

P48 GSM1900_GPRS 1Tx Slot_Top Side_0cm_Ch512

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	170.0 x 78.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	EDGE TOP, 0.00	PCS 1900	GSM, -	1850.200, 512	8.25	1.36	40.9

Hardware Setup

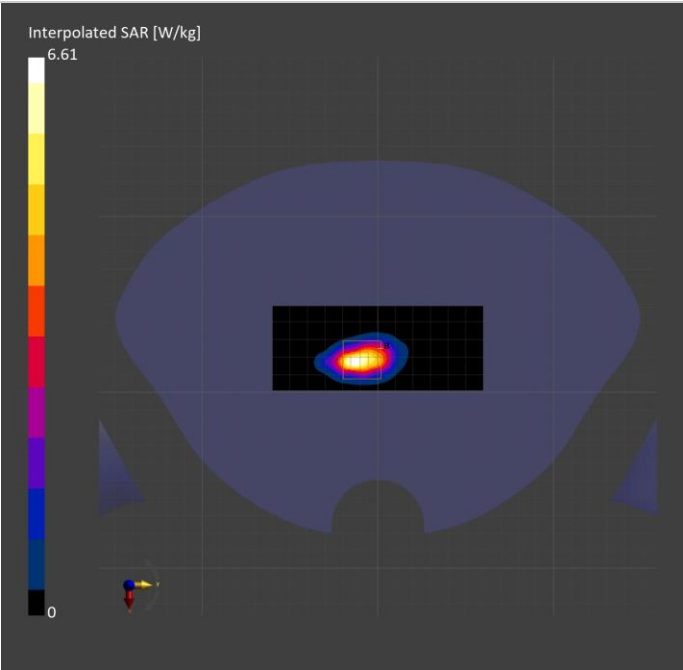
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL1950-2025-04-22	EX3DV4 - SN7801, 2025-03-11	DAE4 Sn1778, 2025-02-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-22	2025-04-22
psSAR1g [W/kg]	4.71	4.81
psSAR10g [W/kg]	2.01	1.95
Power Drift [dB]	-0.03	-0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		71.8
Dist 3dB Peak [mm]		4.9



P49 WCDMA II_RMC12.2K_Top Side_0cm_Ch9262

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	170.0 x 78.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	EDGE TOP, 0.00	Band 2	WCDMA, -	1852.400, 9262	8.25	1.36	40.9

Hardware Setup

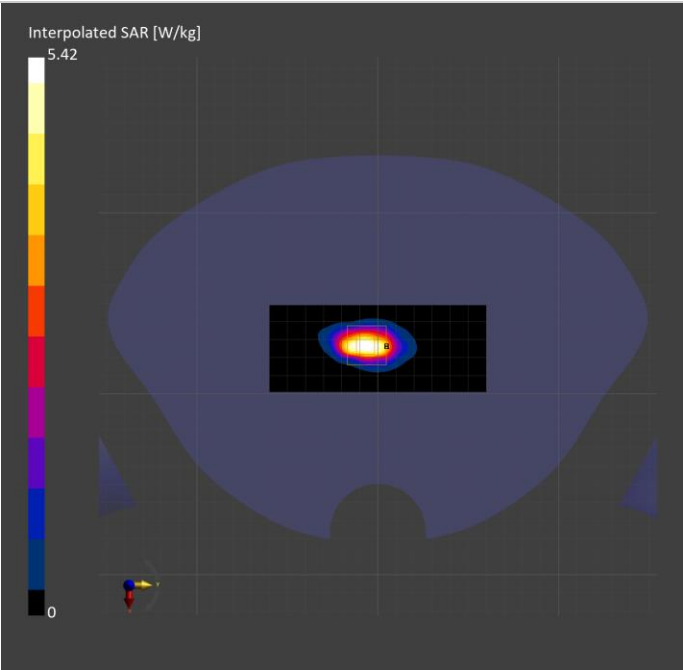
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL1950-2025-04-22	EX3DV4 - SN7801, 2025-03-11	DAE4 Sn1778, 2025-02-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-22	2025-04-22
psSAR1g [W/kg]	4.16	4.17
psSAR10g [W/kg]	1.79	1.66
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		73.2
Dist 3dB Peak [mm]		4.8



P50 WCDMA IV_RMC12.2K_Top Side_0cm_Ch1312

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	170.0 x 78.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	EDGE TOP, 0.00	Band 4	WCDMA, -	1712.400, 1312	8.6	1.32	41.5

Hardware Setup

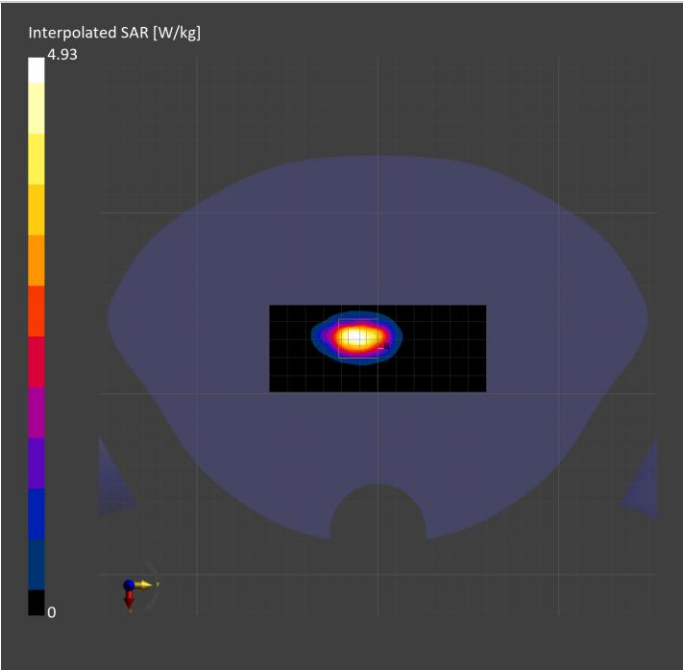
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL1750-2025-04-23	EX3DV4 - SN7801, 2025-03-11	DAE4 Sn1778, 2025-02-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-23	2025-04-23
psSAR1g [W/kg]	3.76	3.88
psSAR10g [W/kg]	1.66	1.56
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		70.5
Dist 3dB Peak [mm]		4.9



P51 LTE B2_QPSK20M_Top Side_0cm_Ch18700_50RB_OS25

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	170.0 x 78.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	EDGE TOP, 0.00	Band 2	LTE-FDD, -	1860.000, 18700	8.25	1.37	40.8

Hardware Setup

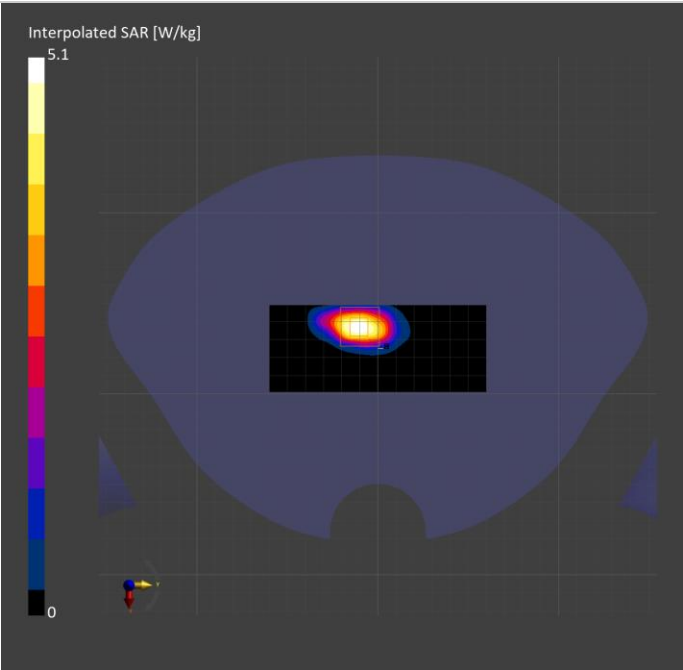
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL1950-2025-04-22	EX3DV4 - SN7801, 2025-03-11	DAE4 Sn1778, 2025-02-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-22	2025-04-22
psSAR1g [W/kg]	3.95	4.48
psSAR10g [W/kg]	1.83	1.82
Power Drift [dB]	-0.01	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		72.1
Dist 3dB Peak [mm]		5.1



P52 LTE B7_QPSK20M_Rear Face_0cm_Ch20850_50RB_OS25

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	170.0 x 78.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	BACK, 0.00	Band 7	LTE-FDD, -	2510.000, 20850	7.57	1.88	37.8

Hardware Setup

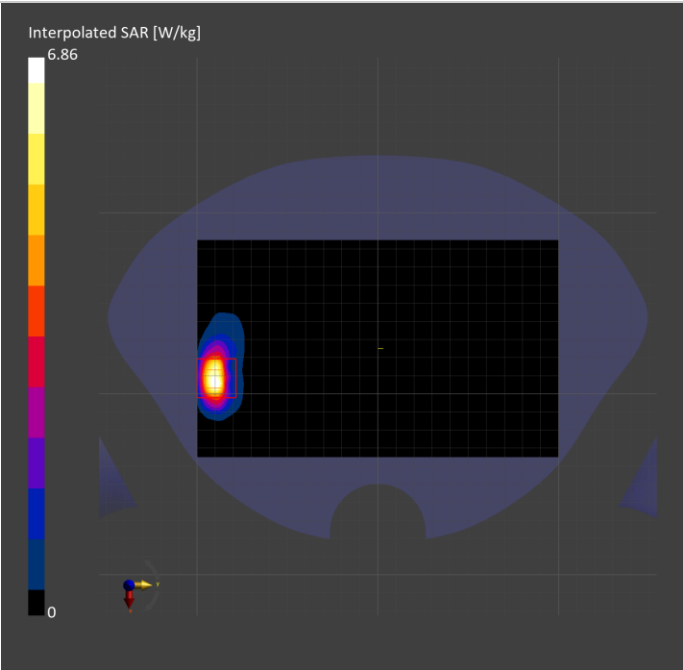
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL2550-2025-04-24	EX3DV4 - SN7801, 2025-03-11	DAE4 Sn1778, 2025-02-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-24	2025-04-24
psSAR1g [W/kg]	4.78	4.26
psSAR10g [W/kg]	1.83	1.59
Power Drift [dB]	-0.00	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		68.3
Dist 3dB Peak [mm]		4.1



P53 LTE B41_QPSK20M_Rear Face_0cm_Ch39750_50RB_OS25

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	170.0 x 78.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	BACK, 0.00	Band 41	LTE-TDD, -	2506.000, 39750	7.57	1.88	37.8

Hardware Setup

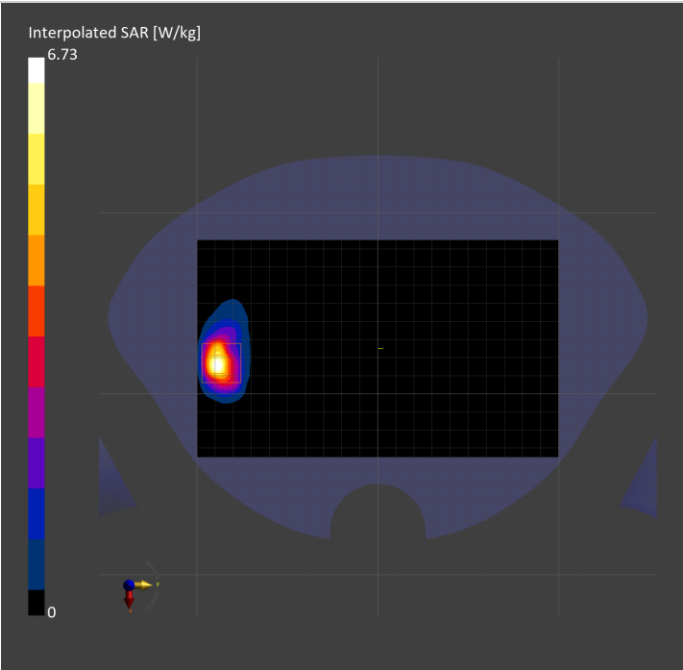
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL2550-2025-04-24	EX3DV4 - SN7801, 2025-03-11	DAE4 Sn1778, 2025-02-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-24	2025-04-24
psSAR1g [W/kg]	4.58	5.34
psSAR10g [W/kg]	1.85	1.73
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		66.3
Dist 3dB Peak [mm]		4.9



P54 LTE B66_QPSK20M_Bottom Side_0cm_Ch132572_100RB_OS0

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	170.0 x 78.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	EDGE BOTTOM, 0.00	Band 66	LTE-FDD, -	1770.000, 132572	8.6	1.35	41.4

