41	17.39
		12	13	17.57	17.43	17.41
		25	0	17.58	17.41	17.43

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	20.23	20.23	20.25
		1	25	20.27	20.28	20.27
		1	49	20.27	20.25	20.24
		25	0	19.49	19.47	19.33
		25	12	19.45	19.48	19.32
		25	25	19.40	19.49	19.33
		50	0	19.38	19.49	19.35
	16QAM	1	0	19.42	19.52	19.38
		1	25	19.39	19.52	19.37
		1	49	19.36	19.54	19.32
		25	0	18.51	18.72	18.34
		25	12	18.49	18.66	18.29
		25	25	18.49	18.69	18.29
		50	0	18.45	18.70	18.25
	64QAM	1	0	18.43	18.69	18.27
		1	25	18.39	18.73	18.22
		1	49	18.35	18.69	18.20
		25	0	17.25	17.65	17.17
		25	12	17.22	17.68	17.15
		25	25	17.24	17.70	17.16
		50	0	17.22	17.68	17.19

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	20.30	20.29	20.22
		1	37	20.32	20.32	20.26
		1	74	20.32	20.30	20.24
		36	0	19.51	19.52	19.42
		36	20	19.46	19.52	19.46
		36	39	19.45	19.54	19.51
		75	0	19.45	19.54	19.48
	16QAM	1	0	19.44	19.53	19.52
		1	37	19.45	19.50	19.54
		1	74	19.43	19.51	19.54
		36	0	18.53	18.59	18.69
		36	20	18.57	18.55	18.66
		36	39	18.53	18.52	18.64
		75	0	18.57	18.53	18.61
	64QAM	1	0	18.58	18.55	18.63
		1	37	18.58	18.53	18.67
		1	74	18.62	18.49	18.65
		36	0	17.63	17.39	17.63
		36	20	17.61	17.39	17.61
		36	39	17.57	17.34	17.61
		75	0	17.58	17.39	17.60

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	20.31	20.34	20.24
		1	50	20.35	20.35	20.26
		1	99	20.30	20.35	20.22
		50	0	19.50	19.49	19.42
		50	25	19.54	19.44	19.38
		50	50	19.58	19.45	19.41
		100	0	19.56	19.47	19.39
	16QAM	1	0	19.56	19.46	19.42
		1	50	19.58	19.47	19.47
		1	99	19.56	19.49	19.43
		50	0	18.73	18.70	18.45
		50	25	18.66	18.75	18.40
		50	50	18.69	18.71	18.39
		100	0	18.72	18.67	18.41
	64QAM	1	0	18.74	18.69	18.44
		1	50	18.77	18.66	18.47
		1	99	18.74	18.69	18.44
		50	0	17.74	17.66	17.44
		50	25	17.73	17.68	17.44
		50	50	17.70	17.63	17.46
		100	0	17.75	17.60	17.47

LTE Band 4

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	19.15	19.29	19.16
		1	3	19.18	19.32	19.16
		1	5	19.18	19.29	19.15
		3	0	18.41	18.38	18.16
		3	1	18.40	18.40	18.14
		3	3	18.45	18.37	18.17
		6	0	18.47	18.36	18.21
	16QAM	1	0	18.52	18.35	18.22
		1	3	18.50	18.33	18.18
		1	5	18.48	18.30	18.14
		3	0	17.50	17.48	17.35
		3	1	17.45	17.51	17.32
		3	3	17.47	17.50	17.33
		6	0	17.52	17.51	17.30
	64QAM	1	0	17.56	17.47	17.33
		1	3	17.59	17.47	17.30
		1	5	17.57	17.48	17.33
		3	0	16.54	16.50	16.36
		3	1	16.53	16.50	16.32
		3	3	16.51	16.51	16.34
		6	0	16.56	16.56	16.32

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19965	20175	20385
3MHz	QPSK	1	0	19.25	19.29	19.19
		1	8	19.27	19.33	19.22
		1	14	19.22	19.29	19.18
		8	0	18.45	18.40	18.40
		8	4	18.41	18.37	18.38
		8	7	18.45	18.37	18.34
		15	0	18.47	18.40	18.35
	16QAM	1	0	18.44	18.43	18.31
		1	8	18.48	18.46	18.35
		1	14	18.50	18.47	18.38
		8	0	17.71	17.49	17.55
		8	4	17.68	17.49	17.53
		8	7	17.63	17.45	17.54
		15	0	17.60	17.49	17.51
	64QAM	1	0	17.59	17.48	17.47
		1	8	17.55	17.48	17.44
		1	14	17.50	17.50	17.49
		8	0	16.53	16.51	16.52
		8	4	16.54	16.54	16.48
		8	7	16.53	16.56	16.45
		15	0	16.48	16.51	16.45

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0	19.30	19.35	19.23
		1	13	19.30	19.36	19.23
		1	24	19.26	19.35	19.19
		12	0	18.46	18.54	18.41
		12	6	18.51	18.56	18.46
		12	13	18.48	18.57	18.43
		25	0	18.49	18.59	18.43
	16QAM	1	0	18.44	18.62	18.45
		1	13	18.44	18.62	18.42
		1	24	18.46	18.58	18.40
		12	0	17.51	17.71	17.56
		12	6	17.55	17.74	17.50
		12	13	17.56	17.70	17.50
		25	0	17.51	17.74	17.52
	64QAM	1	0	17.52	17.76	17.53
		1	13	17.52	17.80	17.51
		1	24	17.55	17.77	17.55
		12	0	16.46	16.69	16.57
		12	6	16.50	16.64	16.54
		12	13	16.54	16.61	16.56
		25	0	16.59	16.57	16.55

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0	19.29	19.39	19.27
		1	25	19.33	19.41	19.28
		1	49	19.31	19.36	19.26
		25	0	18.41	18.51	18.42
		25	12	18.45	18.55	18.41
		25	25	18.43	18.51	18.44
		50	0	18.39	18.50	18.46
	16QAM	1	0	18.34	18.47	18.50
		1	25	18.32	18.44	18.54
		1	49	18.32	18.44	18.51
		25	0	17.32	17.60	17.73
		25	12	17.26	17.61	17.71
		25	25	17.22	17.64	17.66
		50	0	17.21	17.63	17.68
	64QAM	1	0	17.24	17.67	17.68
		1	25	17.22	17.70	17.64
		1	49	17.19	17.68	17.62
		25	0	16.16	16.67	16.53
		25	12	16.17	16.72	16.49
		25	25	16.18	16.68	16.48
		50	0	16.16	16.65	16.44

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	19.34	19.36	19.29
		1	37	19.34	19.36	19.31
		1	74	19.31	19.36	19.30
		36	0	18.31	18.55	18.40
		36	20	18.28	18.50	18.41
		36	39	18.24	18.46	18.37
		75	0	18.27	18.42	18.36
	16QAM	1	0	18.25	18.40	18.37
		1	37	18.21	18.38	18.34
		1	74	18.24	18.41	18.31
		36	0	17.46	17.58	17.51
		36	20	17.52	17.56	17.52
		36	39	17.54	17.55	17.51
		75	0	17.58	17.56	17.48
	64QAM	1	0	17.58	17.59	17.45
		1	37	17.56	17.62	17.46
		1	74	17.55	17.66	17.42
		36	0	16.57	16.62	16.43
		36	20	16.59	16.64	16.41
		36	39	16.55	16.67	16.41
		75	0	16.59	16.70	16.43

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	19.36	19.39	19.29
		1	50	19.38	19.41	19.33
		1	99	19.35	19.41	19.30
		50	0	18.53	18.53	18.32
		50	25	18.58	18.51	18.35
		50	50	18.61	18.50	18.33
		100	0	18.62	18.47	18.38
	16QAM	1	0	18.59	18.48	18.40
		1	50	18.63	18.50	18.42
		1	99	18.64	18.50	18.40
		50	0	17.90	17.55	17.51
		50	25	17.95	17.48	17.48
		50	50	17.94	17.49	17.47
		100	0	17.92	17.54	17.52
	64QAM	1	0	17.96	17.57	17.48
		1	50	17.95	17.55	17.49
		1	99	17.98	17.58	17.47
		50	0	16.96	16.60	16.47
		50	25	16.94	16.58	16.47
		50	50	16.99	16.59	16.45
		100	0	17.01	16.60	16.48

LTE Band 5

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	22.19	22.24	22.16
		1	3	22.23	22.27	22.21
		1	5	22.21	22.26	22.20
		3	0	21.32	21.32	21.21
		3	1	21.34	21.27	21.23
		3	3	21.32	21.28	21.25
		6	0	21.34	21.27	21.30
	16QAM	1	0	21.34	21.29	21.31
		1	3	21.34	21.32	21.34
		1	5	21.39	21.28	21.34
		3	0	20.61	20.34	20.50
		3	1	20.66	20.38	20.51
		3	3	20.67	20.40	20.50
		6	0	20.64	20.44	20.48
	64QAM	1	0	20.62	20.48	20.44
		1	3	20.61	20.46	20.48
		1	5	20.65	20.49	20.44
		3	0	19.61	19.45	19.42
		3	1	19.62	19.40	19.42
		3	3	19.62	19.35	19.39
		6	0	19.66	19.40	19.41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0	22.17	22.33	22.27
		1	8	22.22	22.34	22.28
		1	14	22.19	22.32	22.25
		8	0	21.38	21.42	21.45
		8	4	21.42	21.40	21.48
		8	7	21.46	21.42	21.50
		15	0	21.50	21.45	21.47
	16QAM	1	0	21.46	21.47	21.45
		1	8	21.50	21.44	21.47
		1	14	21.54	21.47	21.48
		8	0	20.72	20.68	20.68
		8	4	20.69	20.73	20.66
		8	7	20.72	20.68	20.63
		15	0	20.73	20.71	20.62
	64QAM	1	0	20.69	20.68	20.62
		1	8	20.69	20.67	20.61
		1	14	20.64	20.66	20.59
		8	0	19.66	19.62	19.54
		8	4	19.62	19.66	19.53
		8	7	19.63	19.67	19.55
		15	0	19.63	19.70	19.51

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0	22.20	22.29	22.28
		1	13	22.25	22.29	22.31
		1	24	22.23	22.29	22.29
		12	0	21.38	21.47	21.52
		12	6	21.40	21.49	21.48
		12	13	21.39	21.52	21.48
		25	0	21.39	21.52	21.46
	16QAM	1	0	21.38	21.47	21.43
		1	13	21.35	21.47	21.39
		1	24	21.37	21.45	21.37
		12	0	20.43	20.49	20.63
		12	6	20.44	20.46	20.66
		12	13	20.41	20.44	20.71
		25	0	20.40	20.47	20.75
	64QAM	1	0	20.36	20.45	20.70
		1	13	20.38	20.48	20.65
		1	24	20.34	20.43	20.69
		12	0	19.30	19.38	19.62
		12	6	19.35	19.34	19.60
		12	13	19.37	19.31	19.65
		25	0	19.38	19.32	19.65

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0	22.29	22.28	22.27
		1	25	22.29	22.32	22.29
		1	49	22.25	22.31	22.26
		25	0	21.33	21.43	21.29
		25	12	21.36	21.45	21.27
		25	25	21.36	21.46	21.23
		50	0	21.34	21.48	21.25
	16QAM	1	0	21.31	21.46	21.27
		1	25	21.32	21.42	21.29
		1	49	21.33	21.44	21.26
		25	0	20.49	20.62	20.42
		25	12	20.47	20.58	20.44
		25	25	20.47	20.60	20.48
		50	0	20.49	20.64	20.49
	64QAM	1	0	20.44	20.66	20.46
		1	25	20.47	20.65	20.50
		1	49	20.46	20.66	20.48
		25	0	19.37	19.69	19.50
		25	12	19.41	19.66	19.46
		25	25	19.39	19.63	19.42
		50	0	19.36	19.62	19.41

LTE Band 7

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	20.21	20.29	20.27
		1	13	20.25	20.30	20.29
		1	24	20.25	20.27	20.29
		12	0	19.37	19.44	19.44
		12	6	19.33	19.44	19.49
		12	13	19.33	19.45	19.50
		25	0	19.34	19.43	19.48
	16QAM	1	0	19.35	19.41	19.49
		1	13	19.33	19.41	19.47
		1	24	19.29	19.41	19.49
		12	0	18.41	18.48	18.63
		12	6	18.34	18.41	18.64
		12	13	18.36	18.41	18.60
		25	0	18.40	18.39	18.64
	64QAM	1	0	18.39	18.39	18.60
		1	13	18.35	18.43	18.65
		1	24	18.38	18.42	18.69
		12	0	17.34	17.34	17.71
		12	6	17.37	17.30	17.75
		12	13	17.33	17.33	17.76
		25	0	17.31	17.36	17.72

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0	20.26	20.34	20.30
		1	25	20.28	20.37	20.34
		1	49	20.28	20.33	20.29
		25	0	19.31	19.45	19.41
		25	12	19.27	19.43	19.37
		25	25	19.29	19.45	19.41
		50	0	19.28	19.41	19.43
	16QAM	1	0	19.26	19.44	19.40
		1	25	19.27	19.48	19.38
		1	49	19.25	19.51	19.33
		25	0	18.49	18.62	18.59
		25	12	18.52	18.57	18.58
		25	25	18.52	18.53	18.57
		50	0	18.53	18.50	18.56
	64QAM	1	0	18.55	18.47	18.55
		1	25	18.53	18.50	18.57
		1	49	18.57	18.46	18.53
		25	0	17.56	17.45	17.43
		25	12	17.58	17.46	17.45
		25	25	17.53	17.51	17.41
		50	0	17.55	17.50	17.40

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0	20.27	20.31	20.31
		1	37	20.27	20.34	20.36
		1	74	20.26	20.34	20.35
		36	0	19.40	19.50	19.46
		36	20	19.35	19.54	19.42
		36	39	19.35	19.54	19.42
		75	0	19.31	19.51	19.42
	16QAM	1	0	19.29	19.49	19.46
		1	37	19.29	19.54	19.47
		1	74	19.30	19.55	19.51
		36	0	18.45	18.80	18.66
		36	20	18.39	18.74	18.61
		36	39	18.41	18.78	18.59
		75	0	18.40	18.77	18.63
	64QAM	1	0	18.36	18.73	18.59
		1	37	18.31	18.77	18.63
		1	74	18.27	18.73	18.63
		36	0	17.29	17.70	17.57
		36	20	17.32	17.75	17.53
		36	39	17.36	17.75	17.48
		75	0	17.34	17.74	17.49

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0	20.29	20.35	20.28
		1	50	20.32	20.37	20.31
		1	99	20.31	20.34	20.26
		50	0	19.38	19.42	19.39
		50	25	19.36	19.42	19.40
		50	50	19.40	19.44	19.42
		100	0	19.42	19.42	19.44
	16QAM	1	0	19.45	19.39	19.43
		1	50	19.45	19.35	19.41
		1	99	19.44	19.31	19.40
		50	0	18.66	18.45	18.45
		50	25	18.70	18.46	18.50
		50	50	18.70	18.42	18.52
		100	0	18.71	18.39	18.54
	64QAM	1	0	18.75	18.44	18.53
		1	50	18.75	18.48	18.51
		1	99	18.74	18.43	18.53
		50	0	17.70	17.38	17.47
		50	25	17.67	17.39	17.50
		50	50	17.66	17.42	17.49
		100	0	17.66	17.40	17.53

LTE Band 38

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37775	38000	38225
5MHz	QPSK	1	0	19.79	19.79	19.76
		1	13	19.81	19.81	19.79
		1	24	19.81	19.79	19.76
		12	0	18.88	19.02	18.91
		12	6	18.83	19.06	18.87
		12	13	18.88	19.02	18.90
		25	0	18.86	18.98	18.94
	16QAM	1	0	18.91	18.97	18.93
		1	13	18.92	19.01	18.97
		1	24	18.94	18.99	18.93
		12	0	18.10	18.08	17.95
		12	6	18.08	18.03	17.99
		12	13	18.12	18.08	17.95
		25	0	18.08	18.12	17.97
	64QAM	1	0	18.10	18.12	17.92
		1	13	18.08	18.14	17.91
		1	24	18.10	18.09	17.95
		12	0	17.06	17.03	16.97
		12	6	17.02	17.07	16.99
		12	13	17.06	17.02	16.94
		25	0	17.07	17.07	16.91

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37800	38000	38200
10MHz	QPSK	1	0	19.76	19.79	19.80
		1	25	19.80	19.84	19.84
		1	49	19.78	19.79	19.84
		25	0	18.93	18.95	18.85
		25	12	18.95	18.93	18.83
		25	25	18.98	18.89	18.84
		50	0	18.95	18.87	18.82
	16QAM	1	0	18.95	18.86	18.81
		1	25	19.00	18.83	18.85
		1	49	19.02	18.79	18.86
		25	0	18.14	17.99	18.04
		25	12	18.12	17.98	18.03
		25	25	18.11	17.98	18.00
		50	0	18.08	17.99	18.02
	64QAM	1	0	18.08	17.95	18.00
		1	25	18.08	17.92	18.04
		1	49	18.06	17.88	18.03
		25	0	17.06	16.82	16.93
		25	12	17.06	16.85	16.89
		25	25	17.02	16.89	16.93
		50	0	17.05	16.93	16.96

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37825	38000	38175
15MHz	QPSK	1	0	19.78	19.84	19.78
		1	37	19.81	19.85	19.81
		1	74	19.77	19.81	19.81
		36	0	18.87	18.89	18.98
		36	20	18.87	18.93	18.95
		36	39	18.84	18.92	18.98
		75	0	18.88	18.94	18.94
	16QAM	1	0	18.91	18.91	18.90
		1	37	18.94	18.92	18.94
		1	74	18.98	18.95	18.95
		36	0	18.05	18.06	18.16
		36	20	18.05	18.02	18.19
		36	39	18.09	17.99	18.18
		75	0	18.14	17.95	18.14
	64QAM	1	0	18.12	18.00	18.15
		1	37	18.14	17.98	18.16
		1	74	18.12	17.94	18.14
		36	0	17.10	16.96	17.06
		36	20	17.15	16.98	17.10
		36	39	17.19	16.94	17.05
		75	0	17.16	16.96	17.06

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37850	38000	38150
20MHz	QPSK	1	0	19.81	19.81	19.80
		1	50	19.83	19.86	19.84
		1	99	19.82	19.82	19.80
		50	0	18.93	18.82	18.80
		50	25	18.88	18.83	18.80
		50	50	18.86	18.80	18.84
		100	0	18.82	18.85	18.80
	16QAM	1	0	18.81	18.89	18.82
		1	50	18.84	18.84	18.82
		1	99	18.83	18.82	18.86
		50	0	18.01	18.07	18.10
		50	25	18.05	18.10	18.07
		50	50	18.04	18.14	18.06
		100	0	17.99	18.09	18.04
	64QAM	1	0	17.96	18.09	18.00
		1	50	17.92	18.07	17.99
		1	99	17.94	18.11	17.98
		50	0	16.86	17.03	16.99
		50	25	16.87	17.06	16.98
		50	50	16.90	17.07	16.93
		100	0	16.93	17.10	16.97

LTE Band 41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40065	40640	41215
5MHz	QPSK	1	0	19.51	19.54	19.46
		1	13	19.54	19.56	19.48
		1	24	19.51	19.54	19.47
		12	0	18.65	18.60	18.63
		12	6	18.65	18.63	18.66
		12	13	18.69	18.60	18.66
		25	0	18.73	18.61	18.71
	16QAM	1	0	18.70	18.62	18.75
		1	13	18.67	18.61	18.79
		1	24	18.63	18.62	18.74
		12	0	17.70	17.76	17.91
		12	6	17.74	17.74	17.86
		12	13	17.74	17.71	17.82
		25	0	17.72	17.74	17.77
	64QAM	1	0	17.73	17.70	17.82
		1	13	17.73	17.65	17.79
		1	24	17.68	17.68	17.81
		12	0	16.67	16.60	16.71
		12	6	16.69	16.63	16.73
		12	13	16.69	16.68	16.71
		25	0	16.70	16.64	16.71

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40090	40640	41190
10MHz	QPSK	1	0	19.50	19.55	19.49
		1	25	19.54	19.55	19.51
		1	49	19.50	19.52	19.48
		25	0	18.65	18.68	18.49
		25	12	18.66	18.66	18.48
		25	25	18.68	18.71	18.44
		50	0	18.72	18.70	18.46
	16QAM	1	0	18.72	18.74	18.46
		1	25	18.74	18.75	18.51
		1	49	18.70	18.71	18.53
		25	0	17.96	17.94	17.62
		25	12	18.00	17.99	17.58
		25	25	17.96	18.00	17.60
		50	0	17.97	17.97	17.63
	64QAM	1	0	18.02	17.94	17.63
		1	25	18.01	17.92	17.60
		1	49	18.03	17.93	17.63
		25	0	17.01	16.87	16.54
		25	12	16.97	16.85	16.51
		25	25	16.94	16.89	16.49
		50	0	16.99	16.86	16.51

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40115	40640	41165
15MHz	QPSK	1	0	19.50	19.54	19.51
		1	37	19.50	19.57	19.54
		1	74	19.50	19.53	19.52
		36	0	18.74	18.70	18.67
		36	20	18.75	18.72	18.70
		36	39	18.72	18.72	18.74
		75	0	18.76	18.69	18.71
	16QAM	1	0	18.72	18.66	18.68
		1	37	18.68	18.68	18.70
		1	74	18.72	18.66	18.66
		36	0	17.73	17.66	17.81
		36	20	17.68	17.64	17.77
		36	39	17.69	17.61	17.82
		75	0	17.69	17.66	17.78
	64QAM	1	0	17.69	17.68	17.75
		1	37	17.65	17.68	17.77
		1	74	17.69	17.71	17.76
		36	0	16.61	16.65	16.75
		36	20	16.56	16.68	16.72
		36	39	16.54	16.67	16.76
		75	0	16.50	16.66	16.80

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40140	40640	41140
20MHz	QPSK	1	0	19.49	19.58	19.53
		1	50	19.52	19.58	19.55
		1	99	19.52	19.57	19.52
		50	0	18.75	18.65	18.73
		50	25	18.73	18.60	18.76
		50	50	18.76	18.55	18.79
		100	0	18.72	18.53	18.83
	16QAM	1	0	18.76	18.53	18.78
		1	50	18.78	18.49	18.80
		1	99	18.74	18.49	18.78
		50	0	17.96	17.64	18.03
		50	25	17.90	17.61	17.99
		50	50	17.89	17.57	18.03
		100	0	17.85	17.55	18.00
	64QAM	1	0	17.86	17.52	17.97
		1	50	17.89	17.53	18.00
		1	99	17.91	17.50	18.03
		50	0	16.91	16.49	16.94
		50	25	16.89	16.48	16.93
		50	50	16.93	16.51	16.88
		100	0	16.97	16.52	16.92

LTE Band 66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19207	19575	19943
1.4MHz	QPSK	1	0	20.67	20.64	20.55
		1	3	20.69	20.67	20.58
		1	5	20.67	20.66	20.55
		3	0	19.80	19.77	19.57
		3	1	19.83	19.82	19.58
		3	3	19.84	19.84	19.62
		6	0	19.89	19.88	19.66
	16QAM	1	0	19.85	19.87	19.66
		1	3	19.88	19.88	19.67
		1	5	19.93	19.89	19.72
		3	0	18.96	18.90	18.80
		3	1	18.97	18.87	18.78
		3	3	18.94	18.91	18.80
		6	0	18.89	18.88	18.84
	64QAM	1	0	18.89	18.88	18.81
		1	3	18.86	18.93	18.81
		1	5	18.89	18.97	18.78
		3	0	17.85	17.87	17.77
		3	1	17.89	17.90	17.73
		3	3	17.91	17.89	17.73
		6	0	17.88	17.89	17.76

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19215	19575	19935
3MHz	QPSK	1	0	20.64	20.64	20.65
		1	8	20.69	20.67	20.66
		1	14	20.65	20.67	20.61
		8	0	19.79	19.70	19.70
		8	4	19.79	19.72	19.66
		8	7	19.76	19.71	19.70
		15	0	19.71	19.73	19.68
	16QAM	1	0	19.66	19.72	19.64
		1	8	19.70	19.74	19.61
		1	14	19.74	19.75	19.60
		8	0	18.89	18.94	18.61
		8	4	18.92	18.92	18.61
		8	7	18.90	18.95	18.57
		15	0	18.87	19.00	18.54
	64QAM	1	0	18.89	19.02	18.50
		1	8	18.85	19.02	18.52
		1	14	18.88	19.07	18.55
		8	0	17.87	18.06	17.58
		8	4	17.86	18.06	17.57
		8	7	17.82	18.04	17.61
		15	0	17.81	18.04	17.63

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19225	19575	19925
5MHz	QPSK	1	0	20.65	20.66	20.67
		1	13	20.67	20.67	20.68
		1	24	20.63	20.64	20.64
		12	0	19.64	19.66	19.64
		12	6	19.62	19.65	19.62
		12	13	19.63	19.69	19.62
		25	0	19.59	19.74	19.64
	16QAM	1	0	19.63	19.70	19.66
		1	13	19.59	19.68	19.67
		1	24	19.56	19.72	19.70
		12	0	18.58	18.89	18.80
		12	6	18.61	18.92	18.81
		12	13	18.62	18.94	18.81
		25	0	18.58	18.95	18.81
	64QAM	1	0	18.60	18.98	18.77
		1	13	18.56	19.01	18.77
		1	24	18.57	19.05	18.77
		12	0	17.58	18.01	17.76
		12	6	17.53	18.01	17.78
		12	13	17.54	17.97	17.80
		25	0	17.53	17.98	17.84

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19250	19575	19900
10MHz	QPSK	1	0	20.69	20.69	20.66
		1	25	20.72	20.70	20.67
		1	49	20.69	20.68	20.66
		25	0	19.80	19.79	19.71
		25	12	19.85	19.83	19.73
		25	25	19.82	19.85	19.75
		50	0	19.80	19.89	19.79
	16QAM	1	0	19.78	19.87	19.78
		1	25	19.83	19.84	19.75
		1	49	19.84	19.82	19.72
		25	0	19.09	18.90	18.91
		25	12	19.05	18.85	18.89
		25	25	19.08	18.89	18.91
		50	0	19.07	18.85	18.94
	64QAM	1	0	19.03	18.86	18.96
		1	25	18.99	18.84	18.94
		1	49	18.95	18.86	18.93
		25	0	17.91	17.82	17.91
		25	12	17.89	17.84	17.94
		25	25	17.91	17.87	17.98
		50	0	17.96	17.82	18.00

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19275	19575	19875
15MHz	QPSK	1	0	20.69	20.65	20.66
		1	37	20.70	20.68	20.67
		1	74	20.66	20.63	20.64
		36	0	19.87	19.88	19.87
		36	20	19.87	19.87	19.90
		36	39	19.83	19.84	19.89
		75	0	19.88	19.81	19.85
	16QAM	1	0	19.89	19.81	19.80
		1	37	19.90	19.76	19.80
		1	74	19.88	19.74	19.82
		36	0	19.06	18.83	19.00
		36	20	19.02	18.89	18.98
		36	39	19.01	18.87	18.95
		75	0	19.06	18.90	18.99
	64QAM	1	0	19.10	18.92	18.99
		1	37	19.11	18.88	18.99
		1	74	19.11	18.86	18.97
		36	0	18.01	17.77	18.00
		36	20	17.97	17.73	18.00
		36	39	18.01	17.75	18.05
		75	0	18.05	17.71	18.02

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19300	19575	19850
20MHz	QPSK	1	0	20.69	20.75	20.66
		1	50	20.72	20.76	20.69
		1	99	20.67	20.72	20.66
		50	0	19.89	19.91	19.78
		50	25	19.85	19.92	19.82
		50	50	19.80	19.94	19.81
		100	0	19.78	19.99	19.86
	16QAM	1	0	19.75	20.02	19.86
		1	50	19.80	20.01	19.89
		1	99	19.80	20.03	19.93
		50	0	18.89	19.08	19.03
		50	25	18.94	19.05	19.07
		50	50	18.89	19.02	19.04
		100	0	18.90	18.98	19.05
	64QAM	1	0	18.93	18.99	19.04
		1	50	18.92	18.97	19.05
		1	99	18.91	18.94	19.07
		50	0	17.89	17.91	18.01
		50	25	17.88	17.94	18.00
		50	50	17.93	17.90	17.99
		100	0	17.90	17.92	18.00

