cetecom advanced

Bundesnetzagentur

BNetzA-CAB-02/21-102

TEST REPORT

Test Report No.: 1-7811-24-01-03_TR1-R03

ilac-MRA

DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-00

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Accredited Test Laboratory:
The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2018-03) by the Deutsche Akkreditierungsstelle GmbH (DAkkS)
The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate starting with the registration number: D-PL-12047-01-00.

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Test Standards

IEC/IEEE 62209-1528-2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
RSS-102 Issue 6	Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item:	Antenna and Remote Telematics Integrated System
Device type:	mobile device
Model name:	**ARTEMIS-NAR-01**
S/N serial number:	AT10NAFH24000000050
FCC-ID:	QWY-ARTEMIS-NAR01
ISED Number:	6588A-ARTEMISNAR1
Product Marketing Name (PMN):	ARTEMIS-NAR-01
Hardware Version Identification No. (HVIN):	ARTEMIS-NAR-01
Host Marketing Name (HMN):	-/-
Firmware Version Identification Number (FVIN):	E20 R550
IMEI-Number:	351032270010588
Hardware status:	D4
Software status:	E20 R550
Frequency:	see technical details
Antenna:	integrated antennas
Power option:	external 12 V DC
Test sample status:	identical prototype
Exposure category:	general population / uncontrolled environment

This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

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2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. cetecom advanced GmbH does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of cetecom advanced GmbH.
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2.2 Application details

Date of receipt of order:	2024-04-25
Date of receipt of test item:	2024-05-13
Start of test:	2024-05-15
End of test:	2024-06-07

2.3 Statement of compliance

The SAR values found for the ARTEMIS-NAR-01 Antenna and Remote Telematics Integrated System are below the maximum recommended levels of 1.6 W/Kg as averaged over any 1 g tissue according to the FCC rule §2.1093, the Health Canada’s Safety Code 6 and the Industry Canada Radio Standards Specification RSS-102 for General Population/Uncontrolled exposure.

2.4 Technical details

Band tested for this test report	Technology	Lowest transmit frequency/MHz	Highest transmit frequency/MHz	Lowest receive Frequency/MHz	Highest receive Frequency/MHz	Kind of modulation	Power Class	Tested power control level	Test channel low	Test channel middle	Test channel high	Maximum P_{avg}/dBm
☒	UMTS FDD II	1852.4	1907.6	1932.4	1987.6	QPSK	3	max	9262	9400	9538	22.2
☒	UMTS FDD IV	1712.4	1752.6	2112.4	2152.6	QPSK	3	max	1312	1412	1513	22.3
☒	UMTS FDD V	826.4	846.6	871.4	891.6	QPSK	3	max	4132	4182	4233	22.7
☒	LTE FDD 2	1850	1910	1930	1990	QPSK	3	max	18700	18900	19100	23.3
☒	LTE FDD 4	1710	1755	2110	2155	QPSK	3	max	20050	20175	20300	23.6
☒	LTE FDD 5	824	849	869	894	QPSK	3	max	20450	20525	20600	23.6
☒	LTE FDD 7	2500	2570	2620	2690	QPSK	3	max	20850	21100	21350	23.1
☒	LTE FDD 12	704	711	734	741	QPSK	3	max	23060	23095	23130	22.8
☒	LTE FDD 13	777	787	746	756	QPSK	3	max	23205	23230	23255	23.7
☒	LTE FDD 14	788	798	758	768	QPSK	3	max	23305	23330	23355	23.6
☒	LTE FDD 17	704	716	734	746	QPSK	3	max	23780	23790	23800	22.7
☒	LTE FDD 25	1850	1915	1930	1995	QPSK	3	max	26140	26340	26590	23.2
☒	LTE FDD 26	814	849	859	894	QPSK	3	max	26765	26865	26965	23.5
☐	LTE FDD 29	Downlink only		717	728							
☐	LTE FDD 30	Downlink only		2350	2360							
☒	LTE TDD 41	2496	2690	2496	2690	QPSK	3	max	39750	40620	41490	23.2
☒	LTE TDD 66	1710	1780	2110	2200	QPSK	3	max	132072	132322	132572	23.7
☒	LTE FDD 71	663	698	617	652	QPSK	3	max	133222	133297	133372	22.9
☒	NR FDD n2	1850	1910	1930	1990	QPSK,CP	3	max	372000	376000	380000	23.4
☒	NR FDD n5	824	849	869	894	QPSK,CP	3	max	166800	167300	167800	23.6
☒	NR TDD n41	2496	2690	2496	2690	QPSK,CP	3	max	509202	518598	528000	24.0
☒	NR FDD n66	1710	1780	2110	2200	QPSK,CP	3	max	344000	349000	354000	23.3
☒	NR FDD n71	663	698	617	652	QPSK,CP	3	max	134600	136100	137600	23.0
☒	NR TDD n77	3300	4200	3300	4200	QPSK,CP	2	max	633332	643332	662000	27.2
☒	NR TDD n78	3300	3800	3300	3800	QPSK,CP	2	max	626733	636667	651467	27.3
☐	RKE	433MHz										11.5

Module information:

2.1.2 Key Features Supported

The following Table defines the key features supported in the device.

Feature	Supported	Release/Comments
RAN	Y	UTRA / E-UTRA / 5G NR
UTRA Operating Band(s)	Y	FDDII / FDDIV / FDDV
E-UTRA Operating Band(s)	Y	FDD2 / FDD4 / FDD5 / FDD7 / FDD12 / FDD13 / FDD14 / FDD17 / FDD25 / FDD26 / FDD29 / TDD41 / FDD66 / FDD71
E-UTRA CA Operating Band(s)	Y	Reference to Section 2.1.3
5G NR Operating Band(s)	Y	Reference to Section 2.1.4
UTRA Release	Y	Rel-9
HSDPA Category	Y	Cat 24
HSUPA Category	Y	Cat 6
E-UTRA Release	Y	Rel-15
E-UTRA Category	Y	Cat 6
E-UTRA DL Category	Y	Cat 6
E-UTRA UL Category	Y	Cat 5
5G NR Release	Y	Rel-15

3 Test standards/ procedures references

Test Standard	Version	Test Standard Description
RSS-102 Issue 6	2023-12	Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
RSS-102 Supplementary Procedures SPR-002	2022-10	SPR-002 — Supplementary Procedure for Assessing Compliance of Equipment Operating from 3 kHz to 10 MHz with RSS-102
Canada's Safety Code No. 6	2015-06	Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz
IEEE Std. C95-3	2002	IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields – RF and Microwave
IEC/IEEE 62209-1528-2020	2020-10-19	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)

FCC KDBs:

KDB 865664D01v01	August 7, 2015	FCC OET SAR measurement requirements 100 MHz to 6 GHz
KDB 865664D02v01	October 23, 2015	RF Exposure Compliance Reporting and Documentation Considerations
KDB 447498D01v06	October 23, 2015	Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies
KDB 941225D01v03	October 23, 2015	SAR Measurements Procedures for 3G Devices
KDB 941225D05v02	October 23, 2015	SAR for LTE Devices
KDB 941225D05Av01	October 23, 2015	LTE Rel. 10 KDB Inquiry Sheet

3.1 RF exposure limits

RF Exposure levels according CFR 47 – Part 1, §1.1310 / RSS 102 Issue 06 / safety Code 6:

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain and Trunk)	**1.60 W/kg**	8.00 W/kg
Spatial Average SAR** (Whole Body)	0.08 W/kg	0.40 W/kg
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 W/kg	20.00 W/kg

Table 1: 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 gram 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.

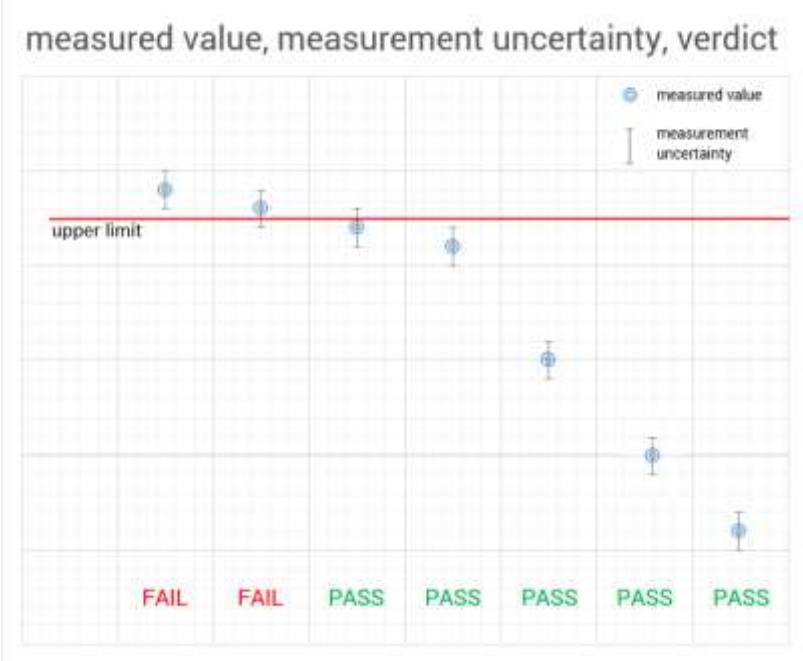
*** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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).

4 Reporting statements of conformity – decision rule

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed in chapter 3.
The measurement uncertainty is mentioned in this test report, see chapter 9, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 20% that the decision might be wrong."



5 Summary of Measurement Results

☒	**No deviations from the technical specifications ascertained**
☐	Deviations from the technical specifications ascertained

Maximum SAR_{1g} value 16 mm distance (W/kg)			
		reported	**limit**
Head & body worn		**0.331**	**1.6**
collocated situations	**ΣSAR evaluation 4G & 5G NR NSA**	**0.319**	**1.6**

6 Test Environment

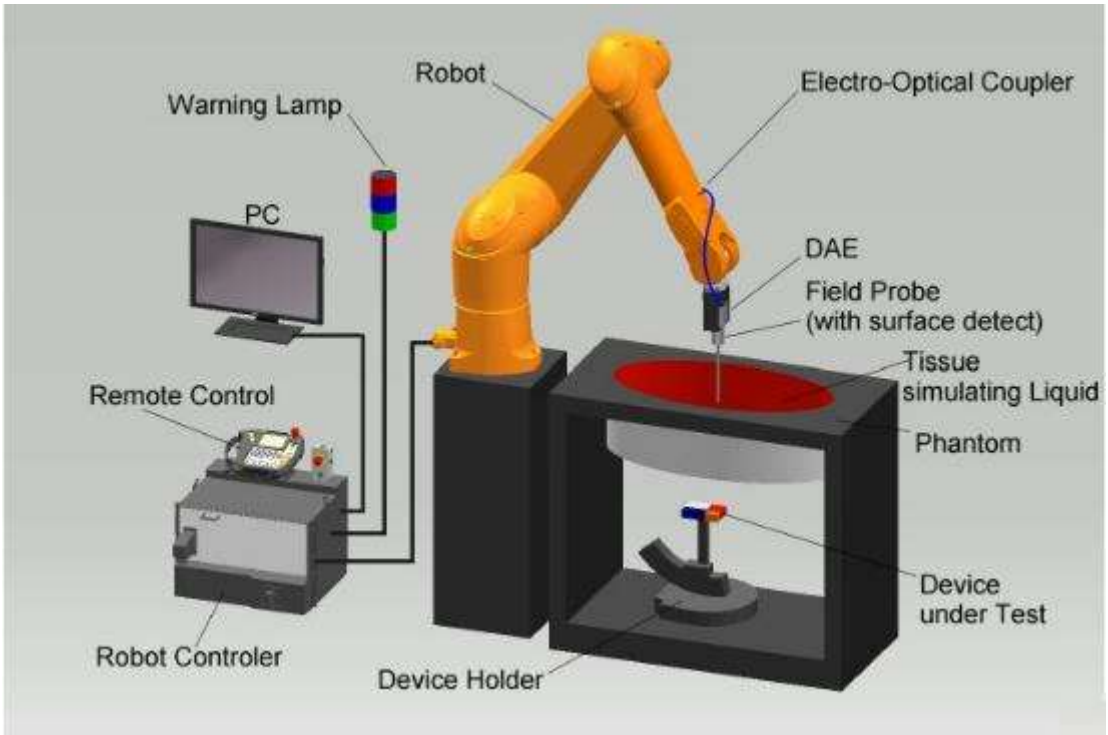
Ambient temperature:	20 – 24 °C
Tissue Simulating liquid:	20 – 24 °C
Relative humidity content:	40 – 50 %
Air pressure:	not relevant for this kind of testing
Power supply:	230 V / 50 Hz

NOTE: For the SAR measurements the exact temperature values for each test are shown in the SAR result tables and are also at the bottom of each measurement plot.

7 Test Set-up

7.1 Measurement system

7.1.1 System Description



- The DASY 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 DASY measurement server.
- The DASY 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.
- DASY 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 check dipoles allowing to validate the proper functioning of the system.

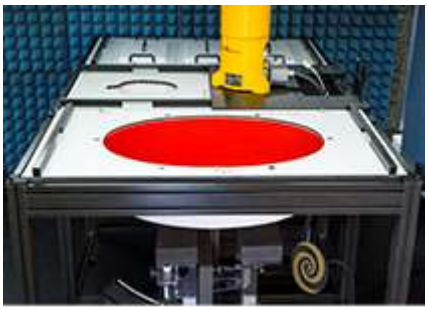
7.1.2 Test environment

The DASY measurement system is placed at the head end of a room with dimensions:
5 x 2.5 x 3 m³, the SAM phantom is placed in a distance of 75 cm from the side walls and 1.1m from the rear wall.
Above the test system a 1.5 x 1.5 m² array of pyramid absorbers is installed to reduce reflections from the ceiling.
Picture 1 of the photo documentation shows a complete view of the test environment.
The system allows the measurement of SAR values larger than 0.005 W/kg.

7.1.3 Probe description

Isotropic E-Field Probe EX3DV4 for Dosimetric Measurements	
Technical data according to manufacturer information	
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 W/kg; Linearity: ± 0.2 dB (noise: typically<1 µW/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%.

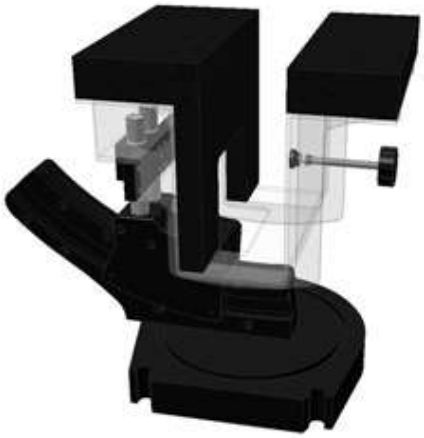
7.1.4 Phantom description



The used ELI Phantom is fully compatible with the IEC/IEEE 62209-1528 and all known tissue stimulating liquids. It meets the requirements specified in KDB865664 D01 for Specific Absorption Rate (SAR) measurements and is fully compatible with the standard IEC 62209-2. The phantom consists of a fibreglass shell integrated in a wooden table. The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 4MHz to 10 GHz.

7.1.5 Laptop Extension Kit for Device holder

SPEAG released a simple but effective extension for their Mounting Device that facilitates the testing of larger devices according to standard (e.g., laptops, cameras, etc).



The extension is lightweight and made of POM, PET-G acrylic glass and foam. It fits easily on the upper part of the Mounting Device in place of the phone positioner.

7.1.6 Scanning procedure

- The DASY 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 highest integrated SAR value is the main concern in compliance test applications. These values can mostly be found at the inner surface of the phantom and cannot be measured directly due to the sensor offset in the probe. To extrapolate the surface values, the measurement distances to the surface must be known accurately. A distance error of 0.5mm could produce SAR errors of 6% at 1800 MHz. Measurements can be performed in a fixed plane or by following an arbitrary surface.
- For an automatic and accurate detection of the phantom surface, the DASY system uses Mechanical Surface Detection:

  Mechanical Surface Detection
  Mechanical surface detection uses the probe collision detector built into the DAE. It is extremely accurate if the probe is normal to the surface (0.05 mm). For angled probes, the distance increases, because the detection is at the edge of the probe tip. It can be used in any liquid with any kind of probe. If the surface is strongly angled with respect to the probe, the probe slides along the surface and is defected sideways. The second switch system in the DAE will detect this situation and the probe will move backward until the touch condition is cleared. However, there will be some remaining uncertainty in the final probe position. In the job description, the desired distance from the probe sensors to the phantom surface can be entered. The detection is always at touch, but the probe will move backward from the surface the indicated distance before starting the measurement.

  Mother Scan in cDASY6/DASY8 Module SAR
  While the DASY5 V5.2 SAR system uses the mechanical surface detection at each point of the Area Scan / Zoom Scan, the cDASY6/DASY8 Module SAR provides the possibility to do a Mother Scan in which a high resolution Area Scan is done in the phantom filled with liquid to a fixed level using a special teaching probe. This mother scan data is used to recreate the phantom inner surface in software, and all future area and/or zoom scans, and a surface detection check is no longer required.

- 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 scan uses different grid spacings for different frequency measurements. Standard grid spacing for head measurements in frequency ranges ≤ 2GHz is 15 mm in x- and y- dimension. For higher frequencies a finer resolution is needed, thus for the grid spacing is reduced according the following table:

Area scan grid spacing for different frequency ranges	
Frequency range	Grid spacing
≤ 2 GHz	≤ 15 mm
2 – 4 GHz	≤ 12 mm
4 – 6 GHz	≤ 10 mm

  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 annex B.

- A „zoom scan" measures the field in a volume around the 2D peak SAR value acquired in the previous „coarse" scan. It uses a fine meshed grid where the robot moves the probe in steps along all the 3 axis (x, y and z-axis) starting at the bottom of the Phantom. The grid spacing for the cube measurement is varied according to the measured frequency range, the dimensions are given in the following table:

Zoom scan grid spacing and volume for different frequency ranges			
Frequency range	Grid spacing for x, y axis	Grid spacing for z axis	Minimum zoom scan volume
≤ 2 GHz	≤ 8 mm	≤ 5 mm	≥ 30 mm
2 – 3 GHz	≤ 5 mm*	≤ 5 mm	≥ 28 mm
3 – 4 GHz	≤ 5 mm*	≤ 4 mm	≥ 28 mm
4 – 5 GHz	≤ 4 mm*	≤ 3 mm	≥ 25 mm
5 – 6 GHz	≤ 4 mm*	≤ 2 mm	≥ 22 mm

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

- DASY provides an auto-extending feature to expand the size of the measurement area of the zoom scan as long as the maximum is found too close to the edge of the measured range, which eliminates the need to re-measure cubes whose maximum is found on the boundary of the defined measurement cube.

- To meet the requirements of **IEC 62209-2 AMD1 from 2019** it is necessary to perform graded grid measurements to avoid measurement mistakes.

  Below 3 GHz it defines:
  Horizontal grid step ≤ 8mm
  Vertical grid step ≤ 5mm for uniform spacing

  For variable spacing in vertical direction the maximum distance between the two closest measured points to the phantom shell (M1 and M2) shall be ≤ 4 mm and the spacing between farther points shall increase by a factor ≤ 1.5. Zoom Scan size ≤ 30 mm by 30 mm by 30 mm.

  Above 3 GHz it defines:
  Horizontal grid step ≤ (24/*f* [GHz]) mm
  Vertical grid step ≤ (10/(*f* [GHz] − 1)) mm for uniform spacing

  For variable spacing in vertical direction the maximum distance between the two closest measured points to the phantom shell (M1 and M2) shall be ≤ (12/*f* [GHz]) mm and the spacing between farther points shall increase by a factor ≤ 1.5. Zoom Scan size ≤ 22 mm by 22 mm by 22 mm.

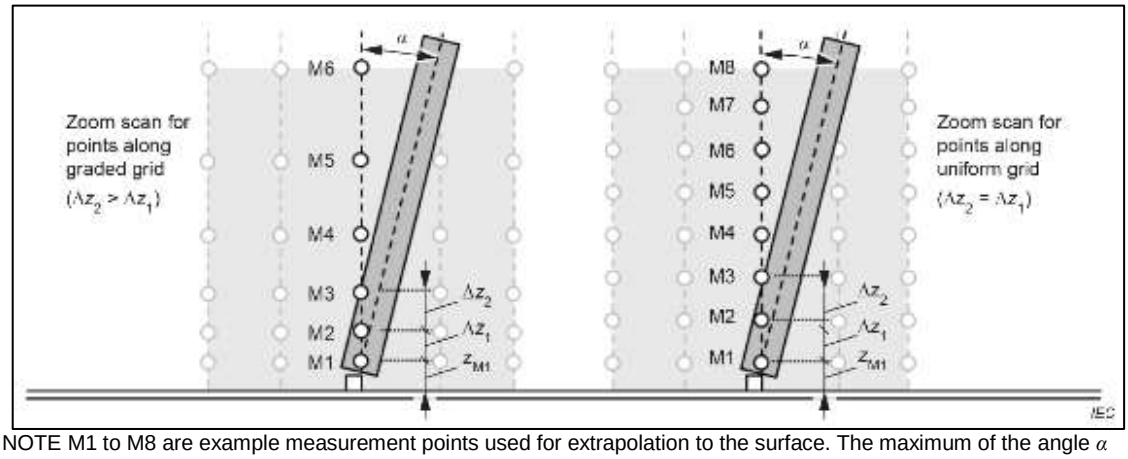
  <u>If the zoom scan measured as defined above complies with both of the following criteria, or if the peak spatial-average SAR is below 0.1 W/kg, no additional measurements are needed:</u>

  1) the smallest horizontal distance from the local SAR peaks to all points 3 dB below the SAR peak shall be larger than the horizontal grid steps in both *x* and y directions (Δx, Δy). This shall be checked for the measured zoom scan plane conformal to the phantom at the distance z_{M1}. The minimum distance shall be recorded in the SAR test report;
  2) the ratio of the SAR at the second measured point (M2) to the SAR at the closest measured point (M1) at the *x*-*y* location of the measured maximum SAR value shall be at least 30 %. This ratio (in %) shall be recorded in the SAR test report.

If one or both of the above criteria are not met, the zoom scan measurement shall be repeated using a finer resolution while keeping the other zoom scan parameters compatible with the basic requirements for zoom scans.

New horizontal and vertical grid steps shall be determined from the measured SAR distribution so that the above criteria are met. Compliance with the above two criteria shall be demonstrated for the new measured zoom scan. The size of the higher resolution zoom scan and all other parameters shall apply. The closest point to the phantom shell shall be 2 mm or less for graded grids and the grading factor shall be 1.5 or less. Uncertainties due to field distortion between the media boundary and the dielectric enclosure of the probe should also be minimized, which is achieved if the distance between the phantom surface and physical tip of the probe is larger than the probe tip diameter. Other methods may utilize correction procedures to compensate for boundary effects that enable high precision measurements closer than half the probe tip diameter. For all measurement points, the angle of the probe normal to the flat phantom surface shall be less than 5°. If this cannot be achieved, an additional uncertainty evaluation is required.

Orientation of the probe with respect to the line normal to the phantom surface, shown at two different locations:



NOTE M1 to M8 are example measurement points used for extrapolation to the surface. The maximum of the angle α between the evaluation axis and the surface normal line is called the probe angle. The distance z_{M1} is from the phantom shell to the first measurement point M1, and its maximum value is 1.4mm fixed for the DASY system equipped with an EX-Probe. The distances Δz_i (i = 1, 2, 3, ...) are the distances from measurement points M_i to M_{i-1}. For uniform grids, Δz_i are equal. For graded grids, $\Delta z_{i+1} > \Delta z_i$. $R_z = \Delta z_{i+1}/\Delta z_i$ is a ratio with a maximum value (defined in the table below). The z direction corresponds to the vertical direction, the x direction is horizontal and the y direction is horizontal into the page.

NOTE 1: The evaluation of the zoom scan is typically done by the post-processor by interpolation and extrapolation and without reconstruction of the field. More focused induced SAR distributions (e.g., for more localized sources such as capacitively coupled sources) require a more dense grid such that the same integration and extrapolation algorithms can be used for the same assessment uncertainty.

NOTE 2: The minimum ratio of 30 % is derived from the plane wave penetration depth at 6 GHz.

Detailed parameters can be seen in the following table:

Table 8 – Zoom scan parameters

Parameter	DUT transmit frequency being tested	
	$f \leq 3$ GHz	3 GHz $< f \leq$ 6 GHz
Maximum distance between the closest measured points and the phantom surface (z_{M1} in Figure 14 and Table 2, in mm)	5	$\delta \ln(2)/2$ [a]
Maximum angle between the probe axis and the flat phantom surface normal (α in Figure 14)	5°	5°
Maximum spacing between measured points in the x- and y-directions (Δx and Δy, in mm)	8	$24/f$ [b,c]
For uniform grids: Maximum spacing between measured points in the direction normal to the phantom shell (Δz_1 in Figure 14, in mm)	5	$10/(f - 1)$
For graded grids: Maximum spacing between the two closest measured points in the direction normal to the phantom shell (Δz_1 in Figure 14, in mm)	4	$12/f$
For graded grids: Maximum incremental increase in the spacing between measured points in the direction normal to the phantom shell ($R_z = \Delta z_2/\Delta z_1$ in Figure 14)	1,5	1,5
Minimum edge length of the zoom scan volume in the x- and y-directions (L_x in 7.2.5.3, in mm)	30	22
Minimum edge length of the zoom scan volume in the direction normal to the phantom shell (L_h in 7.2.5.3, in mm)	30	22
Tolerance in the probe angle	1°	1°

[a] δ is the penetration depth for a plane-wave incident normally on a planar half-space.

[b] This is the maximum spacing allowed, which may not work for all circumstances.

[c] f is the frequency in GHz.

Table M.1 – Minimum probe requirements as a function of frequency and parameters of the tissue equivalent liquid

1	2	3	4	5	6	7	8
Frequency MHz	Relative permittivity	Conductivity S/m	Wavelength in the medium (λ_r) mm	Plane wave Skin Depth (δ) mm	Maximum Diameter mm	50 % Distance for M1 ($z_{50\,\%} = \delta \ln(2)/2$) mm	Min. distance for M1 (z_{M1}) mm
300	45,3	0,87	149,6	46,1	8,0	16,0	5,0
450	43,5	0,87	101,1	42,9	8,0	14,9	5,0
750	41,9	0,89	61,8	38,8	8,0	13,6	5,0
835	41,5	0,9	55,8	38,9	8,0	13,5	5,0
900	41,5	0,97	51,7	36,1	8,0	12,5	5,0
1 450	40,5	1,20	32,5	28,6	8,0	9,9	5,0
1 500	40,0	1,40	26,4	24,3	8,0	8,4	5,0
2 000	40,0	1,40	23,7	24,2	8,0	8,4	5,0
2 450	39,2	1,80	19,8	18,7	6,5	6,5	5,0
2 600	39,0	1,96	18,5	17,2	6,2	5,9	5,0
3 000	38,5	2,40	16,1	13,9	5,4	4,8	5,0
4 000	37,4	3,43	12,3	9,6	4,1	3,3	3,3
5 000	36,2	4,45	10,0	7,3	3,3	2,5	2,5
5 200	36,0	4,66	9,6	7,0	3,2	2,4	2,4
5 400	35,8	4,86	9,3	6,7	3,1	2,3	2,3
5 600	35,5	5,07	9,0	6,4	3,0	2,2	2,2
5 800	35,3	5,27	8,7	6,1	2,9	2,1	2,1
6 000	35,1	5,48	8,4	5,9	2,8	2,0	2,0

Further probe parameters can be seen in Annex M of IEC 62209-2.

7.1.7 Spatial Peak SAR Evaluation

Both DASY5 V5.2 and cDASY6/DASY8 Module SAR software include all numerical procedures necessary to evaluate the spatial peak SAR values. Based on the IEEE 1528 standard, a new algorithm has been implemented. The spatial-peak SAR can be computed over any required mass.
The base for the evaluation is a "cube" measurement in a volume of 30mm³ below 3GHz or 22mm³ above 3GHz. The measured volume must include the 1 g and 10 g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan. If the 10g cube or both cubes are not entirely inside the measured volumes, the system issues a warning regarding the evaluated spatial peak values within the post-processing engine. This means that if the measured volume is shifted, higher values might be possible. To get the correct values a finer measurement grid for the area scan is used. In complicated field distributions, a large grid spacing for the area scan might miss some details and give an incorrectly interpolated peak location. Both DASY5 V5.2 and cDASY6/DASY8 Module SAR allow to automatically extend the grid to make sure that both cubes are inside the measured volume.

The entire evaluation of the spatial peak values is performed within the application in case of cDASY6/DASY8 Module SAR software or within Post-processing engine (SEMCAD X) for DASY5 V5.2. The system always gives the maximum values for the 1 g and 10 g cubes. The DASY6 software allow to automatically extend the grid to make sure that both cubes are inside the measured volume. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

1. extraction of the measured data (grid and values) from the Zoom Scan
2. calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
3. generation of a high-resolution mesh within the measured volume
4. interpolation of all measured values from the measurement grid to the high-resolution grid
5. extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
6. calculation of the averaged SAR within masses of 1 g and 10 g The significant parts are outlined in more detail within the following sections.

Interpolation, Extrapolation and Detection of Maxima

The probe is calibrated at the center of the dipole sensors which is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated.

The choice of the coordinate system defining the location of the measurement points has no influence on the uncertainty of the interpolation, Maxima Search and extrapolation routines. The interpolation, extrapolation and maximum search routines are all based on the modified Quadratic Shepard's method [Robert J. Renka, "Multivariate Interpolation Of Large Sets Of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988, pp. 139-148.].

Thereby, the interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation. The DASY6 routines construct a once-continuously differentiable function that interpolates the measurement values as follows:

- For each measurement point a trivariate (3-D) / bivariate (2-D) quadratic is computed. It interpolates the measurement values at the data point and forms a least-square fit to neighbouring measurement values.
- the spatial location of the quadratic with respect to the measurement values is attenuated by an inverse distance weighting. This is performed since the calculated quadratic will fit measurement values at nearby points more accurate than at points located further away.
- After the quadratics are calculated at all measurement points, the interpolating function is calculated as a weighted average of the quadratics.

There are two control parameters that govern the behavior of the interpolation method.

One specifies the number of measurement points to be used in computing the least-square fits for the local quadratics. These measurement points are the ones nearest the input point for which the quadratic is being computed.

The second parameter specifies the number of measurement points that will be used in calculating the weights for the quadratics to produce the final function. The input data points used there are the ones nearest the point at which the interpolation is desired. Appropriate defaults are chosen for each of the control parameters.

The trivariate quadratics that have been previously computed for the 3-D interpolation and whose input data are at the closest distance from the phantom surface, are used in order to extrapolate the fields to the surface of the phantom.

In order to determine all the field maxima in 2-D (Area Scan) and 3-D (Zoom Scan), the measurement grid is refined by a default factor of 10 (area) and 5 (zoom), respectively, and the interpolation function is used to evaluate all field values between corresponding measurement points. Subsequently, a linear search is applied to find all the candidate maxima. In a last step, non physical maxima are removed and only those maxima which are within 2 dB of the global maximum value are retained.

Important: To be processable by the interpolation/extrapolation scheme, the Area Scan requires at least6 measurement points. The Zoom Scan requires at least 10 measurement points to allow the application of these algorithms.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extrema of the SAR distribution. The uncertainty on the locations of the extrema is less than 1/20 of the grid size. Only local maxima within 2 dB of the global maximum are searched and passed for the Zoom Scan measurement.

In the Zoom Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

Averaging and Determination of spatial Peak SAR

Within DASY5 V5.2 software, the interpolated data is used to average the SAR over the 1g and 10g cubes by spatially discretizing the entire measured volume. The resolution of this spatial grid is around 1mm and chosen such that the cube side length is a multiple of the resolution. The resulting volumes are defined as cubical volumes containing the appropriate tissue parameters that are centered at the location. The location is defined as the center of the incremental volume.

The spatial-peak SAR must be evaluated in cubical volumes containing a mass that is within 5% of the required mass. The cubical volume centered at each location, as defined above, should be expanded in all directions until the desired value for the mass is reached, with no surface boundaries of the averaging volume extending beyond the outermost surface of the considered region. In addition, the cubical volume should not consist of more than 10% of non-liquid volume. If these conditions are not satisfied, then the center of the averaging volume is moved to the next location.

Reference is kept of all locations used and those not used for averaging the SAR. All average SAR values are finally assigned to the centered location in each valid averaging volume. All locations included in an averaging volume are marked as used to indicate that they have been used at least once. If a location has been marked as used, but has never been the center of a cube, the highest averaged SAR value of all other cubical volumes which have used this location for averaging is assigned to this location. For the case of an unused location, a new averaging volume must be constructed which will have the unused location centered at one surface of the cube. The remaining five surfaces are expanded evenly in all directions until the required mass is enclosed, regardless of the amount of included air. Of the six possible cubes with one surface centered on the unused location, the smallest cube is used, which still contains the required mass.

If the final cube containing the highest averaged SAR touches the surface of the measured volume, an appropriate warning is issued within the Post-processing engine.

Within cDASY6/DASY8 Module SAR software, the measured grid is interpolated to a high resolution grid, where the resolution is around 1mm and chosen such that the cube volume is a multiple of the resolution. Points which are outside of the measured grid are masked out and set to zero. Then, the antiderivative of the interpolated grid is computed by using a Gaussian quadrature consecutively for all spatial dimensions.

The antiderivative is used to compute all cube averages of the volume with the same resolution as the interpolated grid. The maximum of these SAR averages is reported. If the cube containing the maximum averaged SAR touches the surface of the measured volume, an appropriate warning is issued within the Post-processing engine.

7.1.8 Data Storage and Evaluation

Data Storage

The DASY 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 ".DA4", ".DA5x". 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], [W/kg], [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	$Norm_i$, a_{i0}, a_{i1}, a_{i2}
	- Conversion factor	$ConvF_i$
	- 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 DASY 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:

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

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)
	dcp_i	= 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 [mV/(V/m)^2] for E-field Probes	(i = x, y, z)
	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 W/kg
	E_{tot}	= total field strength in V/m
	σ	= conductivity in [mho/m] or [Siemens/m]
	ρ	= equivalent tissue density in g/cm^3

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.

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

with	P_{pwe}	= equivalent power density of a plane wave in mW/cm^2
	E_{tot}	= total electric field strength in V/m
	H_{tot}	= total magnetic field strength in A/m

<u>Data Evaluation in cDASY6/DASY8</u>

cDASY6/DASY8 features basic evaluation capabilities comparable to the above described SEMCAD evaluation. The main difference is that cDASY6/DASY8 is a stand-alone all-in-one solution whilst SEMCAD is only used to add these features to the DASY5.2 (NEO) platform. The final results are fully comparable no matter if they were generated by DASY5.2(NEO) + SEMCAD or in cDASY6/DASY8 directly.

7.1.9 Tissue simulating liquids: dielectric properties

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

HBBL600-10000MHz Simulating Head Liquid, Manufactured by SPEAG:

Ingredients	(% by weight)
Water	50-65%
Mineral oil	10-30%
Emulsifiers	8-25%
Sodium salt	0-1.5%

Table 2: Head tissue dielectric properties

7.1.10 Tissue simulating liquids: parameters

Freq. (MHz)	Target head tissue		Measurement **head** tissue					Measurement date
	Permittivity	Conductivity [S/m]	Permittivity	Dev. %	Conductivity ε"	Conductivity [S/m]	Dev. %	
664	42.36	0.88	42.8	1.1	24.35	0.90	1.7	2024-05-15
694	42.20	0.89	42.7	1.3	23.55	0.91	2.6	
704	42.15	0.89	42.7	1.3	23.30	0.91	2.9	
707	42.13	0.89	42.7	1.3	23.23	0.91	3.0	
709	42.12	0.89	42.7	1.3	23.18	0.91	3.1	
710	42.11	0.89	42.7	1.3	23.16	0.91	3.1	
711	42.11	0.89	42.7	1.3	23.14	0.92	3.1	
713	42.10	0.89	42.7	1.3	23.09	0.92	3.2	
725	42.03	0.89	42.6	1.4	22.82	0.92	3.6	
728	42.02	0.89	42.6	1.4	22.75	0.92	3.7	
738	41.96	0.89	42.6	1.5	22.52	0.92	4.0	
750	41.90	0.89	42.5	1.5	22.24	0.93	4.3	
779	41.76	0.89	42.4	1.6	21.67	0.94	5.1	
782	41.75	0.89	42.4	1.6	21.61	0.94	5.2	
784	41.74	0.89	42.4	1.6	21.57	0.94	5.2	
790	41.71	0.89	42.4	1.7	21.45	0.94	5.4	
793	41.70	0.90	42.4	1.7	21.39	0.94	5.4	
795	41.69	0.90	42.4	1.7	21.35	0.94	5.5	
820	41.57	0.90	42.3	1.8	20.91	0.95	6.2	
822	41.56	0.90	42.3	1.8	20.87	0.95	6.2	
824	41.55	0.90	42.3	1.8	20.84	0.96	6.3	
825	41.55	0.90	42.3	1.8	20.82	0.96	6.3	
829	41.53	0.90	42.3	1.8	20.75	0.96	6.4	
832	41.51	0.90	42.3	1.8	20.70	0.96	6.5	
835	41.50	0.90	42.3	1.9	20.65	0.96	6.6	
837	41.50	0.90	42.3	1.8	20.61	0.96	6.4	
840	41.50	0.91	42.3	1.8	20.56	0.96	6.1	
842	41.50	0.91	42.2	1.8	20.53	0.96	6.0	
844	41.50	0.91	42.2	1.8	20.49	0.96	5.8	
847	41.50	0.91	42.2	1.8	20.44	0.96	5.5	

Freq. (MHz)	Target head tissue		Measurement **head** tissue					Measurement date
	Permittivity	Conductivity [S/m]	Permittivity	Dev. %	Conductivity ε"	Conductivity [S/m]	Dev. %	
1710	40.13	1.35	40.5	1.1	14.47	1.38	2.1	2024-05-15
1712	40.13	1.35	40.5	1.0	14.46	1.38	2.1	
1720	40.11	1.35	40.5	1.0	14.44	1.38	2.1	
1732	40.10	1.36	40.5	1.0	14.42	1.39	2.0	
1740	40.09	1.37	40.5	1.0	14.40	1.39	2.0	
1745	40.08	1.37	40.5	1.0	14.38	1.40	2.0	
1747	40.08	1.37	40.5	1.0	14.38	1.40	2.0	
1750	40.07	1.37	40.5	1.0	14.37	1.40	2.0	
1752	40.07	1.37	40.5	1.0	14.37	1.40	2.0	
1800	40.00	1.40	40.4	1.0	14.26	1.43	2.0	
1850	40.00	1.40	40.3	0.8	14.16	1.46	4.1	
1852	40.00	1.40	40.3	0.8	14.16	1.46	4.2	
1860	40.00	1.40	40.3	0.8	14.15	1.46	4.6	
1880	40.00	1.40	40.3	0.7	14.11	1.48	5.4	
1882	40.00	1.40	40.3	0.7	14.11	1.48	5.5	
1900	40.00	1.40	40.3	0.6	14.07	1.49	6.3	
1905	40.00	1.40	40.2	0.6	14.07	1.49	6.5	
1908	40.00	1.40	40.2	0.6	14.06	1.49	6.6	
2510	39.18	1.86	39.4	0.4	13.72	1.92	2.8	
2535	39.17	1.89	39.3	0.4	13.73	1.94	2.4	
2550	39.17	1.91	39.3	0.3	13.74	1.95	2.2	
2560	39.16	1.92	39.3	0.3	13.74	1.96	2.1	
2568	39.16	1.93	39.3	0.3	13.75	1.96	2.0	
2593	39.15	1.95	39.2	0.2	13.76	1.98	1.6	
2600	39.00	1.96	39.2	0.5	13.76	1.99	1.6	
2610	38.99	1.97	39.2	0.5	13.77	2.00	1.4	
2637	38.95	2.00	39.1	0.5	13.78	2.02	1.1	
2680	38.90	2.05	39.1	0.4	13.81	2.06	0.5	

Freq. (MHz)	Target head tissue		Measurement **head** tissue					Measurement date
	Permittivity	Conductivity [S/m]	Permittivity	Dev. %	Conductivity ε"	Conductivity [S/m]	Dev. %	
638	42.50	0.88	42.0	-1.2	24.78	0.88	-0.3	2024-06-05
694	42.20	0.89	41.8	-1.0	23.22	0.90	1.2	
750	41.90	0.89	41.6	-0.7	21.92	0.91	2.8	
832	41.51	0.90	41.4	-0.3	20.41	0.94	5.0	
835	41.50	0.90	41.4	-0.2	20.36	0.95	5.1	
837	41.50	0.90	41.4	-0.3	20.33	0.95	4.9	
840	41.50	0.91	41.4	-0.3	20.28	0.95	4.7	
1720	40.11	1.35	39.6	-1.4	14.22	1.36	0.4	
1745	40.08	1.37	39.5	-1.4	14.17	1.38	0.5	
1747	40.08	1.37	39.5	-1.4	14.16	1.38	0.5	
1750	40.07	1.37	39.5	-1.4	14.16	1.38	0.5	
1767	40.05	1.38	39.5	-1.4	14.13	1.39	0.5	
1775	40.04	1.39	39.5	-1.4	14.11	1.39	0.5	
1860	40.00	1.40	39.4	-1.6	13.96	1.44	3.2	
1880	40.00	1.40	39.3	-1.7	13.93	1.46	4.0	
1882	40.00	1.40	39.3	-1.7	13.92	1.46	4.1	
1900	40.00	1.40	39.3	-1.8	13.89	1.47	4.9	
2535	39.17	1.89	38.4	-2.0	13.22	1.86	-1.4	
2550	39.17	1.91	38.4	-2.0	13.22	1.88	-1.6	
2560	39.16	1.92	38.4	-2.0	13.22	1.88	-1.8	
2568	39.16	1.93	38.4	-2.1	13.22	1.89	-1.9	
2593	39.15	1.95	38.3	-2.1	13.23	1.91	-2.3	
2600	39.00	1.96	38.3	-1.7	13.23	1.91	-2.4	
2610	38.99	1.97	38.3	-1.7	13.24	1.92	-2.5	
2637	38.95	2.00	38.3	-1.7	13.25	1.94	-2.8	
2680	38.90	2.05	38.2	-1.7	13.28	1.98	-3.3	
3300	38.14	2.71	36.7	-3.7	13.86	2.54	-6.0	
3400	38.02	2.81	36.5	-4.0	13.88	2.62	-6.5	
3410	38.01	2.82	36.5	-4.0	13.88	2.63	-6.6	
3450	37.96	2.86	36.4	-4.1	13.88	2.66	-6.8	
3500	37.90	2.91	36.3	-4.2	13.89	2.70	-7.1	
3550	37.85	2.96	36.2	-4.3	13.90	2.75	-7.3	
3600	37.80	3.01	36.1	-4.4	13.91	2.79	-7.6	
3700	37.70	3.12	36.0	-4.5	13.95	2.87	-7.9	
3800	37.60	3.22	35.8	-4.7	14.02	2.96	-8.0	
4000	37.40	3.43	35.5	-5.1	14.17	3.15	-8.1	

Table 3: Parameter of the head tissue simulating liquid (HSL)

Note: The dielectric properties have been measured using the contact probe method at 22°C.

*) as the liquid parameters deviation is ≥ ± 5% an extrapolation according IEC / IEEE 62209-1528 chapter 7.8.2 approach 3 is necessary. The DASY software is capable to perform the necessary corrections directly from the tissue and measurement data. The uncertainties in this document have been adjusted accordingly.

For detailed information see chapter 8.3.3 SAR correction for deviations of complex permittivity from targetson page 245.

7.1.11 Measurement uncertainty evaluation for SAR test

DASY6/8 Uncertainty Budget According to IEC/IEEE 62209-1528 (Frequency band: 300 MHz - 3 GHz range)																	
Symbol	Error Description	Uncertainty Value			Probability Distribution	Divisor		c_i (1g)	c_i (10g)	Standard Uncertainty ± %, (1g)			± %, (10g)		
Measurement System Errors															
CF	Probe Calibration Repeat.	±	12.0	%	Normal		2	1	1	±	6.0	%	±	6.0	%
CFdrift	Probe Calibration Drift	±	1.7	%	Rectangular	√	3	1	1	±	1.0	%	±	1.0	%
LIN	Probe linearity	±	4.7	%	Rectangular	√	3	1	1	±	2.7	%	±	2.7	%
BBS	Broadband Signal	±	3.0	%	Rectangular	√	3	1	1	±	1.7	%	±	1.7	%
ISO	Probe Isotropy (axial)	±	7.6	%	Rectangular	√	3	1	1	±	4.4	%	±	4.4	%
DAE	Data Acquisition	±	0.3	%	Normal		1	1	1	±	0.3	%	±	0.3	%
AMB	RF Ambient	±	1.8	%	Normal		1	1	1	±	1.8	%	±	1.8	%
Δ_{sys}	Probe Positioning	±	0.006	mm	Normal		1	0.14	0.14	±	0.1	%	±	0.1	%
DAT	Data Processing	±	1.2	%	Normal		1	1	1	±	1.2	%	±	1.2	%
Phantom and Device Errors															
LIQ(σ)	Conductivity (meas.)[DAK]	±	2.5	%	Normal		1	0.78	0.71	±	2.0	%	±	1.8	%
LIQ(Tσ)	Conductivity (temp.)[BB]	±	3.3	%	Rectangular	√	3	0.78	0.71	±	1.5	%	±	1.4	%
EPS	Phantom Permittivity	±	14.0	%	Rectangular	√	3	0	0	±	0.0	%	±	0.0	%
DIS	Distance DUT - TSL	±	2.0	%	Normal		1	2	2	±	4.0	%	±	4.0	%
D_{xyz}	Device Positioning	±	1.0	%	Normal		1	1	1	±	1.0	%	±	1.0	%
H	Device Holder	±	3.6	%	Normal		1	1	1	±	3.6	%	±	3.6	%
MOD	DUT Modulation[m]	±	2.4	%	Rectangular	√	3	1	1	±	1.4	%	±	1.4	%
TAS	Time-average SAR	±	1.7	%	Rectangular	√	3	1	1	±	1.0	%	±	1.0	%
RF_{drift}	DUT drift	±	2.5	%	Normal		1	1	1	±	2.5	%	±	2.5	%
VAL	Val Antenna Unc.[val]	±	0.0	%	Normal		1	1	1	±	0.0	%	±	0.0	%
RF_{in}	Unc. Input Power[val]	±	0.0	%	Normal		1	1	1	±	0.0	%	±	0.0	%
Correction to the SAR results															
C(ε, σ)	Deviation to Target	±	1.9	%	Normal		1	1	0.84	±	1.9	%	±	1.6	%
C(R)	SAR scaling[p]	±	0.0	%	Rectangular	√	3	1	1	±	0.0	%	±	0.0	%
u(ΔSAR)	**Combined Uncertainty**									±	11.0	%	±	10.9	%
U	**Expanded Uncertainty**									±	**21.9**	%	±	**21.7**	%

Table 4: Measurement uncertainties

Worst-Case uncertainty budget for DASY6/8 assessed according to IEC/IEEE 62209-1528 [4]. The budget is valid for the frequency range 300MHz - 3 GHz and represents a worst-case analysis. For specific tests and configurations, the uncertainty could be considerable smaller. All listed error components have $\mathcal{V}eff$ equal to ∞.

Footnote details:

[m] SMC calibration is a new method for determining the total deviation from linearity. The uncertainty is ≤ 2.4% for psSAR ≤ 2 W/kg, ≤ 4.8% for psSAR1g/10g ≤ 4 W/kg and ≤ 9.6% for psSAR1g/10g ≤ 10 W/kg (see modulation calibration parameter uncertainty in the probe calibration certificate);

[BB] if SPEAG's broad-band liquids (BBL) are used that have low temperature coefficients;

[DAK] if SPEAG's high precision dielectric probe kit (DAK) is applied;

[p] if power scaling is used, error item "SAR Scaling" must be adjusted accordingly;

[val] only applies in case of validation measurements.

DASY6 Uncertainty Budget According to IEC/IEEE 62209-1528 (Frequency band: 3 GHz - 6 GHz range)																
Symbol	Error Description	Uncertainty Value			Probability Distribution	Divisor		c_i (1g)	c_i (10g)	Standard Uncertainty ± %, (1g)			Standard Uncertainty ± %, (10g)		
Measurement System Errors															
CF	Probe Calibration Repeat.	±	13.1	%	Normal		2	1	1	±	6.6	%	±	6.6	%
CFdrift	Probe Calibration Drift	±	1.7	%	Rectangular	√	3	1	1	±	1.0	%	±	1.0	%
LIN	Probe linearity	±	4.7	%	Rectangular	√	3	1	1	±	2.7	%	±	2.7	%
BBS	Broadband Signal	±	2.6	%	Rectangular	√	3	1	1	±	1.5	%	±	1.5	%
ISO	Probe Isotropy (axial)	±	7.6	%	Rectangular	√	3	1	1	±	4.4	%	±	4.4	%
DAE	Data Acquisition	±	1.2	%	Normal		1	1	1	±	1.2	%	±	1.2	%
AMB	RF Ambient	±	1.8	%	Normal		1	1	1	±	1.8	%	±	1.8	%
Δ_{sys}	Probe Positioning	±	0.005	mm	Normal		1	0.29	0.29	±	0.2	%	±	0.2	%
DAT	Data Processing	±	2.3	%	Normal		1	1	1	±	2.3	%	±	2.3	%
Phantom and Device Errors															
LIQ(σ)	Conductivity (meas.)[DAK]	±	2.5	%	Normal		1	0.78	0.71	±	2.0	%	±	1.8	%
LIQ(Tσ)	Conductivity (temp.)[BB]	±	3.4	%	Rectangular	√	3	0.78	0.71	±	1.5	%	±	1.4	%
EPS	Phantom Permittivity	±	14.0	%	Rectangular	√	3	0.25	0.25	±	2.0	%	±	2.0	%
DIS	Distance DUT - TSL	±	2.0	%	Normal		1	2	2	±	4.0	%	±	4.0	%
D_{xyz}	Device Positioning	±	1.0	%	Normal		1	1	1	±	1.0	%	±	1.0	%
H	Device Holder	±	3.6	%	Normal		1	1	1	±	3.6	%	±	3.6	%
MOD	DUT Modulation[m]	±	2.4	%	Rectangular	√	3	1	1	±	1.4	%	±	1.4	%
TAS	Time-average SAR	±	1.7	%	Rectangular	√	3	1	1	±	1.0	%	±	1.0	%
RF_{drift}	DUT drift	±	2.5	%	Normal		1	1	1	±	2.5	%	±	2.5	%
VAL	Val Antenna Unc.[val]	±	0.0	%	Normal		1	1	1	±	0.0	%	±	0.0	%
RF_{in}	Unc. Input Power[val]	±	0.0	%	Normal		1	1	1	±	0.0	%	±	0.0	%
Correction to the SAR results															
C(ε, σ)	Deviation to Target	±	1.9	%	Normal		1	1	0.84	±	1.9	%	±	1.6	%
C(R)	SAR scaling[p]	±	0.0	%	Rectangular	√	3	1	1	±	0.0	%	±	0.0	%
u(ΔSAR)	**Combined Uncertainty**									±	11.6	%	±	11.6	%
U	**Expanded Uncertainty**									±	**23.3**	%	±	**23.1**	%

Table 5: Measurement uncertainties

Worst-Case uncertainty budget for DASY6 assessed according to IEC/IEEE 62209-1528 [4]. The budget is valid for the frequency range 3 GHz – 6 GHz and represents a worst-case analysis. For specific tests and configurations, the uncertainty could be considerable smaller. All listed error components have $\mathcal{V}eff$ equal to ∞.

Footnote details:

[m] SMC calibration is a new method for determining the total deviation from linearity. The uncertainty is ≤ 2.4% for psSAR ≤ 2 W/kg, ≤ 4.8% for psSAR1g/10g ≤ 4 W/kg and ≤ 9.6% for psSAR1g/10g ≤ 10 W/kg (see modulation calibration parameter uncertainty in the probe calibration certificate);

[BB] if SPEAG's broad-band liquids (BBL) are used that have low temperature coefficients;

[DAK] if SPEAG's high precision dielectric probe kit (DAK) is applied;

[p] if power scaling is used, error item "SAR Scaling" must be adjusted accordingly;

[val] only applies in case of validation measurements.

7.1.12 Measurement uncertainty evaluation for System Check

Repeatability Budget for System Check (Frequency band: 300MHz - 6GHz range) with DASY6/8 System																	
Symbol	Error Description	Uncertainty Value			Probability Distribution		Divisor	c_i (1g)	c_i (10g)	Standard Uncertainty ± %, (1g)				± %, (10g)			
Measurement System Errors																	
CF	Probe Calibration Repeat.	±	3.6	%	Normal		2	2	1	±	5.1	%	±	2.5	%		
CFdrift	Probe Calibration Drift	±	1.7	%	Rectangular	√	3	1	1	±	1.0	%	±	1.0	%		
LIN	Probe linearity	±	4.7	%	Rectangular	√	3	0	0	±	0.0	%	±	0.0	%		
BBS	Broadband Signal	±	0.0	%	Rectangular	√	3	0	0	±	0.0	%	±	0.0	%		
ISO	Probe Isotropy (axial)	±	4.7	%	Rectangular	√	3	0	0	±	0.0	%	±	0.0	%		
DAE	Data Acquisition	±	0.3	%	Normal		1	0	0	±	0.0	%	±	0.0	%		
AMB	RF Ambient	±	0.6	%	Normal		1	0	0	±	0.0	%	±	0.0	%		
Δ_{sys}	Probe Positioning	±	0.2	%	Normal		1	0.33	0.33	±	0.1	%	±	0.1	%		
DAT	Data Processing	±	0.0	%	Normal		1	1	1	±	0.0	%	±	0.0	%		
Phantom and Device Errors																	
LIQ(σ)	Conductivity (meas.)[DAK]	±	2.5	%	Normal		1	0.78	0.71	±	2.0	%	±	1.8	%		
LIQ(Tσ)	Conductivity (temp.)[BB]	±	3.4	%	Rectangular	√	3	0.78	0.71	±	1.5	%	±	1.4	%		
EPS	Phantom Permittivity	±	14.0	%	Rectangular	√	3	0	0	±	0.0	%	±	0.0	%		
DIS	Distance Phantom - DUT	±	1.0	%	Normal		1	2	2	±	2.0	%	±	2.0	%		
MOD	DUT Modulation[m]	±	0.0	%	Rectangular	√	3	1	1	±	0.0	%	±	0.0	%		
TAS	Time-average SAR	±	0.0	%	Rectangular	√	3	1	1	±	0.0	%	±	0.0	%		
VAL	Validation antenna	±	0.0	%	Normal		1	1	1	±	0.0	%	±	0.0	%		
P_{in}	Accepted power	±	1.2	%	Normal		1	1	1	±	1.2	%	±	1.2	%		
Correction to the SAR results																	
C(ε, σ)	Deviation to Target	±	1.9	%	Normal		1	1	0.84	±	1.9	%	±	1.6	%		
u(ΔSAR)	**Combined Uncertainty**									±	6.5	%	±	4.5	%		
U	**Expanded Uncertainty**									±	**13.0**	%	±	**9.1**	%		

Table 6: Repeatability of the system check (300MHz - 6 GHz).

All listed error components have $\mathcal{V}_{eff}$ equal to ∞.

Footnote details:
[BB] if SPEAG's broad-band liquids (BBL) are used that have low temperature coefficients;
[DAK] if SPEAG's high precision dielectric probe kit (DAK) is applied.

Note: Worst case probe calibration uncertainty has been applied for all probes used during the measurements.

7.1.13 System check

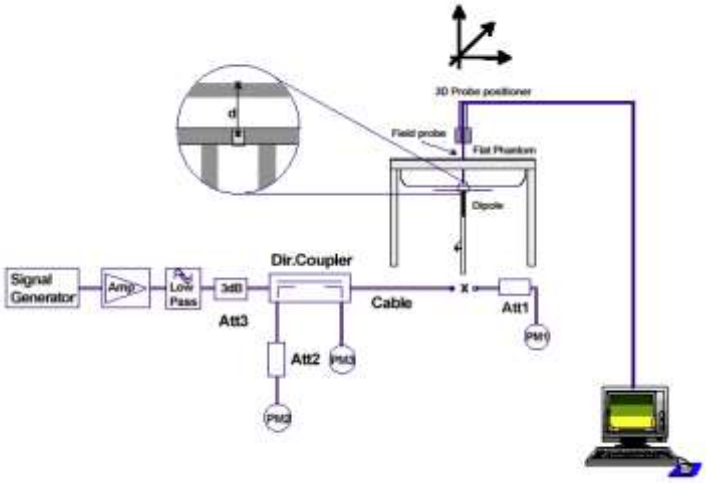
The system check is performed for verifying the accuracy of the complete measurement system and performance of the software. The following table shows system check results for all frequency bands and tissue liquids used during the tests (plot(s) see annex A).

System performence check (1000 mW)									
System validation Kit	Probe	Frequency	Target SAR_{1g}	Target SAR_{10g}	Measured SAR_{1g}	SAR_{1g}	Measured SAR_{10g}	SAR_{10g}	Measured date
		MHz	W/kg (+/- 10%)		W/kg	dev.	W/kg	dev.	
D750V3 S/N: 1041	EX3DV4 S/N: 7852	750	8.52	5.60	8.52	0.0%	5.60	0.0%	2024-05-16
D750V3 S/N: 1041	EX3DV4 S/N: 3944	750	8.52	5.60	8.88	4.2%	5.90	5.4%	2024-06-07
D835V2 S/N: 4d153	EX3DV4 S/N: 7852	835	9.63	6.27	10.20	5.9%	6.59	5.1%	2024-05-15
D835V2 S/N: 4d153	EX3DV4 S/N: 3944	835	9.63	6.27	10.10	4.9%	6.62	5.6%	2024-06-07
D1750V2 S/N: 1093	EX3DV4 S/N: 3944	1750	37.20	19.50	37.80	1.6%	20.20	3.6%	2024-06-07
D1800V2 S/N: 291	EX3DV4 S/N: 7852	1800	37.80	19.70	35.00	-7.4%	18.60	-5.6%	2024-05-15
D1900V2 S/N: 5d009	EX3DV4 S/N: 7852	1900	39.10	20.60	40.90	4.6%	21.20	2.9%	2024-05-15
D1900V2 S/N: 5d009	EX3DV4 S/N: 3944	1900	39.10	20.60	40.50	3.6%	21.10	2.4%	2024-06-07
D2600V2 S/N: 1040	EX3DV4 S/N: 7852	2600	56.20	25.40	53.10	-5.5%	23.90	-5.9%	2024-05-16
D2600V2 S/N: 1040	EX3DV4 S/N: 3944	2600	56.20	25.40	53.60	-4.6%	24.20	-4.7%	2024-06-06
D3500V2 S/N: 1003	EX3DV4 S/N: 3944	3500	66.40	25.00	66.40	0.0%	25.70	2.8%	2024-06-05
D3700V2 S/N: 1062	EX3DV4 S/N: 3944	3700	68.30	24.80	67.20	-1.6%	25.20	1.6%	2024-06-05

Table 7: Results system check

7.1.14 System check procedure

The system check is performed by using a validation dipole which is positioned parallel to the planar part of the SAM phantom at the reference point. The distance of the dipole to the SAM phantom is determined by a plexiglass spacer. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 100 mW or 50 mW if used Powersource1. To adjust this power a power meter is used. The power sensor is connected to the cable before the system check to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the validation to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).
System check results have to be equal or near the values determined during dipole calibration (target SAR in table above) with the relevant liquids and test system.



7.1.15 System validation

The system validation is performed in a similar way as a system check. It needs to be performed once a SAR measurement system has been established and allows an evaluation of the system accuracy with all components used together with the specified system. It has to be repeated at least once a year or when new system components are used (DAE, probe, phantom, dipole, liquid type).
In addition to the procedure used during system check a system validation also includes checks of probe isotropy, probe modulation factor and RF signal.

8 Detailed Test Results

8.1 Conducted power measurements

For the measurements the Anritsu MT8000A were used.
The output power was measured using an integrated RF connector and attached RF cable.

8.1.1 Conducted power measurements WCDMA FDD V (850 MHz)

Max. RMS output power 850 MHz (FDD V) / dBm			
mode	CH 4132 / 826.4 MHz	CH 4182 / 836.6 MHz	CH 4233 / 846.6 MHz
RMC 12.2 kbit/s	**22.7**	**22.7**	**22.2**
RMC 64 kbit/s	22.6	22.6	22.1
RMC 144 kbit/s	22.6	22.7	22.1
RMC 384 kbit/s	22.7	22.7	22.1
HSDPA Sub test 1	**22.6**	**22.7**	**22.1**
HSDPA Sub test 2	21.8	21.7	21.3
HSDPA Sub test 3	21.2	21.2	20.7
HSDPA Sub test 4	21.2	21.2	20.7
DC-HSDPA Sub test 1	**22.6**	**22.7**	**22.2**
DC-HSDPA Sub test 2	21.7	21.7	21.3
DC-HSDPA Sub test 3	21.2	21.2	20.8
DC-HSDPA Sub test 4	21.3	21.2	20.7
HSUPA Sub test 1	22.7	22.6	22.1
HSUPA Sub test 2	20.7	20.7	20.3
HSUPA Sub test 3	21.8	21.9	21.4
HSUPA Sub test 4	20.7	20.6	20.2
HSUPA Sub test 5	**21.8**	**21.8**	**21.2**

Table 8: Test results conducted power measurement UMTS FDD V 850MHz

8.1.2 Conducted power measurements WCDMA FDD IV (1700 MHz)

Max. RMS output power FDD IV (1700MHz) / dBm			
mode	CH 1312 / 1712.4 MHz	CH 1412 / 1732.4 MHz	CH 1513 / 1752.6 MHz
RMC 12.2 kbit/s	**22.1**	**22.3**	**22.1**
RMC 64 kbit/s	22.1	22.3	22.0
RMC 144 kbit/s	22.0	22.2	22.0
RMC 384 kbit/s	22.0	22.2	22.1
HSDPA Sub test 1	**22.1**	**22.2**	**22.0**
HSDPA Sub test 2	21.2	21.3	21.1
HSDPA Sub test 3	20.6	20.8	20.6
HSDPA Sub test 4	20.7	20.8	20.6
DC-HSDPA Sub test 1	**22.1**	**22.3**	**22.0**
DC-HSDPA Sub test 2	21.2	21.4	21.2
DC-HSDPA Sub test 3	20.6	20.9	20.6
DC-HSDPA Sub test 4	20.6	20.8	20.6
HSUPA Sub test 1	22.0	22.3	22.0
HSUPA Sub test 2	20.1	20.4	20.1
HSUPA Sub test 3	21.2	21.4	21.2
HSUPA Sub test 4	20.1	20.3	20.1
HSUPA Sub test 5	**21.1**	**21.3**	**21.2**

Table 9: Test results conducted power measurement UMTS FDD IV 1700MHz

8.1.3 Conducted power measurements WCDMA FDD II (1900 MHz)

Max. RMS output power 1900 MHz (FDD II) / dBm			
	Channel / frequency		
mode	9262 / 1852.4 MHz	9400 / 1880.0 MHz	9538 / 1907.6 MHz
RMC 12.2 kbit/s	**22.2**	**22.2**	**22.1**
RMC 64 kbit/s	22.1	22.2	22.1
RMC 144 kbit/s	22.2	22.2	22.0
RMC 384 kbit/s	22.2	22.1	22.1
HSDPA Sub test 1	**22.1**	**22.2**	**22.1**
HSDPA Sub test 2	21.2	21.2	21.2
HSDPA Sub test 3	20.8	20.7	20.6
HSDPA Sub test 4	20.8	20.7	20.6
DC-HSDPA Sub test 1	**22.1**	**22.2**	**22.0**
DC-HSDPA Sub test 2	21.3	21.3	21.2
DC-HSDPA Sub test 3	20.7	20.7	20.7
DC-HSDPA Sub test 4	20.7	20.7	20.6
HSUPA Sub test 1	22.2	22.1	22.1
HSUPA Sub test 2	20.2	20.3	20.2
HSUPA Sub test 3	21.4	21.4	21.3
HSUPA Sub test 4	20.2	20.1	20.1
HSUPA Sub test 5	**21.3**	**21.3**	**21.1**

Table 10: Test results conducted power measurement UMTS FDD II 1900MHz

Remark: None of the HSDPA/HSUPA settings leads to conducted power values exceeding the conducted power in RMC mode by more than 0.25 dB.
Therefore no additional SAR measurements were performed in HSDPA/HSUPA mode.

8.1.4 Test-set-up information for WCDMA / HSPDA / HSUPA

a) WCDMA RMC

In RMC (reference measurement channel) mode the conducted power at 4 different bit rates was measured. They correspond with the used spreading factors as follows:

Bit rate	***12.2 kbit/s***	***64 kbit/s***	***144 kbit/s***	***384 kbit/s***
Spreading factor (SF)	64	16	8	4

In RMC mode only DPCCH and DPDCH are active. As bit rate changes do not influence the relative power of any code channel the measured RMS output power remains on the same level which is set to maximum by TPC (Transmit power control) pattern type 'All 1'.

b) HSDPA

HSDPA adds the HS-DPCCH in uplink as a control channel for high speed data transfer in downlink.
In HSDPA mode 4 sub-tests are defined by 3GPP 34.121 according to the following table:

Sub-test	β_c	β_d	β_d **(SF)**	β_c/β_d	β_{hs}(1)	**CM(dB)**(2)
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1: Δ_{ACK}, Δ_{NACK}, Δ_{CQI} = 8 $\Leftrightarrow$ $A_{hs} = \beta_{hs}/\beta_c$ = 30/15 $\Leftrightarrow$ β_{hs} = 30/15 * β_c
Note 2 : CM = 1 for β_c/β_d = 12/15, β_{hs}/β_c = 24/15
Note 3 : 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 signalled gain factors for the reference TFC (TF1,TF1) to β_c = 11/15 and β_d = 15/15

Table 11: Sub-tests for UMTS Release 5 HSDPA

The β_c and β_d gain factors for DPCCH and DPDCH were set according to the values in the above table, β_{hs} for HS-DPCCH is set automatically to the correct value when Δ_{ACK}, Δ_{NACK}, Δ_{CQI} = 8. The variation of the β_c/β_d ratio causes a power reduction at sub-tests 2 - 4.
The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Parameter	***Value***
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI's
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 12: settings of required H-Set 1 QPSK acc. to 3GPP 34.121

c) DC-HSDPA (3GPP Release 8)

Dual Cell – HSDPA has been signalized using the following settings for connection setup:

Parameter During Connection Setup	Value
P-CPICH_Ec/Ior	-10 dB
P-CCPCH	-12
SCH_Ec/Ior	-12
PICH_Ec/Ior	-15
HS-PDSCH	off
HS-SCCH_1	off
DPCH_Ec/Ior	-5
OCNS_Ec/Ior	-3.1

Table 13: Downlink Physical Channels according to 3GPP 34.121 Table E.5.0

The fixed reference channel has been set to H-set 12 according to 3GPP TS 34.121 Table C.8.1.12:

Parameter	Unit	Value
Nominal Average Inf. Bit Rate	kbit/s	60
Inter-TTI Distance	TTI's	1
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Process	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codecs	Codecs	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table. Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

Table 14: H-Set 12 QPSK configuration

The same Sub-test settings as for Release 5 HSDPA were used for the tests.

d) HSUPA

In HSUPA mode additional code channels (E-DPCCH, E-DPDCHn) are added for data transfer in uplink at higher bit rates.

5 sub-tests are defined by 3GPP 34.121 according to the following table:

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs}(1)	β_{ec}	β_{ed}	β_{ec} (SF)	β_{ed} (code)	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

Note 1: Δ_{ACK}, Δ_{NACK}, Δ_{CQI} = 8 $\Longleftrightarrow$ $A_{hs} = \beta_{hs}/\beta_c$ = 30/15 $\Longleftrightarrow$ β_{hs} = 30/15 * β_c
Note 2 : CM = 1 for β_c/β_d = 12/15, β_{hs}/β_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
Note 3 : For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1,TF1) to β_c = 10/15 and β_d = 15/15
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 signalled gain factors for the reference TFC (TF1,TF1) to β_c = 14/15 and β_d = 15/15
Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g
Note 6 : β_{ed} can not be set directly; it is set by Absolute Grant Value

Table 15: Subtests for UMTS Release 6 HSUPA

To achieve the settings above some additional procedures were defined by 3GPP 34.121. Those have been included in an application note for the CMU200 and were exactly followed:

- Test mode connection (BS signal tab):
RMC 12.2 kbit/s + HSPA 34.108 with loop mode 1
- HS-DSCH settings (BS signal tab):
- FRC with H-set 1 QPSK
- ACK-NACK repetition factor = 3
- CQI feedback cycle = 4ms
- CQI repetition factor = 2
- HSUPA-specific signalling settings (UE signal tab):
- E-TFCI table index = 0
- E-DCH minimum set E-TFCI = 9
- Puncturing limit non-max = 0.84
- max. number of channelisation codes = 2x SF4
- Initial Serving Grant Value = Off
- HSDPA and HSUPA Gain factors (UE signal tab)

Sub-test	β_c	β_d	Δ_{ACK}, Δ_{NACK}, Δ_{CQI}	ΔE–DPCCH)*
1	10	15	8	6
2	6	15	8	8
3	15	9	8	8
4	2	15	8	5
5	14	15	8	7

)* : β_{ec} and β_{ed} ratios (relative to β_c and β_d) are set by ΔE–DPCCH

- HSUPA Reference E-TFCIs (UE signal tab > HSUPA gain factors):

Sub-test	**1, 2, 4, 5**				
Number of E-TFCIs	5				
Reference E-TFCI	11	67	71	75	81
Reference E-TFCI power offset	4	18	23	26	27

Sub-test	**3**	
Number of E-TFCIs	2	
Reference E-TFCI	11	92
Reference E-TFCI power offset	4	18

- HSUPA-specific generator parameters (BS Signal tab > HSUPA > E-AGCH > AG Pattern)

Sub-test	***Absolute Grant Value (AG Index)***
1	20
2	12
3	15
4	17
5	21

- Power Level settings (BS Signal tab > Node B-settings):
- Level reference: Output Channel Power (Ior)
- Output Channel Power (Ior): -86 dBm

- Downlink Physical Channel Settings (BS signal tab)
- P-CPICH: -10 dB
- S-CPICH: Off
- P-SCH: -15 dB
- S-SCH : -15 dB
- P-CCPCH: -12 dB
- S-CCPCH: -12 dB
- PICH : -15 dB
- AICH : -12 dB
- DPDCH : -10 dB
- HS-SCCH : -8 dB
- HS-PDSCH : -3 dB
- E-AGCH : -20 dB
- E-RGCH/E-HICH - 20 dB
- E-RGCH Active: Off

The settings above were stored once for each sub-test and recalled before the measurement.

HSUPA test procedure:

To reach maximum output power in HSUPA mode the following procedures were followed:

3 different TPC patterns were defined:
Set 1 : Closed loop with target power 10 dBm
Set 2 : Single Pattern+Alternating with binary pattern '11111' for 1 dB steps 'up'
Set 3 : Single Pattern+Alternating with binary pattern '00000' for 1 dB steps 'down'

After recalling a certain HSUPA sub-test the HSUPA E-AGCH graph with E-TFCI event counter is displayed. After starting with the closed loop command the power is increased in 1 dB steps by activating pattern set 2 until the UE decreases the transmitted E-TFCI.
At this point set 3 is activated once to reduce the output power to the value at which the original E-TFCI, which is required for the sub-test, appears again.

For conducted power measurements the same steps are repeated in the power menu to read out the corresponding maximum RMS output power with the target E-TFCI.
For SAR measurements it is useful to switch to Code Domain Power vs. Time display.
Here the CMU200 shows relative power values (max. and min.) of each code channel which should roughly correspond to the numerators of the gain factors e.g.:

Sub-test	β_c	β_d	β_{hs}	β_{ec}	β_{ed}
5	15	15	30	24	134

By this way a surveillance of signalling conditions is possible to make sure that HSUPA code channels are active during the complete SAR measurement.

8.1.5 Conducted power measurements LTE

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1850.7	18607	1.4	RB_1_low	QPSK	23.20
low	1850.7	18607	1.4	RB_1_low	16QAM	21.98
low	1850.7	18607	1.4	RB_1_low	64QAM	21.48
low	1850.7	18607	1.4	RB_1_mid	QPSK	23.27
low	1850.7	18607	1.4	RB_1_mid	16QAM	22.16
low	1850.7	18607	1.4	RB_1_mid	64QAM	21.53
low	1850.7	18607	1.4	RB_1_high	QPSK	23.19
low	1850.7	18607	1.4	RB_1_high	16QAM	22.10
low	1850.7	18607	1.4	RB_1_high	64QAM	21.50
low	1850.7	18607	1.4	RB_50%_low	QPSK	23.10
low	1850.7	18607	1.4	RB_50%_low	16QAM	22.40
low	1850.7	18607	1.4	RB_50%_low	64QAM	21.22
low	1850.7	18607	1.4	RB_50%_mid	QPSK	23.13
low	1850.7	18607	1.4	RB_50%_mid	16QAM	22.47
low	1850.7	18607	1.4	RB_50%_mid	64QAM	21.28
low	1850.7	18607	1.4	RB_50%_high	QPSK	23.11
low	1850.7	18607	1.4	RB_50%_high	16QAM	22.44
low	1850.7	18607	1.4	RB_50%_high	64QAM	21.23
low	1850.7	18607	1.4	RB_100%	QPSK	22.17
low	1850.7	18607	1.4	RB_100%	16QAM	21.33
low	1850.7	18607	1.4	RB_100%	64QAM	20.54
mid	1880	18900	1.4	RB_1_low	QPSK	22.91
mid	1880	18900	1.4	RB_1_low	16QAM	21.81
mid	1880	18900	1.4	RB_1_low	64QAM	21.45
mid	1880	18900	1.4	RB_1_mid	QPSK	22.97
mid	1880	18900	1.4	RB_1_mid	16QAM	21.93
mid	1880	18900	1.4	RB_1_mid	64QAM	21.48
mid	1880	18900	1.4	RB_1_high	QPSK	23.03
mid	1880	18900	1.4	RB_1_high	16QAM	21.88
mid	1880	18900	1.4	RB_1_high	64QAM	21.29
mid	1880	18900	1.4	RB_50%_low	QPSK	22.83
mid	1880	18900	1.4	RB_50%_low	16QAM	22.20
mid	1880	18900	1.4	RB_50%_low	64QAM	21.02
mid	1880	18900	1.4	RB_50%_mid	QPSK	22.97
mid	1880	18900	1.4	RB_50%_mid	16QAM	22.19
mid	1880	18900	1.4	RB_50%_mid	64QAM	21.08
mid	1880	18900	1.4	RB_50%_high	QPSK	22.85
mid	1880	18900	1.4	RB_50%_high	16QAM	22.13
mid	1880	18900	1.4	RB_50%_high	64QAM	21.11
mid	1880	18900	1.4	RB_100%	QPSK	21.93
mid	1880	18900	1.4	RB_100%	16QAM	21.03
mid	1880	18900	1.4	RB_100%	64QAM	20.01

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	Pavg [dBm]
high	1909.3	19193	1.4	RB_1_low	QPSK	22.95
high	1909.3	19193	1.4	RB_1_low	16QAM	21.87
high	1909.3	19193	1.4	RB_1_low	64QAM	21.20
high	1909.3	19193	1.4	RB_1_mid	QPSK	23.01
high	1909.3	19193	1.4	RB_1_mid	16QAM	21.90
high	1909.3	19193	1.4	RB_1_mid	64QAM	21.20
high	1909.3	19193	1.4	RB_1_high	QPSK	22.94
high	1909.3	19193	1.4	RB_1_high	16QAM	21.87
high	1909.3	19193	1.4	RB_1_high	64QAM	21.19
high	1909.3	19193	1.4	RB_50%_low	QPSK	22.86
high	1909.3	19193	1.4	RB_50%_low	16QAM	22.21
high	1909.3	19193	1.4	RB_50%_low	64QAM	21.00
high	1909.3	19193	1.4	RB_50%_mid	QPSK	22.90
high	1909.3	19193	1.4	RB_50%_mid	16QAM	22.23
high	1909.3	19193	1.4	RB_50%_mid	64QAM	21.03
high	1909.3	19193	1.4	RB_50%_high	QPSK	22.88
high	1909.3	19193	1.4	RB_50%_high	16QAM	22.21
high	1909.3	19193	1.4	RB_50%_high	64QAM	21.06
high	1909.3	19193	1.4	RB_100%	QPSK	21.90
high	1909.3	19193	1.4	RB_100%	16QAM	21.05
high	1909.3	19193	1.4	RB_100%	64QAM	20.26
low	1851.5	18615	3	RB_1_low	QPSK	23.30
low	1851.5	18615	3	RB_1_low	16QAM	22.04
low	1851.5	18615	3	RB_1_low	64QAM	21.49
low	1851.5	18615	3	RB_1_mid	QPSK	23.26
low	1851.5	18615	3	RB_1_mid	16QAM	22.02
low	1851.5	18615	3	RB_1_mid	64QAM	21.51
low	1851.5	18615	3	RB_1_high	QPSK	23.27
low	1851.5	18615	3	RB_1_high	16QAM	22.01
low	1851.5	18615	3	RB_1_high	64QAM	21.56
low	1851.5	18615	3	RB_50%_low	QPSK	22.24
low	1851.5	18615	3	RB_50%_low	16QAM	21.26
low	1851.5	18615	3	RB_50%_low	64QAM	20.56
low	1851.5	18615	3	RB_50%_mid	QPSK	22.30
low	1851.5	18615	3	RB_50%_mid	16QAM	21.29
low	1851.5	18615	3	RB_50%_mid	64QAM	20.61
low	1851.5	18615	3	RB_50%_high	QPSK	22.38
low	1851.5	18615	3	RB_50%_high	16QAM	21.36
low	1851.5	18615	3	RB_50%_high	64QAM	20.60
low	1851.5	18615	3	RB_100%	QPSK	22.27
low	1851.5	18615	3	RB_100%	16QAM	21.37
low	1851.5	18615	3	RB_100%	64QAM	20.33

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	Pavg [dBm]
mid	1880	18900	3	RB_1_low	QPSK	22.89
mid	1880	18900	3	RB_1_low	16QAM	21.83
mid	1880	18900	3	RB_1_low	64QAM	21.22
mid	1880	18900	3	RB_1_mid	QPSK	22.93
mid	1880	18900	3	RB_1_mid	16QAM	21.79
mid	1880	18900	3	RB_1_mid	64QAM	21.17
mid	1880	18900	3	RB_1_high	QPSK	23.01
mid	1880	18900	3	RB_1_high	16QAM	21.83
mid	1880	18900	3	RB_1_high	64QAM	21.24
mid	1880	18900	3	RB_50%_low	QPSK	22.04
mid	1880	18900	3	RB_50%_low	16QAM	21.07
mid	1880	18900	3	RB_50%_low	64QAM	20.19
mid	1880	18900	3	RB_50%_mid	QPSK	22.02
mid	1880	18900	3	RB_50%_mid	16QAM	21.07
mid	1880	18900	3	RB_50%_mid	64QAM	20.15
mid	1880	18900	3	RB_50%_high	QPSK	22.08
mid	1880	18900	3	RB_50%_high	16QAM	21.10
mid	1880	18900	3	RB_50%_high	64QAM	20.20
mid	1880	18900	3	RB_100%	QPSK	21.98
mid	1880	18900	3	RB_100%	16QAM	21.10
mid	1880	18900	3	RB_100%	64QAM	20.00
high	1908.5	19185	3	RB_1_low	QPSK	23.01
high	1908.5	19185	3	RB_1_low	16QAM	21.79
high	1908.5	19185	3	RB_1_low	64QAM	21.34
high	1908.5	19185	3	RB_1_mid	QPSK	23.05
high	1908.5	19185	3	RB_1_mid	16QAM	21.93
high	1908.5	19185	3	RB_1_mid	64QAM	21.33
high	1908.5	19185	3	RB_1_high	QPSK	23.11
high	1908.5	19185	3	RB_1_high	16QAM	21.84
high	1908.5	19185	3	RB_1_high	64QAM	21.31
high	1908.5	19185	3	RB_50%_low	QPSK	22.06
high	1908.5	19185	3	RB_50%_low	16QAM	21.07
high	1908.5	19185	3	RB_50%_low	64QAM	20.33
high	1908.5	19185	3	RB_50%_mid	QPSK	22.09
high	1908.5	19185	3	RB_50%_mid	16QAM	21.05
high	1908.5	19185	3	RB_50%_mid	64QAM	20.39
high	1908.5	19185	3	RB_50%_high	QPSK	22.10
high	1908.5	19185	3	RB_50%_high	16QAM	21.05
high	1908.5	19185	3	RB_50%_high	64QAM	20.37
high	1908.5	19185	3	RB_100%	QPSK	22.03
high	1908.5	19185	3	RB_100%	16QAM	21.12
high	1908.5	19185	3	RB_100%	64QAM	20.16

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	Pavg [dBm]
low	1852.5	18625	5	RB_1_low	QPSK	23.18
low	1852.5	18625	5	RB_1_low	16QAM	22.45
low	1852.5	18625	5	RB_1_low	64QAM	21.77
low	1852.5	18625	5	RB_1_mid	QPSK	23.20
low	1852.5	18625	5	RB_1_mid	16QAM	22.49
low	1852.5	18625	5	RB_1_mid	64QAM	21.81
low	1852.5	18625	5	RB_1_high	QPSK	23.16
low	1852.5	18625	5	RB_1_high	16QAM	22.45
low	1852.5	18625	5	RB_1_high	64QAM	21.88
low	1852.5	18625	5	RB_50%_low	QPSK	22.22
low	1852.5	18625	5	RB_50%_low	16QAM	21.36
low	1852.5	18625	5	RB_50%_low	64QAM	20.36
low	1852.5	18625	5	RB_50%_mid	QPSK	22.33
low	1852.5	18625	5	RB_50%_mid	16QAM	21.41
low	1852.5	18625	5	RB_50%_mid	64QAM	20.39
low	1852.5	18625	5	RB_50%_high	QPSK	22.26
low	1852.5	18625	5	RB_50%_high	16QAM	21.45
low	1852.5	18625	5	RB_50%_high	64QAM	20.40
low	1852.5	18625	5	RB_100%	QPSK	22.34
low	1852.5	18625	5	RB_100%	16QAM	21.15
low	1852.5	18625	5	RB_100%	64QAM	20.24
mid	1880	18900	5	RB_1_low	QPSK	22.95
mid	1880	18900	5	RB_1_low	16QAM	22.18
mid	1880	18900	5	RB_1_low	64QAM	20.50
mid	1880	18900	5	RB_1_mid	QPSK	22.99
mid	1880	18900	5	RB_1_mid	16QAM	22.33
mid	1880	18900	5	RB_1_mid	64QAM	20.59
mid	1880	18900	5	RB_1_high	QPSK	23.07
mid	1880	18900	5	RB_1_high	16QAM	22.30
mid	1880	18900	5	RB_1_high	64QAM	20.66
mid	1880	18900	5	RB_50%_low	QPSK	22.00
mid	1880	18900	5	RB_50%_low	16QAM	21.14
mid	1880	18900	5	RB_50%_low	64QAM	19.99
mid	1880	18900	5	RB_50%_mid	QPSK	22.06
mid	1880	18900	5	RB_50%_mid	16QAM	21.13
mid	1880	18900	5	RB_50%_mid	64QAM	19.99
mid	1880	18900	5	RB_50%_high	QPSK	22.10
mid	1880	18900	5	RB_50%_high	16QAM	21.21
mid	1880	18900	5	RB_50%_high	64QAM	20.07
mid	1880	18900	5	RB_100%	QPSK	22.01
mid	1880	18900	5	RB_100%	16QAM	20.99
mid	1880	18900	5	RB_100%	64QAM	20.07

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	Pavg [dBm]
high	1907.5	19175	5	RB_1_low	QPSK	22.92
high	1907.5	19175	5	RB_1_low	16QAM	22.19
high	1907.5	19175	5	RB_1_low	64QAM	21.53
high	1907.5	19175	5	RB_1_mid	QPSK	22.99
high	1907.5	19175	5	RB_1_mid	16QAM	22.27
high	1907.5	19175	5	RB_1_mid	64QAM	21.62
high	1907.5	19175	5	RB_1_high	QPSK	22.98
high	1907.5	19175	5	RB_1_high	16QAM	22.27
high	1907.5	19175	5	RB_1_high	64QAM	21.73
high	1907.5	19175	5	RB_50%_low	QPSK	22.05
high	1907.5	19175	5	RB_50%_low	16QAM	21.17
high	1907.5	19175	5	RB_50%_low	64QAM	20.13
high	1907.5	19175	5	RB_50%_mid	QPSK	22.12
high	1907.5	19175	5	RB_50%_mid	16QAM	21.16
high	1907.5	19175	5	RB_50%_mid	64QAM	20.17
high	1907.5	19175	5	RB_50%_high	QPSK	22.10
high	1907.5	19175	5	RB_50%_high	16QAM	21.20
high	1907.5	19175	5	RB_50%_high	64QAM	20.20
high	1907.5	19175	5	RB_100%	QPSK	22.02
high	1907.5	19175	5	RB_100%	16QAM	20.98
high	1907.5	19175	5	RB_100%	64QAM	20.08
low	1855	18650	10	RB_1_low	QPSK	23.25
low	1855	18650	10	RB_1_low	16QAM	22.03
low	1855	18650	10	RB_1_low	64QAM	21.53
low	1855	18650	10	RB_1_mid	QPSK	23.27
low	1855	18650	10	RB_1_mid	16QAM	21.95
low	1855	18650	10	RB_1_mid	64QAM	21.44
low	1855	18650	10	RB_1_high	QPSK	**23.32**
low	1855	18650	10	RB_1_high	16QAM	21.83
low	1855	18650	10	RB_1_high	64QAM	21.53
low	1855	18650	10	RB_50%_low	QPSK	22.23
low	1855	18650	10	RB_50%_low	16QAM	21.24
low	1855	18650	10	RB_50%_low	64QAM	20.31
low	1855	18650	10	RB_50%_mid	QPSK	22.29
low	1855	18650	10	RB_50%_mid	16QAM	21.33
low	1855	18650	10	RB_50%_mid	64QAM	20.37
low	1855	18650	10	RB_50%_high	QPSK	22.26
low	1855	18650	10	RB_50%_high	16QAM	21.27
low	1855	18650	10	RB_50%_high	64QAM	20.32
low	1855	18650	10	RB_100%	QPSK	22.27
low	1855	18650	10	RB_100%	16QAM	21.13
low	1855	18650	10	RB_100%	64QAM	20.25