Hardware Setup

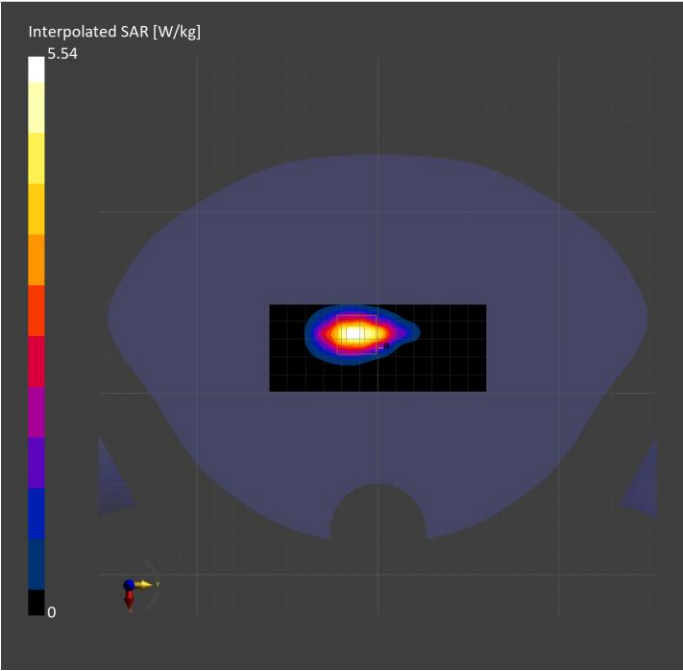
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL1750-2025-04-23	EX3DV4 - SN7801, 2025-03-11	DAE4 Sn1778, 2025-02-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-23	2025-04-23
psSAR1g [W/kg]	4.22	4.22
psSAR10g [W/kg]	1.97	1.93
Power Drift [dB]	-0.01	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		72.3
Dist 3dB Peak [mm]		6.9



P55 WLAN5G_802.11a_Top Side_0cm_Ch60

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	170.0 x 78.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	EDGE TOP, 0.00	WLAN 5GHz	WLAN, -	5300.000, 60	5.18	4.65	36.2

Hardware Setup

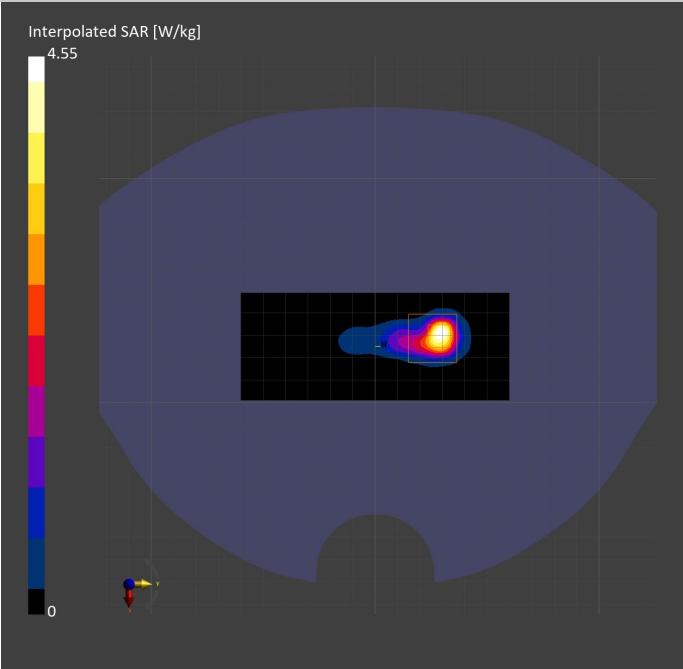
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL5G-2025-04-29	EX3DV4 - SN7801, 2025-03-11	DAE4 Sn1778, 2025-02-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-29	2025-04-29
psSAR1g [W/kg]	2.73	2.62
psSAR10g [W/kg]	0.737	0.640
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		66.0
Dist 3dB Peak [mm]		5.4



P56 WLAN5G_802.11a_Top Side_0cm_Ch100

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	170.0 x 78.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	EDGE TOP, 0.00	WLAN 5GHz	WLAN, -	5500.000, 100	4.65	4.88	35.8

Hardware Setup

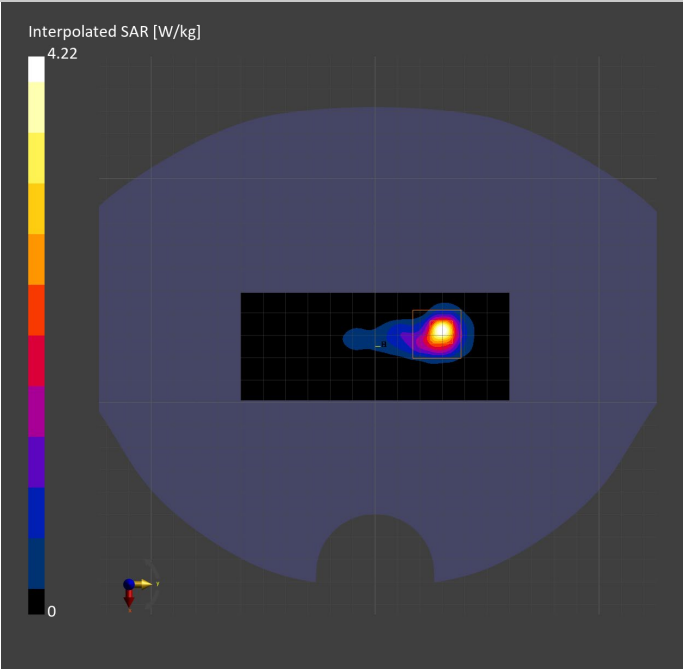
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2135	HSL5G-2025-04-29	EX3DV4 - SN7801, 2025-03-11	DAE4 Sn1778, 2025-02-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-29	2025-04-29
psSAR1g [W/kg]	2.35	2.53
psSAR10g [W/kg]	0.610	0.611
Power Drift [dB]	-0.63	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.4
Dist 3dB Peak [mm]		5.4





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Appendix C. Calibration Certificate for Probe and Dipole

The SPEAG calibration certificates are shown as follows.

Client : **7layers**

Certificate No: **25J02Z000064**

CALIBRATION CERTIFICATE

Object **DAE4 - SN: 1778**

Calibration Procedure(s) **FF-Z11-002-01**
Calibration Procedure for the Data Acquisition Electronics (DAEx)

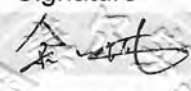
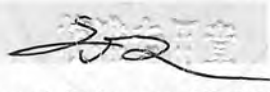
Calibration date: **February 17, 2025**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22 ± 3) $^{\circ}\text{C}$ and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Process Calibrator 753	1971018	11-Jun-24 (CTTL, No.24J02X005147)	Jun-25

	Name	Function	Signature
Calibrated by:	Yu Zongying	SAR Test Engineer	
Reviewed by:	Lin Jun	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: February 17, 2025

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Glossary:

DAE data acquisition electronics
Connector angle information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters:

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The report provide only calibration results for DAE, it does not contain other performance test results.



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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 μ V, full range = -100...+300 mV

Low Range: 1LSB = 61nV, full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	404.935 $\pm$ 0.15% (k=2)	405.058 $\pm$ 0.15% (k=2)	404.771 $\pm$ 0.15% (k=2)
Low Range	3.98053 $\pm$ 0.7% (k=2)	4.01510 $\pm$ 0.7% (k=2)	3.95727 $\pm$ 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	24° $\pm$ 1 °
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Client **7layers**

Certificate No: **25J02Z000065**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN : 7801**

Calibration Procedure(s) **FF-Z11-004-02**
Calibration Procedures for Dosimetric E-field Probes

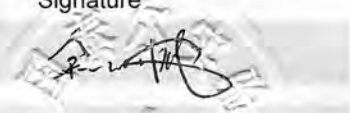
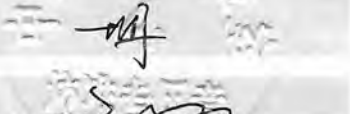
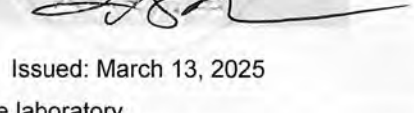
Calibration date: **March 11, 2025**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	18-Oct-24(CTTL, No.24J02X101459)	Oct-25
Power sensor NRP8S	104291	18-Oct-24(CTTL, No.24J02X101459)	Oct-25
Power sensor NRP8S	104292	18-Oct-24(CTTL, No.24J02X101459)	Oct-25
Reference 10dBAttenuator	18N50W-10dB	22-Jan-25(CTTL, No.25J02X000465)	Jan-27
Reference 20dBAttenuator	18N50W-20dB	22-Jan-25(CTTL, No.25J02X000466)	Jan-27
Reference Probe EX3DV4	SN 7307	28-May-24(SPEAG, No.EX-7307_May24)	May-25
DAE4	SN 1555	16-Aug-24(SPEAG, No.DAE4-1555_Aug24)	Aug-25
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
SignalGenerator MG3700A	6201052605	12-Jun-24(CTTL, No.24J02X005419)	Jun-25
SignalGenerator APSIN26G	181-33A6D0700-1959	26-Mar-24(CTTL, No.24J02X002468)	Mar-25
Network Analyzer E5071C	MY46110673	18-Dec-24(CTTL, No.24J02X103932)	Dec-25
Reference 10dBAttenuator	BT0520	11-May-23(CTTL, No.J23X04061)	May-25
Reference 20dBAttenuator	BT0267	11-May-23(CTTL, No.J23X04062)	May-25
OCP DAKS	SN 0015	09-Oct-24(SPEAG, No. OCP-DAKS-0015_Oct24)	Oct-25

	Name	Function	Signature
Calibrated by:	Yu Zongying	SAR Test Engineer	
Reviewed by:	Lin Jun	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: March 13, 2025

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Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A,B,C,D	modulation dependent linearization parameters
Polarization Φ	Φ rotation around probe axis
Polarization θ	θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i $\theta=0$ is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}:** Assessed for E-field polarization $\theta=0$ ($f \leq 900\text{MHz}$ in TEM-cell; $f > 1800\text{MHz}$: waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not effect the E^2 -field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z} = NORM_{x,y,z} * frequency_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}:** DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR:** PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; VR_{x,y,z}:** A,B,C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters:** Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800\text{MHz}$) and inside waveguide using analytical field distributions based on power measurements for $f > 800\text{MHz}$. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from $\pm 50\text{MHz}$ to $\pm 100\text{MHz}$.
- Spherical isotropy (3D deviation from isotropy):** in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset:** The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle:** The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).



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DASY/EASY – Parameters of Probe: EX3DV4 – SN:7801

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.63	0.67	0.65	±10.0%
DCP(mV) ^B	114.7	110.3	112.5	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	214.6	±2.3%
		Y	0.0	0.0	1.0		219.4	
		Z	0.0	0.0	1.0		216.3	

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X, Y, Z do not affect the E²-field uncertainty inside TSL (see Page 4).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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DASY/EASY – Parameters of Probe: EX3DV4 – SN:7801

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	41.9	0.89	10.21	10.21	10.21	0.25	0.92	± 12.7%
835	41.5	0.90	9.75	9.75	9.75	0.16	1.27	± 12.7%
900	41.5	0.97	9.75	9.75	9.75	0.14	1.42	± 12.7%
1750	40.1	1.37	8.60	8.60	8.60	0.24	1.00	± 12.7%
1900	40.0	1.40	8.25	8.25	8.25	0.27	0.96	± 12.7%
2100	39.8	1.49	8.23	8.23	8.23	0.17	1.33	± 12.7%
2300	39.5	1.67	7.96	7.96	7.96	0.54	0.70	± 12.7%
2450	39.2	1.80	7.70	7.70	7.70	0.57	0.71	± 12.7%
2600	39.0	1.96	7.57	7.57	7.57	0.67	0.67	± 12.7%
5250	35.9	4.71	5.18	5.18	5.18	0.40	1.58	± 13.9%
5600	35.5	5.07	4.65	4.65	4.65	0.40	1.65	± 13.9%
5750	35.4	5.22	4.76	4.76	4.76	0.40	1.65	± 13.9%

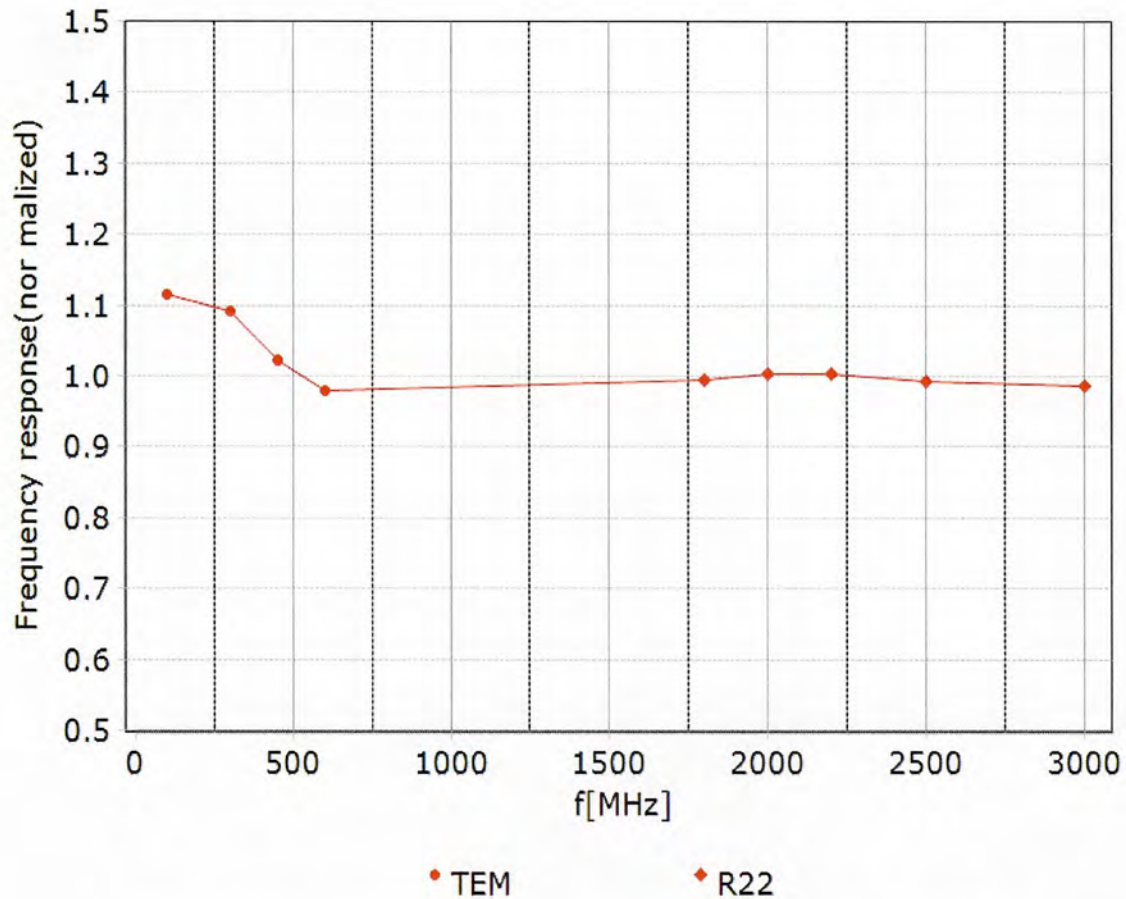
^C Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequency up to 6 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)