Head Synchronous transmission power (ANT2)

Band: GSM850	Burst Average Power (dBm)			Frame Average Power (dBm)		
	128	190	251	128	190	251
GSM (CS)	28.21	28.10	28.02	19.21	19.10	19.02
GPRS/EDGE (GMSK, 1 Tx slot)	28.21	28.16	28.07	19.21	19.16	19.07
GPRS/EDGE (GMSK, 2 Tx slots)	26.44	26.36	26.23	20.44	20.36	20.23
GPRS/EDGE (GMSK, 3 Tx slots)	24.87	24.80	24.64	20.61	20.54	20.38
GPRS/EDGE (GMSK, 4 Tx slots)	23.54	23.38	23.19	20.54	20.38	20.19
EDGE (8PSK, 1 Tx slot)	22.58	22.67	22.74	13.58	13.67	13.74
EDGE (8PSK, 2 Tx slots)	20.46	20.58	20.45	14.46	14.58	14.45
EDGE (8PSK, 3 Tx slots)	18.23	18.36	18.26	13.97	14.10	14.00
EDGE (8PSK, 4 Tx slots)	17.37	17.57	17.52	14.37	14.57	14.52

Band: DCS1900	Burst Average Power (dBm)			Frame Average Power (dBm)		
	513	661	810	513	661	810
Channel	513	661	810	513	661	810
GSM (CS)	24.20	24.51	24.74	15.20	15.51	15.74
GPRS/EDGE (GMSK, 1 Tx slot)	24.21	24.51	24.71	15.21	15.51	15.71
GPRS/EDGE (GMSK, 2 Tx slots)	22.15	22.42	22.71	16.15	16.42	16.71
GPRS/EDGE (GMSK, 3 Tx slots)	20.63	20.88	21.16	16.37	16.62	16.90
GPRS/EDGE (GMSK, 4 Tx slots)	19.10	19.50	19.68	16.10	16.50	16.68
EDGE (8PSK, 1 Tx slot)	20.88	20.88	21.18	11.88	11.88	12.18
EDGE (8PSK, 2 Tx slots)	17.96	18.00	18.34	11.96	12.00	12.34
EDGE (8PSK, 3 Tx slots)	15.74	15.81	16.08	11.48	11.55	11.82
EDGE (8PSK, 4 Tx slots)	15.05	15.02	15.33	12.05	12.02	12.33

UMTS Band II		Conducted Power (dBm)		
		9262	9400	9538
WCDMA	12.2kbps RMC	17.55	17.69	17.59
	64kbps RMC	17.33	17.61	17.55
	144kbps RMC	17.31	17.57	17.58
	384kbps RMC	17.29	17.61	17.55
HSDPA	Subtest 1	17.53	17.58	17.57
	Subtest 2	16.76	16.93	16.92
	Subtest 3	16.72	16.87	16.85
	Subtest 4	16.75	16.82	16.81
HSUPA	Subtest 1	15.66	15.33	15.21
	Subtest 2	15.28	15.34	15.35
	Subtest 3	16.22	16.41	16.32
	Subtest 4	14.74	14.83	14.80
	Subtest 5	16.04	16.11	16.12

UMTS Band IV		Conducted Power (dBm)		
		1312	1412	1513
WCDMA	12.2kbps RMC	17.35	17.38	17.35
	64kbps RMC	17.28	17.33	17.30
	144kbps RMC	17.30	17.25	17.35
	384kbps RMC	17.33	17.37	17.35
HSDPA	Subtest 1	17.33	17.31	17.28
	Subtest 2	16.75	16.55	16.68
	Subtest 3	16.62	16.68	16.56
	Subtest 4	16.71	16.49	16.61
HSUPA	Subtest 1	15.61	14.99	15.04
	Subtest 2	15.27	15.28	15.29
	Subtest 3	16.07	16.04	15.99
	Subtest 4	14.61	14.50	14.64
	Subtest 5	15.98	15.90	15.92

UMTS Band V		Conducted Power (dBm)		
		4133	4175	4232
WCDMA	12.2kbps RMC	19.31	19.43	19.45
	64kbps RMC	19.24	19.38	19.40
	144kbps RMC	19.26	19.30	19.45
	384kbps RMC	19.29	19.42	19.45
HSDPA	Subtest 1	19.26	19.38	19.41
	Subtest 2	18.67	18.73	18.71
	Subtest 3	18.63	18.65	18.67
	Subtest 4	18.62	18.53	18.62
HSUPA	Subtest 1	17.44	17.02	17.02
	Subtest 2	17.07	17.21	17.15
	Subtest 3	17.90	18.08	18.06
	Subtest 4	16.61	16.77	16.71
	Subtest 5	17.98	18.01	18.03

LTE Band 2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	14.54	14.61	14.51
		1	3	14.57	14.61	14.53
		1	5	14.54	14.58	14.48
		3	0	13.73	13.72	13.63
		3	1	13.70	13.71	13.62
		3	3	13.70	13.67	13.59
		6	0	13.67	13.63	13.55
	16QAM	1	0	13.65	13.67	13.56
		1	3	13.65	13.63	13.57
		1	5	13.69	13.59	13.62
		3	0	12.89	12.60	12.69
		3	1	12.92	12.54	12.68
		3	3	12.97	12.52	12.66
		6	0	12.94	12.50	12.63
	64QAM	1	0	12.92	12.53	12.68
		1	3	12.90	12.51	12.65
		1	5	12.93	12.49	12.63
		3	0	11.83	11.47	11.56
		3	1	11.84	11.42	11.56
		3	3	11.81	11.45	11.56
		6	0	11.80	11.49	11.60

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0	14.56	14.58	14.48
		1	8	14.59	14.61	14.51
		1	14	14.56	14.57	14.49
		8	0	13.59	13.76	13.71
		8	4	13.60	13.75	13.68
		8	7	13.57	13.75	13.64
		15	0	13.57	13.76	13.66
	16QAM	1	0	13.52	13.74	13.70
		1	8	13.53	13.70	13.74
		1	14	13.48	13.72	13.75
		8	0	12.54	12.74	12.82
		8	4	12.58	12.68	12.82
		8	7	12.59	12.73	12.86
		15	0	12.57	12.69	12.87
	64QAM	1	0	12.55	12.66	12.84
		1	8	12.56	12.69	12.84
		1	14	12.53	12.66	12.81
		8	0	11.47	11.57	11.81
		8	4	11.52	11.58	11.84
		8	7	11.47	11.60	11.84
		15	0	11.46	11.59	11.80

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	14.57	14.54	14.50
		1	13	14.62	14.56	14.53
		1	24	14.58	14.54	14.53
		12	0	13.79	13.60	13.69
		12	6	13.83	13.62	13.70
		12	13	13.80	13.60	13.69
		25	0	13.83	13.57	13.70
	16QAM	1	0	13.85	13.53	13.71
		1	13	13.82	13.57	13.72
		1	24	13.87	13.56	13.73
		12	0	12.97	12.78	12.97
		12	6	13.03	12.75	12.93
		12	13	13.07	12.73	12.90
		25	0	13.04	12.71	12.87
	64QAM	1	0	13.02	12.73	12.85
		1	13	13.02	12.75	12.83
		1	24	13.04	12.71	12.85
		12	0	12.00	11.73	11.87
		12	6	12.04	11.70	11.82
		12	13	12.07	11.74	11.86
		25	0	12.12	11.78	11.85

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	14.54	14.53	14.47
		1	25	14.58	14.53	14.49
		1	49	14.54	14.50	14.46
		25	0	13.74	13.55	13.47
		25	12	13.72	13.53	13.44
		25	25	13.70	13.57	13.46
		50	0	13.68	13.58	13.50
	16QAM	1	0	13.72	13.55	13.55
		1	25	13.76	13.57	13.51
		1	49	13.71	13.59	13.53
		25	0	12.78	12.67	12.79
		25	12	12.82	12.68	12.74
		25	25	12.86	12.67	12.72
		50	0	12.86	12.69	12.74
	64QAM	1	0	12.84	12.65	12.75
		1	25	12.87	12.68	12.77
		1	49	12.86	12.63	12.79
		25	0	11.87	11.66	11.74
		25	12	11.86	11.69	11.69
		25	25	11.90	11.66	11.71
		50	0	11.91	11.68	11.67

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	14.56	14.55	14.48
		1	37	14.59	14.56	14.51
		1	74	14.55	14.52	14.50
		36	0	13.59	13.75	13.51
		36	20	13.57	13.78	13.50
		36	39	13.55	13.74	13.47
		75	0	13.57	13.71	13.51
	16QAM	1	0	13.59	13.70	13.53
		1	37	13.62	13.73	13.51
		1	74	13.64	13.78	13.48
		36	0	12.86	12.86	12.69
		36	20	12.90	12.81	12.63
		36	39	12.94	12.83	12.67
		75	0	12.92	12.85	12.70
	64QAM	1	0	12.89	12.84	12.74
		1	37	12.87	12.86	12.75
		1	74	12.90	12.90	12.73
		36	0	11.81	11.90	11.67
		36	20	11.78	11.86	11.71
		36	39	11.78	11.83	11.69
		75	0	11.78	11.82	11.67

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	14.55	14.59	14.54
		1	50	14.58	14.61	14.55
		1	99	14.54	14.59	14.51
		50	0	13.55	13.61	13.52
		50	25	13.50	13.64	13.54
		50	50	13.51	13.67	13.51
		100	0	13.48	13.70	13.47
	16QAM	1	0	13.44	13.65	13.48
		1	50	13.42	13.67	13.44
		1	99	13.42	13.65	13.48
		50	0	12.43	12.71	12.66
		50	25	12.45	12.76	12.68
		50	50	12.44	12.79	12.66
		100	0	12.48	12.79	12.63
	64QAM	1	0	12.53	12.77	12.63
		1	50	12.55	12.81	12.64
		1	99	12.57	12.79	12.69
		50	0	11.51	11.79	11.60
		50	25	11.46	11.81	11.61
		50	50	11.43	11.82	11.61
		100	0	11.47	11.87	11.57

LTE Band 4

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	16.44	16.46	16.52
		1	3	16.49	16.50	16.52
		1	5	16.48	16.46	16.48
		3	0	15.56	15.69	15.67
		3	1	15.55	15.69	15.62
		3	3	15.52	15.71	15.58
		6	0	15.50	15.69	15.56
	16QAM	1	0	15.48	15.70	15.55
		1	3	15.51	15.70	15.59
		1	5	15.47	15.68	15.55
		3	0	14.64	14.90	14.72
		3	1	14.59	14.91	14.77
		3	3	14.58	14.95	14.77
		6	0	14.61	14.90	14.81
	64QAM	1	0	14.61	14.87	14.76
		1	3	14.61	14.89	14.80
		1	5	14.64	14.85	14.80
		3	0	13.55	13.76	13.71
		3	1	13.55	13.75	13.72
		3	3	13.59	13.70	13.70
		6	0	13.62	13.71	13.74

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19965	20175	20385
3MHz	QPSK	1	0	16.51	16.54	16.55
		1	8	16.55	16.56	16.56
		1	14	16.54	16.53	16.53
		8	0	15.70	15.68	15.58
		8	4	15.73	15.69	15.55
		8	7	15.71	15.66	15.57
		15	0	15.75	15.66	15.62
	16QAM	1	0	15.70	15.67	15.65
		1	8	15.68	15.65	15.64
		1	14	15.67	15.61	15.65
		8	0	14.68	14.75	14.77
		8	4	14.67	14.71	14.76
		8	7	14.70	14.74	14.76
		15	0	14.66	14.77	14.72
	64QAM	1	0	14.67	14.77	14.73
		1	8	14.64	14.76	14.75
		1	14	14.60	14.71	14.78
		8	0	13.54	13.68	13.74
		8	4	13.56	13.66	13.71
		8	7	13.56	13.66	13.69
		15	0	13.51	13.64	13.67

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0	16.57	16.49	16.50
		1	13	16.59	16.51	16.54
		1	24	16.55	16.47	16.54
		12	0	15.63	15.70	15.74
		12	6	15.65	15.75	15.77
		12	13	15.61	15.73	15.78
		25	0	15.61	15.68	15.77
	16QAM	1	0	15.58	15.66	15.79
		1	13	15.60	15.64	15.79
		1	24	15.60	15.61	15.76
		12	0	14.82	14.86	14.81
		12	6	14.81	14.82	14.78
		12	13	14.85	14.80	14.75
		25	0	14.81	14.77	14.77
	64QAM	1	0	14.80	14.73	14.78
		1	13	14.77	14.70	14.79
		1	24	14.81	14.69	14.81
		12	0	13.80	13.60	13.82
		12	6	13.84	13.55	13.83
		12	13	13.83	13.54	13.87
		25	0	13.81	13.53	13.85

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0	16.54	16.46	16.45
		1	25	16.56	16.49	16.50
		1	49	16.54	16.49	16.46
		25	0	15.74	15.65	15.61
		25	12	15.69	15.68	15.65
		25	25	15.69	15.64	15.60
		50	0	15.71	15.63	15.55
	16QAM	1	0	15.73	15.66	15.53
		1	25	15.77	15.70	15.50
		1	49	15.75	15.75	15.52
		25	0	14.93	14.86	14.57
		25	12	14.96	14.79	14.63
		25	25	14.96	14.77	14.61
		50	0	14.95	14.78	14.66
	64QAM	1	0	14.97	14.82	14.67
		1	25	14.98	14.77	14.64
		1	49	15.02	14.82	14.62
		25	0	13.99	13.72	13.58
		25	12	13.95	13.68	13.53
		25	25	13.91	13.73	13.49
		50	0	13.96	13.73	13.45

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	16.50	16.52	16.44
		1	37	16.53	16.53	16.48
		1	74	16.51	16.50	16.45
		36	0	15.67	15.63	15.50
		36	20	15.68	15.60	15.46
		36	39	15.68	15.60	15.45
		75	0	15.73	15.55	15.48
	16QAM	1	0	15.68	15.56	15.49
		1	37	15.70	15.54	15.50
		1	74	15.67	15.58	15.54
		36	0	14.88	14.78	14.78
		36	20	14.81	14.74	14.79
		36	39	14.82	14.72	14.82
		75	0	14.83	14.67	14.82
	64QAM	1	0	14.86	14.71	14.82
		1	37	14.87	14.74	14.82
		1	74	14.89	14.76	14.78
		36	0	13.83	13.71	13.73
		36	20	13.81	13.68	13.71
		36	39	13.78	13.69	13.69
		75	0	13.73	13.70	13.69

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	16.53	16.56	16.51
		1	50	16.54	16.59	16.54
		1	99	16.50	16.55	16.52
		50	0	15.62	15.74	15.66
		50	25	15.62	15.72	15.68
		50	50	15.65	15.73	15.63
		100	0	15.61	15.75	15.66
	16QAM	1	0	15.63	15.74	15.62
		1	50	15.62	15.69	15.66
		1	99	15.59	15.73	15.70
		50	0	14.79	14.83	14.86
		50	25	14.82	14.88	14.85
		50	50	14.78	14.92	14.88
		100	0	14.83	14.91	14.87
	64QAM	1	0	14.84	14.93	14.86
		1	50	14.82	14.92	14.83
		1	99	14.85	14.93	14.82
		50	0	13.80	13.91	13.74
		50	25	13.81	13.91	13.79
		50	50	13.85	13.86	13.75
		100	0	13.82	13.86	13.72

LTE Band 5

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	18.78	18.71	18.77
		1	3	18.83	18.74	18.79
		1	5	18.81	18.70	18.76
		3	0	18.02	17.70	17.82
		3	1	18.05	17.69	17.80
		3	3	18.01	17.71	17.83
		6	0	18.00	17.73	17.82
	16QAM	1	0	18.01	17.77	17.84
		1	3	17.99	17.75	17.81
		1	5	18.04	17.71	17.81
		3	0	17.28	16.84	16.97
		3	1	17.29	16.86	16.92
		3	3	17.24	16.89	16.90
		6	0	17.23	16.91	16.94
	64QAM	1	0	17.26	16.89	16.94
		1	3	17.25	16.92	16.97
		1	5	17.29	16.90	16.99
		3	0	16.30	15.85	15.93
		3	1	16.35	15.84	15.89
		3	3	16.33	15.88	15.89
		6	0	16.33	15.91	15.93

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0	18.88	18.79	18.74
		1	8	18.88	18.81	18.78
		1	14	18.85	18.77	18.78
		8	0	18.06	17.97	17.91
		8	4	18.07	17.93	17.91
		8	7	18.11	17.91	17.90
		15	0	18.09	17.95	17.95
	16QAM	1	0	18.13	17.98	17.92
		1	8	18.15	17.95	17.96
		1	14	18.10	17.98	17.94
		8	0	17.32	17.18	17.02
		8	4	17.37	17.19	16.96
		8	7	17.38	17.18	16.94
		15	0	17.39	17.18	16.92
	64QAM	1	0	17.43	17.17	16.88
		1	8	17.46	17.18	16.85
		1	14	17.45	17.22	16.81
		8	0	16.46	16.16	15.71
		8	4	16.45	16.16	15.72
		8	7	16.43	16.15	15.74
		15	0	16.43	16.15	15.75

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0	18.82	18.80	18.74
		1	13	18.86	18.80	18.76
		1	24	18.84	18.78	18.74
		12	0	17.92	17.88	17.84
		12	6	17.89	17.90	17.87
		12	13	17.93	17.89	17.83
		25	0	17.92	17.89	17.87
	16QAM	1	0	17.94	17.87	17.89
		1	13	17.95	17.82	17.92
		1	24	17.94	17.82	17.95
		12	0	16.98	16.87	17.04
		12	6	16.99	16.83	17.07
		12	13	16.99	16.85	17.08
		25	0	16.97	16.84	17.09
	64QAM	1	0	16.97	16.89	17.13
		1	13	17.02	16.91	17.13
		1	24	17.00	16.90	17.12
		12	0	16.00	15.89	16.11
		12	6	15.97	15.90	16.06
		12	13	15.99	15.93	16.07
		25	0	15.97	15.92	16.06

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0	18.79	18.82	18.72
		1	25	18.81	18.83	18.74
		1	49	18.80	18.80	18.73
		25	0	17.80	18.00	17.78
		25	12	17.85	17.98	17.82
		25	25	17.85	17.96	17.85
		50	0	17.84	17.97	17.87
	16QAM	1	0	17.86	17.93	17.83
		1	25	17.88	17.97	17.82
		1	49	17.84	17.98	17.86
		25	0	16.95	17.05	16.86
		25	12	16.91	17.03	16.81
		25	25	16.90	17.06	16.80
		50	0	16.93	17.11	16.81
	64QAM	1	0	16.96	17.12	16.78
		1	25	17.00	17.12	16.75
		1	49	16.98	17.10	16.75
		25	0	15.98	16.09	15.69
		25	12	16.02	16.09	15.74
		25	25	16.01	16.06	15.70
		50	0	15.96	16.02	15.71

LTE Band 7

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	10.14	10.15	10.20
		1	13	10.19	10.17	10.21
		1	24	10.16	10.13	10.20
		12	0	9.30	9.30	9.32
		12	6	9.29	9.33	9.32
		12	13	9.26	9.31	9.36
		25	0	9.31	9.32	9.33
	16QAM	1	0	9.26	9.30	9.33
		1	13	9.28	9.30	9.35
		1	24	9.26	9.31	9.36
		12	0	8.26	8.36	8.38
		12	6	8.20	8.36	8.36
		12	13	8.16	8.31	8.34
		25	0	8.19	8.30	8.32
	64QAM	1	0	8.22	8.28	8.35
		1	13	8.18	8.28	8.39
		1	24	8.21	8.32	8.40
		12	0	7.15	7.23	7.37
		12	6	7.13	7.19	7.39
		12	13	7.17	7.24	7.34
		25	0	7.14	7.28	7.34

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0	10.14	10.17	10.20
		1	25	10.19	10.19	10.24
		1	49	10.17	10.18	10.24
		25	0	9.42	9.25	9.47
		25	12	9.38	9.26	9.52
		25	25	9.33	9.26	9.54
		50	0	9.34	9.28	9.51
	16QAM	1	0	9.36	9.26	9.52
		1	25	9.35	9.31	9.52
		1	49	9.35	9.35	9.51
		25	0	8.41	8.48	8.59
		25	12	8.45	8.45	8.60
		25	25	8.40	8.47	8.56
		50	0	8.44	8.44	8.53
	64QAM	1	0	8.46	8.42	8.50
		1	25	8.44	8.40	8.45
		1	49	8.41	8.38	8.44
		25	0	7.37	7.35	7.47
		25	12	7.41	7.38	7.46
		25	25	7.39	7.39	7.45
		50	0	7.41	7.41	7.48

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0	10.19	10.20	10.23
		1	37	10.22	10.22	10.25
		1	74	10.20	10.18	10.21
		36	0	9.43	9.23	9.30
		36	20	9.40	9.25	9.26
		36	39	9.44	9.28	9.23
		75	0	9.48	9.25	9.20
	16QAM	1	0	9.47	9.20	9.21
		1	37	9.47	9.17	9.24
		1	74	9.50	9.18	9.28
		36	0	8.67	8.41	8.43
		36	20	8.73	8.38	8.36
		36	39	8.71	8.33	8.40
		75	0	8.70	8.36	8.43
	64QAM	1	0	8.69	8.41	8.44
		1	37	8.71	8.40	8.46
		1	74	8.69	8.41	8.47
		36	0	7.66	7.35	7.43
		36	20	7.68	7.32	7.40
		36	39	7.71	7.29	7.36
		75	0	7.69	7.25	7.35

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0	10.16	10.21	10.18
		1	50	10.21	10.23	10.21
		1	99	10.16	10.23	10.16
		50	0	9.37	9.41	9.35
		50	25	9.41	9.42	9.34
		50	50	9.38	9.46	9.36
		100	0	9.41	9.41	9.39
	16QAM	1	0	9.39	9.38	9.43
		1	50	9.36	9.35	9.45
		1	99	9.31	9.35	9.41
		50	0	8.44	8.35	8.42
		50	25	8.38	8.35	8.46
		50	50	8.33	8.32	8.41
		100	0	8.31	8.32	8.37
	64QAM	1	0	8.32	8.32	8.35
		1	50	8.33	8.34	8.31
		1	99	8.32	8.31	8.27
		50	0	7.23	7.26	7.21
		50	25	7.22	7.30	7.25
		50	50	7.27	7.32	7.26
		100	0	7.28	7.31	7.25

LTE Band 38

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37775	38000	38225
5MHz	QPSK	1	0	14.08	14.24	14.12
		1	13	14.10	14.26	14.16
		1	24	14.05	14.23	14.13
		12	0	13.30	13.39	13.34
		12	6	13.25	13.39	13.30
		12	13	13.29	13.43	13.26
		25	0	13.33	13.43	13.30
	16QAM	1	0	13.38	13.46	13.33
		1	13	13.36	13.50	13.35
		1	24	13.38	13.49	13.31
		12	0	12.40	12.65	12.56
		12	6	12.40	12.60	12.58
		12	13	12.40	12.60	12.59
		25	0	12.42	12.63	12.58
	64QAM	1	0	12.43	12.62	12.60
		1	13	12.44	12.60	12.61
		1	24	12.41	12.56	12.65
		12	0	11.39	11.47	11.64
		12	6	11.36	11.46	11.65
		12	13	11.34	11.45	11.69
		25	0	11.37	11.48	11.70

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37800	38000	38200
10MHz	QPSK	1	0	14.11	14.25	14.13
		1	25	14.13	14.29	14.15
		1	49	14.11	14.27	14.11
		25	0	13.21	13.33	13.15
		25	12	13.23	13.32	13.13
		25	25	13.22	13.33	13.12
		50	0	13.21	13.33	13.15
	16QAM	1	0	13.26	13.36	13.17
		1	25	13.30	13.35	13.20
		1	49	13.26	13.37	13.16
		25	0	12.45	12.49	12.29
		25	12	12.42	12.44	12.33
		25	25	12.46	12.42	12.37
		50	0	12.46	12.45	12.40
	64QAM	1	0	12.50	12.43	12.44
		1	25	12.52	12.46	12.49
		1	49	12.54	12.47	12.52
		25	0	11.44	11.48	11.50
		25	12	11.48	11.43	11.50
		25	25	11.53	11.40	11.53
		50	0	11.52	11.35	11.50

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37825	38000	38175
15MHz	QPSK	1	0	14.16	14.21	14.15
		1	37	14.16	14.25	14.17
		1	74	14.14	14.21	14.15
		36	0	13.24	13.24	13.18
		36	20	13.21	13.20	13.22
		36	39	13.16	13.20	13.24
		75	0	13.16	13.21	13.23
	16QAM	1	0	13.16	13.16	13.20
		1	37	13.19	13.20	13.19
		1	74	13.24	13.23	13.18
		36	0	12.30	12.26	12.35
		36	20	12.24	12.24	12.39
		36	39	12.20	12.28	12.39
		75	0	12.24	12.27	12.42
	64QAM	1	0	12.25	12.25	12.44
		1	37	12.26	12.23	12.46
		1	74	12.29	12.25	12.43
		36	0	11.23	11.26	11.38
		36	20	11.27	11.22	11.41
		36	39	11.23	11.19	11.41
		75	0	11.27	11.20	11.39

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37850	38000	38150
20MHz	QPSK	1	0	14.17	14.24	14.17
		1	50	14.18	14.25	14.22
		1	99	14.15	14.20	14.21
		50	0	13.28	13.35	13.32
		50	25	13.23	13.37	13.36
		50	50	13.26	13.34	13.32
		100	0	13.22	13.31	13.28
	16QAM	1	0	13.18	13.35	13.29
		1	50	13.22	13.32	13.31
		1	99	13.27	13.34	13.29
		50	0	12.44	12.53	12.42
		50	25	12.49	12.55	12.45
		50	50	12.47	12.60	12.47
		100	0	12.48	12.65	12.46
	64QAM	1	0	12.52	12.64	12.46
		1	50	12.49	12.63	12.50
		1	99	12.53	12.63	12.49
		50	0	11.55	11.62	11.51
		50	25	11.50	11.66	11.55
		50	50	11.45	11.71	11.54
		100	0	11.50	11.70	11.56

LTE Band 41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40065	40640	41215
5MHz	QPSK	1	0	12.87	12.74	12.65
		1	13	12.88	12.77	12.67
		1	24	12.84	12.75	12.64
		12	0	11.85	11.94	11.85
		12	6	11.87	11.99	11.82
		12	13	11.88	11.96	11.85
		25	0	11.83	12.00	11.81
	16QAM	1	0	11.82	12.03	11.79
		1	13	11.80	12.07	11.82
		1	24	11.81	12.12	11.81
		12	0	10.91	11.27	10.81
		12	6	10.95	11.21	10.81
		12	13	10.91	11.22	10.84
		25	0	10.91	11.22	10.83
	64QAM	1	0	10.95	11.23	10.82
		1	13	10.99	11.27	10.84
		1	24	10.96	11.31	10.85
		12	0	9.95	10.28	9.84
		12	6	9.95	10.27	9.81
		12	13	9.99	10.30	9.81
		25	0	9.99	10.31	9.79

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40090	40640	41190
10MHz	QPSK	1	0	12.87	12.75	12.70
		1	25	12.88	12.79	12.74
		1	49	12.86	12.79	12.70
		25	0	11.92	11.86	11.82
		25	12	11.90	11.90	11.82
		25	25	11.89	11.93	11.79
		50	0	11.88	11.92	11.77
	16QAM	1	0	11.84	11.95	11.72
		1	25	11.89	11.93	11.69
		1	49	11.90	11.89	11.68
		25	0	11.14	11.06	10.68
		25	12	11.18	11.05	10.68
		25	25	11.14	11.06	10.64
		50	0	11.17	11.05	10.60
	64QAM	1	0	11.15	11.03	10.62
		1	25	11.17	11.06	10.66
		1	49	11.16	11.01	10.70
		25	0	10.07	9.97	9.60
		25	12	10.08	9.95	9.57
		25	25	10.13	9.95	9.60
		50	0	10.15	9.91	9.61