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	Pavg [dBm]
mid	1880	18900	10	RB_1_low	QPSK	22.88
mid	1880	18900	10	RB_1_low	16QAM	22.00
mid	1880	18900	10	RB_1_low	64QAM	21.14
mid	1880	18900	10	RB_1_mid	QPSK	23.00
mid	1880	18900	10	RB_1_mid	16QAM	21.78
mid	1880	18900	10	RB_1_mid	64QAM	21.36
mid	1880	18900	10	RB_1_high	QPSK	23.10
mid	1880	18900	10	RB_1_high	16QAM	22.06
mid	1880	18900	10	RB_1_high	64QAM	21.32
mid	1880	18900	10	RB_50%_low	QPSK	22.07
mid	1880	18900	10	RB_50%_low	16QAM	21.01
mid	1880	18900	10	RB_50%_low	64QAM	20.00
mid	1880	18900	10	RB_50%_mid	QPSK	22.17
mid	1880	18900	10	RB_50%_mid	16QAM	21.14
mid	1880	18900	10	RB_50%_mid	64QAM	20.10
mid	1880	18900	10	RB_50%_high	QPSK	22.16
mid	1880	18900	10	RB_50%_high	16QAM	21.24
mid	1880	18900	10	RB_50%_high	64QAM	20.05
mid	1880	18900	10	RB_100%	QPSK	22.16
mid	1880	18900	10	RB_100%	16QAM	21.00
mid	1880	18900	10	RB_100%	64QAM	20.18
high	1905	19150	10	RB_1_low	QPSK	23.13
high	1905	19150	10	RB_1_low	16QAM	21.85
high	1905	19150	10	RB_1_low	64QAM	21.26
high	1905	19150	10	RB_1_mid	QPSK	23.09
high	1905	19150	10	RB_1_mid	16QAM	21.85
high	1905	19150	10	RB_1_mid	64QAM	21.26
high	1905	19150	10	RB_1_high	QPSK	23.13
high	1905	19150	10	RB_1_high	16QAM	21.76
high	1905	19150	10	RB_1_high	64QAM	21.28
high	1905	19150	10	RB_50%_low	QPSK	21.96
high	1905	19150	10	RB_50%_low	16QAM	21.02
high	1905	19150	10	RB_50%_low	64QAM	20.01
high	1905	19150	10	RB_50%_mid	QPSK	22.00
high	1905	19150	10	RB_50%_mid	16QAM	21.09
high	1905	19150	10	RB_50%_mid	64QAM	20.11
high	1905	19150	10	RB_50%_high	QPSK	22.03
high	1905	19150	10	RB_50%_high	16QAM	21.17
high	1905	19150	10	RB_50%_high	64QAM	20.18
high	1905	19150	10	RB_100%	QPSK	22.07
high	1905	19150	10	RB_100%	16QAM	20.92
high	1905	19150	10	RB_100%	64QAM	20.06

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	Pavg [dBm]
low	1857.5	18675	15	RB_1_low	QPSK	23.29
low	1857.5	18675	15	RB_1_low	16QAM	21.87
low	1857.5	18675	15	RB_1_low	64QAM	22.08
low	1857.5	18675	15	RB_1_mid	QPSK	23.22
low	1857.5	18675	15	RB_1_mid	16QAM	22.21
low	1857.5	18675	15	RB_1_mid	64QAM	22.11
low	1857.5	18675	15	RB_1_high	QPSK	23.29
low	1857.5	18675	15	RB_1_high	16QAM	22.16
low	1857.5	18675	15	RB_1_high	64QAM	22.12
low	1857.5	18675	15	RB_50%_low	QPSK	22.25
low	1857.5	18675	15	RB_50%_low	16QAM	21.21
low	1857.5	18675	15	RB_50%_low	64QAM	20.30
low	1857.5	18675	15	RB_50%_mid	QPSK	22.31
low	1857.5	18675	15	RB_50%_mid	16QAM	21.28
low	1857.5	18675	15	RB_50%_mid	64QAM	20.21
low	1857.5	18675	15	RB_50%_high	QPSK	22.16
low	1857.5	18675	15	RB_50%_high	16QAM	21.21
low	1857.5	18675	15	RB_50%_high	64QAM	20.25
low	1857.5	18675	15	RB_100%	QPSK	22.13
low	1857.5	18675	15	RB_100%	16QAM	21.16
low	1857.5	18675	15	RB_100%	64QAM	20.28
mid	1880	18900	15	RB_1_low	QPSK	23.01
mid	1880	18900	15	RB_1_low	16QAM	21.86
mid	1880	18900	15	RB_1_low	64QAM	21.14
mid	1880	18900	15	RB_1_mid	QPSK	23.03
mid	1880	18900	15	RB_1_mid	16QAM	21.89
mid	1880	18900	15	RB_1_mid	64QAM	21.09
mid	1880	18900	15	RB_1_high	QPSK	23.10
mid	1880	18900	15	RB_1_high	16QAM	22.02
mid	1880	18900	15	RB_1_high	64QAM	21.38
mid	1880	18900	15	RB_50%_low	QPSK	22.03
mid	1880	18900	15	RB_50%_low	16QAM	21.01
mid	1880	18900	15	RB_50%_low	64QAM	20.10
mid	1880	18900	15	RB_50%_mid	QPSK	22.05
mid	1880	18900	15	RB_50%_mid	16QAM	21.09
mid	1880	18900	15	RB_50%_mid	64QAM	20.20
mid	1880	18900	15	RB_50%_high	QPSK	22.15
mid	1880	18900	15	RB_50%_high	16QAM	21.08
mid	1880	18900	15	RB_50%_high	64QAM	20.20
mid	1880	18900	15	RB_100%	QPSK	22.04
mid	1880	18900	15	RB_100%	16QAM	21.05
mid	1880	18900	15	RB_100%	64QAM	20.12

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	Pavg [dBm]
high	1902.5	19125	15	RB_1_low	QPSK	23.07
high	1902.5	19125	15	RB_1_low	16QAM	22.03
high	1902.5	19125	15	RB_1_low	64QAM	22.05
high	1902.5	19125	15	RB_1_mid	QPSK	23.10
high	1902.5	19125	15	RB_1_mid	16QAM	22.08
high	1902.5	19125	15	RB_1_mid	64QAM	22.15
high	1902.5	19125	15	RB_1_high	QPSK	23.19
high	1902.5	19125	15	RB_1_high	16QAM	21.97
high	1902.5	19125	15	RB_1_high	64QAM	22.06
high	1902.5	19125	15	RB_50%_low	QPSK	22.07
high	1902.5	19125	15	RB_50%_low	16QAM	21.08
high	1902.5	19125	15	RB_50%_low	64QAM	20.16
high	1902.5	19125	15	RB_50%_mid	QPSK	22.14
high	1902.5	19125	15	RB_50%_mid	16QAM	21.15
high	1902.5	19125	15	RB_50%_mid	64QAM	20.24
high	1902.5	19125	15	RB_50%_high	QPSK	22.09
high	1902.5	19125	15	RB_50%_high	16QAM	21.21
high	1902.5	19125	15	RB_50%_high	64QAM	20.18
high	1902.5	19125	15	RB_100%	QPSK	22.08
high	1902.5	19125	15	RB_100%	16QAM	21.17
high	1902.5	19125	15	RB_100%	64QAM	20.26
low	1860	18700	20	RB_1_low	QPSK	22.97
low	1860	18700	20	RB_1_low	16QAM	22.81
low	1860	18700	20	RB_1_low	64QAM	21.68
low	1860	18700	20	RB_1_mid	QPSK	22.96
low	1860	18700	20	RB_1_mid	16QAM	22.68
low	1860	18700	20	RB_1_mid	64QAM	21.65
low	**1860**	**18700**	**20**	**RB_1_high**	**QPSK**	**22.88**
low	1860	18700	20	RB_1_high	16QAM	22.59
low	1860	18700	20	RB_1_high	64QAM	21.48
low	1860	18700	20	RB_50%_low	QPSK	22.20
low	1860	18700	20	RB_50%_low	16QAM	21.27
low	1860	18700	20	RB_50%_low	64QAM	20.28
low	1860	18700	20	RB_50%_mid	QPSK	22.16
low	1860	18700	20	RB_50%_mid	16QAM	21.21
low	1860	18700	20	RB_50%_mid	64QAM	20.32
low	1860	18700	20	RB_50%_high	QPSK	22.18
low	1860	18700	20	RB_50%_high	16QAM	21.20
low	1860	18700	20	RB_50%_high	64QAM	20.20
low	1860	18700	20	RB_100%	QPSK	22.18
low	1860	18700	20	RB_100%	16QAM	21.23
low	1860	18700	20	RB_100%	64QAM	20.27

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	Pavg [dBm]
mid	1880	18900	20	RB_1_low	QPSK	22.92
mid	1880	18900	20	RB_1_low	16QAM	22.81
mid	1880	18900	20	RB_1_low	64QAM	21.49
mid	1880	18900	20	RB_1_mid	QPSK	22.84
mid	1880	18900	20	RB_1_mid	16QAM	22.56
mid	1880	18900	20	RB_1_mid	64QAM	21.51
mid	**1880**	**18900**	**20**	**RB_1_high**	**QPSK**	**23.04**
mid	1880	18900	20	RB_1_high	16QAM	22.69
mid	1880	18900	20	RB_1_high	64QAM	21.60
mid	1880	18900	20	RB_50%_low	QPSK	22.00
mid	1880	18900	20	RB_50%_low	16QAM	21.07
mid	1880	18900	20	RB_50%_low	64QAM	20.19
mid	1880	18900	20	RB_50%_mid	QPSK	22.05
mid	1880	18900	20	RB_50%_mid	16QAM	21.12
mid	1880	18900	20	RB_50%_mid	64QAM	20.19
mid	1880	18900	20	RB_50%_high	QPSK	22.09
mid	1880	18900	20	RB_50%_high	16QAM	21.17
mid	1880	18900	20	RB_50%_high	64QAM	20.24
mid	1880	18900	20	RB_100%	QPSK	22.04
mid	1880	18900	20	RB_100%	16QAM	21.13
mid	1880	18900	20	RB_100%	64QAM	20.14
high	1900	19100	20	RB_1_low	QPSK	22.90
high	1900	19100	20	RB_1_low	16QAM	22.64
high	1900	19100	20	RB_1_low	64QAM	21.43
high	1900	19100	20	RB_1_mid	QPSK	22.87
high	1900	19100	20	RB_1_mid	16QAM	22.60
high	1900	19100	20	RB_1_mid	64QAM	21.58
high	**1900**	**19100**	**20**	**RB_1_high**	**QPSK**	**22.91**
high	1900	19100	20	RB_1_high	16QAM	22.63
high	1900	19100	20	RB_1_high	64QAM	21.53
high	1900	19100	20	RB_50%_low	QPSK	22.01
high	1900	19100	20	RB_50%_low	16QAM	21.14
high	1900	19100	20	RB_50%_low	64QAM	20.12
high	1900	19100	20	RB_50%_mid	QPSK	22.13
high	1900	19100	20	RB_50%_mid	16QAM	21.14
high	1900	19100	20	RB_50%_mid	64QAM	20.21
high	**1900**	**19100**	**20**	**RB_50%_high**	**QPSK**	**22.20**
high	1900	19100	20	RB_50%_high	16QAM	21.17
high	1900	19100	20	RB_50%_high	64QAM	20.18
high	1900	19100	20	RB_100%	QPSK	22.20
high	1900	19100	20	RB_100%	16QAM	21.10
high	1900	19100	20	RB_100%	64QAM	20.16

Table 16: Test results conducted power measurement LTE FDD 2 1900 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1710.7	19957	1.4	RB_1_low	QPSK	23.20
low	1710.7	19957	1.4	RB_1_low	16QAM	22.00
low	1710.7	19957	1.4	RB_1_low	64QAM	21.13
low	1710.7	19957	1.4	RB_1_mid	QPSK	23.27
low	1710.7	19957	1.4	RB_1_mid	16QAM	22.21
low	1710.7	19957	1.4	RB_1_mid	64QAM	21.20
low	1710.7	19957	1.4	RB_1_high	QPSK	23.24
low	1710.7	19957	1.4	RB_1_high	16QAM	22.20
low	1710.7	19957	1.4	RB_1_high	64QAM	21.36
low	1710.7	19957	1.4	RB_50%_low	QPSK	23.14
low	1710.7	19957	1.4	RB_50%_low	16QAM	22.55
low	1710.7	19957	1.4	RB_50%_low	64QAM	21.38
low	1710.7	19957	1.4	RB_50%_mid	QPSK	23.16
low	1710.7	19957	1.4	RB_50%_mid	16QAM	22.63
low	1710.7	19957	1.4	RB_50%_mid	64QAM	21.52
low	1710.7	19957	1.4	RB_50%_high	QPSK	23.14
low	1710.7	19957	1.4	RB_50%_high	16QAM	22.64
low	1710.7	19957	1.4	RB_50%_high	64QAM	21.52
low	1710.7	19957	1.4	RB_100%	QPSK	22.26
low	1710.7	19957	1.4	RB_100%	16QAM	21.38
low	1710.7	19957	1.4	RB_100%	64QAM	20.68
mid	1732.5	20175	1.4	RB_1_low	QPSK	23.40
mid	1732.5	20175	1.4	RB_1_low	16QAM	22.30
mid	1732.5	20175	1.4	RB_1_low	64QAM	21.62
mid	1732.5	20175	1.4	RB_1_mid	QPSK	23.53
mid	1732.5	20175	1.4	RB_1_mid	16QAM	22.34
mid	1732.5	20175	1.4	RB_1_mid	64QAM	21.74
mid	1732.5	20175	1.4	RB_1_high	QPSK	23.44
mid	1732.5	20175	1.4	RB_1_high	16QAM	22.39
mid	1732.5	20175	1.4	RB_1_high	64QAM	21.70
mid	1732.5	20175	1.4	RB_50%_low	QPSK	23.23
mid	1732.5	20175	1.4	RB_50%_low	16QAM	22.82
mid	1732.5	20175	1.4	RB_50%_low	64QAM	21.44
mid	1732.5	20175	1.4	RB_50%_mid	QPSK	23.31
mid	1732.5	20175	1.4	RB_50%_mid	16QAM	22.79
mid	1732.5	20175	1.4	RB_50%_mid	64QAM	21.49
mid	1732.5	20175	1.4	RB_50%_high	QPSK	23.33
mid	1732.5	20175	1.4	RB_50%_high	16QAM	22.82
mid	1732.5	20175	1.4	RB_50%_high	64QAM	21.46
mid	1732.5	20175	1.4	RB_100%	QPSK	22.42
mid	1732.5	20175	1.4	RB_100%	16QAM	21.61
mid	1732.5	20175	1.4	RB_100%	64QAM	20.74

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	1754.3	20393	1.4	RB_1_low	QPSK	23.25
high	1754.3	20393	1.4	RB_1_low	16QAM	22.01
high	1754.3	20393	1.4	RB_1_low	64QAM	21.36
high	1754.3	20393	1.4	RB_1_mid	QPSK	23.21
high	1754.3	20393	1.4	RB_1_mid	16QAM	22.25
high	1754.3	20393	1.4	RB_1_mid	64QAM	21.36
high	1754.3	20393	1.4	RB_1_high	QPSK	23.28
high	1754.3	20393	1.4	RB_1_high	16QAM	22.23
high	1754.3	20393	1.4	RB_1_high	64QAM	21.20
high	1754.3	20393	1.4	RB_50%_low	QPSK	23.19
high	1754.3	20393	1.4	RB_50%_low	16QAM	22.63
high	1754.3	20393	1.4	RB_50%_low	64QAM	21.42
high	1754.3	20393	1.4	RB_50%_mid	QPSK	23.19
high	1754.3	20393	1.4	RB_50%_mid	16QAM	22.65
high	1754.3	20393	1.4	RB_50%_mid	64QAM	21.49
high	1754.3	20393	1.4	RB_50%_high	QPSK	23.20
high	1754.3	20393	1.4	RB_50%_high	16QAM	22.54
high	1754.3	20393	1.4	RB_50%_high	64QAM	21.41
high	1754.3	20393	1.4	RB_100%	QPSK	22.31
high	1754.3	20393	1.4	RB_100%	16QAM	21.37
high	1754.3	20393	1.4	RB_100%	64QAM	20.67
low	1711.5	19965	3	RB_1_low	QPSK	23.25
low	1711.5	19965	3	RB_1_low	16QAM	22.01
low	1711.5	19965	3	RB_1_low	64QAM	21.55
low	1711.5	19965	3	RB_1_mid	QPSK	23.35
low	1711.5	19965	3	RB_1_mid	16QAM	21.96
low	1711.5	19965	3	RB_1_mid	64QAM	21.66
low	1711.5	19965	3	RB_1_high	QPSK	23.34
low	1711.5	19965	3	RB_1_high	16QAM	22.14
low	1711.5	19965	3	RB_1_high	64QAM	21.49
low	1711.5	19965	3	RB_50%_low	QPSK	22.22
low	1711.5	19965	3	RB_50%_low	16QAM	21.25
low	1711.5	19965	3	RB_50%_low	64QAM	20.57
low	1711.5	19965	3	RB_50%_mid	QPSK	22.30
low	1711.5	19965	3	RB_50%_mid	16QAM	21.38
low	1711.5	19965	3	RB_50%_mid	64QAM	20.61
low	1711.5	19965	3	RB_50%_high	QPSK	22.32
low	1711.5	19965	3	RB_50%_high	16QAM	21.32
low	1711.5	19965	3	RB_50%_high	64QAM	20.68
low	1711.5	19965	3	RB_100%	QPSK	22.34
low	1711.5	19965	3	RB_100%	16QAM	21.41
low	1711.5	19965	3	RB_100%	64QAM	20.35

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1732.5	20175	3	RB_1_low	QPSK	23.43
mid	1732.5	20175	3	RB_1_low	16QAM	22.29
mid	1732.5	20175	3	RB_1_low	64QAM	21.66
mid	1732.5	20175	3	RB_1_mid	QPSK	23.36
mid	1732.5	20175	3	RB_1_mid	16QAM	22.35
mid	1732.5	20175	3	RB_1_mid	64QAM	21.68
mid	1732.5	20175	3	RB_1_high	QPSK	23.43
mid	1732.5	20175	3	RB_1_high	16QAM	22.27
mid	1732.5	20175	3	RB_1_high	64QAM	21.64
mid	1732.5	20175	3	RB_50%_low	QPSK	22.51
mid	1732.5	20175	3	RB_50%_low	16QAM	21.55
mid	1732.5	20175	3	RB_50%_low	64QAM	20.66
mid	1732.5	20175	3	RB_50%_mid	QPSK	22.58
mid	1732.5	20175	3	RB_50%_mid	16QAM	21.55
mid	1732.5	20175	3	RB_50%_mid	64QAM	20.65
mid	1732.5	20175	3	RB_50%_high	QPSK	22.62
mid	1732.5	20175	3	RB_50%_high	16QAM	21.60
mid	1732.5	20175	3	RB_50%_high	64QAM	20.71
mid	1732.5	20175	3	RB_100%	QPSK	22.49
mid	1732.5	20175	3	RB_100%	16QAM	21.57
mid	1732.5	20175	3	RB_100%	64QAM	20.46
high	1753.5	20385	3	RB_1_low	QPSK	23.33
high	1753.5	20385	3	RB_1_low	16QAM	22.09
high	1753.5	20385	3	RB_1_low	64QAM	21.48
high	1753.5	20385	3	RB_1_mid	QPSK	23.16
high	1753.5	20385	3	RB_1_mid	16QAM	22.00
high	1753.5	20385	3	RB_1_mid	64QAM	21.43
high	1753.5	20385	3	RB_1_high	QPSK	23.35
high	1753.5	20385	3	RB_1_high	16QAM	22.05
high	1753.5	20385	3	RB_1_high	64QAM	21.55
high	1753.5	20385	3	RB_50%_low	QPSK	22.26
high	1753.5	20385	3	RB_50%_low	16QAM	21.39
high	1753.5	20385	3	RB_50%_low	64QAM	20.58
high	1753.5	20385	3	RB_50%_mid	QPSK	22.28
high	1753.5	20385	3	RB_50%_mid	16QAM	21.33
high	1753.5	20385	3	RB_50%_mid	64QAM	20.70
high	1753.5	20385	3	RB_50%_high	QPSK	22.37
high	1753.5	20385	3	RB_50%_high	16QAM	21.42
high	1753.5	20385	3	RB_50%_high	64QAM	20.69
high	1753.5	20385	3	RB_100%	QPSK	22.29
high	1753.5	20385	3	RB_100%	16QAM	21.32
high	1753.5	20385	3	RB_100%	64QAM	20.35

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1712.5	19975	5	RB_1_low	QPSK	23.06
low	1712.5	19975	5	RB_1_low	16QAM	22.31
low	1712.5	19975	5	RB_1_low	64QAM	21.74
low	1712.5	19975	5	RB_1_mid	QPSK	23.17
low	1712.5	19975	5	RB_1_mid	16QAM	22.39
low	1712.5	19975	5	RB_1_mid	64QAM	21.89
low	1712.5	19975	5	RB_1_high	QPSK	23.17
low	1712.5	19975	5	RB_1_high	16QAM	22.47
low	1712.5	19975	5	RB_1_high	64QAM	21.98
low	1712.5	19975	5	RB_50%_low	QPSK	22.26
low	1712.5	19975	5	RB_50%_low	16QAM	21.44
low	1712.5	19975	5	RB_50%_low	64QAM	20.36
low	1712.5	19975	5	RB_50%_mid	QPSK	22.39
low	1712.5	19975	5	RB_50%_mid	16QAM	21.51
low	1712.5	19975	5	RB_50%_mid	64QAM	20.38
low	1712.5	19975	5	RB_50%_high	QPSK	22.38
low	1712.5	19975	5	RB_50%_high	16QAM	21.51
low	1712.5	19975	5	RB_50%_high	64QAM	20.46
low	1712.5	19975	5	RB_100%	QPSK	22.33
low	1712.5	19975	5	RB_100%	16QAM	21.26
low	1712.5	19975	5	RB_100%	64QAM	20.38
mid	1732.5	20175	5	RB_1_low	QPSK	23.45
mid	1732.5	20175	5	RB_1_low	16QAM	22.62
mid	1732.5	20175	5	RB_1_low	64QAM	20.89
mid	1732.5	20175	5	RB_1_mid	QPSK	23.53
mid	1732.5	20175	5	RB_1_mid	16QAM	22.72
mid	1732.5	20175	5	RB_1_mid	64QAM	21.09
mid	1732.5	20175	5	RB_1_high	QPSK	**23.55**
mid	1732.5	20175	5	RB_1_high	16QAM	22.73
mid	1732.5	20175	5	RB_1_high	64QAM	21.10
mid	1732.5	20175	5	RB_50%_low	QPSK	22.48
mid	1732.5	20175	5	RB_50%_low	16QAM	21.61
mid	1732.5	20175	5	RB_50%_low	64QAM	20.46
mid	1732.5	20175	5	RB_50%_mid	QPSK	22.62
mid	1732.5	20175	5	RB_50%_mid	16QAM	21.64
mid	1732.5	20175	5	RB_50%_mid	64QAM	20.58
mid	1732.5	20175	5	RB_50%_high	QPSK	22.62
mid	1732.5	20175	5	RB_50%_high	16QAM	21.74
mid	1732.5	20175	5	RB_50%_high	64QAM	20.48
mid	1732.5	20175	5	RB_100%	QPSK	22.49
mid	1732.5	20175	5	RB_100%	16QAM	21.39
mid	1732.5	20175	5	RB_100%	64QAM	20.55

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	1752.5	20375	5	RB_1_low	QPSK	23.14
high	1752.5	20375	5	RB_1_low	16QAM	22.43
high	1752.5	20375	5	RB_1_low	64QAM	21.93
high	1752.5	20375	5	RB_1_mid	QPSK	23.25
high	1752.5	20375	5	RB_1_mid	16QAM	22.48
high	1752.5	20375	5	RB_1_mid	64QAM	21.75
high	1752.5	20375	5	RB_1_high	QPSK	23.20
high	1752.5	20375	5	RB_1_high	16QAM	22.53
high	1752.5	20375	5	RB_1_high	64QAM	21.81
high	1752.5	20375	5	RB_50%_low	QPSK	22.30
high	1752.5	20375	5	RB_50%_low	16QAM	21.41
high	1752.5	20375	5	RB_50%_low	64QAM	20.38
high	1752.5	20375	5	RB_50%_mid	QPSK	22.36
high	1752.5	20375	5	RB_50%_mid	16QAM	21.54
high	1752.5	20375	5	RB_50%_mid	64QAM	20.41
high	1752.5	20375	5	RB_50%_high	QPSK	22.32
high	1752.5	20375	5	RB_50%_high	16QAM	21.50
high	1752.5	20375	5	RB_50%_high	64QAM	20.45
high	1752.5	20375	5	RB_100%	QPSK	22.35
high	1752.5	20375	5	RB_100%	16QAM	21.24
high	1752.5	20375	5	RB_100%	64QAM	20.27
low	1715	20000	10	RB_1_low	QPSK	23.26
low	1715	20000	10	RB_1_low	16QAM	22.22
low	1715	20000	10	RB_1_low	64QAM	21.61
low	1715	20000	10	RB_1_mid	QPSK	23.36
low	1715	20000	10	RB_1_mid	16QAM	22.05
low	1715	20000	10	RB_1_mid	64QAM	21.74
low	1715	20000	10	RB_1_high	QPSK	23.25
low	1715	20000	10	RB_1_high	16QAM	21.93
low	1715	20000	10	RB_1_high	64QAM	21.52
low	1715	20000	10	RB_50%_low	QPSK	22.34
low	1715	20000	10	RB_50%_low	16QAM	21.33
low	1715	20000	10	RB_50%_low	64QAM	20.26
low	1715	20000	10	RB_50%_mid	QPSK	22.36
low	1715	20000	10	RB_50%_mid	16QAM	21.45
low	1715	20000	10	RB_50%_mid	64QAM	20.39
low	1715	20000	10	RB_50%_high	QPSK	22.37
low	1715	20000	10	RB_50%_high	16QAM	21.39
low	1715	20000	10	RB_50%_high	64QAM	20.42
low	1715	20000	10	RB_100%	QPSK	22.41
low	1715	20000	10	RB_100%	16QAM	21.33
low	1715	20000	10	RB_100%	64QAM	20.36

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1732.5	20175	10	RB_1_low	QPSK	23.37
mid	1732.5	20175	10	RB_1_low	16QAM	22.34
mid	1732.5	20175	10	RB_1_low	64QAM	21.66
mid	1732.5	20175	10	RB_1_mid	QPSK	23.43
mid	1732.5	20175	10	RB_1_mid	16QAM	22.32
mid	1732.5	20175	10	RB_1_mid	64QAM	21.56
mid	1732.5	20175	10	RB_1_high	QPSK	23.40
mid	1732.5	20175	10	RB_1_high	16QAM	22.25
mid	1732.5	20175	10	RB_1_high	64QAM	21.57
mid	1732.5	20175	10	RB_50%_low	QPSK	22.52
mid	1732.5	20175	10	RB_50%_low	16QAM	21.55
mid	1732.5	20175	10	RB_50%_low	64QAM	20.39
mid	1732.5	20175	10	RB_50%_mid	QPSK	22.58
mid	1732.5	20175	10	RB_50%_mid	16QAM	21.57
mid	1732.5	20175	10	RB_50%_mid	64QAM	20.44
mid	1732.5	20175	10	RB_50%_high	QPSK	22.56
mid	1732.5	20175	10	RB_50%_high	16QAM	21.58
mid	1732.5	20175	10	RB_50%_high	64QAM	20.53
mid	1732.5	20175	10	RB_100%	QPSK	22.47
mid	1732.5	20175	10	RB_100%	16QAM	21.33
mid	1732.5	20175	10	RB_100%	64QAM	20.48
high	1750	20350	10	RB_1_low	QPSK	23.43
high	1750	20350	10	RB_1_low	16QAM	21.92
high	1750	20350	10	RB_1_low	64QAM	21.40
high	1750	20350	10	RB_1_mid	QPSK	23.42
high	1750	20350	10	RB_1_mid	16QAM	22.43
high	1750	20350	10	RB_1_mid	64QAM	21.45
high	1750	20350	10	RB_1_high	QPSK	23.27
high	1750	20350	10	RB_1_high	16QAM	22.11
high	1750	20350	10	RB_1_high	64QAM	21.41
high	1750	20350	10	RB_50%_low	QPSK	22.37
high	1750	20350	10	RB_50%_low	16QAM	21.49
high	1750	20350	10	RB_50%_low	64QAM	20.41
high	1750	20350	10	RB_50%_mid	QPSK	22.42
high	1750	20350	10	RB_50%_mid	16QAM	21.42
high	1750	20350	10	RB_50%_mid	64QAM	20.39
high	1750	20350	10	RB_50%_high	QPSK	22.42
high	1750	20350	10	RB_50%_high	16QAM	21.47
high	1750	20350	10	RB_50%_high	64QAM	20.36
high	1750	20350	10	RB_100%	QPSK	22.42
high	1750	20350	10	RB_100%	16QAM	21.35
high	1750	20350	10	RB_100%	64QAM	20.41

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1717.5	20025	15	RB_1_low	QPSK	23.36
low	1717.5	20025	15	RB_1_low	16QAM	22.07
low	1717.5	20025	15	RB_1_low	64QAM	22.24
low	1717.5	20025	15	RB_1_mid	QPSK	23.29
low	1717.5	20025	15	RB_1_mid	16QAM	22.18
low	1717.5	20025	15	RB_1_mid	64QAM	22.35
low	1717.5	20025	15	RB_1_high	QPSK	23.42
low	1717.5	20025	15	RB_1_high	16QAM	22.06
low	1717.5	20025	15	RB_1_high	64QAM	22.34
low	1717.5	20025	15	RB_50%_low	QPSK	22.34
low	1717.5	20025	15	RB_50%_low	16QAM	21.40
low	1717.5	20025	15	RB_50%_low	64QAM	20.35
low	1717.5	20025	15	RB_50%_mid	QPSK	22.38
low	1717.5	20025	15	RB_50%_mid	16QAM	21.39
low	1717.5	20025	15	RB_50%_mid	64QAM	20.36
low	1717.5	20025	15	RB_50%_high	QPSK	22.36
low	1717.5	20025	15	RB_50%_high	16QAM	21.39
low	1717.5	20025	15	RB_50%_high	64QAM	20.38
low	1717.5	20025	15	RB_100%	QPSK	22.41
low	1717.5	20025	15	RB_100%	16QAM	21.32
low	1717.5	20025	15	RB_100%	64QAM	20.44
mid	1732.5	20175	15	RB_1_low	QPSK	23.53
mid	1732.5	20175	15	RB_1_low	16QAM	22.27
mid	1732.5	20175	15	RB_1_low	64QAM	21.74
mid	1732.5	20175	15	RB_1_mid	QPSK	23.42
mid	1732.5	20175	15	RB_1_mid	16QAM	22.20
mid	1732.5	20175	15	RB_1_mid	64QAM	21.56
mid	1732.5	20175	15	RB_1_high	QPSK	23.33
mid	1732.5	20175	15	RB_1_high	16QAM	22.22
mid	1732.5	20175	15	RB_1_high	64QAM	21.55
mid	1732.5	20175	15	RB_50%_low	QPSK	22.53
mid	1732.5	20175	15	RB_50%_low	16QAM	21.55
mid	1732.5	20175	15	RB_50%_low	64QAM	20.64
mid	1732.5	20175	15	RB_50%_mid	QPSK	22.50
mid	1732.5	20175	15	RB_50%_mid	16QAM	21.49
mid	1732.5	20175	15	RB_50%_mid	64QAM	20.58
mid	1732.5	20175	15	RB_50%_high	QPSK	22.47
mid	1732.5	20175	15	RB_50%_high	16QAM	21.45
mid	1732.5	20175	15	RB_50%_high	64QAM	20.47
mid	1732.5	20175	15	RB_100%	QPSK	22.51
mid	1732.5	20175	15	RB_100%	16QAM	21.48
mid	1732.5	20175	15	RB_100%	64QAM	20.49

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	1747.5	20325	15	RB_1_low	QPSK	23.48
high	1747.5	20325	15	RB_1_low	16QAM	22.26
high	1747.5	20325	15	RB_1_low	64QAM	22.41
high	1747.5	20325	15	RB_1_mid	QPSK	23.41
high	1747.5	20325	15	RB_1_mid	16QAM	22.06
high	1747.5	20325	15	RB_1_mid	64QAM	22.24
high	1747.5	20325	15	RB_1_high	QPSK	23.40
high	1747.5	20325	15	RB_1_high	16QAM	21.94
high	1747.5	20325	15	RB_1_high	64QAM	22.16
high	1747.5	20325	15	RB_50%_low	QPSK	22.48
high	1747.5	20325	15	RB_50%_low	16QAM	21.48
high	1747.5	20325	15	RB_50%_low	64QAM	20.53
high	1747.5	20325	15	RB_50%_mid	QPSK	22.42
high	1747.5	20325	15	RB_50%_mid	16QAM	21.41
high	1747.5	20325	15	RB_50%_mid	64QAM	20.45
high	1747.5	20325	15	RB_50%_high	QPSK	22.38
high	1747.5	20325	15	RB_50%_high	16QAM	21.33
high	1747.5	20325	15	RB_50%_high	64QAM	20.39
high	1747.5	20325	15	RB_100%	QPSK	22.35
high	1747.5	20325	15	RB_100%	16QAM	21.44
high	1747.5	20325	15	RB_100%	64QAM	20.44
low	1720	20050	20	RB_1_low	QPSK	23.08
low	1720	20050	20	RB_1_low	16QAM	22.82
low	1720	20050	20	RB_1_low	64QAM	21.58
low	1720	20050	20	RB_1_mid	QPSK	23.01
low	1720	20050	20	RB_1_mid	16QAM	22.92
low	1720	20050	20	RB_1_mid	64QAM	21.75
low	**1720**	**20050**	**20**	**RB_1_high**	**QPSK**	**23.32**
low	1720	20050	20	RB_1_high	16QAM	23.04
low	1720	20050	20	RB_1_high	64QAM	21.88
low	1720	20050	20	RB_50%_low	QPSK	22.43
low	1720	20050	20	RB_50%_low	16QAM	21.43
low	1720	20050	20	RB_50%_low	64QAM	20.46
low	1720	20050	20	RB_50%_mid	QPSK	22.41
low	1720	20050	20	RB_50%_mid	16QAM	21.51
low	1720	20050	20	RB_50%_mid	64QAM	20.48
low	1720	20050	20	RB_50%_high	QPSK	22.46
low	1720	20050	20	RB_50%_high	16QAM	21.45
low	1720	20050	20	RB_50%_high	64QAM	20.43
low	1720	20050	20	RB_100%	QPSK	22.39
low	1720	20050	20	RB_100%	16QAM	21.49
low	1720	20050	20	RB_100%	64QAM	20.44

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1732.5	20175	20	RB_1_low	QPSK	23.27
mid	1732.5	20175	20	RB_1_low	16QAM	22.90
mid	1732.5	20175	20	RB_1_low	64QAM	21.91
mid	**1732.5**	**20175**	**20**	**RB_1_mid**	**QPSK**	**23.30**
mid	1732.5	20175	20	RB_1_mid	16QAM	22.84
mid	1732.5	20175	20	RB_1_mid	64QAM	21.86
mid	1732.5	20175	20	RB_1_high	QPSK	23.26
mid	1732.5	20175	20	RB_1_high	16QAM	22.82
mid	1732.5	20175	20	RB_1_high	64QAM	21.71
mid	1732.5	20175	20	RB_50%_low	QPSK	22.57
mid	1732.5	20175	20	RB_50%_low	16QAM	21.64
mid	1732.5	20175	20	RB_50%_low	64QAM	20.57
mid	1732.5	20175	20	RB_50%_mid	QPSK	22.48
mid	1732.5	20175	20	RB_50%_mid	16QAM	21.48
mid	1732.5	20175	20	RB_50%_mid	64QAM	20.67
mid	1732.5	20175	20	RB_50%_high	QPSK	22.37
mid	1732.5	20175	20	RB_50%_high	16QAM	21.49
mid	1732.5	20175	20	RB_50%_high	64QAM	20.58
mid	1732.5	20175	20	RB_100%	QPSK	22.49
mid	1732.5	20175	20	RB_100%	16QAM	21.51
mid	1732.5	20175	20	RB_100%	64QAM	20.54
high	1745	20300	20	RB_1_low	QPSK	23.31
high	1745	20300	20	RB_1_low	16QAM	23.09
high	1745	20300	20	RB_1_low	64QAM	22.05
high	1745	20300	20	RB_1_mid	QPSK	22.99
high	1745	20300	20	RB_1_mid	16QAM	22.68
high	1745	20300	20	RB_1_mid	64QAM	21.96
high	1745	20300	20	RB_1_high	QPSK	23.01
high	1745	20300	20	RB_1_high	16QAM	22.70
high	1745	20300	20	RB_1_high	64QAM	21.77
high	1745	20300	20	RB_50%_low	QPSK	22.63
high	1745	20300	20	RB_50%_low	16QAM	21.58
high	1745	20300	20	RB_50%_low	64QAM	20.58
high	1745	20300	20	RB_50%_mid	QPSK	22.56
high	1745	20300	20	RB_50%_mid	16QAM	21.46
high	1745	20300	20	RB_50%_mid	64QAM	20.55
high	1745	20300	20	RB_50%_high	QPSK	22.36
high	1745	20300	20	RB_50%_high	16QAM	21.43
high	1745	20300	20	RB_50%_high	64QAM	20.42
high	1745	20300	20	RB_100%	QPSK	22.55
high	1745	20300	20	RB_100%	16QAM	21.54
high	1745	20300	20	RB_100%	64QAM	20.41

Table 17: Test results conducted power measurement LTE FDD 4 1700 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	824.7	20407	1.4	RB_1_low	QPSK	23.37
low	824.7	20407	1.4	RB_1_low	16QAM	22.26
low	824.7	20407	1.4	RB_1_low	64QAM	21.39
low	824.7	20407	1.4	RB_1_mid	QPSK	23.51
low	824.7	20407	1.4	RB_1_mid	16QAM	22.36
low	824.7	20407	1.4	RB_1_mid	64QAM	21.45
low	824.7	20407	1.4	RB_1_high	QPSK	23.36
low	824.7	20407	1.4	RB_1_high	16QAM	22.36
low	824.7	20407	1.4	RB_1_high	64QAM	21.48
low	824.7	20407	1.4	RB_50%_low	QPSK	23.41
low	824.7	20407	1.4	RB_50%_low	16QAM	22.80
low	824.7	20407	1.4	RB_50%_low	64QAM	21.67
low	824.7	20407	1.4	RB_50%_mid	QPSK	23.46
low	824.7	20407	1.4	RB_50%_mid	16QAM	22.83
low	824.7	20407	1.4	RB_50%_mid	64QAM	21.70
low	824.7	20407	1.4	RB_50%_high	QPSK	23.30
low	824.7	20407	1.4	RB_50%_high	16QAM	22.77
low	824.7	20407	1.4	RB_50%_high	64QAM	21.58
low	824.7	20407	1.4	RB_100%	QPSK	22.44
low	824.7	20407	1.4	RB_100%	16QAM	21.53
low	824.7	20407	1.4	RB_100%	64QAM	20.83
mid	836.5	20525	1.4	RB_1_low	QPSK	23.37
mid	836.5	20525	1.4	RB_1_low	16QAM	22.29
mid	836.5	20525	1.4	RB_1_low	64QAM	21.63
mid	836.5	20525	1.4	RB_1_mid	QPSK	23.48
mid	836.5	20525	1.4	RB_1_mid	16QAM	22.37
mid	836.5	20525	1.4	RB_1_mid	64QAM	21.63
mid	836.5	20525	1.4	RB_1_high	QPSK	23.38
mid	836.5	20525	1.4	RB_1_high	16QAM	22.30
mid	836.5	20525	1.4	RB_1_high	64QAM	21.68
mid	836.5	20525	1.4	RB_50%_low	QPSK	23.28
mid	836.5	20525	1.4	RB_50%_low	16QAM	22.83
mid	836.5	20525	1.4	RB_50%_low	64QAM	21.39
mid	836.5	20525	1.4	RB_50%_mid	QPSK	23.33
mid	836.5	20525	1.4	RB_50%_mid	16QAM	22.86
mid	836.5	20525	1.4	RB_50%_mid	64QAM	21.53
mid	836.5	20525	1.4	RB_50%_high	QPSK	23.24
mid	836.5	20525	1.4	RB_50%_high	16QAM	22.84
mid	836.5	20525	1.4	RB_50%_high	64QAM	21.49
mid	836.5	20525	1.4	RB_100%	QPSK	22.41
mid	836.5	20525	1.4	RB_100%	16QAM	21.55
mid	836.5	20525	1.4	RB_100%	64QAM	20.71

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	848.3	20643	1.4	RB_1_low	QPSK	23.20
high	848.3	20643	1.4	RB_1_low	16QAM	22.08
high	848.3	20643	1.4	RB_1_low	64QAM	21.21
high	848.3	20643	1.4	RB_1_mid	QPSK	23.25
high	848.3	20643	1.4	RB_1_mid	16QAM	22.11
high	848.3	20643	1.4	RB_1_mid	64QAM	21.27
high	848.3	20643	1.4	RB_1_high	QPSK	23.11
high	848.3	20643	1.4	RB_1_high	16QAM	22.01
high	848.3	20643	1.4	RB_1_high	64QAM	21.12
high	848.3	20643	1.4	RB_50%_low	QPSK	23.02
high	848.3	20643	1.4	RB_50%_low	16QAM	22.54
high	848.3	20643	1.4	RB_50%_low	64QAM	21.39
high	848.3	20643	1.4	RB_50%_mid	QPSK	23.14
high	848.3	20643	1.4	RB_50%_mid	16QAM	22.65
high	848.3	20643	1.4	RB_50%_mid	64QAM	21.42
high	848.3	20643	1.4	RB_50%_high	QPSK	23.10
high	848.3	20643	1.4	RB_50%_high	16QAM	22.50
high	848.3	20643	1.4	RB_50%_high	64QAM	21.38
high	848.3	20643	1.4	RB_100%	QPSK	22.24
high	848.3	20643	1.4	RB_100%	16QAM	21.31
high	848.3	20643	1.4	RB_100%	64QAM	20.62
low	825.5	20415	3	RB_1_low	QPSK	23.45
low	825.5	20415	3	RB_1_low	16QAM	22.27
low	825.5	20415	3	RB_1_low	64QAM	21.77
low	825.5	20415	3	RB_1_mid	QPSK	23.39
low	825.5	20415	3	RB_1_mid	16QAM	22.35
low	825.5	20415	3	RB_1_mid	64QAM	21.83
low	825.5	20415	3	RB_1_high	QPSK	23.42
low	825.5	20415	3	RB_1_high	16QAM	22.26
low	825.5	20415	3	RB_1_high	64QAM	21.71
low	825.5	20415	3	RB_50%_low	QPSK	22.54
low	825.5	20415	3	RB_50%_low	16QAM	21.51
low	825.5	20415	3	RB_50%_low	64QAM	20.76
low	825.5	20415	3	RB_50%_mid	QPSK	22.51
low	825.5	20415	3	RB_50%_mid	16QAM	21.50
low	825.5	20415	3	RB_50%_mid	64QAM	20.82
low	825.5	20415	3	RB_50%_high	QPSK	22.47
low	825.5	20415	3	RB_50%_high	16QAM	21.49
low	825.5	20415	3	RB_50%_high	64QAM	20.75
low	825.5	20415	3	RB_100%	QPSK	22.51
low	825.5	20415	3	RB_100%	16QAM	21.59
low	825.5	20415	3	RB_100%	64QAM	20.53

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	836.5	20525	3	RB_1_low	QPSK	23.51
mid	836.5	20525	3	RB_1_low	16QAM	22.38
mid	836.5	20525	3	RB_1_low	64QAM	21.72
mid	836.5	20525	3	RB_1_mid	QPSK	23.35
mid	836.5	20525	3	RB_1_mid	16QAM	22.32
mid	836.5	20525	3	RB_1_mid	64QAM	21.68
mid	836.5	20525	3	RB_1_high	QPSK	23.41
mid	836.5	20525	3	RB_1_high	16QAM	22.15
mid	836.5	20525	3	RB_1_high	64QAM	21.58
mid	836.5	20525	3	RB_50%_low	QPSK	22.50
mid	836.5	20525	3	RB_50%_low	16QAM	21.64
mid	836.5	20525	3	RB_50%_low	64QAM	20.74
mid	836.5	20525	3	RB_50%_mid	QPSK	22.61
mid	836.5	20525	3	RB_50%_mid	16QAM	21.55
mid	836.5	20525	3	RB_50%_mid	64QAM	20.71
mid	836.5	20525	3	RB_50%_high	QPSK	22.52
mid	836.5	20525	3	RB_50%_high	16QAM	21.53
mid	836.5	20525	3	RB_50%_high	64QAM	20.61
mid	836.5	20525	3	RB_100%	QPSK	22.54
mid	836.5	20525	3	RB_100%	16QAM	21.60
mid	836.5	20525	3	RB_100%	64QAM	20.45
high	847.5	20635	3	RB_1_low	QPSK	23.26
high	847.5	20635	3	RB_1_low	16QAM	22.15
high	847.5	20635	3	RB_1_low	64QAM	21.60
high	847.5	20635	3	RB_1_mid	QPSK	23.29
high	847.5	20635	3	RB_1_mid	16QAM	21.99
high	847.5	20635	3	RB_1_mid	64QAM	21.41
high	847.5	20635	3	RB_1_high	QPSK	23.25
high	847.5	20635	3	RB_1_high	16QAM	21.97
high	847.5	20635	3	RB_1_high	64QAM	21.43
high	847.5	20635	3	RB_50%_low	QPSK	22.30
high	847.5	20635	3	RB_50%_low	16QAM	21.32
high	847.5	20635	3	RB_50%_low	64QAM	20.56
high	847.5	20635	3	RB_50%_mid	QPSK	22.30
high	847.5	20635	3	RB_50%_mid	16QAM	21.31
high	847.5	20635	3	RB_50%_mid	64QAM	20.60
high	847.5	20635	3	RB_50%_high	QPSK	22.28
high	847.5	20635	3	RB_50%_high	16QAM	21.27
high	847.5	20635	3	RB_50%_high	64QAM	20.61
high	847.5	20635	3	RB_100%	QPSK	22.27
high	847.5	20635	3	RB_100%	16QAM	21.33
high	847.5	20635	3	RB_100%	64QAM	20.28

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	826.5	20425	5	RB_1_low	QPSK	23.36
low	826.5	20425	5	RB_1_low	16QAM	22.76
low	826.5	20425	5	RB_1_low	64QAM	22.07
low	826.5	20425	5	RB_1_mid	QPSK	23.42
low	826.5	20425	5	RB_1_mid	16QAM	22.81
low	826.5	20425	5	RB_1_mid	64QAM	22.14
low	826.5	20425	5	RB_1_high	QPSK	23.37
low	826.5	20425	5	RB_1_high	16QAM	22.65
low	826.5	20425	5	RB_1_high	64QAM	21.98
low	826.5	20425	5	RB_50%_low	QPSK	22.50
low	826.5	20425	5	RB_50%_low	16QAM	21.62
low	826.5	20425	5	RB_50%_low	64QAM	20.56
low	826.5	20425	5	RB_50%_mid	QPSK	22.57
low	826.5	20425	5	RB_50%_mid	16QAM	21.65
low	826.5	20425	5	RB_50%_mid	64QAM	20.59
low	826.5	20425	5	RB_50%_high	QPSK	22.55
low	826.5	20425	5	RB_50%_high	16QAM	21.64
low	826.5	20425	5	RB_50%_high	64QAM	20.57
low	826.5	20425	5	RB_100%	QPSK	22.58
low	826.5	20425	5	RB_100%	16QAM	21.40
low	826.5	20425	5	RB_100%	64QAM	20.53
mid	836.5	20525	5	RB_1_low	QPSK	**23.56**
mid	836.5	20525	5	RB_1_low	16QAM	22.74
mid	836.5	20525	5	RB_1_low	64QAM	20.95
mid	836.5	20525	5	RB_1_mid	QPSK	**23.56**
mid	836.5	20525	5	RB_1_mid	16QAM	22.76
mid	836.5	20525	5	RB_1_mid	64QAM	21.12
mid	836.5	20525	5	RB_1_high	QPSK	23.47
mid	836.5	20525	5	RB_1_high	16QAM	22.63
mid	836.5	20525	5	RB_1_high	64QAM	20.98
mid	836.5	20525	5	RB_50%_low	QPSK	22.54
mid	836.5	20525	5	RB_50%_low	16QAM	21.57
mid	836.5	20525	5	RB_50%_low	64QAM	20.51
mid	836.5	20525	5	RB_50%_mid	QPSK	22.52
mid	836.5	20525	5	RB_50%_mid	16QAM	21.63
mid	836.5	20525	5	RB_50%_mid	64QAM	20.48
mid	836.5	20525	5	RB_50%_high	QPSK	22.49
mid	836.5	20525	5	RB_50%_high	16QAM	21.60
mid	836.5	20525	5	RB_50%_high	64QAM	20.45
mid	836.5	20525	5	RB_100%	QPSK	22.48
mid	836.5	20525	5	RB_100%	16QAM	21.49
mid	836.5	20525	5	RB_100%	64QAM	20.55

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	846.5	20625	5	RB_1_low	QPSK	23.29
high	846.5	20625	5	RB_1_low	16QAM	22.54
high	846.5	20625	5	RB_1_low	64QAM	21.88
high	846.5	20625	5	RB_1_mid	QPSK	23.20
high	846.5	20625	5	RB_1_mid	16QAM	22.48
high	846.5	20625	5	RB_1_mid	64QAM	21.83
high	846.5	20625	5	RB_1_high	QPSK	23.16
high	846.5	20625	5	RB_1_high	16QAM	22.42
high	846.5	20625	5	RB_1_high	64QAM	21.71
high	846.5	20625	5	RB_50%_low	QPSK	22.36
high	846.5	20625	5	RB_50%_low	16QAM	21.43
high	846.5	20625	5	RB_50%_low	64QAM	20.43
high	846.5	20625	5	RB_50%_mid	QPSK	22.33
high	846.5	20625	5	RB_50%_mid	16QAM	21.44
high	846.5	20625	5	RB_50%_mid	64QAM	20.36
high	846.5	20625	5	RB_50%_high	QPSK	22.28
high	846.5	20625	5	RB_50%_high	16QAM	21.37
high	846.5	20625	5	RB_50%_high	64QAM	20.32
high	846.5	20625	5	RB_100%	QPSK	22.29
high	846.5	20625	5	RB_100%	16QAM	21.23
high	846.5	20625	5	RB_100%	64QAM	20.25
low	829	20450	10	RB_1_low	QPSK	23.43
low	829	20450	10	RB_1_low	16QAM	22.36
low	829	20450	10	RB_1_low	64QAM	21.64
low	829	20450	10	RB_1_mid	QPSK	23.51
low	829	20450	10	RB_1_mid	16QAM	22.37
low	829	20450	10	RB_1_mid	64QAM	21.38
low	**829**	**20450**	**10**	**RB_1_high**	**QPSK**	**23.52**
low	829	20450	10	RB_1_high	16QAM	22.21
low	829	20450	10	RB_1_high	64QAM	20.95
low	829	20450	10	RB_50%_low	QPSK	22.50
low	829	20450	10	RB_50%_low	16QAM	21.52
low	829	20450	10	RB_50%_low	64QAM	20.53
low	**829**	**20450**	**10**	**RB_50%_mid**	**QPSK**	**22.56**
low	829	20450	10	RB_50%_mid	16QAM	21.63
low	829	20450	10	RB_50%_mid	64QAM	20.54
low	829	20450	10	RB_50%_high	QPSK	22.49
low	829	20450	10	RB_50%_high	16QAM	21.48
low	829	20450	10	RB_50%_high	64QAM	20.36
low	829	20450	10	RB_100%	QPSK	22.50
low	829	20450	10	RB_100%	16QAM	21.49
low	829	20450	10	RB_100%	64QAM	20.55

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	836.5	20525	10	RB_1_low	QPSK	23.41
mid	836.5	20525	10	RB_1_low	16QAM	22.39
mid	836.5	20525	10	RB_1_low	64QAM	21.46
mid	836.5	20525	10	RB_1_mid	QPSK	23.43
mid	836.5	20525	10	RB_1_mid	16QAM	22.23
mid	836.5	20525	10	RB_1_mid	64QAM	21.57
mid	**836.5**	**20525**	**10**	**RB_1_high**	**QPSK**	**23.49**
mid	836.5	20525	10	RB_1_high	16QAM	22.19
mid	836.5	20525	10	RB_1_high	64QAM	21.58
mid	836.5	20525	10	RB_50%_low	QPSK	22.44
mid	836.5	20525	10	RB_50%_low	16QAM	21.49
mid	836.5	20525	10	RB_50%_low	64QAM	20.54
mid	836.5	20525	10	RB_50%_mid	QPSK	22.54
mid	836.5	20525	10	RB_50%_mid	16QAM	21.62
mid	836.5	20525	10	RB_50%_mid	64QAM	20.59
mid	836.5	20525	10	RB_50%_high	QPSK	22.53
mid	836.5	20525	10	RB_50%_high	16QAM	21.56
mid	836.5	20525	10	RB_50%_high	64QAM	20.44
mid	836.5	20525	10	RB_100%	QPSK	22.53
mid	836.5	20525	10	RB_100%	16QAM	21.37
mid	836.5	20525	10	RB_100%	64QAM	20.41
high	**844**	**20600**	**10**	**RB_1_low**	**QPSK**	**23.42**
high	844	20600	10	RB_1_low	16QAM	22.47
high	844	20600	10	RB_1_low	64QAM	21.54
high	844	20600	10	RB_1_mid	QPSK	23.33
high	844	20600	10	RB_1_mid	16QAM	22.21
high	844	20600	10	RB_1_mid	64QAM	21.51
high	844	20600	10	RB_1_high	QPSK	23.20
high	844	20600	10	RB_1_high	16QAM	22.11
high	844	20600	10	RB_1_high	64QAM	21.40
high	844	20600	10	RB_50%_low	QPSK	22.33
high	844	20600	10	RB_50%_low	16QAM	21.41
high	844	20600	10	RB_50%_low	64QAM	20.38
high	844	20600	10	RB_50%_mid	QPSK	22.37
high	844	20600	10	RB_50%_mid	16QAM	21.32
high	844	20600	10	RB_50%_mid	64QAM	20.39
high	844	20600	10	RB_50%_high	QPSK	22.28
high	844	20600	10	RB_50%_high	16QAM	21.30
high	844	20600	10	RB_50%_high	64QAM	20.39
high	844	20600	10	RB_100%	QPSK	22.35
high	844	20600	10	RB_100%	16QAM	21.36
high	844	20600	10	RB_100%	64QAM	20.32

Table 18: Test results conducted power measurement LTE FDD 5 850 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2502.5	20775	5	RB_1_low	QPSK	22.70
low	2502.5	20775	5	RB_1_low	16QAM	22.06
low	2502.5	20775	5	RB_1_low	64QAM	21.24
low	2502.5	20775	5	RB_1_mid	QPSK	22.74
low	2502.5	20775	5	RB_1_mid	16QAM	22.00
low	2502.5	20775	5	RB_1_mid	64QAM	21.39
low	2502.5	20775	5	RB_1_high	QPSK	22.80
low	2502.5	20775	5	RB_1_high	16QAM	22.06
low	2502.5	20775	5	RB_1_high	64QAM	21.35
low	2502.5	20775	5	RB_50%_low	QPSK	21.93
low	2502.5	20775	5	RB_50%_low	16QAM	21.00
low	2502.5	20775	5	RB_50%_low	64QAM	19.93
low	2502.5	20775	5	RB_50%_mid	QPSK	21.90
low	2502.5	20775	5	RB_50%_mid	16QAM	21.03
low	2502.5	20775	5	RB_50%_mid	64QAM	19.98
low	2502.5	20775	5	RB_50%_high	QPSK	21.89
low	2502.5	20775	5	RB_50%_high	16QAM	21.03
low	2502.5	20775	5	RB_50%_high	64QAM	19.95
low	2502.5	20775	5	RB_100%	QPSK	21.88
low	2502.5	20775	5	RB_100%	16QAM	20.77
low	2502.5	20775	5	RB_100%	64QAM	19.83
mid	2535	21100	5	RB_1_low	QPSK	22.89
mid	2535	21100	5	RB_1_low	16QAM	22.06
mid	2535	21100	5	RB_1_low	64QAM	20.45
mid	2535	21100	5	RB_1_mid	QPSK	22.97
mid	2535	21100	5	RB_1_mid	16QAM	22.16
mid	2535	21100	5	RB_1_mid	64QAM	20.54
mid	2535	21100	5	RB_1_high	QPSK	22.90
mid	2535	21100	5	RB_1_high	16QAM	22.09
mid	2535	21100	5	RB_1_high	64QAM	20.49
mid	2535	21100	5	RB_50%_low	QPSK	21.96
mid	2535	21100	5	RB_50%_low	16QAM	21.03
mid	2535	21100	5	RB_50%_low	64QAM	19.91
mid	2535	21100	5	RB_50%_mid	QPSK	21.97
mid	2535	21100	5	RB_50%_mid	16QAM	21.04
mid	2535	21100	5	RB_50%_mid	64QAM	19.90
mid	2535	21100	5	RB_50%_high	QPSK	21.90
mid	2535	21100	5	RB_50%_high	16QAM	21.01
mid	2535	21100	5	RB_50%_high	64QAM	19.87
mid	2535	21100	5	RB_100%	QPSK	21.90
mid	2535	21100	5	RB_100%	16QAM	20.91
mid	2535	21100	5	RB_100%	64QAM	20.00

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	2567.5	21425	5	RB_1_low	QPSK	22.65
high	2567.5	21425	5	RB_1_low	16QAM	21.88
high	2567.5	21425	5	RB_1_low	64QAM	21.09
high	2567.5	21425	5	RB_1_mid	QPSK	22.69
high	2567.5	21425	5	RB_1_mid	16QAM	22.07
high	2567.5	21425	5	RB_1_mid	64QAM	21.40
high	2567.5	21425	5	RB_1_high	QPSK	22.73
high	2567.5	21425	5	RB_1_high	16QAM	22.11
high	2567.5	21425	5	RB_1_high	64QAM	21.32
high	2567.5	21425	5	RB_50%_low	QPSK	21.87
high	2567.5	21425	5	RB_50%_low	16QAM	20.96
high	2567.5	21425	5	RB_50%_low	64QAM	19.92
high	2567.5	21425	5	RB_50%_mid	QPSK	21.87
high	2567.5	21425	5	RB_50%_mid	16QAM	20.94
high	2567.5	21425	5	RB_50%_mid	64QAM	19.92
high	2567.5	21425	5	RB_50%_high	QPSK	21.85
high	2567.5	21425	5	RB_50%_high	16QAM	20.98
high	2567.5	21425	5	RB_50%_high	64QAM	19.90
high	2567.5	21425	5	RB_100%	QPSK	21.91
high	2567.5	21425	5	RB_100%	16QAM	20.75
high	2567.5	21425	5	RB_100%	64QAM	19.90
low	2505	20800	10	RB_1_low	QPSK	22.96
low	2505	20800	10	RB_1_low	16QAM	21.56
low	2505	20800	10	RB_1_low	64QAM	21.01
low	2505	20800	10	RB_1_mid	QPSK	22.87
low	2505	20800	10	RB_1_mid	16QAM	21.71
low	2505	20800	10	RB_1_mid	64QAM	21.16
low	2505	20800	10	RB_1_high	QPSK	23.07
low	2505	20800	10	RB_1_high	16QAM	21.54
low	2505	20800	10	RB_1_high	64QAM	21.02
low	2505	20800	10	RB_50%_low	QPSK	21.97
low	2505	20800	10	RB_50%_low	16QAM	20.95
low	2505	20800	10	RB_50%_low	64QAM	20.03
low	2505	20800	10	RB_50%_mid	QPSK	22.02
low	2505	20800	10	RB_50%_mid	16QAM	21.02
low	2505	20800	10	RB_50%_mid	64QAM	20.03
low	2505	20800	10	RB_50%_high	QPSK	21.95
low	2505	20800	10	RB_50%_high	16QAM	20.97
low	2505	20800	10	RB_50%_high	64QAM	19.91
low	2505	20800	10	RB_100%	QPSK	22.00
low	2505	20800	10	RB_100%	16QAM	21.04
low	2505	20800	10	RB_100%	64QAM	19.95

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	2535	21100	10	RB_1_low	QPSK	22.91
mid	2535	21100	10	RB_1_low	16QAM	21.79
mid	2535	21100	10	RB_1_low	64QAM	21.03
mid	2535	21100	10	RB_1_mid	QPSK	22.82
mid	2535	21100	10	RB_1_mid	16QAM	21.61
mid	2535	21100	10	RB_1_mid	64QAM	21.07
mid	2535	21100	10	RB_1_high	QPSK	22.78
mid	2535	21100	10	RB_1_high	16QAM	21.66
mid	2535	21100	10	RB_1_high	64QAM	21.01
mid	2535	21100	10	RB_50%_low	QPSK	21.97
mid	2535	21100	10	RB_50%_low	16QAM	20.90
mid	2535	21100	10	RB_50%_low	64QAM	20.00
mid	2535	21100	10	RB_50%_mid	QPSK	21.95
mid	2535	21100	10	RB_50%_mid	16QAM	20.96
mid	2535	21100	10	RB_50%_mid	64QAM	19.95
mid	2535	21100	10	RB_50%_high	QPSK	21.90
mid	2535	21100	10	RB_50%_high	16QAM	20.94
mid	2535	21100	10	RB_50%_high	64QAM	19.91
mid	2535	21100	10	RB_100%	QPSK	21.96
mid	2535	21100	10	RB_100%	16QAM	20.94
mid	2535	21100	10	RB_100%	64QAM	19.98
high	2565	21400	10	RB_1_low	QPSK	22.84
high	2565	21400	10	RB_1_low	16QAM	21.54
high	2565	21400	10	RB_1_low	64QAM	20.93
high	2565	21400	10	RB_1_mid	QPSK	22.80
high	2565	21400	10	RB_1_mid	16QAM	21.75
high	2565	21400	10	RB_1_mid	64QAM	21.04
high	2565	21400	10	RB_1_high	QPSK	23.09
high	2565	21400	10	RB_1_high	16QAM	21.56
high	2565	21400	10	RB_1_high	64QAM	20.86
high	2565	21400	10	RB_50%_low	QPSK	21.85
high	2565	21400	10	RB_50%_low	16QAM	20.82
high	2565	21400	10	RB_50%_low	64QAM	19.89
high	2565	21400	10	RB_50%_mid	QPSK	21.89
high	2565	21400	10	RB_50%_mid	16QAM	20.86
high	2565	21400	10	RB_50%_mid	64QAM	19.91
high	2565	21400	10	RB_50%_high	QPSK	21.83
high	2565	21400	10	RB_50%_high	16QAM	20.77
high	2565	21400	10	RB_50%_high	64QAM	19.93
high	2565	21400	10	RB_100%	QPSK	21.87
high	2565	21400	10	RB_100%	16QAM	20.86
high	2565	21400	10	RB_100%	64QAM	20.02

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2507.5	20825	15	RB_1_low	QPSK	22.90
low	2507.5	20825	15	RB_1_low	16QAM	21.86
low	2507.5	20825	15	RB_1_low	64QAM	21.62
low	2507.5	20825	15	RB_1_mid	QPSK	22.96
low	2507.5	20825	15	RB_1_mid	16QAM	21.90
low	2507.5	20825	15	RB_1_mid	64QAM	22.01
low	2507.5	20825	15	RB_1_high	QPSK	**23.11**
low	2507.5	20825	15	RB_1_high	16QAM	21.83
low	2507.5	20825	15	RB_1_high	64QAM	21.78
low	2507.5	20825	15	RB_50%_low	QPSK	22.00
low	2507.5	20825	15	RB_50%_low	16QAM	20.95
low	2507.5	20825	15	RB_50%_low	64QAM	19.91
low	2507.5	20825	15	RB_50%_mid	QPSK	21.93
low	2507.5	20825	15	RB_50%_mid	16QAM	20.84
low	2507.5	20825	15	RB_50%_mid	64QAM	19.89
low	2507.5	20825	15	RB_50%_high	QPSK	21.95
low	2507.5	20825	15	RB_50%_high	16QAM	20.72
low	2507.5	20825	15	RB_50%_high	64QAM	19.85
low	2507.5	20825	15	RB_100%	QPSK	21.85
low	2507.5	20825	15	RB_100%	16QAM	20.93
low	2507.5	20825	15	RB_100%	64QAM	19.93
mid	2535	21100	15	RB_1_low	QPSK	22.96
mid	2535	21100	15	RB_1_low	16QAM	22.03
mid	2535	21100	15	RB_1_low	64QAM	21.10
mid	2535	21100	15	RB_1_mid	QPSK	22.87
mid	2535	21100	15	RB_1_mid	16QAM	21.76
mid	2535	21100	15	RB_1_mid	64QAM	20.92
mid	2535	21100	15	RB_1_high	QPSK	22.86
mid	2535	21100	15	RB_1_high	16QAM	21.77
mid	2535	21100	15	RB_1_high	64QAM	21.00
mid	2535	21100	15	RB_50%_low	QPSK	21.97
mid	2535	21100	15	RB_50%_low	16QAM	21.01
mid	2535	21100	15	RB_50%_low	64QAM	20.04
mid	2535	21100	15	RB_50%_mid	QPSK	21.95
mid	2535	21100	15	RB_50%_mid	16QAM	20.98
mid	2535	21100	15	RB_50%_mid	64QAM	20.06
mid	2535	21100	15	RB_50%_high	QPSK	21.95
mid	2535	21100	15	RB_50%_high	16QAM	20.95
mid	2535	21100	15	RB_50%_high	64QAM	19.93
mid	2535	21100	15	RB_100%	QPSK	21.85
mid	2535	21100	15	RB_100%	16QAM	20.87
mid	2535	21100	15	RB_100%	64QAM	19.86

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	2562.5	21375	15	RB_1_low	QPSK	22.89
high	2562.5	21375	15	RB_1_low	16QAM	21.97
high	2562.5	21375	15	RB_1_low	64QAM	22.04
high	2562.5	21375	15	RB_1_mid	QPSK	22.88
high	2562.5	21375	15	RB_1_mid	16QAM	22.05
high	2562.5	21375	15	RB_1_mid	64QAM	21.79
high	2562.5	21375	15	RB_1_high	QPSK	23.09
high	2562.5	21375	15	RB_1_high	16QAM	21.93
high	2562.5	21375	15	RB_1_high	64QAM	21.68
high	2562.5	21375	15	RB_50%_low	QPSK	21.91
high	2562.5	21375	15	RB_50%_low	16QAM	20.88
high	2562.5	21375	15	RB_50%_low	64QAM	19.91
high	2562.5	21375	15	RB_50%_mid	QPSK	21.91
high	2562.5	21375	15	RB_50%_mid	16QAM	20.82
high	2562.5	21375	15	RB_50%_mid	64QAM	19.86
high	2562.5	21375	15	RB_50%_high	QPSK	21.77
high	2562.5	21375	15	RB_50%_high	16QAM	20.79
high	2562.5	21375	15	RB_50%_high	64QAM	19.84
high	2562.5	21375	15	RB_100%	QPSK	21.82
high	2562.5	21375	15	RB_100%	16QAM	20.95
high	2562.5	21375	15	RB_100%	64QAM	19.98
low	2510	20850	20	RB_1_low	QPSK	22.64
low	2510	20850	20	RB_1_low	16QAM	22.43
low	2510	20850	20	RB_1_low	64QAM	21.27
low	2510	20850	20	RB_1_mid	QPSK	22.75
low	2510	20850	20	RB_1_mid	16QAM	22.46
low	2510	20850	20	RB_1_mid	64QAM	21.39
low	**2510**	**20850**	**20**	**RB_1_high**	**QPSK**	**22.78**
low	2510	20850	20	RB_1_high	16QAM	22.37
low	2510	20850	20	RB_1_high	64QAM	21.53
low	**2510**	**20850**	**20**	**RB_50%_low**	**QPSK**	**22.01**
low	2510	20850	20	RB_50%_low	16QAM	20.94
low	2510	20850	20	RB_50%_low	64QAM	20.03
low	2510	20850	20	RB_50%_mid	QPSK	21.88
low	2510	20850	20	RB_50%_mid	16QAM	20.94
low	2510	20850	20	RB_50%_mid	64QAM	19.97
low	2510	20850	20	RB_50%_high	QPSK	21.88
low	2510	20850	20	RB_50%_high	16QAM	20.91
low	2510	20850	20	RB_50%_high	64QAM	19.91
low	2510	20850	20	RB_100%	QPSK	21.95
low	2510	20850	20	RB_100%	16QAM	20.86
low	2510	20850	20	RB_100%	64QAM	19.98

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	2535	21100	20	RB_1_low	QPSK	22.79
mid	2535	21100	20	RB_1_low	16QAM	22.43
mid	2535	21100	20	RB_1_low	64QAM	21.34
mid	2535	21100	20	RB_1_mid	QPSK	22.74
mid	2535	21100	20	RB_1_mid	16QAM	22.49
mid	2535	21100	20	RB_1_mid	64QAM	21.40
mid	**2535**	**21100**	**20**	**RB_1_high**	**QPSK**	**22.81**
mid	2535	21100	20	RB_1_high	16QAM	22.46
mid	2535	21100	20	RB_1_high	64QAM	21.38
mid	2535	21100	20	RB_50%_low	QPSK	21.94
mid	2535	21100	20	RB_50%_low	16QAM	21.00
mid	2535	21100	20	RB_50%_low	64QAM	20.01
mid	2535	21100	20	RB_50%_mid	QPSK	21.87
mid	2535	21100	20	RB_50%_mid	16QAM	20.94
mid	2535	21100	20	RB_50%_mid	64QAM	19.99
mid	2535	21100	20	RB_50%_high	QPSK	21.85
mid	2535	21100	20	RB_50%_high	16QAM	20.91
mid	2535	21100	20	RB_50%_high	64QAM	20.01
mid	2535	21100	20	RB_100%	QPSK	21.90
mid	2535	21100	20	RB_100%	16QAM	20.98
mid	2535	21100	20	RB_100%	64QAM	19.94
high	**2560**	**21350**	**20**	**RB_1_low**	**QPSK**	**22.75**
high	2560	21350	20	RB_1_low	16QAM	22.54
high	2560	21350	20	RB_1_low	64QAM	21.39
high	2560	21350	20	RB_1_mid	QPSK	22.64
high	2560	21350	20	RB_1_mid	16QAM	22.25
high	2560	21350	20	RB_1_mid	64QAM	21.31
high	2560	21350	20	RB_1_high	QPSK	22.63
high	2560	21350	20	RB_1_high	16QAM	22.24
high	2560	21350	20	RB_1_high	64QAM	21.41
high	2560	21350	20	RB_50%_low	QPSK	21.92
high	2560	21350	20	RB_50%_low	16QAM	20.93
high	2560	21350	20	RB_50%_low	64QAM	20.09
high	2560	21350	20	RB_50%_mid	QPSK	21.86
high	2560	21350	20	RB_50%_mid	16QAM	20.94
high	2560	21350	20	RB_50%_mid	64QAM	19.96
high	2560	21350	20	RB_50%_high	QPSK	21.80
high	2560	21350	20	RB_50%_high	16QAM	20.80
high	2560	21350	20	RB_50%_high	64QAM	19.79
high	2560	21350	20	RB_100%	QPSK	21.93
high	2560	21350	20	RB_100%	16QAM	21.00
high	2560	21350	20	RB_100%	64QAM	19.89

Table 19: Test results conducted power measurement LTE FDD 7 2600 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	699.7	23017	1.4	RB_1_low	QPSK	22.63
low	699.7	23017	1.4	RB_1_low	16QAM	21.53
low	699.7	23017	1.4	RB_1_low	64QAM	20.71
low	699.7	23017	1.4	RB_1_mid	QPSK	22.80
low	699.7	23017	1.4	RB_1_mid	16QAM	21.70
low	699.7	23017	1.4	RB_1_mid	64QAM	20.83
low	699.7	23017	1.4	RB_1_high	QPSK	22.66
low	699.7	23017	1.4	RB_1_high	16QAM	21.66
low	699.7	23017	1.4	RB_1_high	64QAM	20.77
low	699.7	23017	1.4	RB_50%_low	QPSK	22.65
low	699.7	23017	1.4	RB_50%_low	16QAM	22.10
low	699.7	23017	1.4	RB_50%_low	64QAM	20.91
low	699.7	23017	1.4	RB_50%_mid	QPSK	22.64
low	699.7	23017	1.4	RB_50%_mid	16QAM	22.13
low	699.7	23017	1.4	RB_50%_mid	64QAM	21.01
low	699.7	23017	1.4	RB_50%_high	QPSK	22.57
low	699.7	23017	1.4	RB_50%_high	16QAM	22.09
low	699.7	23017	1.4	RB_50%_high	64QAM	20.94
low	699.7	23017	1.4	RB_100%	QPSK	21.79
low	699.7	23017	1.4	RB_100%	16QAM	20.85
low	699.7	23017	1.4	RB_100%	64QAM	20.08
mid	707.5	23095	1.4	RB_1_low	QPSK	22.44
mid	707.5	23095	1.4	RB_1_low	16QAM	21.37
mid	707.5	23095	1.4	RB_1_low	64QAM	20.55
mid	707.5	23095	1.4	RB_1_mid	QPSK	22.57
mid	707.5	23095	1.4	RB_1_mid	16QAM	21.84
mid	707.5	23095	1.4	RB_1_mid	64QAM	20.86
mid	707.5	23095	1.4	RB_1_high	QPSK	22.50
mid	707.5	23095	1.4	RB_1_high	16QAM	21.69
mid	707.5	23095	1.4	RB_1_high	64QAM	20.48
mid	707.5	23095	1.4	RB_50%_low	QPSK	22.39
mid	707.5	23095	1.4	RB_50%_low	16QAM	21.72
mid	707.5	23095	1.4	RB_50%_low	64QAM	20.74
mid	707.5	23095	1.4	RB_50%_mid	QPSK	22.38
mid	707.5	23095	1.4	RB_50%_mid	16QAM	21.70
mid	707.5	23095	1.4	RB_50%_mid	64QAM	20.75
mid	707.5	23095	1.4	RB_50%_high	QPSK	22.35
mid	707.5	23095	1.4	RB_50%_high	16QAM	21.60
mid	707.5	23095	1.4	RB_50%_high	64QAM	20.64
mid	707.5	23095	1.4	RB_100%	QPSK	21.49
mid	707.5	23095	1.4	RB_100%	16QAM	20.32
mid	707.5	23095	1.4	RB_100%	64QAM	19.91

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	715.3	23173	1.4	RB_1_low	QPSK	22.40
high	715.3	23173	1.4	RB_1_low	16QAM	21.99
high	715.3	23173	1.4	RB_1_low	64QAM	20.94
high	715.3	23173	1.4	RB_1_mid	QPSK	22.51
high	715.3	23173	1.4	RB_1_mid	16QAM	22.03
high	715.3	23173	1.4	RB_1_mid	64QAM	21.02
high	715.3	23173	1.4	RB_1_high	QPSK	22.45
high	715.3	23173	1.4	RB_1_high	16QAM	21.99
high	715.3	23173	1.4	RB_1_high	64QAM	21.01
high	715.3	23173	1.4	RB_50%_low	QPSK	22.32
high	715.3	23173	1.4	RB_50%_low	16QAM	21.61
high	715.3	23173	1.4	RB_50%_low	64QAM	20.59
high	715.3	23173	1.4	RB_50%_mid	QPSK	22.37
high	715.3	23173	1.4	RB_50%_mid	16QAM	21.70
high	715.3	23173	1.4	RB_50%_mid	64QAM	20.60
high	715.3	23173	1.4	RB_50%_high	QPSK	22.34
high	715.3	23173	1.4	RB_50%_high	16QAM	21.61
high	715.3	23173	1.4	RB_50%_high	64QAM	20.61
high	715.3	23173	1.4	RB_100%	QPSK	21.41
high	715.3	23173	1.4	RB_100%	16QAM	20.37
high	715.3	23173	1.4	RB_100%	64QAM	19.49
low	700.5	23025	3	RB_1_low	QPSK	22.80
low	700.5	23025	3	RB_1_low	16QAM	21.63
low	700.5	23025	3	RB_1_low	64QAM	21.05
low	700.5	23025	3	RB_1_mid	QPSK	**22.81**
low	700.5	23025	3	RB_1_mid	16QAM	21.65
low	700.5	23025	3	RB_1_mid	64QAM	20.91
low	700.5	23025	3	RB_1_high	QPSK	22.67
low	700.5	23025	3	RB_1_high	16QAM	21.36
low	700.5	23025	3	RB_1_high	64QAM	20.90
low	700.5	23025	3	RB_50%_low	QPSK	21.80
low	700.5	23025	3	RB_50%_low	16QAM	20.87
low	700.5	23025	3	RB_50%_low	64QAM	20.11
low	700.5	23025	3	RB_50%_mid	QPSK	21.76
low	700.5	23025	3	RB_50%_mid	16QAM	20.85
low	700.5	23025	3	RB_50%_mid	64QAM	20.09
low	700.5	23025	3	RB_50%_high	QPSK	21.79
low	700.5	23025	3	RB_50%_high	16QAM	20.79
low	700.5	23025	3	RB_50%_high	64QAM	20.10
low	700.5	23025	3	RB_100%	QPSK	21.69
low	700.5	23025	3	RB_100%	16QAM	20.80
low	700.5	23025	3	RB_100%	64QAM	19.85

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	707.5	23095	3	RB_1_low	QPSK	22.52
mid	707.5	23095	3	RB_1_low	16QAM	21.41
mid	707.5	23095	3	RB_1_low	64QAM	20.80
mid	707.5	23095	3	RB_1_mid	QPSK	22.38
mid	707.5	23095	3	RB_1_mid	16QAM	21.26
mid	707.5	23095	3	RB_1_mid	64QAM	20.73
mid	707.5	23095	3	RB_1_high	QPSK	22.43
mid	707.5	23095	3	RB_1_high	16QAM	21.27
mid	707.5	23095	3	RB_1_high	64QAM	20.66
mid	707.5	23095	3	RB_50%_low	QPSK	21.53
mid	707.5	23095	3	RB_50%_low	16QAM	20.61
mid	707.5	23095	3	RB_50%_low	64QAM	19.75
mid	707.5	23095	3	RB_50%_mid	QPSK	21.56
mid	707.5	23095	3	RB_50%_mid	16QAM	20.63
mid	707.5	23095	3	RB_50%_mid	64QAM	19.74
mid	707.5	23095	3	RB_50%_high	QPSK	21.50
mid	707.5	23095	3	RB_50%_high	16QAM	20.55
mid	707.5	23095	3	RB_50%_high	64QAM	19.68
mid	707.5	23095	3	RB_100%	QPSK	21.59
mid	707.5	23095	3	RB_100%	16QAM	20.57
mid	707.5	23095	3	RB_100%	64QAM	19.54
high	714.5	23165	3	RB_1_low	QPSK	22.55
high	714.5	23165	3	RB_1_low	16QAM	21.35
high	714.5	23165	3	RB_1_low	64QAM	20.80
high	714.5	23165	3	RB_1_mid	QPSK	22.61
high	714.5	23165	3	RB_1_mid	16QAM	21.36
high	714.5	23165	3	RB_1_mid	64QAM	20.85
high	714.5	23165	3	RB_1_high	QPSK	22.60
high	714.5	23165	3	RB_1_high	16QAM	21.18
high	714.5	23165	3	RB_1_high	64QAM	20.82
high	714.5	23165	3	RB_50%_low	QPSK	21.51
high	714.5	23165	3	RB_50%_low	16QAM	20.57
high	714.5	23165	3	RB_50%_low	64QAM	19.87
high	714.5	23165	3	RB_50%_mid	QPSK	21.50
high	714.5	23165	3	RB_50%_mid	16QAM	20.52
high	714.5	23165	3	RB_50%_mid	64QAM	19.76
high	714.5	23165	3	RB_50%_high	QPSK	21.51
high	714.5	23165	3	RB_50%_high	16QAM	20.58
high	714.5	23165	3	RB_50%_high	64QAM	19.89
high	714.5	23165	3	RB_100%	QPSK	21.45
high	714.5	23165	3	RB_100%	16QAM	20.55
high	714.5	23165	3	RB_100%	64QAM	19.58

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	701.5	23035	5	RB_1_low	QPSK	22.72
low	701.5	23035	5	RB_1_low	16QAM	21.95
low	701.5	23035	5	RB_1_low	64QAM	21.26
low	701.5	23035	5	RB_1_mid	QPSK	22.64
low	701.5	23035	5	RB_1_mid	16QAM	22.02
low	701.5	23035	5	RB_1_mid	64QAM	21.62
low	701.5	23035	5	RB_1_high	QPSK	22.57
low	701.5	23035	5	RB_1_high	16QAM	21.84
low	701.5	23035	5	RB_1_high	64QAM	21.14
low	701.5	23035	5	RB_50%_low	QPSK	21.77
low	701.5	23035	5	RB_50%_low	16QAM	20.93
low	701.5	23035	5	RB_50%_low	64QAM	19.82
low	701.5	23035	5	RB_50%_mid	QPSK	21.74
low	701.5	23035	5	RB_50%_mid	16QAM	20.93
low	701.5	23035	5	RB_50%_mid	64QAM	19.83
low	701.5	23035	5	RB_50%_high	QPSK	21.68
low	701.5	23035	5	RB_50%_high	16QAM	20.81
low	701.5	23035	5	RB_50%_high	64QAM	19.77
low	701.5	23035	5	RB_100%	QPSK	21.74
low	701.5	23035	5	RB_100%	16QAM	20.68
low	701.5	23035	5	RB_100%	64QAM	19.76
mid	707.5	23095	5	RB_1_low	QPSK	22.57
mid	707.5	23095	5	RB_1_low	16QAM	21.77
mid	707.5	23095	5	RB_1_low	64QAM	20.19
mid	707.5	23095	5	RB_1_mid	QPSK	22.64
mid	707.5	23095	5	RB_1_mid	16QAM	21.75
mid	707.5	23095	5	RB_1_mid	64QAM	20.16
mid	707.5	23095	5	RB_1_high	QPSK	22.47
mid	707.5	23095	5	RB_1_high	16QAM	21.76
mid	707.5	23095	5	RB_1_high	64QAM	20.04
mid	707.5	23095	5	RB_50%_low	QPSK	21.58
mid	707.5	23095	5	RB_50%_low	16QAM	20.72
mid	707.5	23095	5	RB_50%_low	64QAM	19.59
mid	707.5	23095	5	RB_50%_mid	QPSK	21.64
mid	707.5	23095	5	RB_50%_mid	16QAM	20.76
mid	707.5	23095	5	RB_50%_mid	64QAM	19.55
mid	707.5	23095	5	RB_50%_high	QPSK	21.57
mid	707.5	23095	5	RB_50%_high	16QAM	20.65
mid	707.5	23095	5	RB_50%_high	64QAM	19.51
mid	707.5	23095	5	RB_100%	QPSK	21.59
mid	707.5	23095	5	RB_100%	16QAM	20.50
mid	707.5	23095	5	RB_100%	64QAM	19.67

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	713.5	23155	5	RB_1_low	QPSK	22.38
high	713.5	23155	5	RB_1_low	16QAM	21.60
high	713.5	23155	5	RB_1_low	64QAM	21.06
high	713.5	23155	5	RB_1_mid	QPSK	22.48
high	713.5	23155	5	RB_1_mid	16QAM	21.67
high	713.5	23155	5	RB_1_mid	64QAM	21.12
high	713.5	23155	5	RB_1_high	QPSK	22.44
high	713.5	23155	5	RB_1_high	16QAM	21.72
high	713.5	23155	5	RB_1_high	64QAM	21.13
high	713.5	23155	5	RB_50%_low	QPSK	21.54
high	713.5	23155	5	RB_50%_low	16QAM	20.59
high	713.5	23155	5	RB_50%_low	64QAM	19.60
high	713.5	23155	5	RB_50%_mid	QPSK	21.47
high	713.5	23155	5	RB_50%_mid	16QAM	20.62
high	713.5	23155	5	RB_50%_mid	64QAM	19.58
high	713.5	23155	5	RB_50%_high	QPSK	21.50
high	713.5	23155	5	RB_50%_high	16QAM	20.63
high	713.5	23155	5	RB_50%_high	64QAM	19.57
high	713.5	23155	5	RB_100%	QPSK	21.45
high	713.5	23155	5	RB_100%	16QAM	20.46
high	713.5	23155	5	RB_100%	64QAM	19.53
low	**704**	**23060**	**10**	**RB_1_low**	**QPSK**	**22.72**
low	704	23060	10	RB_1_low	16QAM	21.63
low	704	23060	10	RB_1_low	64QAM	21.00
low	704	23060	10	RB_1_mid	QPSK	22.52
low	704	23060	10	RB_1_mid	16QAM	21.58
low	704	23060	10	RB_1_mid	64QAM	20.76
low	704	23060	10	RB_1_high	QPSK	22.36
low	704	23060	10	RB_1_high	16QAM	21.27
low	704	23060	10	RB_1_high	64QAM	20.66
low	**704**	**23060**	**10**	**RB_50%_low**	**QPSK**	**21.78**
low	704	23060	10	RB_50%_low	16QAM	20.75
low	704	23060	10	RB_50%_low	64QAM	19.73
low	704	23060	10	RB_50%_mid	QPSK	21.71
low	704	23060	10	RB_50%_mid	16QAM	20.66
low	704	23060	10	RB_50%_mid	64QAM	19.79
low	704	23060	10	RB_50%_high	QPSK	21.56
low	704	23060	10	RB_50%_high	16QAM	20.62
low	704	23060	10	RB_50%_high	64QAM	19.74
low	704	23060	10	RB_100%	QPSK	21.73
low	704	23060	10	RB_100%	16QAM	20.67
low	704	23060	10	RB_100%	64QAM	19.72

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	**707.5**	**23095**	**10**	**RB_1_low**	**QPSK**	**22.62**
mid	707.5	23095	10	RB_1_low	16QAM	21.52
mid	707.5	23095	10	RB_1_low	64QAM	20.71
mid	707.5	23095	10	RB_1_mid	QPSK	22.54
mid	707.5	23095	10	RB_1_mid	16QAM	21.33
mid	707.5	23095	10	RB_1_mid	64QAM	20.70
mid	707.5	23095	10	RB_1_high	QPSK	22.33
mid	707.5	23095	10	RB_1_high	16QAM	21.25
mid	707.5	23095	10	RB_1_high	64QAM	20.65
mid	707.5	23095	10	RB_50%_low	QPSK	21.59
mid	707.5	23095	10	RB_50%_low	16QAM	20.66
mid	707.5	23095	10	RB_50%_low	64QAM	19.61
mid	707.5	23095	10	RB_50%_mid	QPSK	21.64
mid	707.5	23095	10	RB_50%_mid	16QAM	20.60
mid	707.5	23095	10	RB_50%_mid	64QAM	19.60
mid	707.5	23095	10	RB_50%_high	QPSK	21.55
mid	707.5	23095	10	RB_50%_high	16QAM	20.52
mid	707.5	23095	10	RB_50%_high	64QAM	19.54
mid	707.5	23095	10	RB_100%	QPSK	21.63
mid	707.5	23095	10	RB_100%	16QAM	20.60
mid	707.5	23095	10	RB_100%	64QAM	19.65
high	**711**	**23130**	**10**	**RB_1_low**	**QPSK**	**22.76**
high	711	23130	10	RB_1_low	16QAM	21.39
high	711	23130	10	RB_1_low	64QAM	20.67
high	711	23130	10	RB_1_mid	QPSK	22.52
high	711	23130	10	RB_1_mid	16QAM	21.30
high	711	23130	10	RB_1_mid	64QAM	20.58
high	711	23130	10	RB_1_high	QPSK	22.62
high	711	23130	10	RB_1_high	16QAM	21.23
high	711	23130	10	RB_1_high	64QAM	20.73
high	711	23130	10	RB_50%_low	QPSK	21.51
high	711	23130	10	RB_50%_low	16QAM	20.64
high	711	23130	10	RB_50%_low	64QAM	19.57
high	711	23130	10	RB_50%_mid	QPSK	21.57
high	711	23130	10	RB_50%_mid	16QAM	20.56
high	711	23130	10	RB_50%_mid	64QAM	19.62
high	711	23130	10	RB_50%_high	QPSK	21.63
high	711	23130	10	RB_50%_high	16QAM	20.49
high	711	23130	10	RB_50%_high	64QAM	19.67
high	711	23130	10	RB_100%	QPSK	21.40
high	711	23130	10	RB_100%	16QAM	20.59
high	711	23130	10	RB_100%	64QAM	19.51