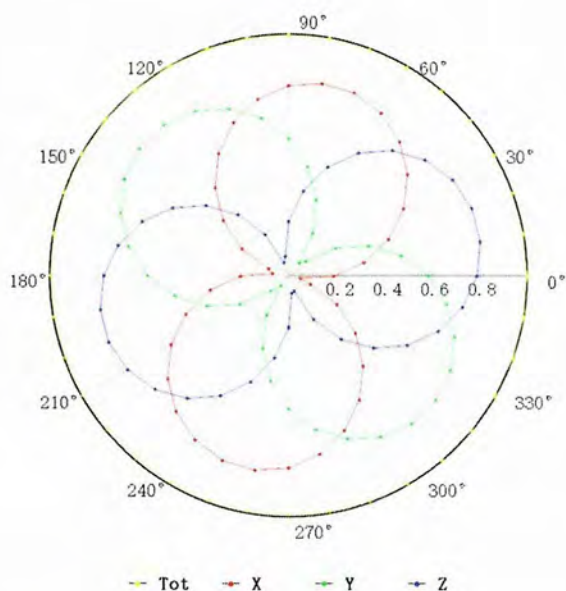


Uncertainty of Frequency Response of E-field: $\pm 7.4\%$ ($k=2$)

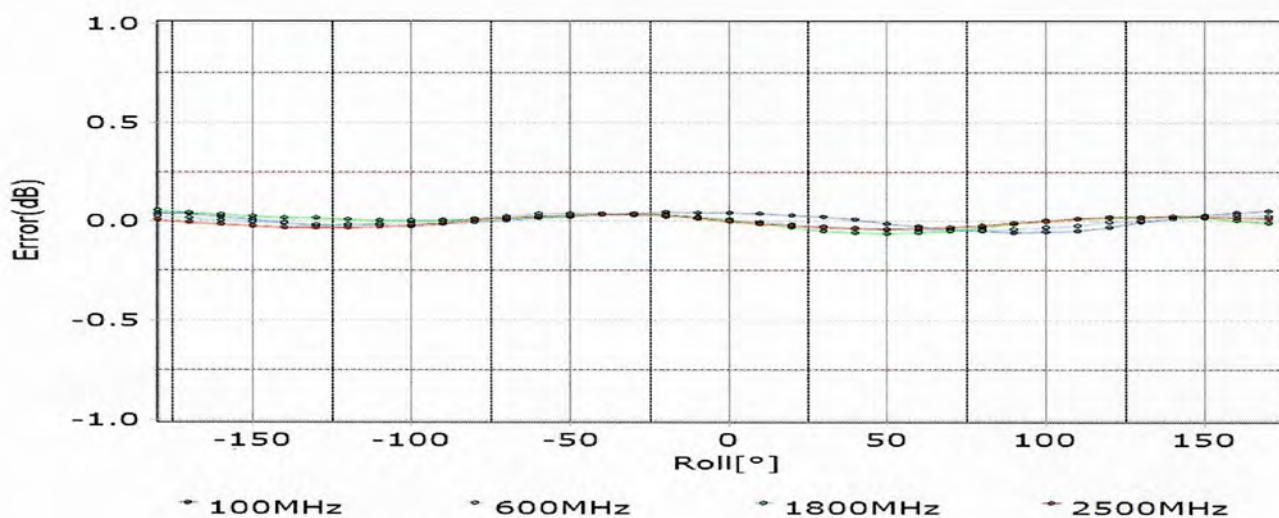
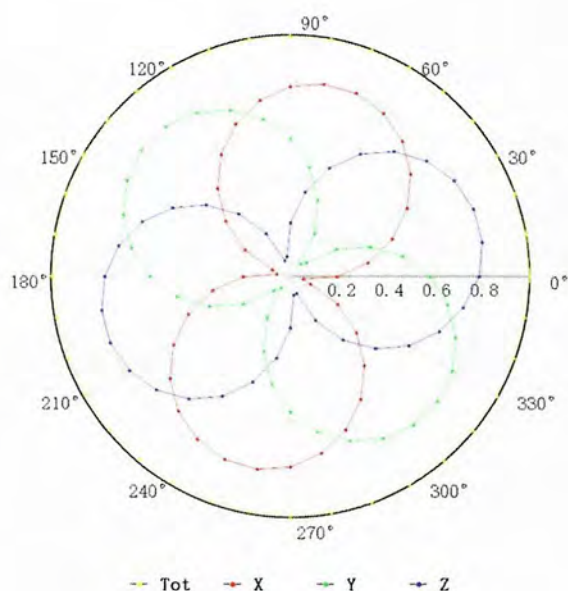
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Receiving Pattern (Φ), $\theta=0^\circ$

f=600 MHz, TEM



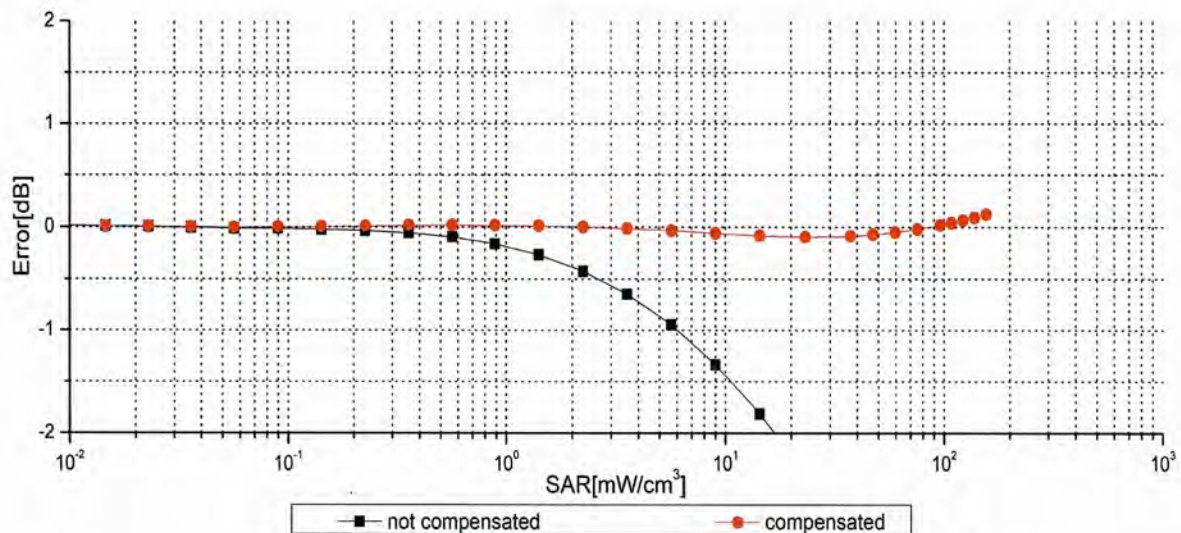
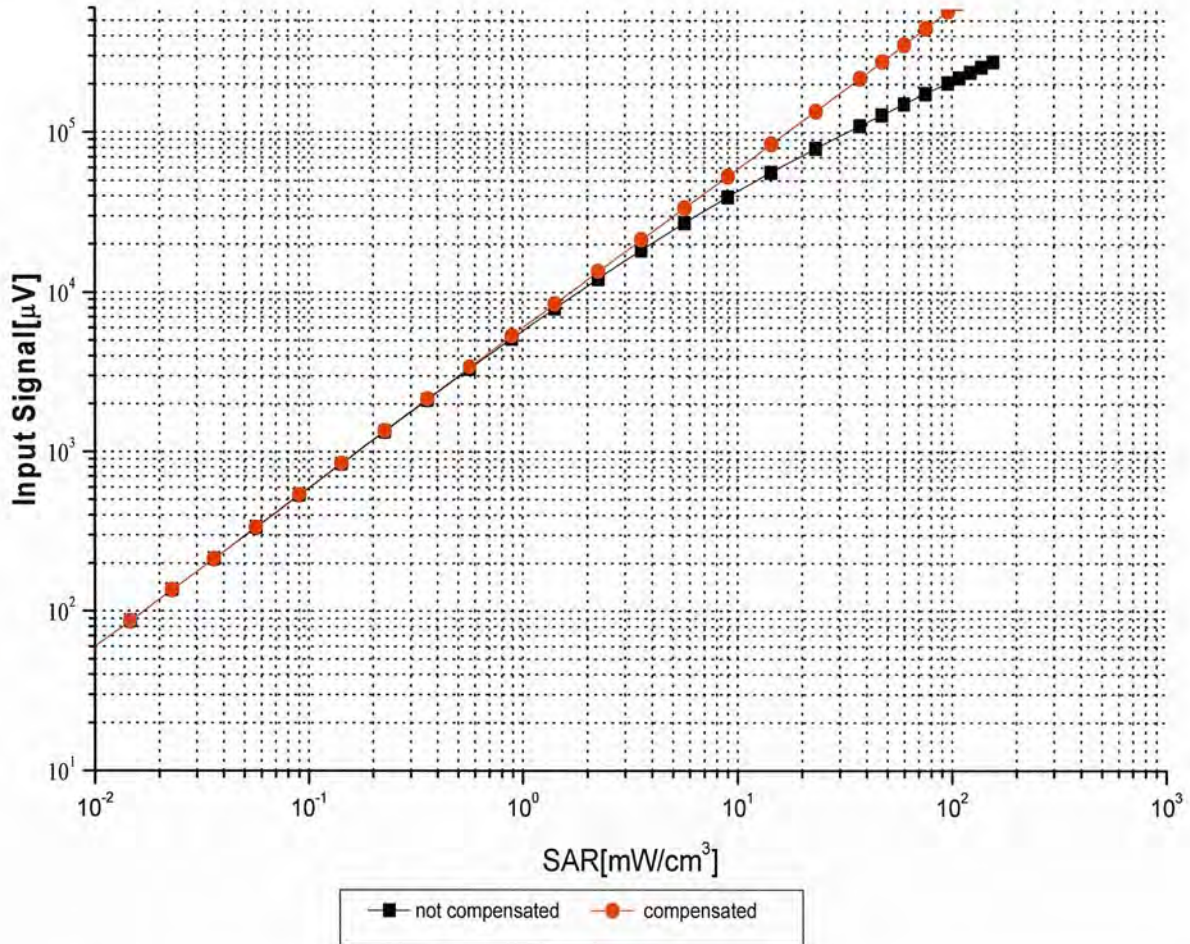
f=1800 MHz, R22



Uncertainty of Axial Isotropy Assessment: $\pm 1.2\%$ ($k=2$)

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Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f = 900 \text{ MHz}$)



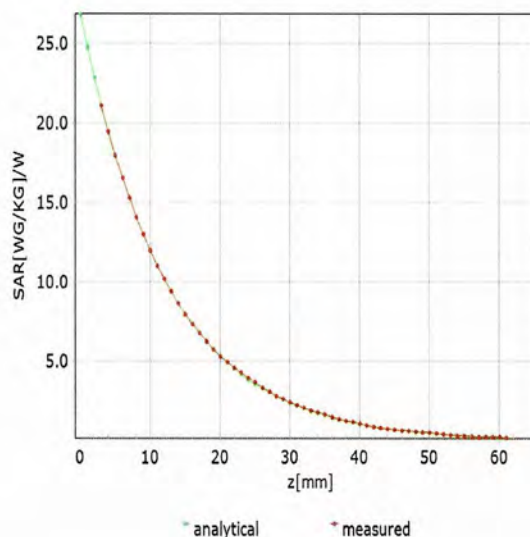
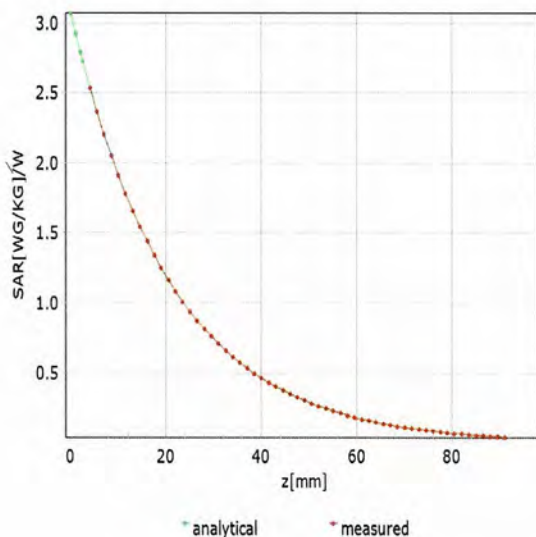
Uncertainty of Linearity Assessment: $\pm 0.9\%$ ($k=2$)