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40115	40640	41165
15MHz	QPSK	1	0	12.79	12.83	12.77
		1	37	12.83	12.83	12.78
		1	74	12.81	12.83	12.73
		36	0	12.02	12.05	11.77
		36	20	12.07	12.09	11.78
		36	39	12.03	12.05	11.81
		75	0	11.99	12.03	11.80
	16QAM	1	0	11.95	12.05	11.79
		1	37	11.93	12.02	11.75
		1	74	11.93	12.00	11.76
		36	0	11.10	11.03	10.93
		36	20	11.16	11.07	10.87
		36	39	11.19	11.08	10.83
		75	0	11.23	11.05	10.86
	64QAM	1	0	11.26	11.07	10.90
		1	37	11.29	11.09	10.92
		1	74	11.31	11.04	10.89
		36	0	10.23	10.02	9.80
		36	20	10.18	9.99	9.79
		36	39	10.22	10.00	9.82
		75	0	10.26	10.00	9.82

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40140	40640	41140
20MHz	QPSK	1	0	12.83	12.84	12.80
		1	50	12.85	12.86	12.82
		1	99	12.84	12.82	12.78
		50	0	12.01	11.97	11.98
		50	25	11.99	11.99	11.99
		50	50	11.95	12.04	12.02
		100	0	11.90	11.99	12.05
	16QAM	1	0	11.95	12.04	12.02
		1	50	11.96	12.02	11.98
		1	99	11.92	12.01	11.99
		50	0	10.95	11.08	11.24
		50	25	11.00	11.04	11.18
		50	50	11.00	11.06	11.19
		100	0	11.01	11.07	11.17
	64QAM	1	0	11.05	11.04	11.21
		1	50	11.07	11.03	11.20
		1	99	11.03	10.99	11.19
		50	0	10.02	9.91	10.13
		50	25	9.99	9.95	10.13
		50	50	9.96	10.00	10.11
		100	0	9.92	10.01	10.08

LTE Band 66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19207	19575	19943
1.4MHz	QPSK	1	0	16.81	16.98	16.98
		1	3	16.83	16.98	17.01
		1	5	16.79	16.96	16.99
		3	0	15.84	16.09	16.19
		3	1	15.88	16.14	16.19
		3	3	15.92	16.18	16.23
		6	0	15.92	16.20	16.20
	16QAM	1	0	15.90	16.16	16.16
		1	3	15.94	16.19	16.20
		1	5	15.92	16.19	16.20
		3	0	14.94	15.44	15.23
		3	1	14.91	15.41	15.18
		3	3	14.88	15.42	15.17
		6	0	14.86	15.38	15.15
	64QAM	1	0	14.89	15.34	15.12
		1	3	14.89	15.35	15.10
		1	5	14.90	15.32	15.12
		3	0	13.81	14.27	14.08
		3	1	13.83	14.23	14.09
		3	3	13.86	14.22	14.09
		6	0	13.85	14.19	14.10

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19215	19575	19935
3MHz	QPSK	1	0	16.88	17.00	16.97
		1	8	16.90	17.02	17.01
		1	14	16.86	17.00	16.99
		8	0	15.99	16.08	16.23
		8	4	15.97	16.12	16.24
		8	7	15.99	16.12	16.21
		15	0	16.00	16.14	16.24
	16QAM	1	0	16.01	16.14	16.27
		1	8	16.04	16.09	16.29
		1	14	16.01	16.13	16.31
		8	0	15.19	15.26	15.34
		8	4	15.25	15.30	15.30
		8	7	15.29	15.25	15.30
		15	0	15.26	15.21	15.29
	64QAM	1	0	15.22	15.20	15.24
		1	8	15.17	15.18	15.27
		1	14	15.21	15.20	15.28
		8	0	14.16	14.21	14.26
		8	4	14.17	14.23	14.28
		8	7	14.16	14.27	14.28
		15	0	14.15	14.27	14.25

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19225	19575	19925
5MHz	QPSK	1	0	16.89	16.96	16.96
		1	13	16.89	16.99	16.98
		1	24	16.84	16.94	16.96
		12	0	15.98	16.15	15.97
		12	6	16.03	16.14	15.94
		12	13	16.00	16.09	15.90
		25	0	16.03	16.13	15.86
	16QAM	1	0	16.04	16.09	15.81
		1	13	16.07	16.06	15.77
		1	24	16.10	16.10	15.78
		12	0	15.30	15.11	14.99
		12	6	15.29	15.06	15.04
		12	13	15.28	15.08	15.06
		25	0	15.24	15.13	15.03
	64QAM	1	0	15.20	15.12	14.99
		1	13	15.24	15.13	14.94
		1	24	15.24	15.08	14.90
		12	0	14.22	14.05	13.87
		12	6	14.26	14.05	13.88
		12	13	14.27	14.01	13.83
		25	0	14.25	14.01	13.79

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19250	19575	19900
10MHz	QPSK	1	0	16.87	16.98	16.97
		1	25	16.92	16.98	16.99
		1	49	16.91	16.98	16.95
		25	0	16.14	16.23	16.04
		25	12	16.12	16.27	16.03
		25	25	16.10	16.23	16.00
		50	0	16.08	16.19	16.01
	16QAM	1	0	16.03	16.24	16.00
		1	25	16.07	16.22	15.98
		1	49	16.03	16.25	15.98
		25	0	15.06	15.30	15.20
		25	12	14.99	15.25	15.22
		25	25	15.02	15.21	15.20
		50	0	14.99	15.17	15.23
	64QAM	1	0	15.02	15.21	15.24
		1	25	14.97	15.20	15.20
		1	49	14.96	15.21	15.15
		25	0	13.88	14.22	14.13
		25	12	13.89	14.19	14.13
		25	25	13.89	14.21	14.17
		50	0	13.90	14.23	14.17

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19275	19575	19875
15MHz	QPSK	1	0	16.93	16.95	16.95
		1	37	16.94	16.99	16.98
		1	74	16.89	16.94	16.98
		36	0	15.91	16.16	16.15
		36	20	15.94	16.14	16.17
		36	39	15.90	16.15	16.15
		75	0	15.92	16.12	16.15
	16QAM	1	0	15.89	16.13	16.12
		1	37	15.92	16.17	16.11
		1	74	15.92	16.16	16.07
		36	0	15.00	15.40	15.33
		36	20	14.98	15.35	15.27
		36	39	14.98	15.38	15.26
		75	0	14.98	15.40	15.22
	64QAM	1	0	15.02	15.45	15.26
		1	37	15.02	15.44	15.28
		1	74	15.03	15.45	15.28
		36	0	13.99	14.39	14.28
		36	20	13.98	14.41	14.30
		36	39	13.94	14.42	14.27
		75	0	13.97	14.46	14.29

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19300	19575	19850
20MHz	QPSK	1	0	17.00	17.03	16.99
		1	50	17.02	17.08	16.99
		1	99	16.97	17.04	16.97
		50	0	16.00	16.16	16.08
		50	25	15.99	16.13	16.12
		50	50	15.96	16.08	16.10
		100	0	15.92	16.07	16.10
	16QAM	1	0	15.95	16.06	16.06
		1	50	15.93	16.07	16.02
		1	99	15.92	16.10	15.99
		50	0	15.06	15.11	15.15
		50	25	15.09	15.08	15.10
		50	50	15.10	15.04	15.07
		100	0	15.07	15.03	15.10
	64QAM	1	0	15.08	15.02	15.07
		1	50	15.09	15.03	15.11
		1	99	15.11	15.03	15.13
		50	0	14.06	13.94	14.10
		50	25	14.10	13.99	14.06
		50	50	14.15	14.03	14.03
		100	0	14.11	13.99	14.04

Body Synchronous transmission power (ANT2)

Band: GSM850	Burst Average Power (dBm)			Frame Average Power (dBm)		
	128	190	251	128	190	251
Channel						
GSM (CS)	30.18	30.08	30.01	21.18	21.08	21.01
GPRS/EDGE (GMSK, 1 Tx slot)	30.20	30.11	29.99	21.20	21.11	20.99
GPRS/EDGE (GMSK, 2 Tx slots)	28.37	28.29	28.18	22.37	22.29	22.18
GPRS/EDGE (GMSK, 3 Tx slots)	26.93	26.80	26.63	22.67	22.54	22.37
GPRS/EDGE (GMSK, 4 Tx slots)	25.47	25.38	25.27	22.47	22.38	22.27
EDGE (8PSK, 1 Tx slot)	24.58	24.67	24.74	15.58	15.67	15.74
EDGE (8PSK, 2 Tx slots)	22.48	22.55	22.46	16.48	16.55	16.46
EDGE (8PSK, 3 Tx slots)	20.23	20.32	20.23	15.97	16.06	15.97
EDGE (8PSK, 4 Tx slots)	19.44	19.57	19.49	16.44	16.57	16.49

Band: DCS1900	Burst Average Power (dBm)			Frame Average Power (dBm)		
	Channel	513	661	810	513	661
GSM (CS)	25.80	26.04	26.26	16.80	17.04	17.26
GPRS/EDGE (GMSK, 1 Tx slot)	25.70	26.03	26.17	16.70	17.03	17.17
GPRS/EDGE (GMSK, 2 Tx slots)	23.67	24.00	24.15	17.67	18.00	18.15
GPRS/EDGE (GMSK, 3 Tx slots)	22.08	22.35	22.73	17.82	18.09	18.47
GPRS/EDGE (GMSK, 4 Tx slots)	20.64	21.00	21.13	17.64	18.00	18.13
EDGE (8PSK, 1 Tx slot)	22.38	22.40	22.63	13.38	13.40	13.63
EDGE (8PSK, 2 Tx slots)	19.49	19.47	19.76	13.49	13.47	13.76
EDGE (8PSK, 3 Tx slots)	17.19	17.29	17.58	12.93	13.03	13.32
EDGE (8PSK, 4 Tx slots)	16.49	16.53	16.84	13.49	13.53	13.84

UMTS Band II		Conducted Power (dBm)		
		9262	9400	9538
WCDMA	12.2kbps RMC	19.56	19.67	19.56
	64kbps RMC	19.34	19.58	19.53
	144kbps RMC	19.32	19.55	19.55
	384kbps RMC	19.30	19.59	19.52
HSDPA	Subtest 1	19.55	19.53	19.48
	Subtest 2	18.86	18.93	18.84
	Subtest 3	18.80	18.86	18.80
	Subtest 4	18.75	18.89	18.83
HSUPA	Subtest 1	17.71	17.25	17.20
	Subtest 2	17.30	17.30	17.33
	Subtest 3	18.15	18.41	18.30
	Subtest 4	16.68	16.87	16.75
	Subtest 5	18.09	18.13	18.13

UMTS Band IV		Conducted Power (dBm)		
		1312	1412	1513
WCDMA	12.2kbps RMC	19.41	19.32	19.33
	64kbps RMC	19.34	19.27	19.28
	144kbps RMC	19.36	19.19	19.33
	384kbps RMC	19.39	19.31	19.33
HSDPA	Subtest 1	19.38	19.28	19.27
	Subtest 2	18.76	18.57	18.69
	Subtest 3	18.62	18.70	18.56
	Subtest 4	18.70	18.44	18.57
HSUPA	Subtest 1	17.67	17.00	16.99
	Subtest 2	17.25	17.28	17.32
	Subtest 3	18.08	18.00	18.03
	Subtest 4	16.66	16.57	16.66
	Subtest 5	17.98	17.89	17.95

UMTS Band V		Conducted Power (dBm)		
		4133	4175	4232
WCDMA	12.2kbps RMC	21.89	21.97	21.94
	64kbps RMC	21.82	21.92	21.89
	144kbps RMC	21.84	21.84	21.94
	384kbps RMC	21.87	21.96	21.94
HSDPA	Subtest 1	21.87	21.92	21.86
	Subtest 2	21.10	21.29	21.25
	Subtest 3	21.14	21.13	21.20
	Subtest 4	21.11	21.10	21.16
HSUPA	Subtest 1	19.96	19.43	19.46
	Subtest 2	19.55	19.70	19.72
	Subtest 3	20.41	20.59	20.61
	Subtest 4	19.15	19.24	19.19
	Subtest 5	20.48	20.47	20.56

LTE Band 2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	17.49	17.58	17.38
		1	3	17.49	17.62	17.42
		1	5	17.49	17.59	17.38
		3	0	16.70	16.71	16.52
		3	1	16.65	16.71	16.56
		3	3	16.63	16.75	16.52
		6	0	16.67	16.70	16.56
	16QAM	1	0	16.67	16.66	16.54
		1	3	16.70	16.68	16.51
		1	5	16.67	16.66	16.46
		3	0	15.70	15.83	15.60
		3	1	15.70	15.86	15.58
		3	3	15.67	15.89	15.61
		6	0	15.69	15.89	15.58
	64QAM	1	0	15.73	15.87	15.53
		1	3	15.71	15.86	15.51
		1	5	15.69	15.86	15.48
		3	0	14.69	14.86	14.45
		3	1	14.65	14.82	14.47
		3	3	14.67	14.86	14.44
		6	0	14.63	14.91	14.42

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0	17.49	17.61	17.38
		1	8	17.51	17.61	17.42
		1	14	17.49	17.59	17.42
		8	0	16.73	16.84	16.65
		8	4	16.75	16.81	16.69
		8	7	16.78	16.83	16.65
		15	0	16.81	16.86	16.62
	16QAM	1	0	16.84	16.89	16.63
		1	8	16.86	16.86	16.65
		1	14	16.83	16.82	16.62
		8	0	15.86	15.95	15.76
		8	4	15.91	15.95	15.77
		8	7	15.92	15.97	15.73
		15	0	15.96	16.02	15.76
	64QAM	1	0	15.92	15.98	15.73
		1	8	15.89	15.96	15.69
		1	14	15.87	15.95	15.66
		8	0	14.78	14.85	14.56
		8	4	14.81	14.86	14.60
		8	7	14.84	14.90	14.63
		15	0	14.83	14.87	14.62

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	17.49	17.59	17.42
		1	13	17.52	17.62	17.46
		1	24	17.50	17.60	17.43
		12	0	16.66	16.79	16.53
		12	6	16.65	16.76	16.57
		12	13	16.62	16.76	16.53
		25	0	16.57	16.75	16.57
	16QAM	1	0	16.62	16.79	16.58
		1	13	16.67	16.76	16.56
		1	24	16.71	16.73	16.58
		12	0	15.78	15.91	15.60
		12	6	15.73	15.95	15.64
		12	13	15.76	15.99	15.67
		25	0	15.76	15.98	15.63
	64QAM	1	0	15.75	16.00	15.58
		1	13	15.76	15.99	15.56
		1	24	15.72	15.96	15.51
		12	0	14.62	14.90	14.49
		12	6	14.62	14.89	14.51
		12	13	14.65	14.89	14.53
		25	0	14.68	14.85	14.55

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	17.54	17.55	17.42
		1	25	17.56	17.58	17.45
		1	49	17.55	17.55	17.44
		25	0	16.76	16.72	16.47
		25	12	16.80	16.73	16.44
		25	25	16.85	16.73	16.48
		50	0	16.80	16.72	16.45
	16QAM	1	0	16.78	16.71	16.48
		1	25	16.80	16.73	16.47
		1	49	16.83	16.73	16.42
		25	0	15.91	15.93	15.66
		25	12	15.90	15.87	15.65
		25	25	15.95	15.83	15.67
		50	0	15.99	15.86	15.67
	64QAM	1	0	16.03	15.89	15.66
		1	25	15.99	15.89	15.64
		1	49	15.99	15.85	15.61
		25	0	14.95	14.78	14.57
		25	12	14.98	14.74	14.58
		25	25	14.99	14.74	14.57
		50	0	14.95	14.76	14.59

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	17.53	17.52	17.42
		1	37	17.57	17.53	17.43
		1	74	17.56	17.50	17.41
		36	0	16.68	16.59	16.41
		36	20	16.64	16.63	16.41
		36	39	16.69	16.64	16.40
		75	0	16.73	16.65	16.42
	16QAM	1	0	16.76	16.62	16.39
		1	37	16.79	16.65	16.36
		1	74	16.78	16.65	16.31
		36	0	15.92	15.90	15.50
		36	20	15.90	15.83	15.55
		36	39	15.91	15.86	15.55
		75	0	15.92	15.83	15.53
	64QAM	1	0	15.92	15.83	15.53
		1	37	15.94	15.82	15.56
		1	74	15.94	15.80	15.60
		36	0	14.87	14.70	14.50
		36	20	14.86	14.74	14.46
		36	39	14.82	14.74	14.50
		75	0	14.86	14.79	14.46

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	17.52	17.57	17.48
		1	50	17.56	17.57	17.51
		1	99	17.52	17.54	17.47
		50	0	16.66	16.70	16.47
		50	25	16.62	16.67	16.43
		50	50	16.61	16.65	16.42
		100	0	16.57	16.64	16.38
	16QAM	1	0	16.58	16.60	16.35
		1	50	16.55	16.65	16.36
		1	99	16.51	16.69	16.37
		50	0	15.54	15.87	15.57
		50	25	15.60	15.93	15.60
		50	50	15.56	15.90	15.62
		100	0	15.56	15.93	15.57
	64QAM	1	0	15.55	15.91	15.61
		1	50	15.54	15.86	15.66
		1	99	15.50	15.82	15.69
		50	0	14.44	14.85	14.70
		50	25	14.47	14.85	14.69
		50	50	14.51	14.83	14.72
		100	0	14.50	14.80	14.76

LTE Band 4

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	18.53	18.42	18.54
		1	3	18.56	18.44	18.56
		1	5	18.54	18.41	18.56
		3	0	17.67	17.46	17.65
		3	1	17.69	17.50	17.60
		3	3	17.68	17.53	17.56
		6	0	17.64	17.51	17.61
	16QAM	1	0	17.68	17.51	17.64
		1	3	17.71	17.51	17.64
		1	5	17.73	17.50	17.60
		3	0	16.89	16.68	16.71
		3	1	16.93	16.69	16.69
		3	3	16.95	16.71	16.65
		6	0	16.96	16.72	16.64
	64QAM	1	0	16.94	16.75	16.63
		1	3	16.97	16.72	16.62
		1	5	16.97	16.75	16.59
		3	0	15.90	15.68	15.61
		3	1	15.89	15.70	15.58
		3	3	15.87	15.73	15.55
		6	0	15.88	15.75	15.52

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19965	20175	20385
3MHz	QPSK	1	0	18.56	18.48	18.58
		1	8	18.59	18.50	18.59
		1	14	18.58	18.48	18.58
		8	0	17.73	17.70	17.77
		8	4	17.73	17.67	17.81
		8	7	17.77	17.67	17.77
		15	0	17.75	17.69	17.79
	16QAM	1	0	17.71	17.72	17.81
		1	8	17.73	17.70	17.84
		1	14	17.72	17.70	17.87
		8	0	16.78	16.80	17.13
		8	4	16.72	16.84	17.13
		8	7	16.72	16.89	17.17
		15	0	16.77	16.88	17.20
	64QAM	1	0	16.76	16.93	17.24
		1	8	16.72	16.89	17.20
		1	14	16.71	16.85	17.23
		8	0	15.62	15.85	16.24
		8	4	15.66	15.88	16.21
		8	7	15.62	15.85	16.25
		15	0	15.63	15.90	16.29

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0	18.60	18.54	18.56
		1	13	18.63	18.54	18.58
		1	24	18.59	18.54	18.57
		12	0	17.59	17.74	17.78
		12	6	17.55	17.75	17.73
		12	13	17.56	17.73	17.74
		25	0	17.59	17.69	17.78
	16QAM	1	0	17.58	17.70	17.82
		1	13	17.61	17.71	17.86
		1	24	17.61	17.74	17.89
		12	0	16.79	16.92	17.05
		12	6	16.80	16.93	17.08
		12	13	16.78	16.92	17.09
		25	0	16.75	16.92	17.09
	64QAM	1	0	16.71	16.92	17.07
		1	13	16.69	16.91	17.03
		1	24	16.67	16.93	17.04
		12	0	15.65	15.95	15.99
		12	6	15.62	15.98	16.02
		12	13	15.64	16.02	16.00
		25	0	15.68	16.02	15.97

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0	18.61	18.56	18.57
		1	25	18.61	18.57	18.59
		1	49	18.60	18.53	18.56
		25	0	17.72	17.59	17.72
		25	12	17.70	17.63	17.69
		25	25	17.68	17.65	17.71
		50	0	17.68	17.69	17.71
	16QAM	1	0	17.67	17.72	17.67
		1	25	17.72	17.74	17.68
		1	49	17.68	17.71	17.67
		25	0	16.80	16.91	16.78
		25	12	16.84	16.89	16.80
		25	25	16.89	16.89	16.76
		50	0	16.90	16.86	16.81
	64QAM	1	0	16.91	16.84	16.77
		1	25	16.92	16.82	16.77
		1	49	16.93	16.87	16.78
		25	0	15.85	15.83	15.72
		25	12	15.84	15.87	15.73
		25	25	15.80	15.90	15.74
		50	0	15.83	15.92	15.76

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	18.58	18.59	18.61
		1	37	18.63	18.62	18.64
		1	74	18.62	18.58	18.62
		36	0	17.85	17.62	17.79
		36	20	17.81	17.61	17.83
		36	39	17.80	17.56	17.79
		75	0	17.84	17.52	17.83
	16QAM	1	0	17.82	17.54	17.82
		1	37	17.80	17.53	17.80
		1	74	17.80	17.49	17.78
		36	0	16.99	16.74	16.94
		36	20	17.00	16.73	16.94
		36	39	16.99	16.78	16.97
		75	0	16.97	16.79	16.98
	64QAM	1	0	16.99	16.83	17.00
		1	37	16.95	16.83	16.98
		1	74	16.99	16.83	16.97
		36	0	15.96	15.78	15.93
		36	20	15.96	15.74	15.92
		36	39	15.97	15.70	15.95
		75	0	16.01	15.73	15.95

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	18.63	18.66	18.60
		1	50	18.63	18.67	18.64
		1	99	18.62	18.65	18.62
		50	0	17.82	17.81	17.63
		50	25	17.81	17.82	17.60
		50	50	17.85	17.85	17.57
		100	0	17.82	17.89	17.55
	16QAM	1	0	17.86	17.86	17.53
		1	50	17.84	17.84	17.55
		1	99	17.82	17.82	17.57
		50	0	16.90	17.03	16.69
		50	25	16.90	17.07	16.70
		50	50	16.93	17.05	16.65
		100	0	16.92	17.04	16.64
	64QAM	1	0	16.97	17.02	16.66
		1	50	16.95	17.05	16.67
		1	99	16.94	17.09	16.62
		50	0	15.86	16.11	15.64
		50	25	15.84	16.12	15.68
		50	50	15.87	16.07	15.67
		100	0	15.84	16.06	15.65

LTE Band 5

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	21.22	21.35	21.36
		1	3	21.23	21.39	21.39
		1	5	21.23	21.37	21.39
		3	0	20.31	20.45	20.54
		3	1	20.29	20.49	20.50
		3	3	20.32	20.48	20.46
		6	0	20.34	20.53	20.47
	16QAM	1	0	20.30	20.50	20.46
		1	3	20.33	20.46	20.45
		1	5	20.36	20.50	20.42
		3	0	19.42	19.66	19.45
		3	1	19.38	19.60	19.49
		3	3	19.38	19.56	19.50
		6	0	19.35	19.56	19.55
	64QAM	1	0	19.38	19.52	19.58
		1	3	19.41	19.54	19.59
		1	5	19.36	19.59	19.63
		3	0	18.33	18.56	18.54
		3	1	18.29	18.59	18.50
		3	3	18.33	18.56	18.46
		6	0	18.33	18.58	18.51

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0	21.26	21.38	21.37
		1	8	21.29	21.38	21.40
		1	14	21.25	21.37	21.37
		8	0	20.25	20.37	20.53
		8	4	20.21	20.41	20.58
		8	7	20.25	20.39	20.56
		15	0	20.22	20.42	20.54
	16QAM	1	0	20.20	20.42	20.51
		1	8	20.19	20.43	20.53
		1	14	20.24	20.47	20.51
		8	0	19.31	19.53	19.75
		8	4	19.31	19.54	19.72
		8	7	19.32	19.51	19.68
		15	0	19.34	19.51	19.65
	64QAM	1	0	19.38	19.47	19.65
		1	8	19.41	19.42	19.69
		1	14	19.43	19.38	19.65
		8	0	18.38	18.39	18.67
		8	4	18.39	18.38	18.68
		8	7	18.41	18.34	18.66
		15	0	18.41	18.36	18.63

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0	21.32	21.32	21.32
		1	13	21.32	21.34	21.37
		1	24	21.31	21.33	21.35
		12	0	20.34	20.50	20.43
		12	6	20.33	20.45	20.47
		12	13	20.38	20.43	20.43
		25	0	20.35	20.40	20.42
	16QAM	1	0	20.33	20.37	20.47
		1	13	20.36	20.36	20.46
		1	24	20.37	20.40	20.43
		12	0	19.43	19.50	19.59
		12	6	19.42	19.48	19.55
		12	13	19.45	19.43	19.53
		25	0	19.46	19.40	19.55
	64QAM	1	0	19.47	19.38	19.53
		1	13	19.42	19.36	19.49
		1	24	19.43	19.34	19.49
		12	0	18.43	18.31	18.43
		12	6	18.46	18.33	18.45
		12	13	18.50	18.33	18.48
		25	0	18.48	18.31	18.44

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0	21.31	21.35	21.34
		1	25	21.33	21.36	21.35
		1	49	21.32	21.32	21.35
		25	0	20.45	20.43	20.44
		25	12	20.43	20.43	20.43
		25	25	20.48	20.47	20.47
		50	0	20.45	20.49	20.47
	16QAM	1	0	20.48	20.52	20.51
		1	25	20.50	20.50	20.49
		1	49	20.54	20.55	20.48
		25	0	19.72	19.75	19.57
		25	12	19.66	19.69	19.56
		25	25	19.64	19.71	19.53
		50	0	19.67	19.69	19.51
	64QAM	1	0	19.67	19.68	19.47
		1	25	19.66	19.70	19.50
		1	49	19.68	19.73	19.50
		25	0	18.61	18.71	18.45
		25	12	18.63	18.71	18.45
		25	25	18.63	18.73	18.40
		50	0	18.60	18.76	18.36

LTE Band 7

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	13.25	13.17	13.14
		1	13	13.26	13.21	13.17
		1	24	13.22	13.16	13.13
		12	0	12.45	12.23	12.16
		12	6	12.44	12.25	12.15
		12	13	12.44	12.25	12.12
		25	0	12.48	12.22	12.12
	16QAM	1	0	12.44	12.25	12.09
		1	13	12.40	12.20	12.07
		1	24	12.42	12.21	12.07
		12	0	11.62	11.30	11.26
		12	6	11.66	11.28	11.21
		12	13	11.70	11.24	11.22
		25	0	11.74	11.24	11.24
	64QAM	1	0	11.78	11.25	11.28
		1	13	11.77	11.27	11.32
		1	24	11.73	11.24	11.34
		12	0	10.64	10.20	10.32
		12	6	10.62	10.24	10.31
		12	13	10.59	10.20	10.29
		25	0	10.60	10.23	10.27

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0	13.22	13.26	13.23
		1	25	13.23	13.27	13.24
		1	49	13.22	13.22	13.21
		25	0	12.31	12.36	12.22
		25	12	12.27	12.38	12.17
		25	25	12.26	12.39	12.20
		50	0	12.26	12.37	12.20
	16QAM	1	0	12.22	12.37	12.23
		1	25	12.26	12.40	12.21
		1	49	12.26	12.35	12.23
		25	0	11.26	11.45	11.40
		25	12	11.25	11.46	11.36
		25	25	11.27	11.45	11.40
		50	0	11.25	11.48	11.40
	64QAM	1	0	11.28	11.45	11.40
		1	25	11.24	11.40	11.36
		1	49	11.29	11.39	11.32
		25	0	10.20	10.42	10.33
		25	12	10.23	10.44	10.35
		25	25	10.26	10.40	10.35
		50	0	10.30	10.36	10.34