Table 20: Test results conducted power measurement LTE FDD12 700 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	779.5	23205	5	RB_1_low	QPSK	23.30
low	779.5	23205	5	RB_1_low	16QAM	22.57
low	779.5	23205	5	RB_1_low	64QAM	21.97
low	**779.5**	**23205**	**5**	**RB_1_mid**	**QPSK**	**23.44**
low	779.5	23205	5	RB_1_mid	16QAM	22.57
low	779.5	23205	5	RB_1_mid	64QAM	22.39
low	779.5	23205	5	RB_1_high	QPSK	23.43
low	779.5	23205	5	RB_1_high	16QAM	22.68
low	779.5	23205	5	RB_1_high	64QAM	22.17
low	779.5	23205	5	RB_50%_low	QPSK	22.58
low	779.5	23205	5	RB_50%_low	16QAM	21.64
low	779.5	23205	5	RB_50%_low	64QAM	20.51
low	779.5	23205	5	RB_50%_mid	QPSK	22.52
low	779.5	23205	5	RB_50%_mid	16QAM	21.72
low	779.5	23205	5	RB_50%_mid	64QAM	20.66
low	779.5	23205	5	RB_50%_high	QPSK	22.66
low	779.5	23205	5	RB_50%_high	16QAM	21.70
low	779.5	23205	5	RB_50%_high	64QAM	20.65
low	779.5	23205	5	RB_100%	QPSK	22.55
low	779.5	23205	5	RB_100%	16QAM	21.44
low	779.5	23205	5	RB_100%	64QAM	20.57
mid	782	23230	5	RB_1_low	QPSK	23.43
mid	782	23230	5	RB_1_low	16QAM	22.69
mid	782	23230	5	RB_1_low	64QAM	21.04
mid	782	23230	5	RB_1_mid	QPSK	23.59
mid	782	23230	5	RB_1_mid	16QAM	22.80
mid	782	23230	5	RB_1_mid	64QAM	21.19
mid	782	23230	5	RB_1_high	QPSK	23.66
mid	782	23230	5	RB_1_high	16QAM	22.78
mid	782	23230	5	RB_1_high	64QAM	21.22
mid	782	23230	5	RB_50%_low	QPSK	22.60
mid	782	23230	5	RB_50%_low	16QAM	21.74
mid	782	23230	5	RB_50%_low	64QAM	20.60
mid	782	23230	5	RB_50%_mid	QPSK	22.60
mid	782	23230	5	RB_50%_mid	16QAM	21.77
mid	782	23230	5	RB_50%_mid	64QAM	20.63
mid	782	23230	5	RB_50%_high	QPSK	22.75
mid	782	23230	5	RB_50%_high	16QAM	21.85
mid	782	23230	5	RB_50%_high	64QAM	20.60
mid	782	23230	5	RB_100%	QPSK	22.65
mid	782	23230	5	RB_100%	16QAM	21.59
mid	782	23230	5	RB_100%	64QAM	20.66

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	784.5	23255	5	RB_1_low	QPSK	23.52
high	784.5	23255	5	RB_1_low	16QAM	22.76
high	784.5	23255	5	RB_1_low	64QAM	22.07
high	784.5	23255	5	RB_1_mid	QPSK	23.48
high	784.5	23255	5	RB_1_mid	16QAM	22.75
high	784.5	23255	5	RB_1_mid	64QAM	22.27
high	**784.5**	**23255**	**5**	**RB_1_high**	**QPSK**	**23.59**
high	784.5	23255	5	RB_1_high	16QAM	22.82
high	784.5	23255	5	RB_1_high	64QAM	22.21
high	784.5	23255	5	RB_50%_low	QPSK	22.62
high	784.5	23255	5	RB_50%_low	16QAM	21.77
high	784.5	23255	5	RB_50%_low	64QAM	20.69
high	784.5	23255	5	RB_50%_mid	QPSK	22.59
high	784.5	23255	5	RB_50%_mid	16QAM	21.73
high	784.5	23255	5	RB_50%_mid	64QAM	20.75
high	784.5	23255	5	RB_50%_high	QPSK	22.63
high	784.5	23255	5	RB_50%_high	16QAM	21.79
high	784.5	23255	5	RB_50%_high	64QAM	20.76
high	784.5	23255	5	RB_100%	QPSK	22.67
high	784.5	23255	5	RB_100%	16QAM	21.47
high	784.5	23255	5	RB_100%	64QAM	20.57
mid	782	23230	10	RB_1_low	QPSK	23.40
mid	782	23230	10	RB_1_low	16QAM	22.27
mid	782	23230	10	RB_1_low	64QAM	21.81
mid	782	23230	10	RB_1_mid	QPSK	23.50
mid	782	23230	10	RB_1_mid	16QAM	22.40
mid	782	23230	10	RB_1_mid	64QAM	22.06
mid	**782**	**23230**	**10**	**RB_1_high**	**QPSK**	**23.69**
mid	782	23230	10	RB_1_high	16QAM	22.34
mid	782	23230	10	RB_1_high	64QAM	21.78
mid	782	23230	10	RB_50%_low	QPSK	22.60
mid	782	23230	10	RB_50%_low	16QAM	21.68
mid	782	23230	10	RB_50%_low	64QAM	20.56
mid	782	23230	10	RB_50%_mid	QPSK	22.61
mid	782	23230	10	RB_50%_mid	16QAM	21.69
mid	782	23230	10	RB_50%_mid	64QAM	20.66
mid	**782**	**23230**	**10**	**RB_50%_high**	**QPSK**	**22.72**
mid	782	23230	10	RB_50%_high	16QAM	21.74
mid	782	23230	10	RB_50%_high	64QAM	20.71
mid	782	23230	10	RB_100%	QPSK	22.60
mid	782	23230	10	RB_100%	16QAM	21.66
mid	782	23230	10	RB_100%	64QAM	20.69

Table 21: Test results conducted power measurement LTE FDD13 700 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	**790.5**	**23305**	**5**	**RB_1_low**	**QPSK**	**23.41**
low	790.5	23305	5	RB_1_low	16QAM	22.57
low	790.5	23305	5	RB_1_low	64QAM	21.84
low	790.5	23305	5	RB_1_mid	QPSK	23.38
low	790.5	23305	5	RB_1_mid	16QAM	22.86
low	790.5	23305	5	RB_1_mid	64QAM	21.99
low	790.5	23305	5	RB_1_high	QPSK	23.40
low	790.5	23305	5	RB_1_high	16QAM	22.67
low	790.5	23305	5	RB_1_high	64QAM	22.07
low	790.5	23305	5	RB_50%_low	QPSK	22.56
low	790.5	23305	5	RB_50%_low	16QAM	21.59
low	790.5	23305	5	RB_50%_low	64QAM	20.54
low	790.5	23305	5	RB_50%_mid	QPSK	22.72
low	790.5	23305	5	RB_50%_mid	16QAM	21.70
low	790.5	23305	5	RB_50%_mid	64QAM	20.66
low	790.5	23305	5	RB_50%_high	QPSK	22.56
low	790.5	23305	5	RB_50%_high	16QAM	21.70
low	790.5	23305	5	RB_50%_high	64QAM	20.62
low	790.5	23305	5	RB_100%	QPSK	22.54
low	790.5	23305	5	RB_100%	16QAM	21.41
low	790.5	23305	5	RB_100%	64QAM	20.56
mid	793	23330	5	RB_1_low	QPSK	23.48
mid	793	23330	5	RB_1_low	16QAM	22.62
mid	793	23330	5	RB_1_low	64QAM	20.81
mid	793	23330	5	RB_1_mid	QPSK	23.56
mid	793	23330	5	RB_1_mid	16QAM	22.67
mid	793	23330	5	RB_1_mid	64QAM	21.05
mid	793	23330	5	RB_1_high	QPSK	23.38
mid	793	23330	5	RB_1_high	16QAM	22.58
mid	793	23330	5	RB_1_high	64QAM	20.96
mid	793	23330	5	RB_50%_low	QPSK	22.44
mid	793	23330	5	RB_50%_low	16QAM	21.61
mid	793	23330	5	RB_50%_low	64QAM	20.45
mid	793	23330	5	RB_50%_mid	QPSK	22.46
mid	793	23330	5	RB_50%_mid	16QAM	21.63
mid	793	23330	5	RB_50%_mid	64QAM	20.45
mid	793	23330	5	RB_50%_high	QPSK	22.51
mid	793	23330	5	RB_50%_high	16QAM	21.61
mid	793	23330	5	RB_50%_high	64QAM	20.44
mid	793	23330	5	RB_100%	QPSK	22.42
mid	793	23330	5	RB_100%	16QAM	21.32
mid	793	23330	5	RB_100%	64QAM	20.53

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	795.5	23355	5	RB_1_low	QPSK	23.43
high	795.5	23355	5	RB_1_low	16QAM	22.65
high	795.5	23355	5	RB_1_low	64QAM	22.00
high	**795.5**	**23355**	**5**	**RB_1_mid**	**QPSK**	**23.45**
high	795.5	23355	5	RB_1_mid	16QAM	22.61
high	795.5	23355	5	RB_1_mid	64QAM	21.86
high	795.5	23355	5	RB_1_high	QPSK	23.19
high	795.5	23355	5	RB_1_high	16QAM	22.44
high	795.5	23355	5	RB_1_high	64QAM	21.75
high	795.5	23355	5	RB_50%_low	QPSK	22.44
high	795.5	23355	5	RB_50%_low	16QAM	21.61
high	795.5	23355	5	RB_50%_low	64QAM	20.48
high	795.5	23355	5	RB_50%_mid	QPSK	22.51
high	795.5	23355	5	RB_50%_mid	16QAM	21.61
high	795.5	23355	5	RB_50%_mid	64QAM	20.49
high	795.5	23355	5	RB_50%_high	QPSK	22.45
high	795.5	23355	5	RB_50%_high	16QAM	21.61
high	795.5	23355	5	RB_50%_high	64QAM	20.48
high	795.5	23355	5	RB_100%	QPSK	22.45
high	795.5	23355	5	RB_100%	16QAM	21.36
high	795.5	23355	5	RB_100%	64QAM	20.49
mid	**793**	**23330**	**10**	**RB_1_low**	**QPSK**	**23.61**
mid	793	23330	10	RB_1_low	16QAM	22.45
mid	793	23330	10	RB_1_low	64QAM	21.67
mid	793	23330	10	RB_1_mid	QPSK	23.43
mid	793	23330	10	RB_1_mid	16QAM	22.27
mid	793	23330	10	RB_1_mid	64QAM	21.64
mid	793	23330	10	RB_1_high	QPSK	23.25
mid	793	23330	10	RB_1_high	16QAM	22.20
mid	793	23330	10	RB_1_high	64QAM	21.44
mid	793	23330	10	RB_50%_low	QPSK	22.47
mid	793	23330	10	RB_50%_low	16QAM	21.48
mid	793	23330	10	RB_50%_low	64QAM	20.56
mid	**793**	**23330**	**10**	**RB_50%_mid**	**QPSK**	**22.51**
mid	793	23330	10	RB_50%_mid	16QAM	21.56
mid	793	23330	10	RB_50%_mid	64QAM	20.52
mid	793	23330	10	RB_50%_high	QPSK	22.43
mid	793	23330	10	RB_50%_high	16QAM	21.46
mid	793	23330	10	RB_50%_high	64QAM	20.34
mid	793	23330	10	RB_100%	QPSK	22.56
mid	793	23330	10	RB_100%	16QAM	21.50
mid	793	23330	10	RB_100%	64QAM	20.48

Table 22: Test results conducted power measurement LTE FDD14 700 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	706.5	23755	5	RB_1_low	QPSK	22.41
low	706.5	23755	5	RB_1_low	16QAM	21.67
low	706.5	23755	5	RB_1_low	64QAM	20.99
low	706.5	23755	5	RB_1_mid	QPSK	22.41
low	706.5	23755	5	RB_1_mid	16QAM	21.69
low	706.5	23755	5	RB_1_mid	64QAM	21.13
low	706.5	23755	5	RB_1_high	QPSK	22.38
low	706.5	23755	5	RB_1_high	16QAM	21.64
low	706.5	23755	5	RB_1_high	64QAM	21.05
low	706.5	23755	5	RB_50%_low	QPSK	21.50
low	706.5	23755	5	RB_50%_low	16QAM	20.66
low	706.5	23755	5	RB_50%_low	64QAM	19.57
low	706.5	23755	5	RB_50%_mid	QPSK	21.51
low	706.5	23755	5	RB_50%_mid	16QAM	20.67
low	706.5	23755	5	RB_50%_mid	64QAM	19.67
low	706.5	23755	5	RB_50%_high	QPSK	21.51
low	706.5	23755	5	RB_50%_high	16QAM	20.62
low	706.5	23755	5	RB_50%_high	64QAM	19.63
low	706.5	23755	5	RB_100%	QPSK	21.55
low	706.5	23755	5	RB_100%	16QAM	20.42
low	706.5	23755	5	RB_100%	64QAM	19.51
mid	710	23790	5	RB_1_low	QPSK	22.48
mid	710	23790	5	RB_1_low	16QAM	21.59
mid	710	23790	5	RB_1_low	64QAM	19.95
mid	710	23790	5	RB_1_mid	QPSK	22.52
mid	710	23790	5	RB_1_mid	16QAM	21.57
mid	710	23790	5	RB_1_mid	64QAM	20.02
mid	710	23790	5	RB_1_high	QPSK	22.44
mid	710	23790	5	RB_1_high	16QAM	21.68
mid	710	23790	5	RB_1_high	64QAM	20.04
mid	710	23790	5	RB_50%_low	QPSK	21.44
mid	710	23790	5	RB_50%_low	16QAM	20.56
mid	710	23790	5	RB_50%_low	64QAM	19.46
mid	710	23790	5	RB_50%_mid	QPSK	21.40
mid	710	23790	5	RB_50%_mid	16QAM	20.52
mid	710	23790	5	RB_50%_mid	64QAM	19.39
mid	710	23790	5	RB_50%_high	QPSK	21.50
mid	710	23790	5	RB_50%_high	16QAM	20.58
mid	710	23790	5	RB_50%_high	64QAM	19.40
mid	710	23790	5	RB_100%	QPSK	21.41
mid	710	23790	5	RB_100%	16QAM	20.36
mid	710	23790	5	RB_100%	64QAM	19.50

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	713.5	23825	5	RB_1_low	QPSK	22.30
high	713.5	23825	5	RB_1_low	16QAM	21.57
high	713.5	23825	5	RB_1_low	64QAM	21.01
high	713.5	23825	5	RB_1_mid	QPSK	22.41
high	713.5	23825	5	RB_1_mid	16QAM	21.72
high	713.5	23825	5	RB_1_mid	64QAM	20.98
high	713.5	23825	5	RB_1_high	QPSK	22.37
high	713.5	23825	5	RB_1_high	16QAM	21.74
high	713.5	23825	5	RB_1_high	64QAM	21.05
high	713.5	23825	5	RB_50%_low	QPSK	21.37
high	713.5	23825	5	RB_50%_low	16QAM	20.55
high	713.5	23825	5	RB_50%_low	64QAM	19.49
high	713.5	23825	5	RB_50%_mid	QPSK	21.47
high	713.5	23825	5	RB_50%_mid	16QAM	20.65
high	713.5	23825	5	RB_50%_mid	64QAM	19.60
high	713.5	23825	5	RB_50%_high	QPSK	21.53
high	713.5	23825	5	RB_50%_high	16QAM	20.59
high	713.5	23825	5	RB_50%_high	64QAM	19.56
high	713.5	23825	5	RB_100%	QPSK	21.47
high	713.5	23825	5	RB_100%	16QAM	20.38
high	713.5	23825	5	RB_100%	64QAM	19.53
low	**709**	**23780**	**10**	**RB_1_low**	**QPSK**	**22.60**
low	709	23780	10	RB_1_low	16QAM	21.44
low	709	23780	10	RB_1_low	64QAM	20.63
low	709	23780	10	RB_1_mid	QPSK	22.50
low	709	23780	10	RB_1_mid	16QAM	21.43
low	709	23780	10	RB_1_mid	64QAM	20.57
low	709	23780	10	RB_1_high	QPSK	22.46
low	709	23780	10	RB_1_high	16QAM	21.23
low	709	23780	10	RB_1_high	64QAM	20.65
low	709	23780	10	RB_50%_low	QPSK	21.42
low	709	23780	10	RB_50%_low	16QAM	20.58
low	709	23780	10	RB_50%_low	64QAM	19.50
low	709	23780	10	RB_50%_mid	QPSK	21.48
low	709	23780	10	RB_50%_mid	16QAM	20.46
low	709	23780	10	RB_50%_mid	64QAM	19.50
low	709	23780	10	RB_50%_high	QPSK	21.35
low	709	23780	10	RB_50%_high	16QAM	20.44
low	709	23780	10	RB_50%_high	64QAM	19.44
low	709	23780	10	RB_100%	QPSK	21.34
low	709	23780	10	RB_100%	16QAM	20.46
low	709	23780	10	RB_100%	64QAM	19.44

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	**710**	**23790**	**10**	**RB_1_low**	**QPSK**	**22.48**
mid	710	23790	10	RB_1_low	16QAM	21.25
mid	710	23790	10	RB_1_low	64QAM	20.63
mid	710	23790	10	RB_1_mid	QPSK	22.35
mid	710	23790	10	RB_1_mid	16QAM	21.10
mid	710	23790	10	RB_1_mid	64QAM	20.57
mid	710	23790	10	RB_1_high	QPSK	22.32
mid	710	23790	10	RB_1_high	16QAM	21.20
mid	710	23790	10	RB_1_high	64QAM	20.76
mid	710	23790	10	RB_50%_low	QPSK	21.49
mid	710	23790	10	RB_50%_low	16QAM	20.44
mid	710	23790	10	RB_50%_low	64QAM	19.42
mid	710	23790	10	RB_50%_mid	QPSK	21.37
mid	710	23790	10	RB_50%_mid	16QAM	20.47
mid	710	23790	10	RB_50%_mid	64QAM	19.30
mid	**710**	**23790**	**10**	**RB_50%_high**	**QPSK**	**21.50**
mid	710	23790	10	RB_50%_high	16QAM	20.41
mid	710	23790	10	RB_50%_high	64QAM	19.36
mid	710	23790	10	RB_100%	QPSK	21.44
mid	710	23790	10	RB_100%	16QAM	20.30
mid	710	23790	10	RB_100%	64QAM	19.35
high	**711**	**23800**	**10**	**RB_1_low**	**QPSK**	**22.66**
high	711	23800	10	RB_1_low	16QAM	21.16
high	711	23800	10	RB_1_low	64QAM	20.66
high	711	23800	10	RB_1_mid	QPSK	22.54
high	711	23800	10	RB_1_mid	16QAM	21.19
high	711	23800	10	RB_1_mid	64QAM	20.57
high	711	23800	10	RB_1_high	QPSK	22.63
high	711	23800	10	RB_1_high	16QAM	21.22
high	711	23800	10	RB_1_high	64QAM	20.93
high	711	23800	10	RB_50%_low	QPSK	21.38
high	711	23800	10	RB_50%_low	16QAM	20.44
high	711	23800	10	RB_50%_low	64QAM	19.50
high	711	23800	10	RB_50%_mid	QPSK	21.45
high	711	23800	10	RB_50%_mid	16QAM	20.56
high	711	23800	10	RB_50%_mid	64QAM	19.47
high	711	23800	10	RB_50%_high	QPSK	21.45
high	711	23800	10	RB_50%_high	16QAM	20.52
high	711	23800	10	RB_50%_high	64QAM	19.58
high	711	23800	10	RB_100%	QPSK	21.35
high	711	23800	10	RB_100%	16QAM	20.51
high	711	23800	10	RB_100%	64QAM	19.48

Table 23: Test results conducted power measurement LTE FDD 17 700 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1850.7	26047	1.4	RB_1_low	QPSK	23.04
low	1850.7	26047	1.4	RB_1_low	16QAM	21.98
low	1850.7	26047	1.4	RB_1_low	64QAM	21.17
low	1850.7	26047	1.4	RB_1_mid	QPSK	23.16
low	1850.7	26047	1.4	RB_1_mid	16QAM	22.05
low	1850.7	26047	1.4	RB_1_mid	64QAM	21.09
low	1850.7	26047	1.4	RB_1_high	QPSK	23.11
low	1850.7	26047	1.4	RB_1_high	16QAM	22.11
low	1850.7	26047	1.4	RB_1_high	64QAM	21.22
low	1850.7	26047	1.4	RB_50%_low	QPSK	23.02
low	1850.7	26047	1.4	RB_50%_low	16QAM	22.43
low	1850.7	26047	1.4	RB_50%_low	64QAM	21.29
low	1850.7	26047	1.4	RB_50%_mid	QPSK	23.05
low	1850.7	26047	1.4	RB_50%_mid	16QAM	22.50
low	1850.7	26047	1.4	RB_50%_mid	64QAM	21.39
low	1850.7	26047	1.4	RB_50%_high	QPSK	22.98
low	1850.7	26047	1.4	RB_50%_high	16QAM	22.46
low	1850.7	26047	1.4	RB_50%_high	64QAM	21.36
low	1850.7	26047	1.4	RB_100%	QPSK	22.08
low	1850.7	26047	1.4	RB_100%	16QAM	21.16
low	1850.7	26047	1.4	RB_100%	64QAM	20.49
mid	1882.5	26365	1.4	RB_1_low	QPSK	22.83
mid	1882.5	26365	1.4	RB_1_low	16QAM	21.84
mid	1882.5	26365	1.4	RB_1_low	64QAM	21.10
mid	1882.5	26365	1.4	RB_1_mid	QPSK	22.95
mid	1882.5	26365	1.4	RB_1_mid	16QAM	21.97
mid	1882.5	26365	1.4	RB_1_mid	64QAM	21.31
mid	1882.5	26365	1.4	RB_1_high	QPSK	22.93
mid	1882.5	26365	1.4	RB_1_high	16QAM	21.90
mid	1882.5	26365	1.4	RB_1_high	64QAM	21.24
mid	1882.5	26365	1.4	RB_50%_low	QPSK	22.83
mid	1882.5	26365	1.4	RB_50%_low	16QAM	22.27
mid	1882.5	26365	1.4	RB_50%_low	64QAM	20.92
mid	1882.5	26365	1.4	RB_50%_mid	QPSK	22.86
mid	1882.5	26365	1.4	RB_50%_mid	16QAM	22.36
mid	1882.5	26365	1.4	RB_50%_mid	64QAM	21.01
mid	1882.5	26365	1.4	RB_50%_high	QPSK	22.80
mid	1882.5	26365	1.4	RB_50%_high	16QAM	22.38
mid	1882.5	26365	1.4	RB_50%_high	64QAM	21.06
mid	1882.5	26365	1.4	RB_100%	QPSK	22.00
mid	1882.5	26365	1.4	RB_100%	16QAM	21.05
mid	1882.5	26365	1.4	RB_100%	64QAM	20.26

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	1914.3	26683	1.4	RB_1_low	QPSK	22.86
high	1914.3	26683	1.4	RB_1_low	16QAM	21.81
high	1914.3	26683	1.4	RB_1_low	64QAM	20.93
high	1914.3	26683	1.4	RB_1_mid	QPSK	23.04
high	1914.3	26683	1.4	RB_1_mid	16QAM	21.95
high	1914.3	26683	1.4	RB_1_mid	64QAM	21.14
high	1914.3	26683	1.4	RB_1_high	QPSK	22.96
high	1914.3	26683	1.4	RB_1_high	16QAM	21.89
high	1914.3	26683	1.4	RB_1_high	64QAM	21.05
high	1914.3	26683	1.4	RB_50%_low	QPSK	22.89
high	1914.3	26683	1.4	RB_50%_low	16QAM	22.29
high	1914.3	26683	1.4	RB_50%_low	64QAM	21.11
high	1914.3	26683	1.4	RB_50%_mid	QPSK	22.95
high	1914.3	26683	1.4	RB_50%_mid	16QAM	22.39
high	1914.3	26683	1.4	RB_50%_mid	64QAM	21.16
high	1914.3	26683	1.4	RB_50%_high	QPSK	22.83
high	1914.3	26683	1.4	RB_50%_high	16QAM	22.33
high	1914.3	26683	1.4	RB_50%_high	64QAM	21.17
high	1914.3	26683	1.4	RB_100%	QPSK	21.95
high	1914.3	26683	1.4	RB_100%	16QAM	21.04
high	1914.3	26683	1.4	RB_100%	64QAM	20.35
low	1851.5	26055	3	RB_1_low	QPSK	23.10
low	1851.5	26055	3	RB_1_low	16QAM	21.84
low	1851.5	26055	3	RB_1_low	64QAM	21.59
low	1851.5	26055	3	RB_1_mid	QPSK	22.96
low	1851.5	26055	3	RB_1_mid	16QAM	22.03
low	1851.5	26055	3	RB_1_mid	64QAM	21.52
low	1851.5	26055	3	RB_1_high	QPSK	23.19
low	1851.5	26055	3	RB_1_high	16QAM	21.92
low	1851.5	26055	3	RB_1_high	64QAM	21.47
low	1851.5	26055	3	RB_50%_low	QPSK	22.15
low	1851.5	26055	3	RB_50%_low	16QAM	21.20
low	1851.5	26055	3	RB_50%_low	64QAM	20.43
low	1851.5	26055	3	RB_50%_mid	QPSK	22.14
low	1851.5	26055	3	RB_50%_mid	16QAM	21.13
low	1851.5	26055	3	RB_50%_mid	64QAM	20.47
low	1851.5	26055	3	RB_50%_high	QPSK	22.17
low	1851.5	26055	3	RB_50%_high	16QAM	21.25
low	1851.5	26055	3	RB_50%_high	64QAM	20.54
low	1851.5	26055	3	RB_100%	QPSK	22.11
low	1851.5	26055	3	RB_100%	16QAM	21.23
low	1851.5	26055	3	RB_100%	64QAM	20.17

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1882.5	26365	3	RB_1_low	QPSK	22.86
mid	1882.5	26365	3	RB_1_low	16QAM	21.83
mid	1882.5	26365	3	RB_1_low	64QAM	21.13
mid	1882.5	26365	3	RB_1_mid	QPSK	22.95
mid	1882.5	26365	3	RB_1_mid	16QAM	21.84
mid	1882.5	26365	3	RB_1_mid	64QAM	21.12
mid	1882.5	26365	3	RB_1_high	QPSK	23.02
mid	1882.5	26365	3	RB_1_high	16QAM	21.88
mid	1882.5	26365	3	RB_1_high	64QAM	21.17
mid	1882.5	26365	3	RB_50%_low	QPSK	22.03
mid	1882.5	26365	3	RB_50%_low	16QAM	20.99
mid	1882.5	26365	3	RB_50%_low	64QAM	20.14
mid	1882.5	26365	3	RB_50%_mid	QPSK	22.12
mid	1882.5	26365	3	RB_50%_mid	16QAM	21.05
mid	1882.5	26365	3	RB_50%_mid	64QAM	20.09
mid	1882.5	26365	3	RB_50%_high	QPSK	22.17
mid	1882.5	26365	3	RB_50%_high	16QAM	21.09
mid	1882.5	26365	3	RB_50%_high	64QAM	20.24
mid	1882.5	26365	3	RB_100%	QPSK	22.04
mid	1882.5	26365	3	RB_100%	16QAM	21.14
mid	1882.5	26365	3	RB_100%	64QAM	19.98
high	1913.5	26675	3	RB_1_low	QPSK	22.93
high	1913.5	26675	3	RB_1_low	16QAM	21.77
high	1913.5	26675	3	RB_1_low	64QAM	21.32
high	1913.5	26675	3	RB_1_mid	QPSK	22.97
high	1913.5	26675	3	RB_1_mid	16QAM	21.85
high	1913.5	26675	3	RB_1_mid	64QAM	21.15
high	1913.5	26675	3	RB_1_high	QPSK	23.12
high	1913.5	26675	3	RB_1_high	16QAM	21.89
high	1913.5	26675	3	RB_1_high	64QAM	21.37
high	1913.5	26675	3	RB_50%_low	QPSK	21.99
high	1913.5	26675	3	RB_50%_low	16QAM	20.98
high	1913.5	26675	3	RB_50%_low	64QAM	20.26
high	1913.5	26675	3	RB_50%_mid	QPSK	22.05
high	1913.5	26675	3	RB_50%_mid	16QAM	21.04
high	1913.5	26675	3	RB_50%_mid	64QAM	20.28
high	1913.5	26675	3	RB_50%_high	QPSK	22.07
high	1913.5	26675	3	RB_50%_high	16QAM	21.06
high	1913.5	26675	3	RB_50%_high	64QAM	20.36
high	1913.5	26675	3	RB_100%	QPSK	22.03
high	1913.5	26675	3	RB_100%	16QAM	21.10
high	1913.5	26675	3	RB_100%	64QAM	20.15

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1852.5	26065	5	RB_1_low	QPSK	23.04
low	1852.5	26065	5	RB_1_low	16QAM	22.32
low	1852.5	26065	5	RB_1_low	64QAM	21.83
low	1852.5	26065	5	RB_1_mid	QPSK	22.97
low	1852.5	26065	5	RB_1_mid	16QAM	22.26
low	1852.5	26065	5	RB_1_mid	64QAM	21.69
low	1852.5	26065	5	RB_1_high	QPSK	23.15
low	1852.5	26065	5	RB_1_high	16QAM	22.32
low	1852.5	26065	5	RB_1_high	64QAM	21.74
low	1852.5	26065	5	RB_50%_low	QPSK	22.12
low	1852.5	26065	5	RB_50%_low	16QAM	21.23
low	1852.5	26065	5	RB_50%_low	64QAM	20.15
low	1852.5	26065	5	RB_50%_mid	QPSK	22.11
low	1852.5	26065	5	RB_50%_mid	16QAM	21.22
low	1852.5	26065	5	RB_50%_mid	64QAM	20.19
low	1852.5	26065	5	RB_50%_high	QPSK	22.18
low	1852.5	26065	5	RB_50%_high	16QAM	21.35
low	1852.5	26065	5	RB_50%_high	64QAM	20.25
low	1852.5	26065	5	RB_100%	QPSK	22.19
low	1852.5	26065	5	RB_100%	16QAM	21.05
low	1852.5	26065	5	RB_100%	64QAM	20.16
mid	1882.5	26365	5	RB_1_low	QPSK	22.97
mid	1882.5	26365	5	RB_1_low	16QAM	22.16
mid	1882.5	26365	5	RB_1_low	64QAM	20.58
mid	1882.5	26365	5	RB_1_mid	QPSK	23.01
mid	1882.5	26365	5	RB_1_mid	16QAM	22.11
mid	1882.5	26365	5	RB_1_mid	64QAM	20.64
mid	1882.5	26365	5	RB_1_high	QPSK	23.15
mid	1882.5	26365	5	RB_1_high	16QAM	22.34
mid	1882.5	26365	5	RB_1_high	64QAM	20.75
mid	1882.5	26365	5	RB_50%_low	QPSK	21.97
mid	1882.5	26365	5	RB_50%_low	16QAM	21.13
mid	1882.5	26365	5	RB_50%_low	64QAM	19.92
mid	1882.5	26365	5	RB_50%_mid	QPSK	21.99
mid	1882.5	26365	5	RB_50%_mid	16QAM	21.15
mid	1882.5	26365	5	RB_50%_mid	64QAM	20.00
mid	1882.5	26365	5	RB_50%_high	QPSK	22.07
mid	1882.5	26365	5	RB_50%_high	16QAM	21.21
mid	1882.5	26365	5	RB_50%_high	64QAM	20.06
mid	1882.5	26365	5	RB_100%	QPSK	22.04
mid	1882.5	26365	5	RB_100%	16QAM	20.97
mid	1882.5	26365	5	RB_100%	64QAM	20.07

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	1912.5	26665	5	RB_1_low	QPSK	22.86
high	1912.5	26665	5	RB_1_low	16QAM	22.23
high	1912.5	26665	5	RB_1_low	64QAM	21.48
high	1912.5	26665	5	RB_1_mid	QPSK	22.92
high	1912.5	26665	5	RB_1_mid	16QAM	22.21
high	1912.5	26665	5	RB_1_mid	64QAM	21.56
high	1912.5	26665	5	RB_1_high	QPSK	22.92
high	1912.5	26665	5	RB_1_high	16QAM	22.22
high	1912.5	26665	5	RB_1_high	64QAM	21.58
high	1912.5	26665	5	RB_50%_low	QPSK	22.00
high	1912.5	26665	5	RB_50%_low	16QAM	21.12
high	1912.5	26665	5	RB_50%_low	64QAM	20.04
high	1912.5	26665	5	RB_50%_mid	QPSK	22.03
high	1912.5	26665	5	RB_50%_mid	16QAM	21.06
high	1912.5	26665	5	RB_50%_mid	64QAM	20.10
high	1912.5	26665	5	RB_50%_high	QPSK	22.07
high	1912.5	26665	5	RB_50%_high	16QAM	21.16
high	1912.5	26665	5	RB_50%_high	64QAM	20.10
high	1912.5	26665	5	RB_100%	QPSK	22.02
high	1912.5	26665	5	RB_100%	16QAM	20.90
high	1912.5	26665	5	RB_100%	64QAM	20.06
low	1855	26090	10	RB_1_low	QPSK	23.14
low	1855	26090	10	RB_1_low	16QAM	21.95
low	1855	26090	10	RB_1_low	64QAM	21.56
low	1855	26090	10	RB_1_mid	QPSK	23.18
low	1855	26090	10	RB_1_mid	16QAM	21.86
low	1855	26090	10	RB_1_mid	64QAM	21.34
low	1855	26090	10	RB_1_high	QPSK	23.14
low	1855	26090	10	RB_1_high	16QAM	21.97
low	1855	26090	10	RB_1_high	64QAM	21.46
low	1855	26090	10	RB_50%_low	QPSK	22.11
low	1855	26090	10	RB_50%_low	16QAM	21.19
low	1855	26090	10	RB_50%_low	64QAM	20.20
low	1855	26090	10	RB_50%_mid	QPSK	22.18
low	1855	26090	10	RB_50%_mid	16QAM	21.11
low	1855	26090	10	RB_50%_mid	64QAM	20.19
low	1855	26090	10	RB_50%_high	QPSK	22.13
low	1855	26090	10	RB_50%_high	16QAM	21.18
low	1855	26090	10	RB_50%_high	64QAM	20.19
low	1855	26090	10	RB_100%	QPSK	22.14
low	1855	26090	10	RB_100%	16QAM	20.97
low	1855	26090	10	RB_100%	64QAM	20.12

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1882.5	26365	10	RB_1_low	QPSK	22.89
mid	1882.5	26365	10	RB_1_low	16QAM	21.76
mid	1882.5	26365	10	RB_1_low	64QAM	21.14
mid	1882.5	26365	10	RB_1_mid	QPSK	22.94
mid	1882.5	26365	10	RB_1_mid	16QAM	21.85
mid	1882.5	26365	10	RB_1_mid	64QAM	21.22
mid	1882.5	26365	10	RB_1_high	QPSK	22.99
mid	1882.5	26365	10	RB_1_high	16QAM	21.86
mid	1882.5	26365	10	RB_1_high	64QAM	21.21
mid	1882.5	26365	10	RB_50%_low	QPSK	22.08
mid	1882.5	26365	10	RB_50%_low	16QAM	21.11
mid	1882.5	26365	10	RB_50%_low	64QAM	20.04
mid	1882.5	26365	10	RB_50%_mid	QPSK	22.13
mid	1882.5	26365	10	RB_50%_mid	16QAM	21.09
mid	1882.5	26365	10	RB_50%_mid	64QAM	20.10
mid	1882.5	26365	10	RB_50%_high	QPSK	22.11
mid	1882.5	26365	10	RB_50%_high	16QAM	21.14
mid	1882.5	26365	10	RB_50%_high	64QAM	20.13
mid	1882.5	26365	10	RB_100%	QPSK	22.04
mid	1882.5	26365	10	RB_100%	16QAM	20.94
mid	1882.5	26365	10	RB_100%	64QAM	20.05
high	1910	26640	10	RB_1_low	QPSK	23.06
high	1910	26640	10	RB_1_low	16QAM	21.87
high	1910	26640	10	RB_1_low	64QAM	21.27
high	1910	26640	10	RB_1_mid	QPSK	23.05
high	1910	26640	10	RB_1_mid	16QAM	21.81
high	1910	26640	10	RB_1_mid	64QAM	21.22
high	1910	26640	10	RB_1_high	QPSK	23.01
high	1910	26640	10	RB_1_high	16QAM	21.78
high	1910	26640	10	RB_1_high	64QAM	21.21
high	1910	26640	10	RB_50%_low	QPSK	21.97
high	1910	26640	10	RB_50%_low	16QAM	21.05
high	1910	26640	10	RB_50%_low	64QAM	20.18
high	1910	26640	10	RB_50%_mid	QPSK	22.11
high	1910	26640	10	RB_50%_mid	16QAM	21.10
high	1910	26640	10	RB_50%_mid	64QAM	20.13
high	1910	26640	10	RB_50%_high	QPSK	21.98
high	1910	26640	10	RB_50%_high	16QAM	21.07
high	1910	26640	10	RB_50%_high	64QAM	20.17
high	1910	26640	10	RB_100%	QPSK	22.07
high	1910	26640	10	RB_100%	16QAM	21.00
high	1910	26640	10	RB_100%	64QAM	20.02

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1857.5	26115	15	RB_1_low	QPSK	**23.22**
low	1857.5	26115	15	RB_1_low	16QAM	22.01
low	1857.5	26115	15	RB_1_low	64QAM	22.02
low	1857.5	26115	15	RB_1_mid	QPSK	23.15
low	1857.5	26115	15	RB_1_mid	16QAM	22.03
low	1857.5	26115	15	RB_1_mid	64QAM	21.96
low	1857.5	26115	15	RB_1_high	QPSK	23.13
low	1857.5	26115	15	RB_1_high	16QAM	22.00
low	1857.5	26115	15	RB_1_high	64QAM	21.99
low	1857.5	26115	15	RB_50%_low	QPSK	22.12
low	1857.5	26115	15	RB_50%_low	16QAM	21.06
low	1857.5	26115	15	RB_50%_low	64QAM	20.18
low	1857.5	26115	15	RB_50%_mid	QPSK	22.16
low	1857.5	26115	15	RB_50%_mid	16QAM	21.16
low	1857.5	26115	15	RB_50%_mid	64QAM	20.11
low	1857.5	26115	15	RB_50%_high	QPSK	22.17
low	1857.5	26115	15	RB_50%_high	16QAM	21.12
low	1857.5	26115	15	RB_50%_high	64QAM	20.17
low	1857.5	26115	15	RB_100%	QPSK	22.12
low	1857.5	26115	15	RB_100%	16QAM	21.12
low	1857.5	26115	15	RB_100%	64QAM	20.15
mid	1882.5	26365	15	RB_1_low	QPSK	22.97
mid	1882.5	26365	15	RB_1_low	16QAM	21.77
mid	1882.5	26365	15	RB_1_low	64QAM	20.98
mid	1882.5	26365	15	RB_1_mid	QPSK	22.85
mid	1882.5	26365	15	RB_1_mid	16QAM	21.76
mid	1882.5	26365	15	RB_1_mid	64QAM	20.94
mid	1882.5	26365	15	RB_1_high	QPSK	23.13
mid	1882.5	26365	15	RB_1_high	16QAM	21.94
mid	1882.5	26365	15	RB_1_high	64QAM	21.30
mid	1882.5	26365	15	RB_50%_low	QPSK	22.07
mid	1882.5	26365	15	RB_50%_low	16QAM	21.02
mid	1882.5	26365	15	RB_50%_low	64QAM	20.15
mid	1882.5	26365	15	RB_50%_mid	QPSK	22.06
mid	1882.5	26365	15	RB_50%_mid	16QAM	21.08
mid	1882.5	26365	15	RB_50%_mid	64QAM	20.21
mid	1882.5	26365	15	RB_50%_high	QPSK	22.12
mid	1882.5	26365	15	RB_50%_high	16QAM	21.15
mid	1882.5	26365	15	RB_50%_high	64QAM	20.18
mid	1882.5	26365	15	RB_100%	QPSK	22.11
mid	1882.5	26365	15	RB_100%	16QAM	21.06
mid	1882.5	26365	15	RB_100%	64QAM	20.10

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	1907.5	26615	15	RB_1_low	QPSK	23.15
high	1907.5	26615	15	RB_1_low	16QAM	21.97
high	1907.5	26615	15	RB_1_low	64QAM	21.83
high	1907.5	26615	15	RB_1_mid	QPSK	23.02
high	1907.5	26615	15	RB_1_mid	16QAM	21.79
high	1907.5	26615	15	RB_1_mid	64QAM	21.99
high	1907.5	26615	15	RB_1_high	QPSK	22.99
high	1907.5	26615	15	RB_1_high	16QAM	21.79
high	1907.5	26615	15	RB_1_high	64QAM	21.67
high	1907.5	26615	15	RB_50%_low	QPSK	22.14
high	1907.5	26615	15	RB_50%_low	16QAM	21.14
high	1907.5	26615	15	RB_50%_low	64QAM	20.20
high	1907.5	26615	15	RB_50%_mid	QPSK	22.08
high	1907.5	26615	15	RB_50%_mid	16QAM	21.06
high	1907.5	26615	15	RB_50%_mid	64QAM	20.09
high	1907.5	26615	15	RB_50%_high	QPSK	22.00
high	1907.5	26615	15	RB_50%_high	16QAM	20.90
high	1907.5	26615	15	RB_50%_high	64QAM	19.94
high	1907.5	26615	15	RB_100%	QPSK	22.00
high	1907.5	26615	15	RB_100%	16QAM	21.13
high	1907.5	26615	15	RB_100%	64QAM	20.14
low	1860	26140	20	RB_1_low	QPSK	22.83
low	1860	26140	20	RB_1_low	16QAM	22.59
low	1860	26140	20	RB_1_low	64QAM	21.47
low	**1860**	**26140**	**20**	**RB_1_mid**	**QPSK**	**22.95**
low	1860	26140	20	RB_1_mid	16QAM	22.58
low	1860	26140	20	RB_1_mid	64QAM	21.55
low	1860	26140	20	RB_1_high	QPSK	22.94
low	1860	26140	20	RB_1_high	16QAM	22.56
low	1860	26140	20	RB_1_high	64QAM	21.57
low	**1860**	**26140**	**20**	**RB_50%_low**	**QPSK**	**22.16**
low	1860	26140	20	RB_50%_low	16QAM	21.17
low	1860	26140	20	RB_50%_low	64QAM	20.14
low	1860	26140	20	RB_50%_mid	QPSK	22.13
low	1860	26140	20	RB_50%_mid	16QAM	21.16
low	1860	26140	20	RB_50%_mid	64QAM	20.20
low	1860	26140	20	RB_50%_high	QPSK	22.11
low	1860	26140	20	RB_50%_high	16QAM	21.14
low	1860	26140	20	RB_50%_high	64QAM	20.20
low	1860	26140	20	RB_100%	QPSK	22.10
low	1860	26140	20	RB_100%	16QAM	21.18
low	1860	26140	20	RB_100%	64QAM	20.19

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1882.5	26365	20	RB_1_low	QPSK	22.88
mid	1882.5	26365	20	RB_1_low	16QAM	22.52
mid	1882.5	26365	20	RB_1_low	64QAM	21.38
mid	1882.5	26365	20	RB_1_mid	QPSK	22.92
mid	1882.5	26365	20	RB_1_mid	16QAM	22.47
mid	1882.5	26365	20	RB_1_mid	64QAM	21.50
mid	**1882.5**	**26365**	**20**	**RB_1_high**	**QPSK**	**22.98**
mid	1882.5	26365	20	RB_1_high	16QAM	22.63
mid	1882.5	26365	20	RB_1_high	64QAM	21.63
mid	1882.5	26365	20	RB_50%_low	QPSK	22.06
mid	1882.5	26365	20	RB_50%_low	16QAM	21.06
mid	1882.5	26365	20	RB_50%_low	64QAM	20.16
mid	1882.5	26365	20	RB_50%_mid	QPSK	22.06
mid	1882.5	26365	20	RB_50%_mid	16QAM	21.13
mid	1882.5	26365	20	RB_50%_mid	64QAM	20.13
mid	1882.5	26365	20	RB_50%_high	QPSK	22.13
mid	1882.5	26365	20	RB_50%_high	16QAM	21.09
mid	1882.5	26365	20	RB_50%_high	64QAM	20.27
mid	1882.5	26365	20	RB_100%	QPSK	22.00
mid	1882.5	26365	20	RB_100%	16QAM	21.19
mid	1882.5	26365	20	RB_100%	64QAM	20.19
high	**1905**	**26590**	**20**	**RB_1_low**	**QPSK**	**22.89**
high	1905	26590	20	RB_1_low	16QAM	22.62
high	1905	26590	20	RB_1_low	64QAM	21.41
high	1905	26590	20	RB_1_mid	QPSK	22.82
high	1905	26590	20	RB_1_mid	16QAM	22.45
high	1905	26590	20	RB_1_mid	64QAM	21.44
high	1905	26590	20	RB_1_high	QPSK	22.82
high	1905	26590	20	RB_1_high	16QAM	22.46
high	1905	26590	20	RB_1_high	64QAM	21.27
high	1905	26590	20	RB_50%_low	QPSK	22.15
high	1905	26590	20	RB_50%_low	16QAM	21.19
high	1905	26590	20	RB_50%_low	64QAM	20.19
high	1905	26590	20	RB_50%_mid	QPSK	22.11
high	1905	26590	20	RB_50%_mid	16QAM	21.16
high	1905	26590	20	RB_50%_mid	64QAM	20.19
high	1905	26590	20	RB_50%_high	QPSK	22.00
high	1905	26590	20	RB_50%_high	16QAM	21.12
high	1905	26590	20	RB_50%_high	64QAM	20.10
high	1905	26590	20	RB_100%	QPSK	22.05
high	1905	26590	20	RB_100%	16QAM	21.25
high	1905	26590	20	RB_100%	64QAM	20.08

Table 24: Test results conducted power measurement LTE FDD 25 1900 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	814.7	26697	1.4	RB_1_low	QPSK	23.27
low	814.7	26697	1.4	RB_1_low	16QAM	22.19
low	814.7	26697	1.4	RB_1_low	64QAM	21.68
low	814.7	26697	1.4	RB_1_mid	QPSK	23.45
low	814.7	26697	1.4	RB_1_mid	16QAM	22.50
low	814.7	26697	1.4	RB_1_mid	64QAM	21.59
low	814.7	26697	1.4	RB_1_high	QPSK	23.34
low	814.7	26697	1.4	RB_1_high	16QAM	22.41
low	814.7	26697	1.4	RB_1_high	64QAM	21.62
low	814.7	26697	1.4	RB_50%_low	QPSK	23.26
low	814.7	26697	1.4	RB_50%_low	16QAM	22.51
low	814.7	26697	1.4	RB_50%_low	64QAM	21.30
low	814.7	26697	1.4	RB_50%_mid	QPSK	23.28
low	814.7	26697	1.4	RB_50%_mid	16QAM	22.66
low	814.7	26697	1.4	RB_50%_mid	64QAM	21.44
low	814.7	26697	1.4	RB_50%_high	QPSK	23.22
low	814.7	26697	1.4	RB_50%_high	16QAM	22.63
low	814.7	26697	1.4	RB_50%_high	64QAM	21.42
low	814.7	26697	1.4	RB_100%	QPSK	22.34
low	814.7	26697	1.4	RB_100%	16QAM	21.44
low	814.7	26697	1.4	RB_100%	64QAM	20.66
mid	831.5	26865	1.4	RB_1_low	QPSK	23.34
mid	831.5	26865	1.4	RB_1_low	16QAM	22.23
mid	831.5	26865	1.4	RB_1_low	64QAM	21.70
mid	831.5	26865	1.4	RB_1_mid	QPSK	**23.52**
mid	831.5	26865	1.4	RB_1_mid	16QAM	22.33
mid	831.5	26865	1.4	RB_1_mid	64QAM	21.70
mid	831.5	26865	1.4	RB_1_high	QPSK	23.33
mid	831.5	26865	1.4	RB_1_high	16QAM	22.32
mid	831.5	26865	1.4	RB_1_high	64QAM	21.55
mid	831.5	26865	1.4	RB_50%_low	QPSK	23.23
mid	831.5	26865	1.4	RB_50%_low	16QAM	22.51
mid	831.5	26865	1.4	RB_50%_low	64QAM	21.27
mid	831.5	26865	1.4	RB_50%_mid	QPSK	23.32
mid	831.5	26865	1.4	RB_50%_mid	16QAM	22.50
mid	831.5	26865	1.4	RB_50%_mid	64QAM	21.32
mid	831.5	26865	1.4	RB_50%_high	QPSK	23.28
mid	831.5	26865	1.4	RB_50%_high	16QAM	22.52
mid	831.5	26865	1.4	RB_50%_high	64QAM	21.17
mid	831.5	26865	1.4	RB_100%	QPSK	22.36
mid	831.5	26865	1.4	RB_100%	16QAM	21.37
mid	831.5	26865	1.4	RB_100%	64QAM	20.24

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	848.3	27033	1.4	RB_1_low	QPSK	23.17
high	848.3	27033	1.4	RB_1_low	16QAM	22.03
high	848.3	27033	1.4	RB_1_low	64QAM	21.38
high	848.3	27033	1.4	RB_1_mid	QPSK	23.21
high	848.3	27033	1.4	RB_1_mid	16QAM	22.17
high	848.3	27033	1.4	RB_1_mid	64QAM	21.45
high	848.3	27033	1.4	RB_1_high	QPSK	23.16
high	848.3	27033	1.4	RB_1_high	16QAM	21.94
high	848.3	27033	1.4	RB_1_high	64QAM	21.45
high	848.3	27033	1.4	RB_50%_low	QPSK	23.11
high	848.3	27033	1.4	RB_50%_low	16QAM	22.35
high	848.3	27033	1.4	RB_50%_low	64QAM	21.15
high	848.3	27033	1.4	RB_50%_mid	QPSK	23.09
high	848.3	27033	1.4	RB_50%_mid	16QAM	22.43
high	848.3	27033	1.4	RB_50%_mid	64QAM	21.26
high	848.3	27033	1.4	RB_50%_high	QPSK	23.01
high	848.3	27033	1.4	RB_50%_high	16QAM	22.38
high	848.3	27033	1.4	RB_50%_high	64QAM	21.17
high	848.3	27033	1.4	RB_100%	QPSK	22.20
high	848.3	27033	1.4	RB_100%	16QAM	21.31
high	848.3	27033	1.4	RB_100%	64QAM	20.44
low	815.5	26705	3	RB_1_low	QPSK	23.44
low	815.5	26705	3	RB_1_low	16QAM	22.21
low	815.5	26705	3	RB_1_low	64QAM	21.63
low	815.5	26705	3	RB_1_mid	QPSK	23.42
low	815.5	26705	3	RB_1_mid	16QAM	22.18
low	815.5	26705	3	RB_1_mid	64QAM	21.75
low	815.5	26705	3	RB_1_high	QPSK	23.35
low	815.5	26705	3	RB_1_high	16QAM	22.16
low	815.5	26705	3	RB_1_high	64QAM	21.59
low	815.5	26705	3	RB_50%_low	QPSK	22.39
low	815.5	26705	3	RB_50%_low	16QAM	21.47
low	815.5	26705	3	RB_50%_low	64QAM	20.74
low	815.5	26705	3	RB_50%_mid	QPSK	22.50
low	815.5	26705	3	RB_50%_mid	16QAM	21.52
low	815.5	26705	3	RB_50%_mid	64QAM	20.72
low	815.5	26705	3	RB_50%_high	QPSK	22.48
low	815.5	26705	3	RB_50%_high	16QAM	21.48
low	815.5	26705	3	RB_50%_high	64QAM	20.71
low	815.5	26705	3	RB_100%	QPSK	22.46
low	815.5	26705	3	RB_100%	16QAM	21.55
low	815.5	26705	3	RB_100%	64QAM	20.49

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	831.5	26865	3	RB_1_low	QPSK	23.30
mid	831.5	26865	3	RB_1_low	16QAM	22.19
mid	831.5	26865	3	RB_1_low	64QAM	21.56
mid	831.5	26865	3	RB_1_mid	QPSK	23.34
mid	831.5	26865	3	RB_1_mid	16QAM	22.22
mid	831.5	26865	3	RB_1_mid	64QAM	21.29
mid	831.5	26865	3	RB_1_high	QPSK	23.29
mid	831.5	26865	3	RB_1_high	16QAM	22.22
mid	831.5	26865	3	RB_1_high	64QAM	21.22
mid	831.5	26865	3	RB_50%_low	QPSK	22.42
mid	831.5	26865	3	RB_50%_low	16QAM	21.45
mid	831.5	26865	3	RB_50%_low	64QAM	20.51
mid	831.5	26865	3	RB_50%_mid	QPSK	22.36
mid	831.5	26865	3	RB_50%_mid	16QAM	21.41
mid	831.5	26865	3	RB_50%_mid	64QAM	20.42
mid	831.5	26865	3	RB_50%_high	QPSK	22.41
mid	831.5	26865	3	RB_50%_high	16QAM	21.43
mid	831.5	26865	3	RB_50%_high	64QAM	20.38
mid	831.5	26865	3	RB_100%	QPSK	22.41
mid	831.5	26865	3	RB_100%	16QAM	21.47
mid	831.5	26865	3	RB_100%	64QAM	20.13
high	847.5	27025	3	RB_1_low	QPSK	23.25
high	847.5	27025	3	RB_1_low	16QAM	22.10
high	847.5	27025	3	RB_1_low	64QAM	21.65
high	847.5	27025	3	RB_1_mid	QPSK	23.33
high	847.5	27025	3	RB_1_mid	16QAM	22.03
high	847.5	27025	3	RB_1_mid	64QAM	21.45
high	847.5	27025	3	RB_1_high	QPSK	23.23
high	847.5	27025	3	RB_1_high	16QAM	21.96
high	847.5	27025	3	RB_1_high	64QAM	21.51
high	847.5	27025	3	RB_50%_low	QPSK	22.26
high	847.5	27025	3	RB_50%_low	16QAM	21.34
high	847.5	27025	3	RB_50%_low	64QAM	20.68
high	847.5	27025	3	RB_50%_mid	QPSK	22.25
high	847.5	27025	3	RB_50%_mid	16QAM	21.31
high	847.5	27025	3	RB_50%_mid	64QAM	20.63
high	847.5	27025	3	RB_50%_high	QPSK	22.24
high	847.5	27025	3	RB_50%_high	16QAM	21.22
high	847.5	27025	3	RB_50%_high	64QAM	20.54
high	847.5	27025	3	RB_100%	QPSK	22.28
high	847.5	27025	3	RB_100%	16QAM	21.35
high	847.5	27025	3	RB_100%	64QAM	20.36

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	816.5	26715	5	RB_1_low	QPSK	23.32
low	816.5	26715	5	RB_1_low	16QAM	22.51
low	816.5	26715	5	RB_1_low	64QAM	21.94
low	816.5	26715	5	RB_1_mid	QPSK	23.34
low	816.5	26715	5	RB_1_mid	16QAM	22.59
low	816.5	26715	5	RB_1_mid	64QAM	22.02
low	816.5	26715	5	RB_1_high	QPSK	23.29
low	816.5	26715	5	RB_1_high	16QAM	22.55
low	816.5	26715	5	RB_1_high	64QAM	21.95
low	816.5	26715	5	RB_50%_low	QPSK	22.42
low	816.5	26715	5	RB_50%_low	16QAM	21.53
low	816.5	26715	5	RB_50%_low	64QAM	20.44
low	816.5	26715	5	RB_50%_mid	QPSK	22.49
low	816.5	26715	5	RB_50%_mid	16QAM	21.61
low	816.5	26715	5	RB_50%_mid	64QAM	20.54
low	816.5	26715	5	RB_50%_high	QPSK	22.45
low	816.5	26715	5	RB_50%_high	16QAM	21.57
low	816.5	26715	5	RB_50%_high	64QAM	20.49
low	816.5	26715	5	RB_100%	QPSK	22.48
low	816.5	26715	5	RB_100%	16QAM	21.35
low	816.5	26715	5	RB_100%	64QAM	20.49
mid	831.5	26865	5	RB_1_low	QPSK	23.30
mid	831.5	26865	5	RB_1_low	16QAM	22.60
mid	831.5	26865	5	RB_1_low	64QAM	20.87
mid	831.5	26865	5	RB_1_mid	QPSK	23.44
mid	831.5	26865	5	RB_1_mid	16QAM	22.63
mid	831.5	26865	5	RB_1_mid	64QAM	20.83
mid	831.5	26865	5	RB_1_high	QPSK	23.48
mid	831.5	26865	5	RB_1_high	16QAM	22.66
mid	831.5	26865	5	RB_1_high	64QAM	20.66
mid	831.5	26865	5	RB_50%_low	QPSK	22.37
mid	831.5	26865	5	RB_50%_low	16QAM	21.50
mid	831.5	26865	5	RB_50%_low	64QAM	20.30
mid	831.5	26865	5	RB_50%_mid	QPSK	22.44
mid	831.5	26865	5	RB_50%_mid	16QAM	21.54
mid	831.5	26865	5	RB_50%_mid	64QAM	20.19
mid	831.5	26865	5	RB_50%_high	QPSK	22.39
mid	831.5	26865	5	RB_50%_high	16QAM	21.56
mid	831.5	26865	5	RB_50%_high	64QAM	20.13
mid	831.5	26865	5	RB_100%	QPSK	22.48
mid	831.5	26865	5	RB_100%	16QAM	21.28
mid	831.5	26865	5	RB_100%	64QAM	20.23

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	846.5	27015	5	RB_1_low	QPSK	23.20
high	846.5	27015	5	RB_1_low	16QAM	22.46
high	846.5	27015	5	RB_1_low	64QAM	21.82
high	846.5	27015	5	RB_1_mid	QPSK	23.22
high	846.5	27015	5	RB_1_mid	16QAM	22.51
high	846.5	27015	5	RB_1_mid	64QAM	21.86
high	846.5	27015	5	RB_1_high	QPSK	23.13
high	846.5	27015	5	RB_1_high	16QAM	22.49
high	846.5	27015	5	RB_1_high	64QAM	21.79
high	846.5	27015	5	RB_50%_low	QPSK	22.29
high	846.5	27015	5	RB_50%_low	16QAM	21.44
high	846.5	27015	5	RB_50%_low	64QAM	20.36
high	846.5	27015	5	RB_50%_mid	QPSK	22.31
high	846.5	27015	5	RB_50%_mid	16QAM	21.46
high	846.5	27015	5	RB_50%_mid	64QAM	20.39
high	846.5	27015	5	RB_50%_high	QPSK	22.28
high	846.5	27015	5	RB_50%_high	16QAM	21.42
high	846.5	27015	5	RB_50%_high	64QAM	20.36
high	846.5	27015	5	RB_100%	QPSK	22.25
high	846.5	27015	5	RB_100%	16QAM	21.13
high	846.5	27015	5	RB_100%	64QAM	20.28
low	819	26740	10	RB_1_low	QPSK	23.38
low	819	26740	10	RB_1_low	16QAM	22.41
low	819	26740	10	RB_1_low	64QAM	21.60
low	819	26740	10	RB_1_mid	QPSK	23.42
low	819	26740	10	RB_1_mid	16QAM	22.34
low	819	26740	10	RB_1_mid	64QAM	21.69
low	819	26740	10	RB_1_high	QPSK	23.34
low	819	26740	10	RB_1_high	16QAM	22.07
low	819	26740	10	RB_1_high	64QAM	21.71
low	819	26740	10	RB_50%_low	QPSK	22.42
low	819	26740	10	RB_50%_low	16QAM	21.43
low	819	26740	10	RB_50%_low	64QAM	20.45
low	819	26740	10	RB_50%_mid	QPSK	22.54
low	819	26740	10	RB_50%_mid	16QAM	21.49
low	819	26740	10	RB_50%_mid	64QAM	20.45
low	819	26740	10	RB_50%_high	QPSK	22.37
low	819	26740	10	RB_50%_high	16QAM	21.35
low	819	26740	10	RB_50%_high	64QAM	20.45
low	819	26740	10	RB_100%	QPSK	22.40
low	819	26740	10	RB_100%	16QAM	21.39
low	819	26740	10	RB_100%	64QAM	20.41

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	831.5	26865	10	RB_1_low	QPSK	23.34
mid	831.5	26865	10	RB_1_low	16QAM	22.40
mid	831.5	26865	10	RB_1_low	64QAM	21.54
mid	831.5	26865	10	RB_1_mid	QPSK	23.46
mid	831.5	26865	10	RB_1_mid	16QAM	22.33
mid	831.5	26865	10	RB_1_mid	64QAM	21.30
mid	831.5	26865	10	RB_1_high	QPSK	23.42
mid	831.5	26865	10	RB_1_high	16QAM	22.17
mid	831.5	26865	10	RB_1_high	64QAM	21.59
mid	831.5	26865	10	RB_50%_low	QPSK	22.47
mid	831.5	26865	10	RB_50%_low	16QAM	21.36
mid	831.5	26865	10	RB_50%_low	64QAM	20.42
mid	831.5	26865	10	RB_50%_mid	QPSK	22.41
mid	831.5	26865	10	RB_50%_mid	16QAM	21.42
mid	831.5	26865	10	RB_50%_mid	64QAM	20.28
mid	831.5	26865	10	RB_50%_high	QPSK	22.38
mid	831.5	26865	10	RB_50%_high	16QAM	21.44
mid	831.5	26865	10	RB_50%_high	64QAM	20.40
mid	831.5	26865	10	RB_100%	QPSK	22.35
mid	831.5	26865	10	RB_100%	16QAM	21.37
mid	831.5	26865	10	RB_100%	64QAM	20.29
high	844	26990	10	RB_1_low	QPSK	23.42
high	844	26990	10	RB_1_low	16QAM	22.42
high	844	26990	10	RB_1_low	64QAM	21.51
high	844	26990	10	RB_1_mid	QPSK	23.33
high	844	26990	10	RB_1_mid	16QAM	22.10
high	844	26990	10	RB_1_mid	64QAM	21.49
high	844	26990	10	RB_1_high	QPSK	23.30
high	844	26990	10	RB_1_high	16QAM	22.01
high	844	26990	10	RB_1_high	64QAM	21.41
high	844	26990	10	RB_50%_low	QPSK	22.35
high	844	26990	10	RB_50%_low	16QAM	21.31
high	844	26990	10	RB_50%_low	64QAM	20.34
high	844	26990	10	RB_50%_mid	QPSK	22.31
high	844	26990	10	RB_50%_mid	16QAM	21.28
high	844	26990	10	RB_50%_mid	64QAM	20.41
high	844	26990	10	RB_50%_high	QPSK	22.24
high	844	26990	10	RB_50%_high	16QAM	21.27
high	844	26990	10	RB_50%_high	64QAM	20.35
high	844	26990	10	RB_100%	QPSK	22.24
high	844	26990	10	RB_100%	16QAM	21.33
high	844	26990	10	RB_100%	64QAM	20.36

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	821.5	26765	15	RB_1_low	QPSK	23.27
low	821.5	26765	15	RB_1_low	16QAM	22.22
low	821.5	26765	15	RB_1_low	64QAM	22.13
low	821.5	26765	15	RB_1_mid	QPSK	23.29
low	821.5	26765	15	RB_1_mid	16QAM	22.23
low	821.5	26765	15	RB_1_mid	64QAM	21.94
low	**821.5**	**26765**	**15**	**RB_1_high**	**QPSK**	**23.31**
low	821.5	26765	15	RB_1_high	16QAM	22.20
low	821.5	26765	15	RB_1_high	64QAM	22.14
low	**821.5**	**26765**	**15**	**RB_50%_low**	**QPSK**	**22.41**
low	821.5	26765	15	RB_50%_low	16QAM	21.30
low	821.5	26765	15	RB_50%_low	64QAM	20.41
low	821.5	26765	15	RB_50%_mid	QPSK	22.39
low	821.5	26765	15	RB_50%_mid	16QAM	21.34
low	821.5	26765	15	RB_50%_mid	64QAM	20.45
low	821.5	26765	15	RB_50%_high	QPSK	22.28
low	821.5	26765	15	RB_50%_high	16QAM	21.37
low	821.5	26765	15	RB_50%_high	64QAM	20.33
low	821.5	26765	15	RB_100%	QPSK	22.42
low	821.5	26765	15	RB_100%	16QAM	21.45
low	821.5	26765	15	RB_100%	64QAM	20.56
mid	831.5	26865	15	RB_1_low	QPSK	23.17
mid	831.5	26865	15	RB_1_low	16QAM	22.16
mid	831.5	26865	15	RB_1_low	64QAM	21.42
mid	**831.5**	**26865**	**15**	**RB_1_mid**	**QPSK**	**23.21**
mid	831.5	26865	15	RB_1_mid	16QAM	22.20
mid	831.5	26865	15	RB_1_mid	64QAM	21.37
mid	831.5	26865	15	RB_1_high	QPSK	23.09
mid	831.5	26865	15	RB_1_high	16QAM	22.16
mid	831.5	26865	15	RB_1_high	64QAM	21.46
mid	831.5	26865	15	RB_50%_low	QPSK	22.34
mid	831.5	26865	15	RB_50%_low	16QAM	21.30
mid	831.5	26865	15	RB_50%_low	64QAM	20.40
mid	831.5	26865	15	RB_50%_mid	QPSK	22.32
mid	831.5	26865	15	RB_50%_mid	16QAM	21.37
mid	831.5	26865	15	RB_50%_mid	64QAM	20.41
mid	831.5	26865	15	RB_50%_high	QPSK	22.39
mid	831.5	26865	15	RB_50%_high	16QAM	21.34
mid	831.5	26865	15	RB_50%_high	64QAM	20.48
mid	831.5	26865	15	RB_100%	QPSK	22.22
mid	831.5	26865	15	RB_100%	16QAM	21.31
mid	831.5	26865	15	RB_100%	64QAM	20.35

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	841.5	26965	15	RB_1_low	QPSK	23.33
high	841.5	26965	15	RB_1_low	16QAM	22.20
high	841.5	26965	15	RB_1_low	64QAM	22.01
high	**841.5**	**26965**	**15**	**RB_1_mid**	**QPSK**	**23.38**
high	841.5	26965	15	RB_1_mid	16QAM	22.02
high	841.5	26965	15	RB_1_mid	64QAM	22.24
high	841.5	26965	15	RB_1_high	QPSK	23.10
high	841.5	26965	15	RB_1_high	16QAM	21.86
high	841.5	26965	15	RB_1_high	64QAM	22.07
high	841.5	26965	15	RB_50%_low	QPSK	22.32
high	841.5	26965	15	RB_50%_low	16QAM	21.36
high	841.5	26965	15	RB_50%_low	64QAM	20.46
high	841.5	26965	15	RB_50%_mid	QPSK	22.27
high	841.5	26965	15	RB_50%_mid	16QAM	21.35
high	841.5	26965	15	RB_50%_mid	64QAM	20.41
high	841.5	26965	15	RB_50%_high	QPSK	22.35
high	841.5	26965	15	RB_50%_high	16QAM	21.25
high	841.5	26965	15	RB_50%_high	64QAM	20.31
high	841.5	26965	15	RB_100%	QPSK	22.26
high	841.5	26965	15	RB_100%	16QAM	21.33
high	841.5	26965	15	RB_100%	64QAM	20.37

Table 25: Test results conducted power measurement LTE FDD 26 850 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2498.5	39675	5	RB_1_low	QPSK	22.89
low	2498.5	39675	5	RB_1_mid	QPSK	22.97
low	2498.5	39675	5	RB_1_high	QPSK	22.94
low	2498.5	39675	5	RB_50%_low	QPSK	21.85
low	2498.5	39675	5	RB_50%_mid	QPSK	21.82
low	2498.5	39675	5	RB_50%_high	QPSK	21.90
low	2498.5	39675	5	RB_100%	QPSK	21.78
mid	2593	40620	5	RB_1_low	QPSK	22.84
mid	2593	40620	5	RB_1_mid	QPSK	22.93
mid	2593	40620	5	RB_1_high	QPSK	22.97
mid	2593	40620	5	RB_50%_low	QPSK	21.92
mid	2593	40620	5	RB_50%_mid	QPSK	22.00
mid	2593	40620	5	RB_50%_high	QPSK	22.05
mid	2593	40620	5	RB_100%	QPSK	21.95
high	2687.5	41565	5	RB_1_low	QPSK	23.14
high	2687.5	41565	5	RB_1_mid	QPSK	**23.23**
high	2687.5	41565	5	RB_1_high	QPSK	23.21
high	2687.5	41565	5	RB_50%_low	QPSK	22.07
high	2687.5	41565	5	RB_50%_mid	QPSK	22.14
high	2687.5	41565	5	RB_50%_high	QPSK	22.10
high	2687.5	41565	5	RB_100%	QPSK	22.12
low	2501	39700	10	RB_1_low	QPSK	22.82
low	2501	39700	10	RB_1_mid	QPSK	22.78
low	2501	39700	10	RB_1_high	QPSK	22.79
low	2501	39700	10	RB_50%_low	QPSK	21.87
low	2501	39700	10	RB_50%_mid	QPSK	21.88
low	2501	39700	10	RB_50%_high	QPSK	21.80
low	2501	39700	10	RB_100%	QPSK	21.84
mid	2593	40620	10	RB_1_low	QPSK	22.92
mid	2593	40620	10	RB_1_mid	QPSK	22.76
mid	2593	40620	10	RB_1_high	QPSK	22.88
mid	2593	40620	10	RB_50%_low	QPSK	21.91
mid	2593	40620	10	RB_50%_mid	QPSK	22.03
mid	2593	40620	10	RB_50%_high	QPSK	21.92
mid	2593	40620	10	RB_100%	QPSK	21.94
high	2685	41540	10	RB_1_low	QPSK	23.07
high	2685	41540	10	RB_1_mid	QPSK	23.05
high	2685	41540	10	RB_1_high	QPSK	22.96
high	2685	41540	10	RB_50%_low	QPSK	22.06
high	2685	41540	10	RB_50%_mid	QPSK	22.17
high	2685	41540	10	RB_50%_high	QPSK	22.16
high	2685	41540	10	RB_100%	QPSK	22.15

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2503.5	39725	15	RB_1_low	QPSK	22.68
low	2503.5	39725	15	RB_1_mid	QPSK	22.75
low	2503.5	39725	15	RB_1_high	QPSK	22.80
low	2503.5	39725	15	RB_50%_low	QPSK	21.88
low	2503.5	39725	15	RB_50%_mid	QPSK	21.80
low	2503.5	39725	15	RB_50%_high	QPSK	21.77
low	2503.5	39725	15	RB_100%	QPSK	21.84
mid	2593	40620	15	RB_1_low	QPSK	22.74
mid	2593	40620	15	RB_1_mid	QPSK	22.78
mid	2593	40620	15	RB_1_high	QPSK	22.83
mid	2593	40620	15	RB_50%_low	QPSK	21.91
mid	2593	40620	15	RB_50%_mid	QPSK	21.92
mid	2593	40620	15	RB_50%_high	QPSK	21.88
mid	2593	40620	15	RB_100%	QPSK	21.89
high	2682.5	41515	15	RB_1_low	QPSK	22.68
high	2682.5	41515	15	RB_1_mid	QPSK	22.85
high	2682.5	41515	15	RB_1_high	QPSK	23.13
high	2682.5	41515	15	RB_50%_low	QPSK	22.04
high	2682.5	41515	15	RB_50%_mid	QPSK	22.03
high	2682.5	41515	15	RB_50%_high	QPSK	22.06
high	2682.5	41515	15	RB_100%	QPSK	22.06
low	2506	39750	20	RB_1_low	QPSK	22.75
low	**2506**	**39750**	**20**	**RB_1_mid**	**QPSK**	**22.92**
low	2506	39750	20	RB_1_high	QPSK	22.87
low	2506	39750	20	RB_50%_low	QPSK	21.90
low	2506	39750	20	RB_50%_mid	QPSK	21.78
low	2506	39750	20	RB_50%_high	QPSK	21.78
low	2506	39750	20	RB_100%	QPSK	21.81
mid	**2593**	**40620**	**20**	**RB_1_low**	**QPSK**	**23.00**
mid	2593	40620	20	RB_1_mid	QPSK	22.94
mid	2593	40620	20	RB_1_high	QPSK	22.96
mid	2593	40620	20	RB_50%_low	QPSK	21.87
mid	2593	40620	20	RB_50%_mid	QPSK	21.93
mid	2593	40620	20	RB_50%_high	QPSK	21.88
mid	2593	40620	20	RB_100%	QPSK	21.97
high	2680	41490	20	RB_1_low	QPSK	22.81
high	2680	41490	20	RB_1_mid	QPSK	23.16
high	**2680**	**41490**	**20**	**RB_1_high**	**QPSK**	**23.23**
high	**2680**	**41490**	**20**	**RB_50%_low**	**QPSK**	**21.97**
high	2680	41490	20	RB_50%_mid	QPSK	21.91
high	2680	41490	20	RB_50%_high	QPSK	21.90
high	2680	41490	20	RB_100%	QPSK	22.06

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2498.5	39675	5	RB_1_low	16QAM	21.69
low	2498.5	39675	5	RB_1_mid	16QAM	21.84
low	2498.5	39675	5	RB_1_high	16QAM	21.73
low	2498.5	39675	5	RB_50%_low	16QAM	20.71
low	2498.5	39675	5	RB_50%_mid	16QAM	20.77
low	2498.5	39675	5	RB_50%_high	16QAM	20.72
low	2498.5	39675	5	RB_100%	16QAM	20.73
mid	2593	40620	5	RB_1_low	16QAM	21.87
mid	2593	40620	5	RB_1_mid	16QAM	21.94
mid	2593	40620	5	RB_1_high	16QAM	21.90
mid	2593	40620	5	RB_50%_low	16QAM	20.85
mid	2593	40620	5	RB_50%_mid	16QAM	20.94
mid	2593	40620	5	RB_50%_high	16QAM	20.96
mid	2593	40620	5	RB_100%	16QAM	20.90
high	2687.5	41565	5	RB_1_low	16QAM	22.05
high	2687.5	41565	5	RB_1_mid	16QAM	22.09
high	2687.5	41565	5	RB_1_high	16QAM	22.08
high	2687.5	41565	5	RB_50%_low	16QAM	21.02
high	2687.5	41565	5	RB_50%_mid	16QAM	21.02
high	2687.5	41565	5	RB_50%_high	16QAM	21.07
high	2687.5	41565	5	RB_100%	16QAM	20.97
low	2501	39700	10	RB_1_low	16QAM	22.24
low	2501	39700	10	RB_1_mid	16QAM	22.33
low	2501	39700	10	RB_1_high	16QAM	22.15
low	2501	39700	10	RB_50%_low	16QAM	20.92
low	2501	39700	10	RB_50%_mid	16QAM	20.77
low	2501	39700	10	RB_50%_high	16QAM	20.88
low	2501	39700	10	RB_100%	16QAM	20.75
mid	2593	40620	10	RB_1_low	16QAM	22.46
mid	2593	40620	10	RB_1_mid	16QAM	22.39
mid	2593	40620	10	RB_1_high	16QAM	22.23
mid	2593	40620	10	RB_50%_low	16QAM	20.98
mid	2593	40620	10	RB_50%_mid	16QAM	21.05
mid	2593	40620	10	RB_50%_high	16QAM	20.99
mid	2593	40620	10	RB_100%	16QAM	20.98
high	2685	41540	10	RB_1_low	16QAM	22.22
high	2685	41540	10	RB_1_mid	16QAM	22.51
high	2685	41540	10	RB_1_high	16QAM	22.64
high	2685	41540	10	RB_50%_low	16QAM	21.04
high	2685	41540	10	RB_50%_mid	16QAM	21.16
high	2685	41540	10	RB_50%_high	16QAM	21.18
high	2685	41540	10	RB_100%	16QAM	21.03

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2503.5	39725	15	RB_1_low	16QAM	22.10
low	2503.5	39725	15	RB_1_mid	16QAM	21.91
low	2503.5	39725	15	RB_1_high	16QAM	22.17
low	2503.5	39725	15	RB_50%_low	16QAM	20.86
low	2503.5	39725	15	RB_50%_mid	16QAM	20.79
low	2503.5	39725	15	RB_50%_high	16QAM	20.87
low	2503.5	39725	15	RB_100%	16QAM	20.81
mid	2593	40620	15	RB_1_low	16QAM	22.48
mid	2593	40620	15	RB_1_mid	16QAM	22.15
mid	2593	40620	15	RB_1_high	16QAM	22.22
mid	2593	40620	15	RB_50%_low	16QAM	20.90
mid	2593	40620	15	RB_50%_mid	16QAM	20.96
mid	2593	40620	15	RB_50%_high	16QAM	20.86
mid	2593	40620	15	RB_100%	16QAM	20.94
high	2682.5	41515	15	RB_1_low	16QAM	22.13
high	2682.5	41515	15	RB_1_mid	16QAM	22.36
high	2682.5	41515	15	RB_1_high	16QAM	22.46
high	2682.5	41515	15	RB_50%_low	16QAM	21.06
high	2682.5	41515	15	RB_50%_mid	16QAM	21.14
high	2682.5	41515	15	RB_50%_high	16QAM	20.98
high	2682.5	41515	15	RB_100%	16QAM	21.06
low	2506	39750	20	RB_1_low	16QAM	22.00
low	2506	39750	20	RB_1_mid	16QAM	22.00
low	2506	39750	20	RB_1_high	16QAM	21.95
low	2506	39750	20	RB_50%_low	16QAM	20.86
low	2506	39750	20	RB_50%_mid	16QAM	20.79
low	2506	39750	20	RB_50%_high	16QAM	20.88
low	2506	39750	20	RB_100%	16QAM	20.88
mid	2593	40620	20	RB_1_low	16QAM	22.26
mid	2593	40620	20	RB_1_mid	16QAM	22.19
mid	2593	40620	20	RB_1_high	16QAM	22.20
mid	2593	40620	20	RB_50%_low	16QAM	20.89
mid	2593	40620	20	RB_50%_mid	16QAM	20.96
mid	2593	40620	20	RB_50%_high	16QAM	20.79
mid	2593	40620	20	RB_100%	16QAM	20.97
high	2680	41490	20	RB_1_low	16QAM	21.93
high	2680	41490	20	RB_1_mid	16QAM	22.25
high	2680	41490	20	RB_1_high	16QAM	22.33
high	2680	41490	20	RB_50%_low	16QAM	20.89
high	2680	41490	20	RB_50%_mid	16QAM	21.03
high	2680	41490	20	RB_50%_high	16QAM	21.04
high	2680	41490	20	RB_100%	16QAM	20.93

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2498.5	39675	5	RB_1_low	64QAM	20.34
low	2498.5	39675	5	RB_1_mid	64QAM	20.54
low	2498.5	39675	5	RB_1_high	64QAM	20.63
low	2498.5	39675	5	RB_50%_low	64QAM	19.68
low	2498.5	39675	5	RB_50%_mid	64QAM	19.71
low	2498.5	39675	5	RB_50%_high	64QAM	19.82
low	2498.5	39675	5	RB_100%	64QAM	19.44
mid	2593	40620	5	RB_1_low	64QAM	20.83
mid	2593	40620	5	RB_1_mid	64QAM	20.93
mid	2593	40620	5	RB_1_high	64QAM	20.84
mid	2593	40620	5	RB_50%_low	64QAM	20.00
mid	2593	40620	5	RB_50%_mid	64QAM	19.98
mid	2593	40620	5	RB_50%_high	64QAM	19.99
mid	2593	40620	5	RB_100%	64QAM	19.97
high	2687.5	41565	5	RB_1_low	64QAM	20.99
high	2687.5	41565	5	RB_1_mid	64QAM	21.00
high	2687.5	41565	5	RB_1_high	64QAM	20.88
high	2687.5	41565	5	RB_50%_low	64QAM	20.27
high	2687.5	41565	5	RB_50%_mid	64QAM	20.25
high	2687.5	41565	5	RB_50%_high	64QAM	20.20
high	2687.5	41565	5	RB_100%	64QAM	20.00
low	2501	39700	10	RB_1_low	64QAM	20.26
low	2501	39700	10	RB_1_mid	64QAM	20.48
low	2501	39700	10	RB_1_high	64QAM	20.60
low	2501	39700	10	RB_50%_low	64QAM	19.39
low	2501	39700	10	RB_50%_mid	64QAM	19.53
low	2501	39700	10	RB_50%_high	64QAM	19.57
low	2501	39700	10	RB_100%	64QAM	19.54
mid	2593	40620	10	RB_1_low	64QAM	20.76
mid	2593	40620	10	RB_1_mid	64QAM	20.76
mid	2593	40620	10	RB_1_high	64QAM	20.81
mid	2593	40620	10	RB_50%_low	64QAM	19.98
mid	2593	40620	10	RB_50%_mid	64QAM	20.01
mid	2593	40620	10	RB_50%_high	64QAM	20.01
mid	2593	40620	10	RB_100%	64QAM	19.95
high	2685	41540	10	RB_1_low	64QAM	21.19
high	2685	41540	10	RB_1_mid	64QAM	20.96
high	2685	41540	10	RB_1_high	64QAM	20.64
high	2685	41540	10	RB_50%_low	64QAM	19.88
high	2685	41540	10	RB_50%_mid	64QAM	20.08
high	2685	41540	10	RB_50%_high	64QAM	19.91
high	2685	41540	10	RB_100%	64QAM	20.04

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2503.5	39725	15	RB_1_low	64QAM	20.02
low	2503.5	39725	15	RB_1_mid	64QAM	20.21
low	2503.5	39725	15	RB_1_high	64QAM	20.45
low	2503.5	39725	15	RB_50%_low	64QAM	19.63
low	2503.5	39725	15	RB_50%_mid	64QAM	19.78
low	2503.5	39725	15	RB_50%_high	64QAM	19.80
low	2503.5	39725	15	RB_100%	64QAM	19.84
mid	2593	40620	15	RB_1_low	64QAM	20.71
mid	2593	40620	15	RB_1_mid	64QAM	20.56
mid	2593	40620	15	RB_1_high	64QAM	20.80
mid	2593	40620	15	RB_50%_low	64QAM	19.94
mid	2593	40620	15	RB_50%_mid	64QAM	20.00
mid	2593	40620	15	RB_50%_high	64QAM	19.93
mid	2593	40620	15	RB_100%	64QAM	19.93
high	2682.5	41515	15	RB_1_low	64QAM	20.74
high	2682.5	41515	15	RB_1_mid	64QAM	20.77
high	2682.5	41515	15	RB_1_high	64QAM	20.46
high	2682.5	41515	15	RB_50%_low	64QAM	19.98
high	2682.5	41515	15	RB_50%_mid	64QAM	20.12
high	2682.5	41515	15	RB_50%_high	64QAM	20.01
high	2682.5	41515	15	RB_100%	64QAM	20.12
low	2506	39750	20	RB_1_low	64QAM	20.50
low	2506	39750	20	RB_1_mid	64QAM	20.70
low	2506	39750	20	RB_1_high	64QAM	21.17
low	2506	39750	20	RB_50%_low	64QAM	19.77
low	2506	39750	20	RB_50%_mid	64QAM	19.88
low	2506	39750	20	RB_50%_high	64QAM	19.82
low	2506	39750	20	RB_100%	64QAM	19.75
mid	2593	40620	20	RB_1_low	64QAM	21.84
mid	2593	40620	20	RB_1_mid	64QAM	21.69
mid	2593	40620	20	RB_1_high	64QAM	21.60
mid	2593	40620	20	RB_50%_low	64QAM	20.02
mid	2593	40620	20	RB_50%_mid	64QAM	19.99
mid	2593	40620	20	RB_50%_high	64QAM	19.94
mid	2593	40620	20	RB_100%	64QAM	20.01
high	2680	41490	20	RB_1_low	64QAM	21.59
high	2680	41490	20	RB_1_mid	64QAM	21.38
high	2680	41490	20	RB_1_high	64QAM	20.43
high	2680	41490	20	RB_50%_low	64QAM	19.92
high	2680	41490	20	RB_50%_mid	64QAM	19.99
high	2680	41490	20	RB_50%_high	64QAM	20.03
high	2680	41490	20	RB_100%	64QAM	20.08

Table 26: Test results conducted power measurement LTE TDD 41 2600 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1710.7	131979	1.4	RB_1_low	QPSK	23.25
low	1710.7	131979	1.4	RB_1_low	16QAM	22.13
low	1710.7	131979	1.4	RB_1_low	64QAM	21.22
low	1710.7	131979	1.4	RB_1_mid	QPSK	23.33
low	1710.7	131979	1.4	RB_1_mid	16QAM	22.32
low	1710.7	131979	1.4	RB_1_mid	64QAM	21.48
low	1710.7	131979	1.4	RB_1_high	QPSK	23.31
low	1710.7	131979	1.4	RB_1_high	16QAM	22.21
low	1710.7	131979	1.4	RB_1_high	64QAM	21.34
low	1710.7	131979	1.4	RB_50%_low	QPSK	23.22
low	1710.7	131979	1.4	RB_50%_low	16QAM	22.60
low	1710.7	131979	1.4	RB_50%_low	64QAM	21.48
low	1710.7	131979	1.4	RB_50%_mid	QPSK	23.27
low	1710.7	131979	1.4	RB_50%_mid	16QAM	22.66
low	1710.7	131979	1.4	RB_50%_mid	64QAM	21.54
low	1710.7	131979	1.4	RB_50%_high	QPSK	23.23
low	1710.7	131979	1.4	RB_50%_high	16QAM	22.63
low	1710.7	131979	1.4	RB_50%_high	64QAM	21.49
low	1710.7	131979	1.4	RB_100%	QPSK	22.38
low	1710.7	131979	1.4	RB_100%	16QAM	21.41
low	1710.7	131979	1.4	RB_100%	64QAM	20.74
mid	1745	132322	1.4	RB_1_low	QPSK	23.41
mid	1745	132322	1.4	RB_1_low	16QAM	22.32
mid	1745	132322	1.4	RB_1_low	64QAM	21.59
mid	1745	132322	1.4	RB_1_mid	QPSK	23.41
mid	1745	132322	1.4	RB_1_mid	16QAM	22.33
mid	1745	132322	1.4	RB_1_mid	64QAM	21.67
mid	1745	132322	1.4	RB_1_high	QPSK	23.35
mid	1745	132322	1.4	RB_1_high	16QAM	22.32
mid	1745	132322	1.4	RB_1_high	64QAM	21.67
mid	1745	132322	1.4	RB_50%_low	QPSK	23.23
mid	1745	132322	1.4	RB_50%_low	16QAM	22.71
mid	1745	132322	1.4	RB_50%_low	64QAM	21.39
mid	1745	132322	1.4	RB_50%_mid	QPSK	23.29
mid	1745	132322	1.4	RB_50%_mid	16QAM	22.77
mid	1745	132322	1.4	RB_50%_mid	64QAM	21.44
mid	1745	132322	1.4	RB_50%_high	QPSK	23.21
mid	1745	132322	1.4	RB_50%_high	16QAM	22.75
mid	1745	132322	1.4	RB_50%_high	64QAM	21.45
mid	1745	132322	1.4	RB_100%	QPSK	22.40
mid	1745	132322	1.4	RB_100%	16QAM	21.57
mid	1745	132322	1.4	RB_100%	64QAM	20.67