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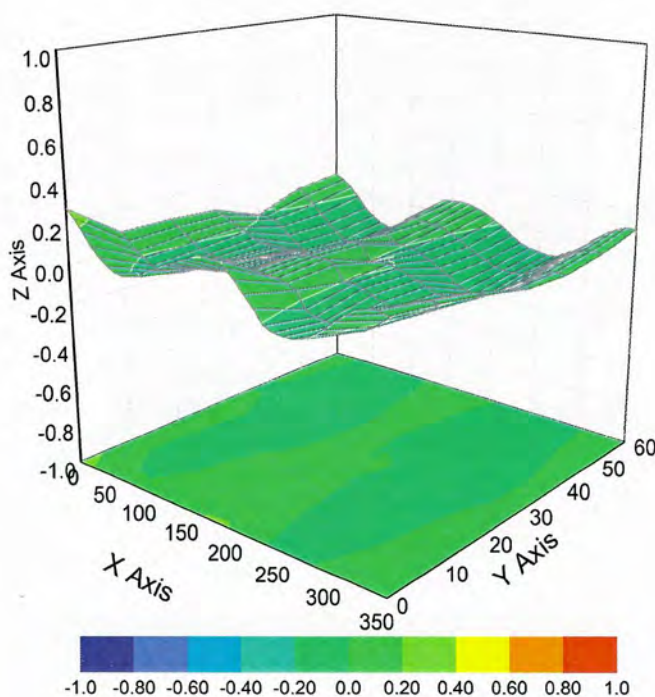
Conversion Factor Assessment

f=750 MHz,WGLS R9(H_convF)

f=1750 MHz,WGLS R22(H_convF)



Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment: $\pm 3.2\%$ ($k=2$)



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DASY/EASY – Parameters of Probe: EX3DV4 – SN:7801

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	90.1
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
Tip Diameter	2.5mm
Probe Tip to Sensor X Calibration Point	1mm
Probe Tip to Sensor Y Calibration Point	1mm
Probe Tip to Sensor Z Calibration Point	1mm
Recommended Measurement Distance from Surface	1.4mm

Client: 7layers

Certificate No: 24J02Z000853

CALIBRATION CERTIFICATE

Object D750V3 - SN: 1200

Calibration Procedure(s) FF-Z11-003-01
Calibration Procedures for dipole validation kits

Calibration date: November 7, 2024

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

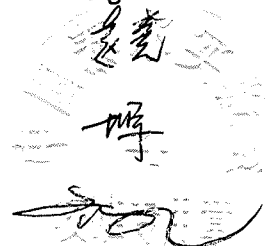
All calibrations have been conducted in the closed laboratory facility: environment temperature $(22\pm3)^{\circ}\text{C}$ and humidity $<70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106276	17-May-24 (CTTL, No. J24X04107)	May-25
Power sensor NRP6A	101369	17-May-24 (CTTL, No. J24X04107)	May-25
Reference Probe EX3DV4	SN 7517	21-Feb-24(CTTL-SPEAG, No. 24J02Z80008)	Feb-25
DAE4	SN 1588	13-Sep-24(CTTL-SPEAG, No. 24J02Z000713)	Sep-25
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	25-Dec-23 (CTTL, No. J23X13426)	Dec-24
NetworkAnalyzer E5071C	MY46110673	25-Dec-23 (CTTL, No. J23X13425)	Dec-24
OCP DAK-3.5(weighted)	1040	22-Jan-24(SPEAG, No.OCP-DAK3.5-1040_Jan24)	Jan-25

	Name	Function
Calibrated by:	Zhao Jing	SAR Test Engineer
Reviewed by:	Lin Jun	SAR Test Engineer
Approved by:	Qi Dianyuan	SAR Project Leader

Signature



Issued: November 15, 2024

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Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM _{x,y,z}
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "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)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- c) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



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<http://www.caict.ac.cn>**Measurement Conditions**

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	41.7 $\pm$ 6 %	0.90 mho/m $\pm$ 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.13 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.42 W/kg $\pm$ 18.8 % (k=2)
SAR averaged over 10 cm³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.40 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.55 W/kg $\pm$ 18.7 % (k=2)



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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.5Ω- 5.04jΩ
Return Loss	- 25.2dB

General Antenna Parameters and Design

Electrical Delay (one direction)	0.939 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 2024-11-07

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1200

Communication System: UID 0, CW; Frequency: 750 MHz

Medium parameters used: $f = 750$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 41.65$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(9.85, 9.85, 9.85) @ 750 MHz; Calibrated: 2024-02-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1588; Calibrated: 2024-09-13
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.97 V/m; Power Drift = -0.01 dB

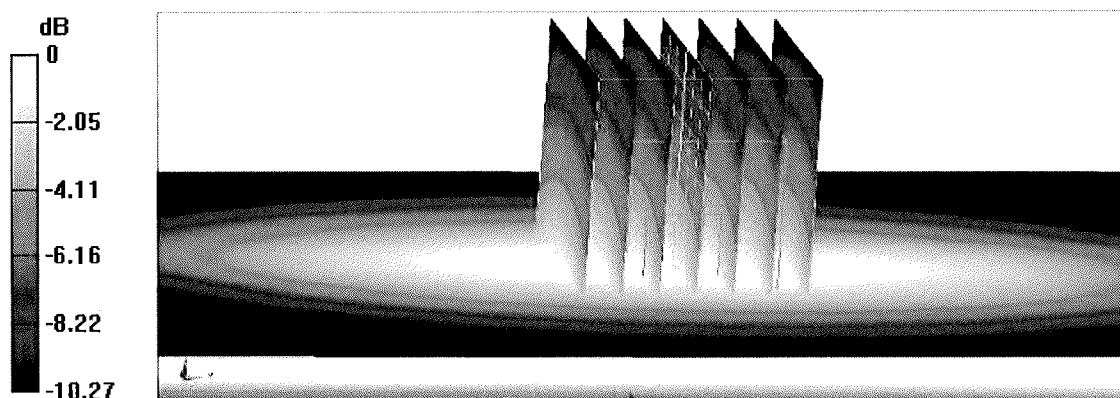
Peak SAR (extrapolated) = 3.39 W/kg

SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.4 W/kg

Smallest distance from peaks to all points 3 dB below = 17 mm

Ratio of SAR at M2 to SAR at M1 = 63.5%

Maximum value of SAR (measured) = 2.92 W/kg



0 dB = 2.92 W/kg = 4.65 dBW/kg



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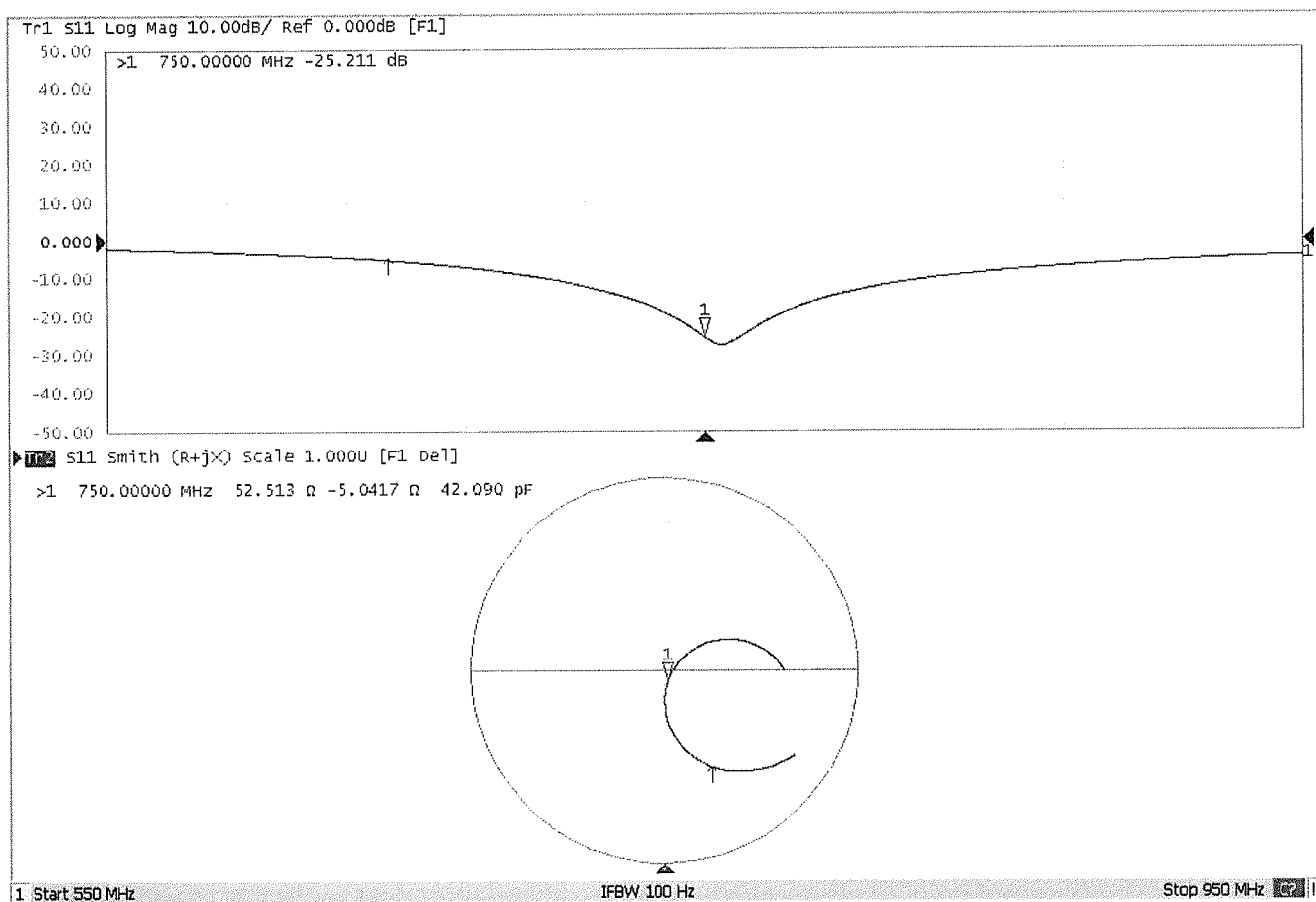
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Impedance Measurement Plot for Head TSL



Client **7layers**

Certificate No: **24J02Z000854**

CALIBRATION CERTIFICATE

Object D835V2 - SN: 4d265

Calibration Procedure(s) FF-Z11-003-01
Calibration Procedures for dipole validation kits

Calibration date: November 4, 2024

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106276	17-May-24 (CTTL, No. J24X04107)	May-25
Power sensor NRP6A	101369	17-May-24 (CTTL, No. J24X04107)	May-25
Reference Probe EX3DV4	SN 7517	21-Feb-24(CTTL-SPEAG, No. 24J02Z80008)	Feb-25
DAE4	SN 1588	13-Sep-24(CTTL-SPEAG, No. 24J02Z000713)	Sep-25
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	25-Dec-23 (CTTL, No. J23X13426)	Dec-24
NetworkAnalyzer E5071C	MY46110673	25-Dec-23 (CTTL, No. J23X13425)	Dec-24
OCP DAK-3.5(weighted)	1040	22-Jan-24(SPEAG, No.OCP-DAK3.5-1040_Jan24)	Jan-25

	Name	Function
Calibrated by:	Zhao Jing	SAR Test Engineer
Reviewed by:	Lin Jun	SAR Test Engineer
Approved by:	Qi Dianyuan	SAR Project Leader

Signature



Issued: November 15, 2024

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Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM _{x,y,z}
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "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)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- c) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	41.6 $\pm$ 6 %	0.92 mho/m $\pm$ 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.44W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.63 W/kg $\pm$ 18.8 % (k=2)
SAR averaged over 10 cm³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.60 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	6.33 W/kg $\pm$ 18.7 % (k=2)



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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	48.4Ω- 1.88jΩ
Return Loss	- 32.1dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.304 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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http://www.caict.ac.cn

DASY5 Validation Report for Head TSL

Date: 2024-11-04

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d265

Communication System: UID 0, CW; Frequency: 835 MHz

Medium parameters used: $f = 835$ MHz; $\sigma = 0.916$ S/m; $\epsilon_r = 41.57$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(9.85, 9.85, 9.85) @ 835 MHz; Calibrated: 2024-02-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1588; Calibrated: 2024-09-13
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 58.33 V/m; Power Drift = -0.01 dB