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0	13.19	13.22	13.20
		1	37	13.23	13.26	13.23
		1	74	13.22	13.26	13.20
		36	0	12.28	12.32	12.43
		36	20	12.30	12.37	12.46
		36	39	12.34	12.35	12.49
		75	0	12.31	12.35	12.48
	16QAM	1	0	12.32	12.30	12.44
		1	37	12.33	12.31	12.41
		1	74	12.37	12.30	12.42
		36	0	11.41	11.48	11.62
		36	20	11.34	11.53	11.61
		36	39	11.38	11.56	11.66
		75	0	11.42	11.54	11.67
	64QAM	1	0	11.39	11.55	11.65
		1	37	11.41	11.53	11.68
		1	74	11.42	11.53	11.72
		36	0	10.43	10.54	10.73
		36	20	10.46	10.53	10.76
		36	39	10.46	10.56	10.73
		75	0	10.46	10.60	10.75

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0	13.19	13.26	13.20
		1	50	13.22	13.26	13.23
		1	99	13.21	13.25	13.20
		50	0	12.41	12.25	12.27
		50	25	12.46	12.26	12.24
		50	50	12.42	12.30	12.21
		100	0	12.43	12.29	12.24
	16QAM	1	0	12.47	12.25	12.28
		1	50	12.45	12.25	12.23
		1	99	12.49	12.20	12.19
		50	0	11.64	11.41	11.42
		50	25	11.61	11.42	11.36
		50	50	11.60	11.46	11.31
		100	0	11.60	11.50	11.30
	64QAM	1	0	11.63	11.51	11.32
		1	50	11.63	11.52	11.28
		1	99	11.66	11.49	11.26
		50	0	10.59	10.50	10.28
		50	25	10.59	10.45	10.29
		50	50	10.55	10.45	10.31
		100	0	10.53	10.49	10.28

LTE Band 38

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37775	38000	38225
5MHz	QPSK	1	0	16.64	16.63	16.51
		1	13	16.68	16.63	16.51
		1	24	16.65	16.61	16.47
		12	0	15.72	15.81	15.66
		12	6	15.72	15.80	15.64
		12	13	15.74	15.75	15.60
		25	0	15.73	15.73	15.62
	16QAM	1	0	15.77	15.75	15.61
		1	13	15.79	15.76	15.57
		1	24	15.82	15.81	15.55
		12	0	14.84	15.04	14.81
		12	6	14.85	14.99	14.77
		12	13	14.81	14.99	14.75
		25	0	14.84	14.97	14.79
	64QAM	1	0	14.87	15.00	14.77
		1	13	14.91	15.01	14.72
		1	24	14.93	15.04	14.76
		12	0	13.95	14.06	13.71
		12	6	13.96	14.04	13.73
		12	13	13.98	14.08	13.71
		25	0	13.97	14.05	13.70

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37800	38000	38200
10MHz	QPSK	1	0	16.66	16.63	16.53
		1	25	16.67	16.67	16.57
		1	49	16.67	16.64	16.53
		25	0	15.82	15.77	15.57
		25	12	15.84	15.74	15.54
		25	25	15.86	15.75	15.53
		50	0	15.90	15.71	15.52
	16QAM	1	0	15.89	15.69	15.51
		1	25	15.84	15.73	15.48
		1	49	15.86	15.69	15.45
		25	0	15.05	14.70	14.66
		25	12	15.09	14.74	14.61
		25	25	15.08	14.78	14.64
		50	0	15.11	14.81	14.64
	64QAM	1	0	15.11	14.79	14.61
		1	25	15.07	14.78	14.62
		1	49	15.10	14.75	14.65
		25	0	14.04	13.74	13.61
		25	12	14.00	13.75	13.64
		25	25	13.96	13.71	13.63
		50	0	13.97	13.70	13.65

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37825	38000	38175
15MHz	QPSK	1	0	16.59	16.62	16.51
		1	37	16.63	16.62	16.56
		1	74	16.62	16.62	16.51
		36	0	15.74	15.82	15.61
		36	20	15.70	15.83	15.57
		36	39	15.74	15.86	15.55
		75	0	15.71	15.86	15.57
	16QAM	1	0	15.68	15.88	15.56
		1	37	15.72	15.92	15.60
		1	74	15.75	15.90	15.60
		36	0	14.96	14.98	14.76
		36	20	14.93	15.03	14.71
		36	39	14.91	15.05	14.74
		75	0	14.94	15.01	14.73
	64QAM	1	0	14.95	15.03	14.72
		1	37	14.99	15.07	14.73
		1	74	14.98	15.06	14.73
		36	0	13.99	14.08	13.64
		36	20	14.02	14.04	13.68
		36	39	14.02	14.00	13.69
		75	0	14.07	14.04	13.69

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37850	38000	38150
20MHz	QPSK	1	0	16.60	16.62	16.53
		1	50	16.65	16.65	16.57
		1	99	16.64	16.64	16.53
		50	0	15.72	15.78	15.56
		50	25	15.67	15.83	15.52
		50	50	15.64	15.86	15.55
		100	0	15.61	15.90	15.51
	16QAM	1	0	15.58	15.94	15.51
		1	50	15.61	15.91	15.55
		1	99	15.64	15.90	15.60
		50	0	14.89	15.13	14.64
		50	25	14.85	15.12	14.66
		50	50	14.86	15.12	14.70
		100	0	14.87	15.15	14.72
	64QAM	1	0	14.86	15.11	14.71
		1	50	14.82	15.07	14.75
		1	99	14.80	15.04	14.76
		50	0	13.72	14.06	13.69
		50	25	13.71	14.06	13.74
		50	50	13.66	14.02	13.75
		100	0	13.68	14.02	13.74

LTE Band 41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40065	40640	41215
5MHz	QPSK	1	0	14.65	14.78	14.71
		1	13	14.66	14.80	14.73
		1	24	14.62	14.76	14.73
		12	0	13.80	13.82	13.90
		12	6	13.77	13.87	13.93
		12	13	13.76	13.88	13.89
		25	0	13.75	13.93	13.87
	16QAM	1	0	13.78	13.89	13.89
		1	13	13.81	13.89	13.92
		1	24	13.81	13.84	13.90
		12	0	13.01	12.97	12.96
		12	6	13.01	12.95	12.98
		12	13	13.00	12.96	13.03
		25	0	13.04	12.92	13.08
	64QAM	1	0	13.05	12.87	13.04
		1	13	13.00	12.90	13.07
		1	24	13.01	12.85	13.11
		12	0	11.94	11.77	12.07
		12	6	11.93	11.78	12.08
		12	13	11.90	11.76	12.09
		25	0	11.94	11.72	12.13

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40090	40640	41190
10MHz	QPSK	1	0	14.69	14.77	14.78
		1	25	14.72	14.81	14.81
		1	49	14.71	14.76	14.77
		25	0	13.76	13.85	14.02
		25	12	13.76	13.83	14.00
		25	25	13.75	13.80	13.95
		50	0	13.75	13.81	13.96
	16QAM	1	0	13.70	13.84	14.01
		1	25	13.74	13.81	14.05
		1	49	13.78	13.81	14.07
		25	0	12.89	12.93	13.33
		25	12	12.82	12.86	13.26
		25	25	12.78	12.91	13.28
		50	0	12.77	12.86	13.26
	64QAM	1	0	12.73	12.82	13.31
		1	25	12.76	12.80	13.31
		1	49	12.80	12.84	13.29
		25	0	11.80	11.83	12.20
		25	12	11.84	11.85	12.20
		25	25	11.87	11.84	12.21
		50	0	11.82	11.83	12.25

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40115	40640	41165
15MHz	QPSK	1	0	14.69	14.79	14.76
		1	37	14.72	14.81	14.77
		1	74	14.71	14.79	14.76
		36	0	13.76	13.81	13.85
		36	20	13.78	13.79	13.84
		36	39	13.80	13.82	13.89
		75	0	13.77	13.78	13.91
	16QAM	1	0	13.80	13.80	13.87
		1	37	13.80	13.80	13.89
		1	74	13.82	13.83	13.90
		36	0	12.96	12.91	12.91
		36	20	12.99	12.92	12.88
		36	39	12.96	12.94	12.85
		75	0	12.91	12.91	12.88
	64QAM	1	0	12.86	12.89	12.90
		1	37	12.86	12.88	12.93
		1	74	12.90	12.89	12.96
		36	0	11.88	11.89	11.92
		36	20	11.92	11.88	11.87
		36	39	11.92	11.91	11.90
		75	0	11.90	11.89	11.88

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40140	40640	41140
20MHz	QPSK	1	0	14.75	14.81	14.77
		1	50	14.77	14.83	14.79
		1	99	14.74	14.78	14.79
		50	0	13.96	14.02	13.91
		50	25	13.94	14.05	13.89
		50	50	13.95	14.06	13.94
		100	0	13.93	14.11	13.98
	16QAM	1	0	13.97	14.15	14.01
		1	50	13.98	14.14	14.03
		1	99	14.02	14.15	14.07
		50	0	13.04	13.23	13.21
		50	25	13.07	13.18	13.15
		50	50	13.05	13.21	13.11
		100	0	13.04	13.22	13.11
	64QAM	1	0	13.07	13.24	13.11
		1	50	13.03	13.20	13.07
		1	99	13.01	13.18	13.10
		50	0	11.92	12.14	12.08
		50	25	11.91	12.12	12.10
		50	50	11.88	12.08	12.09
		100	0	11.88	12.12	12.11

LTE Band 66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19207	19575	19943
1.4MHz	QPSK	1	0	18.95	18.89	18.91
		1	3	18.96	18.94	18.96
		1	5	18.96	18.93	18.95
		3	0	18.01	18.12	18.17
		3	1	17.97	18.15	18.18
		3	3	17.95	18.16	18.14
		6	0	17.98	18.12	18.16
	16QAM	1	0	17.97	18.13	18.15
		1	3	17.97	18.13	18.12
		1	5	17.95	18.18	18.15
		3	0	16.96	17.25	17.39
		3	1	16.92	17.31	17.34
		3	3	16.89	17.27	17.30
		6	0	16.84	17.31	17.31
	64QAM	1	0	16.81	17.35	17.33
		1	3	16.78	17.33	17.31
		1	5	16.74	17.31	17.34
		3	0	15.70	16.21	16.33
		3	1	15.70	16.17	16.32
		3	3	15.71	16.18	16.28
		6	0	15.67	16.14	16.31

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19215	19575	19935
3MHz	QPSK	1	0	18.96	18.90	18.99
		1	8	18.98	18.95	19.03
		1	14	18.93	18.94	19.01
		8	0	17.99	17.99	18.19
		8	4	17.96	18.02	18.21
		8	7	17.99	17.98	18.21
		15	0	17.95	17.96	18.24
	16QAM	1	0	17.92	17.96	18.24
		1	8	17.96	17.97	18.20
		1	14	18.00	17.99	18.24
		8	0	17.17	17.25	17.36
		8	4	17.11	17.29	17.41
		8	7	17.09	17.28	17.45
		15	0	17.07	17.26	17.42
	64QAM	1	0	17.02	17.24	17.42
		1	8	16.99	17.28	17.46
		1	14	17.00	17.24	17.48
		8	0	16.01	16.16	16.43
		8	4	15.97	16.19	16.40
		8	7	15.98	16.17	16.35
		15	0	15.95	16.20	16.38

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19225	19575	19925
5MHz	QPSK	1	0	19.00	18.94	18.99
		1	13	19.01	18.95	19.00
		1	24	19.01	18.94	18.98
		12	0	18.07	18.16	18.23
		12	6	18.09	18.12	18.26
		12	13	18.12	18.13	18.25
		25	0	18.15	18.16	18.28
	16QAM	1	0	18.17	18.14	18.30
		1	13	18.14	18.10	18.28
		1	24	18.11	18.13	18.24
		12	0	17.32	17.33	17.47
		12	6	17.32	17.30	17.52
		12	13	17.32	17.25	17.48
		25	0	17.34	17.27	17.46
	64QAM	1	0	17.39	17.22	17.47
		1	13	17.41	17.20	17.45
		1	24	17.45	17.18	17.44
		12	0	16.36	16.19	16.44
		12	6	16.38	16.23	16.48
		12	13	16.39	16.20	16.44
		25	0	16.36	16.24	16.44

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19250	19575	19900
10MHz	QPSK	1	0	18.99	18.96	18.92
		1	25	19.00	18.97	18.95
		1	49	18.99	18.93	18.94
		25	0	18.02	18.05	18.11
		25	12	17.99	18.06	18.07
		25	25	18.01	18.02	18.09
		50	0	17.97	18.05	18.13
	16QAM	1	0	18.00	18.04	18.17
		1	25	17.95	18.01	18.18
		1	49	18.00	18.05	18.19
		25	0	17.23	17.07	17.37
		25	12	17.22	17.04	17.41
		25	25	17.22	17.08	17.36
		50	0	17.26	17.11	17.37
	64QAM	1	0	17.29	17.07	17.33
		1	25	17.30	17.03	17.37
		1	49	17.33	17.05	17.38
		25	0	16.28	15.96	16.31
		25	12	16.30	16.00	16.27
		25	25	16.25	16.01	16.24
		50	0	16.28	16.04	16.29

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19275	19575	19875
15MHz	QPSK	1	0	18.97	19.00	18.97
		1	37	19.01	19.01	18.99
		1	74	18.99	18.99	18.96
		36	0	18.14	18.12	18.12
		36	20	18.16	18.14	18.14
		36	39	18.13	18.15	18.17
		75	0	18.14	18.16	18.14
	16QAM	1	0	18.12	18.17	18.16
		1	37	18.16	18.17	18.14
		1	74	18.16	18.21	18.12
		36	0	17.22	17.35	17.29
		36	20	17.21	17.28	17.33
		36	39	17.25	17.28	17.35
		75	0	17.30	17.33	17.38
	64QAM	1	0	17.27	17.31	17.34
		1	37	17.27	17.27	17.37
		1	74	17.31	17.27	17.39
		36	0	16.22	16.23	16.35
		36	20	16.22	16.20	16.32
		36	39	16.26	16.20	16.28
		75	0	16.29	16.24	16.26

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19300	19575	19850
20MHz	QPSK	1	0	19.05	19.09	19.05
		1	50	19.06	19.10	19.06
		1	99	19.03	19.05	19.03
		50	0	18.15	18.19	18.28
		50	25	18.17	18.19	18.30
		50	50	18.16	18.14	18.25
		100	0	18.16	18.12	18.24
	16QAM	1	0	18.21	18.08	18.21
		1	50	18.21	18.08	18.22
		1	99	18.22	18.04	18.22
		50	0	17.30	17.05	17.37
		50	25	17.35	16.99	17.39
		50	50	17.33	16.94	17.37
		100	0	17.33	16.98	17.42
	64QAM	1	0	17.29	16.99	17.47
		1	50	17.27	16.94	17.43
		1	99	17.31	16.90	17.40
		50	0	16.33	15.80	16.35
		50	25	16.30	15.75	16.36
		50	50	16.29	15.80	16.32
		100	0	16.29	15.80	16.32

Body Synchronous transmission power (ANT 3)

Band: GSM850	Burst Average Power (dBm)			Frame Average Power (dBm)		
	128	190	251	128	190	251
Channel						
GSM (CS)	31.06	31.19	31.14	22.06	22.19	22.14
GPRS/EDGE (GMSK, 1 Tx slot)	31.13	31.08	31.16	22.13	22.08	22.16
GPRS/EDGE (GMSK, 2 Tx slots)	29.31	29.29	29.31	23.31	23.29	23.31
GPRS/EDGE (GMSK, 3 Tx slots)	27.71	27.80	27.72	23.45	23.54	23.46
GPRS/EDGE (GMSK, 4 Tx slots)	26.28	26.39	26.32	23.28	23.39	23.32
EDGE (8PSK, 1 Tx slot)	25.39	25.65	25.65	16.39	16.65	16.65
EDGE (8PSK, 2 Tx slots)	23.22	23.50	23.49	17.22	17.50	17.49
EDGE (8PSK, 3 Tx slots)	20.99	21.26	21.21	16.73	17.00	16.95
EDGE (8PSK, 4 Tx slots)	20.31	20.57	20.54	17.31	17.57	17.54

Band: DCS1900	Burst Average Power (dBm)			Frame Average Power (dBm)		
	Channel	513	661	810	513	661
GSM (CS)	26.59	26.80	26.97	17.59	17.80	17.97
GPRS/EDGE (GMSK, 1 Tx slot)	26.56	26.77	26.93	17.56	17.77	17.93
GPRS/EDGE (GMSK, 2 Tx slots)	24.60	24.71	24.94	18.60	18.71	18.94
GPRS/EDGE (GMSK, 3 Tx slots)	22.98	23.09	23.38	18.72	18.83	19.12
GPRS/EDGE (GMSK, 4 Tx slots)	21.52	21.73	21.96	18.52	18.73	18.96
EDGE (8PSK, 1 Tx slot)	23.29	23.31	23.42	14.29	14.31	14.42
EDGE (8PSK, 2 Tx slots)	20.46	20.46	20.63	14.46	14.46	14.63
EDGE (8PSK, 3 Tx slots)	18.21	18.19	18.40	13.95	13.93	14.14
EDGE (8PSK, 4 Tx slots)	17.50	17.55	17.70	14.50	14.55	14.70

UMTS Band II		Conducted Power (dBm)		
		9262	9400	9538
WCDMA	12.2kbps RMC	20.51	20.60	20.51
	64kbps RMC	20.30	20.52	20.48
	144kbps RMC	20.27	20.48	20.50
	384kbps RMC	20.25	20.52	20.47
HSDPA	Subtest 1	20.47	20.52	20.48
	Subtest 2	19.65	19.92	19.86
	Subtest 3	19.70	19.79	19.69
	Subtest 4	19.71	19.85	19.81
HSUPA	Subtest 1	20.03	20.22	20.15
	Subtest 2	18.20	18.31	18.18
	Subtest 3	19.56	19.83	19.80
	Subtest 4	17.61	17.84	17.76
	Subtest 5	18.97	19.17	19.08

UMTS Band IV		Conducted Power (dBm)		
		1312	1412	1513
WCDMA	12.2kbps RMC	19.37	19.19	19.28
	64kbps RMC	19.30	19.14	19.23
	144kbps RMC	19.32	19.06	19.28
	384kbps RMC	19.35	19.18	19.28
HSDPA	Subtest 1	19.31	19.16	19.22
	Subtest 2	18.67	18.55	18.53
	Subtest 3	18.71	18.54	18.45
	Subtest 4	18.62	18.49	18.51
HSUPA	Subtest 1	18.91	18.84	18.87
	Subtest 2	17.14	17.00	17.09
	Subtest 3	18.51	18.47	18.44
	Subtest 4	16.65	16.48	16.60
	Subtest 5	17.86	17.83	17.95

UMTS Band V		Conducted Power (dBm)		
		4133	4175	4232
WCDMA	12.2kbps RMC	21.64	21.72	21.80
	64kbps RMC	21.57	21.67	21.75
	144kbps RMC	21.59	21.59	21.80
	384kbps RMC	21.63	21.71	21.80
HSDPA	Subtest 1	21.54	21.63	21.75
	Subtest 2	21.09	21.13	21.16
	Subtest 3	20.98	21.05	21.03
	Subtest 4	20.92	21.01	20.98
HSUPA	Subtest 1	19.82	19.32	19.34
	Subtest 2	19.44	19.54	19.51
	Subtest 3	20.35	20.34	20.33
	Subtest 4	18.86	19.02	19.04
	Subtest 5	20.21	20.38	20.29

LTE Band 2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	19.19	19.17	19.13
		1	3	19.21	19.19	19.14
		1	5	19.21	19.17	19.14
		3	0	18.27	18.32	18.35
		3	1	18.26	18.35	18.30
		3	3	18.29	18.37	18.29
		6	0	18.27	18.38	18.25
	16QAM	1	0	18.29	18.41	18.22
		1	3	18.27	18.41	18.17
		1	5	18.26	18.43	18.14
		3	0	17.42	17.52	17.36
		3	1	17.42	17.45	17.38
		3	3	17.43	17.47	17.40
		6	0	17.43	17.48	17.36
	64QAM	1	0	17.48	17.44	17.39
		1	3	17.52	17.41	17.42
		1	5	17.54	17.43	17.37
		3	0	16.47	16.37	16.38
		3	1	16.45	16.32	16.40
		3	3	16.44	16.31	16.40
		6	0	16.48	16.34	16.41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0	19.20	19.20	19.15
		1	8	19.25	19.21	19.19
		1	14	19.24	19.16	19.14
		8	0	18.33	18.31	18.33
		8	4	18.32	18.34	18.36
		8	7	18.32	18.39	18.37
		15	0	18.36	18.34	18.35
	16QAM	1	0	18.38	18.37	18.37
		1	8	18.36	18.39	18.36
		1	14	18.37	18.38	18.41
		8	0	17.61	17.57	17.44
		8	4	17.56	17.60	17.48
		8	7	17.54	17.56	17.51
		15	0	17.56	17.61	17.49
	64QAM	1	0	17.60	17.63	17.48
		1	8	17.58	17.58	17.49
		1	14	17.56	17.57	17.45
		8	0	16.57	16.52	16.38
		8	4	16.55	16.56	16.40
		8	7	16.55	16.56	16.38
		15	0	16.51	16.55	16.38

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	19.21	19.17	19.18
		1	13	19.26	19.20	19.22
		1	24	19.23	19.20	19.18
		12	0	18.25	18.25	18.40
		12	6	18.23	18.26	18.44
		12	13	18.23	18.30	18.44
		25	0	18.27	18.27	18.47
	16QAM	1	0	18.24	18.31	18.52
		1	13	18.25	18.34	18.49
		1	24	18.29	18.33	18.51
		12	0	17.34	17.39	17.59
		12	6	17.39	17.40	17.59
		12	13	17.34	17.38	17.58
		25	0	17.35	17.43	17.60
	64QAM	1	0	17.34	17.46	17.63
		1	13	17.38	17.41	17.64
		1	24	17.42	17.45	17.69
		12	0	16.43	16.42	16.69
		12	6	16.43	16.46	16.68
		12	13	16.47	16.46	16.70
		25	0	16.47	16.48	16.70

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	19.18	19.21	19.27
		1	25	19.22	19.23	19.27
		1	49	19.20	19.21	19.25
		25	0	18.43	18.40	18.27
		25	12	18.43	18.35	18.26
		25	25	18.44	18.33	18.26
		50	0	18.48	18.29	18.23
	16QAM	1	0	18.50	18.27	18.19
		1	25	18.45	18.30	18.16
		1	49	18.44	18.33	18.12
		25	0	17.59	17.36	17.21
		25	12	17.61	17.39	17.22
		25	25	17.66	17.39	17.22
		50	0	17.66	17.34	17.22
	64QAM	1	0	17.61	17.39	17.17
		1	25	17.64	17.35	17.16
		1	49	17.68	17.32	17.12
		25	0	16.68	16.24	16.14
		25	12	16.65	16.23	16.18
		25	25	16.68	16.18	16.19
		50	0	16.66	16.20	16.17

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	19.15	19.25	19.22
		1	37	19.17	19.27	19.24
		1	74	19.16	19.27	19.23
		36	0	18.29	18.41	18.25
		36	20	18.25	18.43	18.26
		36	39	18.27	18.46	18.30
		75	0	18.32	18.47	18.32
	16QAM	1	0	18.36	18.47	18.35
		1	37	18.36	18.50	18.39
		1	74	18.38	18.52	18.34
		36	0	17.43	17.61	17.55
		36	20	17.48	17.58	17.55
		36	39	17.44	17.61	17.59
		75	0	17.47	17.58	17.63
	64QAM	1	0	17.43	17.56	17.61
		1	37	17.45	17.57	17.64
		1	74	17.45	17.62	17.64
		36	0	16.42	16.52	16.57
		36	20	16.38	16.57	16.55
		36	39	16.40	16.61	16.55
		75	0	16.37	16.57	16.58

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	19.23	19.28	19.23
		1	50	19.27	19.32	19.24
		1	99	19.22	19.32	19.21
		50	0	18.32	18.34	18.37
		50	25	18.31	18.30	18.38
		50	50	18.30	18.35	18.38
		100	0	18.32	18.34	18.37
	16QAM	1	0	18.30	18.34	18.37
		1	50	18.27	18.35	18.42
		1	99	18.31	18.35	18.41
		50	0	17.54	17.55	17.46
		50	25	17.59	17.51	17.49
		50	50	17.61	17.50	17.47
		100	0	17.60	17.47	17.51
	64QAM	1	0	17.64	17.44	17.46
		1	50	17.68	17.45	17.47
		1	99	17.68	17.45	17.52
		50	0	16.63	16.35	16.45
		50	25	16.64	16.35	16.47
		50	50	16.66	16.38	16.50
		100	0	16.66	16.42	16.50

LTE Band 4

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	18.56	18.56	18.60
		1	3	18.57	18.60	18.60
		1	5	18.56	18.58	18.58
		3	0	17.66	17.63	17.78
		3	1	17.65	17.62	17.74
		3	3	17.65	17.61	17.72
		6	0	17.69	17.63	17.71
	16QAM	1	0	17.73	17.61	17.66
		1	3	17.74	17.60	17.70
		1	5	17.76	17.58	17.73
		3	0	16.78	16.77	16.78
		3	1	16.78	16.79	16.74
		3	3	16.80	16.84	16.77
		6	0	16.79	16.88	16.79
	64QAM	1	0	16.74	16.85	16.76
		1	3	16.71	16.87	16.72
		1	5	16.69	16.88	16.67
		3	0	15.67	15.85	15.62
		3	1	15.63	15.89	15.62
		3	3	15.66	15.85	15.59
		6	0	15.64	15.90	15.60

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19965	20175	20385
3MHz	QPSK	1	0	18.54	18.56	18.61
		1	8	18.54	18.59	18.66
		1	14	18.54	18.58	18.63
		8	0	17.74	17.66	17.78
		8	4	17.70	17.64	17.78
		8	7	17.74	17.64	17.81
		15	0	17.77	17.62	17.81
	16QAM	1	0	17.75	17.65	17.78
		1	8	17.74	17.62	17.74
		1	14	17.71	17.66	17.72
		8	0	16.73	16.87	16.82
		8	4	16.72	16.92	16.75
		8	7	16.75	16.91	16.74
		15	0	16.80	16.88	16.77
	64QAM	1	0	16.84	16.86	16.72
		1	8	16.88	16.86	16.72
		1	14	16.91	16.82	16.71
		8	0	15.93	15.75	15.66
		8	4	15.98	15.71	15.71
		8	7	15.94	15.70	15.66
		15	0	15.94	15.74	15.67

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0	18.57	18.55	18.60
		1	13	18.59	18.57	18.61
		1	24	18.57	18.53	18.60
		12	0	17.68	17.57	17.76
		12	6	17.64	17.52	17.78
		12	13	17.67	17.49	17.80
		25	0	17.69	17.50	17.81
	16QAM	1	0	17.66	17.48	17.83
		1	13	17.65	17.50	17.87
		1	24	17.70	17.50	17.87
		12	0	16.82	16.76	16.92
		12	6	16.84	16.79	16.88
		12	13	16.80	16.74	16.91
		25	0	16.76	16.72	16.91
	64QAM	1	0	16.79	16.69	16.91
		1	13	16.74	16.67	16.91
		1	24	16.71	16.70	16.94
		12	0	15.73	15.63	15.89
		12	6	15.77	15.60	15.89
		12	13	15.80	15.55	15.91
		25	0	15.78	15.55	15.92

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0	18.53	18.59	18.52
		1	25	18.55	18.61	18.56
		1	49	18.53	18.58	18.53
		25	0	17.58	17.62	17.69
		25	12	17.62	17.64	17.70
		25	25	17.66	17.60	17.69
		50	0	17.67	17.61	17.70
	16QAM	1	0	17.67	17.64	17.66
		1	25	17.64	17.64	17.63
		1	49	17.68	17.61	17.66
		25	0	16.73	16.78	16.87
		25	12	16.71	16.83	16.82
		25	25	16.67	16.83	16.85
		50	0	16.69	16.79	16.86
	64QAM	1	0	16.69	16.84	16.88
		1	25	16.65	16.80	16.91
		1	49	16.64	16.79	16.90
		25	0	15.59	15.71	15.80
		25	12	15.64	15.69	15.79
		25	25	15.60	15.65	15.83
		50	0	15.56	15.62	15.82