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	1779.3	132665	1.4	RB_1_low	QPSK	23.52
high	1779.3	132665	1.4	RB_1_low	16QAM	22.45
high	1779.3	132665	1.4	RB_1_low	64QAM	21.62
high	1779.3	132665	1.4	RB_1_mid	QPSK	23.59
high	1779.3	132665	1.4	RB_1_mid	16QAM	23.10
high	1779.3	132665	1.4	RB_1_mid	64QAM	22.23
high	1779.3	132665	1.4	RB_1_high	QPSK	23.47
high	1779.3	132665	1.4	RB_1_high	16QAM	22.93
high	1779.3	132665	1.4	RB_1_high	64QAM	21.89
high	1779.3	132665	1.4	RB_50%_low	QPSK	23.32
high	1779.3	132665	1.4	RB_50%_low	16QAM	22.73
high	1779.3	132665	1.4	RB_50%_low	64QAM	21.64
high	1779.3	132665	1.4	RB_50%_mid	QPSK	23.45
high	1779.3	132665	1.4	RB_50%_mid	16QAM	22.68
high	1779.3	132665	1.4	RB_50%_mid	64QAM	21.61
high	1779.3	132665	1.4	RB_50%_high	QPSK	23.45
high	1779.3	132665	1.4	RB_50%_high	16QAM	22.76
high	1779.3	132665	1.4	RB_50%_high	64QAM	21.63
high	1779.3	132665	1.4	RB_100%	QPSK	22.51
high	1779.3	132665	1.4	RB_100%	16QAM	21.46
high	1779.3	132665	1.4	RB_100%	64QAM	20.50
low	1711.5	131987	3	RB_1_low	QPSK	23.33
low	1711.5	131987	3	RB_1_low	16QAM	22.16
low	1711.5	131987	3	RB_1_low	64QAM	21.70
low	1711.5	131987	3	RB_1_mid	QPSK	23.38
low	1711.5	131987	3	RB_1_mid	16QAM	22.13
low	1711.5	131987	3	RB_1_mid	64QAM	21.51
low	1711.5	131987	3	RB_1_high	QPSK	23.28
low	1711.5	131987	3	RB_1_high	16QAM	22.21
low	1711.5	131987	3	RB_1_high	64QAM	21.65
low	1711.5	131987	3	RB_50%_low	QPSK	22.36
low	1711.5	131987	3	RB_50%_low	16QAM	21.45
low	1711.5	131987	3	RB_50%_low	64QAM	20.70
low	1711.5	131987	3	RB_50%_mid	QPSK	22.41
low	1711.5	131987	3	RB_50%_mid	16QAM	21.43
low	1711.5	131987	3	RB_50%_mid	64QAM	20.63
low	1711.5	131987	3	RB_50%_high	QPSK	22.38
low	1711.5	131987	3	RB_50%_high	16QAM	21.46
low	1711.5	131987	3	RB_50%_high	64QAM	20.65
low	1711.5	131987	3	RB_100%	QPSK	22.38
low	1711.5	131987	3	RB_100%	16QAM	21.41
low	1711.5	131987	3	RB_100%	64QAM	20.47

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1745	132322	3	RB_1_low	QPSK	23.42
mid	1745	132322	3	RB_1_low	16QAM	22.30
mid	1745	132322	3	RB_1_low	64QAM	21.69
mid	1745	132322	3	RB_1_mid	QPSK	23.39
mid	1745	132322	3	RB_1_mid	16QAM	22.19
mid	1745	132322	3	RB_1_mid	64QAM	21.67
mid	1745	132322	3	RB_1_high	QPSK	23.42
mid	1745	132322	3	RB_1_high	16QAM	22.28
mid	1745	132322	3	RB_1_high	64QAM	21.58
mid	1745	132322	3	RB_50%_low	QPSK	22.48
mid	1745	132322	3	RB_50%_low	16QAM	21.53
mid	1745	132322	3	RB_50%_low	64QAM	20.59
mid	1745	132322	3	RB_50%_mid	QPSK	22.47
mid	1745	132322	3	RB_50%_mid	16QAM	21.51
mid	1745	132322	3	RB_50%_mid	64QAM	20.54
mid	1745	132322	3	RB_50%_high	QPSK	22.54
mid	1745	132322	3	RB_50%_high	16QAM	21.52
mid	1745	132322	3	RB_50%_high	64QAM	20.57
mid	1745	132322	3	RB_100%	QPSK	22.38
mid	1745	132322	3	RB_100%	16QAM	21.49
mid	1745	132322	3	RB_100%	64QAM	20.35
high	1778.5	132657	3	RB_1_low	QPSK	23.62
high	1778.5	132657	3	RB_1_low	16QAM	22.35
high	1778.5	132657	3	RB_1_low	64QAM	21.88
high	1778.5	132657	3	RB_1_mid	QPSK	23.64
high	1778.5	132657	3	RB_1_mid	16QAM	22.39
high	1778.5	132657	3	RB_1_mid	64QAM	21.88
high	1778.5	132657	3	RB_1_high	QPSK	23.67
high	1778.5	132657	3	RB_1_high	16QAM	22.40
high	1778.5	132657	3	RB_1_high	64QAM	21.97
high	1778.5	132657	3	RB_50%_low	QPSK	22.53
high	1778.5	132657	3	RB_50%_low	16QAM	21.66
high	1778.5	132657	3	RB_50%_low	64QAM	20.88
high	1778.5	132657	3	RB_50%_mid	QPSK	22.65
high	1778.5	132657	3	RB_50%_mid	16QAM	21.67
high	1778.5	132657	3	RB_50%_mid	64QAM	20.96
high	1778.5	132657	3	RB_50%_high	QPSK	22.61
high	1778.5	132657	3	RB_50%_high	16QAM	21.68
high	1778.5	132657	3	RB_50%_high	64QAM	20.88
high	1778.5	132657	3	RB_100%	QPSK	22.65
high	1778.5	132657	3	RB_100%	16QAM	21.68
high	1778.5	132657	3	RB_100%	64QAM	20.67

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1712.5	131997	5	RB_1_low	QPSK	23.21
low	1712.5	131997	5	RB_1_low	16QAM	22.45
low	1712.5	131997	5	RB_1_low	64QAM	21.79
low	1712.5	131997	5	RB_1_mid	QPSK	23.24
low	1712.5	131997	5	RB_1_mid	16QAM	22.52
low	1712.5	131997	5	RB_1_mid	64QAM	22.06
low	1712.5	131997	5	RB_1_high	QPSK	23.21
low	1712.5	131997	5	RB_1_high	16QAM	22.58
low	1712.5	131997	5	RB_1_high	64QAM	21.90
low	1712.5	131997	5	RB_50%_low	QPSK	22.33
low	1712.5	131997	5	RB_50%_low	16QAM	21.52
low	1712.5	131997	5	RB_50%_low	64QAM	20.41
low	1712.5	131997	5	RB_50%_mid	QPSK	22.38
low	1712.5	131997	5	RB_50%_mid	16QAM	21.50
low	1712.5	131997	5	RB_50%_mid	64QAM	20.49
low	1712.5	131997	5	RB_50%_high	QPSK	22.43
low	1712.5	131997	5	RB_50%_high	16QAM	21.52
low	1712.5	131997	5	RB_50%_high	64QAM	20.47
low	1712.5	131997	5	RB_100%	QPSK	22.36
low	1712.5	131997	5	RB_100%	16QAM	21.34
low	1712.5	131997	5	RB_100%	64QAM	20.35
mid	1745	132322	5	RB_1_low	QPSK	23.36
mid	1745	132322	5	RB_1_low	16QAM	22.54
mid	1745	132322	5	RB_1_low	64QAM	21.05
mid	1745	132322	5	RB_1_mid	QPSK	23.48
mid	1745	132322	5	RB_1_mid	16QAM	22.68
mid	1745	132322	5	RB_1_mid	64QAM	21.09
mid	1745	132322	5	RB_1_high	QPSK	23.41
mid	1745	132322	5	RB_1_high	16QAM	22.71
mid	1745	132322	5	RB_1_high	64QAM	21.01
mid	1745	132322	5	RB_50%_low	QPSK	22.44
mid	1745	132322	5	RB_50%_low	16QAM	21.50
mid	1745	132322	5	RB_50%_low	64QAM	20.40
mid	1745	132322	5	RB_50%_mid	QPSK	22.39
mid	1745	132322	5	RB_50%_mid	16QAM	21.54
mid	1745	132322	5	RB_50%_mid	64QAM	20.44
mid	1745	132322	5	RB_50%_high	QPSK	22.47
mid	1745	132322	5	RB_50%_high	16QAM	21.52
mid	1745	132322	5	RB_50%_high	64QAM	20.41
mid	1745	132322	5	RB_100%	QPSK	22.36
mid	1745	132322	5	RB_100%	16QAM	21.29
mid	1745	132322	5	RB_100%	64QAM	20.49

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	1777.5	132647	5	RB_1_low	QPSK	23.41
high	1777.5	132647	5	RB_1_low	16QAM	22.66
high	1777.5	132647	5	RB_1_low	64QAM	22.07
high	1777.5	132647	5	RB_1_mid	QPSK	23.48
high	1777.5	132647	5	RB_1_mid	16QAM	22.88
high	1777.5	132647	5	RB_1_mid	64QAM	22.39
high	1777.5	132647	5	RB_1_high	QPSK	23.51
high	1777.5	132647	5	RB_1_high	16QAM	22.80
high	1777.5	132647	5	RB_1_high	64QAM	22.13
high	1777.5	132647	5	RB_50%_low	QPSK	22.64
high	1777.5	132647	5	RB_50%_low	16QAM	21.70
high	1777.5	132647	5	RB_50%_low	64QAM	20.67
high	1777.5	132647	5	RB_50%_mid	QPSK	22.60
high	1777.5	132647	5	RB_50%_mid	16QAM	21.71
high	1777.5	132647	5	RB_50%_mid	64QAM	20.69
high	1777.5	132647	5	RB_50%_high	QPSK	22.58
high	1777.5	132647	5	RB_50%_high	16QAM	21.70
high	1777.5	132647	5	RB_50%_high	64QAM	20.72
high	1777.5	132647	5	RB_100%	QPSK	22.62
high	1777.5	132647	5	RB_100%	16QAM	21.47
high	1777.5	132647	5	RB_100%	64QAM	20.54
low	1715	132022	10	RB_1_low	QPSK	23.45
low	1715	132022	10	RB_1_low	16QAM	22.26
low	1715	132022	10	RB_1_low	64QAM	21.52
low	1715	132022	10	RB_1_mid	QPSK	23.38
low	1715	132022	10	RB_1_mid	16QAM	22.11
low	1715	132022	10	RB_1_mid	64QAM	21.70
low	1715	132022	10	RB_1_high	QPSK	23.38
low	1715	132022	10	RB_1_high	16QAM	21.97
low	1715	132022	10	RB_1_high	64QAM	21.46
low	1715	132022	10	RB_50%_low	QPSK	22.34
low	1715	132022	10	RB_50%_low	16QAM	21.39
low	1715	132022	10	RB_50%_low	64QAM	20.38
low	1715	132022	10	RB_50%_mid	QPSK	22.38
low	1715	132022	10	RB_50%_mid	16QAM	21.40
low	1715	132022	10	RB_50%_mid	64QAM	20.47
low	1715	132022	10	RB_50%_high	QPSK	22.40
low	1715	132022	10	RB_50%_high	16QAM	21.47
low	1715	132022	10	RB_50%_high	64QAM	20.42
low	1715	132022	10	RB_100%	QPSK	22.38
low	1715	132022	10	RB_100%	16QAM	21.35
low	1715	132022	10	RB_100%	64QAM	20.41

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1745	132322	10	RB_1_low	QPSK	23.65
mid	1745	132322	10	RB_1_low	16QAM	22.32
mid	1745	132322	10	RB_1_low	64QAM	21.77
mid	1745	132322	10	RB_1_mid	QPSK	23.45
mid	1745	132322	10	RB_1_mid	16QAM	22.34
mid	1745	132322	10	RB_1_mid	64QAM	21.81
mid	1745	132322	10	RB_1_high	QPSK	23.50
mid	1745	132322	10	RB_1_high	16QAM	22.15
mid	1745	132322	10	RB_1_high	64QAM	21.60
mid	1745	132322	10	RB_50%_low	QPSK	22.42
mid	1745	132322	10	RB_50%_low	16QAM	21.54
mid	1745	132322	10	RB_50%_low	64QAM	20.38
mid	1745	132322	10	RB_50%_mid	QPSK	22.46
mid	1745	132322	10	RB_50%_mid	16QAM	21.51
mid	1745	132322	10	RB_50%_mid	64QAM	20.33
mid	1745	132322	10	RB_50%_high	QPSK	22.43
mid	1745	132322	10	RB_50%_high	16QAM	21.48
mid	1745	132322	10	RB_50%_high	64QAM	20.49
mid	1745	132322	10	RB_100%	QPSK	22.47
mid	1745	132322	10	RB_100%	16QAM	21.34
mid	1745	132322	10	RB_100%	64QAM	20.43
high	1775	132622	10	RB_1_low	QPSK	23.69
high	1775	132622	10	RB_1_low	16QAM	22.31
high	1775	132622	10	RB_1_low	64QAM	21.80
high	1775	132622	10	RB_1_mid	QPSK	23.68
high	1775	132622	10	RB_1_mid	16QAM	22.30
high	1775	132622	10	RB_1_mid	64QAM	22.00
high	1775	132622	10	RB_1_high	QPSK	23.71
high	1775	132622	10	RB_1_high	16QAM	22.31
high	1775	132622	10	RB_1_high	64QAM	21.63
high	1775	132622	10	RB_50%_low	QPSK	22.59
high	1775	132622	10	RB_50%_low	16QAM	21.66
high	1775	132622	10	RB_50%_low	64QAM	20.70
high	1775	132622	10	RB_50%_mid	QPSK	22.68
high	1775	132622	10	RB_50%_mid	16QAM	21.70
high	1775	132622	10	RB_50%_mid	64QAM	20.75
high	1775	132622	10	RB_50%_high	QPSK	22.66
high	1775	132622	10	RB_50%_high	16QAM	21.58
high	1775	132622	10	RB_50%_high	64QAM	20.63
high	1775	132622	10	RB_100%	QPSK	22.68
high	1775	132622	10	RB_100%	16QAM	21.68
high	1775	132622	10	RB_100%	64QAM	20.67

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1717.5	132047	15	RB_1_low	QPSK	23.42
low	1717.5	132047	15	RB_1_low	16QAM	22.10
low	1717.5	132047	15	RB_1_low	64QAM	22.22
low	1717.5	132047	15	RB_1_mid	QPSK	23.51
low	1717.5	132047	15	RB_1_mid	16QAM	22.15
low	1717.5	132047	15	RB_1_mid	64QAM	22.41
low	1717.5	132047	15	RB_1_high	QPSK	23.51
low	1717.5	132047	15	RB_1_high	16QAM	22.09
low	1717.5	132047	15	RB_1_high	64QAM	22.31
low	1717.5	132047	15	RB_50%_low	QPSK	22.37
low	1717.5	132047	15	RB_50%_low	16QAM	21.41
low	1717.5	132047	15	RB_50%_low	64QAM	20.39
low	1717.5	132047	15	RB_50%_mid	QPSK	22.43
low	1717.5	132047	15	RB_50%_mid	16QAM	21.40
low	1717.5	132047	15	RB_50%_mid	64QAM	20.47
low	1717.5	132047	15	RB_50%_high	QPSK	22.43
low	1717.5	132047	15	RB_50%_high	16QAM	21.46
low	1717.5	132047	15	RB_50%_high	64QAM	20.47
low	1717.5	132047	15	RB_100%	QPSK	22.37
low	1717.5	132047	15	RB_100%	16QAM	21.44
low	1717.5	132047	15	RB_100%	64QAM	20.50
mid	1745	132322	15	RB_1_low	QPSK	23.47
mid	1745	132322	15	RB_1_low	16QAM	22.15
mid	1745	132322	15	RB_1_low	64QAM	21.62
mid	1745	132322	15	RB_1_mid	QPSK	23.43
mid	1745	132322	15	RB_1_mid	16QAM	22.33
mid	1745	132322	15	RB_1_mid	64QAM	21.60
mid	1745	132322	15	RB_1_high	QPSK	23.38
mid	1745	132322	15	RB_1_high	16QAM	22.29
mid	1745	132322	15	RB_1_high	64QAM	21.44
mid	1745	132322	15	RB_50%_low	QPSK	22.49
mid	1745	132322	15	RB_50%_low	16QAM	21.51
mid	1745	132322	15	RB_50%_low	64QAM	20.54
mid	1745	132322	15	RB_50%_mid	QPSK	22.46
mid	1745	132322	15	RB_50%_mid	16QAM	21.48
mid	1745	132322	15	RB_50%_mid	64QAM	20.52
mid	1745	132322	15	RB_50%_high	QPSK	22.55
mid	1745	132322	15	RB_50%_high	16QAM	21.50
mid	1745	132322	15	RB_50%_high	64QAM	20.64
mid	1745	132322	15	RB_100%	QPSK	22.46
mid	1745	132322	15	RB_100%	16QAM	21.38
mid	1745	132322	15	RB_100%	64QAM	20.52

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	1772.5	132597	15	RB_1_low	QPSK	23.66
high	1772.5	132597	15	RB_1_low	16QAM	22.51
high	1772.5	132597	15	RB_1_low	64QAM	22.52
high	1772.5	132597	15	RB_1_mid	QPSK	**23.74**
high	1772.5	132597	15	RB_1_mid	16QAM	22.49
high	1772.5	132597	15	RB_1_mid	64QAM	22.51
high	1772.5	132597	15	RB_1_high	QPSK	23.62
high	1772.5	132597	15	RB_1_high	16QAM	22.39
high	1772.5	132597	15	RB_1_high	64QAM	22.52
high	1772.5	132597	15	RB_50%_low	QPSK	22.57
high	1772.5	132597	15	RB_50%_low	16QAM	21.58
high	1772.5	132597	15	RB_50%_low	64QAM	20.67
high	1772.5	132597	15	RB_50%_mid	QPSK	22.59
high	1772.5	132597	15	RB_50%_mid	16QAM	21.61
high	1772.5	132597	15	RB_50%_mid	64QAM	20.65
high	1772.5	132597	15	RB_50%_high	QPSK	22.72
high	1772.5	132597	15	RB_50%_high	16QAM	21.74
high	1772.5	132597	15	RB_50%_high	64QAM	20.69
high	1772.5	132597	15	RB_100%	QPSK	22.48
high	1772.5	132597	15	RB_100%	16QAM	21.61
high	1772.5	132597	15	RB_100%	64QAM	20.61
low	1720	132072	20	RB_1_low	QPSK	23.19
low	1720	132072	20	RB_1_low	16QAM	22.93
low	1720	132072	20	RB_1_low	64QAM	21.76
low	**1720**	**132072**	**20**	**RB_1_mid**	**QPSK**	**23.22**
low	1720	132072	20	RB_1_mid	16QAM	22.95
low	1720	132072	20	RB_1_mid	64QAM	21.71
low	1720	132072	20	RB_1_high	QPSK	23.16
low	1720	132072	20	RB_1_high	16QAM	23.06
low	1720	132072	20	RB_1_high	64QAM	21.25
low	1720	132072	20	RB_50%_low	QPSK	22.26
low	1720	132072	20	RB_50%_low	16QAM	21.40
low	1720	132072	20	RB_50%_low	64QAM	20.40
low	1720	132072	20	RB_50%_mid	QPSK	22.47
low	1720	132072	20	RB_50%_mid	16QAM	21.46
low	1720	132072	20	RB_50%_mid	64QAM	20.43
low	1720	132072	20	RB_50%_high	QPSK	22.41
low	1720	132072	20	RB_50%_high	16QAM	21.44
low	1720	132072	20	RB_50%_high	64QAM	20.47
low	1720	132072	20	RB_100%	QPSK	22.47
low	1720	132072	20	RB_100%	16QAM	21.50
low	1720	132072	20	RB_100%	64QAM	20.44

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	**1745**	**132322**	**20**	**RB_1_low**	**QPSK**	**23.43**
mid	1745	132322	20	RB_1_low	16QAM	23.16
mid	1745	132322	20	RB_1_low	64QAM	22.08
mid	1745	132322	20	RB_1_mid	QPSK	23.24
mid	1745	132322	20	RB_1_mid	16QAM	23.09
mid	1745	132322	20	RB_1_mid	64QAM	22.01
mid	1745	132322	20	RB_1_high	QPSK	23.30
mid	1745	132322	20	RB_1_high	16QAM	23.04
mid	1745	132322	20	RB_1_high	64QAM	22.05
mid	1745	132322	20	RB_50%_low	QPSK	22.58
mid	1745	132322	20	RB_50%_low	16QAM	21.52
mid	1745	132322	20	RB_50%_low	64QAM	20.60
mid	1745	132322	20	RB_50%_mid	QPSK	22.49
mid	1745	132322	20	RB_50%_mid	16QAM	21.49
mid	1745	132322	20	RB_50%_mid	64QAM	20.57
mid	1745	132322	20	RB_50%_high	QPSK	22.50
mid	1745	132322	20	RB_50%_high	16QAM	21.57
mid	1745	132322	20	RB_50%_high	64QAM	20.65
mid	1745	132322	20	RB_100%	QPSK	22.39
mid	1745	132322	20	RB_100%	16QAM	21.47
mid	1745	132322	20	RB_100%	64QAM	20.43
high	1770	132572	20	RB_1_low	QPSK	23.24
high	1770	132572	20	RB_1_low	16QAM	22.92
high	1770	132572	20	RB_1_low	64QAM	22.00
high	**1770**	**132572**	**20**	**RB_1_mid**	**QPSK**	**23.41**
high	1770	132572	20	RB_1_mid	16QAM	23.03
high	1770	132572	20	RB_1_mid	64QAM	22.08
high	1770	132572	20	RB_1_high	QPSK	23.38
high	1770	132572	20	RB_1_high	16QAM	23.12
high	1770	132572	20	RB_1_high	64QAM	21.87
high	1770	132572	20	RB_50%_low	QPSK	22.53
high	1770	132572	20	RB_50%_low	16QAM	21.61
high	1770	132572	20	RB_50%_low	64QAM	20.60
high	**1770**	**132572**	**20**	**RB_50%_mid**	**QPSK**	**22.66**
high	1770	132572	20	RB_50%_mid	16QAM	21.72
high	1770	132572	20	RB_50%_mid	64QAM	20.78
high	1770	132572	20	RB_50%_high	QPSK	22.59
high	1770	132572	20	RB_50%_high	16QAM	21.67
high	1770	132572	20	RB_50%_high	64QAM	20.77
high	1770	132572	20	RB_100%	QPSK	22.66
high	1770	132572	20	RB_100%	16QAM	21.72
high	1770	132572	20	RB_100%	64QAM	20.67

Table 27: Test results conducted power measurement LTE FDD 66 1750 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	665.5	133147	5	RB_1_low	QPSK	22.71
low	665.5	133147	5	RB_1_low	16QAM	21.90
low	665.5	133147	5	RB_1_low	64QAM	21.23
low	665.5	133147	5	RB_1_mid	QPSK	22.56
low	665.5	133147	5	RB_1_mid	16QAM	21.94
low	665.5	133147	5	RB_1_mid	64QAM	21.26
low	665.5	133147	5	RB_1_high	QPSK	22.60
low	665.5	133147	5	RB_1_high	16QAM	21.87
low	665.5	133147	5	RB_1_high	64QAM	21.20
low	665.5	133147	5	RB_50%_low	QPSK	21.73
low	665.5	133147	5	RB_50%_low	16QAM	20.95
low	665.5	133147	5	RB_50%_low	64QAM	19.77
low	665.5	133147	5	RB_50%_mid	QPSK	21.78
low	665.5	133147	5	RB_50%_mid	16QAM	20.90
low	665.5	133147	5	RB_50%_mid	64QAM	19.84
low	665.5	133147	5	RB_50%_high	QPSK	21.65
low	665.5	133147	5	RB_50%_high	16QAM	20.80
low	665.5	133147	5	RB_50%_high	64QAM	19.75
low	665.5	133147	5	RB_100%	QPSK	21.74
low	665.5	133147	5	RB_100%	16QAM	20.61
low	665.5	133147	5	RB_100%	64QAM	19.77
mid	680.5	133297	5	RB_1_low	QPSK	22.67
mid	680.5	133297	5	RB_1_low	16QAM	21.80
mid	680.5	133297	5	RB_1_low	64QAM	20.17
mid	680.5	133297	5	RB_1_mid	QPSK	22.61
mid	680.5	133297	5	RB_1_mid	16QAM	21.76
mid	680.5	133297	5	RB_1_mid	64QAM	20.24
mid	680.5	133297	5	RB_1_high	QPSK	22.59
mid	680.5	133297	5	RB_1_high	16QAM	21.75
mid	680.5	133297	5	RB_1_high	64QAM	20.14
mid	680.5	133297	5	RB_50%_low	QPSK	21.70
mid	680.5	133297	5	RB_50%_low	16QAM	20.82
mid	680.5	133297	5	RB_50%_low	64QAM	19.60
mid	680.5	133297	5	RB_50%_mid	QPSK	21.63
mid	680.5	133297	5	RB_50%_mid	16QAM	20.75
mid	680.5	133297	5	RB_50%_mid	64QAM	19.64
mid	680.5	133297	5	RB_50%_high	QPSK	21.61
mid	680.5	133297	5	RB_50%_high	16QAM	20.71
mid	680.5	133297	5	RB_50%_high	64QAM	19.54
mid	680.5	133297	5	RB_100%	QPSK	21.65
mid	680.5	133297	5	RB_100%	16QAM	20.54
mid	680.5	133297	5	RB_100%	64QAM	19.70

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	695.5	133447	5	RB_1_low	QPSK	22.61
high	695.5	133447	5	RB_1_low	16QAM	21.89
high	695.5	133447	5	RB_1_low	64QAM	21.19
high	695.5	133447	5	RB_1_mid	QPSK	22.49
high	695.5	133447	5	RB_1_mid	16QAM	21.89
high	695.5	133447	5	RB_1_mid	64QAM	21.31
high	695.5	133447	5	RB_1_high	QPSK	22.54
high	695.5	133447	5	RB_1_high	16QAM	21.70
high	695.5	133447	5	RB_1_high	64QAM	21.12
high	695.5	133447	5	RB_50%_low	QPSK	21.65
high	695.5	133447	5	RB_50%_low	16QAM	20.77
high	695.5	133447	5	RB_50%_low	64QAM	19.75
high	695.5	133447	5	RB_50%_mid	QPSK	21.68
high	695.5	133447	5	RB_50%_mid	16QAM	20.78
high	695.5	133447	5	RB_50%_mid	64QAM	19.70
high	695.5	133447	5	RB_50%_high	QPSK	21.64
high	695.5	133447	5	RB_50%_high	16QAM	20.79
high	695.5	133447	5	RB_50%_high	64QAM	19.73
high	695.5	133447	5	RB_100%	QPSK	21.68
high	695.5	133447	5	RB_100%	16QAM	20.57
high	695.5	133447	5	RB_100%	64QAM	19.65
low	668	133172	10	RB_1_low	QPSK	22.81
low	668	133172	10	RB_1_low	16QAM	21.85
low	668	133172	10	RB_1_low	64QAM	21.14
low	668	133172	10	RB_1_mid	QPSK	22.63
low	668	133172	10	RB_1_mid	16QAM	21.37
low	668	133172	10	RB_1_mid	64QAM	20.86
low	668	133172	10	RB_1_high	QPSK	22.69
low	668	133172	10	RB_1_high	16QAM	21.28
low	668	133172	10	RB_1_high	64QAM	20.65
low	668	133172	10	RB_50%_low	QPSK	21.75
low	668	133172	10	RB_50%_low	16QAM	20.72
low	668	133172	10	RB_50%_low	64QAM	19.73
low	668	133172	10	RB_50%_mid	QPSK	21.77
low	668	133172	10	RB_50%_mid	16QAM	20.78
low	668	133172	10	RB_50%_mid	64QAM	19.80
low	668	133172	10	RB_50%_high	QPSK	21.76
low	668	133172	10	RB_50%_high	16QAM	20.77
low	668	133172	10	RB_50%_high	64QAM	19.73
low	668	133172	10	RB_100%	QPSK	21.80
low	668	133172	10	RB_100%	16QAM	20.61
low	668	133172	10	RB_100%	64QAM	19.84

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	680.5	133297	10	RB_1_low	QPSK	**22.89**
mid	680.5	133297	10	RB_1_low	16QAM	21.76
mid	680.5	133297	10	RB_1_low	64QAM	20.77
mid	680.5	133297	10	RB_1_mid	QPSK	22.60
mid	680.5	133297	10	RB_1_mid	16QAM	21.39
mid	680.5	133297	10	RB_1_mid	64QAM	20.74
mid	680.5	133297	10	RB_1_high	QPSK	22.53
mid	680.5	133297	10	RB_1_high	16QAM	21.30
mid	680.5	133297	10	RB_1_high	64QAM	20.75
mid	680.5	133297	10	RB_50%_low	QPSK	21.61
mid	680.5	133297	10	RB_50%_low	16QAM	20.68
mid	680.5	133297	10	RB_50%_low	64QAM	19.63
mid	680.5	133297	10	RB_50%_mid	QPSK	21.60
mid	680.5	133297	10	RB_50%_mid	16QAM	20.54
mid	680.5	133297	10	RB_50%_mid	64QAM	19.65
mid	680.5	133297	10	RB_50%_high	QPSK	21.58
mid	680.5	133297	10	RB_50%_high	16QAM	20.62
mid	680.5	133297	10	RB_50%_high	64QAM	19.67
mid	680.5	133297	10	RB_100%	QPSK	21.67
mid	680.5	133297	10	RB_100%	16QAM	20.57
mid	680.5	133297	10	RB_100%	64QAM	19.62
high	693	133422	10	RB_1_low	QPSK	22.69
high	693	133422	10	RB_1_low	16QAM	21.56
high	693	133422	10	RB_1_low	64QAM	21.16
high	693	133422	10	RB_1_mid	QPSK	22.73
high	693	133422	10	RB_1_mid	16QAM	21.78
high	693	133422	10	RB_1_mid	64QAM	20.71
high	693	133422	10	RB_1_high	QPSK	22.74
high	693	133422	10	RB_1_high	16QAM	21.46
high	693	133422	10	RB_1_high	64QAM	20.66
high	693	133422	10	RB_50%_low	QPSK	21.53
high	693	133422	10	RB_50%_low	16QAM	20.64
high	693	133422	10	RB_50%_low	64QAM	19.68
high	693	133422	10	RB_50%_mid	QPSK	21.71
high	693	133422	10	RB_50%_mid	16QAM	20.68
high	693	133422	10	RB_50%_mid	64QAM	19.71
high	693	133422	10	RB_50%_high	QPSK	21.70
high	693	133422	10	RB_50%_high	16QAM	20.63
high	693	133422	10	RB_50%_high	64QAM	19.84
high	693	133422	10	RB_100%	QPSK	21.69
high	693	133422	10	RB_100%	16QAM	20.68
high	693	133422	10	RB_100%	64QAM	19.73

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	670.5	133197	15	RB_1_low	QPSK	22.82
low	670.5	133197	15	RB_1_low	16QAM	21.50
low	670.5	133197	15	RB_1_low	64QAM	21.61
low	670.5	133197	15	RB_1_mid	QPSK	22.70
low	670.5	133197	15	RB_1_mid	16QAM	21.31
low	670.5	133197	15	RB_1_mid	64QAM	21.79
low	670.5	133197	15	RB_1_high	QPSK	22.82
low	670.5	133197	15	RB_1_high	16QAM	21.43
low	670.5	133197	15	RB_1_high	64QAM	21.49
low	670.5	133197	15	RB_50%_low	QPSK	21.79
low	670.5	133197	15	RB_50%_low	16QAM	20.61
low	670.5	133197	15	RB_50%_low	64QAM	19.73
low	670.5	133197	15	RB_50%_mid	QPSK	21.73
low	670.5	133197	15	RB_50%_mid	16QAM	20.77
low	670.5	133197	15	RB_50%_mid	64QAM	19.79
low	670.5	133197	15	RB_50%_high	QPSK	21.66
low	670.5	133197	15	RB_50%_high	16QAM	20.67
low	670.5	133197	15	RB_50%_high	64QAM	19.58
low	670.5	133197	15	RB_100%	QPSK	21.71
low	670.5	133197	15	RB_100%	16QAM	20.76
low	670.5	133197	15	RB_100%	64QAM	19.81
mid	680.5	133297	15	RB_1_low	QPSK	22.72
mid	680.5	133297	15	RB_1_low	16QAM	21.48
mid	680.5	133297	15	RB_1_low	64QAM	20.85
mid	680.5	133297	15	RB_1_mid	QPSK	22.56
mid	680.5	133297	15	RB_1_mid	16QAM	21.42
mid	680.5	133297	15	RB_1_mid	64QAM	20.66
mid	680.5	133297	15	RB_1_high	QPSK	22.53
mid	680.5	133297	15	RB_1_high	16QAM	21.31
mid	680.5	133297	15	RB_1_high	64QAM	20.63
mid	680.5	133297	15	RB_50%_low	QPSK	21.75
mid	680.5	133297	15	RB_50%_low	16QAM	20.72
mid	680.5	133297	15	RB_50%_low	64QAM	19.75
mid	680.5	133297	15	RB_50%_mid	QPSK	21.56
mid	680.5	133297	15	RB_50%_mid	16QAM	20.64
mid	680.5	133297	15	RB_50%_mid	64QAM	19.66
mid	680.5	133297	15	RB_50%_high	QPSK	21.54
mid	680.5	133297	15	RB_50%_high	16QAM	20.54
mid	680.5	133297	15	RB_50%_high	64QAM	19.71
mid	680.5	133297	15	RB_100%	QPSK	21.56
mid	680.5	133297	15	RB_100%	16QAM	20.58
mid	680.5	133297	15	RB_100%	64QAM	19.57

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	690.5	133397	15	RB_1_low	QPSK	22.62
high	690.5	133397	15	RB_1_low	16QAM	21.55
high	690.5	133397	15	RB_1_low	64QAM	21.59
high	690.5	133397	15	RB_1_mid	QPSK	22.71
high	690.5	133397	15	RB_1_mid	16QAM	21.55
high	690.5	133397	15	RB_1_mid	64QAM	21.50
high	690.5	133397	15	RB_1_high	QPSK	22.86
high	690.5	133397	15	RB_1_high	16QAM	21.41
high	690.5	133397	15	RB_1_high	64QAM	21.47
high	690.5	133397	15	RB_50%_low	QPSK	21.70
high	690.5	133397	15	RB_50%_low	16QAM	20.61
high	690.5	133397	15	RB_50%_low	64QAM	19.68
high	690.5	133397	15	RB_50%_mid	QPSK	21.60
high	690.5	133397	15	RB_50%_mid	16QAM	20.67
high	690.5	133397	15	RB_50%_mid	64QAM	19.61
high	690.5	133397	15	RB_50%_high	QPSK	21.67
high	690.5	133397	15	RB_50%_high	16QAM	20.57
high	690.5	133397	15	RB_50%_high	64QAM	19.67
high	690.5	133397	15	RB_100%	QPSK	21.60
high	690.5	133397	15	RB_100%	16QAM	20.61
high	690.5	133397	15	RB_100%	64QAM	19.69
low	**673**	**133222**	**20**	**RB_1_low**	**QPSK**	**22.60**
low	673	133222	20	RB_1_low	16QAM	22.37
low	673	133222	20	RB_1_low	64QAM	21.22
low	673	133222	20	RB_1_mid	QPSK	22.59
low	673	133222	20	RB_1_mid	16QAM	22.09
low	673	133222	20	RB_1_mid	64QAM	21.27
low	673	133222	20	RB_1_high	QPSK	22.28
low	673	133222	20	RB_1_high	16QAM	21.98
low	673	133222	20	RB_1_high	64QAM	21.06
low	673	133222	20	RB_50%_low	QPSK	21.68
low	673	133222	20	RB_50%_low	16QAM	20.83
low	673	133222	20	RB_50%_low	64QAM	19.80
low	**673**	**133222**	**20**	**RB_50%_mid**	**QPSK**	**21.75**
low	673	133222	20	RB_50%_mid	16QAM	20.76
low	673	133222	20	RB_50%_mid	64QAM	19.75
low	673	133222	20	RB_50%_high	QPSK	21.60
low	673	133222	20	RB_50%_high	16QAM	20.70
low	673	133222	20	RB_50%_high	64QAM	19.74
low	673	133222	20	RB_100%	QPSK	21.81
low	673	133222	20	RB_100%	16QAM	20.83
low	673	133222	20	RB_100%	64QAM	19.85

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	**680.5**	**133297**	**20**	**RB_1_low**	**QPSK**	**22.72**
mid	680.5	133297	20	RB_1_low	16QAM	22.23
mid	680.5	133297	20	RB_1_low	64QAM	21.16
mid	680.5	133297	20	RB_1_mid	QPSK	22.45
mid	680.5	133297	20	RB_1_mid	16QAM	22.07
mid	680.5	133297	20	RB_1_mid	64QAM	21.05
mid	680.5	133297	20	RB_1_high	QPSK	22.43
mid	680.5	133297	20	RB_1_high	16QAM	21.88
mid	680.5	133297	20	RB_1_high	64QAM	20.99
mid	680.5	133297	20	RB_50%_low	QPSK	21.69
mid	680.5	133297	20	RB_50%_low	16QAM	20.71
mid	680.5	133297	20	RB_50%_low	64QAM	19.86
mid	680.5	133297	20	RB_50%_mid	QPSK	21.66
mid	680.5	133297	20	RB_50%_mid	16QAM	20.67
mid	680.5	133297	20	RB_50%_mid	64QAM	19.70
mid	680.5	133297	20	RB_50%_high	QPSK	21.66
mid	680.5	133297	20	RB_50%_high	16QAM	20.55
mid	680.5	133297	20	RB_50%_high	64QAM	19.61
mid	680.5	133297	20	RB_100%	QPSK	21.60
mid	680.5	133297	20	RB_100%	16QAM	20.71
mid	680.5	133297	20	RB_100%	64QAM	19.67
high	**688**	**133372**	**20**	**RB_1_low**	**QPSK**	**22.44**
high	688	133372	20	RB_1_low	16QAM	22.10
high	688	133372	20	RB_1_low	64QAM	21.29
high	688	133372	20	RB_1_mid	QPSK	22.31
high	688	133372	20	RB_1_mid	16QAM	22.01
high	688	133372	20	RB_1_mid	64QAM	21.19
high	688	133372	20	RB_1_high	QPSK	22.31
high	688	133372	20	RB_1_high	16QAM	21.91
high	688	133372	20	RB_1_high	64QAM	21.00
high	688	133372	20	RB_50%_low	QPSK	21.70
high	688	133372	20	RB_50%_low	16QAM	20.70
high	688	133372	20	RB_50%_low	64QAM	19.70
high	688	133372	20	RB_50%_mid	QPSK	21.67
high	688	133372	20	RB_50%_mid	16QAM	20.69
high	688	133372	20	RB_50%_mid	64QAM	19.73
high	688	133372	20	RB_50%_high	QPSK	21.69
high	688	133372	20	RB_50%_high	16QAM	20.68
high	688	133372	20	RB_50%_high	64QAM	19.69
high	688	133372	20	RB_100%	QPSK	21.65
high	688	133372	20	RB_100%	16QAM	20.73
high	688	133372	20	RB_100%	64QAM	19.59

Table 28: Test results conducted power measurement LTE FDD 71 600 MHz.

8.1.6 Justification of SAR measurements in LTE mode

According to Chapter 5 'SAR test procedures for LTE devices of FCC KDB Publication 941225 D05 the following test configurations for standalone measurements of the largest channel bandwidth (chapter 5.2) had to be taken into consideration:

5.2.1. QPSK with 1 RB allocation
Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and *required test channel* combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each *required test channel*. When the *reported* SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and *required test channels* is not required for 1 RB allocation; otherwise, SAR is required for the remaining *required test channels* and only for the RB offset configuration with the highest output power for that channel.6 When the *reported* SAR of a *required test channel* is > 1.45 W/kg, SAR is required for all three RB offset configurations for that *required test channel*.

5.2.2. QPSK with 50% RB allocation
The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.

5.2.3. QPSK with 100% RB allocation
For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest *reported* SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the *reported* SAR is > 1.45 W/kg, the remaining *required test channels* must also be tested.

5.2.4. Higher order modulations
For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 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 > ½ dB higher than the same configuration in QPSK or when the *reported* SAR for the QPSK configuration is > 1.45 W/kg.

Testing of other channel bandwidths was not necessary because the output power of equivalent channel configurations was less than ½ dB larger compared to the largest channel bandwidth and reported SAR was < 1.45 W/kg.

Conducted and radiated measurements were performed with the maximum number of bundled TTIs supported by the DUT (see section 2.4 for details).

8.1.7 MPR information in LTE mode

There is a permanently applied MPR implemented by the manufacturer.
MPR is enabled for this device according to 3GPP TS36.101.

Modulation	Channel bandwidth / resource block configuration						Target MPR	3 GPP MPR
	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz		
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1	≤ 1
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1	≤ 1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2	≤ 2

Therefore there is no power reduction at 1.4 MHz bandwidth with 50% RB allocation (3 RBs).

Additional differences in conducted power are not caused by implemented MPR but depend on measurement uncertainty and allowable tolerances per 3GPP or tune-up.
A-MPR was disabled for all SAR tests.

8.1.8 Conducted power measurements 5G NR

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1852.5	370500	5	RB_1_low	BPSK	22.51
low	1852.5	370500	5	RB_1_low	QPSK	22.06
low	1852.5	370500	5	RB_1_low	16QAM	21.31
low	1852.5	370500	5	RB_1_low	64QAM	20.49
low	1852.5	370500	5	RB_1_low	256QAM	18.62
low	1852.5	370500	5	RB_1_low+1	BPSK	22.99
low	1852.5	370500	5	RB_1_low+1	QPSK	23.11
low	1852.5	370500	5	RB_1_low+1	16QAM	22.02
low	1852.5	370500	5	RB_1_low+1	64QAM	20.43
low	1852.5	370500	5	RB_1_low+1	256QAM	18.60
low	1852.5	370500	5	RB_1_high-1	BPSK	23.01
low	1852.5	370500	5	RB_1_high-1	QPSK	23.13
low	1852.5	370500	5	RB_1_high-1	16QAM	22.13
low	1852.5	370500	5	RB_1_high-1	64QAM	20.79
low	1852.5	370500	5	RB_1_high-1	256QAM	18.41
low	1852.5	370500	5	RB_1_high	BPSK	22.46
low	1852.5	370500	5	RB_1_high	QPSK	22.06
low	1852.5	370500	5	RB_1_high	16QAM	21.19
low	1852.5	370500	5	RB_1_high	64QAM	20.52
low	1852.5	370500	5	RB_1_high	256QAM	18.44
low	1852.5	370500	5	RB_50%_mid	BPSK	23.06
low	1852.5	370500	5	RB_50%_mid	QPSK	23.07
low	1852.5	370500	5	RB_50%_mid	16QAM	22.15
low	1852.5	370500	5	RB_50%_mid	64QAM	20.67
low	1852.5	370500	5	RB_50%_mid	256QAM	18.68
low	1852.5	370500	5	RB_100%	BPSK	22.49
low	1852.5	370500	5	RB_100%	QPSK	22.12
low	1852.5	370500	5	RB_100%	16QAM	21.09
low	1852.5	370500	5	RB_100%	64QAM	20.60
low	1852.5	370500	5	RB_100%	256QAM	18.57
mid	1880	376000	5	RB_1_low	BPSK	22.41
mid	1880	376000	5	RB_1_low	QPSK	21.96
mid	1880	376000	5	RB_1_low	16QAM	21.18
mid	1880	376000	5	RB_1_low	64QAM	20.55
mid	1880	376000	5	RB_1_low	256QAM	18.70
mid	1880	376000	5	RB_1_low+1	BPSK	22.89
mid	1880	376000	5	RB_1_low+1	QPSK	23.00
mid	1880	376000	5	RB_1_low+1	16QAM	21.96
mid	1880	376000	5	RB_1_low+1	64QAM	20.80
mid	1880	376000	5	RB_1_low+1	256QAM	18.67

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1880	376000	5	RB_1_high-1	BPSK	22.97
mid	1880	376000	5	RB_1_high-1	QPSK	22.98
mid	1880	376000	5	RB_1_high-1	16QAM	22.18
mid	1880	376000	5	RB_1_high-1	64QAM	20.79
mid	1880	376000	5	RB_1_high-1	256QAM	18.73
mid	1880	376000	5	RB_1_high	BPSK	22.39
mid	1880	376000	5	RB_1_high	QPSK	21.90
mid	1880	376000	5	RB_1_high	16QAM	21.08
mid	1880	376000	5	RB_1_high	64QAM	20.49
mid	1880	376000	5	RB_1_high	256QAM	18.58
mid	1880	376000	5	RB_50%_mid	BPSK	23.01
mid	1880	376000	5	RB_50%_mid	QPSK	23.17
mid	1880	376000	5	RB_50%_mid	16QAM	22.08
mid	1880	376000	5	RB_50%_mid	64QAM	20.57
mid	1880	376000	5	RB_50%_mid	256QAM	18.65
mid	1880	376000	5	RB_100%	BPSK	22.63
mid	1880	376000	5	RB_100%	QPSK	22.01
mid	1880	376000	5	RB_100%	16QAM	21.04
mid	1880	376000	5	RB_100%	64QAM	20.53
mid	1880	376000	5	RB_100%	256QAM	18.51
high	1907.5	381500	5	RB_1_low	BPSK	22.22
high	1907.5	381500	5	RB_1_low	QPSK	21.80
high	1907.5	381500	5	RB_1_low	16QAM	20.80
high	1907.5	381500	5	RB_1_low	64QAM	20.69
high	1907.5	381500	5	RB_1_low	256QAM	18.46
high	1907.5	381500	5	RB_1_low+1	BPSK	22.69
high	1907.5	381500	5	RB_1_low+1	QPSK	22.57
high	1907.5	381500	5	RB_1_low+1	16QAM	21.91
high	1907.5	381500	5	RB_1_low+1	64QAM	20.30
high	1907.5	381500	5	RB_1_low+1	256QAM	18.37
high	1907.5	381500	5	RB_1_high-1	BPSK	22.77
high	1907.5	381500	5	RB_1_high-1	QPSK	22.96
high	1907.5	381500	5	RB_1_high-1	16QAM	21.58
high	1907.5	381500	5	RB_1_high-1	64QAM	20.23
high	1907.5	381500	5	RB_1_high-1	256QAM	18.45
high	1907.5	381500	5	RB_1_high	BPSK	22.19
high	1907.5	381500	5	RB_1_high	QPSK	21.78
high	1907.5	381500	5	RB_1_high	16QAM	20.69
high	1907.5	381500	5	RB_1_high	64QAM	20.37
high	1907.5	381500	5	RB_1_high	256QAM	18.63
high	1907.5	381500	5	RB_50%_mid	BPSK	22.88
high	1907.5	381500	5	RB_50%_mid	QPSK	22.85
high	1907.5	381500	5	RB_50%_mid	16QAM	21.70
high	1907.5	381500	5	RB_50%_mid	64QAM	20.30
high	1907.5	381500	5	RB_50%_mid	256QAM	18.37

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	1907.5	381500	5	RB_100%	BPSK	22.28
high	1907.5	381500	5	RB_100%	QPSK	21.84
high	1907.5	381500	5	RB_100%	16QAM	20.79
high	1907.5	381500	5	RB_100%	64QAM	19.91
high	1907.5	381500	5	RB_100%	256QAM	18.33
low	1855	371000	10	RB_1_low	BPSK	22.63
low	1855	371000	10	RB_1_low	QPSK	22.05
low	1855	371000	10	RB_1_low	16QAM	21.22
low	1855	371000	10	RB_1_low	64QAM	20.65
low	1855	371000	10	RB_1_low	256QAM	18.70
low	1855	371000	10	RB_1_low+1	BPSK	22.96
low	1855	371000	10	RB_1_low+1	QPSK	23.24
low	1855	371000	10	RB_1_low+1	16QAM	22.11
low	1855	371000	10	RB_1_low+1	64QAM	20.84
low	1855	371000	10	RB_1_low+1	256QAM	18.87
low	1855	371000	10	RB_1_high-1	BPSK	22.93
low	1855	371000	10	RB_1_high-1	QPSK	23.04
low	1855	371000	10	RB_1_high-1	16QAM	22.32
low	1855	371000	10	RB_1_high-1	64QAM	20.67
low	1855	371000	10	RB_1_high-1	256QAM	18.77
low	1855	371000	10	RB_1_high	BPSK	22.94
low	1855	371000	10	RB_1_high	QPSK	23.04
low	1855	371000	10	RB_1_high	16QAM	22.01
low	1855	371000	10	RB_1_high	64QAM	20.90
low	1855	371000	10	RB_1_high	256QAM	18.52
low	1855	371000	10	RB_50%_mid	BPSK	23.19
low	1855	371000	10	RB_50%_mid	QPSK	23.14
low	1855	371000	10	RB_50%_mid	16QAM	22.23
low	1855	371000	10	RB_50%_mid	64QAM	20.65
low	1855	371000	10	RB_50%_mid	256QAM	18.71
low	1855	371000	10	RB_100%	BPSK	22.72
low	1855	371000	10	RB_100%	QPSK	22.12
low	1855	371000	10	RB_100%	16QAM	21.10
low	1855	371000	10	RB_100%	64QAM	20.78
low	1855	371000	10	RB_100%	256QAM	18.72
mid	1880	376000	10	RB_1_low	BPSK	22.54
mid	1880	376000	10	RB_1_low	QPSK	22.16
mid	1880	376000	10	RB_1_low	16QAM	21.14
mid	1880	376000	10	RB_1_low	64QAM	20.92
mid	1880	376000	10	RB_1_low	256QAM	18.82
mid	1880	376000	10	RB_1_low+1	BPSK	22.98
mid	1880	376000	10	RB_1_low+1	QPSK	23.08
mid	1880	376000	10	RB_1_low+1	16QAM	21.90
mid	1880	376000	10	RB_1_low+1	64QAM	20.93
mid	1880	376000	10	RB_1_low+1	256QAM	18.72

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1880	376000	10	RB_1_high-1	BPSK	22.98
mid	1880	376000	10	RB_1_high-1	QPSK	22.99
mid	1880	376000	10	RB_1_high-1	16QAM	22.00
mid	1880	376000	10	RB_1_high-1	64QAM	20.53
mid	1880	376000	10	RB_1_high-1	256QAM	18.54
mid	1880	376000	10	RB_1_high	BPSK	22.90
mid	1880	376000	10	RB_1_high	QPSK	23.01
mid	1880	376000	10	RB_1_high	16QAM	22.03
mid	1880	376000	10	RB_1_high	64QAM	20.69
mid	1880	376000	10	RB_1_high	256QAM	18.66
mid	1880	376000	10	RB_50%_mid	BPSK	23.04
mid	1880	376000	10	RB_50%_mid	QPSK	23.07
mid	1880	376000	10	RB_50%_mid	16QAM	22.05
mid	1880	376000	10	RB_50%_mid	64QAM	20.55
mid	1880	376000	10	RB_50%_mid	256QAM	18.61
mid	1880	376000	10	RB_100%	BPSK	22.58
mid	1880	376000	10	RB_100%	QPSK	22.11
mid	1880	376000	10	RB_100%	16QAM	21.08
mid	1880	376000	10	RB_100%	64QAM	20.58
mid	1880	376000	10	RB_100%	256QAM	18.66
high	1905	381000	10	RB_1_low	BPSK	22.37
high	1905	381000	10	RB_1_low	QPSK	21.95
high	1905	381000	10	RB_1_low	16QAM	21.01
high	1905	381000	10	RB_1_low	64QAM	20.72
high	1905	381000	10	RB_1_low	256QAM	18.88
high	1905	381000	10	RB_1_low+1	BPSK	22.98
high	1905	381000	10	RB_1_low+1	QPSK	22.94
high	1905	381000	10	RB_1_low+1	16QAM	22.11
high	1905	381000	10	RB_1_low+1	64QAM	20.63
high	1905	381000	10	RB_1_low+1	256QAM	18.44
high	1905	381000	10	RB_1_high-1	BPSK	22.73
high	1905	381000	10	RB_1_high-1	QPSK	22.82
high	1905	381000	10	RB_1_high-1	16QAM	22.18
high	1905	381000	10	RB_1_high-1	64QAM	20.69
high	1905	381000	10	RB_1_high-1	256QAM	18.48
high	1905	381000	10	RB_1_high	BPSK	22.73
high	1905	381000	10	RB_1_high	QPSK	22.95
high	1905	381000	10	RB_1_high	16QAM	22.04
high	1905	381000	10	RB_1_high	64QAM	20.55
high	1905	381000	10	RB_1_high	256QAM	18.70
high	1905	381000	10	RB_50%_mid	BPSK	22.92
high	1905	381000	10	RB_50%_mid	QPSK	22.93
high	1905	381000	10	RB_50%_mid	16QAM	21.94
high	1905	381000	10	RB_50%_mid	64QAM	20.44
high	1905	381000	10	RB_50%_mid	256QAM	18.44

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	1905	381000	10	RB_100%	BPSK	22.44
high	1905	381000	10	RB_100%	QPSK	21.95
high	1905	381000	10	RB_100%	16QAM	21.01
high	1905	381000	10	RB_100%	64QAM	20.46
high	1905	381000	10	RB_100%	256QAM	18.38
low	1857.5	371500	15	RB_1_low	BPSK	22.61
low	1857.5	371500	15	RB_1_low	QPSK	22.34
low	1857.5	371500	15	RB_1_low	16QAM	21.47
low	1857.5	371500	15	RB_1_low	64QAM	20.69
low	1857.5	371500	15	RB_1_low	256QAM	18.80
low	1857.5	371500	15	RB_1_low+1	BPSK	23.05
low	1857.5	371500	15	RB_1_low+1	QPSK	23.25
low	1857.5	371500	15	RB_1_low+1	16QAM	22.21
low	1857.5	371500	15	RB_1_low+1	64QAM	20.91
low	1857.5	371500	15	RB_1_low+1	256QAM	18.74
low	1857.5	371500	15	RB_1_high-1	BPSK	22.94
low	1857.5	371500	15	RB_1_high-1	QPSK	23.15
low	1857.5	371500	15	RB_1_high-1	16QAM	22.18
low	1857.5	371500	15	RB_1_high-1	64QAM	20.75
low	1857.5	371500	15	RB_1_high-1	256QAM	18.92
low	1857.5	371500	15	RB_1_high	BPSK	23.07
low	1857.5	371500	15	RB_1_high	QPSK	23.21
low	1857.5	371500	15	RB_1_high	16QAM	22.40
low	1857.5	371500	15	RB_1_high	64QAM	20.73
low	1857.5	371500	15	RB_1_high	256QAM	18.94
low	1857.5	371500	15	RB_50%_mid	BPSK	23.10
low	1857.5	371500	15	RB_50%_mid	QPSK	23.18
low	1857.5	371500	15	RB_50%_mid	16QAM	22.16
low	1857.5	371500	15	RB_50%_mid	64QAM	20.80
low	1857.5	371500	15	RB_50%_mid	256QAM	18.82
low	1857.5	371500	15	RB_100%	BPSK	22.62
low	1857.5	371500	15	RB_100%	QPSK	22.21
low	1857.5	371500	15	RB_100%	16QAM	21.25
low	1857.5	371500	15	RB_100%	64QAM	20.65
low	1857.5	371500	15	RB_100%	256QAM	18.65
mid	1880	376000	15	RB_1_low	BPSK	22.59
mid	1880	376000	15	RB_1_low	QPSK	22.24
mid	1880	376000	15	RB_1_low	16QAM	21.15
mid	1880	376000	15	RB_1_low	64QAM	20.77
mid	1880	376000	15	RB_1_low	256QAM	18.80
mid	1880	376000	15	RB_1_low+1	BPSK	23.08
mid	1880	376000	15	RB_1_low+1	QPSK	23.22
mid	1880	376000	15	RB_1_low+1	16QAM	22.26
mid	1880	376000	15	RB_1_low+1	64QAM	20.74
mid	1880	376000	15	RB_1_low+1	256QAM	18.75

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1880	376000	15	RB_1_high-1	BPSK	22.89
mid	1880	376000	15	RB_1_high-1	QPSK	23.13
mid	1880	376000	15	RB_1_high-1	16QAM	22.20
mid	1880	376000	15	RB_1_high-1	64QAM	20.58
mid	1880	376000	15	RB_1_high-1	256QAM	18.67
mid	1880	376000	15	RB_1_high	BPSK	22.98
mid	1880	376000	15	RB_1_high	QPSK	22.91
mid	1880	376000	15	RB_1_high	16QAM	22.03
mid	1880	376000	15	RB_1_high	64QAM	20.99
mid	1880	376000	15	RB_1_high	256QAM	18.82
mid	1880	376000	15	RB_50%_mid	BPSK	22.98
mid	1880	376000	15	RB_50%_mid	QPSK	23.35
mid	1880	376000	15	RB_50%_mid	16QAM	22.39
mid	1880	376000	15	RB_50%_mid	64QAM	20.98
mid	1880	376000	15	RB_50%_mid	256QAM	18.86
mid	1880	376000	15	RB_100%	BPSK	22.61
mid	1880	376000	15	RB_100%	QPSK	22.15
mid	1880	376000	15	RB_100%	16QAM	21.10
mid	1880	376000	15	RB_100%	64QAM	20.64
mid	1880	376000	15	RB_100%	256QAM	18.58
high	1902.5	380500	15	RB_1_low	BPSK	22.73
high	1902.5	380500	15	RB_1_low	QPSK	22.24
high	1902.5	380500	15	RB_1_low	16QAM	21.33
high	1902.5	380500	15	RB_1_low	64QAM	21.09
high	1902.5	380500	15	RB_1_low	256QAM	18.89
high	1902.5	380500	15	RB_1_low+1	BPSK	23.04
high	1902.5	380500	15	RB_1_low+1	QPSK	23.25
high	1902.5	380500	15	RB_1_low+1	16QAM	22.26
high	1902.5	380500	15	RB_1_low+1	64QAM	20.83
high	1902.5	380500	15	RB_1_low+1	256QAM	18.78
high	1902.5	380500	15	RB_1_high-1	BPSK	22.87
high	1902.5	380500	15	RB_1_high-1	QPSK	22.90
high	1902.5	380500	15	RB_1_high-1	16QAM	21.98
high	1902.5	380500	15	RB_1_high-1	64QAM	20.90
high	1902.5	380500	15	RB_1_high-1	256QAM	18.58
high	1902.5	380500	15	RB_1_high	BPSK	22.84
high	1902.5	380500	15	RB_1_high	QPSK	22.73
high	1902.5	380500	15	RB_1_high	16QAM	22.14
high	1902.5	380500	15	RB_1_high	64QAM	20.71
high	1902.5	380500	15	RB_1_high	256QAM	18.59
high	1902.5	380500	15	RB_50%_mid	BPSK	23.10
high	1902.5	380500	15	RB_50%_mid	QPSK	23.32
high	1902.5	380500	15	RB_50%_mid	16QAM	22.23
high	1902.5	380500	15	RB_50%_mid	64QAM	20.83
high	1902.5	380500	15	RB_50%_mid	256QAM	18.97

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	1902.5	380500	15	RB_100%	BPSK	22.55
high	1902.5	380500	15	RB_100%	QPSK	22.14
high	1902.5	380500	15	RB_100%	16QAM	21.10
high	1902.5	380500	15	RB_100%	64QAM	20.62
high	1902.5	380500	15	RB_100%	256QAM	18.59
low	1860	372000	20	RB_1_low	BPSK	22.65
low	1860	372000	20	RB_1_low	QPSK	22.20
low	1860	372000	20	RB_1_low	16QAM	21.40
low	1860	372000	20	RB_1_low	64QAM	21.11
low	1860	372000	20	RB_1_low	256QAM	18.95
low	1860	372000	20	RB_1_low+1	BPSK	23.19
low	1860	372000	20	RB_1_low+1	QPSK	23.18
low	1860	372000	20	RB_1_low+1	16QAM	22.11
low	1860	372000	20	RB_1_low+1	64QAM	20.86
low	1860	372000	20	RB_1_low+1	256QAM	18.86
low	1860	372000	20	RB_1_high-1	BPSK	23.01
low	**1860**	**372000**	**20**	**RB_1_high-1**	**QPSK**	**23.30**
low	1860	372000	20	RB_1_high-1	16QAM	22.43
low	1860	372000	20	RB_1_high-1	64QAM	20.58
low	1860	372000	20	RB_1_high-1	256QAM	19.02
low	1860	372000	20	RB_1_high	BPSK	23.06
low	1860	372000	20	RB_1_high	QPSK	23.16
low	1860	372000	20	RB_1_high	16QAM	22.56
low	1860	372000	20	RB_1_high	64QAM	20.60
low	1860	372000	20	RB_1_high	256QAM	18.67
low	1860	372000	20	RB_50%_mid	BPSK	23.12
low	1860	372000	20	RB_50%_mid	QPSK	23.14
low	1860	372000	20	RB_50%_mid	16QAM	22.17
low	1860	372000	20	RB_50%_mid	64QAM	20.74
low	1860	372000	20	RB_50%_mid	256QAM	18.66
low	1860	372000	20	RB_100%	BPSK	22.70
low	1860	372000	20	RB_100%	QPSK	22.17
low	1860	372000	20	RB_100%	16QAM	21.17
low	1860	372000	20	RB_100%	64QAM	20.68
low	1860	372000	20	RB_100%	256QAM	18.73
mid	1880	376000	20	RB_1_low	BPSK	22.53
mid	1880	376000	20	RB_1_low	QPSK	22.26
mid	1880	376000	20	RB_1_low	16QAM	21.36
mid	1880	376000	20	RB_1_low	64QAM	20.97
mid	1880	376000	20	RB_1_low	256QAM	18.50
mid	1880	376000	20	RB_1_low+1	BPSK	23.08
mid	**1880**	**376000**	**20**	**RB_1_low+1**	**QPSK**	**23.14**
mid	1880	376000	20	RB_1_low+1	16QAM	22.35
mid	1880	376000	20	RB_1_low+1	64QAM	20.79
mid	1880	376000	20	RB_1_low+1	256QAM	18.78

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1880	376000	20	RB_1_high-1	BPSK	22.91
mid	1880	376000	20	RB_1_high-1	QPSK	22.95
mid	1880	376000	20	RB_1_high-1	16QAM	22.23
mid	1880	376000	20	RB_1_high-1	64QAM	20.62
mid	1880	376000	20	RB_1_high-1	256QAM	18.96
mid	1880	376000	20	RB_1_high	BPSK	22.96
mid	1880	376000	20	RB_1_high	QPSK	22.99
mid	1880	376000	20	RB_1_high	16QAM	22.24
mid	1880	376000	20	RB_1_high	64QAM	20.50
mid	1880	376000	20	RB_1_high	256QAM	18.78
mid	**1880**	**376000**	**20**	**RB_50%_mid**	**BPSK**	**23.23**
mid	1880	376000	20	RB_50%_mid	QPSK	23.12
mid	1880	376000	20	RB_50%_mid	16QAM	22.14
mid	1880	376000	20	RB_50%_mid	64QAM	20.66
mid	1880	376000	20	RB_50%_mid	256QAM	18.68
mid	1880	376000	20	RB_100%	BPSK	22.61
mid	1880	376000	20	RB_100%	QPSK	22.16
mid	1880	376000	20	RB_100%	16QAM	21.13
mid	1880	376000	20	RB_100%	64QAM	20.63
mid	1880	376000	20	RB_100%	256QAM	18.62
high	1900	380000	20	RB_1_low	BPSK	22.56
high	1900	380000	20	RB_1_low	QPSK	22.07
high	1900	380000	20	RB_1_low	16QAM	20.95
high	1900	380000	20	RB_1_low	64QAM	20.90
high	1900	380000	20	RB_1_low	256QAM	19.02
high	**1900**	**380000**	**20**	**RB_1_low+1**	**BPSK**	**23.04**
high	1900	380000	20	RB_1_low+1	QPSK	22.97
high	1900	380000	20	RB_1_low+1	16QAM	22.12
high	1900	380000	20	RB_1_low+1	64QAM	20.45
high	1900	380000	20	RB_1_low+1	256QAM	18.78
high	1900	380000	20	RB_1_high-1	BPSK	22.69
high	1900	380000	20	RB_1_high-1	QPSK	22.93
high	1900	380000	20	RB_1_high-1	16QAM	22.19
high	1900	380000	20	RB_1_high-1	64QAM	20.63
high	1900	380000	20	RB_1_high-1	256QAM	18.45
high	1900	380000	20	RB_1_high	BPSK	22.76
high	1900	380000	20	RB_1_high	QPSK	22.96
high	1900	380000	20	RB_1_high	16QAM	22.26
high	1900	380000	20	RB_1_high	64QAM	20.58
high	1900	380000	20	RB_1_high	256QAM	18.67
high	1900	380000	20	RB_50%_mid	BPSK	23.18
high	1900	380000	20	RB_50%_mid	QPSK	23.15
high	1900	380000	20	RB_50%_mid	16QAM	22.18
high	1900	380000	20	RB_50%_mid	64QAM	20.68
high	1900	380000	20	RB_50%_mid	256QAM	18.77
high	1900	380000	20	RB_100%	BPSK	22.59
high	1900	380000	20	RB_100%	QPSK	22.14
high	1900	380000	20	RB_100%	16QAM	21.14
high	1900	380000	20	RB_100%	64QAM	20.59
high	1900	380000	20	RB_100%	256QAM	18.63

Table 29: Test results conducted power measurement 5G NR FDD n2 1900 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	826.5	165300	5	RB_1_low	BPSK	22.59
low	826.5	165300	5	RB_1_low	QPSK	22.17
low	826.5	165300	5	RB_1_low	16QAM	21.12
low	826.5	165300	5	RB_1_low	64QAM	20.88
low	826.5	165300	5	RB_1_low	256QAM	18.80
low	826.5	165300	5	RB_1_low+1	BPSK	23.01
low	826.5	165300	5	RB_1_low+1	QPSK	23.12
low	826.5	165300	5	RB_1_low+1	16QAM	22.14
low	826.5	165300	5	RB_1_low+1	64QAM	20.79
low	826.5	165300	5	RB_1_low+1	256QAM	18.90
low	826.5	165300	5	RB_1_high-1	BPSK	22.88
low	826.5	165300	5	RB_1_high-1	QPSK	22.98
low	826.5	165300	5	RB_1_high-1	16QAM	22.20
low	826.5	165300	5	RB_1_high-1	64QAM	20.71
low	826.5	165300	5	RB_1_high-1	256QAM	18.93
low	826.5	165300	5	RB_1_high	BPSK	22.61
low	826.5	165300	5	RB_1_high	QPSK	21.99
low	826.5	165300	5	RB_1_high	16QAM	21.12
low	826.5	165300	5	RB_1_high	64QAM	20.71
low	826.5	165300	5	RB_1_high	256QAM	18.70
low	826.5	165300	5	RB_50%_mid	BPSK	23.39
low	826.5	165300	5	RB_50%_mid	QPSK	23.12
low	826.5	165300	5	RB_50%_mid	16QAM	22.24
low	826.5	165300	5	RB_50%_mid	64QAM	20.48
low	826.5	165300	5	RB_50%_mid	256QAM	18.65
low	826.5	165300	5	RB_100%	BPSK	22.62
low	826.5	165300	5	RB_100%	QPSK	22.12
low	826.5	165300	5	RB_100%	16QAM	21.24
low	826.5	165300	5	RB_100%	64QAM	20.61
low	826.5	165300	5	RB_100%	256QAM	18.61
mid	836.5	167300	5	RB_1_low	BPSK	22.53
mid	836.5	167300	5	RB_1_low	QPSK	22.01
mid	836.5	167300	5	RB_1_low	16QAM	21.29
mid	836.5	167300	5	RB_1_low	64QAM	20.63
mid	836.5	167300	5	RB_1_low	256QAM	18.40
mid	836.5	167300	5	RB_1_low+1	BPSK	23.16
mid	836.5	167300	5	RB_1_low+1	QPSK	23.12
mid	836.5	167300	5	RB_1_low+1	16QAM	22.53
mid	836.5	167300	5	RB_1_low+1	64QAM	20.88
mid	836.5	167300	5	RB_1_low+1	256QAM	18.75
mid	836.5	167300	5	RB_1_high-1	BPSK	22.92
mid	836.5	167300	5	RB_1_high-1	QPSK	23.09
mid	836.5	167300	5	RB_1_high-1	16QAM	22.00
mid	836.5	167300	5	RB_1_high-1	64QAM	20.62
mid	836.5	167300	5	RB_1_high-1	256QAM	18.64

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	836.5	167300	5	RB_1_high	BPSK	22.42
mid	836.5	167300	5	RB_1_high	QPSK	21.95
mid	836.5	167300	5	RB_1_high	16QAM	21.22
mid	836.5	167300	5	RB_1_high	64QAM	20.39
mid	836.5	167300	5	RB_1_high	256QAM	18.98
mid	836.5	167300	5	RB_50%_mid	BPSK	23.02
mid	836.5	167300	5	RB_50%_mid	QPSK	23.09
mid	836.5	167300	5	RB_50%_mid	16QAM	22.03
mid	836.5	167300	5	RB_50%_mid	64QAM	20.74
mid	836.5	167300	5	RB_50%_mid	256QAM	18.58
mid	836.5	167300	5	RB_100%	BPSK	22.54
mid	836.5	167300	5	RB_100%	QPSK	22.00
mid	836.5	167300	5	RB_100%	16QAM	21.05
mid	836.5	167300	5	RB_100%	64QAM	20.60
mid	836.5	167300	5	RB_100%	256QAM	18.60
high	846.5	169300	5	RB_1_low	BPSK	22.35
high	846.5	169300	5	RB_1_low	QPSK	22.05
high	846.5	169300	5	RB_1_low	16QAM	20.92
high	846.5	169300	5	RB_1_low	64QAM	20.56
high	846.5	169300	5	RB_1_low	256QAM	18.58
high	846.5	169300	5	RB_1_low+1	BPSK	22.91
high	846.5	169300	5	RB_1_low+1	QPSK	22.92
high	846.5	169300	5	RB_1_low+1	16QAM	22.05
high	846.5	169300	5	RB_1_low+1	64QAM	20.57
high	846.5	169300	5	RB_1_low+1	256QAM	18.91
high	846.5	169300	5	RB_1_high-1	BPSK	22.77
high	846.5	169300	5	RB_1_high-1	QPSK	22.73
high	846.5	169300	5	RB_1_high-1	16QAM	21.81
high	846.5	169300	5	RB_1_high-1	64QAM	20.55
high	846.5	169300	5	RB_1_high-1	256QAM	18.28
high	846.5	169300	5	RB_1_high	BPSK	22.10
high	846.5	169300	5	RB_1_high	QPSK	21.74
high	846.5	169300	5	RB_1_high	16QAM	20.60
high	846.5	169300	5	RB_1_high	64QAM	20.42
high	846.5	169300	5	RB_1_high	256QAM	18.37
high	846.5	169300	5	RB_50%_mid	BPSK	22.93
high	846.5	169300	5	RB_50%_mid	QPSK	22.94
high	846.5	169300	5	RB_50%_mid	16QAM	21.86
high	846.5	169300	5	RB_50%_mid	64QAM	20.47
high	846.5	169300	5	RB_50%_mid	256QAM	18.44
high	846.5	169300	5	RB_100%	BPSK	22.35
high	846.5	169300	5	RB_100%	QPSK	21.94
high	846.5	169300	5	RB_100%	16QAM	20.90
high	846.5	169300	5	RB_100%	64QAM	20.50
high	846.5	169300	5	RB_100%	256QAM	18.34

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	829	165800	10	RB_1_low	BPSK	22.66
low	829	165800	10	RB_1_low	QPSK	22.02
low	829	165800	10	RB_1_low	16QAM	21.19
low	829	165800	10	RB_1_low	64QAM	20.75
low	829	165800	10	RB_1_low	256QAM	18.71
low	829	165800	10	RB_1_low+1	BPSK	22.99
low	829	165800	10	RB_1_low+1	QPSK	
low	829	165800	10	RB_1_low+1	16QAM	22.32
low	829	165800	10	RB_1_low+1	64QAM	20.83
low	829	165800	10	RB_1_low+1	256QAM	18.62
low	829	165800	10	RB_1_high-1	BPSK	22.96
low	829	165800	10	RB_1_high-1	QPSK	23.09
low	829	165800	10	RB_1_high-1	16QAM	22.55
low	829	165800	10	RB_1_high-1	64QAM	20.50
low	829	165800	10	RB_1_high-1	256QAM	18.63
low	829	165800	10	RB_1_high	BPSK	22.95
low	829	165800	10	RB_1_high	QPSK	23.00
low	829	165800	10	RB_1_high	16QAM	22.24
low	829	165800	10	RB_1_high	64QAM	20.34
low	829	165800	10	RB_1_high	256QAM	18.58
low	829	165800	10	RB_50%_mid	BPSK	23.21
low	829	165800	10	RB_50%_mid	QPSK	23.35
low	829	165800	10	RB_50%_mid	16QAM	22.20
low	829	165800	10	RB_50%_mid	64QAM	20.66
low	829	165800	10	RB_50%_mid	256QAM	18.69
low	829	165800	10	RB_100%	BPSK	22.66
low	829	165800	10	RB_100%	QPSK	22.12
low	829	165800	10	RB_100%	16QAM	21.12
low	829	165800	10	RB_100%	64QAM	20.68
low	829	165800	10	RB_100%	256QAM	18.73
mid	836.5	167300	10	RB_1_low	BPSK	22.43
mid	836.5	167300	10	RB_1_low	QPSK	22.12
mid	836.5	167300	10	RB_1_low	16QAM	21.36
mid	836.5	167300	10	RB_1_low	64QAM	20.74
mid	836.5	167300	10	RB_1_low	256QAM	18.55
mid	836.5	167300	10	RB_1_low+1	BPSK	22.88
mid	836.5	167300	10	RB_1_low+1	QPSK	23.09
mid	836.5	167300	10	RB_1_low+1	16QAM	22.01
mid	836.5	167300	10	RB_1_low+1	64QAM	21.04
mid	836.5	167300	10	RB_1_low+1	256QAM	18.54
mid	836.5	167300	10	RB_1_high-1	BPSK	22.96
mid	836.5	167300	10	RB_1_high-1	QPSK	23.11
mid	836.5	167300	10	RB_1_high-1	16QAM	22.39
mid	836.5	167300	10	RB_1_high-1	64QAM	20.87
mid	836.5	167300	10	RB_1_high-1	256QAM	18.67

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	836.5	167300	10	RB_1_high	BPSK	22.94
mid	836.5	167300	10	RB_1_high	QPSK	22.96
mid	836.5	167300	10	RB_1_high	16QAM	22.04
mid	836.5	167300	10	RB_1_high	64QAM	20.55
mid	836.5	167300	10	RB_1_high	256QAM	18.51
mid	836.5	167300	10	RB_50%_mid	BPSK	22.56
mid	836.5	167300	10	RB_50%_mid	QPSK	23.17
mid	836.5	167300	10	RB_50%_mid	16QAM	22.11
mid	836.5	167300	10	RB_50%_mid	64QAM	20.63
mid	836.5	167300	10	RB_50%_mid	256QAM	18.54
mid	836.5	167300	10	RB_100%	BPSK	22.70
mid	836.5	167300	10	RB_100%	QPSK	22.12
mid	836.5	167300	10	RB_100%	16QAM	21.14
mid	836.5	167300	10	RB_100%	64QAM	20.72
mid	836.5	167300	10	RB_100%	256QAM	18.65
high	844	168800	10	RB_1_low	BPSK	22.53
high	844	168800	10	RB_1_low	QPSK	21.99
high	844	168800	10	RB_1_low	16QAM	21.06
high	844	168800	10	RB_1_low	64QAM	20.48
high	844	168800	10	RB_1_low	256QAM	18.58
high	844	168800	10	RB_1_low+1	BPSK	22.86
high	844	168800	10	RB_1_low+1	QPSK	23.15
high	844	168800	10	RB_1_low+1	16QAM	22.06
high	844	168800	10	RB_1_low+1	64QAM	20.84
high	844	168800	10	RB_1_low+1	256QAM	18.74
high	844	168800	10	RB_1_high-1	BPSK	22.68
high	844	168800	10	RB_1_high-1	QPSK	22.73
high	844	168800	10	RB_1_high-1	16QAM	22.29
high	844	168800	10	RB_1_high-1	64QAM	20.17
high	844	168800	10	RB_1_high-1	256QAM	18.49
high	844	168800	10	RB_1_high	BPSK	22.74
high	844	168800	10	RB_1_high	QPSK	22.76
high	844	168800	10	RB_1_high	16QAM	21.80
high	844	168800	10	RB_1_high	64QAM	20.66
high	844	168800	10	RB_1_high	256QAM	18.39
high	844	168800	10	RB_50%_mid	BPSK	23.10
high	844	168800	10	RB_50%_mid	QPSK	22.95
high	844	168800	10	RB_50%_mid	16QAM	22.02
high	844	168800	10	RB_50%_mid	64QAM	20.50
high	844	168800	10	RB_50%_mid	256QAM	18.55
high	844	168800	10	RB_100%	BPSK	22.47
high	844	168800	10	RB_100%	QPSK	21.97
high	844	168800	10	RB_100%	16QAM	21.02
high	844	168800	10	RB_100%	64QAM	20.51
high	844	168800	10	RB_100%	256QAM	18.54

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	831.5	166300	15	RB_1_low	BPSK	22.76
low	831.5	166300	15	RB_1_low	QPSK	22.03
low	831.5	166300	15	RB_1_low	16QAM	21.34
low	831.5	166300	15	RB_1_low	64QAM	20.84
low	831.5	166300	15	RB_1_low	256QAM	18.60
low	831.5	166300	15	RB_1_low+1	BPSK	22.93
low	831.5	166300	15	RB_1_low+1	QPSK	23.23
low	831.5	166300	15	RB_1_low+1	16QAM	22.66
low	831.5	166300	15	RB_1_low+1	64QAM	20.96
low	831.5	166300	15	RB_1_low+1	256QAM	18.91
low	831.5	166300	15	RB_1_high-1	BPSK	23.06
low	831.5	166300	15	RB_1_high-1	QPSK	23.05
low	831.5	166300	15	RB_1_high-1	16QAM	22.15
low	831.5	166300	15	RB_1_high-1	64QAM	20.83
low	831.5	166300	15	RB_1_high-1	256QAM	18.72
low	831.5	166300	15	RB_1_high	BPSK	22.93
low	831.5	166300	15	RB_1_high	QPSK	23.14
low	831.5	166300	15	RB_1_high	16QAM	22.30
low	831.5	166300	15	RB_1_high	64QAM	20.59
low	831.5	166300	15	RB_1_high	256QAM	18.98
low	831.5	166300	15	RB_50%_mid	BPSK	23.22
low	831.5	166300	15	RB_50%_mid	QPSK	23.21
low	831.5	166300	15	RB_50%_mid	16QAM	22.23
low	831.5	166300	15	RB_50%_mid	64QAM	20.82
low	831.5	166300	15	RB_50%_mid	256QAM	18.85
low	831.5	166300	15	RB_100%	BPSK	22.75
low	831.5	166300	15	RB_100%	QPSK	22.20
low	831.5	166300	15	RB_100%	16QAM	21.25
low	831.5	166300	15	RB_100%	64QAM	20.71
low	831.5	166300	15	RB_100%	256QAM	18.77
mid	836.5	167300	15	RB_1_low	BPSK	22.51
mid	836.5	167300	15	RB_1_low	QPSK	22.09
mid	836.5	167300	15	RB_1_low	16QAM	21.09
mid	836.5	167300	15	RB_1_low	64QAM	20.96
mid	836.5	167300	15	RB_1_low	256QAM	18.73
mid	836.5	167300	15	RB_1_low+1	BPSK	23.01
mid	836.5	167300	15	RB_1_low+1	QPSK	23.10
mid	836.5	167300	15	RB_1_low+1	16QAM	22.21
mid	836.5	167300	15	RB_1_low+1	64QAM	20.82
mid	836.5	167300	15	RB_1_low+1	256QAM	18.54
mid	836.5	167300	15	RB_1_high-1	BPSK	22.93
mid	836.5	167300	15	RB_1_high-1	QPSK	23.17
mid	836.5	167300	15	RB_1_high-1	16QAM	22.45
mid	836.5	167300	15	RB_1_high-1	64QAM	20.57
mid	836.5	167300	15	RB_1_high-1	256QAM	18.76

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	836.5	167300	15	RB_1_high	BPSK	22.96
mid	836.5	167300	15	RB_1_high	QPSK	23.13
mid	836.5	167300	15	RB_1_high	16QAM	22.34
mid	836.5	167300	15	RB_1_high	64QAM	20.58
mid	836.5	167300	15	RB_1_high	256QAM	18.57
mid	836.5	167300	15	RB_50%_mid	BPSK	23.01
mid	836.5	167300	15	RB_50%_mid	QPSK	**23.55**
mid	836.5	167300	15	RB_50%_mid	16QAM	22.22
mid	836.5	167300	15	RB_50%_mid	64QAM	20.74
mid	836.5	167300	15	RB_50%_mid	256QAM	18.80
mid	836.5	167300	15	RB_100%	BPSK	22.67
mid	836.5	167300	15	RB_100%	QPSK	22.20
mid	836.5	167300	15	RB_100%	16QAM	21.14
mid	836.5	167300	15	RB_100%	64QAM	20.59
mid	836.5	167300	15	RB_100%	256QAM	18.59
high	841.5	168300	15	RB_1_low	BPSK	22.58
high	841.5	168300	15	RB_1_low	QPSK	22.23
high	841.5	168300	15	RB_1_low	16QAM	21.17
high	841.5	168300	15	RB_1_low	64QAM	20.61
high	841.5	168300	15	RB_1_low	256QAM	18.68
high	841.5	168300	15	RB_1_low+1	BPSK	23.03
high	841.5	168300	15	RB_1_low+1	QPSK	23.09
high	841.5	168300	15	RB_1_low+1	16QAM	22.45
high	841.5	168300	15	RB_1_low+1	64QAM	21.08
high	841.5	168300	15	RB_1_low+1	256QAM	18.57
high	841.5	168300	15	RB_1_high-1	BPSK	22.79
high	841.5	168300	15	RB_1_high-1	QPSK	22.88
high	841.5	168300	15	RB_1_high-1	16QAM	22.19
high	841.5	168300	15	RB_1_high-1	64QAM	20.55
high	841.5	168300	15	RB_1_high-1	256QAM	18.59
high	841.5	168300	15	RB_1_high	BPSK	22.80
high	841.5	168300	15	RB_1_high	QPSK	22.89
high	841.5	168300	15	RB_1_high	16QAM	22.04
high	841.5	168300	15	RB_1_high	64QAM	20.16
high	841.5	168300	15	RB_1_high	256QAM	18.40
high	841.5	168300	15	RB_50%_mid	BPSK	22.95
high	841.5	168300	15	RB_50%_mid	QPSK	23.00
high	841.5	168300	15	RB_50%_mid	16QAM	22.19
high	841.5	168300	15	RB_50%_mid	64QAM	20.70
high	841.5	168300	15	RB_50%_mid	256QAM	18.78
high	841.5	168300	15	RB_100%	BPSK	22.54
high	841.5	168300	15	RB_100%	QPSK	22.03
high	841.5	168300	15	RB_100%	16QAM	21.08
high	841.5	168300	15	RB_100%	64QAM	20.55
high	841.5	168300	15	RB_100%	256QAM	18.58

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	834	166800	20	RB_1_low	BPSK	22.67
low	834	166800	20	RB_1_low	QPSK	22.13
low	834	166800	20	RB_1_low	16QAM	21.10
low	834	166800	20	RB_1_low	64QAM	20.83
low	834	166800	20	RB_1_low	256QAM	18.71
low	834	166800	20	RB_1_low+1	BPSK	23.02
low	834	166800	20	RB_1_low+1	QPSK	23.10
low	834	166800	20	RB_1_low+1	16QAM	21.93
low	834	166800	20	RB_1_low+1	64QAM	20.72
low	834	166800	20	RB_1_low+1	256QAM	18.56
low	834	166800	20	RB_1_high-1	BPSK	22.95
low	**834**	**166800**	**20**	**RB_1_high-1**	**QPSK**	**23.11**
low	834	166800	20	RB_1_high-1	16QAM	22.03
low	834	166800	20	RB_1_high-1	64QAM	20.62
low	834	166800	20	RB_1_high-1	256QAM	18.64
low	834	166800	20	RB_1_high	BPSK	23.01
low	834	166800	20	RB_1_high	QPSK	23.02
low	834	166800	20	RB_1_high	16QAM	21.90
low	834	166800	20	RB_1_high	64QAM	20.72
low	834	166800	20	RB_1_high	256QAM	18.55
low	834	166800	20	RB_50%_mid	BPSK	23.14
low	**834**	**166800**	**20**	**RB_50%_mid**	**QPSK**	**23.22**
low	834	166800	20	RB_50%_mid	16QAM	22.28
low	834	166800	20	RB_50%_mid	64QAM	20.68
low	834	166800	20	RB_50%_mid	256QAM	18.68
low	834	166800	20	RB_100%	BPSK	22.64
low	834	166800	20	RB_100%	QPSK	22.24
low	834	166800	20	RB_100%	16QAM	21.21
low	834	166800	20	RB_100%	64QAM	20.65
low	834	166800	20	RB_100%	256QAM	18.70
mid	836.5	167300	20	RB_1_low	BPSK	22.53
mid	836.5	167300	20	RB_1_low	QPSK	22.02
mid	836.5	167300	20	RB_1_low	16QAM	21.08
mid	836.5	167300	20	RB_1_low	64QAM	20.58
mid	836.5	167300	20	RB_1_low	256QAM	18.56
mid	836.5	167300	20	RB_1_low+1	BPSK	22.95
mid	**836.5**	**167300**	**20**	**RB_1_low+1**	**QPSK**	**23.11**
mid	836.5	167300	20	RB_1_low+1	16QAM	22.07
mid	836.5	167300	20	RB_1_low+1	64QAM	20.52
mid	836.5	167300	20	RB_1_low+1	256QAM	18.71
mid	836.5	167300	20	RB_1_high-1	BPSK	22.86
mid	836.5	167300	20	RB_1_high-1	QPSK	22.91
mid	836.5	167300	20	RB_1_high-1	16QAM	22.02
mid	836.5	167300	20	RB_1_high-1	64QAM	20.62
mid	836.5	167300	20	RB_1_high-1	256QAM	18.58

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	836.5	167300	20	RB_1_high	BPSK	22.80
mid	836.5	167300	20	RB_1_high	QPSK	22.99
mid	836.5	167300	20	RB_1_high	16QAM	22.22
mid	836.5	167300	20	RB_1_high	64QAM	20.67
mid	836.5	167300	20	RB_1_high	256QAM	18.40
mid	836.5	167300	20	RB_50%_mid	BPSK	23.13
mid	836.5	167300	20	RB_50%_mid	QPSK	23.18
mid	836.5	167300	20	RB_50%_mid	16QAM	22.12
mid	836.5	167300	20	RB_50%_mid	64QAM	20.64
mid	836.5	167300	20	RB_50%_mid	256QAM	18.63
mid	836.5	167300	20	RB_100%	BPSK	22.63
mid	836.5	167300	20	RB_100%	QPSK	22.17
mid	836.5	167300	20	RB_100%	16QAM	21.08
mid	836.5	167300	20	RB_100%	64QAM	20.60
mid	836.5	167300	20	RB_100%	256QAM	18.66
high	839	167800	20	RB_1_low	BPSK	22.49
high	839	167800	20	RB_1_low	QPSK	22.11
high	839	167800	20	RB_1_low	16QAM	21.12
high	839	167800	20	RB_1_low	64QAM	20.98
high	839	167800	20	RB_1_low	256QAM	18.77
high	839	167800	20	RB_1_low+1	BPSK	23.05
high	**839**	**167800**	**20**	**RB_1_low+1**	**QPSK**	**23.15**
high	839	167800	20	RB_1_low+1	16QAM	22.17
high	839	167800	20	RB_1_low+1	64QAM	20.56
high	839	167800	20	RB_1_low+1	256QAM	18.50
high	839	167800	20	RB_1_high-1	BPSK	22.82
high	839	167800	20	RB_1_high-1	QPSK	22.93
high	839	167800	20	RB_1_high-1	16QAM	21.78
high	839	167800	20	RB_1_high-1	64QAM	20.86
high	839	167800	20	RB_1_high-1	256QAM	18.57
high	839	167800	20	RB_1_high	BPSK	22.77
high	839	167800	20	RB_1_high	QPSK	22.84
high	839	167800	20	RB_1_high	16QAM	22.17
high	839	167800	20	RB_1_high	64QAM	20.49
high	839	167800	20	RB_1_high	256QAM	18.57
high	839	167800	20	RB_50%_mid	BPSK	23.06
high	839	167800	20	RB_50%_mid	QPSK	23.10
high	839	167800	20	RB_50%_mid	16QAM	22.04
high	839	167800	20	RB_50%_mid	64QAM	20.65
high	839	167800	20	RB_50%_mid	256QAM	18.53
high	839	167800	20	RB_100%	BPSK	22.54
high	839	167800	20	RB_100%	QPSK	22.15
high	839	167800	20	RB_100%	16QAM	21.16
high	839	167800	20	RB_100%	64QAM	20.64
high	839	167800	20	RB_100%	256QAM	18.59