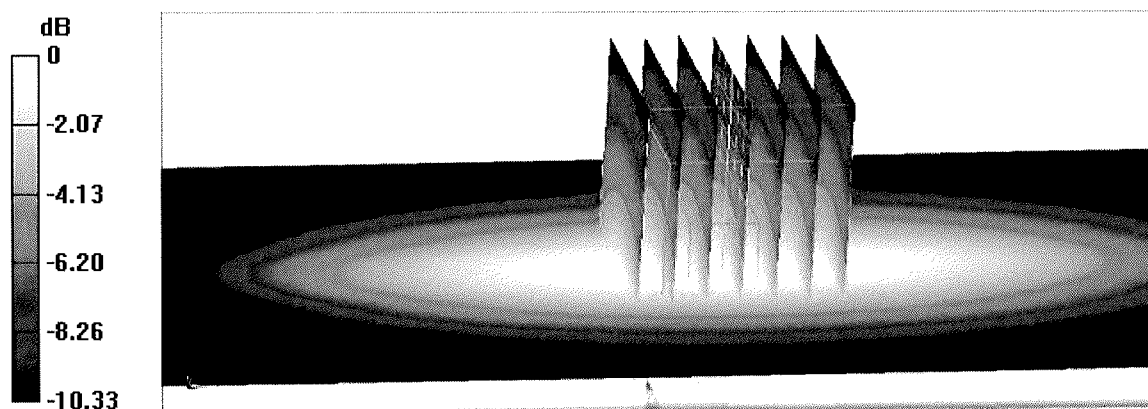
Peak SAR (extrapolated) = 3.87 W/kg

SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.6 W/kg

Smallest distance from peaks to all points 3 dB below = 17.5 mm

Ratio of SAR at M2 to SAR at M1 = 63.5%

Maximum value of SAR (measured) = 3.35 W/kg



0 dB = 3.35 W/kg = 5.25 dBW/kg



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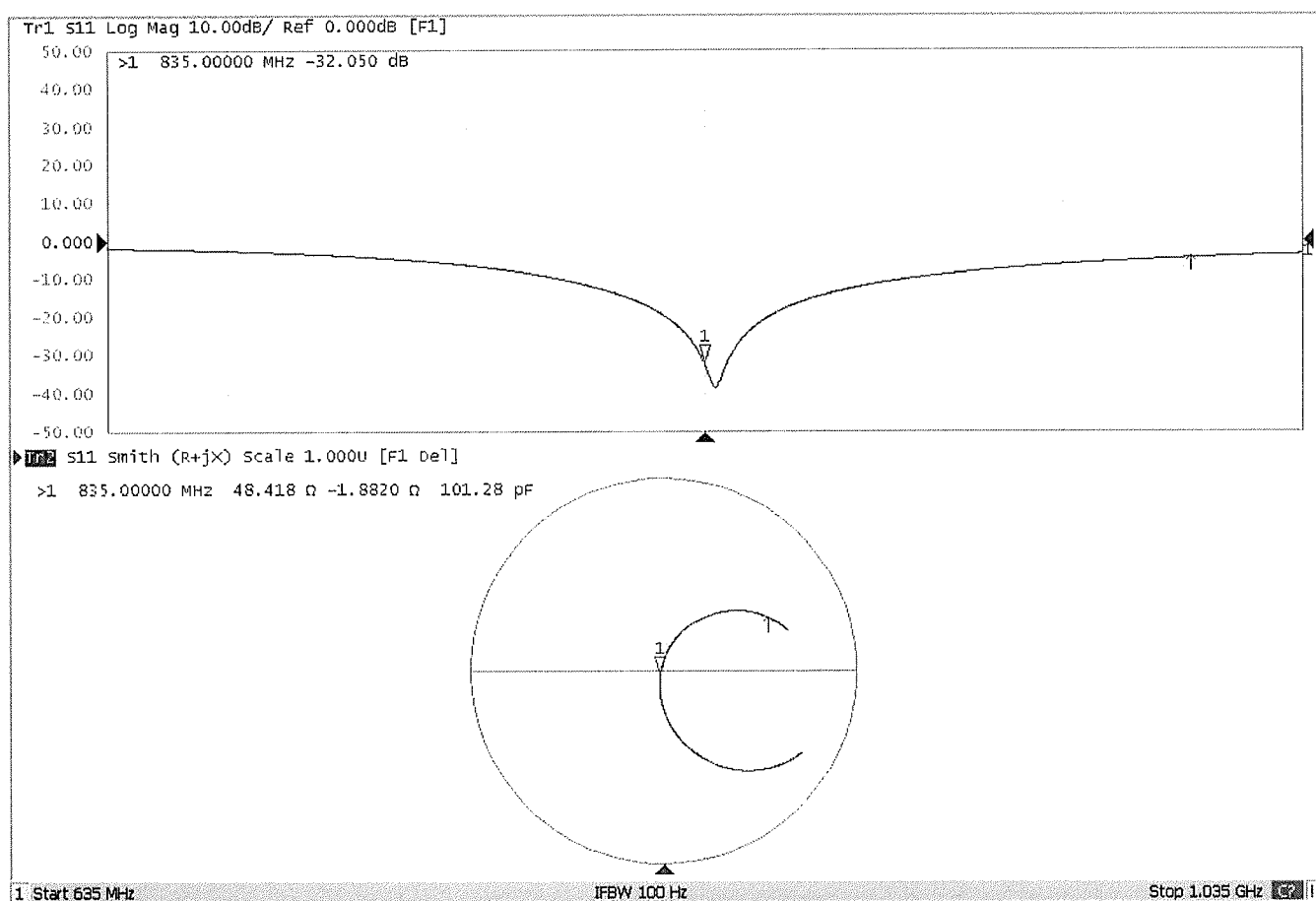
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Impedance Measurement Plot for Head TSL



Client **7layers**

Certificate No: **24J02Z000856**

CALIBRATION CERTIFICATE

Object D1750V2 - SN: 1176

Calibration Procedure(s) FF-Z11-003-01
Calibration Procedures for dipole validation kits

Calibration date: November 6, 2024

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

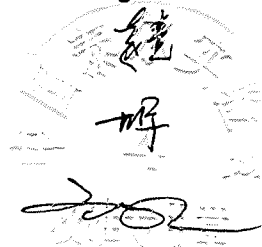
All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106276	17-May-24 (CTTL, No. J24X04107)	May-25
Power sensor NRP6A	101369	17-May-24 (CTTL, No. J24X04107)	May-25
Reference Probe EX3DV4	SN 7517	21-Feb-24(CTTL-SPEAG, No. 24J02Z80008)	Feb-25
DAE4	SN 1588	13-Sep-24(CTTL-SPEAG, No. 24J02Z000713)	Sep-25
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	25-Dec-23 (CTTL, No. J23X13426)	Dec-24
NetworkAnalyzer E5071C	MY46110673	25-Dec-23 (CTTL, No. J23X13425)	Dec-24
OCP DAK-3.5(weighted)	1040	22-Jan-24(SPEAG, No.OCP-DAK3.5-1040_Jan24)	Jan-25

	Name	Function
Calibrated by:	Zhao Jing	SAR Test Engineer
Reviewed by:	Lin Jun	SAR Test Engineer
Approved by:	Qi Dianyuan	SAR Project Leader

Signature



Issued: November 15, 2024

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Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM _{x,y,z}
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "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)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- c) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



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<http://www.caict.ac.cn>**Measurement Conditions**

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1750 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.1	1.37 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	41.1 $\pm$ 6 %	1.38 mho/m $\pm$ 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.17 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	36.7 W/kg $\pm$ 18.8 % (k=2)
SAR averaged over 10 cm³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	4.87 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	19.5 W/kg $\pm$ 18.7 % (k=2)



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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.6Ω- 2.87jΩ
Return Loss	- 30.7dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.135 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

Additional EUT Data

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DASY5 Validation Report for Head TSL

Date: 2024-11-06

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1176

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.384$ S/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(8.22, 8.22, 8.22) @ 1750 MHz; Calibrated: 2024-02-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1588; Calibrated: 2024-09-13
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.34 V/m; Power Drift = -0.03 dB

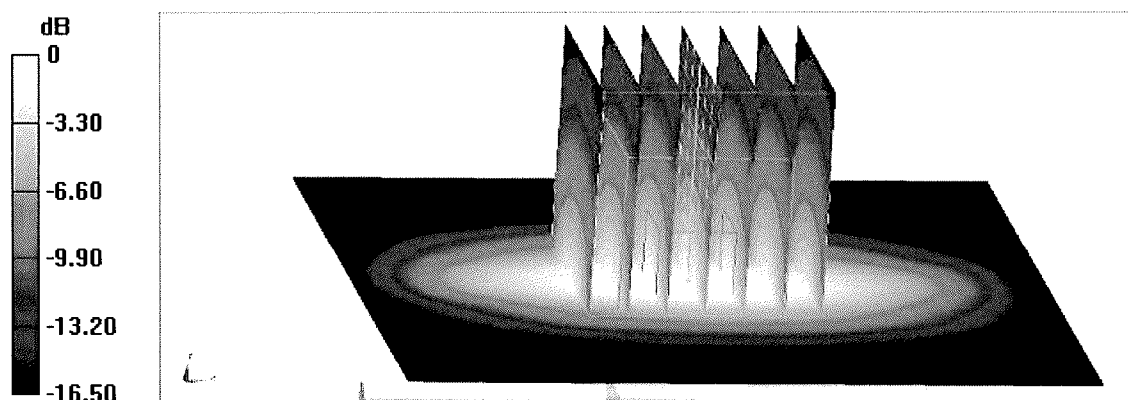
Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 9.17 W/kg; SAR(10 g) = 4.87 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 54.8%

Maximum value of SAR (measured) = 14.2 W/kg



0 dB = 14.2 W/kg = 11.52 dBW/kg



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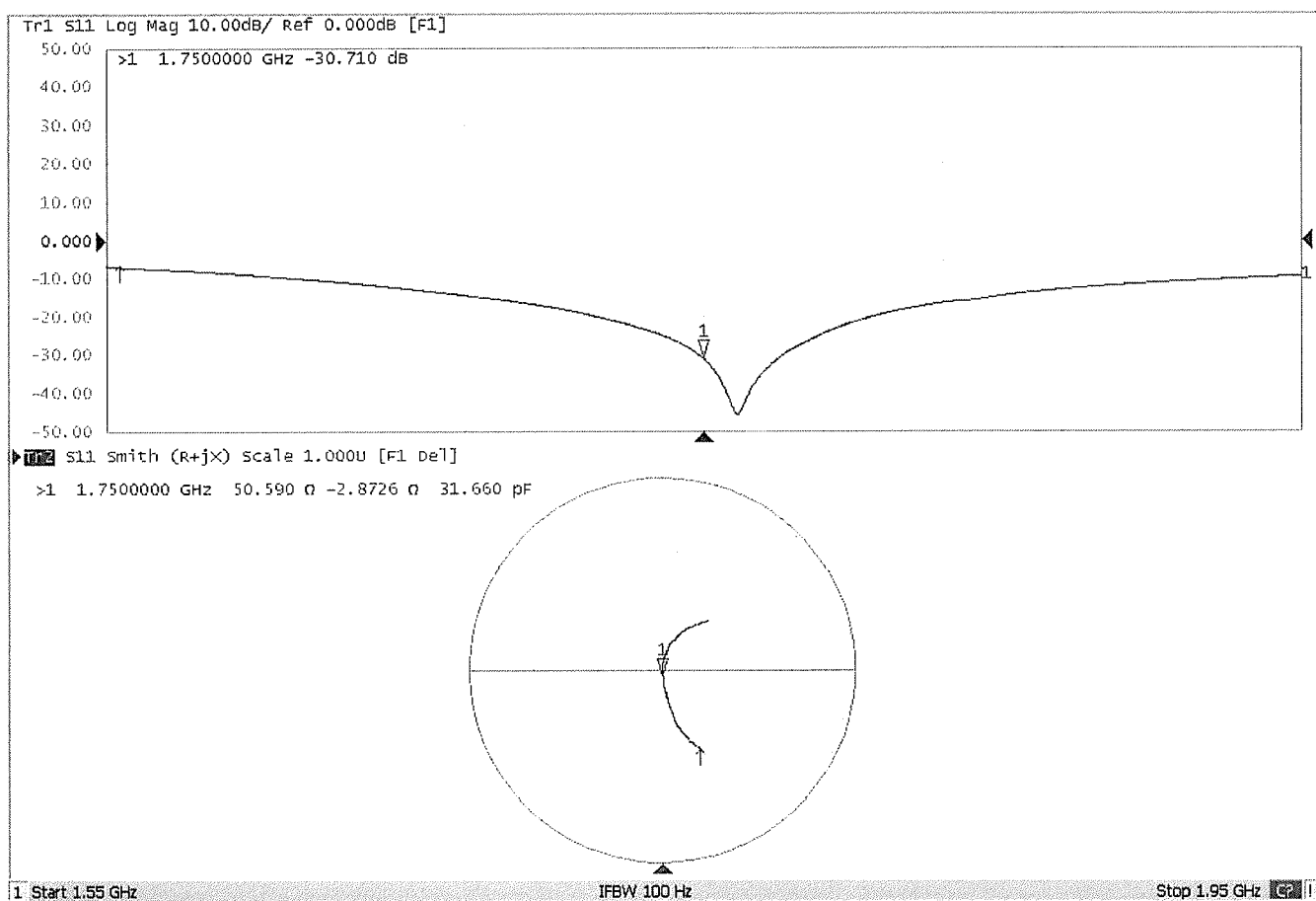
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Impedance Measurement Plot for Head TSL