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	18.51	18.56	18.51
		1	37	18.54	18.59	18.55
		1	74	18.51	18.54	18.53
		36	0	17.75	17.69	17.65
		36	20	17.72	17.65	17.64
		36	39	17.73	17.62	17.62
		75	0	17.77	17.58	17.64
	16QAM	1	0	17.78	17.62	17.59
		1	37	17.77	17.65	17.58
		1	74	17.73	17.60	17.62
		36	0	16.87	16.75	16.82
		36	20	16.88	16.80	16.77
		36	39	16.87	16.75	16.78
		75	0	16.90	16.78	16.78
	64QAM	1	0	16.89	16.79	16.75
		1	37	16.86	16.79	16.75
		1	74	16.85	16.79	16.70
		36	0	15.82	15.78	15.65
		36	20	15.79	15.76	15.65
		36	39	15.82	15.77	15.61
		75	0	15.83	15.81	15.60

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	18.52	18.58	18.57
		1	50	18.55	18.62	18.58
		1	99	18.55	18.62	18.53
		50	0	17.78	17.72	17.63
		50	25	17.79	17.72	17.68
		50	50	17.77	17.72	17.70
		100	0	17.80	17.76	17.70
	16QAM	1	0	17.79	17.80	17.67
		1	50	17.81	17.77	17.64
		1	99	17.79	17.74	17.68
		50	0	16.97	16.99	16.92
		50	25	16.97	16.92	16.89
		50	50	16.97	16.90	16.90
		100	0	17.00	16.86	16.95
	64QAM	1	0	16.97	16.90	16.98
		1	50	17.01	16.89	16.96
		1	99	17.04	16.85	16.94
		50	0	16.04	15.76	15.88
		50	25	16.07	15.78	15.84
		50	50	16.04	15.81	15.85
		100	0	16.00	15.84	15.81

LTE Band 5

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	21.31	21.36	21.27
		1	3	21.34	21.37	21.30
		1	5	21.33	21.33	21.26
		3	0	20.47	20.49	20.44
		3	1	20.42	20.46	20.47
		3	3	20.46	20.41	20.50
		6	0	20.43	20.40	20.46
	16QAM	1	0	20.39	20.45	20.51
		1	3	20.43	20.49	20.53
		1	5	20.42	20.45	20.50
		3	0	19.65	19.48	19.73
		3	1	19.59	19.53	19.67
		3	3	19.63	19.55	19.72
		6	0	19.58	19.52	19.76
	64QAM	1	0	19.56	19.56	19.78
		1	3	19.55	19.51	19.79
		1	5	19.56	19.48	19.81
		3	0	18.56	18.39	18.77
		3	1	18.52	18.41	18.72
		3	3	18.48	18.40	18.70
		6	0	18.53	18.39	18.74

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0	21.36	21.37	21.30
		1	8	21.39	21.37	21.34
		1	14	21.37	21.35	21.30
		8	0	20.48	20.45	20.42
		8	4	20.46	20.47	20.45
		8	7	20.48	20.42	20.42
		15	0	20.43	20.38	20.39
	16QAM	1	0	20.48	20.35	20.39
		1	8	20.45	20.34	20.42
		1	14	20.48	20.37	20.41
		8	0	19.60	19.63	19.64
		8	4	19.55	19.64	19.67
		8	7	19.59	19.68	19.66
		15	0	19.60	19.66	19.68
	64QAM	1	0	19.58	19.67	19.70
		1	8	19.60	19.65	19.66
		1	14	19.61	19.70	19.64
		8	0	18.52	18.72	18.67
		8	4	18.52	18.70	18.64
		8	7	18.55	18.69	18.59
		15	0	18.54	18.71	18.54

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0	21.35	21.32	21.35
		1	13	21.36	21.37	21.35
		1	24	21.32	21.34	21.35
		12	0	20.50	20.55	20.39
		12	6	20.51	20.58	20.36
		12	13	20.49	20.60	20.32
		25	0	20.47	20.55	20.32
	16QAM	1	0	20.52	20.59	20.35
		1	13	20.48	20.57	20.37
		1	24	20.45	20.60	20.42
		12	0	19.58	19.66	19.46
		12	6	19.62	19.68	19.42
		12	13	19.63	19.65	19.41
		25	0	19.62	19.69	19.44
	64QAM	1	0	19.62	19.68	19.44
		1	13	19.65	19.64	19.47
		1	24	19.69	19.64	19.44
		12	0	18.67	18.55	18.37
		12	6	18.65	18.50	18.37
		12	13	18.68	18.48	18.33
		25	0	18.64	18.48	18.37

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0	21.33	21.36	21.30
		1	25	21.35	21.39	21.32
		1	49	21.33	21.38	21.30
		25	0	20.58	20.46	20.41
		25	12	20.53	20.45	20.45
		25	25	20.57	20.44	20.47
		50	0	20.55	20.49	20.51
	16QAM	1	0	20.54	20.46	20.53
		1	25	20.55	20.44	20.57
		1	49	20.51	20.44	20.62
		25	0	19.74	19.47	19.86
		25	12	19.80	19.53	19.86
		25	25	19.76	19.55	19.83
		50	0	19.75	19.56	19.86
	64QAM	1	0	19.73	19.52	19.91
		1	25	19.72	19.51	19.91
		1	49	19.67	19.53	19.88
		25	0	18.65	18.49	18.80
		25	12	18.65	18.48	18.79
		25	25	18.70	18.46	18.76
		50	0	18.74	18.44	18.76

LTE Band 7

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	19.24	19.29	19.28
		1	13	19.25	19.34	19.32
		1	24	19.20	19.34	19.30
		12	0	18.26	18.51	18.34
		12	6	18.25	18.48	18.35
		12	13	18.27	18.48	18.36
		25	0	18.24	18.47	18.33
	16QAM	1	0	18.25	18.43	18.37
		1	13	18.23	18.43	18.32
		1	24	18.28	18.40	18.29
		12	0	17.46	17.63	17.32
		12	6	17.40	17.61	17.29
		12	13	17.41	17.56	17.32
		25	0	17.39	17.53	17.32
	64QAM	1	0	17.36	17.53	17.28
		1	13	17.34	17.57	17.24
		1	24	17.34	17.60	17.28
		12	0	16.31	16.53	16.20
		12	6	16.26	16.56	16.23
		12	13	16.26	16.52	16.28
		25	0	16.25	16.50	16.24

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0	19.28	19.37	19.36
		1	25	19.33	19.38	19.40
		1	49	19.29	19.37	19.36
		25	0	18.53	18.58	18.61
		25	12	18.54	18.55	18.65
		25	25	18.58	18.52	18.65
		50	0	18.55	18.57	18.60
	16QAM	1	0	18.54	18.55	18.59
		1	25	18.51	18.53	18.60
		1	49	18.52	18.54	18.60
		25	0	17.65	17.63	17.76
		25	12	17.58	17.60	17.73
		25	25	17.54	17.57	17.73
		50	0	17.54	17.61	17.72
	64QAM	1	0	17.56	17.59	17.75
		1	25	17.58	17.57	17.75
		1	49	17.55	17.56	17.74
		25	0	16.46	16.58	16.67
		25	12	16.42	16.62	16.69
		25	25	16.42	16.66	16.66
		50	0	16.43	16.70	16.67

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0	19.28	19.32	19.30
		1	37	19.31	19.34	19.35
		1	74	19.27	19.29	19.35
		36	0	18.31	18.51	18.53
		36	20	18.29	18.54	18.49
		36	39	18.33	18.55	18.52
		75	0	18.29	18.60	18.53
	16QAM	1	0	18.30	18.60	18.53
		1	37	18.31	18.60	18.54
		1	74	18.28	18.57	18.59
		36	0	17.31	17.65	17.84
		36	20	17.33	17.58	17.78
		36	39	17.36	17.61	17.79
		75	0	17.35	17.57	17.81
	64QAM	1	0	17.32	17.55	17.84
		1	37	17.29	17.52	17.87
		1	74	17.28	17.48	17.85
		36	0	16.20	16.46	16.84
		36	20	16.24	16.42	16.82
		36	39	16.22	16.39	16.84
		75	0	16.26	16.39	16.87

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0	19.27	19.32	19.31
		1	50	19.31	19.35	19.32
		1	99	19.29	19.33	19.29
		50	0	18.50	18.49	18.35
		50	25	18.54	18.46	18.31
		50	50	18.52	18.41	18.26
		100	0	18.54	18.40	18.29
	16QAM	1	0	18.54	18.36	18.30
		1	50	18.52	18.35	18.31
		1	99	18.53	18.36	18.35
		50	0	17.64	17.45	17.60
		50	25	17.58	17.48	17.57
		50	50	17.60	17.47	17.59
		100	0	17.56	17.49	17.62
	64QAM	1	0	17.56	17.48	17.59
		1	50	17.52	17.44	17.55
		1	99	17.50	17.45	17.60
		50	0	16.47	16.36	16.51
		50	25	16.50	16.41	16.48
		50	50	16.47	16.45	16.44
		100	0	16.51	16.45	16.49

LTE Band 38

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37775	38000	38225
5MHz	QPSK	1	0	18.60	18.69	18.57
		1	13	18.64	18.69	18.58
		1	24	18.62	18.65	18.54
		12	0	17.62	17.75	17.59
		12	6	17.59	17.76	17.55
		12	13	17.63	17.80	17.59
		25	0	17.68	17.80	17.55
	16QAM	1	0	17.66	17.84	17.50
		1	13	17.65	17.88	17.54
		1	24	17.65	17.92	17.49
		12	0	16.78	17.08	16.61
		12	6	16.75	17.05	16.57
		12	13	16.74	17.06	16.53
		25	0	16.75	17.02	16.52
	64QAM	1	0	16.72	17.01	16.49
		1	13	16.72	17.02	16.46
		1	24	16.72	17.00	16.42
		12	0	15.72	15.92	15.40
		12	6	15.73	15.91	15.40
		12	13	15.70	15.90	15.39
		25	0	15.70	15.95	15.42

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37800	38000	38200
10MHz	QPSK	1	0	18.60	18.63	18.62
		1	25	18.64	18.67	18.63
		1	49	18.62	18.65	18.58
		25	0	17.84	17.73	17.58
		25	12	17.88	17.74	17.61
		25	25	17.89	17.78	17.59
		50	0	17.90	17.79	17.56
	16QAM	1	0	17.85	17.81	17.59
		1	25	17.81	17.86	17.60
		1	49	17.77	17.81	17.63
		25	0	16.97	16.93	16.65
		25	12	16.90	16.98	16.66
		25	25	16.89	16.95	16.67
		50	0	16.89	16.97	16.65
	64QAM	1	0	16.87	16.99	16.64
		1	25	16.90	16.98	16.63
		1	49	16.86	16.97	16.65
		25	0	15.86	15.94	15.66
		25	12	15.82	15.96	15.69
		25	25	15.84	15.96	15.68
		50	0	15.80	15.98	15.65

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37825	38000	38175
15MHz	QPSK	1	0	18.62	18.68	18.62
		1	37	18.67	18.70	18.66
		1	74	18.64	18.70	18.61
		36	0	17.81	17.81	17.84
		36	20	17.86	17.85	17.80
		36	39	17.81	17.90	17.77
		75	0	17.78	17.88	17.74
	16QAM	1	0	17.80	17.89	17.72
		1	37	17.80	17.90	17.77
		1	74	17.80	17.92	17.75
		36	0	16.95	17.11	16.79
		36	20	16.95	17.12	16.80
		36	39	16.97	17.16	16.83
		75	0	17.01	17.15	16.87
	64QAM	1	0	17.04	17.20	16.90
		1	37	17.05	17.20	16.85
		1	74	17.03	17.21	16.83
		36	0	15.99	16.15	15.86
		36	20	16.01	16.18	15.85
		36	39	15.99	16.13	15.82
		75	0	15.97	16.13	15.83

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37850	38000	38150
20MHz	QPSK	1	0	18.63	18.72	18.66
		1	50	18.68	18.73	18.66
		1	99	18.64	18.71	18.65
		50	0	17.82	17.93	17.74
		50	25	17.83	17.96	17.78
		50	50	17.79	17.94	17.82
		100	0	17.82	17.96	17.83
	16QAM	1	0	17.81	18.01	17.83
		1	50	17.78	18.03	17.87
		1	99	17.73	18.07	17.85
		50	0	16.93	17.29	17.11
		50	25	16.91	17.34	17.16
		50	50	16.87	17.32	17.16
		100	0	16.86	17.33	17.16
	64QAM	1	0	16.85	17.33	17.12
		1	50	16.85	17.31	17.13
		1	99	16.89	17.31	17.10
		50	0	15.84	16.25	16.09
		50	25	15.86	16.21	16.06
		50	50	15.86	16.25	16.06
		100	0	15.86	16.22	16.04

LTE Band 41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40065	40640	41215
5MHz	QPSK	1	0	18.30	18.53	18.46
		1	13	18.33	18.54	18.47
		1	24	18.33	18.51	18.46
		12	0	17.55	17.66	17.51
		12	6	17.53	17.62	17.47
		12	13	17.53	17.64	17.46
		25	0	17.49	17.67	17.46
	16QAM	1	0	17.52	17.67	17.44
		1	13	17.49	17.66	17.42
		1	24	17.47	17.65	17.46
		12	0	16.56	16.86	16.53
		12	6	16.54	16.88	16.48
		12	13	16.57	16.83	16.51
		25	0	16.59	16.82	16.47
	64QAM	1	0	16.58	16.82	16.48
		1	13	16.56	16.83	16.45
		1	24	16.51	16.82	16.43
		12	0	15.54	15.74	15.37
		12	6	15.53	15.75	15.42
		12	13	15.50	15.73	15.41
		25	0	15.46	15.71	15.45

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40090	40640	41190
10MHz	QPSK	1	0	18.38	18.53	18.49
		1	25	18.40	18.57	18.50
		1	49	18.36	18.53	18.49
		25	0	17.57	17.61	17.58
		25	12	17.61	17.63	17.60
		25	25	17.58	17.65	17.61
		50	0	17.53	17.65	17.58
	16QAM	1	0	17.56	17.63	17.60
		1	25	17.58	17.67	17.60
		1	49	17.58	17.67	17.65
		25	0	16.76	16.76	16.71
		25	12	16.76	16.79	16.71
		25	25	16.80	16.78	16.75
		50	0	16.83	16.79	16.70
	64QAM	1	0	16.84	16.84	16.67
		1	25	16.85	16.87	16.63
		1	49	16.81	16.86	16.66
		25	0	15.80	15.83	15.65
		25	12	15.83	15.84	15.66
		25	25	15.85	15.84	15.67
		50	0	15.81	15.86	15.69

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40115	40640	41165
15MHz	QPSK	1	0	18.42	18.51	18.49
		1	37	18.45	18.55	18.51
		1	74	18.43	18.53	18.49
		36	0	17.53	17.63	17.62
		36	20	17.49	17.62	17.60
		36	39	17.50	17.64	17.55
		75	0	17.55	17.62	17.52
	16QAM	1	0	17.57	17.63	17.55
		1	37	17.61	17.63	17.50
		1	74	17.65	17.58	17.47
		36	0	16.71	16.72	16.68
		36	20	16.73	16.75	16.66
		36	39	16.76	16.77	16.68
		75	0	16.72	16.74	16.68
	64QAM	1	0	16.74	16.72	16.71
		1	37	16.70	16.75	16.69
		1	74	16.66	16.73	16.65
		36	0	15.57	15.72	15.62
		36	20	15.55	15.68	15.62
		36	39	15.59	15.64	15.64
		75	0	15.55	15.68	15.68

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				40140	40640	41140
20MHz	QPSK	1	0	18.49	18.51	18.49
		1	50	18.49	18.55	18.54
		1	99	18.47	18.54	18.54
		50	0	17.57	17.74	17.70
		50	25	17.56	17.70	17.71
		50	50	17.55	17.68	17.73
		100	0	17.57	17.68	17.72
	16QAM	1	0	17.59	17.64	17.71
		1	50	17.58	17.69	17.68
		1	99	17.57	17.72	17.64
		50	0	16.66	16.94	16.71
		50	25	16.67	16.99	16.70
		50	50	16.64	16.97	16.66
		100	0	16.60	16.95	16.63
	64QAM	1	0	16.64	16.96	16.64
		1	50	16.63	16.98	16.69
		1	99	16.66	17.01	16.73
		50	0	15.68	16.02	15.74
		50	25	15.67	16.04	15.69
		50	50	15.67	16.05	15.65
		100	0	15.66	16.10	15.68

LTE Band 66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19207	19575	19943
1.4MHz	QPSK	1	0	19.62	19.46	19.65
		1	3	19.67	19.48	19.66
		1	5	19.65	19.43	19.62
		3	0	18.67	18.54	18.86
		3	1	18.62	18.57	18.83
		3	3	18.62	18.61	18.83
		6	0	18.62	18.65	18.86
	16QAM	1	0	18.65	18.66	18.89
		1	3	18.64	18.67	18.85
		1	5	18.66	18.69	18.89
		3	0	17.74	17.69	17.89
		3	1	17.74	17.70	17.91
		3	3	17.72	17.71	17.87
		6	0	17.75	17.67	17.83
	64QAM	1	0	17.79	17.71	17.82
		1	3	17.83	17.71	17.84
		1	5	17.87	17.72	17.88
		3	0	16.84	16.75	16.86
		3	1	16.84	16.76	16.83
		3	3	16.88	16.80	16.81
		6	0	16.88	16.77	16.84

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19215	19575	19935
3MHz	QPSK	1	0	19.72	19.55	19.63
		1	8	19.75	19.57	19.65
		1	14	19.71	19.52	19.62
		8	0	18.75	18.62	18.68
		8	4	18.77	18.58	18.73
		8	7	18.78	18.56	18.71
		15	0	18.78	18.52	18.73
	16QAM	1	0	18.75	18.53	18.77
		1	8	18.74	18.50	18.75
		1	14	18.79	18.50	18.78
		8	0	17.88	17.71	17.98
		8	4	17.82	17.75	18.02
		8	7	17.87	17.77	18.05
		15	0	17.87	17.78	18.02
	64QAM	1	0	17.83	17.74	18.01
		1	8	17.78	17.79	17.99
		1	14	17.77	17.84	18.03
		8	0	16.70	16.78	17.06
		8	4	16.74	16.80	17.03
		8	7	16.76	16.82	17.05
		15	0	16.78	16.86	17.03

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19225	19575	19925
5MHz	QPSK	1	0	19.58	19.58	19.57
		1	13	19.61	19.60	19.58
		1	24	19.60	19.59	19.53
		12	0	18.63	18.81	18.77
		12	6	18.63	18.83	18.74
		12	13	18.59	18.79	18.76
		25	0	18.64	18.77	18.71
	16QAM	1	0	18.60	18.74	18.68
		1	13	18.56	18.71	18.67
		1	24	18.54	18.68	18.71
		12	0	17.68	17.91	17.92
		12	6	17.61	17.86	17.97
		12	13	17.56	17.88	17.98
		25	0	17.59	17.85	17.96
	64QAM	1	0	17.58	17.84	17.99
		1	13	17.58	17.82	18.01
		1	24	17.62	17.85	17.98
		12	0	16.53	16.78	16.91
		12	6	16.52	16.77	16.95
		12	13	16.48	16.75	16.94
		25	0	16.52	16.76	16.98

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19250	19575	19900
10MHz	QPSK	1	0	19.63	19.64	19.53
		1	25	19.64	19.65	19.54
		1	49	19.62	19.62	19.54
		25	0	18.68	18.71	18.67
		25	12	18.63	18.75	18.66
		25	25	18.59	18.80	18.64
		50	0	18.62	18.79	18.67
	16QAM	1	0	18.58	18.80	18.62
		1	25	18.58	18.76	18.67
		1	49	18.59	18.74	18.67
		25	0	17.63	17.75	17.70
		25	12	17.56	17.70	17.69
		25	25	17.54	17.67	17.65
		50	0	17.50	17.66	17.64
	64QAM	1	0	17.46	17.67	17.67
		1	25	17.46	17.66	17.70
		1	49	17.47	17.65	17.73
		25	0	16.41	16.61	16.68
		25	12	16.37	16.64	16.68
		25	25	16.34	16.67	16.64
		50	0	16.37	16.63	16.64

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19275	19575	19875
15MHz	QPSK	1	0	19.68	19.67	19.50
		1	37	19.68	19.67	19.54
		1	74	19.67	19.66	19.51
		36	0	18.69	18.91	18.70
		36	20	18.70	18.96	18.74
		36	39	18.69	18.98	18.75
		75	0	18.69	19.02	18.79
	16QAM	1	0	18.69	18.99	18.74
		1	37	18.65	18.99	18.74
		1	74	18.68	18.99	18.70
		36	0	17.69	18.09	17.86
		36	20	17.64	18.04	17.88
		36	39	17.64	18.02	17.89
		75	0	17.67	17.98	17.92
	64QAM	1	0	17.67	17.98	17.93
		1	37	17.62	17.98	17.97
		1	74	17.61	17.94	17.96
		36	0	16.56	16.85	16.98
		36	20	16.60	16.84	17.03
		36	39	16.56	16.87	17.04
		75	0	16.52	16.83	17.07

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19300	19575	19850
20MHz	QPSK	1	0	19.62	19.70	19.63
		1	50	19.65	19.71	19.63
		1	99	19.64	19.69	19.59
		50	0	18.69	18.76	18.60
		50	25	18.71	18.75	18.57
		50	50	18.71	18.74	18.57
		100	0	18.70	18.78	18.53
	16QAM	1	0	18.72	18.83	18.51
		1	50	18.69	18.79	18.47
		1	99	18.66	18.83	18.48
		50	0	17.76	18.05	17.70
		50	25	17.75	18.00	17.63
		50	50	17.79	18.00	17.65
		100	0	17.82	17.95	17.68
	64QAM	1	0	17.87	17.93	17.68
		1	50	17.89	17.90	17.72
		1	99	17.93	17.88	17.73
		50	0	16.93	16.88	16.74
		50	25	16.96	16.83	16.70
		50	50	16.95	16.86	16.68
		100	0	16.94	16.84	16.64

2.4G WIFI original Power

802.11b AVERAGE CONDUCTED POWER (dBm)					
Channel	Frequency (MHz)	Data Rate (Mbps)			
		1	2	5.5	11
CH 01	2,412	12.47	12.34	12.32	12.22
CH 06	2,437	14.98	14.78	14.73	14.63
CH 11	2,462	13.05	12.91	12.85	12.77

802.11g AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
CH 01	2,412	12.43	12.19	12.06	12.03	11.86	11.79	11.69	11.57
CH 06	2,437	17.11	16.78	16.70	16.57	16.45	16.40	16.25	16.22
CH 11	2,462	11.44	11.27	11.19	11.11	10.98	10.90	10.80	10.69

802.11n-HT20 AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2,412	12.08	11.77	11.58	11.59	11.34	11.26	11.02	10.65
CH 06	2,437	16.89	16.43	16.33	16.29	16.09	15.98	15.72	15.38
CH 11	2,462	11.56	11.32	11.19	11.10	10.93	10.76	10.59	10.27

802.11n-HT40 AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 03	2,422	8.59	8.24	8.07	8.06	7.88	7.69	7.51	7.20
CH 06	2,437	12.51	12.20	11.99	11.94	11.78	11.64	11.41	11.12
CH 09	2,452	8.14	7.84	7.68	7.62	7.47	7.32	7.11	6.78

2.4G WIFI Reduce Power (Head)

802.11b AVERAGE CONDUCTED POWER (dBm)					
Channel	Frequency (MHz)	Data Rate (Mbps)			
		1	2	5.5	11
CH 01	2,412	12.47	12.34	12.32	12.22
CH 06	2,437	14.98	14.78	14.73	14.63
CH 11	2,462	13.05	12.91	12.85	12.77

802.11g AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
CH 01	2,412	12.43	12.19	12.06	12.03	11.86	11.79	11.69	11.57
CH 06	2,437	16.18	15.86	15.75	15.62	15.59	15.50	15.36	15.27
CH 11	2,462	11.44	11.27	11.19	11.11	10.98	10.90	10.80	10.69

802.11n-HT20 AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2,412	12.08	11.77	11.58	11.59	11.34	11.26	11.02	10.65
CH 06	2,437	16.22	15.82	15.67	15.62	15.45	15.27	15.07	14.73
CH 11	2,462	11.56	11.32	11.19	11.10	10.93	10.76	10.59	10.27

802.11n-HT40 AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 03	2,422	8.59	8.24	8.07	8.06	7.88	7.69	7.51	7.20
CH 06	2,437	12.51	12.20	11.99	11.94	11.78	11.64	11.41	11.12
CH 09	2,452	8.14	7.84	7.68	7.62	7.47	7.32	7.11	6.78

2.4G WIFI Reduce Power (Body)

802.11b AVERAGE CONDUCTED POWER (dBm)					
Channel	Frequency (MHz)	Data Rate (Mbps)			
		1	2	5.5	11
CH 01	2,412	12.47	12.34	12.32	12.22
CH 06	2,437	14.98	14.78	14.73	14.63
CH 11	2,462	13.05	12.91	12.85	12.77

802.11g AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
CH 01	2,412	12.43	12.19	12.06	12.03	11.86	11.79	11.69	11.57
CH 06	2,437	17.11	16.78	16.70	16.57	16.45	16.40	16.25	16.22
CH 11	2,462	11.44	11.27	11.19	11.11	10.98	10.90	10.80	10.69

802.11n-HT20 AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2,412	12.08	11.77	11.58	11.59	11.34	11.26	11.02	10.65
CH 06	2,437	16.89	16.43	16.33	16.29	16.09	15.98	15.72	15.38
CH 11	2,462	11.56	11.32	11.19	11.10	10.93	10.76	10.59	10.27

802.11n-HT40 AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 03	2,422	8.59	8.24	8.07	8.06	7.88	7.69	7.51	7.20
CH 06	2,437	12.51	12.20	11.99	11.94	11.78	11.64	11.41	11.12
CH 09	2,452	8.14	7.84	7.68	7.62	7.47	7.32	7.11	6.78

2.4G WIFI Reduce Power (Head Simultaneous)

802.11b AVERAGE CONDUCTED POWER (dBm)					
Channel	Frequency (MHz)	Data Rate (Mbps)			
		1	2	5.5	11
CH 01	2,412	12.47	12.34	12.32	12.22
CH 06	2,437	14.56	14.35	14.28	14.23
CH 11	2,462	13.05	12.91	12.85	12.77

802.11g AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
CH 01	2,412	12.43	12.19	12.06	12.03	11.86	11.79	11.69	11.57
CH 06	2,437	14.62	14.31	14.21	14.14	14.00	13.90	13.83	13.73
CH 11	2,462	11.44	11.27	11.19	11.11	10.98	10.90	10.80	10.69

802.11n-HT20 AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2,412	12.08	11.77	11.58	11.59	11.34	11.26	11.02	10.65
CH 06	2,437	14.49	14.10	13.96	13.91	13.68	13.53	13.35	13.02
CH 11	2,462	11.56	11.32	11.19	11.10	10.93	10.76	10.59	10.27

802.11n-HT40 AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 03	2,422	8.59	8.24	8.07	8.06	7.88	7.69	7.51	7.20
CH 06	2,437	12.51	12.20	11.99	11.94	11.78	11.64	11.41	11.12
CH 09	2,452	8.14	7.84	7.68	7.62	7.47	7.32	7.11	6.78

2.4G WIFI Reduce Power (Body Simultaneous)

802.11b AVERAGE CONDUCTED POWER (dBm)					
Channel	Frequency (MHz)	Data Rate (Mbps)			
		1	2	5.5	11
CH 01	2,412	12.47	12.34	12.32	12.22
CH 06	2,437	14.98	14.78	14.73	14.63
CH 11	2,462	13.05	12.91	12.85	12.77

802.11g AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
CH 01	2,412	12.43	12.19	12.06	12.03	11.86	11.79	11.69	11.57
CH 06	2,437	16.54	16.24	16.12	16.06	15.94	15.82	15.70	15.64
CH 11	2,462	11.44	11.27	11.19	11.11	10.98	10.90	10.80	10.69

802.11n-HT20 AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2,412	12.08	11.77	11.58	11.59	11.34	11.26	11.02	10.65
CH 06	2,437	16.56	16.11	15.96	15.91	15.75	15.57	15.43	15.05
CH 11	2,462	11.56	11.32	11.19	11.10	10.93	10.76	10.59	10.27