Table 30: Test results conducted power measurement 5G NR FDD n5 850 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2506.02	501204	20	RB_1_low	BPSK	20.58
low	2506.02	501204	20	RB_1_low	QPSK	20.16
low	2506.02	501204	20	RB_1_low	16QAM	18.94
low	2506.02	501204	20	RB_1_low	64QAM	18.96
low	2506.02	501204	20	RB_1_low	256QAM	16.87
low	2506.02	501204	20	RB_1_low+1	BPSK	21.34
low	2506.02	501204	20	RB_1_low+1	QPSK	21.15
low	2506.02	501204	20	RB_1_low+1	16QAM	20.17
low	2506.02	501204	20	RB_1_low+1	64QAM	18.72
low	2506.02	501204	20	RB_1_low+1	256QAM	16.58
low	2506.02	501204	20	RB_1_high-1	BPSK	21.55
low	2506.02	501204	20	RB_1_high-1	QPSK	21.59
low	2506.02	501204	20	RB_1_high-1	16QAM	20.69
low	2506.02	501204	20	RB_1_high-1	64QAM	19.12
low	2506.02	501204	20	RB_1_high-1	256QAM	17.04
low	2506.02	501204	20	RB_1_high	BPSK	21.53
low	2506.02	501204	20	RB_1_high	QPSK	21.70
low	2506.02	501204	20	RB_1_high	16QAM	20.68
low	2506.02	501204	20	RB_1_high	64QAM	19.13
low	2506.02	501204	20	RB_1_high	256QAM	16.85
low	2506.02	501204	20	RB_50%_mid	BPSK	21.44
low	2506.02	501204	20	RB_50%_mid	QPSK	21.45
low	2506.02	501204	20	RB_50%_mid	16QAM	20.38
low	2506.02	501204	20	RB_50%_mid	64QAM	18.99
low	2506.02	501204	20	RB_50%_mid	256QAM	16.91
low	2506.02	501204	20	RB_100%	BPSK	20.94
low	2506.02	501204	20	RB_100%	QPSK	20.46
low	2506.02	501204	20	RB_100%	16QAM	19.48
low	2506.02	501204	20	RB_100%	64QAM	18.86
low	2506.02	501204	20	RB_100%	256QAM	16.94
mid	2592.99	518598	20	RB_1_low	BPSK	22.36
mid	2592.99	518598	20	RB_1_low	QPSK	21.96
mid	2592.99	518598	20	RB_1_low	16QAM	20.97
mid	2592.99	518598	20	RB_1_low	64QAM	20.44
mid	2592.99	518598	20	RB_1_low	256QAM	18.56
mid	2592.99	518598	20	RB_1_low+1	BPSK	22.80
mid	2592.99	518598	20	RB_1_low+1	QPSK	22.74
mid	2592.99	518598	20	RB_1_low+1	16QAM	22.04
mid	2592.99	518598	20	RB_1_low+1	64QAM	20.52
mid	2592.99	518598	20	RB_1_low+1	256QAM	18.55
mid	2592.99	518598	20	RB_1_high-1	BPSK	23.01
mid	2592.99	518598	20	RB_1_high-1	QPSK	23.08
mid	2592.99	518598	20	RB_1_high-1	16QAM	22.06
mid	2592.99	518598	20	RB_1_high-1	64QAM	20.36
mid	2592.99	518598	20	RB_1_high-1	256QAM	18.81

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	2592.99	518598	20	RB_1_high	BPSK	23.05
mid	2592.99	518598	20	RB_1_high	QPSK	23.06
mid	2592.99	518598	20	RB_1_high	16QAM	22.22
mid	2592.99	518598	20	RB_1_high	64QAM	20.56
mid	2592.99	518598	20	RB_1_high	256QAM	18.50
mid	2592.99	518598	20	RB_50%_mid	BPSK	22.83
mid	2592.99	518598	20	RB_50%_mid	QPSK	22.89
mid	2592.99	518598	20	RB_50%_mid	16QAM	21.83
mid	2592.99	518598	20	RB_50%_mid	64QAM	20.32
mid	2592.99	518598	20	RB_50%_mid	256QAM	18.27
mid	2592.99	518598	20	RB_100%	BPSK	22.37
mid	2592.99	518598	20	RB_100%	QPSK	21.85
mid	2592.99	518598	20	RB_100%	16QAM	20.86
mid	2592.99	518598	20	RB_100%	64QAM	20.42
mid	2592.99	518598	20	RB_100%	256QAM	18.42
high	2679.99	535998	20	RB_1_low	BPSK	23.86
high	2679.99	535998	20	RB_1_low	QPSK	23.57
high	2679.99	535998	20	RB_1_low	16QAM	22.29
high	2679.99	535998	20	RB_1_low	64QAM	22.02
high	2679.99	535998	20	RB_1_low	256QAM	19.88
high	2679.99	535998	20	RB_1_low+1	BPSK	23.72
high	2679.99	535998	20	RB_1_low+1	QPSK	23.15
high	2679.99	535998	20	RB_1_low+1	16QAM	22.19
high	2679.99	535998	20	RB_1_low+1	64QAM	21.13
high	2679.99	535998	20	RB_1_low+1	256QAM	19.76
high	2679.99	535998	20	RB_1_high-1	BPSK	23.08
high	2679.99	535998	20	RB_1_high-1	QPSK	23.02
high	2679.99	535998	20	RB_1_high-1	16QAM	21.88
high	2679.99	535998	20	RB_1_high-1	64QAM	21.66
high	2679.99	535998	20	RB_1_high-1	256QAM	19.81
high	2679.99	535998	20	RB_1_high	BPSK	23.07
high	2679.99	535998	20	RB_1_high	QPSK	22.96
high	2679.99	535998	20	RB_1_high	16QAM	21.97
high	2679.99	535998	20	RB_1_high	64QAM	20.93
high	2679.99	535998	20	RB_1_high	256QAM	19.68
high	2679.99	535998	20	RB_50%_mid	BPSK	23.56
high	2679.99	535998	20	RB_50%_mid	QPSK	23.34
high	2679.99	535998	20	RB_50%_mid	16QAM	22.34
high	2679.99	535998	20	RB_50%_mid	64QAM	20.97
high	2679.99	535998	20	RB_50%_mid	256QAM	19.42
high	2679.99	535998	20	RB_100%	BPSK	23.83
high	2679.99	535998	20	RB_100%	QPSK	23.19
high	2679.99	535998	20	RB_100%	16QAM	21.42
high	2679.99	535998	20	RB_100%	64QAM	21.42
high	2679.99	535998	20	RB_100%	256QAM	19.72

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2516.01	503202	40	RB_1_low	BPSK	21.07
low	2516.01	503202	40	RB_1_low	QPSK	20.17
low	2516.01	503202	40	RB_1_low	16QAM	19.28
low	2516.01	503202	40	RB_1_low	64QAM	18.80
low	2516.01	503202	40	RB_1_low	256QAM	16.88
low	2516.01	503202	40	RB_1_low+1	BPSK	21.28
low	2516.01	503202	40	RB_1_low+1	QPSK	21.31
low	2516.01	503202	40	RB_1_low+1	16QAM	20.23
low	2516.01	503202	40	RB_1_low+1	64QAM	18.79
low	2516.01	503202	40	RB_1_low+1	256QAM	16.70
low	2516.01	503202	40	RB_1_high-1	BPSK	22.03
low	2516.01	503202	40	RB_1_high-1	QPSK	21.89
low	2516.01	503202	40	RB_1_high-1	16QAM	20.86
low	2516.01	503202	40	RB_1_high-1	64QAM	19.36
low	2516.01	503202	40	RB_1_high-1	256QAM	17.38
low	2516.01	503202	40	RB_1_high	BPSK	22.08
low	2516.01	503202	40	RB_1_high	QPSK	21.96
low	2516.01	503202	40	RB_1_high	16QAM	20.69
low	2516.01	503202	40	RB_1_high	64QAM	19.52
low	2516.01	503202	40	RB_1_high	256QAM	17.63
low	2516.01	503202	40	RB_50%_mid	BPSK	21.72
low	2516.01	503202	40	RB_50%_mid	QPSK	21.57
low	2516.01	503202	40	RB_50%_mid	16QAM	20.65
low	2516.01	503202	40	RB_50%_mid	64QAM	19.18
low	2516.01	503202	40	RB_50%_mid	256QAM	17.11
low	2516.01	503202	40	RB_100%	BPSK	21.14
low	2516.01	503202	40	RB_100%	QPSK	20.69
low	2516.01	503202	40	RB_100%	16QAM	19.63
low	2516.01	503202	40	RB_100%	64QAM	19.08
low	2516.01	503202	40	RB_100%	256QAM	17.10
mid	2592.99	518598	40	RB_1_low	BPSK	22.42
mid	2592.99	518598	40	RB_1_low	QPSK	21.89
mid	2592.99	518598	40	RB_1_low	16QAM	20.58
mid	2592.99	518598	40	RB_1_low	64QAM	20.12
mid	2592.99	518598	40	RB_1_low	256QAM	18.11
mid	2592.99	518598	40	RB_1_low+1	BPSK	22.84
mid	2592.99	518598	40	RB_1_low+1	QPSK	22.77
mid	2592.99	518598	40	RB_1_low+1	16QAM	21.71
mid	2592.99	518598	40	RB_1_low+1	64QAM	20.18
mid	2592.99	518598	40	RB_1_low+1	256QAM	18.59
mid	2592.99	518598	40	RB_1_high-1	BPSK	23.35
mid	2592.99	518598	40	RB_1_high-1	QPSK	23.32
mid	2592.99	518598	40	RB_1_high-1	16QAM	22.25
mid	2592.99	518598	40	RB_1_high-1	64QAM	20.88
mid	2592.99	518598	40	RB_1_high-1	256QAM	19.08

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	2592.99	518598	40	RB_1_high	BPSK	23.30
mid	2592.99	518598	40	RB_1_high	QPSK	23.27
mid	2592.99	518598	40	RB_1_high	16QAM	22.20
mid	2592.99	518598	40	RB_1_high	64QAM	20.84
mid	2592.99	518598	40	RB_1_high	256QAM	18.74
mid	2592.99	518598	40	RB_50%_mid	BPSK	22.56
mid	2592.99	518598	40	RB_50%_mid	QPSK	22.84
mid	2592.99	518598	40	RB_50%_mid	16QAM	21.89
mid	2592.99	518598	40	RB_50%_mid	64QAM	20.36
mid	2592.99	518598	40	RB_50%_mid	256QAM	18.28
mid	2592.99	518598	40	RB_100%	BPSK	22.47
mid	2592.99	518598	40	RB_100%	QPSK	22.04
mid	2592.99	518598	40	RB_100%	16QAM	21.27
mid	2592.99	518598	40	RB_100%	64QAM	20.45
mid	2592.99	518598	40	RB_100%	256QAM	18.42
high	2670	534000	40	RB_1_low	BPSK	22.24
high	2670	534000	40	RB_1_low	QPSK	23.38
high	2670	534000	40	RB_1_low	16QAM	22.50
high	2670	534000	40	RB_1_low	64QAM	21.83
high	2670	534000	40	RB_1_low	256QAM	19.68
high	2670	534000	40	RB_1_low+1	BPSK	23.00
high	2670	534000	40	RB_1_low+1	QPSK	23.00
high	2670	534000	40	RB_1_low+1	16QAM	22.50
high	2670	534000	40	RB_1_low+1	64QAM	21.82
high	2670	534000	40	RB_1_low+1	256QAM	19.74
high	2670	534000	40	RB_1_high-1	BPSK	23.48
high	2670	534000	40	RB_1_high-1	QPSK	23.41
high	2670	534000	40	RB_1_high-1	16QAM	22.39
high	2670	534000	40	RB_1_high-1	64QAM	21.12
high	2670	534000	40	RB_1_high-1	256QAM	19.51
high	2670	534000	40	RB_1_high	BPSK	23.44
high	2670	534000	40	RB_1_high	QPSK	23.38
high	2670	534000	40	RB_1_high	16QAM	21.87
high	2670	534000	40	RB_1_high	64QAM	20.73
high	2670	534000	40	RB_1_high	256QAM	19.23
high	2670	534000	40	RB_50%_mid	BPSK	23.00
high	2670	534000	40	RB_50%_mid	QPSK	22.90
high	2670	534000	40	RB_50%_mid	16QAM	22.30
high	2670	534000	40	RB_50%_mid	64QAM	21.71
high	2670	534000	40	RB_50%_mid	256QAM	19.89
high	2670	534000	40	RB_100%	BPSK	23.96
high	2670	534000	40	RB_100%	QPSK	23.39
high	2670	534000	40	RB_100%	16QAM	22.50
high	2670	534000	40	RB_100%	64QAM	21.78
high	2670	534000	40	RB_100%	256QAM	19.92

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2521.02	504204	50	RB_1_low	BPSK	21.18
low	2521.02	504204	50	RB_1_low	QPSK	20.33
low	2521.02	504204	50	RB_1_low	16QAM	19.19
low	2521.02	504204	50	RB_1_low	64QAM	18.56
low	2521.02	504204	50	RB_1_low	256QAM	16.49
low	2521.02	504204	50	RB_1_low+1	BPSK	21.26
low	2521.02	504204	50	RB_1_low+1	QPSK	21.29
low	2521.02	504204	50	RB_1_low+1	16QAM	20.19
low	2521.02	504204	50	RB_1_low+1	64QAM	18.76
low	2521.02	504204	50	RB_1_low+1	256QAM	16.51
low	2521.02	504204	50	RB_1_high-1	BPSK	21.71
low	2521.02	504204	50	RB_1_high-1	QPSK	21.79
low	2521.02	504204	50	RB_1_high-1	16QAM	20.54
low	2521.02	504204	50	RB_1_high-1	64QAM	19.07
low	2521.02	504204	50	RB_1_high-1	256QAM	17.32
low	2521.02	504204	50	RB_1_high	BPSK	21.69
low	2521.02	504204	50	RB_1_high	QPSK	21.70
low	2521.02	504204	50	RB_1_high	16QAM	20.45
low	2521.02	504204	50	RB_1_high	64QAM	19.29
low	2521.02	504204	50	RB_1_high	256QAM	17.14
low	2521.02	504204	50	RB_50%_mid	BPSK	21.59
low	2521.02	504204	50	RB_50%_mid	QPSK	21.56
low	2521.02	504204	50	RB_50%_mid	16QAM	20.61
low	2521.02	504204	50	RB_50%_mid	64QAM	19.11
low	2521.02	504204	50	RB_50%_mid	256QAM	17.04
low	2521.02	504204	50	RB_100%	BPSK	21.17
low	2521.02	504204	50	RB_100%	QPSK	20.65
low	2521.02	504204	50	RB_100%	16QAM	19.65
low	2521.02	504204	50	RB_100%	64QAM	19.07
low	2521.02	504204	50	RB_100%	256QAM	17.10
mid	2592.99	518598	50	RB_1_low	BPSK	22.46
mid	2592.99	518598	50	RB_1_low	QPSK	21.78
mid	2592.99	518598	50	RB_1_low	16QAM	20.69
mid	2592.99	518598	50	RB_1_low	64QAM	20.36
mid	2592.99	518598	50	RB_1_low	256QAM	18.22
mid	2592.99	518598	50	RB_1_low+1	BPSK	22.73
mid	2592.99	518598	50	RB_1_low+1	QPSK	22.77
mid	2592.99	518598	50	RB_1_low+1	16QAM	21.84
mid	2592.99	518598	50	RB_1_low+1	64QAM	19.83
mid	2592.99	518598	50	RB_1_low+1	256QAM	18.12
mid	2592.99	518598	50	RB_1_high-1	BPSK	23.09
mid	2592.99	518598	50	RB_1_high-1	QPSK	23.15
mid	2592.99	518598	50	RB_1_high-1	16QAM	22.14
mid	2592.99	518598	50	RB_1_high-1	64QAM	20.72
mid	2592.99	518598	50	RB_1_high-1	256QAM	18.40

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	2592.99	518598	50	RB_1_high	BPSK	23.20
mid	2592.99	518598	50	RB_1_high	QPSK	23.21
mid	2592.99	518598	50	RB_1_high	16QAM	22.26
mid	2592.99	518598	50	RB_1_high	64QAM	20.43
mid	2592.99	518598	50	RB_1_high	256QAM	18.65
mid	2592.99	518598	50	RB_50%_mid	BPSK	22.94
mid	2592.99	518598	50	RB_50%_mid	QPSK	22.89
mid	2592.99	518598	50	RB_50%_mid	16QAM	21.79
mid	2592.99	518598	50	RB_50%_mid	64QAM	20.44
mid	2592.99	518598	50	RB_50%_mid	256QAM	18.38
mid	2592.99	518598	50	RB_100%	BPSK	22.51
mid	2592.99	518598	50	RB_100%	QPSK	21.96
mid	2592.99	518598	50	RB_100%	16QAM	20.82
mid	2592.99	518598	50	RB_100%	64QAM	20.44
mid	2592.99	518598	50	RB_100%	256QAM	18.38
high	2664.99	532998	50	RB_1_low	BPSK	23.88
high	2664.99	532998	50	RB_1_low	QPSK	22.62
high	2664.99	532998	50	RB_1_low	16QAM	21.80
high	2664.99	532998	50	RB_1_low	64QAM	21.32
high	2664.99	532998	50	RB_1_low	256QAM	19.20
high	2664.99	532998	50	RB_1_low+1	BPSK	23.79
high	2664.99	532998	50	RB_1_low+1	QPSK	23.77
high	2664.99	532998	50	RB_1_low+1	16QAM	22.55
high	2664.99	532998	50	RB_1_low+1	64QAM	21.15
high	2664.99	532998	50	RB_1_low+1	256QAM	19.17
high	2664.99	532998	50	RB_1_high-1	BPSK	23.02
high	2664.99	532998	50	RB_1_high-1	QPSK	23.32
high	2664.99	532998	50	RB_1_high-1	16QAM	22.17
high	2664.99	532998	50	RB_1_high-1	64QAM	21.21
high	2664.99	532998	50	RB_1_high-1	256QAM	20.33
high	2664.99	532998	50	RB_1_high	BPSK	23.10
high	2664.99	532998	50	RB_1_high	QPSK	23.16
high	2664.99	532998	50	RB_1_high	16QAM	22.17
high	2664.99	532998	50	RB_1_high	64QAM	20.80
high	2664.99	532998	50	RB_1_high	256QAM	19.92
high	2664.99	532998	50	RB_50%_mid	BPSK	23.30
high	2664.99	532998	50	RB_50%_mid	QPSK	23.10
high	2664.99	532998	50	RB_50%_mid	16QAM	22.20
high	2664.99	532998	50	RB_50%_mid	64QAM	21.62
high	2664.99	532998	50	RB_50%_mid	256QAM	19.68
high	2664.99	532998	50	RB_100%	BPSK	23.83
high	2664.99	532998	50	RB_100%	QPSK	23.33
high	2664.99	532998	50	RB_100%	16QAM	22.29
high	2664.99	532998	50	RB_100%	64QAM	21.73
high	2664.99	532998	50	RB_100%	256QAM	19.81

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2526	505200	60	RB_1_low	BPSK	21.82
low	2526	505200	60	RB_1_low	QPSK	21.83
low	2526	505200	60	RB_1_low	16QAM	19.71
low	2526	505200	60	RB_1_low	64QAM	18.95
low	2526	505200	60	RB_1_low	256QAM	17.11
low	2526	505200	60	RB_1_low+1	BPSK	21.17
low	2526	505200	60	RB_1_low+1	QPSK	21.21
low	2526	505200	60	RB_1_low+1	16QAM	20.27
low	2526	505200	60	RB_1_low+1	64QAM	18.47
low	2526	505200	60	RB_1_low+1	256QAM	16.71
low	2526	505200	60	RB_1_high-1	BPSK	21.78
low	2526	505200	60	RB_1_high-1	QPSK	21.83
low	2526	505200	60	RB_1_high-1	16QAM	20.82
low	2526	505200	60	RB_1_high-1	64QAM	19.10
low	2526	505200	60	RB_1_high-1	256QAM	17.29
low	2526	505200	60	RB_1_high	BPSK	21.39
low	2526	505200	60	RB_1_high	QPSK	20.93
low	2526	505200	60	RB_1_high	16QAM	20.12
low	2526	505200	60	RB_1_high	64QAM	19.29
low	2526	505200	60	RB_1_high	256QAM	17.22
low	2526	505200	60	RB_50%_mid	BPSK	21.74
low	2526	505200	60	RB_50%_mid	QPSK	21.75
low	2526	505200	60	RB_50%_mid	16QAM	20.83
low	2526	505200	60	RB_50%_mid	64QAM	19.23
low	2526	505200	60	RB_50%_mid	256QAM	17.17
low	2526	505200	60	RB_100%	BPSK	21.05
low	2526	505200	60	RB_100%	QPSK	20.91
low	2526	505200	60	RB_100%	16QAM	19.72
low	2526	505200	60	RB_100%	64QAM	19.29
low	2526	505200	60	RB_100%	256QAM	17.23
mid	2592.99	518598	60	RB_1_low	BPSK	22.45
mid	2592.99	518598	60	RB_1_low	QPSK	21.55
mid	2592.99	518598	60	RB_1_low	16QAM	20.87
mid	2592.99	518598	60	RB_1_low	64QAM	19.66
mid	2592.99	518598	60	RB_1_low	256QAM	18.25
mid	2592.99	518598	60	RB_1_low+1	BPSK	22.56
mid	2592.99	518598	60	RB_1_low+1	QPSK	22.54
mid	2592.99	518598	60	RB_1_low+1	16QAM	21.41
mid	2592.99	518598	60	RB_1_low+1	64QAM	19.97
mid	2592.99	518598	60	RB_1_low+1	256QAM	17.90
mid	2592.99	518598	60	RB_1_high-1	BPSK	23.54
mid	2592.99	518598	60	RB_1_high-1	QPSK	23.53
mid	2592.99	518598	60	RB_1_high-1	16QAM	22.50
mid	2592.99	518598	60	RB_1_high-1	64QAM	20.85
mid	2592.99	518598	60	RB_1_high-1	256QAM	18.68

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	2592.99	518598	60	RB_1_high	BPSK	22.94
mid	2592.99	518598	60	RB_1_high	QPSK	22.54
mid	2592.99	518598	60	RB_1_high	16QAM	21.81
mid	2592.99	518598	60	RB_1_high	64QAM	21.04
mid	2592.99	518598	60	RB_1_high	256QAM	19.13
mid	2592.99	518598	60	RB_50%_mid	BPSK	22.89
mid	2592.99	518598	60	RB_50%_mid	QPSK	22.95
mid	2592.99	518598	60	RB_50%_mid	16QAM	21.92
mid	2592.99	518598	60	RB_50%_mid	64QAM	20.47
mid	2592.99	518598	60	RB_50%_mid	256QAM	18.43
mid	2592.99	518598	60	RB_100%	BPSK	22.47
mid	2592.99	518598	60	RB_100%	QPSK	22.03
mid	2592.99	518598	60	RB_100%	16QAM	20.97
mid	2592.99	518598	60	RB_100%	64QAM	20.43
mid	2592.99	518598	60	RB_100%	256QAM	18.47
high	2659.98	531996	60	RB_1_low	BPSK	23.77
high	2659.98	531996	60	RB_1_low	QPSK	22.59
high	2659.98	531996	60	RB_1_low	16QAM	21.91
high	2659.98	531996	60	RB_1_low	64QAM	21.01
high	2659.98	531996	60	RB_1_low	256QAM	19.30
high	2659.98	531996	60	RB_1_low+1	BPSK	23.72
high	2659.98	531996	60	RB_1_low+1	QPSK	23.78
high	2659.98	531996	60	RB_1_low+1	16QAM	22.56
high	2659.98	531996	60	RB_1_low+1	64QAM	20.93
high	2659.98	531996	60	RB_1_low+1	256QAM	19.03
high	2659.98	531996	60	RB_1_high-1	BPSK	22.88
high	2659.98	531996	60	RB_1_high-1	QPSK	23.02
high	2659.98	531996	60	RB_1_high-1	16QAM	22.15
high	2659.98	531996	60	RB_1_high-1	64QAM	20.66
high	2659.98	531996	60	RB_1_high-1	256QAM	18.88
high	2659.98	531996	60	RB_1_high	BPSK	22.45
high	2659.98	531996	60	RB_1_high	QPSK	22.42
high	2659.98	531996	60	RB_1_high	16QAM	21.25
high	2659.98	531996	60	RB_1_high	64QAM	20.36
high	2659.98	531996	60	RB_1_high	256QAM	18.98
high	2659.98	531996	60	RB_50%_mid	BPSK	23.10
high	2659.98	531996	60	RB_50%_mid	QPSK	23.20
high	2659.98	531996	60	RB_50%_mid	16QAM	22.20
high	2659.98	531996	60	RB_50%_mid	64QAM	21.67
high	2659.98	531996	60	RB_50%_mid	256QAM	19.70
high	2659.98	531996	60	RB_100%	BPSK	23.70
high	2659.98	531996	60	RB_100%	QPSK	23.17
high	2659.98	531996	60	RB_100%	16QAM	22.20
high	2659.98	531996	60	RB_100%	64QAM	21.59
high	2659.98	531996	60	RB_100%	256QAM	19.70

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2536.02	507204	80	RB_1_low	BPSK	21.41
low	2536.02	507204	80	RB_1_low	QPSK	20.50
low	2536.02	507204	80	RB_1_low	16QAM	20.06
low	2536.02	507204	80	RB_1_low	64QAM	18.86
low	2536.02	507204	80	RB_1_low	256QAM	16.82
low	2536.02	507204	80	RB_1_low+1	BPSK	21.53
low	2536.02	507204	80	RB_1_low+1	QPSK	21.50
low	2536.02	507204	80	RB_1_low+1	16QAM	20.70
low	2536.02	507204	80	RB_1_low+1	64QAM	18.69
low	2536.02	507204	80	RB_1_low+1	256QAM	16.64
low	2536.02	507204	80	RB_1_high-1	BPSK	22.43
low	2536.02	507204	80	RB_1_high-1	QPSK	22.41
low	2536.02	507204	80	RB_1_high-1	16QAM	21.44
low	2536.02	507204	80	RB_1_high-1	64QAM	19.85
low	2536.02	507204	80	RB_1_high-1	256QAM	17.81
low	2536.02	507204	80	RB_1_high	BPSK	22.47
low	2536.02	507204	80	RB_1_high	QPSK	22.60
low	2536.02	507204	80	RB_1_high	16QAM	21.22
low	2536.02	507204	80	RB_1_high	64QAM	20.13
low	2536.02	507204	80	RB_1_high	256QAM	18.02
low	2536.02	507204	80	RB_50%_mid	BPSK	22.04
low	2536.02	507204	80	RB_50%_mid	QPSK	21.89
low	2536.02	507204	80	RB_50%_mid	16QAM	21.07
low	2536.02	507204	80	RB_50%_mid	64QAM	19.37
low	2536.02	507204	80	RB_50%_mid	256QAM	17.50
low	2536.02	507204	80	RB_100%	BPSK	21.53
low	2536.02	507204	80	RB_100%	QPSK	21.14
low	2536.02	507204	80	RB_100%	16QAM	19.97
low	2536.02	507204	80	RB_100%	64QAM	19.54
low	2536.02	507204	80	RB_100%	256QAM	17.83
mid	2592.99	518598	80	RB_1_low	BPSK	22.66
mid	2592.99	518598	80	RB_1_low	QPSK	21.58
mid	2592.99	518598	80	RB_1_low	16QAM	20.81
mid	2592.99	518598	80	RB_1_low	64QAM	19.59
mid	2592.99	518598	80	RB_1_low	256QAM	17.81
mid	2592.99	518598	80	RB_1_low+1	BPSK	22.66
mid	2592.99	518598	80	RB_1_low+1	QPSK	22.35
mid	2592.99	518598	80	RB_1_low+1	16QAM	21.11
mid	2592.99	518598	80	RB_1_low+1	64QAM	19.72
mid	2592.99	518598	80	RB_1_low+1	256QAM	17.75
mid	2592.99	518598	80	RB_1_high-1	BPSK	23.98
mid	2592.99	518598	80	RB_1_high-1	QPSK	23.90
mid	2592.99	518598	80	RB_1_high-1	16QAM	22.84
mid	2592.99	518598	80	RB_1_high-1	64QAM	21.63
mid	2592.99	518598	80	RB_1_high-1	256QAM	19.56

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	2592.99	518598	80	RB_1_high	BPSK	24.00
mid	2592.99	518598	80	RB_1_high	QPSK	23.88
mid	2592.99	518598	80	RB_1_high	16QAM	22.93
mid	2592.99	518598	80	RB_1_high	64QAM	21.00
mid	2592.99	518598	80	RB_1_high	256QAM	19.47
mid	2592.99	518598	80	RB_50%_mid	BPSK	23.24
mid	2592.99	518598	80	RB_50%_mid	QPSK	23.16
mid	2592.99	518598	80	RB_50%_mid	16QAM	21.92
mid	2592.99	518598	80	RB_50%_mid	64QAM	20.51
mid	2592.99	518598	80	RB_50%_mid	256QAM	18.54
mid	2592.99	518598	80	RB_100%	BPSK	22.84
mid	2592.99	518598	80	RB_100%	QPSK	22.29
mid	2592.99	518598	80	RB_100%	16QAM	21.14
mid	2592.99	518598	80	RB_100%	64QAM	20.82
mid	2592.99	518598	80	RB_100%	256QAM	18.77
high	2649.99	529998	80	RB_1_low	BPSK	23.90
high	2649.99	529998	80	RB_1_low	QPSK	22.37
high	2649.99	529998	80	RB_1_low	16QAM	21.77
high	2649.99	529998	80	RB_1_low	64QAM	21.16
high	2649.99	529998	80	RB_1_low	256QAM	18.71
high	2649.99	529998	80	RB_1_low+1	BPSK	23.42
high	2649.99	529998	80	RB_1_low+1	QPSK	23.47
high	2649.99	529998	80	RB_1_low+1	16QAM	22.54
high	2649.99	529998	80	RB_1_low+1	64QAM	20.93
high	2649.99	529998	80	RB_1_low+1	256QAM	18.91
high	2649.99	529998	80	RB_1_high-1	BPSK	23.80
high	2649.99	529998	80	RB_1_high-1	QPSK	23.70
high	2649.99	529998	80	RB_1_high-1	16QAM	22.30
high	2649.99	529998	80	RB_1_high-1	64QAM	22.94
high	2649.99	529998	80	RB_1_high-1	256QAM	20.78
high	2649.99	529998	80	RB_1_high	BPSK	23.90
high	2649.99	529998	80	RB_1_high	QPSK	23.90
high	2649.99	529998	80	RB_1_high	16QAM	23.86
high	2649.99	529998	80	RB_1_high	64QAM	22.30
high	2649.99	529998	80	RB_1_high	256QAM	20.79
high	2649.99	529998	80	RB_50%_mid	BPSK	23.00
high	2649.99	529998	80	RB_50%_mid	QPSK	23.00
high	2649.99	529998	80	RB_50%_mid	16QAM	22.10
high	2649.99	529998	80	RB_50%_mid	64QAM	21.83
high	2649.99	529998	80	RB_50%_mid	256QAM	19.73
high	2649.99	529998	80	RB_100%	BPSK	23.80
high	2649.99	529998	80	RB_100%	QPSK	23.17
high	2649.99	529998	80	RB_100%	16QAM	22.46
high	2649.99	529998	80	RB_100%	64QAM	21.90
high	2649.99	529998	80	RB_100%	256QAM	20.13

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2541	508200	90	RB_1_low	BPSK	20.86
low	2541	508200	90	RB_1_low	QPSK	20.45
low	2541	508200	90	RB_1_low	16QAM	19.52
low	2541	508200	90	RB_1_low	64QAM	18.94
low	2541	508200	90	RB_1_low	256QAM	16.87
low	2541	508200	90	RB_1_low+1	BPSK	21.42
low	2541	508200	90	RB_1_low+1	QPSK	21.46
low	2541	508200	90	RB_1_low+1	16QAM	20.29
low	2541	508200	90	RB_1_low+1	64QAM	18.68
low	2541	508200	90	RB_1_low+1	256QAM	17.00
low	2541	508200	90	RB_1_high-1	BPSK	22.14
low	2541	508200	90	RB_1_high-1	QPSK	22.23
low	2541	508200	90	RB_1_high-1	16QAM	21.16
low	2541	508200	90	RB_1_high-1	64QAM	19.80
low	2541	508200	90	RB_1_high-1	256QAM	17.84
low	2541	508200	90	RB_1_high	BPSK	22.29
low	2541	508200	90	RB_1_high	QPSK	22.26
low	2541	508200	90	RB_1_high	16QAM	21.18
low	2541	508200	90	RB_1_high	64QAM	19.55
low	2541	508200	90	RB_1_high	256QAM	17.70
low	2541	508200	90	RB_50%_mid	BPSK	21.64
low	2541	508200	90	RB_50%_mid	QPSK	21.80
low	2541	508200	90	RB_50%_mid	16QAM	20.74
low	2541	508200	90	RB_50%_mid	64QAM	19.05
low	2541	508200	90	RB_50%_mid	256QAM	17.30
low	2541	508200	90	RB_100%	BPSK	21.35
low	2541	508200	90	RB_100%	QPSK	20.80
low	2541	508200	90	RB_100%	16QAM	19.83
low	2541	508200	90	RB_100%	64QAM	19.63
low	2541	508200	90	RB_100%	256QAM	17.48
mid	2592.99	518598	90	RB_1_low	BPSK	22.60
mid	2592.99	518598	90	RB_1_low	QPSK	21.10
mid	2592.99	518598	90	RB_1_low	16QAM	19.82
mid	2592.99	518598	90	RB_1_low	64QAM	19.37
mid	2592.99	518598	90	RB_1_low	256QAM	17.48
mid	2592.99	518598	90	RB_1_low+1	BPSK	22.14
mid	2592.99	518598	90	RB_1_low+1	QPSK	22.46
mid	2592.99	518598	90	RB_1_low+1	16QAM	21.58
mid	2592.99	518598	90	RB_1_low+1	64QAM	19.64
mid	2592.99	518598	90	RB_1_low+1	256QAM	17.69
mid	2592.99	518598	90	RB_1_high-1	BPSK	23.67
mid	2592.99	518598	90	RB_1_high-1	QPSK	23.74
mid	2592.99	518598	90	RB_1_high-1	16QAM	22.96
mid	2592.99	518598	90	RB_1_high-1	64QAM	21.15
mid	2592.99	518598	90	RB_1_high-1	256QAM	18.79

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	2592.99	518598	90	RB_1_high	BPSK	23.76
mid	2592.99	518598	90	RB_1_high	QPSK	23.80
mid	2592.99	518598	90	RB_1_high	16QAM	22.80
mid	2592.99	518598	90	RB_1_high	64QAM	21.27
mid	2592.99	518598	90	RB_1_high	256QAM	19.49
mid	2592.99	518598	90	RB_50%_mid	BPSK	23.07
mid	2592.99	518598	90	RB_50%_mid	QPSK	22.86
mid	2592.99	518598	90	RB_50%_mid	16QAM	21.85
mid	2592.99	518598	90	RB_50%_mid	64QAM	20.67
mid	2592.99	518598	90	RB_50%_mid	256QAM	18.35
mid	2592.99	518598	90	RB_100%	BPSK	22.64
mid	2592.99	518598	90	RB_100%	QPSK	22.19
mid	2592.99	518598	90	RB_100%	16QAM	21.36
mid	2592.99	518598	90	RB_100%	64QAM	20.43
mid	2592.99	518598	90	RB_100%	256QAM	18.65
high	2644.98	528996	90	RB_1_low	BPSK	23.75
high	2644.98	528996	90	RB_1_low	QPSK	22.50
high	2644.98	528996	90	RB_1_low	16QAM	21.54
high	2644.98	528996	90	RB_1_low	64QAM	20.94
high	2644.98	528996	90	RB_1_low	256QAM	19.40
high	2644.98	528996	90	RB_1_low+1	BPSK	23.52
high	2644.98	528996	90	RB_1_low+1	QPSK	23.44
high	2644.98	528996	90	RB_1_low+1	16QAM	22.31
high	2644.98	528996	90	RB_1_low+1	64QAM	20.79
high	2644.98	528996	90	RB_1_low+1	256QAM	19.14
high	2644.98	528996	90	RB_1_high-1	BPSK	24.00
high	2644.98	528996	90	RB_1_high-1	QPSK	24.00
high	2644.98	528996	90	RB_1_high-1	16QAM	23.10
high	2644.98	528996	90	RB_1_high-1	64QAM	22.80
high	2644.98	528996	90	RB_1_high-1	256QAM	20.81
high	2644.98	528996	90	RB_1_high	BPSK	24.00
high	2644.98	528996	90	RB_1_high	QPSK	23.90
high	2644.98	528996	90	RB_1_high	16QAM	23.00
high	2644.98	528996	90	RB_1_high	64QAM	22.95
high	2644.98	528996	90	RB_1_high	256QAM	20.82
high	2644.98	528996	90	RB_50%_mid	BPSK	23.73
high	2644.98	528996	90	RB_50%_mid	QPSK	23.61
high	2644.98	528996	90	RB_50%_mid	16QAM	22.91
high	2644.98	528996	90	RB_50%_mid	64QAM	21.40
high	2644.98	528996	90	RB_50%_mid	256QAM	19.09
high	2644.98	528996	90	RB_100%	BPSK	23.56
high	2644.98	528996	90	RB_100%	QPSK	23.13
high	2644.98	528996	90	RB_100%	16QAM	22.09
high	2644.98	528996	90	RB_100%	64QAM	21.68
high	2644.98	528996	90	RB_100%	256QAM	19.55

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	2546.01	509202	100	RB_1_low	BPSK	20.81
low	2546.01	509202	100	RB_1_low	QPSK	20.28
low	2546.01	509202	100	RB_1_low	16QAM	19.54
low	2546.01	509202	100	RB_1_low	64QAM	18.74
low	2546.01	509202	100	RB_1_low	256QAM	16.91
low	2546.01	509202	100	RB_1_low+1	BPSK	21.47
low	2546.01	509202	100	RB_1_low+1	QPSK	21.44
low	2546.01	509202	100	RB_1_low+1	16QAM	20.15
low	2546.01	509202	100	RB_1_low+1	64QAM	18.62
low	2546.01	509202	100	RB_1_low+1	256QAM	16.62
low	2546.01	509202	100	RB_1_high-1	BPSK	22.20
low	2546.01	509202	100	RB_1_high-1	QPSK	22.00
low	2546.01	509202	100	RB_1_high-1	16QAM	21.03
low	2546.01	509202	100	RB_1_high-1	64QAM	19.79
low	2546.01	509202	100	RB_1_high-1	256QAM	17.86
low	2546.01	509202	100	RB_1_high	BPSK	22.18
low	**2546.01**	**509202**	**100**	**RB_1_high**	**QPSK**	**22.24**
low	2546.01	509202	100	RB_1_high	16QAM	21.21
low	2546.01	509202	100	RB_1_high	64QAM	19.50
low	2546.01	509202	100	RB_1_high	256QAM	17.97
low	2546.01	509202	100	RB_50%_mid	BPSK	22.07
low	2546.01	509202	100	RB_50%_mid	QPSK	21.89
low	2546.01	509202	100	RB_50%_mid	16QAM	21.11
low	2546.01	509202	100	RB_50%_mid	64QAM	19.36
low	2546.01	509202	100	RB_50%_mid	256QAM	17.46
low	2546.01	509202	100	RB_100%	BPSK	21.42
low	2546.01	509202	100	RB_100%	QPSK	20.98
low	2546.01	509202	100	RB_100%	16QAM	19.95
low	2546.01	509202	100	RB_100%	64QAM	19.41
low	2546.01	509202	100	RB_100%	256QAM	17.31
mid	2592.99	518598	100	RB_1_low	BPSK	22.66
mid	2592.99	518598	100	RB_1_low	QPSK	21.18
mid	2592.99	518598	100	RB_1_low	16QAM	20.35
mid	2592.99	518598	100	RB_1_low	64QAM	19.70
mid	2592.99	518598	100	RB_1_low	256QAM	17.59
mid	2592.99	518598	100	RB_1_low+1	BPSK	22.21
mid	2592.99	518598	100	RB_1_low+1	QPSK	22.13
mid	2592.99	518598	100	RB_1_low+1	16QAM	21.21
mid	2592.99	518598	100	RB_1_low+1	64QAM	19.22
mid	2592.99	518598	100	RB_1_low+1	256QAM	17.72
mid	2592.99	518598	100	RB_1_high-1	BPSK	23.88
mid	**2592.99**	**518598**	**100**	**RB_1_high-1**	**QPSK**	**23.91**
mid	2592.99	518598	100	RB_1_high-1	16QAM	22.91
mid	2592.99	518598	100	RB_1_high-1	64QAM	21.32
mid	2592.99	518598	100	RB_1_high-1	256QAM	19.49

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	2592.99	518598	100	RB_1_high	BPSK	23.82
mid	2592.99	518598	100	RB_1_high	QPSK	23.74
mid	2592.99	518598	100	RB_1_high	16QAM	23.00
mid	2592.99	518598	100	RB_1_high	64QAM	21.49
mid	2592.99	518598	100	RB_1_high	256QAM	19.42
mid	2592.99	518598	100	RB_50%_mid	BPSK	23.14
mid	2592.99	518598	100	RB_50%_mid	QPSK	23.05
mid	2592.99	518598	100	RB_50%_mid	16QAM	22.30
mid	2592.99	518598	100	RB_50%_mid	64QAM	20.77
mid	2592.99	518598	100	RB_50%_mid	256QAM	18.80
mid	2592.99	518598	100	RB_100%	BPSK	22.83
mid	2592.99	518598	100	RB_100%	QPSK	22.24
mid	2592.99	518598	100	RB_100%	16QAM	21.21
mid	2592.99	518598	100	RB_100%	64QAM	20.87
mid	2592.99	518598	100	RB_100%	256QAM	18.61
high	2640	528000	100	RB_1_low	BPSK	23.63
high	2640	528000	100	RB_1_low	QPSK	22.21
high	2640	528000	100	RB_1_low	16QAM	21.27
high	2640	528000	100	RB_1_low	64QAM	20.43
high	2640	528000	100	RB_1_low	256QAM	18.24
high	2640	528000	100	RB_1_low+1	BPSK	23.00
high	2640	528000	100	RB_1_low+1	QPSK	23.18
high	2640	528000	100	RB_1_low+1	16QAM	21.83
high	2640	528000	100	RB_1_low+1	64QAM	20.34
high	2640	528000	100	RB_1_low+1	256QAM	18.65
high	2640	528000	100	RB_1_high-1	BPSK	24.00
high	2640	528000	100	RB_1_high-1	QPSK	24.00
high	2640	528000	100	RB_1_high-1	16QAM	23.10
high	2640	528000	100	RB_1_high-1	64QAM	22.74
high	2640	528000	100	RB_1_high-1	256QAM	20.88
high	2640	528000	100	RB_1_high	BPSK	24.00
high	**2640**	**528000**	**100**	**RB_1_high**	**QPSK**	**24.00**
high	2640	528000	100	RB_1_high	16QAM	22.90
high	2640	528000	100	RB_1_high	64QAM	22.59
high	2640	528000	100	RB_1_high	256QAM	20.61
high	2640	528000	100	RB_50%_mid	BPSK	23.30
high	**2640**	**528000**	**100**	**RB_50%_mid**	**QPSK**	**23.60**
high	2640	528000	100	RB_50%_mid	16QAM	23.17
high	2640	528000	100	RB_50%_mid	64QAM	21.41
high	2640	528000	100	RB_50%_mid	256QAM	19.46
high	2640	528000	100	RB_100%	BPSK	23.59
high	2640	528000	100	RB_100%	QPSK	23.07
high	2640	528000	100	RB_100%	16QAM	22.05
high	2640	528000	100	RB_100%	64QAM	21.52
high	2640	528000	100	RB_100%	256QAM	19.73

Table 31: Test results conducted power measurement 5G NR TDD n41 2600 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1712.5	342500	5	RB_1_low	BPSK	22.49
low	1712.5	342500	5	RB_1_low	QPSK	21.97
low	1712.5	342500	5	RB_1_low	16QAM	21.36
low	1712.5	342500	5	RB_1_low	64QAM	20.98
low	1712.5	342500	5	RB_1_low	256QAM	18.67
low	1712.5	342500	5	RB_1_low+1	BPSK	23.06
low	1712.5	342500	5	RB_1_low+1	QPSK	23.07
low	1712.5	342500	5	RB_1_low+1	16QAM	22.45
low	1712.5	342500	5	RB_1_low+1	64QAM	20.73
low	1712.5	342500	5	RB_1_low+1	256QAM	18.52
low	1712.5	342500	5	RB_1_high-1	BPSK	22.97
low	1712.5	342500	5	RB_1_high-1	QPSK	23.03
low	1712.5	342500	5	RB_1_high-1	16QAM	22.16
low	1712.5	342500	5	RB_1_high-1	64QAM	20.66
low	1712.5	342500	5	RB_1_high-1	256QAM	18.81
low	1712.5	342500	5	RB_1_high	BPSK	22.73
low	1712.5	342500	5	RB_1_high	QPSK	22.09
low	1712.5	342500	5	RB_1_high	16QAM	21.22
low	1712.5	342500	5	RB_1_high	64QAM	20.63
low	1712.5	342500	5	RB_1_high	256QAM	18.98
low	1712.5	342500	5	RB_50%_mid	BPSK	23.08
low	1712.5	342500	5	RB_50%_mid	QPSK	23.15
low	1712.5	342500	5	RB_50%_mid	16QAM	22.17
low	1712.5	342500	5	RB_50%_mid	64QAM	20.53
low	1712.5	342500	5	RB_50%_mid	256QAM	18.60
low	1712.5	342500	5	RB_100%	BPSK	22.67
low	1712.5	342500	5	RB_100%	QPSK	22.14
low	1712.5	342500	5	RB_100%	16QAM	21.07
low	1712.5	342500	5	RB_100%	64QAM	20.59
low	1712.5	342500	5	RB_100%	256QAM	18.58
mid	1745	349000	5	RB_1_low	BPSK	22.50
mid	1745	349000	5	RB_1_low	QPSK	22.02
mid	1745	349000	5	RB_1_low	16QAM	21.05
mid	1745	349000	5	RB_1_low	64QAM	20.61
mid	1745	349000	5	RB_1_low	256QAM	18.35
mid	1745	349000	5	RB_1_low+1	BPSK	19.31
mid	1745	349000	5	RB_1_low+1	QPSK	23.13
mid	1745	349000	5	RB_1_low+1	16QAM	22.31
mid	1745	349000	5	RB_1_low+1	64QAM	20.56
mid	1745	349000	5	RB_1_low+1	256QAM	18.87
mid	1745	349000	5	RB_1_high-1	BPSK	22.88
mid	1745	349000	5	RB_1_high-1	QPSK	23.18
mid	1745	349000	5	RB_1_high-1	16QAM	21.99
mid	1745	349000	5	RB_1_high-1	64QAM	20.84
mid	1745	349000	5	RB_1_high-1	256QAM	18.63

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1745	349000	5	RB_1_high	BPSK	22.39
mid	1745	349000	5	RB_1_high	QPSK	21.94
mid	1745	349000	5	RB_1_high	16QAM	20.97
mid	1745	349000	5	RB_1_high	64QAM	20.35
mid	1745	349000	5	RB_1_high	256QAM	18.55
mid	1745	349000	5	RB_50%_mid	BPSK	22.56
mid	1745	349000	5	RB_50%_mid	QPSK	23.01
mid	1745	349000	5	RB_50%_mid	16QAM	22.03
mid	1745	349000	5	RB_50%_mid	64QAM	20.60
mid	1745	349000	5	RB_50%_mid	256QAM	18.51
mid	1745	349000	5	RB_100%	BPSK	22.49
mid	1745	349000	5	RB_100%	QPSK	21.98
mid	1745	349000	5	RB_100%	16QAM	21.05
mid	1745	349000	5	RB_100%	64QAM	20.56
mid	1745	349000	5	RB_100%	256QAM	18.53
high	1777.5	355500	5	RB_1_low	BPSK	22.59
high	1777.5	355500	5	RB_1_low	QPSK	21.99
high	1777.5	355500	5	RB_1_low	16QAM	21.13
high	1777.5	355500	5	RB_1_low	64QAM	20.81
high	1777.5	355500	5	RB_1_low	256QAM	18.76
high	1777.5	355500	5	RB_1_low+1	BPSK	22.95
high	1777.5	355500	5	RB_1_low+1	QPSK	23.05
high	1777.5	355500	5	RB_1_low+1	16QAM	22.53
high	1777.5	355500	5	RB_1_low+1	64QAM	20.80
high	1777.5	355500	5	RB_1_low+1	256QAM	18.88
high	1777.5	355500	5	RB_1_high-1	BPSK	23.26
high	1777.5	355500	5	RB_1_high-1	QPSK	23.24
high	1777.5	355500	5	RB_1_high-1	16QAM	22.22
high	1777.5	355500	5	RB_1_high-1	64QAM	20.80
high	1777.5	355500	5	RB_1_high-1	256QAM	18.97
high	1777.5	355500	5	RB_1_high	BPSK	22.59
high	1777.5	355500	5	RB_1_high	QPSK	22.10
high	1777.5	355500	5	RB_1_high	16QAM	21.25
high	1777.5	355500	5	RB_1_high	64QAM	20.74
high	1777.5	355500	5	RB_1_high	256QAM	18.90
high	1777.5	355500	5	RB_50%_mid	BPSK	23.19
high	1777.5	355500	5	RB_50%_mid	QPSK	23.15
high	1777.5	355500	5	RB_50%_mid	16QAM	22.19
high	1777.5	355500	5	RB_50%_mid	64QAM	20.61
high	1777.5	355500	5	RB_50%_mid	256QAM	18.63
high	1777.5	355500	5	RB_100%	BPSK	22.65
high	1777.5	355500	5	RB_100%	QPSK	22.19
high	1777.5	355500	5	RB_100%	16QAM	21.22
high	1777.5	355500	5	RB_100%	64QAM	20.65
high	1777.5	355500	5	RB_100%	256QAM	18.71

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1715	343000	10	RB_1_low	BPSK	22.42
low	1715	343000	10	RB_1_low	QPSK	21.90
low	1715	343000	10	RB_1_low	16QAM	21.03
low	1715	343000	10	RB_1_low	64QAM	20.43
low	1715	343000	10	RB_1_low	256QAM	18.36
low	1715	343000	10	RB_1_low+1	BPSK	22.78
low	1715	343000	10	RB_1_low+1	QPSK	23.00
low	1715	343000	10	RB_1_low+1	16QAM	22.27
low	1715	343000	10	RB_1_low+1	64QAM	20.46
low	1715	343000	10	RB_1_low+1	256QAM	18.60
low	1715	343000	10	RB_1_high-1	BPSK	22.70
low	1715	343000	10	RB_1_high-1	QPSK	22.65
low	1715	343000	10	RB_1_high-1	16QAM	22.17
low	1715	343000	10	RB_1_high-1	64QAM	20.58
low	1715	343000	10	RB_1_high-1	256QAM	18.12
low	1715	343000	10	RB_1_high	BPSK	22.69
low	1715	343000	10	RB_1_high	QPSK	22.95
low	1715	343000	10	RB_1_high	16QAM	21.97
low	1715	343000	10	RB_1_high	64QAM	20.34
low	1715	343000	10	RB_1_high	256QAM	18.31
low	1715	343000	10	RB_50%_mid	BPSK	22.86
low	1715	343000	10	RB_50%_mid	QPSK	22.94
low	1715	343000	10	RB_50%_mid	16QAM	21.89
low	1715	343000	10	RB_50%_mid	64QAM	20.42
low	1715	343000	10	RB_50%_mid	256QAM	18.45
low	1715	343000	10	RB_100%	BPSK	22.44
low	1715	343000	10	RB_100%	QPSK	21.96
low	1715	343000	10	RB_100%	16QAM	20.85
low	1715	343000	10	RB_100%	64QAM	20.41
low	1715	343000	10	RB_100%	256QAM	18.35
mid	1745	349000	10	RB_1_low	BPSK	22.38
mid	1745	349000	10	RB_1_low	QPSK	21.91
mid	1745	349000	10	RB_1_low	16QAM	21.27
mid	1745	349000	10	RB_1_low	64QAM	20.44
mid	1745	349000	10	RB_1_low	256QAM	18.59
mid	1745	349000	10	RB_1_low+1	BPSK	22.93
mid	1745	349000	10	RB_1_low+1	QPSK	23.05
mid	1745	349000	10	RB_1_low+1	16QAM	22.08
mid	1745	349000	10	RB_1_low+1	64QAM	20.55
mid	1745	349000	10	RB_1_low+1	256QAM	18.59
mid	1745	349000	10	RB_1_high-1	BPSK	22.84
mid	1745	349000	10	RB_1_high-1	QPSK	23.02
mid	1745	349000	10	RB_1_high-1	16QAM	21.72
mid	1745	349000	10	RB_1_high-1	64QAM	20.58
mid	1745	349000	10	RB_1_high-1	256QAM	18.78

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1745	349000	10	RB_1_high	BPSK	22.94
mid	1745	349000	10	RB_1_high	QPSK	23.01
mid	1745	349000	10	RB_1_high	16QAM	22.02
mid	1745	349000	10	RB_1_high	64QAM	20.64
mid	1745	349000	10	RB_1_high	256QAM	18.72
mid	1745	349000	10	RB_50%_mid	BPSK	23.06
mid	1745	349000	10	RB_50%_mid	QPSK	23.09
mid	1745	349000	10	RB_50%_mid	16QAM	22.08
mid	1745	349000	10	RB_50%_mid	64QAM	20.53
mid	1745	349000	10	RB_50%_mid	256QAM	18.53
mid	1745	349000	10	RB_100%	BPSK	22.57
mid	1745	349000	10	RB_100%	QPSK	22.04
mid	1745	349000	10	RB_100%	16QAM	21.08
mid	1745	349000	10	RB_100%	64QAM	20.51
mid	1745	349000	10	RB_100%	256QAM	18.50
high	1775	355000	10	RB_1_low	BPSK	22.60
high	1775	355000	10	RB_1_low	QPSK	22.17
high	1775	355000	10	RB_1_low	16QAM	21.45
high	1775	355000	10	RB_1_low	64QAM	20.64
high	1775	355000	10	RB_1_low	256QAM	18.73
high	1775	355000	10	RB_1_low+1	BPSK	22.96
high	1775	355000	10	RB_1_low+1	QPSK	23.08
high	1775	355000	10	RB_1_low+1	16QAM	22.12
high	1775	355000	10	RB_1_low+1	64QAM	20.72
high	1775	355000	10	RB_1_low+1	256QAM	18.85
high	1775	355000	10	RB_1_high-1	BPSK	23.15
high	1775	355000	10	RB_1_high-1	QPSK	23.25
high	1775	355000	10	RB_1_high-1	16QAM	22.21
high	1775	355000	10	RB_1_high-1	64QAM	20.73
high	1775	355000	10	RB_1_high-1	256QAM	18.84
high	1775	355000	10	RB_1_high	BPSK	22.98
high	1775	355000	10	RB_1_high	QPSK	23.23
high	1775	355000	10	RB_1_high	16QAM	21.96
high	1775	355000	10	RB_1_high	64QAM	20.66
high	1775	355000	10	RB_1_high	256QAM	19.11
high	1775	355000	10	RB_50%_mid	BPSK	23.07
high	1775	355000	10	RB_50%_mid	QPSK	23.08
high	1775	355000	10	RB_50%_mid	16QAM	22.15
high	1775	355000	10	RB_50%_mid	64QAM	20.60
high	1775	355000	10	RB_50%_mid	256QAM	18.68
high	1775	355000	10	RB_100%	BPSK	22.61
high	1775	355000	10	RB_100%	QPSK	22.07
high	1775	355000	10	RB_100%	16QAM	21.17
high	1775	355000	10	RB_100%	64QAM	20.58
high	1775	355000	10	RB_100%	256QAM	18.62

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1717.5	343500	15	RB_1_low	BPSK	22.32
low	1717.5	343500	15	RB_1_low	QPSK	22.05
low	1717.5	343500	15	RB_1_low	16QAM	21.12
low	1717.5	343500	15	RB_1_low	64QAM	20.74
low	1717.5	343500	15	RB_1_low	256QAM	18.86
low	1717.5	343500	15	RB_1_low+1	BPSK	23.19
low	1717.5	343500	15	RB_1_low+1	QPSK	23.01
low	1717.5	343500	15	RB_1_low+1	16QAM	22.18
low	1717.5	343500	15	RB_1_low+1	64QAM	20.78
low	1717.5	343500	15	RB_1_low+1	256QAM	18.52
low	1717.5	343500	15	RB_1_high-1	BPSK	22.65
low	1717.5	343500	15	RB_1_high-1	QPSK	22.77
low	1717.5	343500	15	RB_1_high-1	16QAM	21.72
low	1717.5	343500	15	RB_1_high-1	64QAM	20.09
low	1717.5	343500	15	RB_1_high-1	256QAM	18.46
low	1717.5	343500	15	RB_1_high	BPSK	22.68
low	1717.5	343500	15	RB_1_high	QPSK	22.93
low	1717.5	343500	15	RB_1_high	16QAM	21.83
low	1717.5	343500	15	RB_1_high	64QAM	20.25
low	1717.5	343500	15	RB_1_high	256QAM	18.58
low	1717.5	343500	15	RB_50%_mid	BPSK	23.02
low	1717.5	343500	15	RB_50%_mid	QPSK	23.07
low	1717.5	343500	15	RB_50%_mid	16QAM	21.96
low	1717.5	343500	15	RB_50%_mid	64QAM	20.79
low	1717.5	343500	15	RB_50%_mid	256QAM	18.77
low	1717.5	343500	15	RB_100%	BPSK	22.44
low	1717.5	343500	15	RB_100%	QPSK	21.90
low	1717.5	343500	15	RB_100%	16QAM	20.84
low	1717.5	343500	15	RB_100%	64QAM	20.47
low	1717.5	343500	15	RB_100%	256QAM	18.46
mid	1745	349000	15	RB_1_low	BPSK	22.48
mid	1745	349000	15	RB_1_low	QPSK	22.37
mid	1745	349000	15	RB_1_low	16QAM	21.42
mid	1745	349000	15	RB_1_low	64QAM	21.14
mid	1745	349000	15	RB_1_low	256QAM	18.63
mid	1745	349000	15	RB_1_low+1	BPSK	**23.13**
mid	1745	349000	15	RB_1_low+1	QPSK	**23.32**
mid	1745	349000	15	RB_1_low+1	16QAM	22.56
mid	1745	349000	15	RB_1_low+1	64QAM	21.14
mid	1745	349000	15	RB_1_low+1	256QAM	19.08
mid	1745	349000	15	RB_1_high-1	BPSK	22.87
mid	1745	349000	15	RB_1_high-1	QPSK	22.91
mid	1745	349000	15	RB_1_high-1	16QAM	22.08
mid	1745	349000	15	RB_1_high-1	64QAM	20.43
mid	1745	349000	15	RB_1_high-1	256QAM	18.63

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1745	349000	15	RB_1_high	BPSK	22.77
mid	1745	349000	15	RB_1_high	QPSK	22.88
mid	1745	349000	15	RB_1_high	16QAM	21.98
mid	1745	349000	15	RB_1_high	64QAM	20.73
mid	1745	349000	15	RB_1_high	256QAM	18.64
mid	1745	349000	15	RB_50%_mid	BPSK	23.01
mid	1745	349000	15	RB_50%_mid	QPSK	23.10
mid	1745	349000	15	RB_50%_mid	16QAM	22.15
mid	1745	349000	15	RB_50%_mid	64QAM	20.93
mid	1745	349000	15	RB_50%_mid	256QAM	19.17
mid	1745	349000	15	RB_100%	BPSK	22.53
mid	1745	349000	15	RB_100%	QPSK	22.05
mid	1745	349000	15	RB_100%	16QAM	21.04
mid	1745	349000	15	RB_100%	64QAM	20.53
mid	1745	349000	15	RB_100%	256QAM	18.54
high	1772.5	354500	15	RB_1_low	BPSK	22.43
high	1772.5	354500	15	RB_1_low	QPSK	21.98
high	1772.5	354500	15	RB_1_low	16QAM	21.45
high	1772.5	354500	15	RB_1_low	64QAM	20.75
high	1772.5	354500	15	RB_1_low	256QAM	18.84
high	1772.5	354500	15	RB_1_low+1	BPSK	22.99
high	1772.5	354500	15	RB_1_low+1	QPSK	23.08
high	1772.5	354500	15	RB_1_low+1	16QAM	21.88
high	1772.5	354500	15	RB_1_low+1	64QAM	20.78
high	1772.5	354500	15	RB_1_low+1	256QAM	18.89
high	1772.5	354500	15	RB_1_high-1	BPSK	22.88
high	1772.5	354500	15	RB_1_high-1	QPSK	22.99
high	1772.5	354500	15	RB_1_high-1	16QAM	22.14
high	1772.5	354500	15	RB_1_high-1	64QAM	21.08
high	1772.5	354500	15	RB_1_high-1	256QAM	18.82
high	1772.5	354500	15	RB_1_high	BPSK	22.85
high	1772.5	354500	15	RB_1_high	QPSK	23.04
high	1772.5	354500	15	RB_1_high	16QAM	22.10
high	1772.5	354500	15	RB_1_high	64QAM	20.63
high	1772.5	354500	15	RB_1_high	256QAM	18.64
high	1772.5	354500	15	RB_50%_mid	BPSK	22.98
high	1772.5	354500	15	RB_50%_mid	QPSK	23.07
high	1772.5	354500	15	RB_50%_mid	16QAM	22.15
high	1772.5	354500	15	RB_50%_mid	64QAM	20.49
high	1772.5	354500	15	RB_50%_mid	256QAM	18.39
high	1772.5	354500	15	RB_100%	BPSK	22.49
high	1772.5	354500	15	RB_100%	QPSK	22.00
high	1772.5	354500	15	RB_100%	16QAM	21.03
high	1772.5	354500	15	RB_100%	64QAM	20.57
high	1772.5	354500	15	RB_100%	256QAM	18.56

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1720	344000	20	RB_1_low	BPSK	22.46
low	1720	344000	20	RB_1_low	QPSK	22.14
low	1720	344000	20	RB_1_low	16QAM	21.05
low	1720	344000	20	RB_1_low	64QAM	20.79
low	1720	344000	20	RB_1_low	256QAM	18.57
low	**1720**	**344000**	**20**	**RB_1_low+1**	**BPSK**	**23.07**
low	1720	344000	20	RB_1_low+1	QPSK	23.02
low	1720	344000	20	RB_1_low+1	16QAM	22.24
low	1720	344000	20	RB_1_low+1	64QAM	20.84
low	1720	344000	20	RB_1_low+1	256QAM	19.04
low	1720	344000	20	RB_1_high-1	BPSK	22.75
low	1720	344000	20	RB_1_high-1	QPSK	22.85
low	1720	344000	20	RB_1_high-1	16QAM	21.97
low	1720	344000	20	RB_1_high-1	64QAM	20.36
low	1720	344000	20	RB_1_high-1	256QAM	18.45
low	1720	344000	20	RB_1_high	BPSK	22.78
low	1720	344000	20	RB_1_high	QPSK	22.79
low	1720	344000	20	RB_1_high	16QAM	21.97
low	1720	344000	20	RB_1_high	64QAM	20.70
low	1720	344000	20	RB_1_high	256QAM	18.80
low	1720	344000	20	RB_50%_mid	BPSK	23.00
low	1720	344000	20	RB_50%_mid	QPSK	23.05
low	1720	344000	20	RB_50%_mid	16QAM	22.04
low	1720	344000	20	RB_50%_mid	64QAM	20.56
low	1720	344000	20	RB_50%_mid	256QAM	18.58
low	1720	344000	20	RB_100%	BPSK	22.58
low	1720	344000	20	RB_100%	QPSK	22.08
low	1720	344000	20	RB_100%	16QAM	21.06
low	1720	344000	20	RB_100%	64QAM	20.56
low	1720	344000	20	RB_100%	256QAM	18.51
mid	1745	349000	20	RB_1_low	BPSK	22.54
mid	1745	349000	20	RB_1_low	QPSK	22.05
mid	1745	349000	20	RB_1_low	16QAM	21.17
mid	1745	349000	20	RB_1_low	64QAM	20.66
mid	1745	349000	20	RB_1_low	256QAM	18.86
mid	1745	349000	20	RB_1_low+1	BPSK	22.99
mid	**1745**	**349000**	**20**	**RB_1_low+1**	**QPSK**	**23.10**
mid	1745	349000	20	RB_1_low+1	16QAM	22.47
mid	1745	349000	20	RB_1_low+1	64QAM	20.81
mid	1745	349000	20	RB_1_low+1	256QAM	18.72
mid	1745	349000	20	RB_1_high-1	BPSK	22.92
mid	1745	349000	20	RB_1_high-1	QPSK	22.99
mid	1745	349000	20	RB_1_high-1	16QAM	21.99
mid	1745	349000	20	RB_1_high-1	64QAM	20.62
mid	1745	349000	20	RB_1_high-1	256QAM	18.57

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1745	349000	20	RB_1_high	BPSK	22.88
mid	1745	349000	20	RB_1_high	QPSK	22.99
mid	1745	349000	20	RB_1_high	16QAM	22.13
mid	1745	349000	20	RB_1_high	64QAM	20.45
mid	1745	349000	20	RB_1_high	256QAM	18.81
mid	1745	349000	20	RB_50%_mid	BPSK	23.05
mid	1745	349000	20	RB_50%_mid	QPSK	23.08
mid	1745	349000	20	RB_50%_mid	16QAM	22.05
mid	1745	349000	20	RB_50%_mid	64QAM	20.52
mid	1745	349000	20	RB_50%_mid	256QAM	18.52
mid	1745	349000	20	RB_100%	BPSK	22.59
mid	1745	349000	20	RB_100%	QPSK	22.04
mid	1745	349000	20	RB_100%	16QAM	21.15
mid	1745	349000	20	RB_100%	64QAM	20.60
mid	1745	349000	20	RB_100%	256QAM	18.59
high	1770	354000	20	RB_1_low	BPSK	22.62
high	1770	354000	20	RB_1_low	QPSK	21.98
high	1770	354000	20	RB_1_low	16QAM	21.19
high	1770	354000	20	RB_1_low	64QAM	20.78
high	1770	354000	20	RB_1_low	256QAM	18.69
high	1770	354000	20	RB_1_low+1	BPSK	22.95
high	**1770**	**354000**	**20**	**RB_1_low+1**	**QPSK**	**23.04**
high	1770	354000	20	RB_1_low+1	16QAM	22.33
high	1770	354000	20	RB_1_low+1	64QAM	20.86
high	1770	354000	20	RB_1_low+1	256QAM	18.49
high	1770	354000	20	RB_1_high-1	BPSK	22.95
high	1770	354000	20	RB_1_high-1	QPSK	22.96
high	1770	354000	20	RB_1_high-1	16QAM	22.04
high	1770	354000	20	RB_1_high-1	64QAM	20.41
high	1770	354000	20	RB_1_high-1	256QAM	18.60
high	1770	354000	20	RB_1_high	BPSK	23.01
high	1770	354000	20	RB_1_high	QPSK	22.88
high	1770	354000	20	RB_1_high	16QAM	22.06
high	1770	354000	20	RB_1_high	64QAM	20.63
high	1770	354000	20	RB_1_high	256QAM	18.55
high	1770	354000	20	RB_50%_mid	BPSK	23.05
high	**1770**	**354000**	**20**	**RB_50%_mid**	**QPSK**	**23.16**
high	1770	354000	20	RB_50%_mid	16QAM	21.98
high	1770	354000	20	RB_50%_mid	64QAM	20.57
high	1770	354000	20	RB_50%_mid	256QAM	18.58
high	1770	354000	20	RB_100%	BPSK	22.55
high	1770	354000	20	RB_100%	QPSK	22.06
high	1770	354000	20	RB_100%	16QAM	21.11
high	1770	354000	20	RB_100%	64QAM	20.57
high	1770	354000	20	RB_100%	256QAM	18.61

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	1730	346000	40	RB_1_low	BPSK	19.74
low	1730	346000	40	RB_1_low	QPSK	19.24
low	1730	346000	40	RB_1_low	16QAM	18.26
low	1730	346000	40	RB_1_low	64QAM	17.76
low	1730	346000	40	RB_1_low	256QAM	15.92
low	1730	346000	40	RB_1_low+1	BPSK	20.24
low	1730	346000	40	RB_1_low+1	QPSK	20.25
low	1730	346000	40	RB_1_low+1	16QAM	19.38
low	1730	346000	40	RB_1_low+1	64QAM	18.01
low	1730	346000	40	RB_1_low+1	256QAM	16.00
low	1730	346000	40	RB_1_high-1	BPSK	20.20
low	1730	346000	40	RB_1_high-1	QPSK	20.17
low	1730	346000	40	RB_1_high-1	16QAM	19.41
low	1730	346000	40	RB_1_high-1	64QAM	17.92
low	1730	346000	40	RB_1_high-1	256QAM	16.00
low	1730	346000	40	RB_1_high	BPSK	19.71
low	1730	346000	40	RB_1_high	QPSK	19.26
low	1730	346000	40	RB_1_high	16QAM	18.40
low	1730	346000	40	RB_1_high	64QAM	17.91
low	1730	346000	40	RB_1_high	256QAM	16.11
low	1730	346000	40	RB_50%_mid	BPSK	20.21
low	1730	346000	40	RB_50%_mid	QPSK	20.24
low	1730	346000	40	RB_50%_mid	16QAM	19.26
low	1730	346000	40	RB_50%_mid	64QAM	17.80
low	1730	346000	40	RB_50%_mid	256QAM	15.73
low	1730	346000	40	RB_100%	BPSK	19.69
low	1730	346000	40	RB_100%	QPSK	19.32
low	1730	346000	40	RB_100%	16QAM	18.33
low	1730	346000	40	RB_100%	64QAM	17.79
low	1730	346000	40	RB_100%	256QAM	15.73
mid	1745	349000	40	RB_1_low	BPSK	19.64
mid	1745	349000	40	RB_1_low	QPSK	19.17
mid	1745	349000	40	RB_1_low	16QAM	18.18
mid	1745	349000	40	RB_1_low	64QAM	17.56
mid	1745	349000	40	RB_1_low	256QAM	15.87
mid	1745	349000	40	RB_1_low+1	BPSK	20.12
mid	1745	349000	40	RB_1_low+1	QPSK	20.35
mid	1745	349000	40	RB_1_low+1	16QAM	19.11
mid	1745	349000	40	RB_1_low+1	64QAM	17.97
mid	1745	349000	40	RB_1_low+1	256QAM	15.69
mid	1745	349000	40	RB_1_high-1	BPSK	20.09
mid	1745	349000	40	RB_1_high-1	QPSK	19.97
mid	1745	349000	40	RB_1_high-1	16QAM	18.76
mid	1745	349000	40	RB_1_high-1	64QAM	17.58
mid	1745	349000	40	RB_1_high-1	256QAM	15.85

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	1745	349000	40	RB_1_high	BPSK	19.57
mid	1745	349000	40	RB_1_high	QPSK	19.02
mid	1745	349000	40	RB_1_high	16QAM	18.12
mid	1745	349000	40	RB_1_high	64QAM	17.43
mid	1745	349000	40	RB_1_high	256QAM	15.68
mid	1745	349000	40	RB_50%_mid	BPSK	20.18
mid	1745	349000	40	RB_50%_mid	QPSK	20.19
mid	1745	349000	40	RB_50%_mid	16QAM	19.19
mid	1745	349000	40	RB_50%_mid	64QAM	17.73
mid	1745	349000	40	RB_50%_mid	256QAM	15.73
mid	1745	349000	40	RB_100%	BPSK	19.78
mid	1745	349000	40	RB_100%	QPSK	19.21
mid	1745	349000	40	RB_100%	16QAM	18.28
mid	1745	349000	40	RB_100%	64QAM	17.81
mid	1745	349000	40	RB_100%	256QAM	15.80
high	1760	352000	40	RB_1_low	BPSK	19.82
high	1760	352000	40	RB_1_low	QPSK	19.42
high	1760	352000	40	RB_1_low	16QAM	18.34
high	1760	352000	40	RB_1_low	64QAM	18.01
high	1760	352000	40	RB_1_low	256QAM	15.73
high	1760	352000	40	RB_1_low+1	BPSK	20.26
high	1760	352000	40	RB_1_low+1	QPSK	20.41
high	1760	352000	40	RB_1_low+1	16QAM	19.35
high	1760	352000	40	RB_1_low+1	64QAM	17.99
high	1760	352000	40	RB_1_low+1	256QAM	15.83
high	1760	352000	40	RB_1_high-1	BPSK	20.53
high	1760	352000	40	RB_1_high-1	QPSK	20.60
high	1760	352000	40	RB_1_high-1	16QAM	19.67
high	1760	352000	40	RB_1_high-1	64QAM	18.18
high	1760	352000	40	RB_1_high-1	256QAM	15.93
high	1760	352000	40	RB_1_high	BPSK	19.92
high	1760	352000	40	RB_1_high	QPSK	19.54
high	1760	352000	40	RB_1_high	16QAM	18.96
high	1760	352000	40	RB_1_high	64QAM	18.07
high	1760	352000	40	RB_1_high	256QAM	15.98
high	1760	352000	40	RB_50%_mid	BPSK	20.08
high	1760	352000	40	RB_50%_mid	QPSK	20.11
high	1760	352000	40	RB_50%_mid	16QAM	19.11
high	1760	352000	40	RB_50%_mid	64QAM	17.55
high	1760	352000	40	RB_50%_mid	256QAM	15.52
high	1760	352000	40	RB_100%	BPSK	19.67
high	1760	352000	40	RB_100%	QPSK	19.20
high	1760	352000	40	RB_100%	16QAM	18.28
high	1760	352000	40	RB_100%	64QAM	17.69
high	1760	352000	40	RB_100%	256QAM	15.78

Table 32: Test results conducted power measurement 5G NR FDD n66 1750 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	665.5	133100	5	RB_1_low	BPSK	22.14
low	665.5	133100	5	RB_1_low	QPSK	21.67
low	665.5	133100	5	RB_1_low	16QAM	20.55
low	665.5	133100	5	RB_1_low	64QAM	20.27
low	665.5	133100	5	RB_1_low	256QAM	18.28
low	665.5	133100	5	RB_1_low+1	BPSK	22.55
low	665.5	133100	5	RB_1_low+1	QPSK	22.61
low	665.5	133100	5	RB_1_low+1	16QAM	21.58
low	665.5	133100	5	RB_1_low+1	64QAM	20.85
low	665.5	133100	5	RB_1_low+1	256QAM	18.13
low	665.5	133100	5	RB_1_high-1	BPSK	22.49
low	665.5	133100	5	RB_1_high-1	QPSK	22.95
low	665.5	133100	5	RB_1_high-1	16QAM	21.49
low	665.5	133100	5	RB_1_high-1	64QAM	20.25
low	665.5	133100	5	RB_1_high-1	256QAM	18.10
low	665.5	133100	5	RB_1_high	BPSK	22.01
low	665.5	133100	5	RB_1_high	QPSK	21.55
low	665.5	133100	5	RB_1_high	16QAM	20.60
low	665.5	133100	5	RB_1_high	64QAM	20.36
low	665.5	133100	5	RB_1_high	256QAM	18.44
low	665.5	133100	5	RB_50%_mid	BPSK	22.76
low	665.5	133100	5	RB_50%_mid	QPSK	22.70
low	665.5	133100	5	RB_50%_mid	16QAM	21.79
low	665.5	133100	5	RB_50%_mid	64QAM	20.18
low	665.5	133100	5	RB_50%_mid	256QAM	18.27
low	665.5	133100	5	RB_100%	BPSK	22.18
low	665.5	133100	5	RB_100%	QPSK	21.70
low	665.5	133100	5	RB_100%	16QAM	20.66
low	665.5	133100	5	RB_100%	64QAM	20.21
low	665.5	133100	5	RB_100%	256QAM	18.21
mid	680.5	136100	5	RB_1_low	BPSK	21.97
mid	680.5	136100	5	RB_1_low	QPSK	21.54
mid	680.5	136100	5	RB_1_low	16QAM	20.82
mid	680.5	136100	5	RB_1_low	64QAM	20.02
mid	680.5	136100	5	RB_1_low	256QAM	18.12
mid	680.5	136100	5	RB_1_low+1	BPSK	22.46
mid	680.5	136100	5	RB_1_low+1	QPSK	22.59
mid	680.5	136100	5	RB_1_low+1	16QAM	21.59
mid	680.5	136100	5	RB_1_low+1	64QAM	19.90
mid	680.5	136100	5	RB_1_low+1	256QAM	18.12
mid	680.5	136100	5	RB_1_high-1	BPSK	22.31
mid	680.5	136100	5	RB_1_high-1	QPSK	22.37
mid	680.5	136100	5	RB_1_high-1	16QAM	21.46
mid	680.5	136100	5	RB_1_high-1	64QAM	19.84
mid	680.5	136100	5	RB_1_high-1	256QAM	17.94

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	680.5	136100	5	RB_1_high	BPSK	21.97
mid	680.5	136100	5	RB_1_high	QPSK	21.28
mid	680.5	136100	5	RB_1_high	16QAM	20.46
mid	680.5	136100	5	RB_1_high	64QAM	20.07
mid	680.5	136100	5	RB_1_high	256QAM	17.92
mid	680.5	136100	5	RB_50%_mid	BPSK	22.43
mid	680.5	136100	5	RB_50%_mid	QPSK	22.49
mid	680.5	136100	5	RB_50%_mid	16QAM	21.42
mid	680.5	136100	5	RB_50%_mid	64QAM	20.01
mid	680.5	136100	5	RB_50%_mid	256QAM	18.00
mid	680.5	136100	5	RB_100%	BPSK	21.97
mid	680.5	136100	5	RB_100%	QPSK	21.48
mid	680.5	136100	5	RB_100%	16QAM	20.47
mid	680.5	136100	5	RB_100%	64QAM	19.95
mid	680.5	136100	5	RB_100%	256QAM	17.98
high	695.5	139100	5	RB_1_low	BPSK	22.16
high	695.5	139100	5	RB_1_low	QPSK	21.67
high	695.5	139100	5	RB_1_low	16QAM	20.98
high	695.5	139100	5	RB_1_low	64QAM	20.33
high	695.5	139100	5	RB_1_low	256QAM	18.47
high	695.5	139100	5	RB_1_low+1	BPSK	22.65
high	695.5	139100	5	RB_1_low+1	QPSK	22.88
high	695.5	139100	5	RB_1_low+1	16QAM	21.78
high	695.5	139100	5	RB_1_low+1	64QAM	20.11
high	695.5	139100	5	RB_1_low+1	256QAM	18.43
high	695.5	139100	5	RB_1_high-1	BPSK	22.46
high	695.5	139100	5	RB_1_high-1	QPSK	22.60
high	695.5	139100	5	RB_1_high-1	16QAM	21.98
high	695.5	139100	5	RB_1_high-1	64QAM	20.17
high	695.5	139100	5	RB_1_high-1	256QAM	18.11
high	695.5	139100	5	RB_1_high	BPSK	22.01
high	695.5	139100	5	RB_1_high	QPSK	21.52
high	695.5	139100	5	RB_1_high	16QAM	20.80
high	695.5	139100	5	RB_1_high	64QAM	20.25
high	695.5	139100	5	RB_1_high	256QAM	17.95
high	695.5	139100	5	RB_50%_mid	BPSK	22.67
high	695.5	139100	5	RB_50%_mid	QPSK	22.64
high	695.5	139100	5	RB_50%_mid	16QAM	21.79
high	695.5	139100	5	RB_50%_mid	64QAM	20.10
high	695.5	139100	5	RB_50%_mid	256QAM	18.21
high	695.5	139100	5	RB_100%	BPSK	22.04
high	695.5	139100	5	RB_100%	QPSK	21.67
high	695.5	139100	5	RB_100%	16QAM	20.61
high	695.5	139100	5	RB_100%	64QAM	20.14
high	695.5	139100	5	RB_100%	256QAM	18.17

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	668	133600	10	RB_1_low	BPSK	22.04
low	668	133600	10	RB_1_low	QPSK	21.54
low	668	133600	10	RB_1_low	16QAM	21.03
low	668	133600	10	RB_1_low	64QAM	20.12
low	668	133600	10	RB_1_low	256QAM	18.01
low	668	133600	10	RB_1_low+1	BPSK	22.45
low	668	133600	10	RB_1_low+1	QPSK	22.72
low	668	133600	10	RB_1_low+1	16QAM	21.70
low	668	133600	10	RB_1_low+1	64QAM	20.25
low	668	133600	10	RB_1_low+1	256QAM	18.38
low	668	133600	10	RB_1_high-1	BPSK	22.43
low	668	133600	10	RB_1_high-1	QPSK	22.58
low	668	133600	10	RB_1_high-1	16QAM	21.81
low	668	133600	10	RB_1_high-1	64QAM	20.08
low	668	133600	10	RB_1_high-1	256QAM	18.12
low	668	133600	10	RB_1_high	BPSK	22.47
low	668	133600	10	RB_1_high	QPSK	22.66
low	668	133600	10	RB_1_high	16QAM	21.47
low	668	133600	10	RB_1_high	64QAM	20.32
low	668	133600	10	RB_1_high	256QAM	18.47
low	668	133600	10	RB_50%_mid	BPSK	22.60
low	668	133600	10	RB_50%_mid	QPSK	22.64
low	668	133600	10	RB_50%_mid	16QAM	21.58
low	668	133600	10	RB_50%_mid	64QAM	20.05
low	668	133600	10	RB_50%_mid	256QAM	18.19
low	668	133600	10	RB_100%	BPSK	22.10
low	668	133600	10	RB_100%	QPSK	21.66
low	668	133600	10	RB_100%	16QAM	20.63
low	668	133600	10	RB_100%	64QAM	20.06
low	668	133600	10	RB_100%	256QAM	18.13
mid	680.5	136100	10	RB_1_low	BPSK	21.95
mid	680.5	136100	10	RB_1_low	QPSK	21.49
mid	680.5	136100	10	RB_1_low	16QAM	20.67
mid	680.5	136100	10	RB_1_low	64QAM	20.16
mid	680.5	136100	10	RB_1_low	256QAM	17.72
mid	680.5	136100	10	RB_1_low+1	BPSK	22.41
mid	680.5	136100	10	RB_1_low+1	QPSK	22.52
mid	680.5	136100	10	RB_1_low+1	16QAM	21.63
mid	680.5	136100	10	RB_1_low+1	64QAM	19.96
mid	680.5	136100	10	RB_1_low+1	256QAM	18.24
mid	680.5	136100	10	RB_1_high-1	BPSK	22.43
mid	680.5	136100	10	RB_1_high-1	QPSK	22.41
mid	680.5	136100	10	RB_1_high-1	16QAM	21.70
mid	680.5	136100	10	RB_1_high-1	64QAM	19.95
mid	680.5	136100	10	RB_1_high-1	256QAM	18.35

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	680.5	136100	10	RB_1_high	BPSK	22.36
mid	680.5	136100	10	RB_1_high	QPSK	22.45
mid	680.5	136100	10	RB_1_high	16QAM	21.65
mid	680.5	136100	10	RB_1_high	64QAM	20.13
mid	680.5	136100	10	RB_1_high	256QAM	18.19
mid	680.5	136100	10	RB_50%_mid	BPSK	22.56
mid	680.5	136100	10	RB_50%_mid	QPSK	22.45
mid	680.5	136100	10	RB_50%_mid	16QAM	21.43
mid	680.5	136100	10	RB_50%_mid	64QAM	20.01
mid	680.5	136100	10	RB_50%_mid	256QAM	17.93
mid	680.5	136100	10	RB_100%	BPSK	21.99
mid	680.5	136100	10	RB_100%	QPSK	21.41
mid	680.5	136100	10	RB_100%	16QAM	20.47
mid	680.5	136100	10	RB_100%	64QAM	20.02
mid	680.5	136100	10	RB_100%	256QAM	18.01
high	693	138600	10	RB_1_low	BPSK	22.05
high	693	138600	10	RB_1_low	QPSK	21.67
high	693	138600	10	RB_1_low	16QAM	20.65
high	693	138600	10	RB_1_low	64QAM	20.57
high	693	138600	10	RB_1_low	256QAM	18.13
high	693	138600	10	RB_1_low+1	BPSK	22.60
high	693	138600	10	RB_1_low+1	QPSK	22.65
high	693	138600	10	RB_1_low+1	16QAM	21.65
high	693	138600	10	RB_1_low+1	64QAM	20.49
high	693	138600	10	RB_1_low+1	256QAM	18.27
high	693	138600	10	RB_1_high-1	BPSK	22.50
high	693	138600	10	RB_1_high-1	QPSK	22.86
high	693	138600	10	RB_1_high-1	16QAM	21.65
high	693	138600	10	RB_1_high-1	64QAM	19.87
high	693	138600	10	RB_1_high-1	256QAM	18.39
high	693	138600	10	RB_1_high	BPSK	22.49
high	693	138600	10	RB_1_high	QPSK	22.45
high	693	138600	10	RB_1_high	16QAM	21.54
high	693	138600	10	RB_1_high	64QAM	20.31
high	693	138600	10	RB_1_high	256QAM	18.42
high	693	138600	10	RB_50%_mid	BPSK	22.65
high	693	138600	10	RB_50%_mid	QPSK	22.80
high	693	138600	10	RB_50%_mid	16QAM	21.60
high	693	138600	10	RB_50%_mid	64QAM	20.14
high	693	138600	10	RB_50%_mid	256QAM	18.21
high	693	138600	10	RB_100%	BPSK	22.10
high	693	138600	10	RB_100%	QPSK	21.61
high	693	138600	10	RB_100%	16QAM	20.67
high	693	138600	10	RB_100%	64QAM	20.09
high	693	138600	10	RB_100%	256QAM	18.16

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	670.5	134100	15	RB_1_low	BPSK	22.25
low	670.5	134100	15	RB_1_low	QPSK	21.73
low	670.5	134100	15	RB_1_low	16QAM	21.05
low	670.5	134100	15	RB_1_low	64QAM	20.40
low	670.5	134100	15	RB_1_low	256QAM	18.04
low	670.5	134100	15	RB_1_low+1	BPSK	22.61
low	670.5	134100	15	RB_1_low+1	QPSK	22.77
low	670.5	134100	15	RB_1_low+1	16QAM	22.08
low	670.5	134100	15	RB_1_low+1	64QAM	20.52
low	670.5	134100	15	RB_1_low+1	256QAM	18.32
low	670.5	134100	15	RB_1_high-1	BPSK	22.36
low	670.5	134100	15	RB_1_high-1	QPSK	22.65
low	670.5	134100	15	RB_1_high-1	16QAM	21.64
low	670.5	134100	15	RB_1_high-1	64QAM	19.87
low	670.5	134100	15	RB_1_high-1	256QAM	18.25
low	670.5	134100	15	RB_1_high	BPSK	22.42
low	670.5	134100	15	RB_1_high	QPSK	22.46
low	670.5	134100	15	RB_1_high	16QAM	21.64
low	670.5	134100	15	RB_1_high	64QAM	20.21
low	670.5	134100	15	RB_1_high	256QAM	18.10
low	670.5	134100	15	RB_50%_mid	BPSK	22.70
low	670.5	134100	15	RB_50%_mid	QPSK	**22.96**
low	670.5	134100	15	RB_50%_mid	16QAM	21.86
low	670.5	134100	15	RB_50%_mid	64QAM	20.29
low	670.5	134100	15	RB_50%_mid	256QAM	18.19
low	670.5	134100	15	RB_100%	BPSK	22.14
low	670.5	134100	15	RB_100%	QPSK	21.57
low	670.5	134100	15	RB_100%	16QAM	20.66
low	670.5	134100	15	RB_100%	64QAM	20.19
low	670.5	134100	15	RB_100%	256QAM	18.12
mid	680.5	136100	15	RB_1_low	BPSK	22.04
mid	680.5	136100	15	RB_1_low	QPSK	21.67
mid	680.5	136100	15	RB_1_low	16QAM	21.01
mid	680.5	136100	15	RB_1_low	64QAM	20.61
mid	680.5	136100	15	RB_1_low	256QAM	18.42
mid	680.5	136100	15	RB_1_low+1	BPSK	22.48
mid	680.5	136100	15	RB_1_low+1	QPSK	22.67
mid	680.5	136100	15	RB_1_low+1	16QAM	22.27
mid	680.5	136100	15	RB_1_low+1	64QAM	20.17
mid	680.5	136100	15	RB_1_low+1	256QAM	18.28
mid	680.5	136100	15	RB_1_high-1	BPSK	22.37
mid	680.5	136100	15	RB_1_high-1	QPSK	22.46
mid	680.5	136100	15	RB_1_high-1	16QAM	21.42
mid	680.5	136100	15	RB_1_high-1	64QAM	20.07
mid	680.5	136100	15	RB_1_high-1	256QAM	18.15