Client: 7layers

Certificate No: 24J02Z000857

CALIBRATION CERTIFICATE

Object D1950V3 - SN: 1229

Calibration Procedure(s) FF-Z11-003-01
Calibration Procedures for dipole validation kits

Calibration date: November 7, 2024

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106276	17-May-24 (CTTL, No. J24X04107)	May-25
Power sensor NRP6A	101369	17-May-24 (CTTL, No. J24X04107)	May-25
Reference Probe EX3DV4	SN 7517	21-Feb-24(CTTL-SPEAG, No. 24J02Z80008)	Feb-25
DAE4	SN 1588	13-Sep-24(CTTL-SPEAG, No. 24J02Z000713)	Sep-25
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	25-Dec-23 (CTTL, No. J23X13426)	Dec-24
NetworkAnalyzer E5071C	MY46110673	25-Dec-23 (CTTL, No. J23X13425)	Dec-24
OCP DAK-3.5(weighted)	1040	22-Jan-24(SPEAG, No.OCP-DAK3.5-1040_Jan24)	Jan-25

	Name	Function	Signature
Calibrated by:	Zhao Jing	SAR Test Engineer	
Reviewed by:	Lin Jun	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: November 15, 2024

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Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM _{x,y,z}
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "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)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- c) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



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<http://www.caict.ac.cn>**Measurement Conditions**

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1950 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	40.7 $\pm$ 6 %	1.39 mho/m $\pm$ 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	10.1 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	40.8 W/kg $\pm$ 18.8 % (k=2)
SAR averaged over 10 cm³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	5.18 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	20.9 W/kg $\pm$ 18.7 % (k=2)



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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$47.3\Omega + 2.24j\Omega$
Return Loss	- 28.9dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.098 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 2024-11-07

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 1950 MHz; Type: D1950V2; Serial: D1950V2 - SN: 1229

Communication System: UID 0, CW; Frequency: 1950 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1950$ MHz; $\sigma = 1.385$ S/m; $\epsilon_r = 40.68$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(7.95, 7.95, 7.95) @ 1950 MHz; Calibrated: 2024-02-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1588; Calibrated: 2024-09-13
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.1 V/m; Power Drift = 0.00 dB

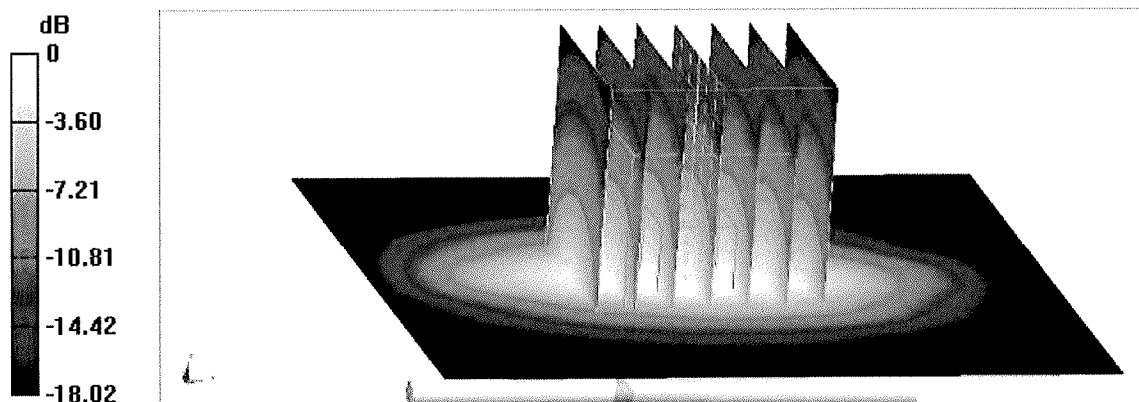
Peak SAR (extrapolated) = 19.3 W/kg

SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.18 W/kg

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.3%

Maximum value of SAR (measured) = 15.9 W/kg



0 dB = 15.9 W/kg = 12.01 dBW/kg



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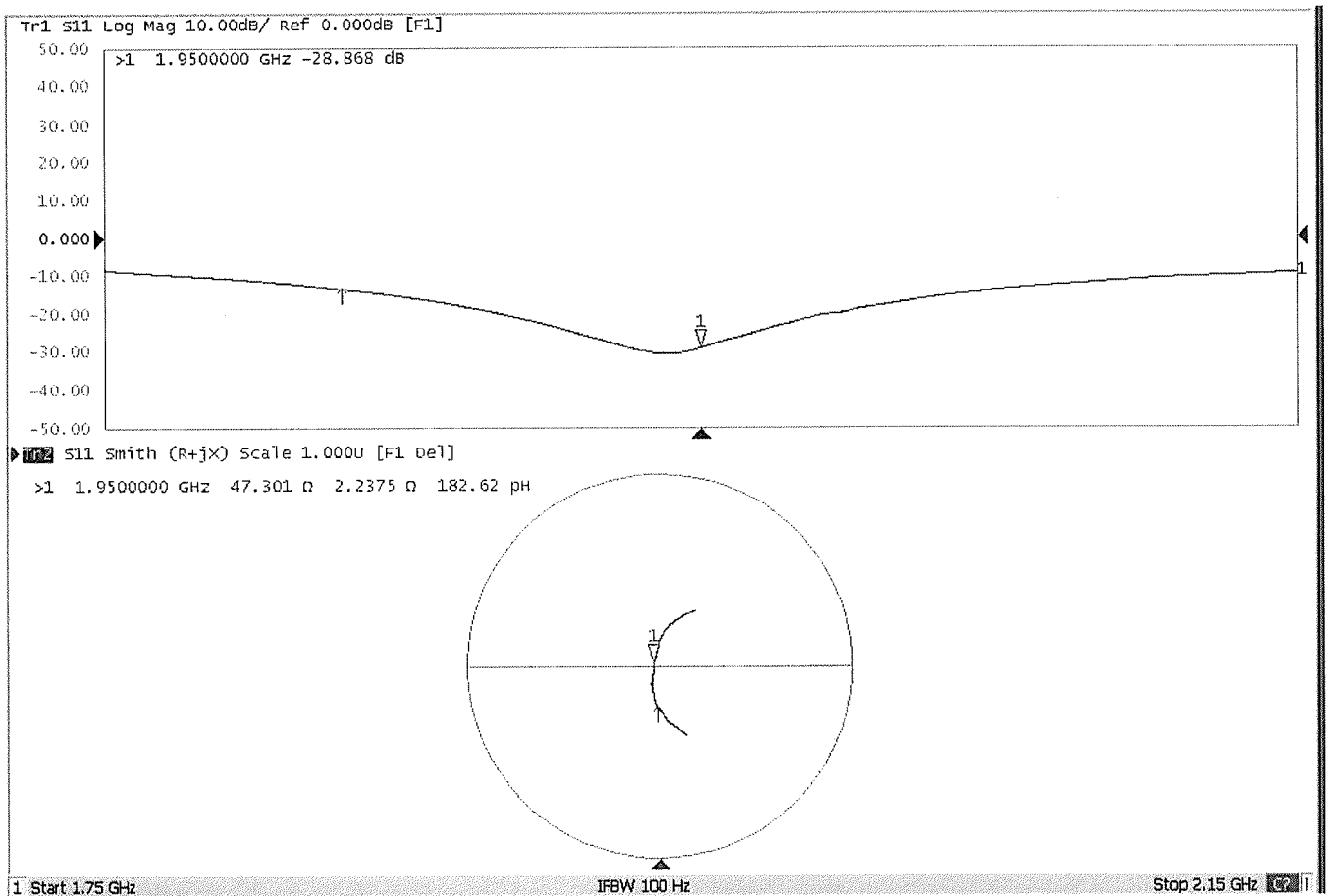
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Impedance Measurement Plot for Head TSL



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Client **7layers**

Certificate No: **24J02Z000859**

CALIBRATION CERTIFICATE

Object **D2450V2 - SN: 1048**

Calibration Procedure(s) **FF-Z11-003-01**
Calibration Procedures for dipole validation kits

Calibration date: **November 6, 2024**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

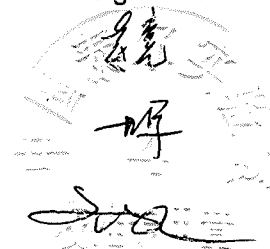
All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106276	17-May-24 (CTTL, No. J24X04107)	May-25
Power sensor NRP6A	101369	17-May-24 (CTTL, No. J24X04107)	May-25
Reference Probe EX3DV4	SN 7517	21-Feb-24(CTTL-SPEAG, No. 24J02Z80008)	Feb-25
DAE4	SN 1588	13-Sep-24(CTTL-SPEAG, No. 24J02Z000713)	Sep-25
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	25-Dec-23 (CTTL, No. J23X13426)	Dec-24
NetworkAnalyzer E5071C	MY46110673	25-Dec-23 (CTTL, No. J23X13425)	Dec-24
OCP DAK-3.5(weighted)	1040	22-Jan-24(SPEAG, No.OCP-DAK3.5-1040_Jan24)	Jan-25

	Name	Function
Calibrated by:	Zhao Jing	SAR Test Engineer
Reviewed by:	Lin Jun	SAR Test Engineer
Approved by:	Qi Dianyuan	SAR Project Leader

Signature



Issued: November 15, 2024

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Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM _{x,y,z}
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "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)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- c) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



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<http://www.caict.ac.cn>**Measurement Conditions**

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	40.1 $\pm$ 6 %	1.81 mho/m $\pm$ 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.3 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	53.3 W/kg $\pm$ 18.8 % (<i>k</i>=2)
SAR averaged over 10 cm³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	6.14 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.6 W/kg $\pm$ 18.7 % (<i>k</i>=2)



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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	47.4Ω+ 9.16jΩ
Return Loss	- 20.2dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.059 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

Additional EUT Data

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DASY5 Validation Report for Head TSL

Date: 2024-11-06

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 1048

Communication System: UID 0, CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.809$ S/m; $\epsilon_r = 40.08$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(7.37, 7.37, 7.37) @ 2450 MHz; Calibrated: 2024-02-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1588; Calibrated: 2024-09-13
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 107.2 V/m; Power Drift = 0.00 dB

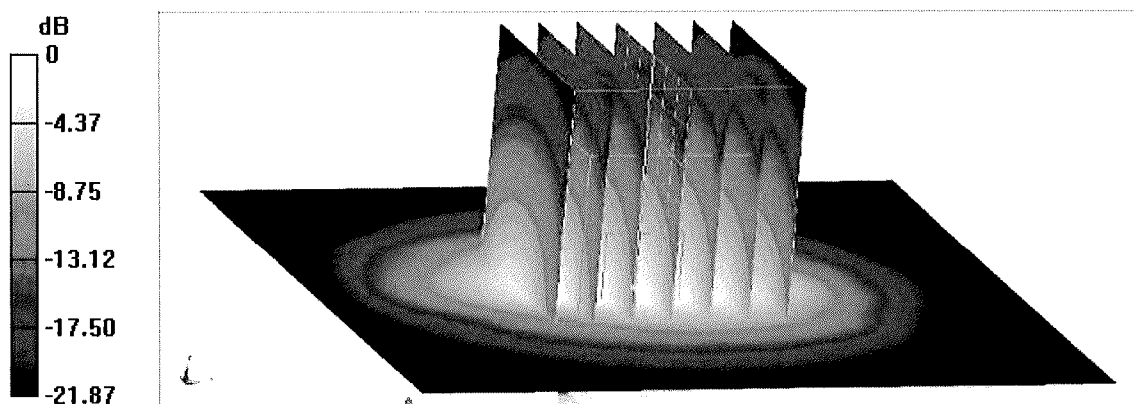
Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.14 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 49.5%