802.11n-HT40 AVERAGE CONDUCTED POWER (dBm)									
Channel	Frequency (MHz)	Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 03	2,422	8.59	8.24	8.07	8.06	7.88	7.69	7.51	7.20
CH 06	2,437	12.51	12.20	11.99	11.94	11.78	11.64	11.41	11.12
CH 09	2,452	8.14	7.84	7.68	7.62	7.47	7.32	7.11	6.78

5G WIFI Original power

Band (GHz)	Mode	Data Rate	CH#	Freq (MHz)	AVERAGE CONDUCTED POWER (dBm)
5.2	802.11a	6Mbps	36	5180	15.08
			40	5200	17.56
			44	5220	17.47
			48	5240	17.51
	802.11n (HT20)	MCS0	36	5180	14.99
			40	5200	17.47
			48	5240	17.52
	802.11n (HT40)	MCS0	38	5190	12.62
			46	5230	17.08
	802.11ac (HT20)	MCS0	36	5180	15.04
			40	5200	17.67
			48	5240	17.68
	802.11ac (HT40)	MCS0	38	5190	12.5
			46	5230	17.07
	802.11ac (HT80)	MCS0	42	5210	12.07
5.3	802.11a	6Mbps	52	5260	17.68
			56	5280	17.51
			60	5300	17.68
			64	5320	14.65
	802.11n (HT20)	MCS0	52	5260	17.49
			60	5300	17.67
			64	5320	14.65
	802.11n (HT40)	MCS0	54	5270	16.6
			62	5310	12.52
	802.11ac (HT20)	MCS0	52	5260	17.64
			60	5300	17.69
			64	5320	14.49
	802.11ac	MCS0	54	5270	16.5

5.6G	(HT40)		62	5310	12.5	
	802.11ac (HT80)	MCS0	58	5300	11.56	
	802.11a	6Mbps	100	5500	14.48	
			104	5520	14.64	
			108	5540	14.62	
			112	5560	14.51	
			116	5580	17.53	
			120	5600	17.67	
			124	5620	17.66	
			128	5640	17.62	
			132	5660	13.04	
			136	5680	13.17	
			140	5700	13.13	
	802.11n (HT20)	MCS0	100	5500	14.61	
	802.11n (HT40)	MCS0	116	5580	17.68	
			140	5700	13.16	
			102	5510	12.62	
	802.11ac (HT20)	MCS0	110	5550	17.61	
			134	5670	15.07	
			100	5500	14.65	
	802.11ac (HT40)	MCS0	116	5580	17.61	
			140	5700	13.17	
			102	5510	12.51	
	802.11ac (HT80)	MCS0	110	5550	17.65	
			142	5710	15.04	
			106	5530	12.17	
	802.11a	6Mbps	122	5610	15.19	
			138	5690	17.62	
			149	5745	17.63	
	SRD	802.11n (HT20)	MCS0	157	5785	17.55
				165	5825	17.64
		802.11n (HT20)	MCS0	149	5745	17.63
157				5785	17.63	

			165	5825	17.53
	802.11n (HT40)	MCS0	151	5755	17.59
			159	5795	17.65
	802.11ac (HT20)	MCS0	149	5745	17.5
			157	5785	17.53
			165	5825	17.64
	802.11ac (HT40)	MCS0	151	5755	17.69
			159	5795	17.67
	802.11ac (HT80)	MCS0	155	5775	16.04

5G WIFI Reduce power (Head)

Band (GHz)	Mode	Data Rate	CH#	Freq (MHz)	AVERAGE CONDUCTED POWER (dBm)
5.2	802.11a	6Mbps	36	5180	15.08
			40	5200	15.05
			44	5220	15.14
			48	5240	15.19
	802.11n (HT20)	MCS0	36	5180	14.99
			40	5200	15.01
			48	5240	14.98
	802.11n (HT40)	MCS0	38	5190	12.62
			46	5230	14.79
	802.11ac (HT20)	MCS0	36	5180	15.04
			40	5200	14.74
			48	5240	14.63
	802.11ac (HT40)	MCS0	38	5190	12.5
			46	5230	15.18
	802.11ac (HT80)	MCS0	42	5210	12.07
5.3	802.11a	6Mbps	52	5260	15.17
			56	5280	15.15
			60	5300	15.19
			64	5320	14.65
	802.11n (HT20)	MCS0	52	5260	15.16
			60	5300	15.14
			64	5320	14.65
	802.11n (HT40)	MCS0	54	5270	15.06
			62	5310	12.52
	802.11ac (HT20)	MCS0	52	5260	15.10
			60	5300	15.11
			64	5320	14.49
	802.11ac	MCS0	54	5270	15.07

5.6G	(HT40)		62	5310	12.5	
	802.11ac (HT80)	MCS0	58	5300	11.56	
	802.11a	6Mbps	100	5500	13.98	
			104	5520	14.07	
			108	5540	14.05	
			112	5560	14.13	
			116	5580	14.14	
			120	5600	13.97	
			124	5620	14.16	
			128	5640	13.97	
			132	5660	13.04	
			136	5680	13.17	
			140	5700	13.13	
	802.11n (HT20)	MCS0	100	5500	14.06	
	(HT20)		116	5580	14.01	
			140	5700	13.16	
	802.11n (HT40)	MCS0	102	5510	12.62	
			110	5550	13.97	
			134	5670	14.11	
	802.11ac (HT20)	MCS0	100	5500	14.06	
			116	5580	14.11	
			140	5700	13.17	
	802.11ac (HT40)	MCS0	102	5510	12.51	
			110	5550	14.04	
			142	5710	13.99	
	802.11ac (HT80)	MCS0	106	5530	12.17	
			122	5610	14.11	
			138	5690	14.08	
	SRD	802.11a	6Mbps	149	5745	14.63
				157	5785	14.46
				165	5825	14.54
		802.11n (HT20)	MCS0	149	5745	14.58
157				5785	14.63	

			165	5825	14.52
	802.11n (HT40)	MCS0	151	5755	14.46
			159	5795	14.65
	802.11ac (HT20)	MCS0	149	5745	14.46
			157	5785	14.56
			165	5825	14.53
	802.11ac (HT40)	MCS0	151	5755	14.68
			159	5795	14.68
	802.11ac (HT80)	MCS0	155	5775	14.65

5G WIFI Reduce power (Body)

Band (GHz)	Mode	Data Rate	CH#	Freq (MHz)	AVERAGE CONDUCTED POWER (dBm)
5.2	802.11a	6Mbps	36	5180	15.08
			40	5200	15.99
			44	5220	16.08
			48	5240	16.18
	802.11n (HT20)	MCS0	36	5180	14.99
			40	5200	16.15
			48	5240	16.21
	802.11n (HT40)	MCS0	38	5190	12.62
			46	5230	15.92
	802.11ac (HT20)	MCS0	36	5180	15.04
			40	5200	16.11
			48	5240	16.00
	802.11ac (HT40)	MCS0	38	5190	12.5
			46	5230	16.01
	802.11ac (HT80)	MCS0	42	5210	12.07
5.3	802.11a	6Mbps	52	5260	16.22
			56	5280	15.96
			60	5300	16.17
			64	5320	14.65
	802.11n (HT20)	MCS0	52	5260	16.07
			60	5300	16.13
			64	5320	14.65
	802.11n (HT40)	MCS0	54	5270	15.97
			62	5310	12.52
	802.11ac (HT20)	MCS0	52	5260	16.04
			60	5300	15.94
			64	5320	14.49
	802.11ac	MCS0	54	5270	15.99

5.6G	(HT40)		62	5310	12.5	
	802.11ac (HT80)	MCS0	58	5300	11.56	
	802.11a	6Mbps	100	5500	14.48	
			104	5520	14.64	
			108	5540	14.62	
			112	5560	14.51	
			116	5580	15.10	
			120	5600	15.21	
			124	5620	14.93	
			128	5640	15.07	
			132	5660	13.04	
			136	5680	13.17	
			140	5700	13.13	
	802.11n (HT20)	MCS0	100	5500	14.61	
	802.11n (HT40)	MCS0	116	5580	15.03	
			140	5700	13.16	
			102	5510	12.62	
	802.11ac (HT20)	MCS0	110	5550	14.92	
			134	5670	15.07	
			100	5500	14.65	
	802.11ac (HT40)	MCS0	116	5580	15.13	
			140	5700	13.17	
			102	5510	12.51	
	802.11ac (HT80)	MCS0	110	5550	15.10	
			142	5710	15.04	
			106	5530	12.17	
	802.11a	6Mbps	122	5610	15.19	
			138	5690	15.06	
			149	5745	15.15	
	SRD	802.11n (HT20)	MCS0	157	5785	15.05
				165	5825	15.21
		802.11n (HT20)	MCS0	149	5745	14.97
157				5785	15.14	

			165	5825	15.09
	802.11n (HT40)	MCS0	151	5755	14.99
			159	5795	15.11
	802.11ac (HT20)	MCS0	149	5745	15.15
			157	5785	14.99
			165	5825	15.01
	802.11ac (HT40)	MCS0	151	5755	15.00
			159	5795	15.21
	802.11ac (HT80)	MCS0	155	5775	15.02

5G WIFI Reduce power (Head Simultaneous)

Band (GHz)	Mode	Data Rate	CH#	Freq (MHz)	AVERAGE CONDUCTED POWER (dBm)
5.2	802.11a	6Mbps	36	5180	13.59
			40	5200	13.43
			44	5220	13.56
			48	5240	13.42
	802.11n (HT20)	MCS0	36	5180	13.60
			40	5200	13.67
			48	5240	13.59
	802.11n (HT40)	MCS0	38	5190	12.62
			46	5230	13.56
	802.11ac (HT20)	MCS0	36	5180	13.57
			40	5200	13.51
			48	5240	13.51
	802.11ac (HT40)	MCS0	38	5190	12.5
			46	5230	13.66
	802.11ac (HT80)	MCS0	42	5210	12.07
5.3	802.11a	6Mbps	52	5260	13.68
			56	5280	13.43
			60	5300	13.66
			64	5320	13.59
	802.11n (HT20)	MCS0	52	5260	13.49
			60	5300	13.68
			64	5320	13.45
	802.11n (HT40)	MCS0	54	5270	13.65
			62	5310	12.52
	802.11ac (HT20)	MCS0	52	5260	13.66
			60	5300	13.72
			64	5320	13.54
	802.11ac	MCS0	54	5270	13.50

5.6G	(HT40)		62	5310	12.5	
	802.11ac (HT80)	MCS0	58	5300	11.56	
	802.11a	6Mbps	100	5500	12.62	
			104	5520	12.54	
			108	5540	12.67	
			112	5560	12.61	
			116	5580	12.48	
			120	5600	12.71	
			124	5620	12.67	
			128	5640	12.52	
			132	5660	12.49	
			136	5680	12.72	
			140	5700	12.48	
	802.11n (HT20)	MCS0	100	5500	12.66	
	(HT20)		116	5580	12.66	
			140	5700	12.64	
	802.11n (HT40)	MCS0	102	5510	12.62	
	(HT40)		110	5550	12.43	
			134	5670	12.72	
	802.11ac (HT20)	MCS0	100	5500	12.62	
	(HT20)		116	5580	12.54	
			140	5700	12.59	
	802.11ac (HT40)	MCS0	102	5510	12.51	
	(HT40)		110	5550	12.52	
			142	5710	12.45	
	802.11ac (HT80)	MCS0	106	5530	12.17	
	(HT80)		122	5610	12.53	
			138	5690	12.51	
	SRD	802.11a	6Mbps	149	5745	12.54
				157	5785	12.70
				165	5825	12.54
		802.11n (HT20)	MCS0	149	5745	12.50
				157	5785	12.50

			165	5825	12.62
	802.11n (HT40)	MCS0	151	5755	12.63
			159	5795	12.54
	802.11ac (HT20)	MCS0	149	5745	12.45
			157	5785	12.47
			165	5825	12.54
	802.11ac (HT40)	MCS0	151	5755	12.51
			159	5795	12.51
	802.11ac (HT80)	MCS0	155	5775	12.44

5G WIFI Reduce power (Body Simultaneous)

Band (GHz)	Mode	Data Rate	CH#	Freq (MHz)	AVERAGE CONDUCTED POWER (dBm)
5.2	802.11a	6Mbps	36	5180	13.59
			40	5200	13.43
			44	5220	13.56
			48	5240	13.42
	802.11n (HT20)	MCS0	36	5180	13.60
			40	5200	13.67
			48	5240	13.59
	802.11n (HT40)	MCS0	38	5190	12.62
			46	5230	13.56
	802.11ac (HT20)	MCS0	36	5180	13.57
			40	5200	13.51
			48	5240	13.51
	802.11ac (HT40)	MCS0	38	5190	12.5
			46	5230	13.66
	802.11ac (HT80)	MCS0	42	5210	12.07
5.3	802.11a	6Mbps	52	5260	13.68
			56	5280	13.43
			60	5300	13.66
			64	5320	13.59
	802.11n (HT20)	MCS0	52	5260	13.49
			60	5300	13.68
			64	5320	13.45
	802.11n (HT40)	MCS0	54	5270	13.65
			62	5310	12.52
	802.11ac (HT20)	MCS0	52	5260	13.66
			60	5300	13.72
			64	5320	13.54
	802.11ac	MCS0	54	5270	13.50

5.6G	(HT40)		62	5310	12.5	
	802.11ac (HT80)	MCS0	58	5300	11.56	
	802.11a	6Mbps	100	5500	13.58	
			104	5520	13.60	
			108	5540	13.65	
			112	5560	13.60	
			116	5580	13.69	
			120	5600	13.42	
			124	5620	13.54	
			128	5640	13.63	
			132	5660	13.04	
			136	5680	13.17	
			140	5700	13.13	
	802.11n (HT20)	MCS0	100	5500	13.45	
	802.11n (HT40)	MCS0	116	5580	13.49	
			140	5700	13.16	
			102	5510	12.62	
	802.11ac (HT20)	MCS0	110	5550	13.48	
			134	5670	13.58	
			100	5500	13.67	
	802.11ac (HT40)	MCS0	116	5580	13.68	
			140	5700	13.17	
			102	5510	12.51	
	802.11ac (HT80)	MCS0	110	5550	13.58	
			142	5710	13.50	
			106	5530	12.17	
	802.11a	6Mbps	122	5610	13.51	
			138	5690	13.70	
			149	5745	13.54	
	SRD	802.11n (HT20)	MCS0	157	5785	13.48
				165	5825	13.69
		802.11n (HT20)	MCS0	149	5745	13.59
157				5785	13.61	

			165	5825	13.57
	802.11n (HT40)	MCS0	151	5755	13.48
			159	5795	13.72
	802.11ac (HT20)	MCS0	149	5745	13.42
			157	5785	13.67
			165	5825	13.52
	802.11ac (HT40)	MCS0	151	5755	13.60
			159	5795	13.66
	802.11ac (HT80)	MCS0	155	5775	13.51

Bluetooth 2.4GHz(BR/EDR) Band Conducted Power		
Channel	Frequency(MHz)	Conducted Power (dBm)
CH 0	2,402	12.28
CH 39	2,441	12.31
CH 78	2,480	12.29

BLE2.4GHz Band Conducted Power		
Channel	Frequency(MHz)	Conducted Power (dBm)
CH 0	2,402	5.15
CH 19	2,440	5.18
CH 39	2,480	5.13

Remark:

Output Power Measurement Considerations for Wi-Fi 2.4 GHz band

1. 2.4 GHz 802.11b DSSS:

- Output power measurement is not required:
 - o When SAR Test Exclusion according to KDB 447498 D01 applies.
 - o When other power measurement reduction applies.
- Otherwise, output power measurement is required on:
 - o Channels 1, 6, and 11, when the output power specified for other channels is no higher than the abovementioned channels.
 - o The closest adjacent channels to the aforementioned channels, when the output power specified for these adjacent channels is higher.
- For ease of identification, 802.11b DSSS is identified as the Initial Test Configuration for the 2.4 GHz band.

2. 2.4 GHz 802.11g/n OFDM

- Output power measurement is not required:
 - o When SAR Test Exclusion according to KDB 447498 D01 applies.
 - o When SAR Test Exclusion procedures for 2.4 GHz 802.11g/n OFDM applies, according to the SAR measurement results from 802.11b DSSS; see Section 11 of the report for details.
- Otherwise, output power measurement is required for 2.4 GHz 802.11g/n OFDM, with the

following considerations:

- o If 40 MHz bandwidth configurations are supported, measure power for either Channel 6 or the highest specified output power channel.

- o Output power measurement requirements for smaller bandwidth configurations are dependent on the SAR measurement results from the 40 MHz bandwidth configurations.

- o If no 40 MHz bandwidth configurations are supported, then a channel selection process similar to 802.11b DSSS is applied.

- The output power measurement is required for 2.4 GHz 802.11g/n OFDM as a result of 802.11b DSSS reported SAR results, the required test configurations in 2.4 GHz 802.11g/n OFDM are identified as Subsequent Test Configurations with respect to the Initial Test Configuration status assigned to 802.11b DSSS.

- If, for a particular antenna or transmit diversity condition supported by the device, no 802.11b DSSS configurations are available, output power should also be measured as a default for 802.11g/n OFDM when SAR Test Exclusion according to KDB 447498 D01 does not apply; these 802.11g/n OFDM configurations are considered the Initial Test Configurations for the respective antenna/transmit diversity condition.

Initial Test Position SAR Test Reduction

For both DSSS and OFDM wireless modes, when an Initial Test Configuration is found to require SAR measurements, an Initial Test Position is established for each applicable exposure configuration (Head, Body, etc.) using either:

- Design implementation details from the manufacturer, or

- Investigative results by the test lab, obtained by performing area scans on the Initial Test Configuration for all applicable test positions and identifying the highest measured SAR from the area scan-only measurements.

Complete SAR scans are then performed on the established Initial Test Position on each exposure configuration, using the Initial Test Configuration. When the reported SAR for this Initial Test Position is: - ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in the exposure configuration and wireless mode combination within the frequency band or aggregated band. - > 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the initial test position to measure the subsequent next closest/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel until the reported SAR is ≤ 0.8 W/kg or all required test positions are tested.

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

12.3. SAR measurement Results

General Notes:

- 1) Per KDB447498 D01v06, all measurement SAR results are scaled to the maximum tune-up tolerance limit to demonstrate compliant.
- 2) Per KDB447498 D01v06, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is ≤ 0.8 W/kg or 2.0W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz. When the maximum output power variation across the required test channels is $>1/2$ dB, instead of the middle channel, the highest output power channel must be used.
- 3) Per KDB865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measure SAR is ≥ 0.8 W/kg; if the deviation among the repeated measurement is $\leq 20\%$, and the measured SAR < 1.45 W/kg, only one repeated measurement is required.
- 4) Per KDB 941225 D06 Hotspot Mode SAR v02:r01, the DUT dimension is bigger than 9cm*5cm, so 10mm is chosen as the test separation distance for Hotspot mode. When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.
- 5) Per KDB648474 D04v01r03, SAR is evaluated without a headset connected to the device. When the standalone reported body-worn SAR is ≤ 1.2 W/kg, no additional SAR evaluations using a headset are required.
- 6) Per KDB865664 D02v01r02, SAR plot is only required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination; plots are also required when the measured SAR is >1.5 W/kg, or >7.0 W/kg for occupational exposure. The published RF exposure KDB procedures may require additional plots; for example, to support SAR to peak location separation ratio test exclusion and/or volume scan plots-processing (refer to appendix B for details).

GSM Notes:

Per KDB941225 D01v03r01, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should

be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

UMTS Notes:

Per KDB 941225 D01v03r01, when maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode..

Per KDB941225 D01v03, 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 TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

LTE Notes:

- 7) 1. Per KDB 941225 D05v02r05, 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.
- 8) 2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 9) 3. Per KDB 941225 D05v02r05, 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.
- 11) 4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not Vs dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.

- 12)5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is > not % 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 D05v02r05, smaller bandwidth SAR testing is not required.
- 13)6. For LTE B41/B5/B12/B17 1 B26 1 B38 1 B71 the maximum 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 middle channel of the group of overlapping channels should be selected for testing.
- 14)7. LTE band 2/4/17/38 SAR test was covered by Band 25/66/12/41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
- 15)a. The maximum output power, including tolerance, for the smaller band is \leq the larger band to qualify for the SAR test exclusion. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

WLAN Notes

Per KDB 248227 D01v02r02, for all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

Per KDB 248227 D01v02r02, for 802.11g/n SAR testing is required. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is > 1.2 W/kg.

Per KDB 248227 D01v02r02, for OFDM transmission configurations in the 2.4 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11g/n mode is used for SAR measurement, on the highest measured output power channel for each frequency band.

12.4. GSM850 SAR results

Configuration	Power Level	Mode	Position	Dist.(mm)	Ch.	Freq.(MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Ant2	Reduce power	GSM (CS)	Left Cheek	0	190	836.6	28.67	29.5	1.21	0.15	0.18
	Reduce power	GSM (CS)	Left Tilt	0	190	836.6	28.67	29.5	1.21	0.14	0.17
	Reduce power	GSM (CS)	Right Cheek	0	190	836.6	28.67	29.5	1.21	0.17	0.21
	Reduce power	GSM (CS)	Right Tilt	0	190	836.6	28.67	29.5	1.21	0.19	0.23
Ant3	original Power	GSM (CS)	Left Cheek	0	190	836.6	33.17	33.5	1.08	0.20	0.22
	original Power	GSM (CS)	Left Tilt	0	190	836.6	33.17	33.5	1.08	0.12	0.13
	original Power	GSM (CS)	Right Cheek	0	190	836.6	33.17	33.5	1.08	0.16	0.17
	original Power	GSM (CS)	Right Tilt	0	190	836.6	33.17	33.5	1.08	0.08	0.09
Ant2	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Front	10	190	836.6	28.29	29.5	1.32	0.06	0.08
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Back	10	190	836.6	28.29	29.5	1.32	0.08	0.10
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Left	10	190	836.6	28.29	29.5	1.32	0.01	0.02
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Right	10	190	836.6	28.29	29.5	1.32	0.05	0.07
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Top	10	190	836.6	28.29	29.5	1.32	0.09	0.12
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Bottom	10	190	836.6	28.29	29.5	1.32	0.01	0.01
Ant3	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Front	10	190	836.6	29.29	30.5	1.32	0.15	0.19
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Back	10	190	836.6	29.29	30.5	1.32	0.20	0.26
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Left	10	190	836.6	29.29	30.5	1.32	0.16	0.21
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Right	10	190	836.6	29.29	30.5	1.32	0.09	0.12
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Top	10	190	836.6	29.29	30.5	1.32	0.01	0.01
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Bottom	10	190	836.6	29.29	30.5	1.32	0.17	0.22
Ant2	Reduce power	GPRS/EDGE (GMSK, 2 Tx slots)	Front	15	190	836.6	30.41	30.5	1.19	0.06	0.06
	Reduce power	GPRS/EDGE (GMSK, 2 Tx slots)	Back	15	190	836.6	30.41	30.5	1.19	0.06	0.06
Ant3	Reduce power	GPRS/EDGE (GMSK, 2 Tx slots)	Front	15	190	836.6	31.00	31.5	1.41	0.14	0.16
	Reduce power	GPRS/EDGE (GMSK, 2 Tx slots)	Back	15	190	836.6	31.00	31.5	1.41	0.19	0.22

12.5. PCS1900 SAR results

Configuration	Power Level	Mode	Position	Dist.(mm)	Ch.	Freq.(MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Ant2	Reduce power	GSM (CS)	Left Cheek	0	661	1880	25.36	26.0	1.16	0.12	0.14
	Reduce power	GSM (CS)	Left Tilt	0	661	1880	25.36	26.0	1.16	0.16	0.19
	Reduce power	GSM (CS)	Right Cheek	0	661	1880	25.36	26.0	1.16	0.17	0.19
	Reduce power	GSM (CS)	Right Tilt	0	661	1880	25.36	26.0	1.16	0.21	0.24
Ant3	original Power	GSM (CS)	Left Cheek	0	661	1880	29.79	30.5	1.18	0.05	0.06
	original Power	GSM (CS)	Left Tilt	0	661	1880	29.79	30.5	1.18	0.01	0.02
	original Power	GSM (CS)	Right Cheek	0	661	1880	29.79	30.5	1.18	0.01	0.01
	original Power	GSM (CS)	Right Tilt	0	661	1880	29.79	30.5	1.18	0.01	0.01
Ant2	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Front	10	661	1880	24.00	24.5	1.12	0.07	0.07
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Back	10	661	1880	24.00	24.5	1.12	0.11	0.12
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Left	10	661	1880	24.00	24.5	1.12	0.01	0.01
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Right	10	661	1880	24.00	24.5	1.12	0.01	0.01
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Top	10	661	1880	24.00	24.5	1.12	0.10	0.11
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Bottom	10	661	1880	24.00	24.5	1.12	0.01	0.01
Ant3	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Front	10	661	1880	24.11	25.5	1.38	0.08	0.11
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Back	10	661	1880	24.11	25.5	1.38	0.12	0.17
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Left	10	661	1880	24.11	25.5	1.38	0.01	0.02
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Right	10	661	1880	24.11	25.5	1.38	0.05	0.06
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Top	10	661	1880	24.11	25.5	1.38	0.01	0.01
	Simultaneous power	GPRS/EDGE (GMSK, 2 Tx slots)	Bottom	10	661	1880	24.11	25.5	1.38	0.17	0.24
Ant2	Reduce power	GPRS/EDGE (GMSK, 2 Tx slots)	Front	15	661	1880	25.36	25.5	1.03	0.04	0.04
	Reduce power	GPRS/EDGE (GMSK, 2 Tx slots)	Back	15	661	1880	25.36	25.5	1.03	0.06	0.06
Ant3	Reduce power	GPRS/EDGE (GMSK, 2 Tx slots)	Front	15	661	1880	26.45	26.5	1.01	0.06	0.06
	Reduce power	GPRS/EDGE (GMSK, 2 Tx slots)	Back	15	661	1880	26.45	26.5	1.01	0.08	0.08

12.6. WCDMA Band II SAR results

Configuration	Power Level	Mode	Position	Dist.(mm)	Ch.	Freq.(MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head											
Ant2	Reduce power	RMC	Left Cheek	0	9400	1880	18.45	19.0	1.14	0.45	0.51
	Reduce power	RMC	Left Tilt	0	9400	1880	18.45	19.0	1.14	0.56	0.64
	Reduce power	RMC	Right Cheek	0	9400	1880	18.45	19.0	1.14	0.60	0.68
	Reduce power	RMC	Right Tilt	0	9400	1880	18.45	19.0	1.14	0.74	0.84
	Reduce power	RMC	Right Tilt	0	9262	1852.4	18.43	19.0	1.14	0.66	0.76
	Reduce power	RMC	Right Tilt	0	9538	1907.6	18.30	19.0	1.17	0.85	1.00
Ant3	original Power	RMC	Left Cheek	0	9400	1880	23.64	24.0	1.09	0.11	0.12
	original Power	RMC	Left Tilt	0	9400	1880	23.64	24.0	1.09	0.10	0.11
	original Power	RMC	Right Cheek	0	9400	1880	23.64	24.0	1.09	0.10	0.11
	original Power	RMC	Right Tilt	0	9400	1880	23.64	24.0	1.09	0.09	0.10
Ant2	Simultaneous power	RMC	Front	10	9400	1880	18.67	19.0	1.08	0.17	0.18
	Simultaneous power	RMC	Back	10	9400	1880	18.67	19.0	1.08	0.26	0.28
	Simultaneous power	RMC	Left	10	9400	1880	18.67	19.0	1.08	0.06	0.07
	Simultaneous power	RMC	Right	10	9400	1880	18.67	19.0	1.08	0.02	0.02
	Simultaneous power	RMC	Top	10	9400	1880	18.67	19.0	1.08	0.29	0.31
	Simultaneous power	RMC	Bottom	10	9400	1880	18.67	19.0	1.08	0.01	0.01
Ant3	Simultaneous power	RMC	Front	10	9400	1880	20.60	21.0	1.10	0.15	0.16
	Simultaneous power	RMC	Back	10	9400	1880	20.60	21.0	1.10	0.23	0.26
	Simultaneous power	RMC	Left	10	9400	1880	20.60	21.0	1.10	0.05	0.06
	Simultaneous power	RMC	Right	10	9400	1880	20.60	21.0	1.10	0.09	0.10
	Simultaneous power	RMC	Top	10	9400	1880	20.60	21.0	1.10	0.01	0.01
	Simultaneous power	RMC	Bottom	10	9400	1880	20.60	21.0	1.10	0.33	0.36
Ant2	Reduce power	RMC	Front	15	9400	1880	19.43	20.0	1.14	0.11	0.13
	Reduce power	RMC	Back	15	9400	1880	19.43	20.0	1.14	0.17	0.19
Ant3	Reduce power	RMC	Front	15	9400	1880	21.43	22.0	1.14	0.11	0.12
	Reduce power	RMC	Back	15	9400	1880	21.43	22.0	1.14	0.15	0.17