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	680.5	136100	15	RB_1_high	BPSK	22.40
mid	680.5	136100	15	RB_1_high	QPSK	22.38
mid	680.5	136100	15	RB_1_high	16QAM	21.56
mid	680.5	136100	15	RB_1_high	64QAM	19.83
mid	680.5	136100	15	RB_1_high	256QAM	18.36
mid	680.5	136100	15	RB_50%_mid	BPSK	22.50
mid	680.5	136100	15	RB_50%_mid	QPSK	22.48
mid	680.5	136100	15	RB_50%_mid	16QAM	21.76
mid	680.5	136100	15	RB_50%_mid	64QAM	20.15
mid	680.5	136100	15	RB_50%_mid	256QAM	18.22
mid	680.5	136100	15	RB_100%	BPSK	21.99
mid	680.5	136100	15	RB_100%	QPSK	21.54
mid	680.5	136100	15	RB_100%	16QAM	20.44
mid	680.5	136100	15	RB_100%	64QAM	20.04
mid	680.5	136100	15	RB_100%	256QAM	17.99
high	690.5	138100	15	RB_1_low	BPSK	21.98
high	690.5	138100	15	RB_1_low	QPSK	21.63
high	690.5	138100	15	RB_1_low	16QAM	20.70
high	690.5	138100	15	RB_1_low	64QAM	20.52
high	690.5	138100	15	RB_1_low	256QAM	18.02
high	690.5	138100	15	RB_1_low+1	BPSK	22.47
high	690.5	138100	15	RB_1_low+1	QPSK	22.66
high	690.5	138100	15	RB_1_low+1	16QAM	21.68
high	690.5	138100	15	RB_1_low+1	64QAM	20.24
high	690.5	138100	15	RB_1_low+1	256QAM	18.15
high	690.5	138100	15	RB_1_high-1	BPSK	22.52
high	690.5	138100	15	RB_1_high-1	QPSK	22.58
high	690.5	138100	15	RB_1_high-1	16QAM	21.39
high	690.5	138100	15	RB_1_high-1	64QAM	20.20
high	690.5	138100	15	RB_1_high-1	256QAM	18.23
high	690.5	138100	15	RB_1_high	BPSK	22.48
high	690.5	138100	15	RB_1_high	QPSK	22.59
high	690.5	138100	15	RB_1_high	16QAM	21.76
high	690.5	138100	15	RB_1_high	64QAM	19.98
high	690.5	138100	15	RB_1_high	256QAM	18.13
high	690.5	138100	15	RB_50%_mid	BPSK	22.66
high	690.5	138100	15	RB_50%_mid	QPSK	22.77
high	690.5	138100	15	RB_50%_mid	16QAM	21.78
high	690.5	138100	15	RB_50%_mid	64QAM	20.16
high	690.5	138100	15	RB_50%_mid	256QAM	18.16
high	690.5	138100	15	RB_100%	BPSK	22.13
high	690.5	138100	15	RB_100%	QPSK	21.58
high	690.5	138100	15	RB_100%	16QAM	20.53
high	690.5	138100	15	RB_100%	64QAM	20.16
high	690.5	138100	15	RB_100%	256QAM	18.34

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	673	134600	20	RB_1_low	BPSK	21.97
low	673	134600	20	RB_1_low	QPSK	21.63
low	673	134600	20	RB_1_low	16QAM	20.73
low	673	134600	20	RB_1_low	64QAM	20.18
low	673	134600	20	RB_1_low	256QAM	18.57
low	673	134600	20	RB_1_low+1	BPSK	22.69
low	**673**	**134600**	**20**	**RB_1_low+1**	**QPSK**	**22.79**
low	673	134600	20	RB_1_low+1	16QAM	21.69
low	673	134600	20	RB_1_low+1	64QAM	20.68
low	673	134600	20	RB_1_low+1	256QAM	18.08
low	673	134600	20	RB_1_high-1	BPSK	22.38
low	673	134600	20	RB_1_high-1	QPSK	22.44
low	673	134600	20	RB_1_high-1	16QAM	21.46
low	673	134600	20	RB_1_high-1	64QAM	19.90
low	673	134600	20	RB_1_high-1	256QAM	18.14
low	673	134600	20	RB_1_high	BPSK	22.40
low	673	134600	20	RB_1_high	QPSK	22.43
low	673	134600	20	RB_1_high	16QAM	21.66
low	673	134600	20	RB_1_high	64QAM	20.15
low	673	134600	20	RB_1_high	256QAM	18.15
low	**673**	**134600**	**20**	**RB_50%_mid**	**BPSK**	**22.60**
low	673	134600	20	RB_50%_mid	QPSK	22.57
low	673	134600	20	RB_50%_mid	16QAM	21.59
low	673	134600	20	RB_50%_mid	64QAM	20.02
low	673	134600	20	RB_50%_mid	256QAM	18.04
low	673	134600	20	RB_100%	BPSK	22.05
low	673	134600	20	RB_100%	QPSK	21.55
low	673	134600	20	RB_100%	16QAM	20.57
low	673	134600	20	RB_100%	64QAM	20.03
low	673	134600	20	RB_100%	256QAM	18.03
mid	680.5	136100	20	RB_1_low	BPSK	22.03
mid	680.5	136100	20	RB_1_low	QPSK	21.61
mid	680.5	136100	20	RB_1_low	16QAM	20.79
mid	680.5	136100	20	RB_1_low	64QAM	20.40
mid	680.5	136100	20	RB_1_low	256QAM	18.30
mid	680.5	136100	20	RB_1_low+1	BPSK	22.53
mid	**680.5**	**136100**	**20**	**RB_1_low+1**	**QPSK**	**22.55**
mid	680.5	136100	20	RB_1_low+1	16QAM	22.08
mid	680.5	136100	20	RB_1_low+1	64QAM	20.19
mid	680.5	136100	20	RB_1_low+1	256QAM	18.17
mid	680.5	136100	20	RB_1_high-1	BPSK	22.36
mid	680.5	136100	20	RB_1_high-1	QPSK	22.55
mid	680.5	136100	20	RB_1_high-1	16QAM	21.24
mid	680.5	136100	20	RB_1_high-1	64QAM	20.44
mid	680.5	136100	20	RB_1_high-1	256QAM	18.12

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	680.5	136100	20	RB_1_high	BPSK	22.54
mid	680.5	136100	20	RB_1_high	QPSK	22.46
mid	680.5	136100	20	RB_1_high	16QAM	21.60
mid	680.5	136100	20	RB_1_high	64QAM	20.32
mid	680.5	136100	20	RB_1_high	256QAM	18.17
mid	680.5	136100	20	RB_50%_mid	BPSK	22.49
mid	680.5	136100	20	RB_50%_mid	QPSK	22.53
mid	680.5	136100	20	RB_50%_mid	16QAM	21.47
mid	680.5	136100	20	RB_50%_mid	64QAM	20.05
mid	680.5	136100	20	RB_50%_mid	256QAM	18.03
mid	680.5	136100	20	RB_100%	BPSK	21.97
mid	680.5	136100	20	RB_100%	QPSK	21.45
mid	680.5	136100	20	RB_100%	16QAM	20.62
mid	680.5	136100	20	RB_100%	64QAM	20.01
mid	680.5	136100	20	RB_100%	256QAM	18.01
high	688	137600	20	RB_1_low	BPSK	21.92
high	688	137600	20	RB_1_low	QPSK	21.61
high	688	137600	20	RB_1_low	16QAM	20.79
high	688	137600	20	RB_1_low	64QAM	20.25
high	688	137600	20	RB_1_low	256QAM	17.96
high	688	137600	20	RB_1_low+1	BPSK	22.50
high	**688**	**137600**	**20**	**RB_1_low+1**	**QPSK**	**22.69**
high	688	137600	20	RB_1_low+1	16QAM	21.78
high	688	137600	20	RB_1_low+1	64QAM	20.13
high	688	137600	20	RB_1_low+1	256QAM	18.09
high	688	137600	20	RB_1_high-1	BPSK	22.37
high	688	137600	20	RB_1_high-1	QPSK	22.55
high	688	137600	20	RB_1_high-1	16QAM	21.30
high	688	137600	20	RB_1_high-1	64QAM	20.06
high	688	137600	20	RB_1_high-1	256QAM	18.15
high	688	137600	20	RB_1_high	BPSK	22.41
high	688	137600	20	RB_1_high	QPSK	22.41
high	688	137600	20	RB_1_high	16QAM	21.58
high	688	137600	20	RB_1_high	64QAM	20.13
high	688	137600	20	RB_1_high	256QAM	18.06
high	688	137600	20	RB_50%_mid	BPSK	22.53
high	688	137600	20	RB_50%_mid	QPSK	22.44
high	688	137600	20	RB_50%_mid	16QAM	21.49
high	688	137600	20	RB_50%_mid	64QAM	20.02
high	688	137600	20	RB_50%_mid	256QAM	17.99
high	688	137600	20	RB_100%	BPSK	21.91
high	688	137600	20	RB_100%	QPSK	21.50
high	688	137600	20	RB_100%	16QAM	20.46
high	688	137600	20	RB_100%	64QAM	19.93
high	688	137600	20	RB_100%	256QAM	18.03

Table 33: Test results conducted power measurement 5G NR FDD n71 600 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3710.01	647334	20	RB_1_low	BPSK	26.37
low	3710.01	647334	20	RB_1_low	QPSK	23.40
low	3710.01	647334	20	RB_1_low	16QAM	23.27
low	3710.01	647334	20	RB_1_low	64QAM	23.77
low	3710.01	647334	20	RB_1_low	256QAM	22.40
low	3710.01	647334	20	RB_1_low+1	BPSK	26.89
low	3710.01	647334	20	RB_1_low+1	QPSK	26.79
low	3710.01	647334	20	RB_1_low+1	16QAM	26.11
low	3710.01	647334	20	RB_1_low+1	64QAM	24.73
low	3710.01	647334	20	RB_1_low+1	256QAM	22.35
low	3710.01	647334	20	RB_1_high-1	BPSK	26.73
low	3710.01	647334	20	RB_1_high-1	QPSK	26.71
low	3710.01	647334	20	RB_1_high-1	16QAM	25.91
low	3710.01	647334	20	RB_1_high-1	64QAM	24.25
low	3710.01	647334	20	RB_1_high-1	256QAM	22.22
low	3710.01	647334	20	RB_1_high	BPSK	26.68
low	3710.01	647334	20	RB_1_high	QPSK	26.75
low	3710.01	647334	20	RB_1_high	16QAM	25.63
low	3710.01	647334	20	RB_1_high	64QAM	24.35
low	3710.01	647334	20	RB_1_high	256QAM	22.34
low	3710.01	647334	20	RB_50%_mid	BPSK	26.77
low	3710.01	647334	20	RB_50%_mid	QPSK	26.79
low	3710.01	647334	20	RB_50%_mid	16QAM	25.76
low	3710.01	647334	20	RB_50%_mid	64QAM	24.29
low	3710.01	647334	20	RB_50%_mid	256QAM	22.38
low	3710.01	647334	20	RB_100%	BPSK	26.32
low	3710.01	647334	20	RB_100%	QPSK	25.83
low	3710.01	647334	20	RB_100%	16QAM	24.82
low	3710.01	647334	20	RB_100%	64QAM	24.33
low	3710.01	647334	20	RB_100%	256QAM	22.36
mid	3840	656000	20	RB_1_low	BPSK	26.09
mid	3840	656000	20	RB_1_low	QPSK	23.21
mid	3840	656000	20	RB_1_low+1	BPSK	26.75
mid	3840	656000	20	RB_1_low+1	QPSK	26.73
mid	3840	656000	20	RB_1_high-1	BPSK	26.54
mid	3840	656000	20	RB_1_high-1	QPSK	26.58
mid	3840	656000	20	RB_1_high	BPSK	26.46
mid	3840	656000	20	RB_1_high	QPSK	26.53
mid	3840	656000	20	RB_50%_mid	BPSK	26.54
mid	3840	656000	20	RB_50%_mid	QPSK	26.57
mid	3840	656000	20	RB_100%	BPSK	26.11
mid	3840	656000	20	RB_100%	QPSK	25.61
high	3969.99	664666	20	RB_1_low	BPSK	25.72
high	3969.99	664666	20	RB_1_low	QPSK	22.86
high	3969.99	664666	20	RB_1_low+1	BPSK	26.36
high	3969.99	664666	20	RB_1_low+1	QPSK	26.36
high	3969.99	664666	20	RB_1_high-1	BPSK	26.09
high	3969.99	664666	20	RB_1_high-1	QPSK	26.06

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3969.99	664666	20	RB_1_high	BPSK	26.03
high	3969.99	664666	20	RB_1_high	QPSK	26.00
high	3969.99	664666	20	RB_50%_mid	BPSK	26.22
high	3969.99	664666	20	RB_50%_mid	QPSK	26.17
high	3969.99	664666	20	RB_100%	BPSK	25.72
high	3969.99	664666	20	RB_100%	QPSK	25.22
low	3560.01	637334	20	RB_1_low	BPSK	23.68
low	3560.01	637334	20	RB_1_low	QPSK	23.59
low	3560.01	637334	20	RB_1_low+1	BPSK	27.01
low	3560.01	637334	20	RB_1_low+1	QPSK	26.99
low	3560.01	637334	20	RB_1_high-1	BPSK	26.97
low	3560.01	637334	20	RB_1_high-1	QPSK	26.93
low	3560.01	637334	20	RB_1_high	BPSK	26.93
low	3560.01	637334	20	RB_1_high	QPSK	26.92
low	3560.01	637334	20	RB_50%_mid	BPSK	26.86
low	3560.01	637334	20	RB_50%_mid	QPSK	26.92
low	3560.01	637334	20	RB_100%	BPSK	26.50
low	3560.01	637334	20	RB_100%	QPSK	26.04
mid	3624.99	641666	20	RB_1_low	BPSK	26.45
mid	3624.99	641666	20	RB_1_low	QPSK	23.52
mid	3624.99	641666	20	RB_1_low+1	BPSK	26.97
mid	3624.99	641666	20	RB_1_low+1	QPSK	27.06
mid	3624.99	641666	20	RB_1_high-1	BPSK	27.01
mid	3624.99	641666	20	RB_1_high-1	QPSK	27.03
mid	3624.99	641666	20	RB_1_high	BPSK	27.08
mid	3624.99	641666	20	RB_1_high	QPSK	27.05
mid	3624.99	641666	20	RB_50%_mid	BPSK	26.93
mid	3624.99	641666	20	RB_50%_mid	QPSK	27.00
mid	3624.99	641666	20	RB_100%	BPSK	26.55
mid	3624.99	641666	20	RB_100%	QPSK	25.98
high	3690	646000	20	RB_1_low	BPSK	26.09
high	3690	646000	20	RB_1_low	QPSK	23.29
high	3690	646000	20	RB_1_low+1	BPSK	26.65
high	3690	646000	20	RB_1_low+1	QPSK	26.56
high	3690	646000	20	RB_1_high-1	BPSK	26.76
high	3690	646000	20	RB_1_high-1	QPSK	26.79
high	3690	646000	20	RB_1_high	BPSK	26.79
high	3690	646000	20	RB_1_high	QPSK	26.77
high	3690	646000	20	RB_50%_mid	BPSK	26.54
high	3690	646000	20	RB_50%_mid	QPSK	26.47
high	3690	646000	20	RB_100%	BPSK	26.12
high	3690	646000	20	RB_100%	QPSK	25.61
mid	3499.98	633332	20	RB_1_low	BPSK	26.26
mid	3499.98	633332	20	RB_1_low	QPSK	23.26
mid	3499.98	633332	20	RB_1_low+1	BPSK	26.83
mid	3499.98	633332	20	RB_1_low+1	QPSK	26.71

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3499.98	633332	20	RB_1_high-1	BPSK	26.69
mid	3499.98	633332	20	RB_1_high-1	QPSK	26.74
mid	3499.98	633332	20	RB_1_high	BPSK	26.70
mid	3499.98	633332	20	RB_1_high	QPSK	26.73
mid	3499.98	633332	20	RB_50%_mid	BPSK	26.67
mid	3499.98	633332	20	RB_50%_mid	QPSK	26.68
mid	3499.98	633332	20	RB_100%	BPSK	26.22
mid	3499.98	633332	20	RB_100%	QPSK	25.65
low	3460.02	630668	20	RB_1_low	BPSK	22.87
low	3460.02	630668	20	RB_1_low	QPSK	22.83
mid	3840	656000	20	RB_1_low	16QAM	23.26
mid	3840	656000	20	RB_1_low	64QAM	23.29
mid	3840	656000	20	RB_1_low	256QAM	22.23
low	3460.02	630668	20	RB_1_low+1	BPSK	26.50
low	3460.02	630668	20	RB_1_low+1	QPSK	26.44
mid	3840	656000	20	RB_1_low+1	16QAM	26.02
mid	3840	656000	20	RB_1_low+1	64QAM	24.52
mid	3840	656000	20	RB_1_low+1	256QAM	22.50
low	3460.02	630668	20	RB_1_high-1	BPSK	26.44
low	3460.02	630668	20	RB_1_high-1	QPSK	26.46
mid	3840	656000	20	RB_1_high-1	16QAM	25.55
mid	3840	656000	20	RB_1_high-1	64QAM	24.01
mid	3840	656000	20	RB_1_high-1	256QAM	22.31
low	3460.02	630668	20	RB_1_high	BPSK	26.48
low	3460.02	630668	20	RB_1_high	QPSK	26.37
mid	3840	656000	20	RB_1_high	16QAM	25.57
mid	3840	656000	20	RB_1_high	64QAM	24.09
mid	3840	656000	20	RB_1_high	256QAM	22.28
low	3460.02	630668	20	RB_50%_mid	BPSK	26.36
low	3460.02	630668	20	RB_50%_mid	QPSK	26.27
mid	3840	656000	20	RB_50%_mid	16QAM	25.59
mid	3840	656000	20	RB_50%_mid	64QAM	24.18
mid	3840	656000	20	RB_50%_mid	256QAM	22.10
low	3460.02	630668	20	RB_100%	BPSK	25.83
low	3460.02	630668	20	RB_100%	QPSK	25.31
mid	3840	656000	20	RB_100%	16QAM	24.64
mid	3840	656000	20	RB_100%	64QAM	24.11
mid	3840	656000	20	RB_100%	256QAM	22.17
high	3540	636000	20	RB_1_low	BPSK	26.52
high	3540	636000	20	RB_1_low	QPSK	23.53
high	3540	636000	20	RB_1_low+1	BPSK	27.03
high	3540	636000	20	RB_1_low+1	QPSK	27.02
high	3540	636000	20	RB_1_high-1	BPSK	27.03
high	3540	636000	20	RB_1_high-1	QPSK	26.94
high	3540	636000	20	RB_1_high	BPSK	27.00
high	3540	636000	20	RB_1_high	QPSK	27.03

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3540	636000	20	RB_50%_mid	BPSK	26.99
high	3540	636000	20	RB_50%_mid	QPSK	26.98
high	3540	636000	20	RB_100%	BPSK	26.49
high	3540	636000	20	RB_100%	QPSK	25.97
high	3969.99	664666	20	RB_1_low	16QAM	22.83
high	3969.99	664666	20	RB_1_low	64QAM	23.07
high	3969.99	664666	20	RB_1_low	256QAM	22.13
high	3969.99	664666	20	RB_1_low+1	16QAM	25.37
high	3969.99	664666	20	RB_1_low+1	64QAM	24.01
high	3969.99	664666	20	RB_1_low+1	256QAM	22.13
high	3969.99	664666	20	RB_1_high-1	16QAM	25.04
high	3969.99	664666	20	RB_1_high-1	64QAM	23.68
high	3969.99	664666	20	RB_1_high-1	256QAM	21.63
high	3969.99	664666	20	RB_1_high	16QAM	25.26
high	3969.99	664666	20	RB_1_high	64QAM	23.44
high	3969.99	664666	20	RB_1_high	256QAM	21.60
high	3969.99	664666	20	RB_50%_mid	16QAM	25.19
high	3969.99	664666	20	RB_50%_mid	64QAM	23.72
high	3969.99	664666	20	RB_50%_mid	256QAM	21.65
high	3969.99	664666	20	RB_100%	16QAM	24.25
high	3969.99	664666	20	RB_100%	64QAM	23.81
high	3969.99	664666	20	RB_100%	256QAM	21.80
low	3560.01	637334	20	RB_1_low	16QAM	23.55
low	3560.01	637334	20	RB_1_low	64QAM	23.52
low	3560.01	637334	20	RB_1_low	256QAM	22.64
low	3560.01	637334	20	RB_1_low+1	16QAM	26.12
low	3560.01	637334	20	RB_1_low+1	64QAM	24.66
low	3560.01	637334	20	RB_1_low+1	256QAM	22.29
low	3560.01	637334	20	RB_1_high-1	16QAM	25.94
low	3560.01	637334	20	RB_1_high-1	64QAM	24.59
low	3560.01	637334	20	RB_1_high-1	256QAM	22.66
low	3560.01	637334	20	RB_1_high	16QAM	26.13
low	3560.01	637334	20	RB_1_high	64QAM	24.29
low	3560.01	637334	20	RB_1_high	256QAM	22.27
low	3560.01	637334	20	RB_50%_mid	16QAM	25.83
low	3560.01	637334	20	RB_50%_mid	64QAM	24.44
low	3560.01	637334	20	RB_50%_mid	256QAM	22.41
low	3560.01	637334	20	RB_100%	16QAM	24.97
low	3560.01	637334	20	RB_100%	64QAM	24.53
low	3560.01	637334	20	RB_100%	256QAM	22.35
mid	3624.99	641666	20	RB_1_low	16QAM	23.40
mid	3624.99	641666	20	RB_1_low	64QAM	23.66
mid	3624.99	641666	20	RB_1_low	256QAM	22.13
mid	3624.99	641666	20	RB_1_low+1	16QAM	25.93
mid	3624.99	641666	20	RB_1_low+1	64QAM	24.61
mid	3624.99	641666	20	RB_1_low+1	256QAM	22.84

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3624.99	641666	20	RB_1_high-1	16QAM	26.12
mid	3624.99	641666	20	RB_1_high-1	64QAM	24.36
mid	3624.99	641666	20	RB_1_high-1	256QAM	22.30
mid	3624.99	641666	20	RB_1_high	16QAM	25.84
mid	3624.99	641666	20	RB_1_high	64QAM	24.27
mid	3624.99	641666	20	RB_1_high	256QAM	22.48
mid	3624.99	641666	20	RB_50%_mid	16QAM	25.97
mid	3624.99	641666	20	RB_50%_mid	64QAM	24.47
mid	3624.99	641666	20	RB_50%_mid	256QAM	22.41
mid	3624.99	641666	20	RB_100%	16QAM	25.00
mid	3624.99	641666	20	RB_100%	64QAM	24.51
mid	3624.99	641666	20	RB_100%	256QAM	22.46
high	3690	646000	20	RB_1_low	16QAM	23.36
high	3690	646000	20	RB_1_low	64QAM	22.96
high	3690	646000	20	RB_1_low	256QAM	22.04
high	3690	646000	20	RB_1_low+1	16QAM	25.61
high	3690	646000	20	RB_1_low+1	64QAM	24.24
high	3690	646000	20	RB_1_low+1	256QAM	22.49
high	3690	646000	20	RB_1_high-1	16QAM	25.91
high	3690	646000	20	RB_1_high-1	64QAM	24.32
high	3690	646000	20	RB_1_high-1	256QAM	22.18
high	3690	646000	20	RB_1_high	16QAM	25.77
high	3690	646000	20	RB_1_high	64QAM	24.60
high	3690	646000	20	RB_1_high	256QAM	22.18
high	3690	646000	20	RB_50%_mid	16QAM	25.29
high	3690	646000	20	RB_50%_mid	64QAM	24.35
high	3690	646000	20	RB_50%_mid	256QAM	22.13
high	3690	646000	20	RB_100%	16QAM	24.37
high	3690	646000	20	RB_100%	64QAM	24.45
high	3690	646000	20	RB_100%	256QAM	22.08
mid	3499.98	633332	20	RB_1_low	16QAM	23.51
mid	3499.98	633332	20	RB_1_low	64QAM	23.60
mid	3499.98	633332	20	RB_1_low	256QAM	22.09
mid	3499.98	633332	20	RB_1_low+1	16QAM	25.49
mid	3499.98	633332	20	RB_1_low+1	64QAM	24.30
mid	3499.98	633332	20	RB_1_low+1	256QAM	22.61
mid	3499.98	633332	20	RB_1_high-1	16QAM	25.62
mid	3499.98	633332	20	RB_1_high-1	64QAM	24.12
mid	3499.98	633332	20	RB_1_high-1	256QAM	22.09
mid	3499.98	633332	20	RB_1_high	16QAM	25.66
mid	3499.98	633332	20	RB_1_high	64QAM	24.37
mid	3499.98	633332	20	RB_1_high	256QAM	22.00
mid	3499.98	633332	20	RB_50%_mid	16QAM	25.61
mid	3499.98	633332	20	RB_50%_mid	64QAM	24.21
mid	3499.98	633332	20	RB_50%_mid	256QAM	22.12

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3499.98	633332	20	RB_100%	16QAM	24.64
mid	3499.98	633332	20	RB_100%	64QAM	24.20
mid	3499.98	633332	20	RB_100%	256QAM	22.01
low	3460.02	630668	20	RB_1_low	16QAM	23.16
low	3460.02	630668	20	RB_1_low	64QAM	22.93
low	3460.02	630668	20	RB_1_low	256QAM	22.26
low	3460.02	630668	20	RB_1_low+1	16QAM	25.44
low	3460.02	630668	20	RB_1_low+1	64QAM	23.98
low	3460.02	630668	20	RB_1_low+1	256QAM	22.39
low	3460.02	630668	20	RB_1_high-1	16QAM	25.54
low	3460.02	630668	20	RB_1_high-1	64QAM	24.03
low	3460.02	630668	20	RB_1_high-1	256QAM	21.27
low	3460.02	630668	20	RB_1_high	16QAM	25.36
low	3460.02	630668	20	RB_1_high	64QAM	23.78
low	3460.02	630668	20	RB_1_high	256QAM	21.98
low	3460.02	630668	20	RB_50%_mid	16QAM	25.39
low	3460.02	630668	20	RB_50%_mid	64QAM	23.85
low	3460.02	630668	20	RB_50%_mid	256QAM	21.18
low	3460.02	630668	20	RB_100%	16QAM	24.44
low	3460.02	630668	20	RB_100%	64QAM	23.94
low	3460.02	630668	20	RB_100%	256QAM	22.21
high	3540	636000	20	RB_1_low	16QAM	23.55
high	3540	636000	20	RB_1_low	64QAM	23.60
high	3540	636000	20	RB_1_low	256QAM	22.86
high	3540	636000	20	RB_1_low+1	16QAM	26.25
high	3540	636000	20	RB_1_low+1	64QAM	24.58
high	3540	636000	20	RB_1_low+1	256QAM	23.10
high	3540	636000	20	RB_1_high-1	16QAM	26.29
high	3540	636000	20	RB_1_high-1	64QAM	24.54
high	3540	636000	20	RB_1_high-1	256QAM	22.55
high	3540	636000	20	RB_1_high	16QAM	26.14
high	3540	636000	20	RB_1_high	64QAM	24.39
high	3540	636000	20	RB_1_high	256QAM	22.58
high	3540	636000	20	RB_50%_mid	16QAM	25.88
high	3540	636000	20	RB_50%_mid	64QAM	24.62
high	3540	636000	20	RB_50%_mid	256QAM	22.86
high	3540	636000	20	RB_100%	16QAM	25.03
high	3540	636000	20	RB_100%	64QAM	24.63
high	3540	636000	20	RB_100%	256QAM	22.97
low	3720	648000	40	RB_1_low	16QAM	23.72
low	3720	648000	40	RB_1_low	64QAM	23.25
low	3720	648000	40	RB_1_low	256QAM	22.57
low	3720	648000	40	RB_1_low+1	16QAM	25.95
low	3720	648000	40	RB_1_low+1	64QAM	24.50
low	3720	648000	40	RB_1_low+1	256QAM	22.47

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3720	648000	40	RB_1_high-1	16QAM	25.85
low	3720	648000	40	RB_1_high-1	64QAM	24.36
low	3720	648000	40	RB_1_high-1	256QAM	22.49
low	3720	648000	40	RB_1_high	16QAM	25.98
low	3720	648000	40	RB_1_high	64QAM	24.36
low	3720	648000	40	RB_1_high	256QAM	22.33
low	3720	648000	40	RB_50%_mid	16QAM	25.76
low	3720	648000	40	RB_50%_mid	64QAM	24.34
low	3720	648000	40	RB_50%_mid	256QAM	22.38
low	3720	648000	40	RB_100%	16QAM	24.83
low	3720	648000	40	RB_100%	64QAM	24.37
low	3720	648000	40	RB_100%	256QAM	22.33
mid	3840	656000	40	RB_1_low	16QAM	23.43
mid	3840	656000	40	RB_1_low	64QAM	23.50
mid	3840	656000	40	RB_1_low	256QAM	22.18
mid	3840	656000	40	RB_1_low+1	16QAM	25.82
mid	3840	656000	40	RB_1_low+1	64QAM	24.49
mid	3840	656000	40	RB_1_low+1	256QAM	22.33
mid	3840	656000	40	RB_1_high-1	16QAM	25.47
mid	3840	656000	40	RB_1_high-1	64QAM	24.10
mid	3840	656000	40	RB_1_high-1	256QAM	21.74
mid	3840	656000	40	RB_1_high	16QAM	25.48
mid	3840	656000	40	RB_1_high	64QAM	24.07
mid	3840	656000	40	RB_1_high	256QAM	22.02
mid	3840	656000	40	RB_50%_mid	16QAM	25.62
mid	3840	656000	40	RB_50%_mid	64QAM	24.15
mid	3840	656000	40	RB_50%_mid	256QAM	22.16
mid	3840	656000	40	RB_100%	16QAM	24.57
mid	3840	656000	40	RB_100%	64QAM	24.20
mid	3840	656000	40	RB_100%	256QAM	22.19
low	3720	648000	40	RB_1_low	BPSK	26.32
low	3720	648000	40	RB_1_low	QPSK	23.42
low	3720	648000	40	RB_1_low+1	BPSK	26.93
low	3720	648000	40	RB_1_low+1	QPSK	26.87
low	3720	648000	40	RB_1_high-1	BPSK	26.72
low	3720	648000	40	RB_1_high-1	QPSK	26.80
low	3720	648000	40	RB_1_high	BPSK	26.78
low	3720	648000	40	RB_1_high	QPSK	26.76
low	3720	648000	40	RB_50%_mid	BPSK	26.73
low	3720	648000	40	RB_50%_mid	QPSK	26.74
low	3720	648000	40	RB_100%	BPSK	26.34
low	3720	648000	40	RB_100%	QPSK	25.82
mid	3840	656000	40	RB_1_low	BPSK	26.08
mid	3840	656000	40	RB_1_low	QPSK	23.22
mid	3840	656000	40	RB_1_low+1	BPSK	26.69
mid	3840	656000	40	RB_1_low+1	QPSK	26.74

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3840	656000	40	RB_1_high-1	BPSK	26.37
mid	3840	656000	40	RB_1_high-1	QPSK	26.36
mid	3840	656000	40	RB_1_high	BPSK	26.37
mid	3840	656000	40	RB_1_high	QPSK	26.34
mid	3840	656000	40	RB_50%_mid	BPSK	26.57
mid	3840	656000	40	RB_50%_mid	QPSK	26.61
mid	3840	656000	40	RB_100%	BPSK	26.11
mid	3840	656000	40	RB_100%	QPSK	25.62
high	3960	664000	40	RB_1_low	BPSK	25.76
high	3960	664000	40	RB_1_low	QPSK	22.93
high	3960	664000	40	RB_1_low+1	BPSK	26.35
high	3960	664000	40	RB_1_low+1	QPSK	26.45
high	3960	664000	40	RB_1_high-1	BPSK	26.06
high	3960	664000	40	RB_1_high-1	QPSK	26.09
high	3960	664000	40	RB_1_high	BPSK	25.96
high	3960	664000	40	RB_1_high	QPSK	26.07
high	3960	664000	40	RB_50%_mid	BPSK	26.26
high	3960	664000	40	RB_50%_mid	QPSK	26.15
high	3960	664000	40	RB_100%	BPSK	25.77
high	3960	664000	40	RB_100%	QPSK	25.28
low	3570	638000	40	RB_1_low	BPSK	26.44
low	3570	638000	40	RB_1_low	QPSK	23.50
low	3570	638000	40	RB_1_low+1	BPSK	27.00
low	3570	638000	40	RB_1_low+1	QPSK	27.01
low	3570	638000	40	RB_1_high-1	BPSK	27.01
low	3570	638000	40	RB_1_high-1	QPSK	27.05
low	3570	638000	40	RB_1_high	BPSK	27.02
low	3570	638000	40	RB_1_high	QPSK	27.08
low	3570	638000	40	RB_50%_mid	BPSK	26.89
low	3570	638000	40	RB_50%_mid	QPSK	26.87
low	3570	638000	40	RB_100%	BPSK	26.46
low	3570	638000	40	RB_100%	QPSK	25.97
mid	3624.99	641666	40	RB_1_low	BPSK	26.44
mid	3624.99	641666	40	RB_1_low	QPSK	23.29
mid	3624.99	641666	40	RB_1_low+1	BPSK	26.76
mid	3624.99	641666	40	RB_1_low+1	QPSK	26.78
mid	3624.99	641666	40	RB_1_high-1	BPSK	27.02
mid	3624.99	641666	40	RB_1_high-1	QPSK	26.97
mid	3624.99	641666	40	RB_1_high	BPSK	27.04
mid	3624.99	641666	40	RB_1_high	QPSK	27.02
mid	3624.99	641666	40	RB_50%_mid	BPSK	26.97
mid	3624.99	641666	40	RB_50%_mid	QPSK	26.94
mid	3624.99	641666	40	RB_100%	BPSK	26.43
mid	3624.99	641666	40	RB_100%	QPSK	25.95
high	3679.98	645332	40	RB_1_low	BPSK	26.30
high	3679.98	645332	40	RB_1_low	QPSK	23.29

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3679.98	645332	40	RB_1_low+1	BPSK	26.76
high	3679.98	645332	40	RB_1_low+1	QPSK	26.76
high	3679.98	645332	40	RB_1_high-1	BPSK	26.83
high	3679.98	645332	40	RB_1_high-1	QPSK	26.85
high	3679.98	645332	40	RB_1_high	BPSK	26.82
high	3679.98	645332	40	RB_1_high	QPSK	26.90
high	3679.98	645332	40	RB_50%_mid	BPSK	26.79
high	3679.98	645332	40	RB_50%_mid	QPSK	26.73
high	3679.98	645332	40	RB_100%	BPSK	26.24
high	3679.98	645332	40	RB_100%	QPSK	25.82
mid	3499.98	633332	40	RB_1_low	BPSK	26.29
mid	3499.98	633332	40	RB_1_low	QPSK	23.22
high	3960	664000	40	RB_1_low	16QAM	22.92
high	3960	664000	40	RB_1_low	64QAM	23.04
high	3960	664000	40	RB_1_low	256QAM	21.91
mid	3499.98	633332	40	RB_1_low+1	BPSK	26.62
mid	3499.98	633332	40	RB_1_low+1	QPSK	26.57
high	3960	664000	40	RB_1_low+1	16QAM	25.97
high	3960	664000	40	RB_1_low+1	64QAM	23.85
high	3960	664000	40	RB_1_low+1	256QAM	21.91
mid	3499.98	633332	40	RB_1_high-1	BPSK	26.76
mid	3499.98	633332	40	RB_1_high-1	QPSK	26.78
high	3960	664000	40	RB_1_high-1	16QAM	25.20
high	3960	664000	40	RB_1_high-1	64QAM	23.66
high	3960	664000	40	RB_1_high-1	256QAM	22.56
mid	3499.98	633332	40	RB_1_high	BPSK	26.81
mid	3499.98	633332	40	RB_1_high	QPSK	26.81
high	3960	664000	40	RB_1_high	16QAM	24.92
high	3960	664000	40	RB_1_high	64QAM	23.58
high	3960	664000	40	RB_1_high	256QAM	21.75
mid	3499.98	633332	40	RB_50%_mid	BPSK	26.74
mid	3499.98	633332	40	RB_50%_mid	QPSK	26.78
high	3960	664000	40	RB_50%_mid	16QAM	25.14
high	3960	664000	40	RB_50%_mid	64QAM	23.69
high	3960	664000	40	RB_50%_mid	256QAM	21.70
mid	3499.98	633332	40	RB_100%	BPSK	26.17
mid	3499.98	633332	40	RB_100%	QPSK	25.74
high	3960	664000	40	RB_100%	16QAM	24.30
high	3960	664000	40	RB_100%	64QAM	23.85
high	3960	664000	40	RB_100%	256QAM	21.91
low	3470.01	631334	40	RB_1_low	BPSK	25.96
low	3470.01	631334	40	RB_1_low	QPSK	22.94
low	3470.01	631334	40	RB_1_low+1	BPSK	26.36
low	3470.01	631334	40	RB_1_low+1	QPSK	26.48
low	3470.01	631334	40	RB_1_high-1	BPSK	26.70
low	3470.01	631334	40	RB_1_high-1	QPSK	26.77

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3470.01	631334	40	RB_1_high	BPSK	26.71
low	3470.01	631334	40	RB_1_high	QPSK	26.68
low	3470.01	631334	40	RB_50%_mid	BPSK	26.50
low	3470.01	631334	40	RB_50%_mid	QPSK	26.42
low	3470.01	631334	40	RB_100%	BPSK	25.90
low	3470.01	631334	40	RB_100%	QPSK	25.42
high	3529.98	635332	40	RB_1_low	BPSK	23.31
high	3529.98	635332	40	RB_1_low	QPSK	23.39
high	3529.98	635332	40	RB_1_low+1	BPSK	26.75
high	3529.98	635332	40	RB_1_low+1	QPSK	26.83
high	3529.98	635332	40	RB_1_high-1	BPSK	27.22
high	3529.98	635332	40	RB_1_high-1	QPSK	27.16
high	3529.98	635332	40	RB_1_high	BPSK	27.17
high	3529.98	635332	40	RB_1_high	QPSK	**27.24**
high	3529.98	635332	40	RB_50%_mid	BPSK	26.91
high	3529.98	635332	40	RB_50%_mid	QPSK	26.90
high	3529.98	635332	40	RB_100%	BPSK	26.43
high	3529.98	635332	40	RB_100%	QPSK	25.95
low	3570	638000	40	RB_1_low	16QAM	23.36
low	3570	638000	40	RB_1_low	64QAM	23.44
low	3570	638000	40	RB_1_low	256QAM	22.02
low	3570	638000	40	RB_1_low+1	16QAM	25.77
low	3570	638000	40	RB_1_low+1	64QAM	24.20
low	3570	638000	40	RB_1_low+1	256QAM	22.63
low	3570	638000	40	RB_1_high-1	16QAM	26.15
low	3570	638000	40	RB_1_high-1	64QAM	24.43
low	3570	638000	40	RB_1_high-1	256QAM	22.31
low	3570	638000	40	RB_1_high	16QAM	26.00
low	3570	638000	40	RB_1_high	64QAM	24.34
low	3570	638000	40	RB_1_high	256QAM	22.62
low	3570	638000	40	RB_50%_mid	16QAM	25.94
low	3570	638000	40	RB_50%_mid	64QAM	24.52
low	3570	638000	40	RB_50%_mid	256QAM	22.41
low	3570	638000	40	RB_100%	16QAM	24.90
low	3570	638000	40	RB_100%	64QAM	24.43
low	3570	638000	40	RB_100%	256QAM	22.42
mid	3624.99	641666	40	RB_1_low	16QAM	22.92
mid	3624.99	641666	40	RB_1_low	64QAM	23.47
mid	3624.99	641666	40	RB_1_low	256QAM	22.49
mid	3624.99	641666	40	RB_1_low+1	16QAM	25.63
mid	3624.99	641666	40	RB_1_low+1	64QAM	23.88
mid	3624.99	641666	40	RB_1_low+1	256QAM	22.73
mid	3624.99	641666	40	RB_1_high-1	16QAM	26.19
mid	3624.99	641666	40	RB_1_high-1	64QAM	24.36
mid	3624.99	641666	40	RB_1_high-1	256QAM	22.46

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3624.99	641666	40	RB_1_high	16QAM	25.99
mid	3624.99	641666	40	RB_1_high	64QAM	24.65
mid	3624.99	641666	40	RB_1_high	256QAM	22.58
mid	3624.99	641666	40	RB_50%_mid	16QAM	25.95
mid	3624.99	641666	40	RB_50%_mid	64QAM	24.40
mid	3624.99	641666	40	RB_50%_mid	256QAM	22.41
mid	3624.99	641666	40	RB_100%	16QAM	24.85
mid	3624.99	641666	40	RB_100%	64QAM	24.40
mid	3624.99	641666	40	RB_100%	256QAM	22.25
high	3679.98	645332	40	RB_1_low	16QAM	23.26
high	3679.98	645332	40	RB_1_low	64QAM	23.25
high	3679.98	645332	40	RB_1_low	256QAM	22.69
high	3679.98	645332	40	RB_1_low+1	16QAM	26.06
high	3679.98	645332	40	RB_1_low+1	64QAM	24.44
high	3679.98	645332	40	RB_1_low+1	256QAM	22.19
high	3679.98	645332	40	RB_1_high-1	16QAM	25.47
high	3679.98	645332	40	RB_1_high-1	64QAM	24.55
high	3679.98	645332	40	RB_1_high-1	256QAM	22.45
high	3679.98	645332	40	RB_1_high	16QAM	26.08
high	3679.98	645332	40	RB_1_high	64QAM	24.47
high	3679.98	645332	40	RB_1_high	256QAM	22.41
high	3679.98	645332	40	RB_50%_mid	16QAM	25.78
high	3679.98	645332	40	RB_50%_mid	64QAM	24.22
high	3679.98	645332	40	RB_50%_mid	256QAM	22.19
high	3679.98	645332	40	RB_100%	16QAM	24.87
high	3679.98	645332	40	RB_100%	64QAM	24.34
high	3679.98	645332	40	RB_100%	256QAM	22.71
mid	3499.98	633332	40	RB_1_low	16QAM	23.07
mid	3499.98	633332	40	RB_1_low	64QAM	23.00
mid	3499.98	633332	40	RB_1_low	256QAM	22.02
mid	3499.98	633332	40	RB_1_low+1	16QAM	25.70
mid	3499.98	633332	40	RB_1_low+1	64QAM	24.09
mid	3499.98	633332	40	RB_1_low+1	256QAM	22.33
mid	3499.98	633332	40	RB_1_high-1	16QAM	25.82
mid	3499.98	633332	40	RB_1_high-1	64QAM	24.29
mid	3499.98	633332	40	RB_1_high-1	256QAM	22.13
mid	3499.98	633332	40	RB_1_high	16QAM	25.62
mid	3499.98	633332	40	RB_1_high	64QAM	24.02
mid	3499.98	633332	40	RB_1_high	256QAM	22.29
mid	3499.98	633332	40	RB_50%_mid	16QAM	25.73
mid	3499.98	633332	40	RB_50%_mid	64QAM	24.28
mid	3499.98	633332	40	RB_50%_mid	256QAM	22.21
mid	3499.98	633332	40	RB_100%	16QAM	24.79
mid	3499.98	633332	40	RB_100%	64QAM	24.25
mid	3499.98	633332	40	RB_100%	256QAM	22.45

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3470.01	631334	40	RB_1_low	16QAM	22.75
low	3470.01	631334	40	RB_1_low	64QAM	22.94
low	3470.01	631334	40	RB_1_low	256QAM	21.84
low	3470.01	631334	40	RB_1_low+1	16QAM	25.22
low	3470.01	631334	40	RB_1_low+1	64QAM	23.84
low	3470.01	631334	40	RB_1_low+1	256QAM	21.52
low	3470.01	631334	40	RB_1_high-1	16QAM	25.28
low	3470.01	631334	40	RB_1_high-1	64QAM	24.32
low	3470.01	631334	40	RB_1_high-1	256QAM	22.21
low	3470.01	631334	40	RB_1_high	16QAM	26.04
low	3470.01	631334	40	RB_1_high	64QAM	24.42
low	3470.01	631334	40	RB_1_high	256QAM	22.20
low	3470.01	631334	40	RB_50%_mid	16QAM	25.42
low	3470.01	631334	40	RB_50%_mid	64QAM	23.52
low	3470.01	631334	40	RB_50%_mid	256QAM	21.80
low	3470.01	631334	40	RB_100%	16QAM	24.46
low	3470.01	631334	40	RB_100%	64QAM	23.51
low	3470.01	631334	40	RB_100%	256QAM	21.88
high	3529.98	635332	40	RB_1_low	16QAM	23.51
high	3529.98	635332	40	RB_1_low	64QAM	23.32
high	3529.98	635332	40	RB_1_low	256QAM	22.44
high	3529.98	635332	40	RB_1_low+1	16QAM	26.05
high	3529.98	635332	40	RB_1_low+1	64QAM	24.20
high	3529.98	635332	40	RB_1_low+1	256QAM	22.07
high	3529.98	635332	40	RB_1_high-1	16QAM	26.57
high	3529.98	635332	40	RB_1_high-1	64QAM	24.09
high	3529.98	635332	40	RB_1_high-1	256QAM	21.59
high	3529.98	635332	40	RB_1_high	16QAM	26.24
high	3529.98	635332	40	RB_1_high	64QAM	24.28
high	3529.98	635332	40	RB_1_high	256QAM	22.43
high	3529.98	635332	40	RB_50%_mid	16QAM	25.88
high	3529.98	635332	40	RB_50%_mid	64QAM	24.49
high	3529.98	635332	40	RB_50%_mid	256QAM	22.45
high	3529.98	635332	40	RB_100%	16QAM	24.91
high	3529.98	635332	40	RB_100%	64QAM	24.42
high	3529.98	635332	40	RB_100%	256QAM	21.81
low	3725.01	648334	50	RB_1_low	16QAM	23.23
low	3725.01	648334	50	RB_1_low	64QAM	23.41
low	3725.01	648334	50	RB_1_low	256QAM	22.38
low	3725.01	648334	50	RB_1_low+1	16QAM	26.08
low	3725.01	648334	50	RB_1_low+1	64QAM	24.30
low	3725.01	648334	50	RB_1_low+1	256QAM	22.30
low	3725.01	648334	50	RB_1_high-1	16QAM	25.45
low	3725.01	648334	50	RB_1_high-1	64QAM	24.14
low	3725.01	648334	50	RB_1_high-1	256QAM	22.08

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3725.01	648334	50	RB_1_high	16QAM	25.50
low	3725.01	648334	50	RB_1_high	64QAM	24.23
low	3725.01	648334	50	RB_1_high	256QAM	22.19
low	3725.01	648334	50	RB_50%_mid	16QAM	25.86
low	3725.01	648334	50	RB_50%_mid	64QAM	24.22
low	3725.01	648334	50	RB_50%_mid	256QAM	22.17
low	3725.01	648334	50	RB_100%	16QAM	24.94
low	3725.01	648334	50	RB_100%	64QAM	24.19
low	3725.01	648334	50	RB_100%	256QAM	22.19
mid	3840	656000	50	RB_1_low	16QAM	23.15
mid	3840	656000	50	RB_1_low	64QAM	23.21
mid	3840	656000	50	RB_1_low	256QAM	22.26
mid	3840	656000	50	RB_1_low+1	16QAM	25.61
mid	3840	656000	50	RB_1_low+1	64QAM	24.11
mid	3840	656000	50	RB_1_low+1	256QAM	22.11
mid	3840	656000	50	RB_1_high-1	16QAM	25.22
mid	3840	656000	50	RB_1_high-1	64QAM	23.90
mid	3840	656000	50	RB_1_high-1	256QAM	22.05
mid	3840	656000	50	RB_1_high	16QAM	25.35
mid	3840	656000	50	RB_1_high	64QAM	23.86
mid	3840	656000	50	RB_1_high	256QAM	21.92
mid	3840	656000	50	RB_50%_mid	16QAM	25.52
mid	3840	656000	50	RB_50%_mid	64QAM	24.06
mid	3840	656000	50	RB_50%_mid	256QAM	22.06
mid	3840	656000	50	RB_100%	16QAM	24.49
mid	3840	656000	50	RB_100%	64QAM	23.95
mid	3840	656000	50	RB_100%	256QAM	22.09
high	3954.99	663666	50	RB_1_low	16QAM	22.76
high	3954.99	663666	50	RB_1_low	64QAM	22.97
high	3954.99	663666	50	RB_1_low	256QAM	21.83
high	3954.99	663666	50	RB_1_low+1	16QAM	25.34
high	3954.99	663666	50	RB_1_low+1	64QAM	24.36
high	3954.99	663666	50	RB_1_low+1	256QAM	21.93
high	3954.99	663666	50	RB_1_high-1	16QAM	25.30
high	3954.99	663666	50	RB_1_high-1	64QAM	23.63
high	3954.99	663666	50	RB_1_high-1	256QAM	21.58
high	3954.99	663666	50	RB_1_high	16QAM	25.05
high	3954.99	663666	50	RB_1_high	64QAM	23.66
high	3954.99	663666	50	RB_1_high	256QAM	21.79
high	3954.99	663666	50	RB_50%_mid	16QAM	25.32
high	3954.99	663666	50	RB_50%_mid	64QAM	23.87
high	3954.99	663666	50	RB_50%_mid	256QAM	21.84
high	3954.99	663666	50	RB_100%	16QAM	24.26
high	3954.99	663666	50	RB_100%	64QAM	24.01
high	3954.99	663666	50	RB_100%	256QAM	21.83

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3725.01	648334	50	RB_1_low	BPSK	26.15
low	3725.01	648334	50	RB_1_low	QPSK	23.26
low	3725.01	648334	50	RB_1_low+1	BPSK	26.81
low	3725.01	648334	50	RB_1_low+1	QPSK	26.77
low	3725.01	648334	50	RB_1_high-1	BPSK	26.45
low	3725.01	648334	50	RB_1_high-1	QPSK	26.41
low	3725.01	648334	50	RB_1_high	BPSK	26.47
low	3725.01	648334	50	RB_1_high	QPSK	26.47
low	3725.01	648334	50	RB_50%_mid	BPSK	26.76
low	3725.01	648334	50	RB_50%_mid	QPSK	26.66
low	3725.01	648334	50	RB_100%	BPSK	26.19
low	3725.01	648334	50	RB_100%	QPSK	25.71
mid	3840	656000	50	RB_1_low	BPSK	25.97
mid	3840	656000	50	RB_1_low	QPSK	23.13
mid	3840	656000	50	RB_1_low+1	BPSK	26.60
mid	3840	656000	50	RB_1_low+1	QPSK	26.63
mid	3840	656000	50	RB_1_high-1	BPSK	26.15
mid	3840	656000	50	RB_1_high-1	QPSK	26.21
mid	3840	656000	50	RB_1_high	BPSK	26.16
mid	3840	656000	50	RB_1_high	QPSK	26.14
mid	3840	656000	50	RB_50%_mid	BPSK	26.45
mid	3840	656000	50	RB_50%_mid	QPSK	26.53
mid	3840	656000	50	RB_100%	BPSK	25.98
mid	3840	656000	50	RB_100%	QPSK	25.46
high	3954.99	663666	50	RB_1_low	BPSK	25.70
high	3954.99	663666	50	RB_1_low	QPSK	22.78
high	3954.99	663666	50	RB_1_low+1	BPSK	26.30
high	3954.99	663666	50	RB_1_low+1	QPSK	26.26
high	3954.99	663666	50	RB_1_high-1	BPSK	25.96
high	3954.99	663666	50	RB_1_high-1	QPSK	25.96
high	3954.99	663666	50	RB_1_high	BPSK	26.00
high	3954.99	663666	50	RB_1_high	QPSK	26.00
high	3954.99	663666	50	RB_50%_mid	BPSK	26.29
high	3954.99	663666	50	RB_50%_mid	QPSK	26.23
high	3954.99	663666	50	RB_100%	BPSK	25.77
high	3954.99	663666	50	RB_100%	QPSK	25.26
low	3575.01	638334	50	RB_1_low	BPSK	26.36
low	3575.01	638334	50	RB_1_low	QPSK	23.35
low	3575.01	638334	50	RB_1_low+1	BPSK	26.98
low	3575.01	638334	50	RB_1_low+1	QPSK	26.94
low	3575.01	638334	50	RB_1_high-1	BPSK	26.81
low	3575.01	638334	50	RB_1_high-1	QPSK	26.71
low	3575.01	638334	50	RB_1_high	BPSK	26.79
low	3575.01	638334	50	RB_1_high	QPSK	26.77
low	3575.01	638334	50	RB_50%_mid	BPSK	27.02
low	3575.01	638334	50	RB_50%_mid	QPSK	26.95

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3575.01	638334	50	RB_100%	BPSK	26.52
low	3575.01	638334	50	RB_100%	QPSK	25.94
mid	3624.99	641666	50	RB_1_low	BPSK	23.36
mid	3624.99	641666	50	RB_1_low	QPSK	23.29
mid	3624.99	641666	50	RB_1_low+1	BPSK	26.78
mid	3624.99	641666	50	RB_1_low+1	QPSK	26.80
mid	3624.99	641666	50	RB_1_high-1	BPSK	26.97
mid	3624.99	641666	50	RB_1_high-1	QPSK	26.87
mid	3624.99	641666	50	RB_1_high	BPSK	26.93
mid	3624.99	641666	50	RB_1_high	QPSK	26.89
mid	3624.99	641666	50	RB_50%_mid	BPSK	26.99
mid	3624.99	641666	50	RB_50%_mid	QPSK	27.03
mid	3624.99	641666	50	RB_100%	BPSK	26.37
mid	3624.99	641666	50	RB_100%	QPSK	25.99
high	3675	645000	50	RB_1_low	BPSK	23.42
high	3675	645000	50	RB_1_low	QPSK	23.44
high	3675	645000	50	RB_1_low+1	BPSK	26.89
high	3675	645000	50	RB_1_low+1	QPSK	26.85
high	3675	645000	50	RB_1_high-1	BPSK	26.58
high	3675	645000	50	RB_1_high-1	QPSK	26.56
high	3675	645000	50	RB_1_high	BPSK	26.61
high	3675	645000	50	RB_1_high	QPSK	26.61
high	3675	645000	50	RB_50%_mid	BPSK	26.69
high	3675	645000	50	RB_50%_mid	QPSK	26.70
high	3675	645000	50	RB_100%	BPSK	26.13
high	3675	645000	50	RB_100%	QPSK	25.61
mid	3499.98	633332	50	RB_1_low	BPSK	26.14
mid	3499.98	633332	50	RB_1_low	QPSK	22.97
mid	3499.98	633332	50	RB_1_low+1	BPSK	26.51
mid	3499.98	633332	50	RB_1_low+1	QPSK	26.54
mid	3499.98	633332	50	RB_1_high-1	BPSK	26.73
mid	3499.98	633332	50	RB_1_high-1	QPSK	26.76
mid	3499.98	633332	50	RB_1_high	BPSK	26.74
mid	3499.98	633332	50	RB_1_high	QPSK	26.79
mid	3499.98	633332	50	RB_50%_mid	BPSK	26.65
mid	3499.98	633332	50	RB_50%_mid	QPSK	26.69
mid	3499.98	633332	50	RB_100%	BPSK	26.19
mid	3499.98	633332	50	RB_100%	QPSK	25.67
low	3475.02	631668	50	RB_1_low	BPSK	25.95
low	3475.02	631668	50	RB_1_low	QPSK	22.63
low	3475.02	631668	50	RB_1_low+1	BPSK	26.29
low	3475.02	631668	50	RB_1_low+1	QPSK	26.22
low	3475.02	631668	50	RB_1_high-1	BPSK	26.57
low	3475.02	631668	50	RB_1_high-1	QPSK	26.44
low	3475.02	631668	50	RB_1_high	BPSK	26.57
low	3475.02	631668	50	RB_1_high	QPSK	26.47

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3475.02	631668	50	RB_50%_mid	BPSK	26.45
low	3475.02	631668	50	RB_50%_mid	QPSK	26.50
low	3475.02	631668	50	RB_100%	BPSK	26.02
low	3475.02	631668	50	RB_100%	QPSK	25.40
high	3525	635000	50	RB_1_low	BPSK	26.28
high	3525	635000	50	RB_1_low	QPSK	23.07
high	3525	635000	50	RB_1_low+1	BPSK	26.62
high	3525	635000	50	RB_1_low+1	QPSK	26.67
high	3525	635000	50	RB_1_high-1	BPSK	26.83
high	3525	635000	50	RB_1_high-1	QPSK	26.97
high	3525	635000	50	RB_1_high	BPSK	27.02
high	3525	635000	50	RB_1_high	QPSK	26.97
high	3525	635000	50	RB_50%_mid	BPSK	26.74
high	3525	635000	50	RB_50%_mid	QPSK	26.80
high	3525	635000	50	RB_100%	BPSK	26.29
high	3525	635000	50	RB_100%	QPSK	25.78
low	3575.01	638334	50	RB_1_low	16QAM	23.52
low	3575.01	638334	50	RB_1_low	64QAM	23.27
low	3575.01	638334	50	RB_1_low	256QAM	22.53
low	3575.01	638334	50	RB_1_low+1	16QAM	25.85
low	3575.01	638334	50	RB_1_low+1	64QAM	24.67
low	3575.01	638334	50	RB_1_low+1	256QAM	22.41
low	3575.01	638334	50	RB_1_high-1	16QAM	25.68
low	3575.01	638334	50	RB_1_high-1	64QAM	24.44
low	3575.01	638334	50	RB_1_high-1	256QAM	22.32
low	3575.01	638334	50	RB_1_high	16QAM	25.93
low	3575.01	638334	50	RB_1_high	64QAM	24.41
low	3575.01	638334	50	RB_1_high	256QAM	22.38
low	3575.01	638334	50	RB_50%_mid	16QAM	25.96
low	3575.01	638334	50	RB_50%_mid	64QAM	24.52
low	3575.01	638334	50	RB_50%_mid	256QAM	22.56
low	3575.01	638334	50	RB_100%	16QAM	24.91
low	3575.01	638334	50	RB_100%	64QAM	24.48
low	3575.01	638334	50	RB_100%	256QAM	22.42
mid	3624.99	641666	50	RB_1_low	16QAM	23.48
mid	3624.99	641666	50	RB_1_low	64QAM	23.12
mid	3624.99	641666	50	RB_1_low	256QAM	22.49
mid	3624.99	641666	50	RB_1_low+1	16QAM	25.65
mid	3624.99	641666	50	RB_1_low+1	64QAM	24.55
mid	3624.99	641666	50	RB_1_low+1	256QAM	22.28
mid	3624.99	641666	50	RB_1_high-1	16QAM	26.27
mid	3624.99	641666	50	RB_1_high-1	64QAM	24.48
mid	3624.99	641666	50	RB_1_high-1	256QAM	22.39
mid	3624.99	641666	50	RB_1_high	16QAM	25.83
mid	3624.99	641666	50	RB_1_high	64QAM	24.32
mid	3624.99	641666	50	RB_1_high	256QAM	22.68

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3624.99	641666	50	RB_50%_mid	16QAM	26.01
mid	3624.99	641666	50	RB_50%_mid	64QAM	24.49
mid	3624.99	641666	50	RB_50%_mid	256QAM	22.24
mid	3624.99	641666	50	RB_100%	16QAM	25.01
mid	3624.99	641666	50	RB_100%	64QAM	24.47
mid	3624.99	641666	50	RB_100%	256QAM	22.79
high	3675	645000	50	RB_1_low	16QAM	23.11
high	3675	645000	50	RB_1_low	64QAM	23.59
high	3675	645000	50	RB_1_low	256QAM	22.31
high	3675	645000	50	RB_1_low+1	16QAM	25.81
high	3675	645000	50	RB_1_low+1	64QAM	23.97
high	3675	645000	50	RB_1_low+1	256QAM	22.49
high	3675	645000	50	RB_1_high-1	16QAM	25.41
high	3675	645000	50	RB_1_high-1	64QAM	24.17
high	3675	645000	50	RB_1_high-1	256QAM	22.03
high	3675	645000	50	RB_1_high	16QAM	25.66
high	3675	645000	50	RB_1_high	64QAM	24.08
high	3675	645000	50	RB_1_high	256QAM	21.96
high	3675	645000	50	RB_50%_mid	16QAM	25.70
high	3675	645000	50	RB_50%_mid	64QAM	23.82
high	3675	645000	50	RB_50%_mid	256QAM	22.14
high	3675	645000	50	RB_100%	16QAM	24.70
high	3675	645000	50	RB_100%	64QAM	23.83
high	3675	645000	50	RB_100%	256QAM	22.12
mid	3499.98	633332	50	RB_1_low	16QAM	23.21
mid	3499.98	633332	50	RB_1_low	64QAM	23.23
mid	3499.98	633332	50	RB_1_low	256QAM	21.96
mid	3499.98	633332	50	RB_1_low+1	16QAM	25.83
mid	3499.98	633332	50	RB_1_low+1	64QAM	23.93
mid	3499.98	633332	50	RB_1_low+1	256QAM	22.14
mid	3499.98	633332	50	RB_1_high-1	16QAM	25.82
mid	3499.98	633332	50	RB_1_high-1	64QAM	23.83
mid	3499.98	633332	50	RB_1_high-1	256QAM	22.20
mid	3499.98	633332	50	RB_1_high	16QAM	25.84
mid	3499.98	633332	50	RB_1_high	64QAM	24.45
mid	3499.98	633332	50	RB_1_high	256QAM	21.32
mid	3499.98	633332	50	RB_50%_mid	16QAM	25.68
mid	3499.98	633332	50	RB_50%_mid	64QAM	24.23
mid	3499.98	633332	50	RB_50%_mid	256QAM	22.08
mid	3499.98	633332	50	RB_100%	16QAM	24.62
mid	3499.98	633332	50	RB_100%	64QAM	24.15
mid	3499.98	633332	50	RB_100%	256QAM	22.17
low	3475.02	631668	50	RB_1_low	16QAM	22.95
low	3475.02	631668	50	RB_1_low	64QAM	22.74
low	3475.02	631668	50	RB_1_low	256QAM	21.76

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3475.02	631668	50	RB_1_low+1	16QAM	25.00
low	3475.02	631668	50	RB_1_low+1	64QAM	23.61
low	3475.02	631668	50	RB_1_low+1	256QAM	21.69
low	3475.02	631668	50	RB_1_high-1	16QAM	25.66
low	3475.02	631668	50	RB_1_high-1	64QAM	24.20
low	3475.02	631668	50	RB_1_high-1	256QAM	22.03
low	3475.02	631668	50	RB_1_high	16QAM	25.41
low	3475.02	631668	50	RB_1_high	64QAM	24.06
low	3475.02	631668	50	RB_1_high	256QAM	21.45
low	3475.02	631668	50	RB_50%_mid	16QAM	25.52
low	3475.02	631668	50	RB_50%_mid	64QAM	23.64
low	3475.02	631668	50	RB_50%_mid	256QAM	21.98
low	3475.02	631668	50	RB_100%	16QAM	24.35
low	3475.02	631668	50	RB_100%	64QAM	23.97
low	3475.02	631668	50	RB_100%	256QAM	22.07
high	3525	635000	50	RB_1_low	16QAM	23.18
high	3525	635000	50	RB_1_low	64QAM	23.06
high	3525	635000	50	RB_1_low	256QAM	21.86
high	3525	635000	50	RB_1_low+1	16QAM	25.70
high	3525	635000	50	RB_1_low+1	64QAM	24.02
high	3525	635000	50	RB_1_low+1	256QAM	22.18
high	3525	635000	50	RB_1_high-1	16QAM	25.98
high	3525	635000	50	RB_1_high-1	64QAM	24.25
high	3525	635000	50	RB_1_high-1	256QAM	22.21
high	3525	635000	50	RB_1_high	16QAM	26.19
high	3525	635000	50	RB_1_high	64QAM	24.55
high	3525	635000	50	RB_1_high	256QAM	22.66
high	3525	635000	50	RB_50%_mid	16QAM	25.81
high	3525	635000	50	RB_50%_mid	64QAM	24.27
high	3525	635000	50	RB_50%_mid	256QAM	21.80
high	3525	635000	50	RB_100%	16QAM	25.02
high	3525	635000	50	RB_100%	64QAM	24.15
high	3525	635000	50	RB_100%	256QAM	22.64
low	3730.02	648668	60	RB_1_low	16QAM	23.34
low	3730.02	648668	60	RB_1_low	64QAM	23.46
low	3730.02	648668	60	RB_1_low	256QAM	22.64
low	3730.02	648668	60	RB_1_low+1	16QAM	25.96
low	3730.02	648668	60	RB_1_low+1	64QAM	24.58
low	3730.02	648668	60	RB_1_low+1	256QAM	22.37
low	3730.02	648668	60	RB_1_high-1	16QAM	25.70
low	3730.02	648668	60	RB_1_high-1	64QAM	24.28
low	3730.02	648668	60	RB_1_high-1	256QAM	22.16
low	3730.02	648668	60	RB_1_high	16QAM	23.28
low	3730.02	648668	60	RB_1_high	64QAM	23.31
low	3730.02	648668	60	RB_1_high	256QAM	22.26

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3730.02	648668	60	RB_50%_mid	16QAM	25.70
low	3730.02	648668	60	RB_50%_mid	64QAM	24.24
low	3730.02	648668	60	RB_50%_mid	256QAM	22.30
low	3730.02	648668	60	RB_100%	16QAM	24.71
low	3730.02	648668	60	RB_100%	64QAM	24.21
low	3730.02	648668	60	RB_100%	256QAM	22.29
mid	3840	656000	60	RB_1_low	16QAM	23.44
mid	3840	656000	60	RB_1_low	64QAM	23.22
mid	3840	656000	60	RB_1_low	256QAM	22.35
mid	3840	656000	60	RB_1_low+1	16QAM	25.78
mid	3840	656000	60	RB_1_low+1	64QAM	24.17
mid	3840	656000	60	RB_1_low+1	256QAM	22.46
mid	3840	656000	60	RB_1_high-1	16QAM	25.30
mid	3840	656000	60	RB_1_high-1	64QAM	23.84
mid	3840	656000	60	RB_1_high-1	256QAM	21.68
mid	3840	656000	60	RB_1_high	16QAM	22.78
mid	3840	656000	60	RB_1_high	64QAM	22.97
mid	3840	656000	60	RB_1_high	256QAM	21.89
mid	3840	656000	60	RB_50%_mid	16QAM	25.61
mid	3840	656000	60	RB_50%_mid	64QAM	24.11
mid	3840	656000	60	RB_50%_mid	256QAM	22.17
mid	3840	656000	60	RB_100%	16QAM	24.55
mid	3840	656000	60	RB_100%	64QAM	24.13
mid	3840	656000	60	RB_100%	256QAM	22.20
high	3949.98	663332	60	RB_1_low	16QAM	22.72
high	3949.98	663332	60	RB_1_low	64QAM	23.03
high	3949.98	663332	60	RB_1_low	256QAM	21.68
high	3949.98	663332	60	RB_1_low+1	16QAM	25.79
high	3949.98	663332	60	RB_1_low+1	64QAM	23.80
high	3949.98	663332	60	RB_1_low+1	256QAM	21.84
high	3949.98	663332	60	RB_1_high-1	16QAM	24.70
high	3949.98	663332	60	RB_1_high-1	64QAM	23.36
high	3949.98	663332	60	RB_1_high-1	256QAM	20.98
high	3949.98	663332	60	RB_1_high	16QAM	22.26
high	3949.98	663332	60	RB_1_high	64QAM	22.42
high	3949.98	663332	60	RB_1_high	256QAM	21.25
high	3949.98	663332	60	RB_50%_mid	16QAM	25.12
high	3949.98	663332	60	RB_50%_mid	64QAM	23.67
high	3949.98	663332	60	RB_50%_mid	256QAM	21.70
high	3949.98	663332	60	RB_100%	16QAM	24.17
high	3949.98	663332	60	RB_100%	64QAM	23.65
high	3949.98	663332	60	RB_100%	256QAM	21.60
low	3580.02	638668	60	RB_1_low	16QAM	23.33
low	3580.02	638668	60	RB_1_low	64QAM	23.73
low	3580.02	638668	60	RB_1_low	256QAM	22.57

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3580.02	638668	60	RB_1_low+1	16QAM	26.12
low	3580.02	638668	60	RB_1_low+1	64QAM	24.67
low	3580.02	638668	60	RB_1_low+1	256QAM	22.43
low	3580.02	638668	60	RB_1_high-1	16QAM	25.72
low	3580.02	638668	60	RB_1_high-1	64QAM	24.10
low	3580.02	638668	60	RB_1_high-1	256QAM	22.24
low	3580.02	638668	60	RB_1_high	16QAM	23.08
low	3580.02	638668	60	RB_1_high	64QAM	23.28
low	3580.02	638668	60	RB_1_high	256QAM	21.79
low	3580.02	638668	60	RB_50%_mid	16QAM	26.04
low	3580.02	638668	60	RB_50%_mid	64QAM	24.49
low	3580.02	638668	60	RB_50%_mid	256QAM	22.48
low	3580.02	638668	60	RB_100%	16QAM	24.93
low	3580.02	638668	60	RB_100%	64QAM	24.46
low	3580.02	638668	60	RB_100%	256QAM	22.52
low	3730.02	648668	60	RB_1_low	BPSK	23.33
low	3730.02	648668	60	RB_1_low	QPSK	23.40
low	3730.02	648668	60	RB_1_low+1	BPSK	26.85
low	3730.02	648668	60	RB_1_low+1	QPSK	26.83
low	3730.02	648668	60	RB_1_high-1	BPSK	26.65
low	3730.02	648668	60	RB_1_high-1	QPSK	26.77
low	3730.02	648668	60	RB_1_high	BPSK	23.27
low	3730.02	648668	60	RB_1_high	QPSK	23.14
low	3730.02	648668	60	RB_50%_mid	BPSK	26.70
low	3730.02	648668	60	RB_50%_mid	QPSK	26.68
low	3730.02	648668	60	RB_100%	BPSK	26.26
low	3730.02	648668	60	RB_100%	QPSK	25.76
mid	3840	656000	60	RB_1_low	BPSK	26.05
mid	3840	656000	60	RB_1_low	QPSK	23.13
mid	3840	656000	60	RB_1_low+1	BPSK	26.62
mid	3840	656000	60	RB_1_low+1	QPSK	26.67
mid	3840	656000	60	RB_1_high-1	BPSK	26.23
mid	3840	656000	60	RB_1_high-1	QPSK	26.28
mid	3840	656000	60	RB_1_high	BPSK	22.82
mid	3840	656000	60	RB_1_high	QPSK	22.81
mid	3840	656000	60	RB_50%_mid	BPSK	26.65
mid	3840	656000	60	RB_50%_mid	QPSK	26.54
mid	3840	656000	60	RB_100%	BPSK	26.11
mid	3840	656000	60	RB_100%	QPSK	25.58
high	3949.98	663332	60	RB_1_low	BPSK	25.61
high	3949.98	663332	60	RB_1_low	QPSK	22.67
mid	3624.99	641666	60	RB_1_low	16QAM	23.38
mid	3624.99	641666	60	RB_1_low	64QAM	23.94
mid	3624.99	641666	60	RB_1_low	256QAM	22.20

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3949.98	663332	60	RB_1_low+1	BPSK	26.21
high	3949.98	663332	60	RB_1_low+1	QPSK	26.27
mid	3624.99	641666	60	RB_1_low+1	16QAM	25.51
mid	3624.99	641666	60	RB_1_low+1	64QAM	24.47
mid	3624.99	641666	60	RB_1_low+1	256QAM	22.32
high	3949.98	663332	60	RB_1_high-1	BPSK	25.60
high	3949.98	663332	60	RB_1_high-1	QPSK	25.67
mid	3624.99	641666	60	RB_1_high-1	16QAM	25.90
mid	3624.99	641666	60	RB_1_high-1	64QAM	24.40
mid	3624.99	641666	60	RB_1_high-1	256QAM	22.00
high	3949.98	663332	60	RB_1_high	BPSK	22.19
high	3949.98	663332	60	RB_1_high	QPSK	22.23
mid	3624.99	641666	60	RB_1_high	16QAM	23.53
mid	3624.99	641666	60	RB_1_high	64QAM	22.69
mid	3624.99	641666	60	RB_1_high	256QAM	22.10
high	3949.98	663332	60	RB_50%_mid	BPSK	26.11
high	3949.98	663332	60	RB_50%_mid	QPSK	26.08
mid	3624.99	641666	60	RB_50%_mid	16QAM	25.95
mid	3624.99	641666	60	RB_50%_mid	64QAM	24.52
mid	3624.99	641666	60	RB_50%_mid	256QAM	22.50
high	3949.98	663332	60	RB_100%	BPSK	25.60
high	3949.98	663332	60	RB_100%	QPSK	25.06
mid	3624.99	641666	60	RB_100%	16QAM	24.97
mid	3624.99	641666	60	RB_100%	64QAM	24.42
mid	3624.99	641666	60	RB_100%	256QAM	22.08
low	3580.02	638668	60	RB_1_low	BPSK	26.44
low	3580.02	638668	60	RB_1_low	QPSK	23.49
low	3580.02	638668	60	RB_1_low+1	BPSK	26.95
low	3580.02	638668	60	RB_1_low+1	QPSK	26.90
low	3580.02	638668	60	RB_1_high-1	BPSK	26.65
low	3580.02	638668	60	RB_1_high-1	QPSK	26.58
low	3580.02	638668	60	RB_1_high	BPSK	23.14
low	3580.02	638668	60	RB_1_high	QPSK	23.02
low	3580.02	638668	60	RB_50%_mid	BPSK	27.05
low	3580.02	638668	60	RB_50%_mid	QPSK	26.97
low	3580.02	638668	60	RB_100%	BPSK	26.48
low	3580.02	638668	60	RB_100%	QPSK	25.96
mid	3624.99	641666	60	RB_1_low	BPSK	26.38
mid	3624.99	641666	60	RB_1_low	QPSK	23.25
mid	3624.99	641666	60	RB_1_low+1	BPSK	26.82
mid	3624.99	641666	60	RB_1_low+1	QPSK	26.91
mid	3624.99	641666	60	RB_1_high-1	BPSK	26.67
mid	3624.99	641666	60	RB_1_high-1	QPSK	26.69
mid	3624.99	641666	60	RB_1_high	BPSK	23.23
mid	3624.99	641666	60	RB_1_high	QPSK	23.25
mid	3624.99	641666	60	RB_50%_mid	BPSK	26.96
mid	3624.99	641666	60	RB_50%_mid	QPSK	26.99

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3624.99	641666	60	RB_100%	BPSK	26.43
mid	3624.99	641666	60	RB_100%	QPSK	25.92
high	3669.99	644666	60	RB_1_low	BPSK	26.23
high	3669.99	644666	60	RB_1_low	QPSK	23.41
high	3669.99	644666	60	RB_1_low+1	BPSK	26.96
high	3669.99	644666	60	RB_1_low+1	QPSK	26.94
high	3669.99	644666	60	RB_1_high-1	BPSK	26.93
high	3669.99	644666	60	RB_1_high-1	QPSK	26.94
high	3669.99	644666	60	RB_1_high	BPSK	23.46
high	3669.99	644666	60	RB_1_high	QPSK	23.41
high	3669.99	644666	60	RB_50%_mid	BPSK	26.81
high	3669.99	644666	60	RB_50%_mid	QPSK	26.80
high	3669.99	644666	60	RB_100%	BPSK	26.28
high	3669.99	644666	60	RB_100%	QPSK	25.77
mid	3499.98	633332	60	RB_1_low	BPSK	26.23
mid	3499.98	633332	60	RB_1_low	QPSK	23.14
mid	3499.98	633332	60	RB_1_low+1	BPSK	26.65
mid	3499.98	633332	60	RB_1_low+1	QPSK	26.58
mid	3499.98	633332	60	RB_1_high-1	BPSK	26.78
mid	3499.98	633332	60	RB_1_high-1	QPSK	26.81
mid	3499.98	633332	60	RB_1_high	BPSK	23.35
mid	3499.98	633332	60	RB_1_high	QPSK	23.26
mid	3499.98	633332	60	RB_50%_mid	BPSK	26.64
mid	3499.98	633332	60	RB_50%_mid	QPSK	26.75
mid	3499.98	633332	60	RB_100%	BPSK	26.13
mid	3499.98	633332	60	RB_100%	QPSK	25.69
low	3480	632000	60	RB_1_low	BPSK	23.07
low	3480	632000	60	RB_1_low	QPSK	22.94
low	3480	632000	60	RB_1_low+1	BPSK	26.43
low	3480	632000	60	RB_1_low+1	QPSK	26.30
low	3480	632000	60	RB_1_high-1	BPSK	26.59
low	3480	632000	60	RB_1_high-1	QPSK	26.65
low	3480	632000	60	RB_1_high	BPSK	23.26
low	3480	632000	60	RB_1_high	QPSK	23.24
low	3480	632000	60	RB_50%_mid	BPSK	26.66
low	3480	632000	60	RB_50%_mid	QPSK	26.65
low	3480	632000	60	RB_100%	BPSK	26.15
low	3480	632000	60	RB_100%	QPSK	25.57
high	3519.99	634666	60	RB_1_low	BPSK	26.21
high	3519.99	634666	60	RB_1_low	QPSK	23.23
high	3669.99	644666	60	RB_1_low	16QAM	23.38
high	3669.99	644666	60	RB_1_low	64QAM	23.46
high	3669.99	644666	60	RB_1_low	256QAM	22.24
high	3519.99	634666	60	RB_1_low+1	BPSK	26.69
high	3519.99	634666	60	RB_1_low+1	QPSK	26.74
high	3669.99	644666	60	RB_1_low+1	16QAM	26.20
high	3669.99	644666	60	RB_1_low+1	64QAM	24.40
high	3669.99	644666	60	RB_1_low+1	256QAM	22.17

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3519.99	634666	60	RB_1_high-1	BPSK	26.96
high	3519.99	634666	60	RB_1_high-1	QPSK	26.99
high	3669.99	644666	60	RB_1_high-1	16QAM	26.32
high	3669.99	644666	60	RB_1_high-1	64QAM	24.71
high	3669.99	644666	60	RB_1_high-1	256QAM	22.13
high	3519.99	634666	60	RB_1_high	BPSK	23.57
high	3519.99	634666	60	RB_1_high	QPSK	23.42
high	3669.99	644666	60	RB_1_high	16QAM	23.57
high	3669.99	644666	60	RB_1_high	64QAM	23.22
high	3669.99	644666	60	RB_1_high	256QAM	22.11
high	3519.99	634666	60	RB_50%_mid	BPSK	26.69
high	3519.99	634666	60	RB_50%_mid	QPSK	26.67
high	3669.99	644666	60	RB_50%_mid	16QAM	25.82
high	3669.99	644666	60	RB_50%_mid	64QAM	24.30
high	3669.99	644666	60	RB_50%_mid	256QAM	22.35
high	3519.99	634666	60	RB_100%	BPSK	26.24
high	3519.99	634666	60	RB_100%	QPSK	25.70
high	3669.99	644666	60	RB_100%	16QAM	24.78
high	3669.99	644666	60	RB_100%	64QAM	24.34
high	3669.99	644666	60	RB_100%	256QAM	22.30
mid	3499.98	633332	60	RB_1_low	16QAM	23.14
mid	3499.98	633332	60	RB_1_low	64QAM	23.39
mid	3499.98	633332	60	RB_1_low	256QAM	22.16
mid	3499.98	633332	60	RB_1_low+1	16QAM	25.39
mid	3499.98	633332	60	RB_1_low+1	64QAM	24.03
mid	3499.98	633332	60	RB_1_low+1	256QAM	21.92
mid	3499.98	633332	60	RB_1_high-1	16QAM	25.91
mid	3499.98	633332	60	RB_1_high-1	64QAM	23.70
mid	3499.98	633332	60	RB_1_high-1	256QAM	22.50
mid	3499.98	633332	60	RB_1_high	16QAM	23.53
mid	3499.98	633332	60	RB_1_high	64QAM	23.41
mid	3499.98	633332	60	RB_1_high	256QAM	22.45
mid	3499.98	633332	60	RB_50%_mid	16QAM	25.70
mid	3499.98	633332	60	RB_50%_mid	64QAM	24.27
mid	3499.98	633332	60	RB_50%_mid	256QAM	22.34
mid	3499.98	633332	60	RB_100%	16QAM	24.76
mid	3499.98	633332	60	RB_100%	64QAM	24.35
mid	3499.98	633332	60	RB_100%	256QAM	22.81
low	3480	632000	60	RB_1_low	16QAM	23.09
low	3480	632000	60	RB_1_low	64QAM	23.22
low	3480	632000	60	RB_1_low	256QAM	21.91
low	3480	632000	60	RB_1_low+1	16QAM	25.44
low	3480	632000	60	RB_1_low+1	64QAM	24.39
low	3480	632000	60	RB_1_low+1	256QAM	21.90
low	3480	632000	60	RB_1_high-1	16QAM	25.87
low	3480	632000	60	RB_1_high-1	64QAM	24.53
low	3480	632000	60	RB_1_high-1	256QAM	22.30

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3480	632000	60	RB_1_high	16QAM	23.20
low	3480	632000	60	RB_1_high	64QAM	22.93
low	3480	632000	60	RB_1_high	256QAM	22.15
low	3480	632000	60	RB_50%_mid	16QAM	25.67
low	3480	632000	60	RB_50%_mid	64QAM	24.20
low	3480	632000	60	RB_50%_mid	256QAM	22.27
low	3480	632000	60	RB_100%	16QAM	24.71
low	3480	632000	60	RB_100%	64QAM	24.18
low	3480	632000	60	RB_100%	256QAM	22.09
high	3519.99	634666	60	RB_1_low	16QAM	23.03
high	3519.99	634666	60	RB_1_low	64QAM	23.21
high	3519.99	634666	60	RB_1_low	256QAM	22.01
high	3519.99	634666	60	RB_1_low+1	16QAM	25.87
high	3519.99	634666	60	RB_1_low+1	64QAM	24.26
high	3519.99	634666	60	RB_1_low+1	256QAM	22.32
high	3519.99	634666	60	RB_1_high-1	16QAM	26.15
high	3519.99	634666	60	RB_1_high-1	64QAM	24.35
high	3519.99	634666	60	RB_1_high-1	256QAM	22.59
high	3519.99	634666	60	RB_1_high	16QAM	23.57
high	3519.99	634666	60	RB_1_high	64QAM	23.71
high	3519.99	634666	60	RB_1_high	256QAM	22.57
high	3519.99	634666	60	RB_50%_mid	16QAM	25.75
high	3519.99	634666	60	RB_50%_mid	64QAM	24.33
high	3519.99	634666	60	RB_50%_mid	256QAM	21.70
high	3519.99	634666	60	RB_100%	16QAM	24.64
high	3519.99	634666	60	RB_100%	64QAM	24.23
high	3519.99	634666	60	RB_100%	256QAM	21.71
low	3740.01	649334	80	RB_1_low	16QAM	23.57
low	3740.01	649334	80	RB_1_low	64QAM	23.52
low	3740.01	649334	80	RB_1_low	256QAM	22.78
low	3740.01	649334	80	RB_1_low+1	16QAM	26.22
low	3740.01	649334	80	RB_1_low+1	64QAM	24.75
low	3740.01	649334	80	RB_1_low+1	256QAM	22.66
low	3740.01	649334	80	RB_1_high-1	16QAM	25.19
low	3740.01	649334	80	RB_1_high-1	64QAM	23.76
low	3740.01	649334	80	RB_1_high-1	256QAM	21.67
low	3740.01	649334	80	RB_1_high	16QAM	25.32
low	3740.01	649334	80	RB_1_high	64QAM	23.66
low	3740.01	649334	80	RB_1_high	256QAM	21.90
low	3740.01	649334	80	RB_50%_mid	16QAM	25.72
low	3740.01	649334	80	RB_50%_mid	64QAM	24.29
low	3740.01	649334	80	RB_50%_mid	256QAM	22.28
low	3740.01	649334	80	RB_100%	16QAM	24.60
low	3740.01	649334	80	RB_100%	64QAM	24.10
low	3740.01	649334	80	RB_100%	256QAM	22.17

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3840	656000	80	RB_1_low	16QAM	23.42
mid	3840	656000	80	RB_1_low	64QAM	23.12
mid	3840	656000	80	RB_1_low	256QAM	22.77
mid	3840	656000	80	RB_1_low+1	16QAM	25.81
mid	3840	656000	80	RB_1_low+1	64QAM	24.10
mid	3840	656000	80	RB_1_low+1	256QAM	22.34
mid	3840	656000	80	RB_1_high-1	16QAM	25.51
mid	3840	656000	80	RB_1_high-1	64QAM	23.82
mid	3840	656000	80	RB_1_high-1	256QAM	21.92
mid	3840	656000	80	RB_1_high	16QAM	25.50
mid	3840	656000	80	RB_1_high	64QAM	23.81
mid	3840	656000	80	RB_1_high	256QAM	21.83
mid	3840	656000	80	RB_50%_mid	16QAM	25.66
mid	3840	656000	80	RB_50%_mid	64QAM	24.08
mid	3840	656000	80	RB_50%_mid	256QAM	22.14
mid	3840	656000	80	RB_100%	16QAM	24.69
mid	3840	656000	80	RB_100%	64QAM	24.11
mid	3840	656000	80	RB_100%	256QAM	22.10
high	3939.99	662666	80	RB_1_low	16QAM	23.20
high	3939.99	662666	80	RB_1_low	64QAM	23.14
high	3939.99	662666	80	RB_1_low	256QAM	21.82
high	3939.99	662666	80	RB_1_low+1	16QAM	25.46
high	3939.99	662666	80	RB_1_low+1	64QAM	24.04
high	3939.99	662666	80	RB_1_low+1	256QAM	21.91
high	3939.99	662666	80	RB_1_high-1	16QAM	24.61
high	3939.99	662666	80	RB_1_high-1	64QAM	23.02
high	3939.99	662666	80	RB_1_high-1	256QAM	21.22
high	3939.99	662666	80	RB_1_high	16QAM	24.62
high	3939.99	662666	80	RB_1_high	64QAM	23.05
high	3939.99	662666	80	RB_1_high	256QAM	21.21
high	3939.99	662666	80	RB_50%_mid	16QAM	25.24
high	3939.99	662666	80	RB_50%_mid	64QAM	23.75
high	3939.99	662666	80	RB_50%_mid	256QAM	21.78
high	3939.99	662666	80	RB_100%	16QAM	24.24
high	3939.99	662666	80	RB_100%	64QAM	23.76
high	3939.99	662666	80	RB_100%	256QAM	21.76
low	3590.01	639334	80	RB_1_low	16QAM	23.27
low	3590.01	639334	80	RB_1_low	64QAM	23.19
low	3590.01	639334	80	RB_1_low	256QAM	22.58
low	3590.01	639334	80	RB_1_low+1	16QAM	25.98
low	3590.01	639334	80	RB_1_low+1	64QAM	24.27
low	3590.01	639334	80	RB_1_low+1	256QAM	22.24
low	3590.01	639334	80	RB_1_high-1	16QAM	25.96
low	3590.01	639334	80	RB_1_high-1	64QAM	24.08
low	3590.01	639334	80	RB_1_high-1	256QAM	22.43