Maximum value of SAR (measured) = 22.1 W/kg



0 dB = 22.1 W/kg = 13.44 dBW/kg



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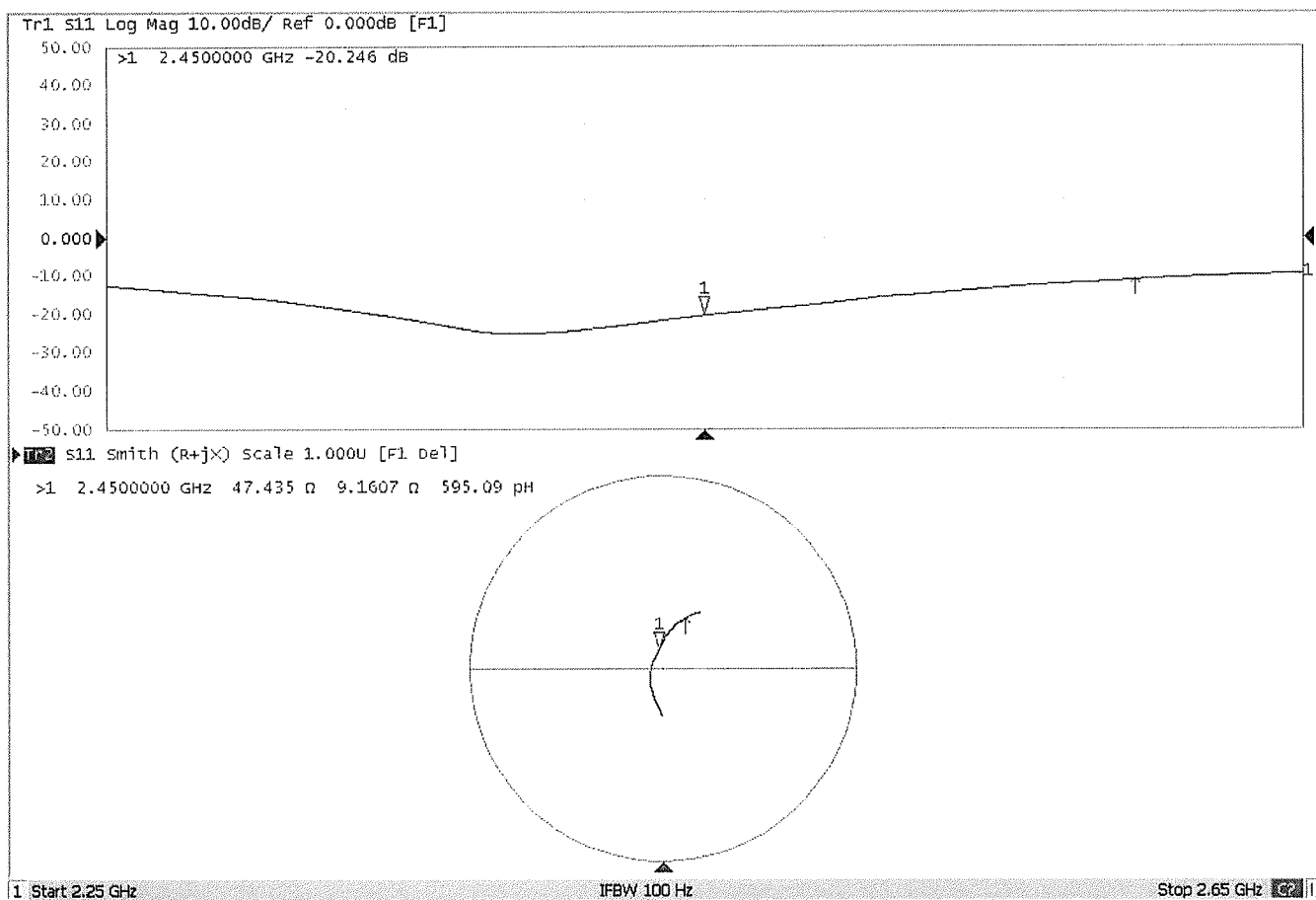
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Impedance Measurement Plot for Head TSL





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Accreditation No.: **SCS 0108**

Client **7-Layers (Auden)**

Certificate No: **D2550V2-1022_Sep22**

CALIBRATION CERTIFICATE

Object **D2550V2 - SN:1022**

Calibration procedure(s) **QA CAL-05.v11
Calibration Procedure for SAR Validation Sources between 0.7-3 GHz**

Calibration date: **September 22, 2022**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-22 (No. 217-03525/03524)	Apr-23
Power sensor NRP-Z91	SN: 103244	04-Apr-22 (No. 217-03524)	Apr-23
Power sensor NRP-Z91	SN: 103245	04-Apr-22 (No. 217-03525)	Apr-23
Reference 20 dB Attenuator	SN: BH9394 (20k)	04-Apr-22 (No. 217-03527)	Apr-23
Type-N mismatch combination	SN: 310982 / 06327	04-Apr-22 (No. 217-03528)	Apr-23
Reference Probe EX3DV4	SN: 7349	31-Dec-21 (No. EX3-7349_Dec21)	Dec-22
DAE4	SN: 601	31-Aug-22 (No. DAE4-601_Aug22)	Aug-23
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-20)	In house check: Oct-22
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Sven Kühn	Technical Manager	

Issued: September 23, 2022

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The source is mounted in a touch configuration below the center marking of the flat phantom.
- *Return Loss:* This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2550 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.1	1.91 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	37.4 $\pm$ 6 %	1.95 mho/m $\pm$ 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	53.0 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.13 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.2 W/kg $\pm$ 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.0 Ω - 4.0 j Ω
Return Loss	- 27.1 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.157 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 22.09.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2550 MHz; Type: D2550V2; Serial: D2550V2 - SN:1022

Communication System: UID 0 - CW; Frequency: 2550 MHz

Medium parameters used: $f = 2550$ MHz; $\sigma = 1.95$ S/m; $\epsilon_r = 37.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(7.85, 7.85, 7.85) @ 2550 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 31.08.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 113.1 V/m; Power Drift = 0.06 dB

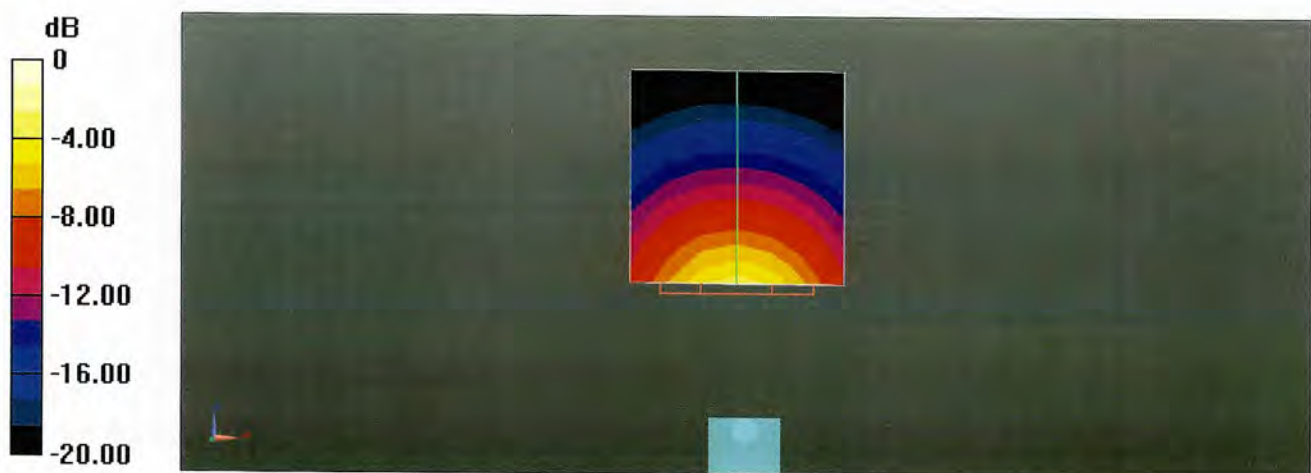
Peak SAR (extrapolated) = 27.5 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.13 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

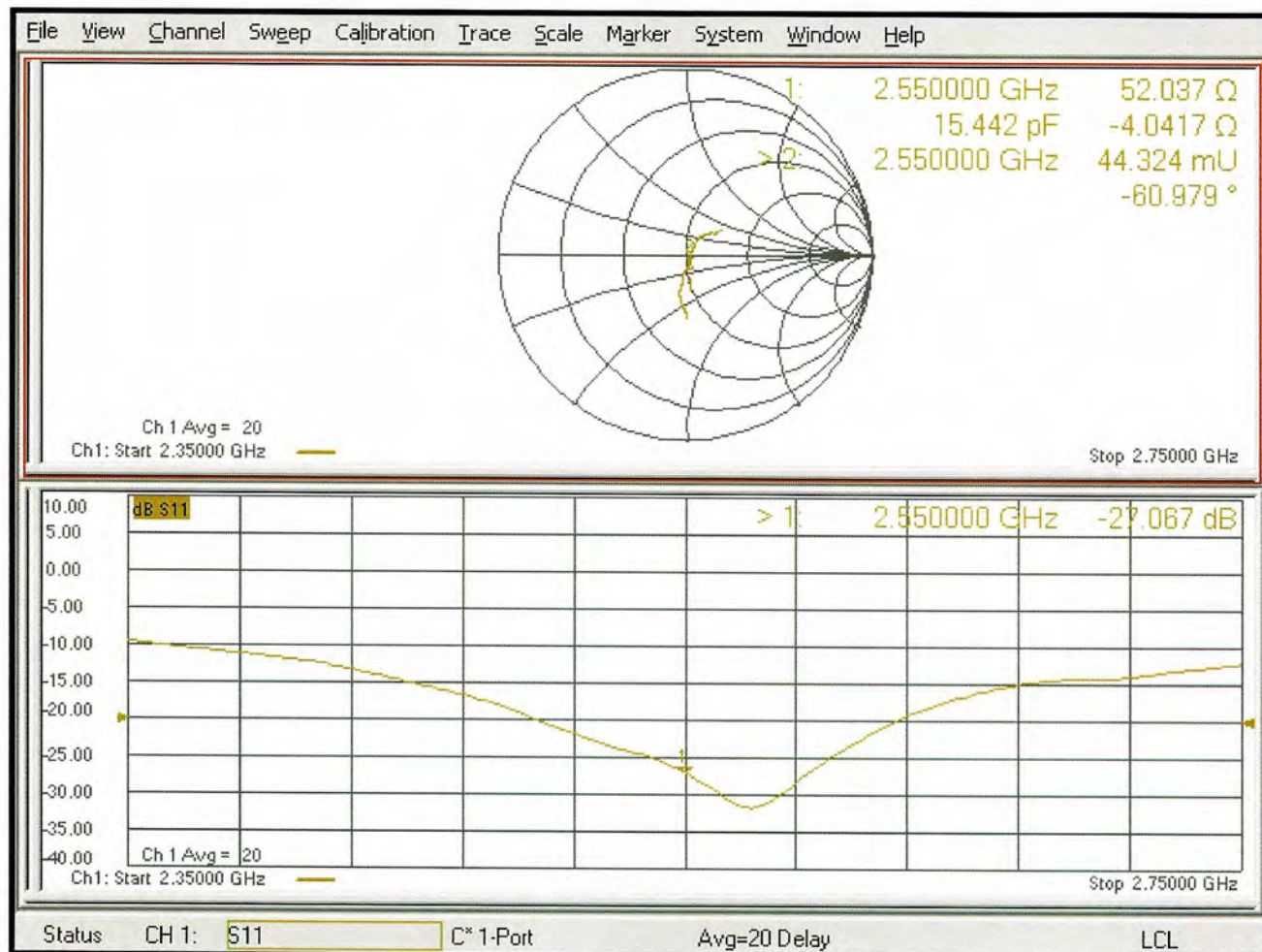
Ratio of SAR at M2 to SAR at M1 = 49%

Maximum value of SAR (measured) = 22.6 W/kg



0 dB = 22.6 W/kg = 13.54 dBW/kg

Impedance Measurement Plot for Head TSL



D2550V2 - SN: 1022 Extended Dipole Calibrations

Referring to KDB 865664 D01, if dipoles are verified in return loss ($< -20\text{dB}$, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

D2550V2 - SN: 1022						
2550MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
9.22.2022	-27.1		52		-4	
9.21.2023	-23.13	-14.66	54.77	2.77	-5.52	-1.52

<Justification of the extended calibration>

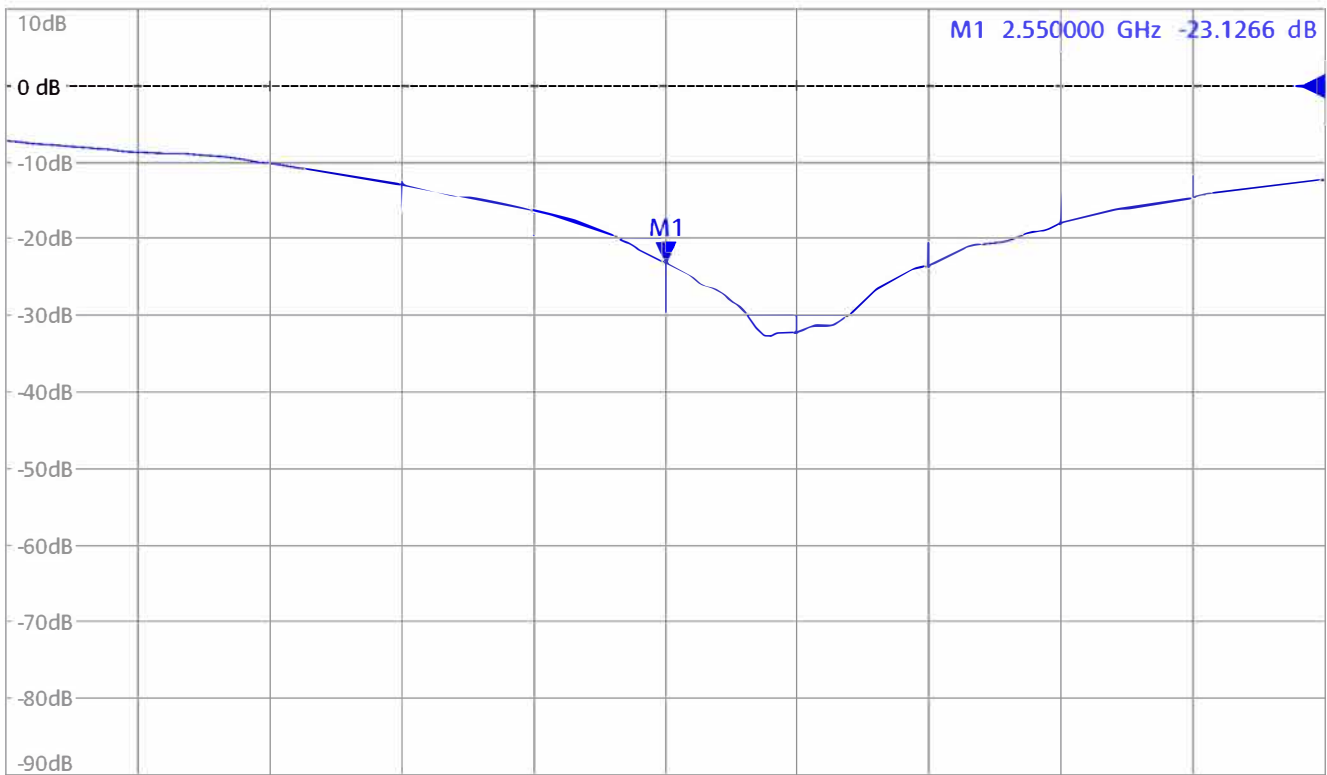
The return loss is $< -20\text{dB}$, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