12.7. WCDMA Band IV SAR results

Configuration	Power Level	Mode	Position	Dist.(mm)	Ch.	Freq.(MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head											
Ant2	Reduce power	RMC	Left Cheek	0	1412	1732.4	18.51	19.0	1.12	0.25	0.28
	Reduce power	RMC	Left Tilt	0	1412	1732.4	18.51	19.0	1.12	0.32	0.36
	Reduce power	RMC	Right Cheek	0	1412	1732.4	18.51	19.0	1.12	0.31	0.35
	Reduce power	RMC	Right Tilt	0	1412	1732.4	18.51	19.0	1.12	0.40	0.45
Ant3	original Power	RMC	Left Cheek	0	1412	1732.4	23.23	24.0	1.19	0.16	0.19
	original Power	RMC	Left Tilt	0	1412	1732.4	23.23	24.0	1.19	0.08	0.10
	original Power	RMC	Right Cheek	0	1412	1732.4	23.23	24.0	1.19	0.10	0.12
	original Power	RMC	Right Tilt	0	1412	1732.4	23.23	24.0	1.19	0.07	0.09
Ant2	Simultaneous power	RMC	Front	10	1412	1732.4	19.32	20.0	1.17	0.12	0.14
	Simultaneous power	RMC	Back	10	1412	1732.4	19.32	20.0	1.17	0.18	0.21
	Simultaneous power	RMC	Left	10	1412	1732.4	19.32	20.0	1.17	0.01	0.01
	Simultaneous power	RMC	Right	10	1412	1732.4	19.32	20.0	1.17	0.05	0.06
	Simultaneous power	RMC	Top	10	1412	1732.4	19.32	20.0	1.17	0.19	0.22
	Simultaneous power	RMC	Bottom	10	1412	1732.4	19.32	20.0	1.17	0.01	0.01
Ant3	Simultaneous power	RMC	Front	10	1412	1732.4	19.19	20.0	1.21	0.19	0.22
	Simultaneous power	RMC	Back	10	1412	1732.4	19.19	20.0	1.21	0.38	0.46
	Simultaneous power	RMC	Left	10	1412	1732.4	19.19	20.0	1.21	0.01	0.01
	Simultaneous power	RMC	Right	10	1412	1732.4	19.19	20.0	1.21	0.08	0.10
	Simultaneous power	RMC	Top	10	1412	1732.4	19.19	20.0	1.21	0.01	0.01
	Simultaneous power	RMC	Bottom	10	1412	1732.4	19.19	20.0	1.21	0.40	0.48
Ant2	Reduce power	RMC	Front	15	1412	1732.4	20.49	21.0	1.12	0.08	0.09
	Reduce power	RMC	Back	15	1412	1732.4	20.49	21.0	1.12	0.10	0.11
Ant3	Reduce power	RMC	Front	15	1412	1732.4	20.32	21.0	1.17	0.15	0.17
	Reduce power	RMC	Back	15	1412	1732.4	20.32	21.0	1.17	0.27	0.31

12.8. WCDMA Band V SAR results

Configuration	Power Level	Mode	Position	Dist.(mm)	Ch.	Freq.(MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head											
Ant2	Reduce power	RMC	Left Cheek	0	4175	835	20.02	21.0	1.25	0.19	0.24
	Reduce power	RMC	Left Tilt	0	4175	835	20.02	21.0	1.25	0.19	0.24
	Reduce power	RMC	Right Cheek	0	4175	835	20.02	21.0	1.25	0.24	0.30
	Reduce power	RMC	Right Tilt	0	4175	835	20.02	21.0	1.25	0.25	0.31
Ant3	original Power	RMC	Left Cheek	0	4175	835	23.76	24.5	1.19	0.15	0.18
	original Power	RMC	Left Tilt	0	4175	835	23.76	24.5	1.19	0.09	0.11
	original Power	RMC	Right Cheek	0	4175	835	23.76	24.5	1.19	0.13	0.16
	original Power	RMC	Right Tilt	0	4175	835	23.76	24.5	1.19	0.08	0.09
Ant2	Simultaneous power	RMC	Front	10	4175	835	21.97	22.5	1.13	0.06	0.07
	Simultaneous power	RMC	Back	10	4175	835	21.97	22.5	1.13	0.08	0.09
	Simultaneous power	RMC	Left	10	4175	835	21.97	22.5	1.13	0.01	0.01
	Simultaneous power	RMC	Right	10	4175	835	21.97	22.5	1.13	0.05	0.05
	Simultaneous power	RMC	Top	10	4175	835	21.97	22.5	1.13	0.12	0.14
	Simultaneous power	RMC	Bottom	10	4175	835	21.97	22.5	1.13	0.01	0.01
Ant3	Simultaneous power	RMC	Front	10	4175	835	21.72	22.5	1.20	0.09	0.10
	Simultaneous power	RMC	Back	10	4175	835	21.72	22.5	1.20	0.13	0.15
	Simultaneous power	RMC	Left	10	4175	835	21.72	22.5	1.20	0.13	0.15
	Simultaneous power	RMC	Right	10	4175	835	21.72	22.5	1.20	0.07	0.08
	Simultaneous power	RMC	Top	10	4175	835	21.72	22.5	1.20	0.01	0.01
	Simultaneous power	RMC	Bottom	10	4175	835	21.72	22.5	1.20	0.11	0.13
Ant2	Reduce power	RMC	Front	15	4175	835	22.47	23.5	1.27	0.06	0.08
	Reduce power	RMC	Back	15	4175	835	22.47	23.5	1.27	0.07	0.09
Ant3	Reduce power	RMC	Front	15	4175	835	22.57	23.5	1.24	0.11	0.13
	Reduce power	RMC	Back	15	4175	835	22.57	23.5	1.24	0.14	0.17

12.9. LTE Band 2 SAR results

Configuration	Power Level	BW	Modulation	RB Num	RB Start	Position	Dist. mm	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head														
Ant2	Reduce power	20MHz	QPSK	1	50	Left Cheek	0	18900	1880	15.56	16.5	1.24	0.27	0.33
	Reduce power	20MHz	QPSK	1	50	Left Tilt	0	18900	1880	15.56	16.5	1.24	0.32	0.39
	Reduce power	20MHz	QPSK	1	50	Right Cheek	0	18900	1880	15.56	16.5	1.24	0.32	0.40
	Reduce power	20MHz	QPSK	1	50	Right Tilt	0	18900	1880	15.56	16.5	1.24	0.43	0.53
Ant3	original Power	20MHz	QPSK	1	50	Left Cheek	0	18900	1880	22.31	23.5	1.32	0.11	0.14
	original Power	20MHz	QPSK	1	50	Left Tilt	0	18900	1880	22.31	23.5	1.32	0.10	0.13
	original Power	20MHz	QPSK	1	50	Right Cheek	0	18900	1880	22.31	23.5	1.32	0.09	0.12
	original Power	20MHz	QPSK	1	50	Right Tilt	0	18900	1880	22.31	23.5	1.32	0.08	0.10
Ant2	Simultaneous power	20MHz	QPSK	1	50	Front	10	18900	1880	17.56	18.5	1.24	0.16	0.20
	Simultaneous power	20MHz	QPSK	1	50	Back	10	18900	1880	17.56	18.5	1.24	0.25	0.31
	Simultaneous power	20MHz	QPSK	1	50	Left	10	18900	1880	17.56	18.5	1.24	0.01	0.01
	Simultaneous power	20MHz	QPSK	1	50	Right	10	18900	1880	17.56	18.5	1.24	0.04	0.05
	Simultaneous power	20MHz	QPSK	1	50	Top	10	18900	1880	17.56	18.5	1.24	0.26	0.33
	Simultaneous power	20MHz	QPSK	1	50	Bottom	10	18900	1880	17.56	18.5	1.24	0.01	0.01
Ant3	Simultaneous power	20MHz	QPSK	1	50	Front	10	18900	1880	19.32	20.5	1.31	0.11	0.15
	Simultaneous power	20MHz	QPSK	1	50	Back	10	18900	1880	19.32	20.5	1.31	0.17	0.23
	Simultaneous power	20MHz	QPSK	1	50	Left	10	18900	1880	19.32	20.5	1.31	0.01	0.02
	Simultaneous power	20MHz	QPSK	1	50	Right	10	18900	1880	19.32	20.5	1.31	0.07	0.09
	Simultaneous power	20MHz	QPSK	1	50	Top	10	18900	1880	19.32	20.5	1.31	0.01	0.01
	Simultaneous power	20MHz	QPSK	1	50	Bottom	10	18900	1880	19.32	20.5	1.31	0.24	0.31
Ant2	Reduce power	20MHz	QPSK	1	50	Front	15	18900	1880	18.59	19.5	1.23	0.10	0.12
	Reduce power	20MHz	QPSK	1	50	Back	15	18900	1880	18.59	19.5	1.23	0.16	0.19
Ant3	Reduce power	20MHz	QPSK	1	50	Front	15	18900	1880	20.35	21.5	1.30	0.10	0.13
	Reduce power	20MHz	QPSK	1	50	Back	15	18900	1880	20.35	21.5	1.30	0.14	0.18

12.10. LTE Band 4 SAR results

Configuration	Power Level	BW	Modulation	RB Num	RB Start	Position	Dist. mm	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head														
Ant2	Reduce power	20MHz	QPSK	1	50	Left Cheek	0	20175	1732.5	17.67	18.5	1.21	0.24	0.29
	Reduce power	20MHz	QPSK	1	50	Left Tilt	0	20175	1732.5	17.67	18.5	1.21	0.29	0.35
	Reduce power	20MHz	QPSK	1	50	Right Cheek	0	20175	1732.5	17.67	18.5	1.21	0.28	0.34
	Reduce power	20MHz	QPSK	1	50	Right Tilt	0	20175	1732.5	17.67	18.5	1.21	0.36	0.43
Ant3	original Power	20MHz	QPSK	1	50	Left Cheek	0	20175	1732.5	22.38	23.5	1.29	0.12	0.15
	original Power	20MHz	QPSK	1	50	Left Tilt	0	20175	1732.5	22.38	23.5	1.29	0.06	0.08
	original Power	20MHz	QPSK	1	50	Right Cheek	0	20175	1732.5	22.38	23.5	1.29	0.08	0.10
	original Power	20MHz	QPSK	1	50	Right Tilt	0	20175	1732.5	22.38	23.5	1.29	0.06	0.08
	Simultaneous power	20MHz	QPSK	1	50	Front	10	20175	1732.5	18.67	19.5	1.21	0.11	0.13
	Simultaneous power	20MHz	QPSK	1	50	Back	10	20175	1732.5	18.67	19.5	1.21	0.16	0.19
	Simultaneous power	20MHz	QPSK	1	50	Left	10	20175	1732.5	18.67	19.5	1.21	0.05	0.06
	Simultaneous power	20MHz	QPSK	1	50	Right	10	20175	1732.5	18.67	19.5	1.21	0.01	0.02
	Simultaneous power	20MHz	QPSK	1	50	Top	10	20175	1732.5	18.67	19.5	1.21	0.17	0.21
	Simultaneous power	20MHz	QPSK	1	50	Bottom	10	20175	1732.5	18.67	19.5	1.21	0.01	0.01
Ant3	Simultaneous power	20MHz	QPSK	1	50	Front	10	20175	1732.5	18.62	19.5	1.22	0.18	0.21
	Simultaneous power	20MHz	QPSK	1	50	Back	10	20175	1732.5	18.62	19.5	1.22	0.35	0.42
	Simultaneous power	20MHz	QPSK	1	50	Left	10	20175	1732.5	18.62	19.5	1.22	0.01	0.01
	Simultaneous power	20MHz	QPSK	1	50	Right	10	20175	1732.5	18.62	19.5	1.22	0.08	0.09
	Simultaneous power	20MHz	QPSK	1	50	Top	10	20175	1732.5	18.62	19.5	1.22	0.01	0.01
	Simultaneous power	20MHz	QPSK	1	50	Bottom	10	20175	1732.5	18.62	19.5	1.22	0.36	0.44
Ant2	Reduce power	20MHz	QPSK	1	50	Front	15	20175	1732.5	19.36	20.5	1.30	0.07	0.09
	Reduce power	20MHz	QPSK	1	50	Back	15	20175	1732.5	19.36	20.5	1.30	0.09	0.12
Ant3	Reduce power	20MHz	QPSK	1	50	Front	15	20175	1732.5	19.41	20.5	1.29	0.14	0.17
	Reduce power	20MHz	QPSK	1	50	Back	15	20175	1732.5	19.41	20.5	1.29	0.23	0.30

12.11. LTE Band 5 SAR results

Configuration	Power Level	BW	Modulation	RB Num	RB Start	Position	Dist. mm	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head														
Ant2	Reduce power	10MHz	QPSK	1	13	Left Cheek	0	20525	836.5	19.94	21.0	1.28	0.20	0.26
	Reduce power	10MHz	QPSK	1	13	Left Tilt	0	20525	836.5	19.94	21.0	1.28	0.19	0.24
	Reduce power	10MHz	QPSK	1	13	Right Cheek	0	20525	836.5	19.94	21.0	1.28	0.25	0.32
	Reduce power	10MHz	QPSK	1	13	Right Tilt	0	20525	836.5	19.94	21.0	1.28	0.25	0.32
Ant3	original Power	10MHz	QPSK	1	13	Left Cheek	0	20525	836.5	23.21	24.5	1.35	0.16	0.21
	original Power	10MHz	QPSK	1	13	Left Tilt	0	20525	836.5	23.21	24.5	1.35	0.09	0.12
	original Power	10MHz	QPSK	1	13	Right Cheek	0	20525	836.5	23.21	24.5	1.35	0.13	0.17
	original Power	10MHz	QPSK	1	13	Right Tilt	0	20525	836.5	23.21	24.5	1.35	0.07	0.10
	Simultaneous power	10MHz	QPSK	1	13	Front	10	20525	836.5	21.36	22.5	1.30	0.06	0.08
Ant2	Simultaneous power	10MHz	QPSK	1	13	Back	10	20525	836.5	21.36	22.5	1.30	0.08	0.10
	Simultaneous power	10MHz	QPSK	1	13	Left	10	20525	836.5	21.36	22.5	1.30	0.09	0.12
	Simultaneous power	10MHz	QPSK	1	13	Right	10	20525	836.5	21.36	22.5	1.30	0.05	0.06
	Simultaneous power	10MHz	QPSK	1	13	Top	10	20525	836.5	21.36	22.5	1.30	0.12	0.16
	Simultaneous power	10MHz	QPSK	1	13	Bottom	10	20525	836.5	21.36	22.5	1.30	0.01	0.01
Ant3	Simultaneous power	10MHz	QPSK	1	13	Front	10	20525	836.5	21.39	22.5	1.29	0.09	0.11
	Simultaneous power	10MHz	QPSK	1	13	Back	10	20525	836.5	21.39	22.5	1.29	0.13	0.16
	Simultaneous power	10MHz	QPSK	1	13	Left	10	20525	836.5	21.39	22.5	1.29	0.12	0.16
	Simultaneous power	10MHz	QPSK	1	13	Right	10	20525	836.5	21.39	22.5	1.29	0.07	0.09
	Simultaneous power	10MHz	QPSK	1	13	Top	10	20525	836.5	21.39	22.5	1.29	0.01	0.01
	Simultaneous power	10MHz	QPSK	1	13	Bottom	10	20525	836.5	21.39	22.5	1.29	0.10	0.13
Ant2	Reduce power	10MHz	QPSK	1	13	Front	15	20525	836.5	22.36	23.5	1.30	0.06	0.08
	Reduce power	10MHz	QPSK	1	13	Back	15	20525	836.5	22.36	23.5	1.30	0.07	0.09
Ant3	Reduce power	10MHz	QPSK	1	13	Front	15	20525	836.5	22.32	23.5	1.31	0.11	0.14
	Reduce power	10MHz	QPSK	1	13	Back	15	20525	836.5	22.32	23.5	1.31	0.14	0.18

12.12. LTE Band 7 SAR results

Configuration	Power Level	BW	Modulation	RB Num	RB Start	Position	Dist. mm	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head														
Ant2	Reduce power	20MHz	QPSK	1	50	Left Cheek	0	21100	2535	11.26	12.5	1.33	0.12	0.16
	Reduce power	20MHz	QPSK	1	50	Left Tilt	0	21100	2535	11.26	12.5	1.33	0.17	0.23
	Reduce power	20MHz	QPSK	1	50	Right Cheek	0	21100	2535	11.26	12.5	1.33	0.31	0.42
	Reduce power	20MHz	QPSK	1	50	Right Tilt	0	21100	2535	11.26	12.5	1.33	0.41	0.55
Ant3	original Power	20MHz	QPSK	1	50	Left Cheek	0	21100	2535	22.44	23.5	1.28	0.27	0.35
	original Power	20MHz	QPSK	1	50	Left Tilt	0	21100	2535	22.44	23.5	1.28	0.19	0.24
	original Power	20MHz	QPSK	1	50	Right Cheek	0	21100	2535	22.44	23.5	1.28	0.47	0.60
	original Power	20MHz	QPSK	1	50	Right Tilt	0	21100	2535	22.44	23.5	1.28	0.29	0.38
	Simultaneous power	20MHz	QPSK	1	50	Front	10	21100	2535	13.26	14.5	1.33	0.10	0.14
Ant2	Simultaneous power	20MHz	QPSK	1	50	Back	10	21100	2535	13.26	14.5	1.33	0.22	0.30
	Simultaneous power	20MHz	QPSK	1	50	Left	10	21100	2535	13.26	14.5	1.33	0.06	0.08
	Simultaneous power	20MHz	QPSK	1	50	Right	10	21100	2535	13.26	14.5	1.33	0.01	0.02
	Simultaneous power	20MHz	QPSK	1	50	Top	10	21100	2535	13.26	14.5	1.33	0.30	0.39
	Simultaneous power	20MHz	QPSK	1	50	Bottom	10	21100	2535	13.26	14.5	1.33	0.05	0.06
Ant3	Simultaneous power	20MHz	QPSK	1	50	Front	10	21100	2535	19.35	20.5	1.30	0.24	0.31
	Simultaneous power	20MHz	QPSK	1	50	Back	10	21100	2535	19.35	20.5	1.30	0.30	0.38
	Simultaneous power	20MHz	QPSK	1	50	Left	10	21100	2535	19.35	20.5	1.30	0.09	0.12
	Simultaneous power	20MHz	QPSK	1	50	Right	10	21100	2535	19.35	20.5	1.30	0.19	0.25
	Simultaneous power	20MHz	QPSK	1	50	Top	10	21100	2535	19.35	20.5	1.30	0.01	0.02
	Simultaneous power	20MHz	QPSK	1	50	Bottom	10	21100	2535	19.35	20.5	1.30	0.24	0.31
Ant2	Reduce power	20MHz	QPSK	1	50	Front	15	21100	2535	14.32	15.5	1.31	0.06	0.08
	Reduce power	20MHz	QPSK	1	50	Back	15	21100	2535	14.32	15.5	1.31	0.13	0.17
Ant3	Reduce power	20MHz	QPSK	1	50	Front	15	21100	2535	20.37	21.5	1.30	0.20	0.26
	Reduce power	20MHz	QPSK	1	50	Back	15	21100	2535	20.37	21.5	1.30	0.20	0.26

12.13. LTE Band 12 SAR results

Configuration	Power Level	BW	Modulation	RB Num	RB Start	Position	Dist. mm	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head														
Ant2	original Power	10MHz	QPSK	1	13	Left Cheek	0	23090	707	23.40	24.5	1.29	0.05	0.07
	original Power	10MHz	QPSK	1	13	Left Tilt	0	23090	707	23.40	24.5	1.29	0.06	0.07
	original Power	10MHz	QPSK	1	13	Right Cheek	0	23090	707	23.40	24.5	1.29	0.07	0.10
	original Power	10MHz	QPSK	1	13	Right Tilt	0	23090	707	23.40	24.5	1.29	0.08	0.10
Ant3	original Power	10MHz	QPSK	1	13	Left Cheek	0	23090	707	23.45	24.5	1.27	0.10	0.13
	original Power	10MHz	QPSK	1	13	Left Tilt	0	23090	707	23.45	24.5	1.27	0.07	0.08
	original Power	10MHz	QPSK	1	13	Right Cheek	0	23090	707	23.45	24.5	1.27	0.11	0.13
	original Power	10MHz	QPSK	1	13	Right Tilt	0	23090	707	23.45	24.5	1.27	0.06	0.08
	Simultaneous power	10MHz	QPSK	1	13	Front	10	23090	707	23.40	24.5	1.29	0.01	0.01
Ant2	Simultaneous power	10MHz	QPSK	1	13	Back	10	23090	707	23.40	24.5	1.29	0.04	0.05
	Simultaneous power	10MHz	QPSK	1	13	Left	10	23090	707	23.40	24.5	1.29	0.17	0.22
	Simultaneous power	10MHz	QPSK	1	13	Right	10	23090	707	23.40	24.5	1.29	0.02	0.02
	Simultaneous power	10MHz	QPSK	1	13	Top	10	23090	707	23.40	24.5	1.29	0.05	0.06
	Simultaneous power	10MHz	QPSK	1	13	Bottom	10	23090	707	23.40	24.5	1.29	0.01	0.01
Ant3	Simultaneous power	10MHz	QPSK	1	13	Front	10	23090	707	23.45	24.5	1.27	0.13	0.16
	Simultaneous power	10MHz	QPSK	1	13	Back	10	23090	707	23.45	24.5	1.27	0.19	0.24
	Simultaneous power	10MHz	QPSK	1	13	Left	10	23090	707	23.45	24.5	1.27	0.24	0.30
	Simultaneous power	10MHz	QPSK	1	13	Right	10	23090	707	23.45	24.5	1.27	0.13	0.17
	Simultaneous power	10MHz	QPSK	1	13	Top	10	23090	707	23.45	24.5	1.27	0.02	0.03
	Simultaneous power	10MHz	QPSK	1	13	Bottom	10	23090	707	23.45	24.5	1.27	0.08	0.10
Ant2	original Power	10MHz	QPSK	1	13	Front	15	23090	707	23.40	24.5	1.29	0.01	0.02
	original Power	10MHz	QPSK	1	13	Back	15	23090	707	23.40	24.5	1.29	0.05	0.07
Ant3	original Power	10MHz	QPSK	1	13	Front	15	23090	707	23.45	24.5	1.27	0.18	0.23
	original Power	10MHz	QPSK	1	13	Back	15	23090	707	23.45	24.5	1.27	0.25	0.32

12.14. LTE Band 13 SAR results

Configuration	Power Level	BW	Modulation	RB Num	RB Start	Position	Dist. mm	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head														
Ant2	original Power	10MHz	QPSK	1	13	Left Cheek	0	23230	782	23.30	24.5	1.32	0.16	0.21
	original Power	10MHz	QPSK	1	13	Left Tilt	0	23230	782	23.30	24.5	1.32	0.15	0.20
	original Power	10MHz	QPSK	1	13	Right Cheek	0	23230	782	23.30	24.5	1.32	0.21	0.28
	original Power	10MHz	QPSK	1	13	Right Tilt	0	23230	782	23.30	24.5	1.32	0.20	0.27
Ant3	original Power	10MHz	QPSK	1	13	Left Cheek	0	23230	782	23.23	24.5	1.34	0.12	0.16
	original Power	10MHz	QPSK	1	13	Left Tilt	0	23230	782	23.23	24.5	1.34	0.08	0.11
	original Power	10MHz	QPSK	1	13	Right Cheek	0	23230	782	23.23	24.5	1.34	0.10	0.14
	original Power	10MHz	QPSK	1	13	Right Tilt	0	23230	782	23.23	24.5	1.34	0.07	0.09
	Simultaneous power	10MHz	QPSK	1	13	Front	10	23230	782	23.30	24.5	1.32	0.01	0.01
Ant2	Simultaneous power	10MHz	QPSK	1	13	Back	10	23230	782	23.30	24.5	1.32	0.06	0.07
	Simultaneous power	10MHz	QPSK	1	13	Left	10	23230	782	23.30	24.5	1.32	0.12	0.16
	Simultaneous power	10MHz	QPSK	1	13	Right	10	23230	782	23.30	24.5	1.32	0.01	0.01
	Simultaneous power	10MHz	QPSK	1	13	Top	10	23230	782	23.30	24.5	1.32	0.07	0.09
	Simultaneous power	10MHz	QPSK	1	13	Bottom	10	23230	782	23.30	24.5	1.32	0.01	0.01
Ant3	Simultaneous power	10MHz	QPSK	1	13	Front	10	23230	782	23.23	24.5	1.34	0.10	0.13
	Simultaneous power	10MHz	QPSK	1	13	Back	10	23230	782	23.23	24.5	1.34	0.15	0.20
	Simultaneous power	10MHz	QPSK	1	13	Left	10	23230	782	23.23	24.5	1.34	0.20	0.26
	Simultaneous power	10MHz	QPSK	1	13	Right	10	23230	782	23.23	24.5	1.34	0.09	0.12
	Simultaneous power	10MHz	QPSK	1	13	Top	10	23230	782	23.23	24.5	1.34	0.01	0.02
	Simultaneous power	10MHz	QPSK	1	13	Bottom	10	23230	782	23.23	24.5	1.34	0.13	0.17
Ant2	original Power	10MHz	QPSK	1	13	Front	15	23230	782	23.30	24.5	1.32	0.04	0.06
	original Power	10MHz	QPSK	1	13	Back	15	23230	782	23.30	24.5	1.32	0.05	0.06
Ant3	original Power	10MHz	QPSK	1	13	Front	15	23230	782	23.23	24.5	1.34	0.14	0.19
	original Power	10MHz	QPSK	1	13	Back	15	23230	782	23.23	24.5	1.34	0.19	0.25

12.15. LTE Band 17 SAR results

Configuration	Power Level	BW	Modulation	RB Num	RB Start	Position	Dist. mm	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head														
Ant2	original Power	10MHz	QPSK	1	13	Left Cheek	0	23790	710	23.38	24.5	1.29	0.06	0.07
	original Power	10MHz	QPSK	1	13	Left Tilt	0	23790	710	23.38	24.5	1.29	0.06	0.08
	original Power	10MHz	QPSK	1	13	Right Cheek	0	23790	710	23.38	24.5	1.29	0.08	0.10
	original Power	10MHz	QPSK	1	13	Right Tilt	0	23790	710	23.38	24.5	1.29	0.08	0.11
Ant3	original Power	10MHz	QPSK	1	13	Left Cheek	0	23790	710	22.71	24.5	1.51	0.10	0.15
	original Power	10MHz	QPSK	1	13	Left Tilt	0	23790	710	22.71	24.5	1.51	0.07	0.10
	original Power	10MHz	QPSK	1	13	Right Cheek	0	23790	710	22.71	24.5	1.51	0.10	0.15
	original Power	10MHz	QPSK	1	13	Right Tilt	0	23790	710	22.71	24.5	1.51	0.06	0.10
Ant2	Simultaneous power	10MHz	QPSK	1	13	Front	10	23790	710	23.38	24.5	1.29	0.01	0.02
	Simultaneous power	10MHz	QPSK	1	13	Back	10	23790	710	23.38	24.5	1.29	0.06	0.08
	Simultaneous power	10MHz	QPSK	1	13	Left	10	23790	710	23.38	24.5	1.29	0.17	0.22
	Simultaneous power	10MHz	QPSK	1	13	Right	10	23790	710	23.38	24.5	1.29	0.01	0.01
Ant2	Simultaneous power	10MHz	QPSK	1	13	Top	10	23790	710	23.38	24.5	1.29	0.08	0.10
	Simultaneous power	10MHz	QPSK	1	13	Bottom	10	23790	710	23.38	24.5	1.29	0.01	0.01
	Simultaneous power	10MHz	QPSK	1	13	Front	10	23790	710	22.71	24.5	1.51	0.13	0.19
	Simultaneous power	10MHz	QPSK	1	13	Back	10	23790	710	22.71	24.5	1.51	0.19	0.29
Ant3	Simultaneous power	10MHz	QPSK	1	13	Left	10	23790	710	22.71	24.5	1.51	0.26	0.39
	Simultaneous power	10MHz	QPSK	1	13	Right	10	23790	710	22.71	24.5	1.51	0.15	0.23
	Simultaneous power	10MHz	QPSK	1	13	Top	10	23790	710	22.71	24.5	1.51	0.01	0.02
	Simultaneous power	10MHz	QPSK	1	13	Bottom	10	23790	710	22.71	24.5	1.51	0.08	0.11
Ant2	original Power	10MHz	QPSK	1	13	Front	15	23790	710	23.38	24.5	1.29	0.03	0.03
	original Power	10MHz	QPSK	1	13	Back	15	23790	710	23.38	24.5	1.29	0.04	0.06
Ant3	original Power	10MHz	QPSK	1	13	Front	15	23790	710	22.71	24.5	1.51	0.18	0.27
	original Power	10MHz	QPSK	1	13	Back	15	23790	710	22.71	24.5	1.51	0.25	0.38