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3590.01	639334	80	RB_1_high	16QAM	25.86
low	3590.01	639334	80	RB_1_high	64QAM	24.35
low	3590.01	639334	80	RB_1_high	256QAM	22.03
low	3590.01	639334	80	RB_50%_mid	16QAM	25.88
low	3590.01	639334	80	RB_50%_mid	64QAM	24.40
low	3590.01	639334	80	RB_50%_mid	256QAM	22.40
low	3590.01	639334	80	RB_100%	16QAM	24.94
low	3590.01	639334	80	RB_100%	64QAM	24.46
low	3590.01	639334	80	RB_100%	256QAM	22.14
mid	3624.99	641666	80	RB_1_low	16QAM	23.52
mid	3624.99	641666	80	RB_1_low	64QAM	23.14
mid	3624.99	641666	80	RB_1_low	256QAM	22.58
mid	3624.99	641666	80	RB_1_low+1	16QAM	26.34
mid	3624.99	641666	80	RB_1_low+1	64QAM	24.57
mid	3624.99	641666	80	RB_1_low+1	256QAM	22.59
mid	3624.99	641666	80	RB_1_high-1	16QAM	25.38
mid	3624.99	641666	80	RB_1_high-1	64QAM	24.03
mid	3624.99	641666	80	RB_1_high-1	256QAM	21.74
mid	3624.99	641666	80	RB_1_high	16QAM	25.62
mid	3624.99	641666	80	RB_1_high	64QAM	23.81
mid	3624.99	641666	80	RB_1_high	256QAM	21.96
mid	3624.99	641666	80	RB_50%_mid	16QAM	25.95
mid	3624.99	641666	80	RB_50%_mid	64QAM	24.43
mid	3624.99	641666	80	RB_50%_mid	256QAM	22.38
mid	3624.99	641666	80	RB_100%	16QAM	24.95
mid	3624.99	641666	80	RB_100%	64QAM	24.43
mid	3624.99	641666	80	RB_100%	256QAM	22.08
low	3740.01	649334	80	RB_1_low	BPSK	26.09
low	3740.01	649334	80	RB_1_low	QPSK	23.47
high	3660	644000	80	RB_1_low	16QAM	23.59
high	3660	644000	80	RB_1_low	64QAM	23.60
high	3660	644000	80	RB_1_low	256QAM	22.26
low	3740.01	649334	80	RB_1_low+1	BPSK	26.91
low	3740.01	649334	80	RB_1_low+1	QPSK	26.91
high	3660	644000	80	RB_1_low+1	16QAM	26.09
high	3660	644000	80	RB_1_low+1	64QAM	24.72
high	3660	644000	80	RB_1_low+1	256QAM	22.90
low	3740.01	649334	80	RB_1_high-1	BPSK	26.18
low	3740.01	649334	80	RB_1_high-1	QPSK	26.23
high	3660	644000	80	RB_1_high-1	16QAM	25.92
high	3660	644000	80	RB_1_high-1	64QAM	24.57
high	3660	644000	80	RB_1_high-1	256QAM	22.48
low	3740.01	649334	80	RB_1_high	BPSK	26.19
low	3740.01	649334	80	RB_1_high	QPSK	26.20
high	3660	644000	80	RB_1_high	16QAM	25.61
high	3660	644000	80	RB_1_high	64QAM	24.57
high	3660	644000	80	RB_1_high	256QAM	22.37

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3740.01	649334	80	RB_50%_mid	BPSK	26.77
low	3740.01	649334	80	RB_50%_mid	QPSK	26.72
high	3660	644000	80	RB_50%_mid	16QAM	25.86
high	3660	644000	80	RB_50%_mid	64QAM	23.99
high	3660	644000	80	RB_50%_mid	256QAM	22.31
low	3740.01	649334	80	RB_100%	BPSK	26.16
low	3740.01	649334	80	RB_100%	QPSK	25.64
high	3660	644000	80	RB_100%	16QAM	24.57
high	3660	644000	80	RB_100%	64QAM	24.62
high	3660	644000	80	RB_100%	256QAM	22.26
mid	3840	656000	80	RB_1_low	BPSK	26.09
mid	3840	656000	80	RB_1_low	QPSK	23.31
mid	3840	656000	80	RB_1_low+1	BPSK	26.69
mid	3840	656000	80	RB_1_low+1	QPSK	26.67
mid	3840	656000	80	RB_1_high-1	BPSK	26.24
mid	3840	656000	80	RB_1_high-1	QPSK	26.28
mid	3840	656000	80	RB_1_high	BPSK	26.21
mid	3840	656000	80	RB_1_high	QPSK	26.23
mid	3840	656000	80	RB_50%_mid	BPSK	26.63
mid	3840	656000	80	RB_50%_mid	QPSK	26.66
mid	3840	656000	80	RB_100%	BPSK	26.12
mid	3840	656000	80	RB_100%	QPSK	25.63
high	3939.99	662666	80	RB_1_low	BPSK	25.70
high	3939.99	662666	80	RB_1_low	QPSK	22.98
high	3939.99	662666	80	RB_1_low+1	BPSK	26.39
high	3939.99	662666	80	RB_1_low+1	QPSK	26.43
high	3939.99	662666	80	RB_1_high-1	BPSK	25.64
high	3939.99	662666	80	RB_1_high-1	QPSK	25.49
high	3939.99	662666	80	RB_1_high	BPSK	25.57
high	3939.99	662666	80	RB_1_high	QPSK	25.58
high	3939.99	662666	80	RB_50%_mid	BPSK	26.23
high	3939.99	662666	80	RB_50%_mid	QPSK	26.18
high	3939.99	662666	80	RB_100%	BPSK	25.68
high	3939.99	662666	80	RB_100%	QPSK	25.24
low	3590.01	639334	80	RB_1_low	BPSK	26.41
low	3590.01	639334	80	RB_1_low	QPSK	23.51
low	3590.01	639334	80	RB_1_low+1	BPSK	27.01
low	3590.01	639334	80	RB_1_low+1	QPSK	26.99
low	3590.01	639334	80	RB_1_high-1	BPSK	26.84
low	3590.01	639334	80	RB_1_high-1	QPSK	26.81
low	3590.01	639334	80	RB_1_high	BPSK	26.85
low	3590.01	639334	80	RB_1_high	QPSK	26.83
low	3590.01	639334	80	RB_50%_mid	BPSK	26.90
low	3590.01	639334	80	RB_50%_mid	QPSK	26.92
low	3590.01	639334	80	RB_100%	BPSK	26.46
low	3590.01	639334	80	RB_100%	QPSK	25.93

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3624.99	641666	80	RB_1_low	BPSK	26.36
mid	3624.99	641666	80	RB_1_low	QPSK	23.53
mid	3624.99	641666	80	RB_1_low+1	BPSK	27.07
mid	3624.99	641666	80	RB_1_low+1	QPSK	27.03
mid	3624.99	641666	80	RB_1_high-1	BPSK	26.66
mid	3624.99	641666	80	RB_1_high-1	QPSK	26.58
mid	3624.99	641666	80	RB_1_high	BPSK	26.64
mid	3624.99	641666	80	RB_1_high	QPSK	26.75
mid	3624.99	641666	80	RB_50%_mid	BPSK	26.96
mid	3624.99	641666	80	RB_50%_mid	QPSK	26.90
mid	3624.99	641666	80	RB_100%	BPSK	26.39
mid	3624.99	641666	80	RB_100%	QPSK	25.88
high	3660	644000	80	RB_1_low	BPSK	26.29
high	3660	644000	80	RB_1_low	QPSK	23.50
high	3660	644000	80	RB_1_low+1	BPSK	27.12
high	3660	644000	80	RB_1_low+1	QPSK	27.08
high	3660	644000	80	RB_1_high-1	BPSK	26.85
high	3660	644000	80	RB_1_high-1	QPSK	26.88
high	3660	644000	80	RB_1_high	BPSK	26.89
high	3660	644000	80	RB_1_high	QPSK	26.80
high	3660	644000	80	RB_50%_mid	BPSK	26.85
high	3660	644000	80	RB_50%_mid	QPSK	26.79
high	3660	644000	80	RB_100%	BPSK	26.34
high	3660	644000	80	RB_100%	QPSK	25.79
mid	3499.98	633332	80	RB_1_low	BPSK	26.17
mid	3499.98	633332	80	RB_1_low	QPSK	23.06
mid	3499.98	633332	80	RB_1_low+1	BPSK	26.61
mid	3499.98	633332	80	RB_1_low+1	QPSK	26.52
mid	3499.98	633332	80	RB_1_high-1	BPSK	26.82
mid	3499.98	633332	80	RB_1_high-1	QPSK	26.90
mid	3499.98	633332	80	RB_1_high	BPSK	26.84
mid	3499.98	633332	80	RB_1_high	QPSK	26.81
mid	3499.98	633332	80	RB_50%_mid	BPSK	26.78
mid	3499.98	633332	80	RB_50%_mid	QPSK	26.65
mid	3499.98	633332	80	RB_100%	BPSK	26.24
mid	3499.98	633332	80	RB_100%	QPSK	25.71
low	3490.02	632668	80	RB_1_low	BPSK	22.99
low	3490.02	632668	80	RB_1_low	QPSK	22.89
low	3490.02	632668	80	RB_1_low+1	BPSK	26.53
low	3490.02	632668	80	RB_1_low+1	QPSK	26.50
low	3490.02	632668	80	RB_1_high-1	BPSK	26.70
low	3490.02	632668	80	RB_1_high-1	QPSK	26.65
low	3490.02	632668	80	RB_1_high	BPSK	26.69
low	3490.02	632668	80	RB_1_high	QPSK	26.73
low	3490.02	632668	80	RB_50%_mid	BPSK	26.78
low	3490.02	632668	80	RB_50%_mid	QPSK	26.76

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3490.02	632668	80	RB_100%	BPSK	26.15
low	3490.02	632668	80	RB_100%	QPSK	25.82
high	3510	634000	80	RB_1_low	BPSK	26.28
high	3510	634000	80	RB_1_low	QPSK	23.06
mid	3499.98	633332	80	RB_1_low	16QAM	23.18
mid	3499.98	633332	80	RB_1_low	64QAM	23.02
mid	3499.98	633332	80	RB_1_low	256QAM	21.87
high	3510	634000	80	RB_1_low+1	BPSK	26.68
high	3510	634000	80	RB_1_low+1	QPSK	26.72
mid	3499.98	633332	80	RB_1_low+1	16QAM	25.58
mid	3499.98	633332	80	RB_1_low+1	64QAM	24.22
mid	3499.98	633332	80	RB_1_low+1	256QAM	22.16
high	3510	634000	80	RB_1_high-1	BPSK	26.93
high	3510	634000	80	RB_1_high-1	QPSK	26.89
mid	3499.98	633332	80	RB_1_high-1	16QAM	25.57
mid	3499.98	633332	80	RB_1_high-1	64QAM	24.41
mid	3499.98	633332	80	RB_1_high-1	256QAM	22.14
high	3510	634000	80	RB_1_high	BPSK	26.85
high	3510	634000	80	RB_1_high	QPSK	26.95
mid	3499.98	633332	80	RB_1_high	16QAM	25.81
mid	3499.98	633332	80	RB_1_high	64QAM	24.28
mid	3499.98	633332	80	RB_1_high	256QAM	22.23
high	3510	634000	80	RB_50%_mid	BPSK	26.79
high	3510	634000	80	RB_50%_mid	QPSK	26.78
mid	3499.98	633332	80	RB_50%_mid	16QAM	25.71
mid	3499.98	633332	80	RB_50%_mid	64QAM	24.11
mid	3499.98	633332	80	RB_50%_mid	256QAM	22.41
high	3510	634000	80	RB_100%	BPSK	26.20
high	3510	634000	80	RB_100%	QPSK	25.87
mid	3499.98	633332	80	RB_100%	16QAM	24.72
mid	3499.98	633332	80	RB_100%	64QAM	24.24
mid	3499.98	633332	80	RB_100%	256QAM	22.25
low	3490.02	632668	80	RB_1_low	16QAM	22.84
low	3490.02	632668	80	RB_1_low	64QAM	22.90
low	3490.02	632668	80	RB_1_low	256QAM	22.22
low	3490.02	632668	80	RB_1_low+1	16QAM	25.53
low	3490.02	632668	80	RB_1_low+1	64QAM	24.26
low	3490.02	632668	80	RB_1_low+1	256QAM	21.77
low	3490.02	632668	80	RB_1_high-1	16QAM	25.56
low	3490.02	632668	80	RB_1_high-1	64QAM	24.17
low	3490.02	632668	80	RB_1_high-1	256QAM	21.26
low	3490.02	632668	80	RB_1_high	16QAM	25.93
low	3490.02	632668	80	RB_1_high	64QAM	24.13
low	3490.02	632668	80	RB_1_high	256QAM	22.24
low	3490.02	632668	80	RB_50%_mid	16QAM	25.76
low	3490.02	632668	80	RB_50%_mid	64QAM	24.23
low	3490.02	632668	80	RB_50%_mid	256QAM	22.30

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3490.02	632668	80	RB_100%	16QAM	24.71
low	3490.02	632668	80	RB_100%	64QAM	24.29
low	3490.02	632668	80	RB_100%	256QAM	21.84
high	3510	634000	80	RB_1_low	16QAM	23.00
high	3510	634000	80	RB_1_low	64QAM	23.26
high	3510	634000	80	RB_1_low	256QAM	22.22
high	3510	634000	80	RB_1_low+1	16QAM	25.71
high	3510	634000	80	RB_1_low+1	64QAM	24.18
high	3510	634000	80	RB_1_low+1	256QAM	22.32
high	3510	634000	80	RB_1_high-1	16QAM	25.74
high	3510	634000	80	RB_1_high-1	64QAM	24.85
high	3510	634000	80	RB_1_high-1	256QAM	22.32
high	3510	634000	80	RB_1_high	16QAM	26.33
high	3510	634000	80	RB_1_high	64QAM	23.86
high	3510	634000	80	RB_1_high	256QAM	22.71
high	3510	634000	80	RB_50%_mid	16QAM	25.74
high	3510	634000	80	RB_50%_mid	64QAM	24.27
high	3510	634000	80	RB_50%_mid	256QAM	21.91
high	3510	634000	80	RB_100%	16QAM	24.72
high	3510	634000	80	RB_100%	64QAM	24.25
high	3510	634000	80	RB_100%	256QAM	22.36
low	3745.02	649668	90	RB_1_low	16QAM	23.42
low	3745.02	649668	90	RB_1_low	64QAM	23.51
low	3745.02	649668	90	RB_1_low	256QAM	22.76
low	3745.02	649668	90	RB_1_low+1	16QAM	25.89
low	3745.02	649668	90	RB_1_low+1	64QAM	24.94
low	3745.02	649668	90	RB_1_low+1	256QAM	22.64
low	3745.02	649668	90	RB_1_high-1	16QAM	25.39
low	3745.02	649668	90	RB_1_high-1	64QAM	23.93
low	3745.02	649668	90	RB_1_high-1	256QAM	22.30
low	3745.02	649668	90	RB_1_high	16QAM	25.45
low	3745.02	649668	90	RB_1_high	64QAM	24.01
low	3745.02	649668	90	RB_1_high	256QAM	21.97
low	3745.02	649668	90	RB_50%_mid	16QAM	25.83
low	3745.02	649668	90	RB_50%_mid	64QAM	24.39
low	3745.02	649668	90	RB_50%_mid	256QAM	22.26
low	3745.02	649668	90	RB_100%	16QAM	24.71
low	3745.02	649668	90	RB_100%	64QAM	24.25
low	3745.02	649668	90	RB_100%	256QAM	22.30
mid	3840	656000	90	RB_1_low	16QAM	23.15
mid	3840	656000	90	RB_1_low	64QAM	23.40
mid	3840	656000	90	RB_1_low	256QAM	22.36
mid	3840	656000	90	RB_1_low+1	16QAM	25.67
mid	3840	656000	90	RB_1_low+1	64QAM	24.13
mid	3840	656000	90	RB_1_low+1	256QAM	22.40

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3840	656000	90	RB_1_high-1	16QAM	25.38
mid	3840	656000	90	RB_1_high-1	64QAM	24.10
mid	3840	656000	90	RB_1_high-1	256QAM	22.19
mid	3840	656000	90	RB_1_high	16QAM	25.58
mid	3840	656000	90	RB_1_high	64QAM	23.96
mid	3840	656000	90	RB_1_high	256QAM	22.06
mid	3840	656000	90	RB_50%_mid	16QAM	25.72
mid	3840	656000	90	RB_50%_mid	64QAM	24.40
mid	3840	656000	90	RB_50%_mid	256QAM	22.20
mid	3840	656000	90	RB_100%	16QAM	24.63
mid	3840	656000	90	RB_100%	64QAM	24.18
mid	3840	656000	90	RB_100%	256QAM	**22.06**
high	3934.98	662332	90	RB_1_low	16QAM	23.08
high	3934.98	662332	90	RB_1_low	64QAM	22.99
high	3934.98	662332	90	RB_1_low	256QAM	22.10
high	3934.98	662332	90	RB_1_low+1	16QAM	25.54
high	3934.98	662332	90	RB_1_low+1	64QAM	24.06
high	3934.98	662332	90	RB_1_low+1	256QAM	22.17
high	3934.98	662332	90	RB_1_high-1	16QAM	24.88
high	3934.98	662332	90	RB_1_high-1	64QAM	23.28
high	3934.98	662332	90	RB_1_high-1	256QAM	**21.38**
high	3934.98	662332	90	RB_1_high	16QAM	24.61
high	3934.98	662332	90	RB_1_high	64QAM	23.18
high	3934.98	662332	90	RB_1_high	256QAM	21.15
high	3934.98	662332	90	RB_50%_mid	16QAM	25.17
high	3934.98	662332	90	RB_50%_mid	64QAM	24.00
high	3934.98	662332	90	RB_50%_mid	256QAM	21.79
high	3934.98	662332	90	RB_100%	16QAM	24.26
high	3934.98	662332	90	RB_100%	64QAM	23.69
high	3934.98	662332	90	RB_100%	256QAM	21.68
low	3595.02	639668	90	RB_1_low	16QAM	23.68
low	3595.02	639668	90	RB_1_low	64QAM	23.32
low	3595.02	639668	90	RB_1_low	256QAM	22.31
low	3595.02	639668	90	RB_1_low+1	16QAM	**26.11**
low	3595.02	639668	90	RB_1_low+1	64QAM	24.01
low	3595.02	639668	90	RB_1_low+1	256QAM	22.64
low	3595.02	639668	90	RB_1_high-1	16QAM	25.81
low	3595.02	639668	90	RB_1_high-1	64QAM	24.02
low	3595.02	639668	90	RB_1_high-1	256QAM	**22.28**
low	3595.02	639668	90	RB_1_high	16QAM	25.78
low	3595.02	639668	90	RB_1_high	64QAM	24.38
low	3595.02	639668	90	RB_1_high	256QAM	22.54
low	3595.02	639668	90	RB_50%_mid	16QAM	26.07
low	3595.02	639668	90	RB_50%_mid	64QAM	24.45
low	3595.02	639668	90	RB_50%_mid	256QAM	22.24

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3595.02	639668	90	RB_100%	16QAM	**24.90**
low	3595.02	639668	90	RB_100%	64QAM	24.41
low	3595.02	639668	90	RB_100%	256QAM	22.12
mid	3624.99	641666	90	RB_1_low	16QAM	23.39
mid	3624.99	641666	90	RB_1_low	64QAM	24.05
mid	3624.99	641666	90	RB_1_low	256QAM	22.86
mid	3624.99	641666	90	RB_1_low+1	16QAM	25.98
mid	3624.99	641666	90	RB_1_low+1	64QAM	24.28
mid	3624.99	641666	90	RB_1_low+1	256QAM	22.64
mid	3624.99	641666	90	RB_1_high-1	16QAM	25.80
mid	3624.99	641666	90	RB_1_high-1	64QAM	24.20
mid	3624.99	641666	90	RB_1_high-1	256QAM	**22.17**
mid	3624.99	641666	90	RB_1_high	16QAM	25.80
mid	3624.99	641666	90	RB_1_high	64QAM	24.09
mid	3624.99	641666	90	RB_1_high	256QAM	22.32
mid	3624.99	641666	90	RB_50%_mid	16QAM	25.45
mid	3624.99	641666	90	RB_50%_mid	64QAM	23.99
mid	3624.99	641666	90	RB_50%_mid	256QAM	22.23
mid	3624.99	641666	90	RB_100%	16QAM	24.87
mid	3624.99	641666	90	RB_100%	64QAM	24.45
mid	3624.99	641666	90	RB_100%	256QAM	22.51
high	3654.99	643666	90	RB_1_low	16QAM	23.09
high	3654.99	643666	90	RB_1_low	64QAM	23.39
high	3654.99	643666	90	RB_1_low	256QAM	21.91
high	3654.99	643666	90	RB_1_low+1	16QAM	25.74
high	3654.99	643666	90	RB_1_low+1	64QAM	24.24
high	3654.99	643666	90	RB_1_low+1	256QAM	21.99
high	3654.99	643666	90	RB_1_high-1	16QAM	**25.86**
high	3654.99	643666	90	RB_1_high-1	64QAM	24.46
high	3654.99	643666	90	RB_1_high-1	256QAM	22.73
high	3654.99	643666	90	RB_1_high	16QAM	25.70
high	3654.99	643666	90	RB_1_high	64QAM	23.87
high	3654.99	643666	90	RB_1_high	256QAM	22.47
high	3654.99	643666	90	RB_50%_mid	16QAM	25.85
high	3654.99	643666	90	RB_50%_mid	64QAM	24.43
high	3654.99	643666	90	RB_50%_mid	256QAM	22.65
high	3654.99	643666	90	RB_100%	16QAM	24.60
high	3654.99	643666	90	RB_100%	64QAM	24.35
high	3654.99	643666	90	RB_100%	256QAM	22.25
mid	3499.98	633332	90	RB_1_low	16QAM	22.98
mid	3499.98	633332	90	RB_1_low	64QAM	23.23
mid	3499.98	633332	90	RB_1_low	256QAM	21.82
mid	3499.98	633332	90	RB_1_low+1	16QAM	25.48
mid	3499.98	633332	90	RB_1_low+1	64QAM	24.09
mid	3499.98	633332	90	RB_1_low+1	256QAM	21.78

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3499.98	633332	90	RB_1_high-1	16QAM	25.82
mid	3499.98	633332	90	RB_1_high-1	64QAM	24.41
mid	3499.98	633332	90	RB_1_high-1	256QAM	22.51
mid	3499.98	633332	90	RB_1_high	16QAM	25.91
mid	3499.98	633332	90	RB_1_high	64QAM	24.81
mid	3499.98	633332	90	RB_1_high	256QAM	22.26
mid	3499.98	633332	90	RB_50%_mid	16QAM	25.82
mid	3499.98	633332	90	RB_50%_mid	64QAM	24.06
mid	3499.98	633332	90	RB_50%_mid	256QAM	22.31
mid	3499.98	633332	90	RB_100%	16QAM	24.73
mid	3499.98	633332	90	RB_100%	64QAM	23.90
mid	3499.98	633332	90	RB_100%	256QAM	22.49
low	3745.02	649668	90	RB_1_low	BPSK	23.37
low	3745.02	649668	90	RB_1_low	QPSK	23.49
low	3745.02	649668	90	RB_1_low+1	BPSK	26.86
low	3745.02	649668	90	RB_1_low+1	QPSK	26.94
low	3745.02	649668	90	RB_1_high-1	BPSK	26.42
low	3745.02	649668	90	RB_1_high-1	QPSK	26.42
low	3745.02	649668	90	RB_1_high	BPSK	26.41
low	3745.02	649668	90	RB_1_high	QPSK	26.42
low	3745.02	649668	90	RB_50%_mid	BPSK	26.77
low	3745.02	649668	90	RB_50%_mid	QPSK	26.87
low	3745.02	649668	90	RB_100%	BPSK	26.15
low	3745.02	649668	90	RB_100%	QPSK	25.70
mid	3840	656000	90	RB_1_low	BPSK	26.08
mid	3840	656000	90	RB_1_low	QPSK	23.26
mid	3840	656000	90	RB_1_low+1	BPSK	26.65
mid	3840	656000	90	RB_1_low+1	QPSK	26.67
mid	3840	656000	90	RB_1_high-1	BPSK	26.39
mid	3840	656000	90	RB_1_high-1	QPSK	26.38
mid	3840	656000	90	RB_1_high	BPSK	26.38
mid	3840	656000	90	RB_1_high	QPSK	26.37
mid	3840	656000	90	RB_50%_mid	BPSK	26.65
mid	3840	656000	90	RB_50%_mid	QPSK	26.63
mid	3840	656000	90	RB_100%	BPSK	26.11
mid	3840	656000	90	RB_100%	QPSK	25.57
high	3934.98	662332	90	RB_1_low	BPSK	25.65
high	3934.98	662332	90	RB_1_low	QPSK	22.94
high	3934.98	662332	90	RB_1_low+1	BPSK	26.31
high	3934.98	662332	90	RB_1_low+1	QPSK	26.35
high	3934.98	662332	90	RB_1_high-1	BPSK	25.59
high	3934.98	662332	90	RB_1_high-1	QPSK	25.66
high	3934.98	662332	90	RB_1_high	BPSK	25.55
high	3934.98	662332	90	RB_1_high	QPSK	25.57
high	3934.98	662332	90	RB_50%_mid	BPSK	26.16
high	3934.98	662332	90	RB_50%_mid	QPSK	26.21

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3934.98	662332	90	RB_100%	BPSK	25.65
high	3934.98	662332	90	RB_100%	QPSK	25.23
low	3595.02	639668	90	RB_1_low	BPSK	23.51
low	3595.02	639668	90	RB_1_low	QPSK	23.42
low	3595.02	639668	90	RB_1_low+1	BPSK	26.95
low	3595.02	639668	90	RB_1_low+1	QPSK	27.05
low	3595.02	639668	90	RB_1_high-1	BPSK	26.80
low	3595.02	639668	90	RB_1_high-1	QPSK	26.77
low	3595.02	639668	90	RB_1_high	BPSK	26.78
low	3595.02	639668	90	RB_1_high	QPSK	26.88
low	3595.02	639668	90	RB_50%_mid	BPSK	26.92
low	3595.02	639668	90	RB_50%_mid	QPSK	27.01
low	3595.02	639668	90	RB_100%	BPSK	26.39
low	3595.02	639668	90	RB_100%	QPSK	25.91
mid	3624.99	641666	90	RB_1_low	BPSK	26.42
mid	3624.99	641666	90	RB_1_low	QPSK	23.65
low	3495	633000	90	RB_1_low	16QAM	23.15
low	3495	633000	90	RB_1_low	64QAM	23.01
low	3495	633000	90	RB_1_low	256QAM	22.01
mid	3624.99	641666	90	RB_1_low+1	BPSK	27.14
mid	3624.99	641666	90	RB_1_low+1	QPSK	27.12
low	3495	633000	90	RB_1_low+1	16QAM	25.56
low	3495	633000	90	RB_1_low+1	64QAM	23.59
low	3495	633000	90	RB_1_low+1	256QAM	21.77
mid	3624.99	641666	90	RB_1_high-1	BPSK	26.85
mid	3624.99	641666	90	RB_1_high-1	QPSK	26.81
low	3495	633000	90	RB_1_high-1	16QAM	25.85
low	3495	633000	90	RB_1_high-1	64QAM	23.81
low	3495	633000	90	RB_1_high-1	256QAM	21.27
mid	3624.99	641666	90	RB_1_high	BPSK	26.85
mid	3624.99	641666	90	RB_1_high	QPSK	26.82
low	3495	633000	90	RB_1_high	16QAM	25.59
low	3495	633000	90	RB_1_high	64QAM	24.78
low	3495	633000	90	RB_1_high	256QAM	21.97
mid	3624.99	641666	90	RB_50%_mid	BPSK	26.77
mid	3624.99	641666	90	RB_50%_mid	QPSK	26.71
low	3495	633000	90	RB_50%_mid	16QAM	25.88
low	3495	633000	90	RB_50%_mid	64QAM	24.03
low	3495	633000	90	RB_50%_mid	256QAM	22.14
mid	3624.99	641666	90	RB_100%	BPSK	26.43
mid	3624.99	641666	90	RB_100%	QPSK	26.00
low	3495	633000	90	RB_100%	16QAM	24.72
low	3495	633000	90	RB_100%	64QAM	24.22
low	3495	633000	90	RB_100%	256QAM	21.80
high	3654.99	643666	90	RB_1_low	BPSK	26.30
high	3654.99	643666	90	RB_1_low	QPSK	23.17

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3654.99	643666	90	RB_1_low+1	BPSK	26.75
high	3654.99	643666	90	RB_1_low+1	QPSK	26.79
high	3654.99	643666	90	RB_1_high-1	BPSK	26.90
high	3654.99	643666	90	RB_1_high-1	QPSK	26.87
high	3654.99	643666	90	RB_1_high	BPSK	26.89
high	3654.99	643666	90	RB_1_high	QPSK	26.91
high	3654.99	643666	90	RB_50%_mid	BPSK	26.88
high	3654.99	643666	90	RB_50%_mid	QPSK	27.01
high	3654.99	643666	90	RB_100%	BPSK	26.36
high	3654.99	643666	90	RB_100%	QPSK	25.85
mid	3499.98	633332	90	RB_1_low	BPSK	26.24
mid	3499.98	633332	90	RB_1_low	QPSK	23.11
mid	3499.98	633332	90	RB_1_low+1	BPSK	26.51
mid	3499.98	633332	90	RB_1_low+1	QPSK	26.56
mid	3499.98	633332	90	RB_1_high-1	BPSK	26.87
mid	3499.98	633332	90	RB_1_high-1	QPSK	26.85
mid	3499.98	633332	90	RB_1_high	BPSK	26.84
mid	3499.98	633332	90	RB_1_high	QPSK	26.91
mid	3499.98	633332	90	RB_50%_mid	BPSK	26.67
mid	3499.98	633332	90	RB_50%_mid	QPSK	26.66
mid	3499.98	633332	90	RB_100%	BPSK	26.20
mid	3499.98	633332	90	RB_100%	QPSK	25.77
low	3495	633000	90	RB_1_low	BPSK	23.04
low	3495	633000	90	RB_1_low	QPSK	22.97
low	3495	633000	90	RB_1_low+1	BPSK	26.47
low	3495	633000	90	RB_1_low+1	QPSK	26.58
low	3495	633000	90	RB_1_high-1	BPSK	26.79
low	3495	633000	90	RB_1_high-1	QPSK	26.78
low	3495	633000	90	RB_1_high	BPSK	26.86
low	3495	633000	90	RB_1_high	QPSK	26.94
low	3495	633000	90	RB_50%_mid	BPSK	26.64
low	3495	633000	90	RB_50%_mid	QPSK	26.72
low	3495	633000	90	RB_100%	BPSK	26.17
low	3495	633000	90	RB_100%	QPSK	25.73
high	3504.99	633666	90	RB_1_low	BPSK	26.20
high	3504.99	633666	90	RB_1_low	QPSK	23.18
high	3504.99	633666	90	RB_1_low+1	BPSK	26.75
high	3504.99	633666	90	RB_1_low+1	QPSK	26.60
high	3504.99	633666	90	RB_1_high-1	BPSK	26.93
high	3504.99	633666	90	RB_1_high-1	QPSK	26.89
high	3504.99	633666	90	RB_1_high	BPSK	26.98
high	3504.99	633666	90	RB_1_high	QPSK	26.98
high	3504.99	633666	90	RB_50%_mid	BPSK	26.71
high	3504.99	633666	90	RB_50%_mid	QPSK	26.70
high	3504.99	633666	90	RB_100%	BPSK	26.28
high	3504.99	633666	90	RB_100%	QPSK	25.67

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3504.99	633666	90	RB_1_low	16QAM	22.98
high	3504.99	633666	90	RB_1_low	64QAM	23.49
high	3504.99	633666	90	RB_1_low	256QAM	22.26
high	3504.99	633666	90	RB_1_low+1	16QAM	25.90
high	3504.99	633666	90	RB_1_low+1	64QAM	24.21
high	3504.99	633666	90	RB_1_low+1	256QAM	22.04
high	3504.99	633666	90	RB_1_high-1	16QAM	25.85
high	3504.99	633666	90	RB_1_high-1	64QAM	24.17
high	3504.99	633666	90	RB_1_high-1	256QAM	22.77
high	3504.99	633666	90	RB_1_high	16QAM	26.00
high	3504.99	633666	90	RB_1_high	64QAM	24.64
high	3504.99	633666	90	RB_1_high	256QAM	22.46
high	3504.99	633666	90	RB_50%_mid	16QAM	25.82
high	3504.99	633666	90	RB_50%_mid	64QAM	24.26
high	3504.99	633666	90	RB_50%_mid	256QAM	22.24
high	3504.99	633666	90	RB_100%	16QAM	24.46
high	3504.99	633666	90	RB_100%	64QAM	24.32
high	3504.99	633666	90	RB_100%	256QAM	22.28
low	3750	650000	100	RB_1_low	16QAM	23.60
low	3750	650000	100	RB_1_low	64QAM	23.62
low	3750	650000	100	RB_1_low	256QAM	22.51
low	3750	650000	100	RB_1_low+1	16QAM	25.86
low	3750	650000	100	RB_1_low+1	64QAM	24.17
low	3750	650000	100	RB_1_low+1	256QAM	22.31
low	3750	650000	100	RB_1_high-1	16QAM	25.35
low	3750	650000	100	RB_1_high-1	64QAM	23.82
low	3750	650000	100	RB_1_high-1	256QAM	21.97
low	3750	650000	100	RB_1_high	16QAM	25.35
low	3750	650000	100	RB_1_high	64QAM	23.92
low	3750	650000	100	RB_1_high	256QAM	21.80
low	3750	650000	100	RB_50%_mid	16QAM	25.77
low	3750	650000	100	RB_50%_mid	64QAM	24.14
low	3750	650000	100	RB_50%_mid	256QAM	22.17
low	3750	650000	100	RB_100%	16QAM	24.88
low	3750	650000	100	RB_100%	64QAM	24.20
low	3750	650000	100	RB_100%	256QAM	22.18
mid	3840	656000	100	RB_1_low	16QAM	23.53
mid	3840	656000	100	RB_1_low	64QAM	23.33
mid	3840	656000	100	RB_1_low	256QAM	22.46
mid	3840	656000	100	RB_1_low+1	16QAM	25.80
mid	3840	656000	100	RB_1_low+1	64QAM	24.49
mid	3840	656000	100	RB_1_low+1	256QAM	22.36
mid	3840	656000	100	RB_1_high-1	16QAM	25.53
mid	3840	656000	100	RB_1_high-1	64QAM	23.96
mid	3840	656000	100	RB_1_high-1	256QAM	21.95

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3840	656000	100	RB_1_high	16QAM	25.53
mid	3840	656000	100	RB_1_high	64QAM	23.96
mid	3840	656000	100	RB_1_high	256QAM	21.81
mid	3840	656000	100	RB_50%_mid	16QAM	25.65
mid	3840	656000	100	RB_50%_mid	64QAM	24.14
mid	3840	656000	100	RB_50%_mid	256QAM	22.24
mid	3840	656000	100	RB_100%	16QAM	24.69
mid	3840	656000	100	RB_100%	64QAM	24.17
mid	3840	656000	100	RB_100%	256QAM	22.18
high	3930	662000	100	RB_1_low	16QAM	22.99
high	3930	662000	100	RB_1_low	64QAM	22.98
high	3930	662000	100	RB_1_low	256QAM	22.06
high	3930	662000	100	RB_1_low+1	16QAM	25.43
high	3930	662000	100	RB_1_low+1	64QAM	24.07
high	3930	662000	100	RB_1_low+1	256QAM	21.98
high	3930	662000	100	RB_1_high-1	16QAM	24.67
high	3930	662000	100	RB_1_high-1	64QAM	23.17
high	3930	662000	100	RB_1_high-1	256QAM	21.25
high	3930	662000	100	RB_1_high	16QAM	24.82
high	3930	662000	100	RB_1_high	64QAM	23.24
high	3930	662000	100	RB_1_high	256QAM	21.46
high	3930	662000	100	RB_50%_mid	16QAM	25.20
high	3930	662000	100	RB_50%_mid	64QAM	23.79
high	3930	662000	100	RB_50%_mid	256QAM	21.77
high	3930	662000	100	RB_100%	16QAM	24.22
high	3930	662000	100	RB_100%	64QAM	23.74
high	3930	662000	100	RB_100%	256QAM	21.77
low	3600	640000	100	RB_1_low	16QAM	23.49
low	3600	640000	100	RB_1_low	64QAM	23.64
low	3600	640000	100	RB_1_low	256QAM	22.40
low	3600	640000	100	RB_1_low+1	16QAM	26.04
low	3600	640000	100	RB_1_low+1	64QAM	24.77
low	3600	640000	100	RB_1_low+1	256QAM	22.22
low	3600	640000	100	RB_1_high-1	16QAM	25.71
low	3600	640000	100	RB_1_high-1	64QAM	24.30
low	3600	640000	100	RB_1_high-1	256QAM	22.36
low	3600	640000	100	RB_1_high	16QAM	25.90
low	3600	640000	100	RB_1_high	64QAM	24.45
low	3600	640000	100	RB_1_high	256QAM	22.41
low	3600	640000	100	RB_50%_mid	16QAM	26.12
low	3600	640000	100	RB_50%_mid	64QAM	24.42
low	3600	640000	100	RB_50%_mid	256QAM	22.06
low	3600	640000	100	RB_100%	16QAM	24.89
low	3600	640000	100	RB_100%	64QAM	24.36
low	3600	640000	100	RB_100%	256QAM	22.31

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3624.99	641666	100	RB_1_low	16QAM	23.62
mid	3624.99	641666	100	RB_1_low	64QAM	23.45
mid	3624.99	641666	100	RB_1_low	256QAM	22.56
mid	3624.99	641666	100	RB_1_low+1	16QAM	25.62
mid	3624.99	641666	100	RB_1_low+1	64QAM	24.42
mid	3624.99	641666	100	RB_1_low+1	256QAM	22.80
mid	3624.99	641666	100	RB_1_high-1	16QAM	25.93
mid	3624.99	641666	100	RB_1_high-1	64QAM	24.20
mid	3624.99	641666	100	RB_1_high-1	256QAM	22.36
mid	3624.99	641666	100	RB_1_high	16QAM	25.83
mid	3624.99	641666	100	RB_1_high	64QAM	24.29
mid	3624.99	641666	100	RB_1_high	256QAM	22.29
mid	3624.99	641666	100	RB_50%_mid	16QAM	25.90
mid	3624.99	641666	100	RB_50%_mid	64QAM	24.48
mid	3624.99	641666	100	RB_50%_mid	256QAM	22.33
mid	3624.99	641666	100	RB_100%	16QAM	24.93
mid	3624.99	641666	100	RB_100%	64QAM	24.60
mid	3624.99	641666	100	RB_100%	256QAM	22.14
high	3649.98	643332	100	RB_1_low	16QAM	23.25
high	3649.98	643332	100	RB_1_low	64QAM	23.66
high	3649.98	643332	100	RB_1_low	256QAM	22.45
high	3649.98	643332	100	RB_1_low+1	16QAM	25.84
high	3649.98	643332	100	RB_1_low+1	64QAM	24.07
high	3649.98	643332	100	RB_1_low+1	256QAM	22.42
high	3649.98	643332	100	RB_1_high-1	16QAM	25.36
high	3649.98	643332	100	RB_1_high-1	64QAM	24.22
high	3649.98	643332	100	RB_1_high-1	256QAM	22.33
high	3649.98	643332	100	RB_1_high	16QAM	26.19
high	3649.98	643332	100	RB_1_high	64QAM	24.30
high	3649.98	643332	100	RB_1_high	256QAM	22.26
high	3649.98	643332	100	RB_50%_mid	16QAM	25.92
high	3649.98	643332	100	RB_50%_mid	64QAM	24.69
high	3649.98	643332	100	RB_50%_mid	256QAM	22.38
high	3649.98	643332	100	RB_100%	16QAM	25.05
high	3649.98	643332	100	RB_100%	64QAM	24.41
high	3649.98	643332	100	RB_100%	256QAM	22.26
mid	3499.98	633332	100	RB_1_low	16QAM	23.21
mid	3499.98	633332	100	RB_1_low	64QAM	22.48
mid	3499.98	633332	100	RB_1_low	256QAM	21.85
mid	3499.98	633332	100	RB_1_low+1	16QAM	25.63
mid	3499.98	633332	100	RB_1_low+1	64QAM	23.85
mid	3499.98	633332	100	RB_1_low+1	256QAM	21.98
mid	3499.98	633332	100	RB_1_high-1	16QAM	26.07
mid	3499.98	633332	100	RB_1_high-1	64QAM	24.56
mid	3499.98	633332	100	RB_1_high-1	256QAM	23.29

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3499.98	633332	100	RB_1_high	16QAM	26.22
mid	3499.98	633332	100	RB_1_high	64QAM	24.59
mid	3499.98	633332	100	RB_1_high	256QAM	22.59
mid	3499.98	633332	100	RB_50%_mid	16QAM	25.74
mid	3499.98	633332	100	RB_50%_mid	64QAM	24.25
mid	3499.98	633332	100	RB_50%_mid	256QAM	21.79
mid	3499.98	633332	100	RB_100%	16QAM	24.76
mid	3499.98	633332	100	RB_100%	64QAM	24.29
mid	3499.98	633332	100	RB_100%	256QAM	22.27
mid	3499.98	633332	100	RB_1_low	BPSK	26.25
mid	3499.98	633332	100	RB_1_low	QPSK	23.11
mid	3499.98	633332	100	RB_1_low+1	BPSK	26.55
mid	3499.98	633332	100	RB_1_low+1	QPSK	26.55
mid	3499.98	633332	100	RB_1_high-1	BPSK	26.97
mid	**3499.98**	**633332**	**100**	**RB_1_high-1**	**QPSK**	**27.00**
mid	3499.98	633332	100	RB_1_high	BPSK	26.94
mid	3499.98	633332	100	RB_1_high	QPSK	26.97
mid	3499.98	633332	100	RB_50%_mid	BPSK	26.80
mid	3499.98	633332	100	RB_50%_mid	QPSK	26.75
mid	3499.98	633332	100	RB_100%	BPSK	26.28
mid	3499.98	633332	100	RB_100%	QPSK	25.77
low	3600	640000	100	RB_1_low	BPSK	23.48
low	3600	640000	100	RB_1_low	QPSK	23.52
low	3600	640000	100	RB_1_low+1	BPSK	26.94
low	**3600**	**640000**	**100**	**RB_1_low+1**	**QPSK**	27.00
low	3600	640000	100	RB_1_high-1	BPSK	26.84
low	3600	640000	100	RB_1_high-1	QPSK	26.76
low	3600	640000	100	RB_1_high	BPSK	26.88
low	3600	640000	100	RB_1_high	QPSK	26.84
low	3600	640000	100	RB_50%_mid	BPSK	26.81
low	3600	640000	100	RB_50%_mid	QPSK	26.87
low	3600	640000	100	RB_100%	BPSK	26.36
low	3600	640000	100	RB_100%	QPSK	25.87
mid	3624.99	641666	100	RB_1_low	BPSK	26.44
mid	3624.99	641666	100	RB_1_low	QPSK	23.59
mid	3624.99	641666	100	RB_1_low+1	BPSK	26.98
mid	**3624.99**	**641666**	**100**	**RB_1_low+1**	**QPSK**	27.02
mid	3624.99	641666	100	RB_1_high-1	BPSK	26.88
mid	3624.99	641666	100	RB_1_high-1	QPSK	26.85
mid	3624.99	641666	100	RB_1_high	BPSK	26.91
mid	3624.99	641666	100	RB_1_high	QPSK	27.02
mid	3624.99	641666	100	RB_50%_mid	BPSK	26.97
mid	3624.99	641666	100	RB_50%_mid	QPSK	26.97
mid	3624.99	641666	100	RB_100%	BPSK	26.45
mid	3624.99	641666	100	RB_100%	QPSK	25.97
high	3649.98	643332	100	RB_1_low	BPSK	26.33
high	3649.98	643332	100	RB_1_low	QPSK	23.37

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3649.98	643332	100	RB_1_low+1	BPSK	26.82
high	3649.98	643332	100	RB_1_low+1	QPSK	26.96
high	3649.98	643332	100	RB_1_high-1	BPSK	26.76
high	3649.98	643332	100	RB_1_high-1	QPSK	26.79
high	**3649.98**	**643332**	**100**	**RB_1_high**	**BPSK**	**26.96**
high	3649.98	643332	100	RB_1_high	QPSK	26.90
high	3649.98	643332	100	RB_50%_mid	BPSK	26.89
high	3649.98	643332	100	RB_50%_mid	QPSK	26.88
high	3649.98	643332	100	RB_100%	BPSK	26.35
high	3649.98	643332	100	RB_100%	QPSK	25.85
low	3750	650000	100	RB_1_low	BPSK	26.14
low	3750	650000	100	RB_1_low	QPSK	23.41
low	3750	650000	100	RB_1_low+1	BPSK	26.87
low	**3750**	**650000**	**100**	**RB_1_low+1**	**QPSK**	**26.89**
low	3750	650000	100	RB_1_high-1	BPSK	26.37
low	3750	650000	100	RB_1_high-1	QPSK	26.36
low	3750	650000	100	RB_1_high	BPSK	26.33
low	3750	650000	100	RB_1_high	QPSK	26.34
low	**3750**	**650000**	**100**	**RB_50%_mid**	**BPSK**	**26.65**
low	3750	650000	100	RB_50%_mid	QPSK	26.62
low	3750	650000	100	RB_100%	BPSK	26.19
low	3750	650000	100	RB_100%	QPSK	25.68
mid	3840	656000	100	RB_1_low	BPSK	26.10
mid	3840	656000	100	RB_1_low	QPSK	23.31
mid	**3840**	**656000**	**100**	**RB_1_low+1**	**BPSK**	**26.75**
mid	3840	656000	100	RB_1_low+1	QPSK	26.72
mid	3840	656000	100	RB_1_high-1	BPSK	26.40
mid	3840	656000	100	RB_1_high-1	QPSK	26.37
mid	3840	656000	100	RB_1_high	BPSK	26.38
mid	3840	656000	100	RB_1_high	QPSK	26.33
mid	3840	656000	100	RB_50%_mid	BPSK	26.62
mid	3840	656000	100	RB_50%_mid	QPSK	26.64
mid	3840	656000	100	RB_100%	BPSK	26.11
mid	3840	656000	100	RB_100%	QPSK	25.55
high	3930	662000	100	RB_1_low	BPSK	25.65
high	3930	662000	100	RB_1_low	QPSK	22.91
high	3930	662000	100	RB_1_low+1	BPSK	26.43
high	**3930**	**662000**	**100**	**RB_1_low+1**	**QPSK**	**26.44**
high	3930	662000	100	RB_1_high-1	BPSK	25.63
high	3930	662000	100	RB_1_high-1	QPSK	25.71
high	3930	662000	100	RB_1_high	BPSK	25.63
high	3930	662000	100	RB_1_high	QPSK	25.62
high	3930	662000	100	RB_50%_mid	BPSK	26.21
high	3930	662000	100	RB_50%_mid	QPSK	26.18
high	3930	662000	100	RB_100%	BPSK	25.72
high	3930	662000	100	RB_100%	QPSK	25.21

Table 34: Test results conducted power measurement 5G NR TDD n77 3700 MHz.

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3310.02	620668	20	RB_1_low	BPSK	25.25
low	3310.02	620668	20	RB_1_low	QPSK	22.13
low	3310.02	620668	20	RB_1_low+1	BPSK	25.60
low	3310.02	620668	20	RB_1_low+1	QPSK	25.66
low	3310.02	620668	20	RB_1_high-1	BPSK	25.73
low	3310.02	620668	20	RB_1_high-1	QPSK	25.73
low	3310.02	620668	20	RB_1_high	BPSK	25.72
low	3310.02	620668	20	RB_1_high	QPSK	25.72
low	3310.02	620668	20	RB_50%_mid	BPSK	25.73
low	3310.02	620668	20	RB_50%_mid	QPSK	25.68
low	3310.02	620668	20	RB_100%	BPSK	25.27
low	3310.02	620668	20	RB_100%	QPSK	24.71
mid	3383.49	625566	20	RB_1_low	BPSK	25.52
mid	3383.49	625566	20	RB_1_low	QPSK	22.46
mid	3383.49	625566	20	RB_1_low+1	BPSK	26.09
mid	3383.49	625566	20	RB_1_low+1	QPSK	26.08
mid	3383.49	625566	20	RB_1_high-1	BPSK	26.10
mid	3383.49	625566	20	RB_1_high-1	QPSK	26.13
mid	3383.49	625566	20	RB_1_high	BPSK	26.24
mid	3383.49	625566	20	RB_1_high	QPSK	26.14
mid	3383.49	625566	20	RB_50%_mid	BPSK	26.00
mid	3383.49	625566	20	RB_50%_mid	QPSK	25.95
mid	3383.49	625566	20	RB_100%	BPSK	25.45
mid	3383.49	625566	20	RB_100%	QPSK	25.08
high	3456.99	630466	20	RB_1_low	BPSK	26.07
high	3456.99	630466	20	RB_1_low	QPSK	22.97
high	3456.99	630466	20	RB_1_low+1	BPSK	26.52
high	3456.99	630466	20	RB_1_low+1	QPSK	26.48
high	3456.99	630466	20	RB_1_high-1	BPSK	26.67
high	3456.99	630466	20	RB_1_high-1	QPSK	26.58
high	3456.99	630466	20	RB_1_high	BPSK	26.64
high	3456.99	630466	20	RB_1_high	QPSK	26.65
high	3456.99	630466	20	RB_50%_mid	BPSK	26.52
high	3456.99	630466	20	RB_50%_mid	QPSK	26.53
high	3456.99	630466	20	RB_100%	BPSK	26.03
high	3456.99	630466	20	RB_100%	QPSK	25.51
mid	3550.5	636700	20	RB_1_low	BPSK	26.39
mid	3550.5	636700	20	RB_1_low	QPSK	23.48
mid	3550.5	636700	20	RB_1_low+1	BPSK	26.91
mid	3550.5	636700	20	RB_1_low+1	QPSK	26.97
mid	3550.5	636700	20	RB_1_high-1	BPSK	26.93
mid	3550.5	636700	20	RB_1_high-1	QPSK	26.97
mid	3550.5	636700	20	RB_1_high	BPSK	26.92
mid	3550.5	636700	20	RB_1_high	QPSK	26.99
mid	3550.5	636700	20	RB_50%_mid	BPSK	26.83
mid	3550.5	636700	20	RB_50%_mid	QPSK	26.85
mid	3550.5	636700	20	RB_100%	BPSK	26.46
mid	3550.5	636700	20	RB_100%	QPSK	25.93

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3644.01	642934	20	RB_1_low	BPSK	26.40
low	3644.01	642934	20	RB_1_low	QPSK	23.49
low	3644.01	642934	20	RB_1_low+1	BPSK	26.93
low	3644.01	642934	20	RB_1_low+1	QPSK	27.00
low	3644.01	642934	20	RB_1_high-1	BPSK	26.81
low	3644.01	642934	20	RB_1_high-1	QPSK	26.81
low	3644.01	642934	20	RB_1_high	BPSK	26.84
low	3644.01	642934	20	RB_1_high	QPSK	26.85
low	3644.01	642934	20	RB_50%_mid	BPSK	26.92
low	3644.01	642934	20	RB_50%_mid	QPSK	26.92
low	3644.01	642934	20	RB_100%	BPSK	26.36
low	3644.01	642934	20	RB_100%	QPSK	25.85
mid	3717	647800	20	RB_1_low	BPSK	26.02
mid	3717	647800	20	RB_1_low	QPSK	23.13
mid	3717	647800	20	RB_1_low+1	BPSK	26.74
mid	3717	647800	20	RB_1_low+1	QPSK	26.67
mid	3717	647800	20	RB_1_high-1	BPSK	26.63
mid	3717	647800	20	RB_1_high-1	QPSK	26.62
mid	3717	647800	20	RB_1_high	BPSK	26.65
mid	3717	647800	20	RB_1_high	QPSK	26.54
mid	3717	647800	20	RB_50%_mid	BPSK	26.51
mid	3717	647800	20	RB_50%_mid	QPSK	26.52
mid	3717	647800	20	RB_100%	BPSK	26.07
mid	3717	647800	20	RB_100%	QPSK	25.61
high	3789.99	652666	20	RB_1_low	BPSK	25.65
high	3789.99	652666	20	RB_1_low	QPSK	22.85
low	3310.02	620668	20	RB_1_low	16QAM	22.30
low	3310.02	620668	20	RB_1_low	64QAM	22.06
low	3310.02	620668	20	RB_1_low	256QAM	20.90
high	3789.99	652666	20	RB_1_low+1	BPSK	25.94
high	3789.99	652666	20	RB_1_low+1	QPSK	25.87
low	3310.02	620668	20	RB_1_low+1	16QAM	24.68
low	3310.02	620668	20	RB_1_low+1	64QAM	23.54
low	3310.02	620668	20	RB_1_low+1	256QAM	21.09
high	3789.99	652666	20	RB_1_high-1	BPSK	26.01
high	3789.99	652666	20	RB_1_high-1	QPSK	25.97
low	3310.02	620668	20	RB_1_high-1	16QAM	24.98
low	3310.02	620668	20	RB_1_high-1	64QAM	23.78
low	3310.02	620668	20	RB_1_high-1	256QAM	21.20
high	3789.99	652666	20	RB_1_high	BPSK	26.04
high	3789.99	652666	20	RB_1_high	QPSK	25.98
low	3310.02	620668	20	RB_1_high	16QAM	24.89
low	3310.02	620668	20	RB_1_high	64QAM	23.08
low	3310.02	620668	20	RB_1_high	256QAM	21.57

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3789.99	652666	20	RB_50%_mid	BPSK	26.13
high	3789.99	652666	20	RB_50%_mid	QPSK	26.03
low	3310.02	620668	20	RB_50%_mid	16QAM	24.70
low	3310.02	620668	20	RB_50%_mid	64QAM	23.23
low	3310.02	620668	20	RB_50%_mid	256QAM	21.32
high	3789.99	652666	20	RB_100%	BPSK	25.63
high	3789.99	652666	20	RB_100%	QPSK	25.13
low	3310.02	620668	20	RB_100%	16QAM	23.61
low	3310.02	620668	20	RB_100%	64QAM	23.20
low	3310.02	620668	20	RB_100%	256QAM	21.36
mid	3383.49	625566	20	RB_1_low	16QAM	22.91
mid	3383.49	625566	20	RB_1_low	64QAM	22.69
mid	3383.49	625566	20	RB_1_low	256QAM	21.29
mid	3383.49	625566	20	RB_1_low+1	16QAM	25.06
mid	3383.49	625566	20	RB_1_low+1	64QAM	23.66
mid	3383.49	625566	20	RB_1_low+1	256QAM	21.24
mid	3383.49	625566	20	RB_1_high-1	16QAM	25.26
mid	3383.49	625566	20	RB_1_high-1	64QAM	23.58
mid	3383.49	625566	20	RB_1_high-1	256QAM	21.65
mid	3383.49	625566	20	RB_1_high	16QAM	25.27
mid	3383.49	625566	20	RB_1_high	64QAM	23.94
mid	3383.49	625566	20	RB_1_high	256QAM	21.78
mid	3383.49	625566	20	RB_50%_mid	16QAM	25.00
mid	3383.49	625566	20	RB_50%_mid	64QAM	23.48
mid	3383.49	625566	20	RB_50%_mid	256QAM	21.05
mid	3383.49	625566	20	RB_100%	16QAM	24.11
mid	3383.49	625566	20	RB_100%	64QAM	23.40
mid	3383.49	625566	20	RB_100%	256QAM	21.53
high	3456.99	630466	20	RB_1_low	16QAM	23.15
high	3456.99	630466	20	RB_1_low	64QAM	23.05
high	3456.99	630466	20	RB_1_low	256QAM	21.64
high	3456.99	630466	20	RB_1_low+1	16QAM	25.36
high	3456.99	630466	20	RB_1_low+1	64QAM	24.08
high	3456.99	630466	20	RB_1_low+1	256QAM	22.22
high	3456.99	630466	20	RB_1_high-1	16QAM	25.37
high	3456.99	630466	20	RB_1_high-1	64QAM	24.18
high	3456.99	630466	20	RB_1_high-1	256QAM	22.05
high	3456.99	630466	20	RB_1_high	16QAM	25.80
high	3456.99	630466	20	RB_1_high	64QAM	24.16
high	3456.99	630466	20	RB_1_high	256QAM	22.37
high	3456.99	630466	20	RB_50%_mid	16QAM	25.50
high	3456.99	630466	20	RB_50%_mid	64QAM	24.12
high	3456.99	630466	20	RB_50%_mid	256QAM	22.04
high	3456.99	630466	20	RB_100%	16QAM	24.55
high	3456.99	630466	20	RB_100%	64QAM	24.03
high	3456.99	630466	20	RB_100%	256QAM	22.04

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3550.5	636700	20	RB_1_low	16QAM	23.61
mid	3550.5	636700	20	RB_1_low	64QAM	23.45
mid	3550.5	636700	20	RB_1_low	256QAM	22.38
mid	3550.5	636700	20	RB_1_low+1	16QAM	26.08
mid	3550.5	636700	20	RB_1_low+1	64QAM	24.61
mid	3550.5	636700	20	RB_1_low+1	256QAM	22.44
mid	3550.5	636700	20	RB_1_high-1	16QAM	25.90
mid	3550.5	636700	20	RB_1_high-1	64QAM	24.94
mid	3550.5	636700	20	RB_1_high-1	256QAM	22.00
mid	3550.5	636700	20	RB_1_high	16QAM	25.83
mid	3550.5	636700	20	RB_1_high	64QAM	24.44
mid	3550.5	636700	20	RB_1_high	256QAM	22.63
mid	3550.5	636700	20	RB_50%_mid	16QAM	26.00
mid	3550.5	636700	20	RB_50%_mid	64QAM	24.50
mid	3550.5	636700	20	RB_50%_mid	256QAM	22.36
mid	3550.5	636700	20	RB_100%	16QAM	24.95
mid	3550.5	636700	20	RB_100%	64QAM	24.41
mid	3550.5	636700	20	RB_100%	256QAM	22.31
low	3644.01	642934	20	RB_1_low	16QAM	23.63
low	3644.01	642934	20	RB_1_low	64QAM	23.48
low	3644.01	642934	20	RB_1_low	256QAM	22.62
low	3644.01	642934	20	RB_1_low+1	16QAM	25.86
low	3644.01	642934	20	RB_1_low+1	64QAM	24.29
low	3644.01	642934	20	RB_1_low+1	256QAM	22.65
low	3644.01	642934	20	RB_1_high-1	16QAM	26.07
low	3644.01	642934	20	RB_1_high-1	64QAM	24.32
low	3644.01	642934	20	RB_1_high-1	256QAM	22.80
low	3644.01	642934	20	RB_1_high	16QAM	25.56
low	3644.01	642934	20	RB_1_high	64QAM	24.51
low	3644.01	642934	20	RB_1_high	256QAM	22.17
low	3644.01	642934	20	RB_50%_mid	16QAM	25.93
low	3644.01	642934	20	RB_50%_mid	64QAM	24.27
low	3644.01	642934	20	RB_50%_mid	256QAM	22.46
low	3644.01	642934	20	RB_100%	16QAM	24.72
low	3644.01	642934	20	RB_100%	64QAM	24.30
low	3644.01	642934	20	RB_100%	256QAM	22.45
mid	3717	647800	20	RB_1_low	16QAM	23.04
mid	3717	647800	20	RB_1_low	64QAM	23.20
mid	3717	647800	20	RB_1_low	256QAM	22.35
mid	3717	647800	20	RB_1_low+1	16QAM	25.55
mid	3717	647800	20	RB_1_low+1	64QAM	23.95
mid	3717	647800	20	RB_1_low+1	256QAM	22.31
mid	3717	647800	20	RB_1_high-1	16QAM	25.47
mid	3717	647800	20	RB_1_high-1	64QAM	24.08
mid	3717	647800	20	RB_1_high-1	256QAM	22.18

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3717	647800	20	RB_1_high	16QAM	25.66
mid	3717	647800	20	RB_1_high	64QAM	24.32
mid	3717	647800	20	RB_1_high	256QAM	22.13
mid	3717	647800	20	RB_50%_mid	16QAM	25.41
mid	3717	647800	20	RB_50%_mid	64QAM	24.24
mid	3717	647800	20	RB_50%_mid	256QAM	21.94
mid	3717	647800	20	RB_100%	16QAM	24.48
mid	3717	647800	20	RB_100%	64QAM	24.20
mid	3717	647800	20	RB_100%	256QAM	22.13
high	3789.99	652666	20	RB_1_low	16QAM	23.39
high	3789.99	652666	20	RB_1_low	64QAM	23.38
high	3789.99	652666	20	RB_1_low	256QAM	21.94
high	3789.99	652666	20	RB_1_low+1	16QAM	25.13
high	3789.99	652666	20	RB_1_low+1	64QAM	24.14
high	3789.99	652666	20	RB_1_low+1	256QAM	22.11
high	3789.99	652666	20	RB_1_high-1	16QAM	25.12
high	3789.99	652666	20	RB_1_high-1	64QAM	24.23
high	3789.99	652666	20	RB_1_high-1	256QAM	22.18
high	3789.99	652666	20	RB_1_high	16QAM	25.13
high	3789.99	652666	20	RB_1_high	64QAM	24.23
high	3789.99	652666	20	RB_1_high	256QAM	22.54
high	3789.99	652666	20	RB_50%_mid	16QAM	25.37
high	3789.99	652666	20	RB_50%_mid	64QAM	24.07
high	3789.99	652666	20	RB_50%_mid	256QAM	22.28
high	3789.99	652666	20	RB_100%	16QAM	24.44
high	3789.99	652666	20	RB_100%	64QAM	24.02
high	3789.99	652666	20	RB_100%	256QAM	22.29
low	3320.01	621334	40	RB_1_low	16QAM	22.30
low	3320.01	621334	40	RB_1_low	64QAM	22.61
low	3320.01	621334	40	RB_1_low	256QAM	21.06
low	3320.01	621334	40	RB_1_low+1	16QAM	24.72
low	3320.01	621334	40	RB_1_low+1	64QAM	23.45
low	3320.01	621334	40	RB_1_low+1	256QAM	20.85
low	3320.01	621334	40	RB_1_high-1	16QAM	24.45
low	3320.01	621334	40	RB_1_high-1	64QAM	22.91
low	3320.01	621334	40	RB_1_high-1	256QAM	21.20
low	3320.01	621334	40	RB_1_high	16QAM	24.39
low	3320.01	621334	40	RB_1_high	64QAM	23.19
low	3320.01	621334	40	RB_1_high	256QAM	20.98
low	3320.01	621334	40	RB_50%_mid	16QAM	24.77
low	3320.01	621334	40	RB_50%_mid	64QAM	23.20
low	3320.01	621334	40	RB_50%_mid	256QAM	21.28
low	3320.01	621334	40	RB_100%	16QAM	23.62
low	3320.01	621334	40	RB_100%	64QAM	23.32
low	3320.01	621334	40	RB_100%	256QAM	21.15

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3320.01	621334	40	RB_1_low	BPSK	25.16
low	3320.01	621334	40	RB_1_low	QPSK	22.14
low	3320.01	621334	40	RB_1_low+1	BPSK	25.81
low	3320.01	621334	40	RB_1_low+1	QPSK	25.79
low	3320.01	621334	40	RB_1_high-1	BPSK	25.58
low	3320.01	621334	40	RB_1_high-1	QPSK	25.53
low	3320.01	621334	40	RB_1_high	BPSK	25.60
low	3320.01	621334	40	RB_1_high	QPSK	25.45
low	3320.01	621334	40	RB_50%_mid	BPSK	25.65
low	3320.01	621334	40	RB_50%_mid	QPSK	25.67
low	3320.01	621334	40	RB_100%	BPSK	25.19
low	3320.01	621334	40	RB_100%	QPSK	24.64
mid	3383.49	625566	40	RB_1_low	BPSK	25.52
mid	3383.49	625566	40	RB_1_low	QPSK	22.35
mid	3383.49	625566	40	RB_1_low+1	BPSK	26.06
mid	3383.49	625566	40	RB_1_low+1	QPSK	25.83
mid	3383.49	625566	40	RB_1_high-1	BPSK	25.96
mid	3383.49	625566	40	RB_1_high-1	QPSK	25.97
mid	3383.49	625566	40	RB_1_high	BPSK	25.92
mid	3383.49	625566	40	RB_1_high	QPSK	26.02
mid	3383.49	625566	40	RB_50%_mid	BPSK	25.99
mid	3383.49	625566	40	RB_50%_mid	QPSK	26.00
mid	3383.49	625566	40	RB_100%	BPSK	25.52
mid	3383.49	625566	40	RB_100%	QPSK	25.04
high	3447	629800	40	RB_1_low	BPSK	25.95
high	3447	629800	40	RB_1_low	QPSK	22.86
high	3447	629800	40	RB_1_low+1	BPSK	26.41
high	3447	629800	40	RB_1_low+1	QPSK	26.37
high	3447	629800	40	RB_1_high-1	BPSK	26.65
high	3447	629800	40	RB_1_high-1	QPSK	26.57
high	3447	629800	40	RB_1_high	BPSK	26.59
high	3447	629800	40	RB_1_high	QPSK	26.61
high	3447	629800	40	RB_50%_mid	BPSK	26.41
high	3447	629800	40	RB_50%_mid	QPSK	26.44
high	3447	629800	40	RB_100%	BPSK	25.97
high	3447	629800	40	RB_100%	QPSK	25.50
mid	3550.5	636700	40	RB_1_low	BPSK	26.38
mid	3550.5	636700	40	RB_1_low	QPSK	23.58
mid	3550.5	636700	40	RB_1_low+1	BPSK	27.03
mid	3550.5	636700	40	RB_1_low+1	QPSK	27.09
mid	3550.5	636700	40	RB_1_high-1	BPSK	26.81
mid	3550.5	636700	40	RB_1_high-1	QPSK	26.81
mid	3550.5	636700	40	RB_1_high	BPSK	26.82
mid	3550.5	636700	40	RB_1_high	QPSK	26.81
mid	3550.5	636700	40	RB_50%_mid	BPSK	26.87
mid	3550.5	636700	40	RB_50%_mid	QPSK	26.85

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3550.5	636700	40	RB_100%	BPSK	26.37
mid	3550.5	636700	40	RB_100%	QPSK	25.94
low	3654	643600	40	RB_1_low	BPSK	26.29
low	3654	643600	40	RB_1_low	QPSK	23.42
low	3654	643600	40	RB_1_low+1	BPSK	26.96
low	3654	643600	40	RB_1_low+1	QPSK	26.88
low	3654	643600	40	RB_1_high-1	BPSK	26.84
low	3654	643600	40	RB_1_high-1	QPSK	26.79
low	3654	643600	40	RB_1_high	BPSK	26.79
low	3654	643600	40	RB_1_high	QPSK	26.81
low	3654	643600	40	RB_50%_mid	BPSK	26.62
low	3654	643600	40	RB_50%_mid	QPSK	26.72
low	3654	643600	40	RB_100%	BPSK	26.33
low	3654	643600	40	RB_100%	QPSK	25.71
mid	3717	647800	40	RB_1_low	BPSK	26.05
mid	3717	647800	40	RB_1_low	QPSK	23.28
mid	3383.49	625566	40	RB_1_low	16QAM	22.52
mid	3383.49	625566	40	RB_1_low	64QAM	22.44
mid	3383.49	625566	40	RB_1_low	256QAM	20.96
mid	3717	647800	40	RB_1_low+1	BPSK	26.74
mid	3717	647800	40	RB_1_low+1	QPSK	26.61
mid	3383.49	625566	40	RB_1_low+1	16QAM	24.90
mid	3383.49	625566	40	RB_1_low+1	64QAM	23.61
mid	3383.49	625566	40	RB_1_low+1	256QAM	21.40
mid	3717	647800	40	RB_1_high-1	BPSK	26.71
mid	3717	647800	40	RB_1_high-1	QPSK	26.69
mid	3383.49	625566	40	RB_1_high-1	16QAM	24.73
mid	3383.49	625566	40	RB_1_high-1	64QAM	23.12
mid	3383.49	625566	40	RB_1_high-1	256QAM	21.63
mid	3717	647800	40	RB_1_high	BPSK	26.67
mid	3717	647800	40	RB_1_high	QPSK	26.67
mid	3383.49	625566	40	RB_1_high	16QAM	25.05
mid	3383.49	625566	40	RB_1_high	64QAM	23.60
mid	3383.49	625566	40	RB_1_high	256QAM	21.68
mid	3717	647800	40	RB_50%_mid	BPSK	26.47
mid	3717	647800	40	RB_50%_mid	QPSK	26.52
mid	3383.49	625566	40	RB_50%_mid	16QAM	24.77
mid	3383.49	625566	40	RB_50%_mid	64QAM	23.60
mid	3383.49	625566	40	RB_50%_mid	256QAM	21.43
mid	3717	647800	40	RB_100%	BPSK	26.14
mid	3717	647800	40	RB_100%	QPSK	25.58
mid	3383.49	625566	40	RB_100%	16QAM	24.04
mid	3383.49	625566	40	RB_100%	64QAM	23.58
mid	3383.49	625566	40	RB_100%	256QAM	21.75
high	3780	652000	40	RB_1_low	BPSK	26.06
high	3780	652000	40	RB_1_low	QPSK	22.89

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3780	652000	40	RB_1_low+1	BPSK	26.70
high	3780	652000	40	RB_1_low+1	QPSK	26.65
high	3780	652000	40	RB_1_high-1	BPSK	26.71
high	3780	652000	40	RB_1_high-1	QPSK	26.63
high	3780	652000	40	RB_1_high	BPSK	26.60
high	3780	652000	40	RB_1_high	QPSK	26.63
high	3780	652000	40	RB_50%_mid	BPSK	26.39
high	3780	652000	40	RB_50%_mid	QPSK	26.47
high	3780	652000	40	RB_100%	BPSK	26.07
high	3780	652000	40	RB_100%	QPSK	25.55
high	3447	629800	40	RB_1_low	16QAM	22.76
high	3447	629800	40	RB_1_low	64QAM	23.14
high	3447	629800	40	RB_1_low	256QAM	21.78
high	3447	629800	40	RB_1_low+1	16QAM	25.36
high	3447	629800	40	RB_1_low+1	64QAM	24.06
high	3447	629800	40	RB_1_low+1	256QAM	21.89
high	3447	629800	40	RB_1_high-1	16QAM	25.11
high	3447	629800	40	RB_1_high-1	64QAM	24.02
high	3447	629800	40	RB_1_high-1	256QAM	21.87
high	3447	629800	40	RB_1_high	16QAM	25.48
high	3447	629800	40	RB_1_high	64QAM	23.85
high	3447	629800	40	RB_1_high	256QAM	22.17
high	3447	629800	40	RB_50%_mid	16QAM	25.36
high	3447	629800	40	RB_50%_mid	64QAM	23.96
high	3447	629800	40	RB_50%_mid	256QAM	21.88
high	3447	629800	40	RB_100%	16QAM	24.38
high	3447	629800	40	RB_100%	64QAM	23.99
high	3447	629800	40	RB_100%	256QAM	22.04
mid	3550.5	636700	40	RB_1_low	16QAM	23.42
mid	3550.5	636700	40	RB_1_low	64QAM	23.54
mid	3550.5	636700	40	RB_1_low	256QAM	22.73
mid	3550.5	636700	40	RB_1_low+1	16QAM	26.08
mid	3550.5	636700	40	RB_1_low+1	64QAM	24.54
mid	3550.5	636700	40	RB_1_low+1	256QAM	22.65
mid	3550.5	636700	40	RB_1_high-1	16QAM	25.71
mid	3550.5	636700	40	RB_1_high-1	64QAM	24.07
mid	3550.5	636700	40	RB_1_high-1	256QAM	22.38
mid	3550.5	636700	40	RB_1_high	16QAM	25.92
mid	3550.5	636700	40	RB_1_high	64QAM	24.32
mid	3550.5	636700	40	RB_1_high	256QAM	22.39
mid	3550.5	636700	40	RB_50%_mid	16QAM	25.79
mid	3550.5	636700	40	RB_50%_mid	64QAM	24.12
mid	3550.5	636700	40	RB_50%_mid	256QAM	22.40
mid	3550.5	636700	40	RB_100%	16QAM	24.93
mid	3550.5	636700	40	RB_100%	64QAM	24.41
mid	3550.5	636700	40	RB_100%	256QAM	22.42

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3654	643600	40	RB_1_low	16QAM	23.76
low	3654	643600	40	RB_1_low	64QAM	23.56
low	3654	643600	40	RB_1_low	256QAM	22.34
low	3654	643600	40	RB_1_low+1	16QAM	26.00
low	3654	643600	40	RB_1_low+1	64QAM	24.44
low	3654	643600	40	RB_1_low+1	256QAM	22.49
low	3654	643600	40	RB_1_high-1	16QAM	25.91
low	3654	643600	40	RB_1_high-1	64QAM	24.20
low	3654	643600	40	RB_1_high-1	256QAM	22.53
low	3654	643600	40	RB_1_high	16QAM	25.87
low	3654	643600	40	RB_1_high	64QAM	24.32
low	3654	643600	40	RB_1_high	256QAM	22.27
low	3654	643600	40	RB_50%_mid	16QAM	25.84
low	3654	643600	40	RB_50%_mid	64QAM	24.27
low	3654	643600	40	RB_50%_mid	256QAM	22.22
low	3654	643600	40	RB_100%	16QAM	24.66
low	3654	643600	40	RB_100%	64QAM	24.23
low	3654	643600	40	RB_100%	256QAM	22.33
mid	3717	647800	40	RB_1_low	16QAM	23.40
mid	3717	647800	40	RB_1_low	64QAM	23.08
mid	3717	647800	40	RB_1_low	256QAM	22.32
mid	3717	647800	40	RB_1_low+1	16QAM	25.62
mid	3717	647800	40	RB_1_low+1	64QAM	24.38
mid	3717	647800	40	RB_1_low+1	256QAM	22.23
mid	3717	647800	40	RB_1_high-1	16QAM	25.39
mid	3717	647800	40	RB_1_high-1	64QAM	24.03
mid	3717	647800	40	RB_1_high-1	256QAM	22.34
mid	3717	647800	40	RB_1_high	16QAM	25.80
mid	3717	647800	40	RB_1_high	64QAM	24.17
mid	3717	647800	40	RB_1_high	256QAM	22.13
mid	3717	647800	40	RB_50%_mid	16QAM	25.45
mid	3717	647800	40	RB_50%_mid	64QAM	23.73
mid	3717	647800	40	RB_50%_mid	256QAM	22.13
mid	3717	647800	40	RB_100%	16QAM	24.58
mid	3717	647800	40	RB_100%	64QAM	24.06
mid	3717	647800	40	RB_100%	256QAM	22.14
high	3780	652000	40	RB_1_low	16QAM	23.30
high	3780	652000	40	RB_1_low	64QAM	23.32
high	3780	652000	40	RB_1_low	256QAM	22.30
high	3780	652000	40	RB_1_low+1	16QAM	25.70
high	3780	652000	40	RB_1_low+1	64QAM	24.29
high	3780	652000	40	RB_1_low+1	256QAM	22.29
high	3780	652000	40	RB_1_high-1	16QAM	25.67
high	3780	652000	40	RB_1_high-1	64QAM	24.38
high	3780	652000	40	RB_1_high-1	256QAM	22.26

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3780	652000	40	RB_1_high	16QAM	25.72
high	3780	652000	40	RB_1_high	64QAM	24.14
high	3780	652000	40	RB_1_high	256QAM	22.32
high	3780	652000	40	RB_50%_mid	16QAM	25.37
high	3780	652000	40	RB_50%_mid	64QAM	23.97
high	3780	652000	40	RB_50%_mid	256QAM	22.05
high	3780	652000	40	RB_100%	16QAM	24.46
high	3780	652000	40	RB_100%	64QAM	24.09
high	3780	652000	40	RB_100%	256QAM	22.04
low	3325.02	621668	50	RB_1_low	16QAM	22.27
low	3325.02	621668	50	RB_1_low	64QAM	22.14
low	3325.02	621668	50	RB_1_low	256QAM	21.50
low	3325.02	621668	50	RB_1_low+1	16QAM	24.73
low	3325.02	621668	50	RB_1_low+1	64QAM	23.15
low	3325.02	621668	50	RB_1_low+1	256QAM	21.17
low	3325.02	621668	50	RB_1_high-1	16QAM	24.79
low	3325.02	621668	50	RB_1_high-1	64QAM	23.04
low	3325.02	621668	50	RB_1_high-1	256QAM	21.08
low	3325.02	621668	50	RB_1_high	16QAM	24.57
low	3325.02	621668	50	RB_1_high	64QAM	23.01
low	3325.02	621668	50	RB_1_high	256QAM	20.85
low	3325.02	621668	50	RB_50%_mid	16QAM	24.55
low	3325.02	621668	50	RB_50%_mid	64QAM	23.07
low	3325.02	621668	50	RB_50%_mid	256QAM	20.86
low	3325.02	621668	50	RB_100%	16QAM	23.77
low	3325.02	621668	50	RB_100%	64QAM	23.16
low	3325.02	621668	50	RB_100%	256QAM	21.17
mid	3383.49	625566	50	RB_1_low	16QAM	22.29
mid	3383.49	625566	50	RB_1_low	64QAM	22.11
mid	3383.49	625566	50	RB_1_low	256QAM	21.03
mid	3383.49	625566	50	RB_1_low+1	16QAM	24.46
mid	3383.49	625566	50	RB_1_low+1	64QAM	23.30
mid	3383.49	625566	50	RB_1_low+1	256QAM	21.23
mid	3383.49	625566	50	RB_1_high-1	16QAM	24.81
mid	3383.49	625566	50	RB_1_high-1	64QAM	22.97
mid	3383.49	625566	50	RB_1_high-1	256QAM	21.42
mid	3383.49	625566	50	RB_1_high	16QAM	24.80
mid	3383.49	625566	50	RB_1_high	64QAM	23.13
mid	3383.49	625566	50	RB_1_high	256QAM	21.39
mid	3383.49	625566	50	RB_50%_mid	16QAM	24.93
mid	3383.49	625566	50	RB_50%_mid	64QAM	23.65
mid	3383.49	625566	50	RB_50%_mid	256QAM	21.41
mid	3383.49	625566	50	RB_100%	16QAM	23.77
mid	3383.49	625566	50	RB_100%	64QAM	23.51
mid	3383.49	625566	50	RB_100%	256QAM	21.35

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3325.02	621668	50	RB_1_low	BPSK	25.19
low	3325.02	621668	50	RB_1_low	QPSK	22.21
low	3325.02	621668	50	RB_1_low+1	BPSK	25.72
low	3325.02	621668	50	RB_1_low+1	QPSK	25.68
low	3325.02	621668	50	RB_1_high-1	BPSK	25.71
low	3325.02	621668	50	RB_1_high-1	QPSK	25.59
low	3325.02	621668	50	RB_1_high	BPSK	25.63
low	3325.02	621668	50	RB_1_high	QPSK	25.60
low	3325.02	621668	50	RB_50%_mid	BPSK	22.56
low	3325.02	621668	50	RB_50%_mid	QPSK	25.54
low	3325.02	621668	50	RB_100%	BPSK	25.16
low	3325.02	621668	50	RB_100%	QPSK	24.62
mid	3383.49	625566	50	RB_1_low	BPSK	25.53
mid	3383.49	625566	50	RB_1_low	QPSK	22.29
mid	3383.49	625566	50	RB_1_low+1	BPSK	25.70
mid	3383.49	625566	50	RB_1_low+1	QPSK	25.68
mid	3383.49	625566	50	RB_1_high-1	BPSK	25.78
mid	3383.49	625566	50	RB_1_high-1	QPSK	25.77
mid	3383.49	625566	50	RB_1_high	BPSK	25.79
mid	3383.49	625566	50	RB_1_high	QPSK	25.74
mid	3383.49	625566	50	RB_50%_mid	BPSK	26.03
mid	3383.49	625566	50	RB_50%_mid	QPSK	26.03
mid	3383.49	625566	50	RB_100%	BPSK	25.41
mid	3383.49	625566	50	RB_100%	QPSK	24.93
high	3441.99	629466	50	RB_1_low	BPSK	25.66
high	3441.99	629466	50	RB_1_low	QPSK	22.60
high	3441.99	629466	50	RB_1_low+1	BPSK	26.22
high	3441.99	629466	50	RB_1_low+1	QPSK	26.24
high	3441.99	629466	50	RB_1_high-1	BPSK	26.34
high	3441.99	629466	50	RB_1_high-1	QPSK	26.34
high	3441.99	629466	50	RB_1_high	BPSK	26.37
high	3441.99	629466	50	RB_1_high	QPSK	26.29
high	3441.99	629466	50	RB_50%_mid	BPSK	26.23
high	3441.99	629466	50	RB_50%_mid	QPSK	26.19
high	3441.99	629466	50	RB_100%	BPSK	25.85
high	3441.99	629466	50	RB_100%	QPSK	25.24
mid	3550.5	636700	50	RB_1_low	BPSK	26.41
mid	3550.5	636700	50	RB_1_low	QPSK	23.59
mid	3550.5	636700	50	RB_1_low+1	BPSK	27.19
mid	3550.5	636700	50	RB_1_low+1	QPSK	27.16
mid	3550.5	636700	50	RB_1_high-1	BPSK	26.81
mid	3550.5	636700	50	RB_1_high-1	QPSK	26.83
mid	3550.5	636700	50	RB_1_high	BPSK	26.95
mid	3550.5	636700	50	RB_1_high	QPSK	26.91
mid	3550.5	636700	50	RB_50%_mid	BPSK	26.89
mid	3550.5	636700	50	RB_50%_mid	QPSK	26.92

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3550.5	636700	50	RB_100%	BPSK	26.46
mid	3550.5	636700	50	RB_100%	QPSK	25.86
low	3659.01	643934	50	RB_1_low	BPSK	26.25
low	3659.01	643934	50	RB_1_low	QPSK	23.46
high	3441.99	629466	50	RB_1_low	16QAM	22.50
high	3441.99	629466	50	RB_1_low	64QAM	22.77
high	3441.99	629466	50	RB_1_low	256QAM	21.91
low	3659.01	643934	50	RB_1_low+1	BPSK	27.01
low	3659.01	643934	50	RB_1_low+1	QPSK	26.83
high	3441.99	629466	50	RB_1_low+1	16QAM	25.05
high	3441.99	629466	50	RB_1_low+1	64QAM	23.71
high	3441.99	629466	50	RB_1_low+1	256QAM	22.06
low	3659.01	643934	50	RB_1_high-1	BPSK	26.52
low	3659.01	643934	50	RB_1_high-1	QPSK	26.43
high	3441.99	629466	50	RB_1_high-1	16QAM	25.08
high	3441.99	629466	50	RB_1_high-1	64QAM	23.74
high	3441.99	629466	50	RB_1_high-1	256QAM	22.07
low	3659.01	643934	50	RB_1_high	BPSK	26.46
low	3659.01	643934	50	RB_1_high	QPSK	26.43
high	3441.99	629466	50	RB_1_high	16QAM	25.52
high	3441.99	629466	50	RB_1_high	64QAM	24.01
high	3441.99	629466	50	RB_1_high	256QAM	22.12
low	3659.01	643934	50	RB_50%_mid	BPSK	26.82
low	3659.01	643934	50	RB_50%_mid	QPSK	26.72
high	3441.99	629466	50	RB_50%_mid	16QAM	25.14
high	3441.99	629466	50	RB_50%_mid	64QAM	23.80
high	3441.99	629466	50	RB_50%_mid	256QAM	21.69
low	3659.01	643934	50	RB_100%	BPSK	26.29
low	3659.01	643934	50	RB_100%	QPSK	25.78
high	3441.99	629466	50	RB_100%	16QAM	24.18
high	3441.99	629466	50	RB_100%	64QAM	23.84
high	3441.99	629466	50	RB_100%	256QAM	21.79
mid	3717	647800	50	RB_1_low	BPSK	25.98
mid	3717	647800	50	RB_1_low	QPSK	23.09
mid	3717	647800	50	RB_1_low+1	BPSK	26.64
mid	3717	647800	50	RB_1_low+1	QPSK	26.64
mid	3717	647800	50	RB_1_high-1	BPSK	26.54
mid	3717	647800	50	RB_1_high-1	QPSK	26.49
mid	3717	647800	50	RB_1_high	BPSK	26.46
mid	3717	647800	50	RB_1_high	QPSK	26.59
mid	3717	647800	50	RB_50%_mid	BPSK	26.56
mid	3717	647800	50	RB_50%_mid	QPSK	26.47
mid	3717	647800	50	RB_100%	BPSK	26.03
mid	3717	647800	50	RB_100%	QPSK	25.55
high	3774.99	651666	50	RB_1_low	BPSK	26.03
high	3774.99	651666	50	RB_1_low	QPSK	23.32

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3774.99	651666	50	RB_1_low+1	BPSK	26.91
high	3774.99	651666	50	RB_1_low+1	QPSK	26.83
high	3774.99	651666	50	RB_1_high-1	BPSK	26.59
high	3774.99	651666	50	RB_1_high-1	QPSK	26.61
high	3774.99	651666	50	RB_1_high	BPSK	26.53
high	3774.99	651666	50	RB_1_high	QPSK	26.49
high	3774.99	651666	50	RB_50%_mid	BPSK	26.39
high	3774.99	651666	50	RB_50%_mid	QPSK	26.37
high	3774.99	651666	50	RB_100%	BPSK	26.04
high	3774.99	651666	50	RB_100%	QPSK	25.55
mid	3550.5	636700	50	RB_1_low	16QAM	23.50
mid	3550.5	636700	50	RB_1_low	64QAM	23.73
mid	3550.5	636700	50	RB_1_low	256QAM	22.80
mid	3550.5	636700	50	RB_1_low+1	16QAM	26.18
mid	3550.5	636700	50	RB_1_low+1	64QAM	24.43
mid	3550.5	636700	50	RB_1_low+1	256QAM	22.57
mid	3550.5	636700	50	RB_1_high-1	16QAM	25.76
mid	3550.5	636700	50	RB_1_high-1	64QAM	24.15
mid	3550.5	636700	50	RB_1_high-1	256QAM	22.45
mid	3550.5	636700	50	RB_1_high	16QAM	25.95
mid	3550.5	636700	50	RB_1_high	64QAM	24.70
mid	3550.5	636700	50	RB_1_high	256QAM	22.55
mid	3550.5	636700	50	RB_50%_mid	16QAM	25.83
mid	3550.5	636700	50	RB_50%_mid	64QAM	24.42
mid	3550.5	636700	50	RB_50%_mid	256QAM	22.35
mid	3550.5	636700	50	RB_100%	16QAM	24.82
mid	3550.5	636700	50	RB_100%	64QAM	24.49
mid	3550.5	636700	50	RB_100%	256QAM	22.40
low	3659.01	643934	50	RB_1_low	16QAM	23.49
low	3659.01	643934	50	RB_1_low	64QAM	23.19
low	3659.01	643934	50	RB_1_low	256QAM	22.12
low	3659.01	643934	50	RB_1_low+1	16QAM	26.00
low	3659.01	643934	50	RB_1_low+1	64QAM	24.15
low	3659.01	643934	50	RB_1_low+1	256QAM	22.65
low	3659.01	643934	50	RB_1_high-1	16QAM	25.52
low	3659.01	643934	50	RB_1_high-1	64QAM	23.95
low	3659.01	643934	50	RB_1_high-1	256QAM	21.89
low	3659.01	643934	50	RB_1_high	16QAM	25.56
low	3659.01	643934	50	RB_1_high	64QAM	24.07
low	3659.01	643934	50	RB_1_high	256QAM	22.02
low	3659.01	643934	50	RB_50%_mid	16QAM	25.77
low	3659.01	643934	50	RB_50%_mid	64QAM	24.37
low	3659.01	643934	50	RB_50%_mid	256QAM	22.22
low	3659.01	643934	50	RB_100%	16QAM	24.81
low	3659.01	643934	50	RB_100%	64QAM	24.31
low	3659.01	643934	50	RB_100%	256QAM	22.23