12.16. LTE Band 38 SAR results

Configuration	Power Level	BW	Modulation	RB Num	RB Start	Position	Dist. mm	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head														
Ant2	Reduce power	20MHz	QPSK	1	50	Left Cheek	0	38000	2595	15.23	16.5	1.34	0.15	0.20
	Reduce power	20MHz	QPSK	1	50	Left Tilt	0	38000	2595	15.23	16.5	1.34	0.19	0.25
	Reduce power	20MHz	QPSK	1	50	Right Cheek	0	38000	2595	15.23	16.5	1.34	0.40	0.54
	Reduce power	20MHz	QPSK	1	50	Right Tilt	0	38000	2595	15.23	16.5	1.34	0.51	0.68
Ant3	original Power	20MHz	QPSK	1	50	Left Cheek	0	38000	2595	22.71	24.0	1.35	0.18	0.24
	original Power	20MHz	QPSK	1	50	Left Tilt	0	38000	2595	22.71	24.0	1.35	0.15	0.20
	original Power	20MHz	QPSK	1	50	Right Cheek	0	38000	2595	22.71	24.0	1.35	0.31	0.42
	original Power	20MHz	QPSK	1	50	Right Tilt	0	38000	2595	22.71	24.0	1.35	0.17	0.23
	Simultaneous power	20MHz	QPSK	1	50	Front	10	38000	2595	16.65	18.0	1.36	0.10	0.13
Ant2	Simultaneous power	20MHz	QPSK	1	50	Back	10	38000	2595	16.65	18.0	1.36	0.22	0.30
	Simultaneous power	20MHz	QPSK	1	50	Left	10	38000	2595	16.65	18.0	1.36	0.03	0.04
	Simultaneous power	20MHz	QPSK	1	50	Right	10	38000	2595	16.65	18.0	1.36	0.02	0.03
	Simultaneous power	20MHz	QPSK	1	50	Top	10	38000	2595	16.65	18.0	1.36	0.23	0.32
	Simultaneous power	20MHz	QPSK	1	50	Bottom	10	38000	2595	16.65	18.0	1.36	0.02	0.02
Ant3	Simultaneous power	20MHz	QPSK	1	50	Front	10	38000	2595	18.73	20.0	1.34	0.11	0.15
	Simultaneous power	20MHz	QPSK	1	50	Back	10	38000	2595	18.73	20.0	1.34	0.14	0.18
	Simultaneous power	20MHz	QPSK	1	50	Left	10	38000	2595	18.73	20.0	1.34	0.04	0.05
	Simultaneous power	20MHz	QPSK	1	50	Right	10	38000	2595	18.73	20.0	1.34	0.11	0.15
	Simultaneous power	20MHz	QPSK	1	50	Top	10	38000	2595	18.73	20.0	1.34	0.02	0.03
	Simultaneous power	20MHz	QPSK	1	50	Bottom	10	38000	2595	18.73	20.0	1.34	0.12	0.16
Ant2	Reduce power	20MHz	QPSK	1	50	Front	15	38000	2595	16.71	18.0	1.35	0.05	0.06
	Reduce power	20MHz	QPSK	1	50	Back	15	38000	2595	16.71	18.0	1.35	0.10	0.13
Ant3	Reduce power	20MHz	QPSK	1	50	Front	15	38000	2595	19.86	21.0	1.30	0.09	0.12
	Reduce power	20MHz	QPSK	1	50	Back	15	38000	2595	19.86	21.0	1.30	0.10	0.12

12.17. LTE Band 41 SAR results

Configuration	Power Level	BW	Modulation	RB Num	RB Start	Position	Dist. mm	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)	
Head															
Ant2	Reduce power	20MHz	QPSK	1	50	Left Cheek	0	40640	2595	13.93	15.0	1.28	0.10	0.13	
	Reduce power	20MHz	QPSK	1	50	Left Tilt	0	40640	2595	13.93	15.0	1.28	0.13	0.17	
	Reduce power	20MHz	QPSK	1	50	Right Cheek	0	40640	2595	13.93	15.0	1.28	0.29	0.37	
	Reduce power	20MHz	QPSK	1	50	Right Tilt	0	40640	2595	13.93	15.0	1.28	0.36	0.46	
Ant3	original Power	20MHz	QPSK	1	50	Left Cheek	0	40640	2595	23.01	24.0	1.26	0.18	0.23	
	original Power	20MHz	QPSK	1	50	Left Tilt	0	40640	2595	23.01	24.0	1.26	0.15	0.19	
	original Power	20MHz	QPSK	1	50	Right Cheek	0	40640	2595	23.01	24.0	1.26	0.32	0.40	
	original Power	20MHz	QPSK	1	50	Right Tilt	0	40640	2595	23.01	24.0	1.26	0.18	0.22	
Ant2	Simultaneous power	20MHz	QPSK	1	50	Front	10	40640	2595	14.83	16.0	1.31	0.06	0.08	
	Simultaneous power	20MHz	QPSK	1	50	Back	10	40640	2595	14.83	16.0	1.31	0.14	0.18	
	Simultaneous power	20MHz	QPSK	1	50	Left	10	40640	2595	14.83	16.0	1.31	0.04	0.05	
	Simultaneous power	20MHz	QPSK	1	50	Right	10	40640	2595	14.83	16.0	1.31	0.02	0.03	
	Simultaneous power	20MHz	QPSK	1	50	Top	10	40640	2595	14.83	16.0	1.31	0.15	0.20	
	Simultaneous power	20MHz	QPSK	1	50	Bottom	10	40640	2595	14.83	16.0	1.31	0.01	0.02	
	Ant3	Simultaneous power	20MHz	QPSK	1	50	Front	10	40640	2595	18.55	19.5	1.24	0.10	0.12
		Simultaneous power	20MHz	QPSK	1	50	Back	10	40640	2595	18.55	19.5	1.24	0.13	0.16
Simultaneous power		20MHz	QPSK	1	50	Left	10	40640	2595	18.55	19.5	1.24	0.03	0.04	
Simultaneous power		20MHz	QPSK	1	50	Right	10	40640	2595	18.55	19.5	1.24	0.10	0.13	
Simultaneous power		20MHz	QPSK	1	50	Top	10	40640	2595	18.55	19.5	1.24	0.02	0.03	
Simultaneous power		20MHz	QPSK	1	50	Bottom	10	40640	2595	18.55	19.5	1.24	0.11	0.13	
Ant2	Reduce power	20MHz	QPSK	1	50	Front	15	40640	2595	16.88	18.0	1.29	0.05	0.06	
	Reduce power	20MHz	QPSK	1	50	Back	15	40640	2595	16.88	18.0	1.29	0.10	0.12	
Ant3	Reduce power	20MHz	QPSK	1	50	Front	15	40640	2595	19.58	20.5	1.24	0.08	0.10	
	Reduce power	20MHz	QPSK	1	50	Back	15	40640	2595	19.58	20.5	1.24	0.08	0.10	

12.18. LTE Band 66 SAR results

Configuration	Power Level	BW	Modulation	RB Num	RB Start	Position	Dist. mm	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)	
Head															
Ant2	Reduce power	20MHz	QPSK	1	50	Left Cheek	0	132322	1745	17.96	19.0	1.27	0.29	0.36	
	Reduce power	20MHz	QPSK	1	50	Left Tilt	0	132322	1745	17.96	19.0	1.27	0.35	0.44	
	Reduce power	20MHz	QPSK	1	50	Right Cheek	0	132322	1745	17.96	19.0	1.27	0.35	0.44	
	Reduce power	20MHz	QPSK	1	50	Right Tilt	0	132322	1745	17.96	19.0	1.27	0.44	0.56	
Ant3	original Power	20MHz	QPSK	1	50	Left Cheek	0	132322	1745	22.75	24.0	1.33	0.17	0.23	
	original Power	20MHz	QPSK	1	50	Left Tilt	0	132322	1745	22.75	24.0	1.33	0.08	0.11	
	original Power	20MHz	QPSK	1	50	Right Cheek	0	132322	1745	22.75	24.0	1.33	0.10	0.14	
	original Power	20MHz	QPSK	1	50	Right Tilt	0	132322	1745	22.75	24.0	1.33	0.07	0.10	
Ant2	Simultaneous power	20MHz	QPSK	1	50	Front	10	132322	1745	19.10	20.0	1.23	0.13	0.16	
	Simultaneous power	20MHz	QPSK	1	50	Back	10	132322	1745	19.10	20.0	1.23	0.20	0.25	
	Simultaneous power	20MHz	QPSK	1	50	Left	10	132322	1745	19.10	20.0	1.23	0.07	0.08	
	Simultaneous power	20MHz	QPSK	1	50	Right	10	132322	1745	19.10	20.0	1.23	0.02	0.03	
	Simultaneous power	20MHz	QPSK	1	50	Top	10	132322	1745	19.10	20.0	1.23	0.23	0.28	
	Simultaneous power	20MHz	QPSK	1	50	Bottom	10	132322	1745	19.10	20.0	1.23	0.02	0.02	
	Ant3	Simultaneous power	20MHz	QPSK	1	50	Front	10	132322	1745	19.71	21.0	1.35	0.26	0.35
		Simultaneous power	20MHz	QPSK	1	50	Back	10	132322	1745	19.71	21.0	1.35	0.50	0.67
Simultaneous power		20MHz	QPSK	1	50	Left	10	132322	1745	19.71	21.0	1.35	0.05	0.06	
Simultaneous power		20MHz	QPSK	1	50	Right	10	132322	1745	19.71	21.0	1.35	0.11	0.15	
Simultaneous power		20MHz	QPSK	1	50	Top	10	132322	1745	19.71	21.0	1.35	0.02	0.02	
Simultaneous power		20MHz	QPSK	1	50	Bottom	10	132322	1745	19.71	21.0	1.35	0.55	0.74	
Ant2	Reduce power	20MHz	QPSK	1	50	Front	15	132322	1745	20.08	21.0	1.24	0.08	0.10	
	Reduce power	20MHz	QPSK	1	50	Back	15	132322	1745	20.08	21.0	1.24	0.12	0.14	
Ant3	Reduce power	20MHz	QPSK	1	50	Front	15	132322	1745	20.76	22.0	1.33	0.21	0.27	
	Reduce power	20MHz	QPSK	1	50	Back	15	132322	1745	20.76	22.0	1.33	0.35	0.46	

12.19. 2.4GWi-Fi SAR results

Config	Mode	Power Level	Position	Dist. (mm)	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head											
Ant0	802.11g	Reduce power	Left Cheek	0	7	2442	16.18	17.5	1.36	0.50	0.68
	802.11g	Reduce power	Left Tilt	0	7	2442	16.18	17.5	1.36	0.40	0.55
	802.11g	Reduce power	Right Cheek	0	7	2442	16.18	17.5	1.36	0.22	0.29
	802.11g	Reduce power	Right Tilt	0	7	2442	16.18	17.5	1.36	0.26	0.35
	802.11g	Reduce power	Front	10	7	2442	17.11	18.0	1.23	0.20	0.24
	802.11g	Reduce power	Back	10	7	2442	17.11	18.0	1.23	0.29	0.35
	802.11g	Reduce power	Left	10	7	2442	17.11	18.0	1.23	0.04	0.05
	802.11g	Reduce power	Right	10	7	2442	17.11	18.0	1.23	0.23	0.28
	802.11g	Reduce power	Top	10	7	2442	17.11	18.0	1.23	0.16	0.19
	802.11g	Reduce power	Bottom	10	7	2442	17.11	18.0	1.23	0.04	0.05
	802.11g	Reduce power	Front	15	7	2442	17.11	18.0	1.23	0.11	0.13
	802.11g	Reduce power	Back	15	7	2442	17.11	18.0	1.23	0.13	0.16

12.20. 5.2GWi-Fi SAR results

Config	Mode	Power Level	Position	Dist. (mm)	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head											
Ant0	802.11a	Reduce power	Left Cheek	0	40	5200	15.05	16.5	1.40	0.37	0.52
	802.11a	Reduce power	Left Tilt	0	40	5200	15.05	16.5	1.40	0.34	0.48
	802.11a	Reduce power	Right Cheek	0	40	5200	15.05	16.5	1.40	0.18	0.25
	802.11a	Reduce power	Right Tilt	0	40	5200	15.05	16.5	1.40	0.23	0.32
	802.11a	Reduce power	Front	10	40	5200	15.99	17.5	1.42	0.14	0.20
	802.11a	Reduce power	Back	10	40	5200	15.99	17.5	1.42	0.34	0.48
	802.11a	Reduce power	Left	10	40	5200	15.99	17.5	1.42	0.09	0.12
	802.11a	Reduce power	Right	10	40	5200	15.99	17.5	1.42	0.28	0.40
	802.11a	Reduce power	Top	10	40	5200	15.99	17.5	1.42	0.24	0.34
	802.11a	Reduce power	Bottom	10	40	5200	15.99	17.5	1.42	0.07	0.10
	802.11a	Reduce power	Front	15	40	5200	15.99	17.5	1.42	0.07	0.09
	802.11a	Reduce power	Back	15	40	5200	15.99	17.5	1.42	0.20	0.29

12.21. 5.3GWi-Fi SAR results

Config	Mode	Power Level	Position	Dist. (mm)	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head											
Ant0	802.11a	Reduce power	Left Cheek	0	56	5280	15.15	16.5	1.36	0.42	0.58
	802.11a	Reduce power	Left Tilt	0	56	5280	15.15	16.5	1.36	0.40	0.54
	802.11a	Reduce power	Right Cheek	0	56	5280	15.15	16.5	1.36	0.22	0.30
	802.11a	Reduce power	Right Tilt	0	56	5280	15.15	16.5	1.36	0.27	0.37
	802.11a	Reduce power	Front	10	56	5280	15.96	17.5	1.43	0.10	0.14
	802.11a	Reduce power	Back	10	56	5280	15.96	17.5	1.43	0.33	0.48
	802.11a	Reduce power	Left	10	56	5280	15.96	17.5	1.43	0.07	0.11
	802.11a	Reduce power	Right	10	56	5280	15.96	17.5	1.43	0.29	0.41
	802.11a	Reduce power	Top	10	56	5280	15.96	17.5	1.43	0.26	0.37
	802.11a	Reduce power	Bottom	10	56	5280	15.96	17.5	1.43	0.07	0.10
	802.11a	Reduce power	Front	15	56	5280	15.96	17.5	1.43	0.06	0.09
	802.11a	Reduce power	Back	15	56	5280	15.96	17.5	1.43	0.23	0.32

12.22. 5.6GWi-Fi SAR results

Config	Mode	Power Level	Position	Dist. (mm)	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head											
Ant0	802.11a	Reduce power	Left Cheek	0	120	5600	14.12	15.5	1.37	0.52	0.72
	802.11a	Reduce power	Left Tilt	0	120	5600	14.12	15.5	1.37	0.47	0.65
	802.11a	Reduce power	Right Cheek	0	120	5600	14.12	15.5	1.37	0.10	0.13
	802.11a	Reduce power	Right Tilt	0	120	5600	14.12	15.5	1.37	0.12	0.17
	802.11a	Reduce power	Front	10	120	5600	15.21	16.5	1.35	0.16	0.21
	802.11a	Reduce power	Back	10	120	5600	15.21	16.5	1.35	0.52	0.70
	802.11a	Reduce power	Left	10	120	5600	15.21	16.5	1.35	0.12	0.16
	802.11a	Reduce power	Right	10	120	5600	15.21	16.5	1.35	0.62	0.83
	802.11a	Reduce power	Top	10	120	5600	15.21	16.5	1.35	0.33	0.45
	802.11a	Reduce power	Bottom	10	120	5600	15.21	16.5	1.35	0.07	0.09
	802.11a	Reduce power	Right	10	100	5500	14.48	16.0	1.42	0.58	0.82
	802.11a	Reduce power	Right	10	140	5700	13.13	14.5	1.37	0.56	0.77
	802.11a	Reduce power	Front	15	120	5600	15.21	16.5	1.35	0.10	0.13
	802.11a	Reduce power	Back	15	120	5600	15.21	16.5	1.35	0.37	0.50

12.23. 5.8GWi-Fi SAR results

Config	Mode	Power Level	Position	Dist. (mm)	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head											
Ant0	802.11a	Reduce power	Left Cheek	0	157	5785	14.46	16.0	1.43	0.51	0.73
	802.11a	Reduce power	Left Tilt	0	157	5785	14.46	16.0	1.43	0.45	0.64
	802.11a	Reduce power	Right Cheek	0	157	5785	14.46	16.0	1.43	0.11	0.16
	802.11a	Reduce power	Right Tilt	0	157	5785	14.46	16.0	1.43	0.13	0.18
	802.11a	Reduce power	Front	10	157	5785	15.00	16.5	1.41	0.15	0.21
	802.11a	Reduce power	Back	10	157	5785	15.00	16.5	1.41	0.54	0.76
	802.11a	Reduce power	Left	10	157	5785	15.00	16.5	1.41	0.17	0.25
	802.11a	Reduce power	Right	10	157	5785	15.00	16.5	1.41	0.54	0.77
	802.11a	Reduce power	Top	10	157	5785	15.00	16.5	1.41	0.26	0.37
	802.11a	Reduce power	Bottom	10	157	5785	15.00	16.5	1.41	0.06	0.08
	802.11a	Reduce power	Front	15	157	5785	15.00	16.5	1.41	0.18	0.25
	802.11a	Reduce power	Back	15	157	5785	15.00	16.5	1.41	0.33	0.47

12.24. BT SAR results

Config	Mode	Power Level	Position	Dist. (mm)	Ch.	Freq. (MHz)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Meas SAR (W/kg)	1g Scaled SAR (W/kg)
Head											
Ant0	BT	original Power	Left Cheek	0	39	2441	12.31	14.0	1.48	0.12	0.17
	BT	original Power	Left Tilt	0	39	2441	12.31	14.0	1.48	0.09	0.14
	BT	original Power	Right Cheek	0	39	2441	12.31	14.0	1.48	0.05	0.07
	BT	original Power	Right Tilt	0	39	2441	12.31	14.0	1.48	0.06	0.09
	BT	original Power	Front	10	39	2441	12.31	14.0	1.48	0.01	0.02
	BT	original Power	Back	10	39	2441	12.31	14.0	1.48	0.02	0.03
	BT	original Power	Left	10	39	2441	12.31	14.0	1.48	0.01	0.01
	BT	original Power	Right	10	39	2441	12.31	14.0	1.48	0.01	0.01
	BT	original Power	Top	10	39	2441	12.31	14.0	1.48	0.01	0.01
	BT	original Power	Bottom	10	39	2441	12.31	14.0	1.48	0.01	0.01
	BT	original Power	Front	15	39	2441	12.31	14.0	1.48	0.01	0.01
	BT	original Power	Back	15	39	2441	12.31	14.0	1.48	0.01	0.02

12.25. Repeated SAR results

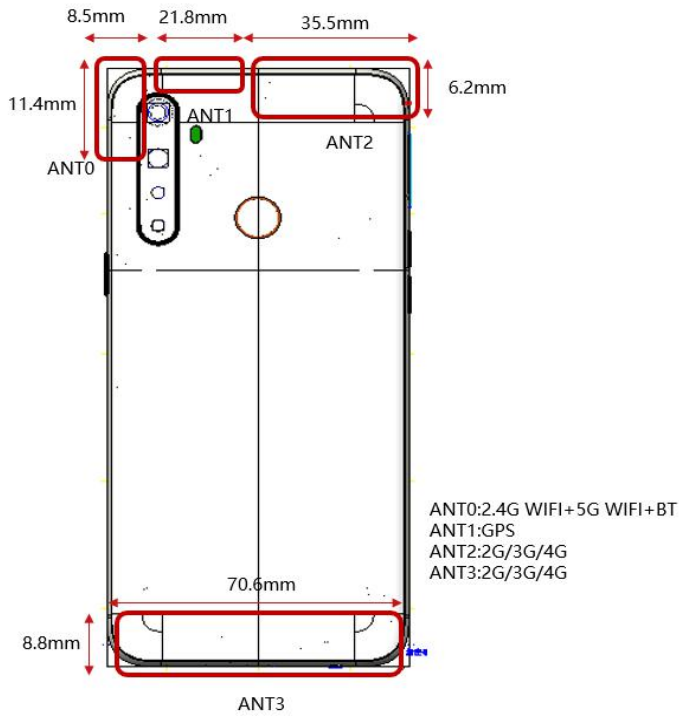
Remark:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
3. The ratio is the difference in percentage between original and repeated measured SAR.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Measured SAR (W/kg)	Reported SAR (W/kg)
WCDMA Band II	RMC	Right Tilt	9538	1907.6	18.30	19.0	1.17	0.83	0.95

13. EXPOSURE POSITIONS CONSIDERATION

13.1. Multiple Transmitter Evaluation



The reference plane is the Back side

Antennas	Distance of the Antenna to the EUT surface edge					
	Front	Back	Left	Right	Top	Bottom
ANT0	≤25mm	≤25mm	≤25mm	>25mm	≤25mm	>25mm
ANT2	≤25mm	≤25mm	>25mm	≤25mm	≤25mm	>25mm
ANT3	≤25mm	≤25mm	≤25mm	≤25mm	>25mm	≤25mm

Antennas	Positions for SAR tests; Hotspot mode					
	Front	Back	Left	Right	Top	Bottom
ANT0	Yes	Yes	Yes	No	Yes	No
ANT2	Yes	Yes	No	Yes	Yes	No
ANT3	Yes	Yes	Yes	Yes	No	Yes

13.2. Simultaneous Transmission Possibilities

The Simultaneous Transmission Possibilities of this device are as below:

No.	Configuration	Head	Body
1	WIFI5G+BT	Yes	Yes
2.	WWAN+WIFI2.4G	Yes	Yes
3.	WWAN+BT	Yes	Yes
4.	WWAN+WIFI5G	Yes	Yes
5.	WWAN+WIFI5G+BT	Yes	Yes

Table 7: Simultaneous Transmission Possibilities

Note:

- 1) Bluetooth share the same Tx antenna and can't transmit simultaneously.
- 2) 2G&3G&4G can't transmit simultaneously.
- 3) Held to ear configurations are not applicable to Bluetooth and therefore were not considered for simultaneous transmission.

13.3. SAR Summation Scenario

Test Position		Left head touched	Left head tilted 15°	Righthhead touched	Right head tilted 15°
	GSM850	0.22	0.17	0.21	0.23
	PCS1900	0.14	0.19	0.19	0.24
	WCDMA Band II	0.51	0.64	0.68	1.00
	WCDMA Band IV	0.28	0.36	0.35	0.45
	WCDMA Band V	0.24	0.24	0.30	0.31
	LTE Band 2	0.33	0.39	0.40	0.53
	LTE Band 4	0.29	0.35	0.34	0.43
	LTE Band 5	0.26	0.24	0.32	0.32
	LTE Band 7	0.35	0.24	0.60	0.55
	LTE Band12	0.13	0.08	0.13	0.10
	LTE Band13	0.21	0.20	0.28	0.27
	LTE Band17	0.15	0.10	0.15	0.11
	LTE Band 38	0.24	0.25	0.54	0.68
	LTE Band 41	0.23	0.19	0.40	0.46
	LTE Band 66	0.36	0.44	0.44	0.56
	WIFI2.4G	0.68	0.55	0.29	0.35
	WIFI 5G	0.730	0.650	0.300	0.370
	BT	0.17	0.14	0.07	0.09
Σ 1g SAR(W/kg)		1.41	1.43	1.05	1.46

Conclusion:

- 1) Simultaneous Transmission SAR evaluation is not required for WiFi and UMTS&GSM<E&NSA, because the sum of the 1g SAR is 1.46W/kg < 1.6 W/kg.
- 2) One way of determining the threshold power level available to the secondary transmitter(Pavailable) is to calculate it from the measured peak spatial-average SAR of the primarytransmitter (SAR1) according to the equation:

Test Position		Front Side 10mm	Back Side 10mm	Left Side 10mm	Right Side 10mm	Top Side 10mm	Bottom Side 10mm	Front Side 15mm	Back Side 15mm
	GSM850	0.19	0.26	0.21	0.12	0.12	0.22	0.16	0.22
	PCS1900	0.11	0.17	0.02	0.06	0.11	0.24	0.06	0.08
	WCDMA Band II	0.18	0.28	0.07	0.10	0.31	0.36	0.13	0.19
	WCDMA Band IV	0.22	0.46	0.01	0.10	0.22	0.48	0.17	0.31
	WCDMA Band V	0.10	0.15	0.15	0.08	0.14	0.13	0.13	0.17
	LTE Band 2	0.20	0.31	0.02	0.09	0.33	0.31	0.13	0.19
	LTE Band 4	0.21	0.42	0.06	0.09	0.21	0.44	0.17	0.30
	LTE Band 5	0.11	0.16	0.16	0.09	0.16	0.13	0.14	0.18
	LTE Band 7	0.31	0.38	0.12	0.25	0.39	0.31	0.26	0.26
	LTE Band12	0.16	0.24	0.30	0.17	0.06	0.10	0.23	0.32
	LTE Band13	0.13	0.20	0.26	0.12	0.09	0.17	0.19	0.25
	LTE Band17	0.19	0.29	0.39	0.23	0.10	0.11	0.27	0.38
	LTE Band 38	0.15	0.30	0.05	0.15	0.32	0.16	0.12	0.13
	LTE Band 41	0.12	0.18	0.05	0.13	0.20	0.13	0.10	0.12
	LTE Band 66	0.35	0.67	0.08	0.15	0.28	0.74	0.27	0.46
	WIFI2.4G	0.24	0.35	0.05	0.28	0.19	0.05	0.13	0.16
WIFI 5G	0.210	0.760	0.250	0.830	0.450	0.100	0.250	0.500	
BT	0.02	0.03	0.01	0.01	0.01	0.01	0.01	0.01	
Σ 1g SAR(W/kg)		0.59	1.46	0.65	1.09	0.85	0.85	0.53	0.98

Conclusion:

- 1) Simultaneous Transmission SAR evaluation is not required for WiFi and UMTS&GSM<E&NSA, because the sum of the 1g SAR is 1.46W/kg < 1.6 W/kg.
- 2) One way of determining the threshold power level available to the secondary transmitter(Pavailable) is to calculate it from the measured peak spatial-average SAR of the primarytransmitter (SAR1) according to the equation:

13.4. Simultaneous Transmission Conclusion

The above numeral summed SAR results and SPLSR analysis is sufficient to determine that simultaneous cases will not exceed the SAR limit and therefore simultaneous transmission SAR with Volume Scan is not required per KDB 447498 D01v06

Appendix A. System Check Plots

(Pls see Appendix A)

Appendix B. MEASUREMENT SCANS

(Pls see Appendix B)

Appendix C RELEVANT PAGES FROM PROBE CALIBRATION REPORT(S)

(Pls see Appendix C)

Appendix D. RELEVANT PAGES FROM DAE&DIPOLE VALIDATION KIT REPORT(S)

(Pls see Appendix D)

Appendix E. Photographs of the Test Set-Up

(Pls see Appendix E)