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3717	647800	50	RB_1_low	16QAM	22.88
mid	3717	647800	50	RB_1_low	64QAM	22.99
mid	3717	647800	50	RB_1_low	256QAM	22.08
mid	3717	647800	50	RB_1_low+1	16QAM	25.58
mid	3717	647800	50	RB_1_low+1	64QAM	24.37
mid	3717	647800	50	RB_1_low+1	256QAM	22.22
mid	3717	647800	50	RB_1_high-1	16QAM	25.71
mid	3717	647800	50	RB_1_high-1	64QAM	24.09
mid	3717	647800	50	RB_1_high-1	256QAM	22.05
mid	3717	647800	50	RB_1_high	16QAM	25.46
mid	3717	647800	50	RB_1_high	64QAM	24.12
mid	3717	647800	50	RB_1_high	256QAM	21.97
mid	3717	647800	50	RB_50%_mid	16QAM	25.62
mid	3717	647800	50	RB_50%_mid	64QAM	23.79
mid	3717	647800	50	RB_50%_mid	256QAM	22.04
mid	3717	647800	50	RB_100%	16QAM	24.50
mid	3717	647800	50	RB_100%	64QAM	24.01
mid	3717	647800	50	RB_100%	256QAM	22.07
high	3774.99	651666	50	RB_1_low	16QAM	23.47
high	3774.99	651666	50	RB_1_low	64QAM	22.98
high	3774.99	651666	50	RB_1_low	256QAM	22.38
high	3774.99	651666	50	RB_1_low+1	16QAM	25.80
high	3774.99	651666	50	RB_1_low+1	64QAM	24.51
high	3774.99	651666	50	RB_1_low+1	256QAM	22.53
high	3774.99	651666	50	RB_1_high-1	16QAM	25.89
high	3774.99	651666	50	RB_1_high-1	64QAM	23.91
high	3774.99	651666	50	RB_1_high-1	256QAM	21.87
high	3774.99	651666	50	RB_1_high	16QAM	25.55
high	3774.99	651666	50	RB_1_high	64QAM	24.17
high	3774.99	651666	50	RB_1_high	256QAM	21.97
high	3774.99	651666	50	RB_50%_mid	16QAM	25.40
high	3774.99	651666	50	RB_50%_mid	64QAM	23.92
high	3774.99	651666	50	RB_50%_mid	256QAM	21.91
high	3774.99	651666	50	RB_100%	16QAM	24.57
high	3774.99	651666	50	RB_100%	64QAM	24.04
high	3774.99	651666	50	RB_100%	256QAM	22.11
low	3330	622000	60	RB_1_low	16QAM	22.52
low	3330	622000	60	RB_1_low	64QAM	22.33
low	3330	622000	60	RB_1_low	256QAM	21.18
low	3330	622000	60	RB_1_low+1	16QAM	24.76
low	3330	622000	60	RB_1_low+1	64QAM	23.02
low	3330	622000	60	RB_1_low+1	256QAM	20.90
low	3330	622000	60	RB_1_high-1	16QAM	24.23
low	3330	622000	60	RB_1_high-1	64QAM	23.12
low	3330	622000	60	RB_1_high-1	256QAM	20.99

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3330	622000	60	RB_1_high	16QAM	21.77
low	3330	622000	60	RB_1_high	64QAM	22.09
low	3330	622000	60	RB_1_high	256QAM	20.87
low	3330	622000	60	RB_50%_mid	16QAM	24.57
low	3330	622000	60	RB_50%_mid	64QAM	23.04
low	3330	622000	60	RB_50%_mid	256QAM	21.03
low	3330	622000	60	RB_100%	16QAM	23.53
low	3330	622000	60	RB_100%	64QAM	23.04
low	3330	622000	60	RB_100%	256QAM	21.14
mid	3383.49	625566	60	RB_1_low	16QAM	22.23
mid	3383.49	625566	60	RB_1_low	64QAM	21.91
mid	3383.49	625566	60	RB_1_low	256QAM	21.00
mid	3383.49	625566	60	RB_1_low+1	16QAM	24.62
mid	3383.49	625566	60	RB_1_low+1	64QAM	23.35
mid	3383.49	625566	60	RB_1_low+1	256QAM	21.14
mid	3383.49	625566	60	RB_1_high-1	16QAM	24.95
mid	3383.49	625566	60	RB_1_high-1	64QAM	23.42
mid	3383.49	625566	60	RB_1_high-1	256QAM	21.50
mid	3383.49	625566	60	RB_1_high	16QAM	22.41
mid	3383.49	625566	60	RB_1_high	64QAM	22.20
mid	3383.49	625566	60	RB_1_high	256QAM	21.21
mid	3383.49	625566	60	RB_50%_mid	16QAM	25.23
mid	3383.49	625566	60	RB_50%_mid	64QAM	23.55
mid	3383.49	625566	60	RB_50%_mid	256QAM	21.58
mid	3383.49	625566	60	RB_100%	16QAM	24.05
mid	3383.49	625566	60	RB_100%	64QAM	23.21
mid	3383.49	625566	60	RB_100%	256QAM	21.39
high	3436.98	629132	60	RB_1_low	16QAM	22.62
high	3436.98	629132	60	RB_1_low	64QAM	22.08
high	3436.98	629132	60	RB_1_low	256QAM	21.62
high	3436.98	629132	60	RB_1_low+1	16QAM	25.00
high	3436.98	629132	60	RB_1_low+1	64QAM	23.48
high	3436.98	629132	60	RB_1_low+1	256QAM	21.33
high	3436.98	629132	60	RB_1_high-1	16QAM	25.74
high	3436.98	629132	60	RB_1_high-1	64QAM	23.95
high	3436.98	629132	60	RB_1_high-1	256QAM	21.84
high	3436.98	629132	60	RB_1_high	16QAM	23.12
high	3436.98	629132	60	RB_1_high	64QAM	23.11
high	3436.98	629132	60	RB_1_high	256QAM	22.09
high	3436.98	629132	60	RB_50%_mid	16QAM	25.36
high	3436.98	629132	60	RB_50%_mid	64QAM	23.82
high	3436.98	629132	60	RB_50%_mid	256QAM	21.90
high	3436.98	629132	60	RB_100%	16QAM	24.35
high	3436.98	629132	60	RB_100%	64QAM	23.77
high	3436.98	629132	60	RB_100%	256QAM	21.80

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3330	622000	60	RB_1_low	BPSK	22.27
low	3330	622000	60	RB_1_low	QPSK	22.24
low	3330	622000	60	RB_1_low+1	BPSK	25.74
low	3330	622000	60	RB_1_low+1	QPSK	25.72
low	3330	622000	60	RB_1_high-1	BPSK	25.61
low	3330	622000	60	RB_1_high-1	QPSK	25.61
low	3330	622000	60	RB_1_high	BPSK	22.00
low	3330	622000	60	RB_1_high	QPSK	21.98
low	3330	622000	60	RB_50%_mid	BPSK	25.57
low	3330	622000	60	RB_50%_mid	QPSK	25.62
low	3330	622000	60	RB_100%	BPSK	25.21
low	3330	622000	60	RB_100%	QPSK	24.55
mid	3383.49	625566	60	RB_1_low	BPSK	25.46
mid	3383.49	625566	60	RB_1_low	QPSK	22.09
mid	3383.49	625566	60	RB_1_low+1	BPSK	25.52
mid	3383.49	625566	60	RB_1_low+1	QPSK	25.60
mid	3383.49	625566	60	RB_1_high-1	BPSK	25.97
mid	3383.49	625566	60	RB_1_high-1	QPSK	26.14
mid	3383.49	625566	60	RB_1_high	BPSK	22.47
mid	3383.49	625566	60	RB_1_high	QPSK	22.41
mid	3383.49	625566	60	RB_50%_mid	BPSK	26.02
mid	3383.49	625566	60	RB_50%_mid	QPSK	26.04
mid	3383.49	625566	60	RB_100%	BPSK	25.39
mid	3383.49	625566	60	RB_100%	QPSK	24.98
high	3436.98	629132	60	RB_1_low	BPSK	25.80
high	3436.98	629132	60	RB_1_low	QPSK	22.40
high	3436.98	629132	60	RB_1_low+1	BPSK	26.00
high	3436.98	629132	60	RB_1_low+1	QPSK	25.98
high	3436.98	629132	60	RB_1_high-1	BPSK	26.51
high	3436.98	629132	60	RB_1_high-1	QPSK	26.41
high	3436.98	629132	60	RB_1_high	BPSK	22.94
high	3436.98	629132	60	RB_1_high	QPSK	22.97
high	3436.98	629132	60	RB_50%_mid	BPSK	26.44
high	3436.98	629132	60	RB_50%_mid	QPSK	26.39
high	3436.98	629132	60	RB_100%	BPSK	25.84
high	3436.98	629132	60	RB_100%	QPSK	25.36
mid	3550.5	636700	60	RB_1_low	BPSK	26.37
mid	3550.5	636700	60	RB_1_low	QPSK	23.45
mid	3550.5	636700	60	RB_1_low	16QAM	23.40
mid	3550.5	636700	60	RB_1_low	64QAM	23.44
mid	3550.5	636700	60	RB_1_low	256QAM	22.42
mid	3550.5	636700	60	RB_1_low+1	BPSK	26.99
mid	3550.5	636700	60	RB_1_low+1	QPSK	26.93
mid	3550.5	636700	60	RB_1_low+1	16QAM	25.90
mid	3550.5	636700	60	RB_1_low+1	64QAM	24.23
mid	3550.5	636700	60	RB_1_low+1	256QAM	22.57

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3550.5	636700	60	RB_1_high-1	BPSK	26.84
mid	3550.5	636700	60	RB_1_high-1	QPSK	26.73
mid	3550.5	636700	60	RB_1_high-1	16QAM	25.95
mid	3550.5	636700	60	RB_1_high-1	64QAM	24.46
mid	3550.5	636700	60	RB_1_high-1	256QAM	22.39
mid	3550.5	636700	60	RB_1_high	BPSK	23.33
mid	3550.5	636700	60	RB_1_high	QPSK	23.30
mid	3550.5	636700	60	RB_1_high	16QAM	23.63
mid	3550.5	636700	60	RB_1_high	64QAM	23.44
mid	3550.5	636700	60	RB_1_high	256QAM	22.31
mid	3550.5	636700	60	RB_50%_mid	BPSK	26.89
mid	3550.5	636700	60	RB_50%_mid	QPSK	26.99
mid	3550.5	636700	60	RB_50%_mid	16QAM	25.91
mid	3550.5	636700	60	RB_50%_mid	64QAM	24.37
mid	3550.5	636700	60	RB_50%_mid	256QAM	22.39
mid	3550.5	636700	60	RB_100%	BPSK	26.34
mid	3550.5	636700	60	RB_100%	QPSK	25.92
mid	3550.5	636700	60	RB_100%	16QAM	24.88
mid	3550.5	636700	60	RB_100%	64QAM	24.12
mid	3550.5	636700	60	RB_100%	256QAM	22.49
low	3664.02	644268	60	RB_1_low	BPSK	26.24
low	3664.02	644268	60	RB_1_low	QPSK	23.40
low	3664.02	644268	60	RB_1_low+1	BPSK	26.88
low	3664.02	644268	60	RB_1_low+1	QPSK	26.84
low	3664.02	644268	60	RB_1_high-1	BPSK	26.62
low	3664.02	644268	60	RB_1_high-1	QPSK	26.54
low	3664.02	644268	60	RB_1_high	BPSK	23.10
low	3664.02	644268	60	RB_1_high	QPSK	23.08
low	3664.02	644268	60	RB_50%_mid	BPSK	26.74
low	3664.02	644268	60	RB_50%_mid	QPSK	26.79
low	3664.02	644268	60	RB_100%	BPSK	26.29
low	3664.02	644268	60	RB_100%	QPSK	25.72
mid	3717	647800	60	RB_1_low	BPSK	26.12
mid	3717	647800	60	RB_1_low	QPSK	22.89
mid	3717	647800	60	RB_1_low+1	BPSK	26.51
mid	3717	647800	60	RB_1_low+1	QPSK	26.47
mid	3717	647800	60	RB_1_high-1	BPSK	26.59
mid	3717	647800	60	RB_1_high-1	QPSK	26.51
mid	3717	647800	60	RB_1_high	BPSK	23.19
mid	3717	647800	60	RB_1_high	QPSK	23.11
mid	3717	647800	60	RB_50%_mid	BPSK	26.61
mid	3717	647800	60	RB_50%_mid	QPSK	26.59
mid	3717	647800	60	RB_100%	BPSK	26.12
mid	3717	647800	60	RB_100%	QPSK	25.57
high	3769.98	651332	60	RB_1_low	BPSK	26.03
high	3769.98	651332	60	RB_1_low	QPSK	23.40

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3769.98	651332	60	RB_1_low+1	BPSK	26.80
high	3769.98	651332	60	RB_1_low+1	QPSK	26.79
high	3769.98	651332	60	RB_1_high-1	BPSK	26.51
high	3769.98	651332	60	RB_1_high-1	QPSK	26.41
high	3769.98	651332	60	RB_1_high	BPSK	23.00
high	3769.98	651332	60	RB_1_high	QPSK	23.00
high	3769.98	651332	60	RB_50%_mid	BPSK	26.42
high	3769.98	651332	60	RB_50%_mid	QPSK	26.47
high	3769.98	651332	60	RB_100%	BPSK	26.09
high	3769.98	651332	60	RB_100%	QPSK	25.58
low	3664.02	644268	60	RB_1_low	16QAM	23.71
low	3664.02	644268	60	RB_1_low	64QAM	23.89
low	3664.02	644268	60	RB_1_low	256QAM	22.29
low	3664.02	644268	60	RB_1_low+1	16QAM	25.74
low	3664.02	644268	60	RB_1_low+1	64QAM	24.34
low	3664.02	644268	60	RB_1_low+1	256QAM	22.44
low	3664.02	644268	60	RB_1_high-1	16QAM	25.29
low	3664.02	644268	60	RB_1_high-1	64QAM	24.24
low	3664.02	644268	60	RB_1_high-1	256QAM	22.08
low	3664.02	644268	60	RB_1_high	16QAM	23.06
low	3664.02	644268	60	RB_1_high	64QAM	23.08
low	3664.02	644268	60	RB_1_high	256QAM	21.97
low	3664.02	644268	60	RB_50%_mid	16QAM	25.82
low	3664.02	644268	60	RB_50%_mid	64QAM	24.26
low	3664.02	644268	60	RB_50%_mid	256QAM	22.16
low	3664.02	644268	60	RB_100%	16QAM	24.76
low	3664.02	644268	60	RB_100%	64QAM	24.29
low	3664.02	644268	60	RB_100%	256QAM	22.22
mid	3717	647800	60	RB_1_low	16QAM	22.90
mid	3717	647800	60	RB_1_low	64QAM	22.69
mid	3717	647800	60	RB_1_low	256QAM	22.31
mid	3717	647800	60	RB_1_low+1	16QAM	25.52
mid	3717	647800	60	RB_1_low+1	64QAM	23.96
mid	3717	647800	60	RB_1_low+1	256QAM	22.15
mid	3717	647800	60	RB_1_high-1	16QAM	25.69
mid	3717	647800	60	RB_1_high-1	64QAM	23.94
mid	3717	647800	60	RB_1_high-1	256QAM	22.13
mid	3717	647800	60	RB_1_high	16QAM	22.87
mid	3717	647800	60	RB_1_high	64QAM	23.14
mid	3717	647800	60	RB_1_high	256QAM	22.08
mid	3717	647800	60	RB_50%_mid	16QAM	25.60
mid	3717	647800	60	RB_50%_mid	64QAM	24.22
mid	3717	647800	60	RB_50%_mid	256QAM	22.12
mid	3717	647800	60	RB_100%	16QAM	24.55
mid	3717	647800	60	RB_100%	64QAM	24.06
mid	3717	647800	60	RB_100%	256QAM	22.19

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3769.98	651332	60	RB_1_low	16QAM	23.59
high	3769.98	651332	60	RB_1_low	64QAM	22.95
high	3769.98	651332	60	RB_1_low	256QAM	22.45
high	3769.98	651332	60	RB_1_low+1	16QAM	25.98
high	3769.98	651332	60	RB_1_low+1	64QAM	24.23
high	3769.98	651332	60	RB_1_low+1	256QAM	22.59
high	3769.98	651332	60	RB_1_high-1	16QAM	25.49
high	3769.98	651332	60	RB_1_high-1	64QAM	24.11
high	3769.98	651332	60	RB_1_high-1	256QAM	22.09
high	3769.98	651332	60	RB_1_high	16QAM	23.22
high	3769.98	651332	60	RB_1_high	64QAM	22.95
high	3769.98	651332	60	RB_1_high	256QAM	22.12
high	3769.98	651332	60	RB_50%_mid	16QAM	25.47
high	3769.98	651332	60	RB_50%_mid	64QAM	24.02
high	3769.98	651332	60	RB_50%_mid	256QAM	21.93
high	3769.98	651332	60	RB_100%	16QAM	24.62
high	3769.98	651332	60	RB_100%	64QAM	24.01
high	3769.98	651332	60	RB_100%	256QAM	22.08
low	3340.02	622668	80	RB_1_low	16QAM	22.19
low	3340.02	622668	80	RB_1_low	64QAM	22.04
low	3340.02	622668	80	RB_1_low	256QAM	21.07
low	3340.02	622668	80	RB_1_low+1	16QAM	24.68
low	3340.02	622668	80	RB_1_low+1	64QAM	23.33
low	3340.02	622668	80	RB_1_low+1	256QAM	21.31
low	3340.02	622668	80	RB_1_high-1	16QAM	24.79
low	3340.02	622668	80	RB_1_high-1	64QAM	23.51
low	3340.02	622668	80	RB_1_high-1	256QAM	21.44
low	3340.02	622668	80	RB_1_high	16QAM	25.07
low	3340.02	622668	80	RB_1_high	64QAM	23.42
low	3340.02	622668	80	RB_1_high	256QAM	21.35
low	3340.02	622668	80	RB_50%_mid	16QAM	24.56
low	3340.02	622668	80	RB_50%_mid	64QAM	22.99
low	3340.02	622668	80	RB_50%_mid	256QAM	21.17
low	3340.02	622668	80	RB_100%	16QAM	23.74
low	3340.02	622668	80	RB_100%	64QAM	23.21
low	3340.02	622668	80	RB_100%	256QAM	20.89
mid	3383.49	625566	80	RB_1_low	16QAM	22.32
mid	3383.49	625566	80	RB_1_low	64QAM	21.97
mid	3383.49	625566	80	RB_1_low	256QAM	21.38
mid	3383.49	625566	80	RB_1_low+1	16QAM	24.85
mid	3383.49	625566	80	RB_1_low+1	64QAM	22.90
mid	3383.49	625566	80	RB_1_low+1	256QAM	20.92
mid	3383.49	625566	80	RB_1_high-1	16QAM	25.55
mid	3383.49	625566	80	RB_1_high-1	64QAM	23.82
mid	3383.49	625566	80	RB_1_high-1	256QAM	21.97

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3383.49	625566	80	RB_1_high	16QAM	25.23
mid	3383.49	625566	80	RB_1_high	64QAM	23.61
mid	3383.49	625566	80	RB_1_high	256QAM	21.73
mid	3383.49	625566	80	RB_50%_mid	16QAM	25.09
mid	3383.49	625566	80	RB_50%_mid	64QAM	23.40
mid	3383.49	625566	80	RB_50%_mid	256QAM	21.51
mid	3383.49	625566	80	RB_100%	16QAM	23.97
mid	3383.49	625566	80	RB_100%	64QAM	23.50
mid	3383.49	625566	80	RB_100%	256QAM	21.44
high	3426.99	628466	80	RB_1_low	16QAM	22.60
high	3426.99	628466	80	RB_1_low	64QAM	22.90
high	3426.99	628466	80	RB_1_low	256QAM	21.70
high	3426.99	628466	80	RB_1_low+1	16QAM	25.18
high	3426.99	628466	80	RB_1_low+1	64QAM	23.69
high	3426.99	628466	80	RB_1_low+1	256QAM	21.39
high	3426.99	628466	80	RB_1_high-1	16QAM	25.86
high	3426.99	628466	80	RB_1_high-1	64QAM	24.13
high	3426.99	628466	80	RB_1_high-1	256QAM	21.90
high	3426.99	628466	80	RB_1_high	16QAM	25.68
high	3426.99	628466	80	RB_1_high	64QAM	24.24
high	3426.99	628466	80	RB_1_high	256QAM	21.95
high	3426.99	628466	80	RB_50%_mid	16QAM	25.26
high	3426.99	628466	80	RB_50%_mid	64QAM	24.02
high	3426.99	628466	80	RB_50%_mid	256QAM	21.90
high	3426.99	628466	80	RB_100%	16QAM	24.34
high	3426.99	628466	80	RB_100%	64QAM	23.73
high	3426.99	628466	80	RB_100%	256QAM	21.61
mid	3550.5	636700	80	RB_1_low	16QAM	23.64
mid	3550.5	636700	80	RB_1_low	64QAM	23.46
mid	3550.5	636700	80	RB_1_low	256QAM	22.72
mid	3550.5	636700	80	RB_1_low+1	16QAM	26.14
mid	3550.5	636700	80	RB_1_low+1	64QAM	24.75
mid	3550.5	636700	80	RB_1_low+1	256QAM	22.42
mid	3550.5	636700	80	RB_1_high-1	16QAM	25.38
mid	3550.5	636700	80	RB_1_high-1	64QAM	24.13
mid	3550.5	636700	80	RB_1_high-1	256QAM	22.26
mid	3550.5	636700	80	RB_1_high	16QAM	25.72
mid	3550.5	636700	80	RB_1_high	64QAM	23.97
mid	3550.5	636700	80	RB_1_high	256QAM	22.24
mid	3550.5	636700	80	RB_50%_mid	16QAM	25.87
mid	3550.5	636700	80	RB_50%_mid	64QAM	24.17
mid	3550.5	636700	80	RB_50%_mid	256QAM	22.50
mid	3550.5	636700	80	RB_100%	16QAM	24.84
mid	3550.5	636700	80	RB_100%	64QAM	24.51
mid	3550.5	636700	80	RB_100%	256QAM	22.48

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3340.02	622668	80	RB_1_low	BPSK	25.30
low	3340.02	622668	80	RB_1_low	QPSK	22.22
low	3340.02	622668	80	RB_1_low+1	BPSK	25.71
low	3340.02	622668	80	RB_1_low+1	QPSK	25.61
low	3340.02	622668	80	RB_1_high-1	BPSK	25.92
low	3340.02	622668	80	RB_1_high-1	QPSK	25.88
low	3340.02	622668	80	RB_1_high	BPSK	25.95
low	3340.02	622668	80	RB_1_high	QPSK	25.99
low	3340.02	622668	80	RB_50%_mid	BPSK	25.57
low	3340.02	622668	80	RB_50%_mid	QPSK	25.64
low	3340.02	622668	80	RB_100%	BPSK	25.29
low	3340.02	622668	80	RB_100%	QPSK	24.76
mid	3383.49	625566	80	RB_1_low	BPSK	25.39
mid	3383.49	625566	80	RB_1_low	QPSK	22.34
mid	3383.49	625566	80	RB_1_low+1	BPSK	25.78
mid	3383.49	625566	80	RB_1_low+1	QPSK	25.76
mid	3383.49	625566	80	RB_1_high-1	BPSK	26.26
mid	3383.49	625566	80	RB_1_high-1	QPSK	26.26
mid	3383.49	625566	80	RB_1_high	BPSK	26.26
mid	3383.49	625566	80	RB_1_high	QPSK	26.24
mid	3383.49	625566	80	RB_50%_mid	BPSK	26.03
mid	3383.49	625566	80	RB_50%_mid	QPSK	25.98
mid	3383.49	625566	80	RB_100%	BPSK	25.52
mid	3383.49	625566	80	RB_100%	QPSK	25.01
high	3426.99	628466	80	RB_1_low	BPSK	25.77
high	3426.99	628466	80	RB_1_low	QPSK	22.64
high	3426.99	628466	80	RB_1_low+1	BPSK	26.06
high	3426.99	628466	80	RB_1_low+1	QPSK	26.15
high	3426.99	628466	80	RB_1_high-1	BPSK	26.47
high	3426.99	628466	80	RB_1_high-1	QPSK	26.58
high	3426.99	628466	80	RB_1_high	BPSK	26.50
high	3426.99	628466	80	RB_1_high	QPSK	26.56
high	3426.99	628466	80	RB_50%_mid	BPSK	26.22
high	3426.99	628466	80	RB_50%_mid	QPSK	26.32
high	3426.99	628466	80	RB_100%	BPSK	25.68
high	3426.99	628466	80	RB_100%	QPSK	25.21
mid	3550.5	636700	80	RB_1_low	BPSK	26.41
mid	3550.5	636700	80	RB_1_low	QPSK	23.58
mid	3550.5	636700	80	RB_1_low+1	BPSK	27.03
mid	3550.5	636700	80	RB_1_low+1	QPSK	27.07
mid	3550.5	636700	80	RB_1_high-1	BPSK	26.80
mid	3550.5	636700	80	RB_1_high-1	QPSK	26.74
mid	3550.5	636700	80	RB_1_high	BPSK	26.76
mid	3550.5	636700	80	RB_1_high	QPSK	26.87
mid	3550.5	636700	80	RB_50%_mid	BPSK	26.95
mid	3550.5	636700	80	RB_50%_mid	QPSK	26.97

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3550.5	636700	80	RB_100%	BPSK	26.49
mid	3550.5	636700	80	RB_100%	QPSK	25.95
low	3674.01	644934	80	RB_1_low	BPSK	26.27
low	3674.01	644934	80	RB_1_low	QPSK	23.18
low	3674.01	644934	80	RB_1_low	16QAM	23.52
low	3674.01	644934	80	RB_1_low	64QAM	23.36
low	3674.01	644934	80	RB_1_low	256QAM	22.35
low	3674.01	644934	80	RB_1_low+1	BPSK	26.80
low	3674.01	644934	80	RB_1_low+1	QPSK	26.84
low	3674.01	644934	80	RB_1_low+1	16QAM	25.90
low	3674.01	644934	80	RB_1_low+1	64QAM	24.50
low	3674.01	644934	80	RB_1_low+1	256QAM	22.33
low	3674.01	644934	80	RB_1_high-1	BPSK	26.59
low	3674.01	644934	80	RB_1_high-1	QPSK	26.84
low	3674.01	644934	80	RB_1_high-1	16QAM	25.90
low	3674.01	644934	80	RB_1_high-1	64QAM	24.17
low	3674.01	644934	80	RB_1_high-1	256QAM	22.20
low	3674.01	644934	80	RB_1_high	BPSK	26.57
low	3674.01	644934	80	RB_1_high	QPSK	26.61
low	3674.01	644934	80	RB_1_high	16QAM	25.65
low	3674.01	644934	80	RB_1_high	64QAM	24.11
low	3674.01	644934	80	RB_1_high	256QAM	21.92
low	3674.01	644934	80	RB_50%_mid	BPSK	26.60
low	3674.01	644934	80	RB_50%_mid	QPSK	26.66
low	3674.01	644934	80	RB_50%_mid	16QAM	25.64
low	3674.01	644934	80	RB_50%_mid	64QAM	24.08
low	3674.01	644934	80	RB_50%_mid	256QAM	22.10
low	3674.01	644934	80	RB_100%	BPSK	26.30
low	3674.01	644934	80	RB_100%	QPSK	25.69
low	3674.01	644934	80	RB_100%	16QAM	24.73
low	3674.01	644934	80	RB_100%	64QAM	24.27
low	3674.01	644934	80	RB_100%	256QAM	22.28
mid	3717	647800	80	RB_1_low	BPSK	26.06
mid	3717	647800	80	RB_1_low	QPSK	23.06
mid	3717	647800	80	RB_1_low+1	BPSK	26.60
mid	3717	647800	80	RB_1_low+1	QPSK	26.55
mid	3717	647800	80	RB_1_high-1	BPSK	26.73
mid	3717	647800	80	RB_1_high-1	QPSK	26.71
mid	3717	647800	80	RB_1_high	BPSK	26.76
mid	3717	647800	80	RB_1_high	QPSK	26.82
mid	3717	647800	80	RB_50%_mid	BPSK	26.67
mid	3717	647800	80	RB_50%_mid	QPSK	26.57
mid	3717	647800	80	RB_100%	BPSK	26.13
mid	3717	647800	80	RB_100%	QPSK	25.54
high	3759.99	650666	80	RB_1_low	BPSK	23.21
high	3759.99	650666	80	RB_1_low	QPSK	23.12

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3759.99	650666	80	RB_1_low+1	BPSK	26.65
high	3759.99	650666	80	RB_1_low+1	QPSK	26.68
high	3759.99	650666	80	RB_1_high-1	BPSK	26.34
high	3759.99	650666	80	RB_1_high-1	QPSK	26.40
high	3759.99	650666	80	RB_1_high	BPSK	26.37
high	3759.99	650666	80	RB_1_high	QPSK	26.46
high	3759.99	650666	80	RB_50%_mid	BPSK	26.55
high	3759.99	650666	80	RB_50%_mid	QPSK	26.51
high	3759.99	650666	80	RB_100%	BPSK	26.08
high	3759.99	650666	80	RB_100%	QPSK	25.56
mid	3717	647800	80	RB_1_low	16QAM	23.02
mid	3717	647800	80	RB_1_low	64QAM	23.43
mid	3717	647800	80	RB_1_low	256QAM	21.95
mid	3717	647800	80	RB_1_low+1	16QAM	25.62
mid	3717	647800	80	RB_1_low+1	64QAM	23.87
mid	3717	647800	80	RB_1_low+1	256QAM	21.95
mid	3717	647800	80	RB_1_high-1	16QAM	25.64
mid	3717	647800	80	RB_1_high-1	64QAM	24.20
mid	3717	647800	80	RB_1_high-1	256QAM	22.35
mid	3717	647800	80	RB_1_high	16QAM	25.75
mid	3717	647800	80	RB_1_high	64QAM	24.30
mid	3717	647800	80	RB_1_high	256QAM	22.44
mid	3717	647800	80	RB_50%_mid	16QAM	25.66
mid	3717	647800	80	RB_50%_mid	64QAM	24.21
mid	3717	647800	80	RB_50%_mid	256QAM	22.11
mid	3717	647800	80	RB_100%	16QAM	24.61
mid	3717	647800	80	RB_100%	64QAM	24.14
mid	3717	647800	80	RB_100%	256QAM	21.99
high	3759.99	650666	80	RB_1_low	16QAM	22.82
high	3759.99	650666	80	RB_1_low	64QAM	23.27
high	3759.99	650666	80	RB_1_low	256QAM	22.48
high	3759.99	650666	80	RB_1_low+1	16QAM	25.58
high	3759.99	650666	80	RB_1_low+1	64QAM	24.23
high	3759.99	650666	80	RB_1_low+1	256QAM	22.40
high	3759.99	650666	80	RB_1_high-1	16QAM	25.12
high	3759.99	650666	80	RB_1_high-1	64QAM	23.83
high	3759.99	650666	80	RB_1_high-1	256QAM	22.20
high	3759.99	650666	80	RB_1_high	16QAM	25.51
high	3759.99	650666	80	RB_1_high	64QAM	23.85
high	3759.99	650666	80	RB_1_high	256QAM	21.93
high	3759.99	650666	80	RB_50%_mid	16QAM	25.53
high	3759.99	650666	80	RB_50%_mid	64QAM	24.06
high	3759.99	650666	80	RB_50%_mid	256QAM	22.16
high	3759.99	650666	80	RB_100%	16QAM	24.55
high	3759.99	650666	80	RB_100%	64QAM	24.12
high	3759.99	650666	80	RB_100%	256QAM	22.10

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3345	623000	90	RB_1_low	16QAM	22.17
low	3345	623000	90	RB_1_low	64QAM	22.28
low	3345	623000	90	RB_1_low	256QAM	20.99
low	3345	623000	90	RB_1_low+1	16QAM	24.69
low	3345	623000	90	RB_1_low+1	64QAM	23.25
low	3345	623000	90	RB_1_low+1	256QAM	21.12
low	3345	623000	90	RB_1_high-1	16QAM	24.94
low	3345	623000	90	RB_1_high-1	64QAM	23.51
low	3345	623000	90	RB_1_high-1	256QAM	21.48
low	3345	623000	90	RB_1_high	16QAM	24.95
low	3345	623000	90	RB_1_high	64QAM	23.55
low	3345	623000	90	RB_1_high	256QAM	21.57
low	3345	623000	90	RB_50%_mid	16QAM	24.69
low	3345	623000	90	RB_50%_mid	64QAM	23.44
low	3345	623000	90	RB_50%_mid	256QAM	21.42
low	3345	623000	90	RB_100%	16QAM	23.68
low	3345	623000	90	RB_100%	64QAM	23.32
low	3345	623000	90	RB_100%	256QAM	21.18
mid	3383.49	625566	90	RB_1_low	16QAM	22.36
mid	3383.49	625566	90	RB_1_low	64QAM	21.84
mid	3383.49	625566	90	RB_1_low	256QAM	21.19
mid	3383.49	625566	90	RB_1_low+1	16QAM	24.80
mid	3383.49	625566	90	RB_1_low+1	64QAM	23.42
mid	3383.49	625566	90	RB_1_low+1	256QAM	21.27
mid	3383.49	625566	90	RB_1_high-1	16QAM	25.14
mid	3383.49	625566	90	RB_1_high-1	64QAM	23.58
mid	3383.49	625566	90	RB_1_high-1	256QAM	21.97
mid	3383.49	625566	90	RB_1_high	16QAM	25.48
mid	3383.49	625566	90	RB_1_high	64QAM	23.76
mid	3383.49	625566	90	RB_1_high	256QAM	21.65
mid	3383.49	625566	90	RB_50%_mid	16QAM	25.20
mid	3383.49	625566	90	RB_50%_mid	64QAM	23.35
mid	3383.49	625566	90	RB_50%_mid	256QAM	21.20
mid	3383.49	625566	90	RB_100%	16QAM	23.87
mid	3383.49	625566	90	RB_100%	64QAM	23.49
mid	3383.49	625566	90	RB_100%	256QAM	21.28
high	3421.98	628132	90	RB_1_low	16QAM	22.71
high	3421.98	628132	90	RB_1_low	64QAM	22.59
high	3421.98	628132	90	RB_1_low	256QAM	21.70
high	3421.98	628132	90	RB_1_low+1	16QAM	25.15
high	3421.98	628132	90	RB_1_low+1	64QAM	23.80
high	3421.98	628132	90	RB_1_low+1	256QAM	21.57
high	3421.98	628132	90	RB_1_high-1	16QAM	25.26
high	3421.98	628132	90	RB_1_high-1	64QAM	23.84
high	3421.98	628132	90	RB_1_high-1	256QAM	21.75

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3421.98	628132	90	RB_1_high	16QAM	25.60
high	3421.98	628132	90	RB_1_high	64QAM	24.08
high	3421.98	628132	90	RB_1_high	256QAM	22.19
high	3421.98	628132	90	RB_50%_mid	16QAM	24.93
high	3421.98	628132	90	RB_50%_mid	64QAM	23.91
high	3421.98	628132	90	RB_50%_mid	256QAM	21.15
high	3421.98	628132	90	RB_100%	16QAM	24.25
high	3421.98	628132	90	RB_100%	64QAM	23.75
high	3421.98	628132	90	RB_100%	256QAM	21.71
mid	3550.5	636700	90	RB_1_low	16QAM	23.53
mid	3550.5	636700	90	RB_1_low	64QAM	23.78
mid	3550.5	636700	90	RB_1_low	256QAM	22.79
mid	3550.5	636700	90	RB_1_low+1	16QAM	26.08
mid	3550.5	636700	90	RB_1_low+1	64QAM	25.03
mid	3550.5	636700	90	RB_1_low+1	256QAM	22.65
mid	3550.5	636700	90	RB_1_high-1	16QAM	25.76
mid	3550.5	636700	90	RB_1_high-1	64QAM	23.94
mid	3550.5	636700	90	RB_1_high-1	256QAM	22.40
mid	3550.5	636700	90	RB_1_high	16QAM	25.85
mid	3550.5	636700	90	RB_1_high	64QAM	24.25
mid	3550.5	636700	90	RB_1_high	256QAM	22.38
mid	3550.5	636700	90	RB_50%_mid	16QAM	26.01
mid	3550.5	636700	90	RB_50%_mid	64QAM	24.58
mid	3550.5	636700	90	RB_50%_mid	256QAM	22.66
mid	3550.5	636700	90	RB_100%	16QAM	24.96
mid	3550.5	636700	90	RB_100%	64QAM	24.51
mid	3550.5	636700	90	RB_100%	256QAM	22.48
low	3679.02	645268	90	RB_1_low	16QAM	23.38
low	3679.02	645268	90	RB_1_low	64QAM	23.39
low	3679.02	645268	90	RB_1_low	256QAM	22.51
low	3679.02	645268	90	RB_1_low+1	16QAM	25.79
low	3679.02	645268	90	RB_1_low+1	64QAM	24.31
low	3679.02	645268	90	RB_1_low+1	256QAM	22.29
low	3679.02	645268	90	RB_1_high-1	16QAM	25.98
low	3679.02	645268	90	RB_1_high-1	64QAM	24.17
low	3679.02	645268	90	RB_1_high-1	256QAM	22.29
low	3679.02	645268	90	RB_1_high	16QAM	25.63
low	3679.02	645268	90	RB_1_high	64QAM	24.03
low	3679.02	645268	90	RB_1_high	256QAM	22.16
low	3679.02	645268	90	RB_50%_mid	16QAM	25.69
low	3679.02	645268	90	RB_50%_mid	64QAM	24.32
low	3679.02	645268	90	RB_50%_mid	256QAM	22.48
low	3679.02	645268	90	RB_100%	16QAM	24.75
low	3679.02	645268	90	RB_100%	64QAM	24.21
low	3679.02	645268	90	RB_100%	256QAM	22.59

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3345	623000	90	RB_1_low	BPSK	22.35
low	3345	623000	90	RB_1_low	QPSK	22.16
low	3345	623000	90	RB_1_low+1	BPSK	25.72
low	3345	623000	90	RB_1_low+1	QPSK	25.71
low	3345	623000	90	RB_1_high-1	BPSK	26.02
low	3345	623000	90	RB_1_high-1	QPSK	25.96
low	3345	623000	90	RB_1_high	BPSK	25.98
low	3345	623000	90	RB_1_high	QPSK	25.96
low	3345	623000	90	RB_50%_mid	BPSK	25.78
low	3345	623000	90	RB_50%_mid	QPSK	25.73
low	3345	623000	90	RB_100%	BPSK	25.26
low	3345	623000	90	RB_100%	QPSK	24.61
mid	3383.49	625566	90	RB_1_low	BPSK	25.44
mid	3383.49	625566	90	RB_1_low	QPSK	22.28
mid	3383.49	625566	90	RB_1_low+1	BPSK	25.77
mid	3383.49	625566	90	RB_1_low+1	QPSK	25.70
mid	3383.49	625566	90	RB_1_high-1	BPSK	26.22
mid	3383.49	625566	90	RB_1_high-1	QPSK	26.22
mid	3383.49	625566	90	RB_1_high	BPSK	26.26
mid	3383.49	625566	90	RB_1_high	QPSK	26.19
mid	3383.49	625566	90	RB_50%_mid	BPSK	25.80
mid	3383.49	625566	90	RB_50%_mid	QPSK	25.71
mid	3383.49	625566	90	RB_100%	BPSK	25.44
mid	3383.49	625566	90	RB_100%	QPSK	24.93
high	3421.98	628132	90	RB_1_low	BPSK	25.65
high	3421.98	628132	90	RB_1_low	QPSK	22.66
high	3421.98	628132	90	RB_1_low+1	BPSK	26.09
high	3421.98	628132	90	RB_1_low+1	QPSK	26.17
high	3421.98	628132	90	RB_1_high-1	BPSK	26.49
high	3421.98	628132	90	RB_1_high-1	QPSK	26.42
high	3421.98	628132	90	RB_1_high	BPSK	26.52
high	3421.98	628132	90	RB_1_high	QPSK	26.36
high	3421.98	628132	90	RB_50%_mid	BPSK	26.13
high	3421.98	628132	90	RB_50%_mid	QPSK	26.10
high	3421.98	628132	90	RB_100%	BPSK	25.67
high	3421.98	628132	90	RB_100%	QPSK	25.28
mid	3550.5	636700	90	RB_1_low	BPSK	26.46
mid	3550.5	636700	90	RB_1_low	QPSK	23.62
mid	3550.5	636700	90	RB_1_low+1	BPSK	27.09
mid	3550.5	636700	90	RB_1_low+1	QPSK	27.16
mid	3550.5	636700	90	RB_1_high-1	BPSK	26.75
mid	3550.5	636700	90	RB_1_high-1	QPSK	26.60
mid	3550.5	636700	90	RB_1_high	BPSK	26.79
mid	3550.5	636700	90	RB_1_high	QPSK	26.88
mid	3550.5	636700	90	RB_50%_mid	BPSK	27.07
mid	3550.5	636700	90	RB_50%_mid	QPSK	27.16

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3550.5	636700	90	RB_100%	BPSK	26.45
mid	3550.5	636700	90	RB_100%	QPSK	25.96
low	3679.02	645268	90	RB_1_low	BPSK	23.35
low	3679.02	645268	90	RB_1_low	QPSK	23.35
low	3679.02	645268	90	RB_1_low+1	BPSK	26.87
low	3679.02	645268	90	RB_1_low+1	QPSK	26.95
low	3679.02	645268	90	RB_1_high-1	BPSK	26.69
low	3679.02	645268	90	RB_1_high-1	QPSK	26.75
low	3679.02	645268	90	RB_1_high	BPSK	26.64
low	3679.02	645268	90	RB_1_high	QPSK	26.67
low	3679.02	645268	90	RB_50%_mid	BPSK	26.73
low	3679.02	645268	90	RB_50%_mid	QPSK	26.67
low	3679.02	645268	90	RB_100%	BPSK	26.28
low	3679.02	645268	90	RB_100%	QPSK	25.75
mid	3717	647800	90	RB_1_low	BPSK	26.12
mid	3717	647800	90	RB_1_low	QPSK	23.42
mid	3717	647800	90	RB_1_low	16QAM	23.38
mid	3717	647800	90	RB_1_low	64QAM	23.19
mid	3717	647800	90	RB_1_low	256QAM	22.68
mid	3717	647800	90	RB_1_low+1	BPSK	26.73
mid	3717	647800	90	RB_1_low+1	QPSK	26.73
mid	3717	647800	90	RB_1_low+1	16QAM	25.66
mid	3717	647800	90	RB_1_low+1	64QAM	24.37
mid	3717	647800	90	RB_1_low+1	256QAM	22.25
mid	3717	647800	90	RB_1_high-1	BPSK	26.66
mid	3717	647800	90	RB_1_high-1	QPSK	26.65
mid	3717	647800	90	RB_1_high-1	16QAM	25.70
mid	3717	647800	90	RB_1_high-1	64QAM	23.85
mid	3717	647800	90	RB_1_high-1	256QAM	22.03
mid	3717	647800	90	RB_1_high	BPSK	26.58
mid	3717	647800	90	RB_1_high	QPSK	26.60
mid	3717	647800	90	RB_1_high	16QAM	25.96
mid	3717	647800	90	RB_1_high	64QAM	24.21
mid	3717	647800	90	RB_1_high	256QAM	22.34
mid	3717	647800	90	RB_50%_mid	BPSK	26.69
mid	3717	647800	90	RB_50%_mid	QPSK	26.73
mid	3717	647800	90	RB_50%_mid	16QAM	25.71
mid	3717	647800	90	RB_50%_mid	64QAM	24.28
mid	3717	647800	90	RB_50%_mid	256QAM	22.27
mid	3717	647800	90	RB_100%	BPSK	26.07
mid	3717	647800	90	RB_100%	QPSK	25.58
mid	3717	647800	90	RB_100%	16QAM	24.55
mid	3717	647800	90	RB_100%	64QAM	24.18
mid	3717	647800	90	RB_100%	256QAM	22.12
high	3754.98	650332	90	RB_1_low	BPSK	26.15
high	3754.98	650332	90	RB_1_low	QPSK	23.19

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3754.98	650332	90	RB_1_low+1	BPSK	26.73
high	3754.98	650332	90	RB_1_low+1	QPSK	26.72
high	3754.98	650332	90	RB_1_high-1	BPSK	26.42
high	3754.98	650332	90	RB_1_high-1	QPSK	26.45
high	3754.98	650332	90	RB_1_high	BPSK	26.50
high	3754.98	650332	90	RB_1_high	QPSK	26.39
high	3754.98	650332	90	RB_50%_mid	BPSK	26.68
high	3754.98	650332	90	RB_50%_mid	QPSK	26.73
high	3754.98	650332	90	RB_100%	BPSK	26.17
high	3754.98	650332	90	RB_100%	QPSK	25.66
high	3754.98	650332	90	RB_1_low	16QAM	23.18
high	3754.98	650332	90	RB_1_low	64QAM	23.36
high	3754.98	650332	90	RB_1_low	256QAM	22.07
high	3754.98	650332	90	RB_1_low+1	16QAM	25.80
high	3754.98	650332	90	RB_1_low+1	64QAM	24.05
high	3754.98	650332	90	RB_1_low+1	256QAM	22.32
high	3754.98	650332	90	RB_1_high-1	16QAM	25.38
high	3754.98	650332	90	RB_1_high-1	64QAM	23.87
high	3754.98	650332	90	RB_1_high-1	256QAM	22.14
high	3754.98	650332	90	RB_1_high	16QAM	25.49
high	3754.98	650332	90	RB_1_high	64QAM	23.94
high	3754.98	650332	90	RB_1_high	256QAM	21.77
high	3754.98	650332	90	RB_50%_mid	16QAM	25.48
high	3754.98	650332	90	RB_50%_mid	64QAM	24.29
high	3754.98	650332	90	RB_50%_mid	256QAM	22.24
high	3754.98	650332	90	RB_100%	16QAM	24.70
high	3754.98	650332	90	RB_100%	64QAM	24.21
high	3754.98	650332	90	RB_100%	256QAM	22.18
low	3350.01	623334	100	RB_1_low	16QAM	22.32
low	3350.01	623334	100	RB_1_low	64QAM	21.96
low	3350.01	623334	100	RB_1_low	256QAM	21.26
low	3350.01	623334	100	RB_1_low+1	16QAM	24.81
low	3350.01	623334	100	RB_1_low+1	64QAM	23.17
low	3350.01	623334	100	RB_1_low+1	256QAM	21.00
low	3350.01	623334	100	RB_1_high-1	16QAM	24.80
low	3350.01	623334	100	RB_1_high-1	64QAM	23.59
low	3350.01	623334	100	RB_1_high-1	256QAM	21.31
low	3350.01	623334	100	RB_1_high	16QAM	24.89
low	3350.01	623334	100	RB_1_high	64QAM	23.41
low	3350.01	623334	100	RB_1_high	256QAM	21.38
low	3350.01	623334	100	RB_50%_mid	16QAM	24.54
low	3350.01	623334	100	RB_50%_mid	64QAM	23.12
low	3350.01	623334	100	RB_50%_mid	256QAM	21.07
low	3350.01	623334	100	RB_100%	16QAM	23.67
low	3350.01	623334	100	RB_100%	64QAM	23.27
low	3350.01	623334	100	RB_100%	256QAM	20.96

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3383.49	625566	100	RB_1_low	16QAM	22.09
mid	3383.49	625566	100	RB_1_low	64QAM	22.03
mid	3383.49	625566	100	RB_1_low	256QAM	21.26
mid	3383.49	625566	100	RB_1_low+1	16QAM	24.68
mid	3383.49	625566	100	RB_1_low+1	64QAM	23.06
mid	3383.49	625566	100	RB_1_low+1	256QAM	21.02
mid	3383.49	625566	100	RB_1_high-1	16QAM	25.27
mid	3383.49	625566	100	RB_1_high-1	64QAM	23.93
mid	3383.49	625566	100	RB_1_high-1	256QAM	21.87
mid	3383.49	625566	100	RB_1_high	16QAM	25.59
mid	3383.49	625566	100	RB_1_high	64QAM	23.61
mid	3383.49	625566	100	RB_1_high	256QAM	21.96
mid	3383.49	625566	100	RB_50%_mid	16QAM	24.94
mid	3383.49	625566	100	RB_50%_mid	64QAM	23.60
mid	3383.49	625566	100	RB_50%_mid	256QAM	21.42
mid	3383.49	625566	100	RB_100%	16QAM	23.92
mid	3383.49	625566	100	RB_100%	64QAM	23.51
mid	3383.49	625566	100	RB_100%	256QAM	21.47
high	3417	627800	100	RB_1_low	16QAM	22.68
high	3417	627800	100	RB_1_low	64QAM	22.57
high	3417	627800	100	RB_1_low	256QAM	22.06
high	3417	627800	100	RB_1_low+1	16QAM	25.14
high	3417	627800	100	RB_1_low+1	64QAM	23.57
high	3417	627800	100	RB_1_low+1	256QAM	21.91
high	3417	627800	100	RB_1_high-1	16QAM	25.57
high	3417	627800	100	RB_1_high-1	64QAM	23.83
high	3417	627800	100	RB_1_high-1	256QAM	21.85
high	3417	627800	100	RB_1_high	16QAM	25.21
high	3417	627800	100	RB_1_high	64QAM	24.16
high	3417	627800	100	RB_1_high	256QAM	22.15
high	3417	627800	100	RB_50%_mid	16QAM	25.32
high	3417	627800	100	RB_50%_mid	64QAM	23.76
high	3417	627800	100	RB_50%_mid	256QAM	21.71
high	3417	627800	100	RB_100%	16QAM	24.27
high	3417	627800	100	RB_100%	64QAM	23.69
high	3417	627800	100	RB_100%	256QAM	21.78
mid	3550.5	636700	100	RB_1_low	16QAM	23.61
mid	3550.5	636700	100	RB_1_low	64QAM	23.50
mid	3550.5	636700	100	RB_1_low	256QAM	22.76
mid	3550.5	636700	100	RB_1_low+1	16QAM	26.25
mid	3550.5	636700	100	RB_1_low+1	64QAM	24.59
mid	3550.5	636700	100	RB_1_low+1	256QAM	22.73
mid	3550.5	636700	100	RB_1_high-1	16QAM	25.76
mid	3550.5	636700	100	RB_1_high-1	64QAM	23.79
mid	3550.5	636700	100	RB_1_high-1	256QAM	22.43

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3550.5	636700	100	RB_1_high	16QAM	25.60
mid	3550.5	636700	100	RB_1_high	64QAM	24.68
mid	3550.5	636700	100	RB_1_high	256QAM	22.19
mid	3550.5	636700	100	RB_50%_mid	16QAM	25.92
mid	3550.5	636700	100	RB_50%_mid	64QAM	24.47
mid	3550.5	636700	100	RB_50%_mid	256QAM	22.52
mid	3550.5	636700	100	RB_100%	16QAM	24.97
mid	3550.5	636700	100	RB_100%	64QAM	24.46
mid	3550.5	636700	100	RB_100%	256QAM	22.45
low	3684	645600	100	RB_1_low	16QAM	23.25
low	3684	645600	100	RB_1_low	64QAM	23.58
low	3684	645600	100	RB_1_low	256QAM	22.45
low	3684	645600	100	RB_1_low+1	16QAM	25.79
low	3684	645600	100	RB_1_low+1	64QAM	24.52
low	3684	645600	100	RB_1_low+1	256QAM	22.47
low	3684	645600	100	RB_1_high-1	16QAM	25.45
low	3684	645600	100	RB_1_high-1	64QAM	24.25
low	3684	645600	100	RB_1_high-1	256QAM	22.10
low	3684	645600	100	RB_1_high	16QAM	25.93
low	3684	645600	100	RB_1_high	64QAM	24.21
low	3684	645600	100	RB_1_high	256QAM	22.48
low	3684	645600	100	RB_50%_mid	16QAM	25.62
low	3684	645600	100	RB_50%_mid	64QAM	24.21
low	3684	645600	100	RB_50%_mid	256QAM	22.08
low	3684	645600	100	RB_100%	16QAM	24.73
low	3684	645600	100	RB_100%	64QAM	24.36
low	3684	645600	100	RB_100%	256QAM	22.25
mid	3717	647800	100	RB_1_low	16QAM	22.99
mid	3717	647800	100	RB_1_low	64QAM	23.35
mid	3717	647800	100	RB_1_low	256QAM	22.73
mid	3717	647800	100	RB_1_low+1	16QAM	25.91
mid	3717	647800	100	RB_1_low+1	64QAM	24.42
mid	3717	647800	100	RB_1_low+1	256QAM	22.56
mid	3717	647800	100	RB_1_high-1	16QAM	25.40
mid	3717	647800	100	RB_1_high-1	64QAM	23.85
mid	3717	647800	100	RB_1_high-1	256QAM	21.98
mid	3717	647800	100	RB_1_high	16QAM	25.53
mid	3717	647800	100	RB_1_high	64QAM	23.87
mid	3717	647800	100	RB_1_high	256QAM	22.04
mid	3717	647800	100	RB_50%_mid	16QAM	25.61
mid	3717	647800	100	RB_50%_mid	64QAM	24.17
mid	3717	647800	100	RB_50%_mid	256QAM	22.16
mid	3717	647800	100	RB_100%	16QAM	24.59
mid	3717	647800	100	RB_100%	64QAM	24.13
mid	3717	647800	100	RB_100%	256QAM	22.11

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
low	3350.01	623334	100	RB_1_low	BPSK	22.46
low	3350.01	623334	100	RB_1_low	QPSK	22.24
low	3350.01	623334	100	RB_1_low+1	BPSK	25.77
low	3350.01	623334	100	RB_1_low+1	QPSK	25.75
low	3350.01	623334	100	RB_1_high-1	BPSK	25.96
low	3350.01	623334	100	RB_1_high-1	QPSK	25.96
low	**3350.01**	**623334**	**100**	**RB_1_high**	**BPSK**	26.01
low	3350.01	623334	100	RB_1_high	QPSK	25.86
low	3350.01	623334	100	RB_50%_mid	BPSK	25.58
low	3350.01	623334	100	RB_50%_mid	QPSK	25.62
low	3350.01	623334	100	RB_100%	BPSK	25.17
low	3350.01	623334	100	RB_100%	QPSK	24.82
mid	3383.49	625566	100	RB_1_low	BPSK	25.48
mid	3383.49	625566	100	RB_1_low	QPSK	22.20
mid	3383.49	625566	100	RB_1_low+1	BPSK	25.50
mid	3383.49	625566	100	RB_1_low+1	QPSK	25.64
mid	3383.49	625566	100	RB_1_high-1	BPSK	26.27
mid	**3383.49**	**625566**	**100**	**RB_1_high-1**	**QPSK**	**26.31**
mid	3383.49	625566	100	RB_1_high	BPSK	26.26
mid	3383.49	625566	100	RB_1_high	QPSK	26.17
mid	3383.49	625566	100	RB_50%_mid	BPSK	26.05
mid	3383.49	625566	100	RB_50%_mid	QPSK	26.01
mid	3383.49	625566	100	RB_100%	BPSK	25.54
mid	3383.49	625566	100	RB_100%	QPSK	24.99
high	3417	627800	100	RB_1_low	BPSK	25.74
high	3417	627800	100	RB_1_low	QPSK	22.82
high	**3417**	**627800**	**100**	**RB_1_low+1**	**BPSK**	**26.18**
high	3417	627800	100	RB_1_low+1	QPSK	26.15
high	3417	627800	100	RB_1_high-1	BPSK	26.53
high	3417	627800	100	RB_1_high-1	QPSK	26.41
high	3417	627800	100	RB_1_high	BPSK	26.49
high	3417	627800	100	RB_1_high	QPSK	26.50
high	3417	627800	100	RB_50%_mid	BPSK	26.25
high	3417	627800	100	RB_50%_mid	QPSK	26.20
high	3417	627800	100	RB_100%	BPSK	25.84
high	3417	627800	100	RB_100%	QPSK	25.20
mid	3550.5	636700	100	RB_1_low	BPSK	26.42
mid	3550.5	636700	100	RB_1_low	QPSK	23.62
mid	3550.5	636700	100	RB_1_low+1	BPSK	27.20
mid	**3550.5**	**636700**	**100**	**RB_1_low+1**	**QPSK**	**27.29**
mid	3550.5	636700	100	RB_1_high-1	BPSK	26.71
mid	3550.5	636700	100	RB_1_high-1	QPSK	26.72
mid	3550.5	636700	100	RB_1_high	BPSK	26.69
mid	3550.5	636700	100	RB_1_high	QPSK	26.67
mid	**3550.5**	**636700**	**100**	**RB_50%_mid**	**BPSK**	**27.01**
mid	3550.5	636700	100	RB_50%_mid	QPSK	26.97

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
mid	3550.5	636700	100	RB_100%	BPSK	26.48
mid	3550.5	636700	100	RB_100%	QPSK	25.88
low	3684	645600	100	RB_1_low	BPSK	23.47
low	3684	645600	100	RB_1_low	QPSK	23.45
low	3684	645600	100	RB_1_low+1	BPSK	26.87
low	**3684**	**645600**	**100**	**RB_1_low+1**	**QPSK**	**26.88**
low	3684	645600	100	RB_1_high-1	BPSK	26.59
low	3684	645600	100	RB_1_high-1	QPSK	26.61
low	3684	645600	100	RB_1_high	BPSK	26.64
low	3684	645600	100	RB_1_high	QPSK	26.61
low	3684	645600	100	RB_50%_mid	BPSK	26.65
low	3684	645600	100	RB_50%_mid	QPSK	26.61
low	3684	645600	100	RB_100%	BPSK	26.33
low	3684	645600	100	RB_100%	QPSK	25.72
mid	3717	647800	100	RB_1_low	BPSK	26.18
mid	3717	647800	100	RB_1_low	QPSK	23.31
mid	**3717**	**647800**	**100**	**RB_1_low+1**	**BPSK**	**26.83**
mid	3717	647800	100	RB_1_low+1	QPSK	26.81
mid	3717	647800	100	RB_1_high-1	BPSK	26.43
mid	3717	647800	100	RB_1_high-1	QPSK	26.46
mid	3717	647800	100	RB_1_high	BPSK	26.39
mid	3717	647800	100	RB_1_high	QPSK	26.37
mid	3717	647800	100	RB_50%_mid	BPSK	26.67
mid	3717	647800	100	RB_50%_mid	QPSK	26.67
mid	3717	647800	100	RB_100%	BPSK	26.20
mid	3717	647800	100	RB_100%	QPSK	25.60
high	3750	650000	100	RB_1_low	BPSK	26.15
high	3750	650000	100	RB_1_low	QPSK	23.37
high	3750	650000	100	RB_1_low	16QAM	23.57
high	3750	650000	100	RB_1_low	64QAM	23.61
high	3750	650000	100	RB_1_low	256QAM	22.33
high	3750	650000	100	RB_1_low+1	BPSK	26.88
high	**3750**	**650000**	**100**	**RB_1_low+1**	**QPSK**	**26.90**
high	3750	650000	100	RB_1_low+1	16QAM	25.63
high	3750	650000	100	RB_1_low+1	64QAM	24.64
high	3750	650000	100	RB_1_low+1	256QAM	22.35
high	3750	650000	100	RB_1_high-1	BPSK	26.47
high	3750	650000	100	RB_1_high-1	QPSK	26.46
high	3750	650000	100	RB_1_high-1	16QAM	25.61
high	3750	650000	100	RB_1_high-1	64QAM	23.96
high	3750	650000	100	RB_1_high-1	256QAM	21.87
high	3750	650000	100	RB_1_high	BPSK	26.47
high	3750	650000	100	RB_1_high	QPSK	26.47
high	3750	650000	100	RB_1_high	16QAM	25.43
high	3750	650000	100	RB_1_high	64QAM	23.79
high	3750	650000	100	RB_1_high	256QAM	22.33

Channel	Frequency [MHz]	Channel	Bandwidth [MHz]	Resource block allocation	Modulatio	P_{avg} [dBm]
high	3750	650000	100	RB_50%_mid	BPSK	26.64
high	3750	650000	100	RB_50%_mid	QPSK	26.59
high	3750	650000	100	RB_50%_mid	16QAM	25.58
high	3750	650000	100	RB_50%_mid	64QAM	24.03
high	3750	650000	100	RB_50%_mid	256QAM	21.98
high	3750	650000	100	RB_100%	BPSK	26.11
high	3750	650000	100	RB_100%	QPSK	25.61
high	3750	650000	100	RB_100%	16QAM	24.75
high	3750	650000	100	RB_100%	64QAM	24.14
high	3750	650000	100	RB_100%	256QAM	22.18

Table 35: Test results conducted power measurement 5G NR TDD n78 3500 MHz.

8.2 SAR Test exemption according to RSS 102 Issue 6

Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance

Frequency (MHz)	≤ 5 mm (mW)	10 mm (mW)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

The exemption limits in table 11 Table 11 of RSS 102 are based on measurements and simulations of half-wave dipole antennas at separation distances of 5 mm to 50 mm from a flat phantom, which provides a SAR value of approximately 0.4 W/kg for 1 g of tissue.
For limb-worn devices where the 10 gram of tissue applies, the exemption limits for routine evaluation in table 11of RSS 102 are multiplied by a factor of 2.5.
For controlled-use devices where the 8 W/kg for 1 gram of tissue applies, the exemption limits for routine evaluation in table 11 of RSS 102 are multiplied by a factor of 5.
When the operating frequency of the device is between two frequencies located in table 11 of RSS102, linear interpolation shall be applied for the applicable separation distance. If the separation distance of the device is between two distances located in table 11 of RSS 102, linear interpolation may be applied for the applicable frequency. Alternatively, the limit corresponding to the smaller distance may be employed. For example, in case of a 7 mm separation distance, either use the exception value for a 5 mm separation distance or interpolate between the limits corresponding to 5 mm and 10 mm separation distances.

For implanted medical devices, the exemption limit for routine SAR evaluation is set at an output power of 1 mW, regardless of frequency.

The SAR levels from exempted transmitters shall be included in the compliance assessment and the determination of the TER.

8.2.1 Results

Declared test separation distance by customer: d = 16 mm

SRD Technology	Frequency min [MHz]	Output Power [dBm]	Output Power [mW]	Limit [mW]	Share of Limit [%]
RKE Antenna 1	433	11.5	14.1	92.9	15.2
RKE Antenna 2	433	11.5	14.1	92.9	15.2

Values:

Value	*Explanation*
Output Power	Maximum time-averaged radiated EIRP as measured in the test report(s) after application of Duty Cycle Factors
Limit	SAR-based threshold in mW.
Share of Limit	Output Power / Limit

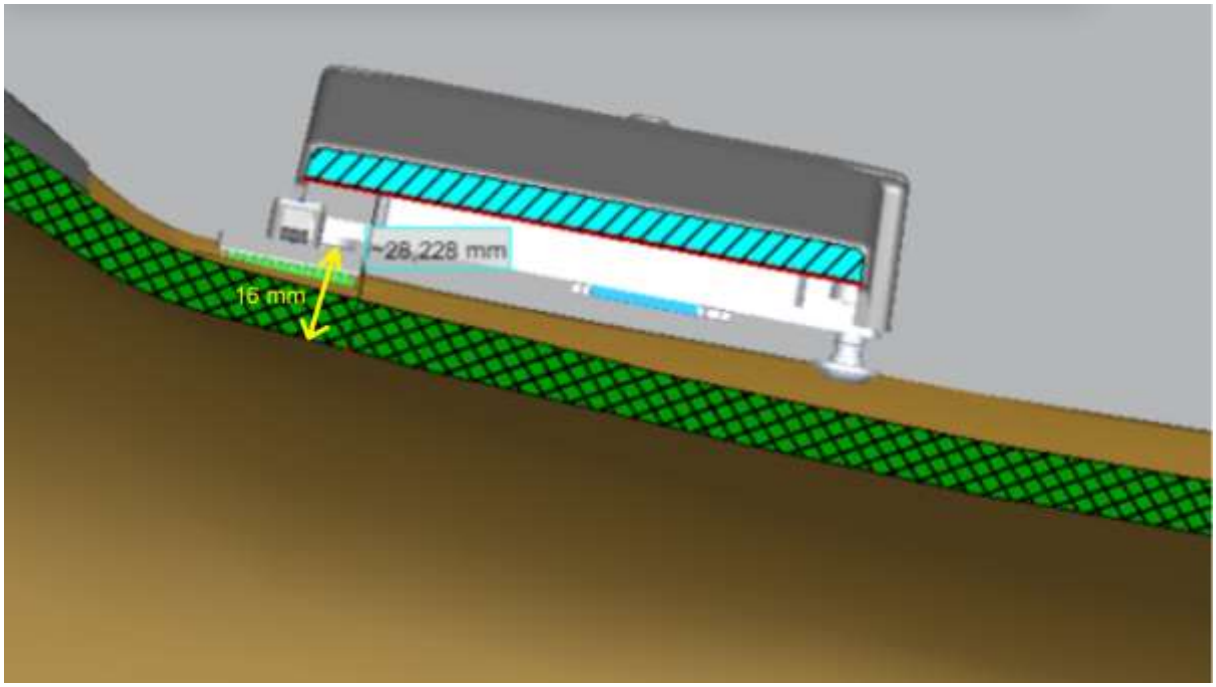
Referenced Document	*Referenced Values*
ARTEMIS_Tune-up-information.pdf	9dBm+ 2.5 dBi tune up tolerance, + 0 dBi Antenna gain=11.5 dBm Pg. 9

8.2.2 SAR Test Exemption Conclusion

According to RSS-102 Issue 6 the RF Exposure Test Exemptions applies.

Result:
All ratios are below 1 (≤ 100 %). Certification can be obtained without the need of showing data (measurements, or analytical/numerical modeling) to demonstrate RF Exposure compliance.

8.2.3 SAR measurement positions



This is the distance 16 mm of ARTEMIS to the headliner inner surface.

8.3 SAR test results

8.3.1 General description of test procedures

- The DUT is tested using Anritsu MT8000A and CMW 500 communications testers 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 below are in accordance with the specified test standard.
- UMTS was tested in RMC mode with 12.2 kbit/s and TPC bits set to 'all 1'.
- According to IEC/IEEE 62209-1528 the SAR test shall be performed at the channel producing the highest rated output power.
  - When the width of the transmit frequency band ($\Delta f = f_{high} - f_{low}$) exceeds 1 % of its centre frequency fc, the channels at the lowest and highest frequencies of the transmit band shall also be tested.
  - When the width of the transmit frequency band exceeds 10 % of its centre frequency. The following formula shall be used to determine the number of channels, N_c, to be tested:

$$\mathrm{Nc} = 2 \times roundup\,[\frac{10 * (fhigh - flow)}{fc}] + 1$$

where
f_c is the centre frequency channel of the transmission band in Hz;
f_{high} is the highest frequency channel of the transmission band in Hz;
f_{low} is the lowest frequency channel of the transmission band in Hz;
N_c is the number of channels

- According to KDB 447498 D01 testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
  - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
  - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

8.3.2 Results overview

Frequency band	Ch.	Freq. (MHz)	test cond.	cond. P_{max} (dBm)		**SAR_{1g} (W/kg)**		SAR_{10g} (W/kg)		liquid (°C)
				declared*	meas.	meas.	extrap.	meas.	extrap.	
UMTS FDD II	9262	1852.4	QPSK, 12,2 kbps	24.0	22.2	0.123	0.187	0.074	0.112	22.8
	9400	1880.0	QPSK, 12,2 kbps	24.0	22.2	**0.143**	**0.218**	0.086	0.131	22.8
	9538	1907.6	QPSK, 12,2 kbps	24.0	22.1	0.139	0.215	0.820	1.267	22.8
UMTS FDD IV	1312	1712.4	QPSK, 12,2 kbps	24.0	22.1	0.128	0.196	0.081	0.124	22.8
	1412	1732.4	QPSK, 12,2 kbps	24.0	22.3	**0.138**	**0.203**	0.091	0.134	22.8
	1513	1752.6	QPSK, 12,2 kbps	24.0	22.1	0.124	0.192	0.079	0.122	22.8
UMTS FDD V	4132	826.4	QPSK, 12,2 kbps	24.0	22.7	0.224	0.301	0.153	0.205	22.8
	4182	836.4	QPSK, 12,2 kbps	24.0	22.7	**0.230**	0.310	0.162	0.218	22.8
	4233	846.6	QPSK, 12,2 kbps	24.0	22.2	0.218	**0.331**	0.153	0.233	22.8
LTE FDD 2 20MHz BW	18700	1860.0	1RB, 99RB offset	24.0	22.9	0.103	0.133	0.063	0.082	22.8
	18900	1880.0	1RB, 99RB offset	24.0	23.0	**0.107**	0.133	0.066	0.082	22.8
	19100	1900.0	1RB, 99RB offset	24.0	22.9	**0.107**	**0.138**	0.066	0.085	22.8
	19100	1900.0	50RB, 50RB offset	23.0	22.2	0.091	0.109	0.055	0.066	22.8
LTE FDD 4 20MHz BW	20050	1720.0	1RB, 99RB offset	24.0	23.3	0.135	0.158	0.089	0.104	22.8
	20175	1732.5	1RB, 50RB offset	24.0	23.3	0.135	0.159	0.086	0.101	22.8
	20300	1745.0	1RB, 0RB offset	24.0	23.3	**0.136**	**0.159**	0.090	0.105	22.8
	20300	1745.0	50RB, 0RB offset	23.0	22.6	0.108	0.118	0.069	0.075	22.8

Frequency band	Ch.	Freq. (MHz)	test cond.	cond. P_{max} (dBm)		**SAR_{1g} (W/kg)**		SAR_{10g} (W/kg)		liquid (°C)
				declared*	meas.	meas.	extrap.	meas.	extrap.	
LTE FDD 5 10MHz BW	20450	829.0	1RB, 49RB offset	24.0	23.5	0.222	0.248	0.152	0.170	22.8
	20525	836.5	1RB, 49RB offset	24.0	23.5	0.225	0.253	0.154	0.173	22.8
	20600	844.0	1RB, 0RB offset	24.0	23.4	**0.230**	**0.263**	0.161	0.184	22.8
	20450	829.0	25RB, 25RB offset	23.0	22.6	0.185	0.205	0.126	0.139	22.8
LTE FDD 7 20MHz BW	20850	2510.0	1RB, 99RB offset	24.0	22.8	0.052	0.069	0.030	0.040	21.5
	21100	2535.0	1RB, 99RB offset	24.0	22.8	**0.061**	0.080	0.035	0.046	21.5
	21350	2560.0	1RB, 0RB offset	24.0	22.8	**0.061**	**0.081**	0.035	0.047	21.5
	20850	2510.0	50RB, 0RB offset	23.0	22.0	0.044	0.055	0.025	0.031	21.5
LTE FDD 12 10MHz BW	23060	704.0	1RB, 0RB offset	24.0	22.7	0.187	0.251	0.130	0.175	21.5
	23095	707.5	1RB, 0RB offset	24.0	22.6	0.194	**0.267**	0.138	0.190	21.5
	23130	711.0	1RB, 0RB offset	24.0	22.8	**0.196**	0.261	0.140	0.186	21.5
	23060	704.0	25RB, 0RB offset	23.0	21.8	0.151	0.200	0.105	0.139	21.5
LTE FDD 13 10MHz BW, [1)] 5MHz BW	23205[1]	779.5	1RB, 13RB offset	24.0	23.4	**0.248**	**0.282**	0.175	0.199	21.5
	23230	782.0	1RB, 49RB offset	24.0	23.7	0.239	0.257	0.165	0.177	21.5
	23255[1]	784.5	1RB, 24RB offset	24.0	23.6	0.246	0.270	0.173	0.190	21.5
	23230	782.0	25RB, 25RB offset	23.0	22.7	0.195	0.208	0.135	0.144	21.5
LTE FDD 14 10MHz BW, [2)] 5MHz BW	23305[2]	790.5	1RB, 0RB offset	24.0	23.4	0.252	**0.289**	0.178	0.204	21.5
	23330	793.0	1RB, 0RB offset	24.0	23.6	**0.253**	0.277	0.178	0.195	21.5
	23355[2]	795.5	1RB, 13RB offset	24.0	23.5	0.239	0.271	0.164	0.186	21.5
	23330	793.0	25RB, 25RB offset	23.0	22.5	0.188	0.210	0.130	0.146	21.5
LTE FDD 17 10MHz BW	23780	709.0	1RB, 0RB offset	24.0	22.6	0.192	0.265	0.136	0.188	21.5
	23790	710.0	1RB, 0RB offset	24.0	22.5	**0.194**	**0.275**	0.138	0.196	21.5
	23800	711.0	1RB, 0RB offset	24.0	22.7	0.193	0.263	0.137	0.187	21.5
	23790	710.0	25RB, 25RB offset	23.0	21.5	0.153	0.216	0.107	0.151	21.5
LTE FDD 25 20MHz BW	26140	1860.0	1RB, 50RB offset	24.0	23.0	0.098	0.125	0.060	0.076	22.8
	26365	1882.5	1RB, 99RB offset	24.0	23.0	0.105	0.133	0.066	0.083	22.8
	26590	1905.0	1RB, 0RB offset	24.0	22.9	**0.106**	**0.137**	0.066	0.085	22.8
	26140	1860.0	50RB, 0RB offset	23.0	22.2	0.075	0.091	0.046	0.056	22.8
LTE FDD 26 15MHz BW	26765	821.5	1RB, 74RB offset	24.0	23.3	0.221	0.259	0.152	0.178	22.8
	26865	831.5	1RB, 38RB offset	24.0	23.2	**0.232**	**0.278**	0.163	0.196	22.8
	26965	841.5	1RB, 0RB offset	24.0	23.4	0.225	0.260	0.154	0.178	22.8
	26765	821.5	36RB, 0RB offset	23.0	22.4	0.184	0.211	0.126	0.144	22.8
LTE TDD 41 20MHz BW	39750	2506.0	1RB, 50RB offset	24.0	22.9	0.033	0.042	0.019	0.024	21.5
	40620	2593.0	1RB, 0RB offset	24.0	23.0	0.034	0.043	0.019	0.024	21.5
	41490	2680.0	1RB, 99RB offset	24.0	23.2	**0.036**	**0.043**	0.020	0.024	21.5
	41490	2680.0	50RB, 0RB offset	23.0	22.0	0.029	0.037	0.017	0.022	21.5
LTE FDD 66 20MHz BW	132072	1720.0	1RB, 50RB offset	24.0	23.2	0.131	**0.157**	0.083	0.099	22.8
	132322	1745.0	1RB, 0RB offset	24.0	23.4	**0.136**	0.155	0.090	0.103	22.8
	132572	1770.0	1RB, 50RB offset	24.0	23.4	0.123	0.141	0.078	0.089	22.8
	132572	1770.0	50RB, 50RB offset	23.0	22.7	0.102	0.110	0.064	0.069	22.8
LTE FDD 71 20MHz BW	133222	673.0	1RB, 0RB offset	24.0	22.6	0.119	0.164	0.083	0.115	21.5
	133297	680.5	1RB, 0RB offset	24.0	22.7	0.142	0.191	0.099	0.133	21.5
	133372	688.0	1RB, 0RB offset	24.0	22.4	**0.166**	**0.238**	0.118	0.169	21.5
	133222	673.0	50RB, 50RB offset	23.0	21.8	0.142	0.189	0.099	0.132	21.5

Frequency band	Ch.	Freq. (MHz)	test cond.	cond. P_{max} (dBm)		**SAR_{1g} (W/kg)**		SAR_{10g} (W/kg)		liquid (°C)
				declared*	meas.	meas.	extrap.	meas.	extrap.	
5G FDD n2 20MHz BW SCS-15	372000	1860.0	RB_1_high-1, QPSK	24.0	23.3	0.039	0.046	0.023	0.027	22.4
	376000	1880.0	RB_1_low+1, QPSK	24.0	23.1	0.040	0.049	0.025	0.030	22.4
	380000	1900.0	RB_1_low+1, QPSK	24.0	23.0	0.040	0.050	0.023	0.029	22.4
	376000	1880.0	RB_50%_mid, BPSK	24.0	23.2	**0.042**	**0.050**	0.026	0.031	22.4
5G FDD n5 20MHz BW SCS-15	166800	834.0	RB_1_high-1, QPSK	24.0	23.1	0.185	0.227	0.127	0.156	22.4
	167300	836.5	RB_1_low+1, QPSK	24.0	23.1	**0.203**	**0.249**	0.132	0.162	22.4
	167800	839.0	RB_1_low+1, QPSK	24.0	23.2	0.189	0.230	0.129	0.157	22.4
	166800	834.0	RB_50%_mid, QPSK	24.0	23.2	0.189	0.226	0.130	0.156	22.4
5G TDD n41 100MHz BW SCS-30	509202	2546.0	RB_1_high, QPSK	24.0	22.2	0.007	0.010	0.004	0.006	22.6
	518598	2593.0	RB_1_high-1, QPSK	24.0	23.9	0.013	0.013	0.007	0.007	22.6
	528000	2640.0	RB_1_high, QPSK	24.0	24.0	0.011	0.011	0.006	0.006	22.6
	528000	2640.0	RB_50%_mid, QPSK	24.0	23.6	**0.015**	**0.016**	0.009	0.010	22.6
5G FDD n66 20MHz BW SCS-15	344000	1720.0	RB_1_high-1, QPSK	24.0	23.1	**0.052**	**0.064**	0.031	0.038	22.4
	349000	1745.0	RB_1_low+1, QPSK	24.0	23.1	0.043	0.053	0.027	0.033	22.4
	354000	1770.0	RB_1_low+1, QPSK	24.0	23.0	0.048	0.060	0.030	0.037	22.4
	354000	1770.0	RB_50%_mid, QPSK	24.0	23.2	0.045	0.055	0.028	0.034	22.4
5G FDD n71 20MHz BW SCS-15	134600	673.0	RB_1_low+1, QPSK	24.0	22.8	0.128	0.169	0.089	0.118	22.4
	136100	680.5	RB_1_low+1, QPSK	24.0	22.6	0.133	0.186	0.090	0.126	22.4
	137600	688.0	RB_1_low+1, QPSK	24.0	22.7	**0.150**	**0.203**	0.104	0.141	22.4
	134600	673.0	RB_50%_mid, BPSK	24.0	22.6	0.135	0.186	0.093	0.128	22.4
5G TDD n77 100MHz BW SCS-30	633332	3500.0	RB_1_high-1, QPSK	27.5	27.0	0.021	0.024	0.012	0.013	22.5
	640000	3600.0	RB_1_low+1, QPSK	27.5	27.0	**0.022**	**0.025**	0.012	0.013	22.5
	643332	3650.0	RB_1_high, BPSK	27.5	27.0	0.011	0.012	0.004	0.005	22.5
	650000	3750.0	RB_1_low+1, QPSK	27.5	26.9	0.016	0.018	0.007	0.008	22.5
	650000	3750.0	RB_50%_mid, BPSK	27.5	26.7	0.017	0.021	0.008	0.010	22.5
5G TDD n78 100MHz BW SCS-30	623334	3350.0	RB_1_high, BPSK	27.5	26.0	0.017	0.024	0.008	0.011	22.5
	625566	3383.5	RB_1_high-1, QPSK	27.5	26.3	0.023	**0.030**	0.012	0.016	22.5
	627800	3417.0	RB_1_low+1, BPSK	27.5	26.2	0.015	0.020	0.005	0.007	22.5
	636700	3550.5	RB_1_low+1, QPSK	27.5	27.3	**0.026**	0.027	0.013	0.014	22.5
	645600	3684.0	RB_1_low+1, QPSK	27.5	26.9	0.019	0.022	0.009	0.010	22.5
	647800	3717.0	RB_1_low+1, BPSK	27.5	26.8	0.015	0.018	0.007	0.008	22.5
	650000	3750.0	RB_1_low+1, QPSK	27.5	26.9	0.024	0.028	0.007	0.008	22.5
	636700	3550.5	RB_50%_mid, BPSK	27.5	27.0	0.021	0.024	0.011	0.012	22.5

Table 36: SAR test results back side with 16 mm distance (see max. SAR plot inAnnex B: DASY measurement results)

8.3.3 SAR correction for deviations of complex permittivity from targets

The max reported SAR values are once more corrected wherever the deviation of the liquid parameters is larger than ± 5%.

According IEC / IEEE 62209-1528 chapter 7.8.2 SAR correction formula
there is a linear relationship between the percentage change in SAR (denoted ΔSAR) and the percentage change in the permittivity and conductivity from the target values (denoted $\Delta\varepsilon_r$ and Δσ, respectively).
The relationship is given by:

$$\Delta SAR = c_\varepsilon \Delta\varepsilon_r + c_\sigma \Delta\sigma$$

where
$c_\varepsilon = \partial(\Delta SAR)\ \partial(\Delta\varepsilon)$ is the coefficient representing the sensitivity of SAR to permittivity where SAR is normalized to output power;
$c_\sigma = \partial(\Delta SAR)\ \partial(\Delta\sigma)$ is the coefficient representing the sensitivity of SAR to conductivity, where SAR is normalized to output power.

The values of c_ε and c_σ have a simple relationship with frequency that can be described using polynomial equations. For dipole antennas at frequencies from 4 MHz to 6 GHz, the **1 g averaged SAR** c_ε and c_σ are given by

$$c_\varepsilon = -7.854\times10^{-4} \times f^3 + 9.402\times10^{-3} \times f^2 - 2.742\times10^{-2} \times f - 0.2026$$
$$c_\sigma = 9.804\times10^{-3} \times f^3 - 8.661\times10^{-2} \times f^2 + 2.981\times10^{-2} \times f + 0.7829$$

where f is the frequency in GHz. Above 6 GHz, the sensitivity is non-varying with frequency due to the small penetration depth; the values of $c_\varepsilon = -0{,}198$ and $c_\sigma = 0$ shall be used.

For frequencies from 4 MHz to 6 GHz, the **10 g averaged SAR** c_ε and c_σ are given by:

$$c_\varepsilon = 3.456\times10^{-3} \times f^3 - 3.531\times10^{-2} \times f^2 + 7.675\times10^{-2} \times f - 0.1860$$
$$c_\sigma = 4.479\times10^{-3} \times f^3 - 1.586\times10^{-2} \times f^2 - 0.197\,2 \times f + 0.7717$$

where f is the frequency in GHz. Above 6 GHz, the sensitivity is non-varying with frequency due to the small penetration depth; the values of $c_\varepsilon = -0{,}250$ and $c_\sigma = 0$ shall be used.

NOTE:
The Tables in the uncertainties of this report are updated accordingly with the values from table 6 – Root-mean-squared error SAR correction formula as a function of the maximum change in permittivity or conductivity:

Max. change in ε_r or σ	RMS uncertainty for SAR_{1g} %	RMS uncertainty for SAR_{10g} %
±5 %	1,2	0,97
±10 %	1,9	1,6

NOTE:
The DASY software is capable of directly correcting the measured values according to the above-described procedure, fully compliant to IEC / IEEE 62209-1528, so that no further evaluation is necessary.

9 Test equipment and ancillaries used for tests

To simplify the identification of the test equipment and/or ancillaries which were used, the reporting of the relevant test cases only refer to the test item number as specified in the table below.

Equipment	Type	Manufacturer	Serial No.	Last Calibration	Frequency (months)
Dosimetric E-Field Probe	EX3DV4	Schmid & Partner Engineering AG	3944	May 21, 2024	12
Dosimetric E-Field Probe	EX3DV4		7852	November 08, 2023	12
750 MHz System Validation Dipole	D750V3	Schmid & Partner Engineering AG	1041	May 11, 2023	36
835 MHz System Validation Dipole	D835V2	Schmid & Partner Engineering AG	4d153	May 11, 2023	36
1750 MHz System Validation Dipole	D1750V2	Schmid & Partner Engineering AG	1093	May 14, 2024	36
1800 MHz System Validation Dipole	D1800V2	Schmid & Partner Engineering AG	291	May 10, 2022	36
1900 MHz System Validation Dipole	D1900V2	Schmid & Partner Engineering AG	5d009	May 12, 2023	36
2600 MHz System Validation Dipole	D2600V2	Schmid & Partner Engineering AG	1040	May 11, 2023	36
3500 MHz System Validation Dipole	D3500V2	Schmid & Partner Engineering AG	1003	August 19, 2022	36
3700 MHz System Validation Dipole	D3700V2	Schmid & Partner Engineering AG	1062	August 19, 2022	36
Data acquisition electronics	DAE3	Schmid & Partner Engineering AG	413	January 15, 2024	12
Data acquisition electronics	DAE4		477	May 22, 2024	12
Software	cDASY6 V16.2.4.2524	Schmid & Partner Engineering AG	---	N/A	--
Phantom ELI 8.0	QD OVA 004 AA	Schmid & Partner Engineering AG	2101	N/A	--
Universal Radio Communication Tester	CMW500	Rohde & Schwarz	166977	December 13, 2023	24
5G Wireless Test Platform	MT8000A	Anritsu	6262186399	May 06, 2022	24
Network Analyser 300 kHz to 6 GHz	8753ES	Agilent Technologies)*	US39174436	December 14, 2023	24
Dielectric Assessment Kit (DAK)	DAK 200MHz – 20GHz Package	Schmid & Partner Engineering AG	1127	N/A	--
Powersource1	SE UMS 160 CC	Schmid & Partner Engineering AG	4342	May 15, 2024	24
Signal Generator	8671B	Hewlett Packard	2823A00656	December 09, 2022	24
Signal Generator	SML03	Rohde & Schwarz	102519	December 05, 2023	24
RF Power Amplifier	BLMA 0760-6 (6 Watt)	BONN Elektronik	1510273	N/A	--
Power Meter	NRP	Rohde & Schwarz	101367	December 05, 2023	12
Power Meter Sensor	NRP Z22	Rohde & Schwarz	100227	December 05, 2023	12
Power Meter Sensor	NRP Z22	Rohde & Schwarz	100234	December 05, 2023	12
Directional Coupler	778D	Hewlett Packard	19171	December 05, 2023	12

)* : Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.

10 Observations

No observations exceeding those reported with the single test cases have been made.

Annex A: System performance check

System performance checks can be found in the additional document:
1-7811-24-01-03_TR1-A501-R01_DASY measurements results

Annex B: DASY measurement results

DASY SAR results can be found in the additional document:
1-7811-24-01-03_TR1-A401-R01_DASY measurements results

Annex C: Photo documentation

Photo documentation is described in the additional document:
1-7811-24-01-03_TR1-A101-R01_Photos

Annex D: Calibration parameters

Calibration parameters are described in the additional document:
1-7811-24-01-03_TR1-A201-R01_Caldata

Annex E: RSS-102 Annex A

ISEDRF documents are described in the additional document:
1-7811-24-01-03_TR1-A301-R01_ISED - RSS-102 Annex A

Annex F: Document History

Version	Applied Changes	Date of Release
	Initial Release	2024-07-02
-R02	Changed HVIN and removed HMN on the page 1	2024-11-15
-R03	Updated Tune-Up Info for Chapter 8.2.1	2025-04-10

Annex G: Further Information

Glossary

BW	-	Bandwidth
DTS	-	Distributed Transmission System
DUT	-	Device under Test
EUT	-	Equipment under Test
FCC	-	Federal Communication Commission
FCC ID	-	Company Identifier at FCC
HW	-	Hardware
ISED	-	Innovation, Science and Economic Development Canada
LTE	-	Long Term Evolution
N/A	-	not applicable
PCB	-	PCS Licensed Transmitter
PCE	-	Personal Consumption Expenditure (PCS Licensed Transmitter held to ear)
PCS	-	Personal Consumption Services
OET	-	Office of Engineering and Technology
RB	-	resource block(s)
SAR	-	Specific Absorption Rate
S/N	-	Serial Number
SW	-	Software