<Dipole Verification Data>

Head 2550MHz _2023.09.21

Trc1 — S11 dB Mag 10 dB/ Ref 0 dB Cal

1

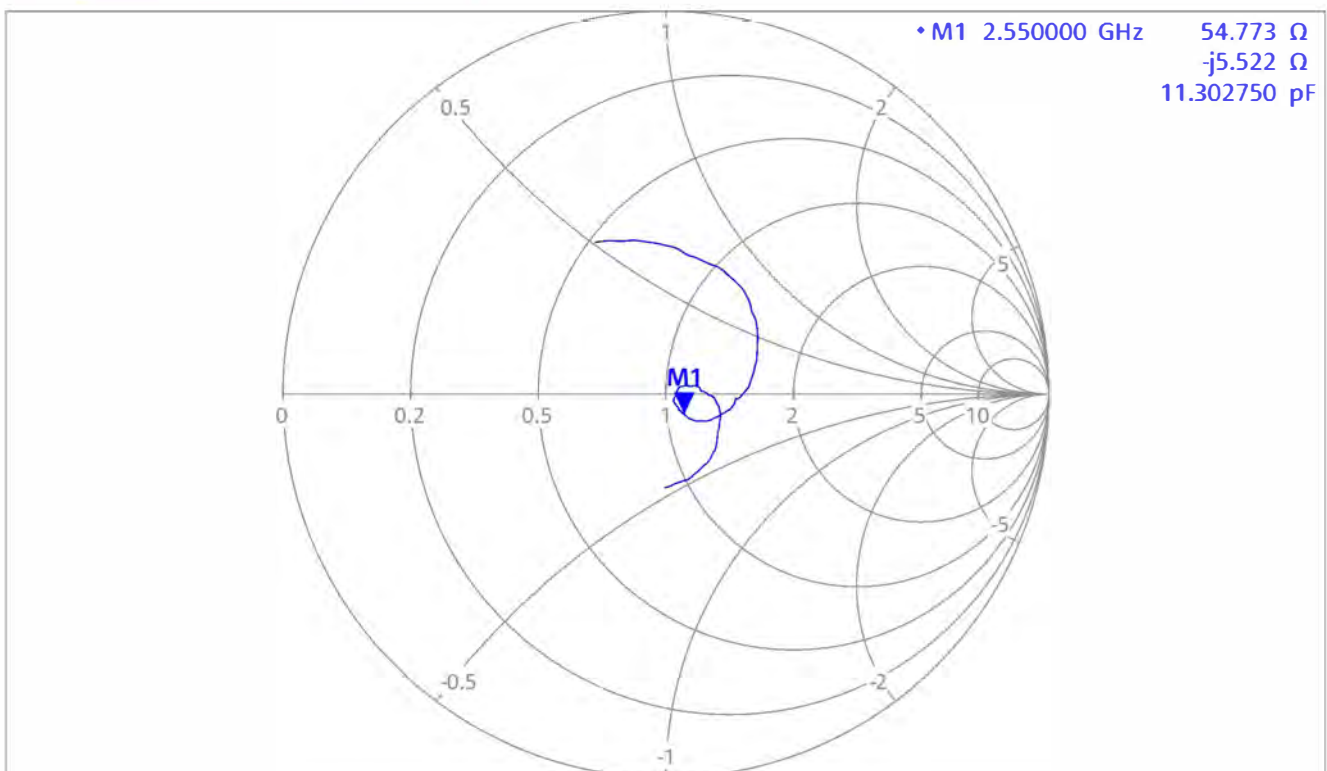


Ch1 Start 2.35 GHz Pwr -10 dBm Bw 10 kHz Refl OSM P1

Stop 2.75 GHz

Trc2 — S11 Smith 200 mU/ Ref 1 U Cal

2



Ch1 Start 2.35 GHz Pwr -10 dBm Bw 10 kHz Refl OSM P1

Stop 2.75 GHz

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Client

7layers

Certificate No: 24J02Z000865

CALIBRATION CERTIFICATE

Object D5GHzV2 - SN: 1315

Calibration Procedure(s) FF-Z11-003-01
Calibration Procedures for dipole validation kits

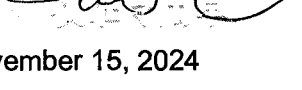
Calibration date: November 5, 2024

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22\pm3)^{\circ}\text{C}$ and humidity $<70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106276	17-May-24 (CTTL, No. J24X04107)	May-25
Power sensor NRP6A	101369	17-May-24 (CTTL, No. J24X04107)	May-25
Reference Probe EX3DV4	SN 7517	21-Feb-24(CTTL-SPEAG, No. 24J02Z80008)	Feb-25
DAE4	SN 1588	13-Sep-24(CTTL-SPEAG, No. 24J02Z000713)	Sep-25
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	25-Dec-23 (CTTL, No. J23X13426)	Dec-24
NetworkAnalyzer E5071C	MY46110673	25-Dec-23 (CTTL, No. J23X13425)	Dec-24
OCP DAK-3.5(weighted)	1040	22-Jan-24(SPEAG, No.OCP-DAK3.5-1040_Jan24)	Jan-25

	Name	Function	Signature
Calibrated by:	Zhao Jing	SAR Test Engineer	
Reviewed by:	Lin Jun	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: November 15, 2024

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Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM _{x,y,z}
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "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)", October 2020
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



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<http://www.caic.ac.cn>**Measurement Conditions**

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5250 MHz $\pm$ 1 MHz 5600 MHz $\pm$ 1 MHz 5750 MHz $\pm$ 1 MHz	

Head TSL parameters at 5250MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.71 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	35.8 $\pm$ 6 %	4.70 mho/m $\pm$ 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL at 5250MHz

SAR averaged over 1	(1 g) of Head TSL	Condition	
SAR measured		100 mW input power	7.73 W/kg
SAR for nominal Head TSL parameters		normalized to 1W	77.3 W/kg $\pm$ 24.4 % (k=2)
SAR averaged over 10	(10 g) of Head TSL	Condition	
SAR measured		100 mW input power	2.16 W/kg
SAR for nominal Head TSL parameters		normalized to 1W	21.6 W/kg $\pm$ 24.2 % (k=2)



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Head TSL parameters at 5600MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.2 ± 6 %	5.08 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL at 5600MHz

SAR averaged over 1 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.18 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.7 W/kg ± 24.4 % (k=2)
SAR averaged over 10 (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.27 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.7 W/kg ± 24.2 % (k=2)

Head TSL parameters at 5750MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.0 ± 6 %	5.24 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL at 5750MHz

SAR averaged over 1 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.73 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.1 W/kg ± 24.4 % (k=2)
SAR averaged over 10 (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.13 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.2 W/kg ± 24.2 % (k=2)



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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL at 5250MHz

Impedance, transformed to feed point	49.2Ω- 1.60jΩ
Return Loss	- 34.8dB

Antenna Parameters with Head TSL at 5600MHz

Impedance, transformed to feed point	53.2Ω+ 4.15jΩ
Return Loss	- 25.9dB

Antenna Parameters with Head TSL at 5750MHz

Impedance, transformed to feed point	49.3Ω+ 4.49jΩ
Return Loss	- 26.8dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.099 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 2024-11-05

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1315

Communication System: CW; Frequency: 5250 MHz, Frequency: 5600 MHz,
Frequency: 5750 MHz

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.698$ S/m; $\epsilon_r = 35.84$; $\rho = 1000$ kg/m³

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.077$ S/m; $\epsilon_r = 35.24$; $\rho = 1000$ kg/m³

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.241$ S/m; $\epsilon_r = 35.02$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(5.43, 5.43, 5.43) @ 5250 MHz; ConvF(4.83, 4.83, 4.83) @ 5600 MHz; ConvF(4.95, 4.95, 4.95) @ 5750 MHz; Calibrated: 2024-02-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1588; Calibrated: 2024-09-13
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration /Pin=100mW, d=10mm, f=5250 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 61.02 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 32.1 W/kg

SAR(1 g) = 7.73 W/kg; SAR(10 g) = 2.16 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 64.4%

Maximum value of SAR (measured) = 18.7 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 60.79 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 38.0 W/kg

SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.27 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 60.8%

Maximum value of SAR (measured) = 20.4 W/kg



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Dipole Calibration /Pin=100mW, d=10mm, f=5750 MHz/Zoom Scan,
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 59.50 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 37.3 W/kg
SAR(1 g) = 7.73 W/kg; SAR(10 g) = 2.13 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 59.4%
Maximum value of SAR (measured) = 19.7 W/kg



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Impedance Measurement Plot for Head TSL

Appendix D. Conducted RF Output Power Table

The detailed power table are shown as follows.

GSM&WCDMA_Default

Band				GSM850_Ant1				GSM850_Ant4			
Channel	128	189	251	Max. Tune-up Power (dBm)	128	189	251	Max. Tune-up Power (dBm)	128	189	251
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		824.2	836.4	848.8
GSM	32.47	32.34	32.34	33.50	32.03	32.20	32.24	33.50	32.03	32.20	32.24
GPRS 1Tx Slot	32.32	32.33	32.24	33.50	31.99	32.06	32.12	33.50	31.99	32.06	32.12
GPRS 2Tx Slot	28.87	28.77	28.82	30.00	28.49	28.65	28.72	30.00	28.49	28.65	28.72
GPRS 3Tx Slot	27.36	27.37	27.24	28.50	26.97	27.06	27.10	28.50	26.97	27.06	27.10
GPRS 4Tx Slot	26.12	26.17	26.17	27.50	25.83	25.93	26.08	27.50	25.83	25.93	26.08
EDGE 1Tx Slot	26.87	27.06	26.97	28.00	26.69	26.79	26.89	28.00	26.69	26.79	26.89
EDGE 2Tx Slot	23.65	23.81	23.75	25.00	23.55	23.64	23.49	25.00	23.55	23.64	23.49
EDGE 3Tx Slot	21.89	22.03	22.00	23.20	21.89	21.90	21.63	23.20	21.89	21.90	21.63
EDGE 4Tx Slot	20.99	21.25	21.24	22.00	21.14	21.11	20.99	22.00	21.14	21.11	20.99

Source-Based Time-Averaged Power											
Band				GSM850				GSM850			
Channel	128	189	251	Max. Tune-up Power (dBm)	128	189	251	Max. Tune-up Power (dBm)	128	189	251
GSM	23.47	23.34	23.34	24.50	23.03	23.20	23.24	24.50	23.03	23.20	23.24
GPRS 1Tx Slot	23.32	23.33	23.24	24.50	22.99	23.06	23.12	24.50	22.99	23.06	23.12
GPRS 2Tx Slot	22.87	22.77	22.82	24.00	22.49	22.65	22.72	24.00	22.49	22.65	22.72
GPRS 3Tx Slot	23.10	23.11	22.98	24.24	22.71	22.80	22.84	24.24	22.71	22.80	22.84
GPRS 4Tx Slot	23.12	23.17	23.17	24.50	22.83	22.93	23.08	24.50	22.83	22.93	23.08
EDGE 1Tx Slot	17.87	18.06	17.97	19.00	17.69	17.79	17.69	19.00	17.69	17.79	17.69
EDGE 2Tx Slot	17.65	17.81	17.75	19.00	17.55	17.64	17.49	19.00	17.55	17.64	17.49
EDGE 3Tx Slot	17.63	17.77	17.74	18.94	17.63	17.64	17.37	18.94	17.63	17.64	17.37
EDGE 4Tx Slot	17.99	18.25	18.24	19.00	18.14	18.11	17.99	19.00	18.14	18.11	17.99

Band				WCDMA II_Ant1				WCDMA II_Ant4			
TX Channel	9262	9400	9538	Max. Tune-up Power (dBm)	9262	9400	9538	Max. Tune-up Power (dBm)	9262	9400	9538
Rx Channel	9662	9800	9938		9662	9800	9938		9662	9800	9938
Frequency (MHz)	1852.4	1880	1907.6		1852.4	1880	1907.6		1852.4	1880	1907.6
RMC 12.2K	23.79	23.70	23.72	25.00	23.35	23.30	23.34	25.00	23.35	23.30	23.34
HSDPA Subtest-1	22.87	22.85	22.86	23.50	22.49	22.42	22.44	23.50	22.49	22.42	22.44
HSDPA Subtest-2	22.69	22.74	22.81	23.50	22.48	22.45	22.47	23.50	22.48	22.45	22.47
HSDPA Subtest-3	22.35	22.39	22.35	23.50	21.99	21.98	21.96	23.50	21.99	21.98	21.96
HSDPA Subtest-4	22.35	22.36	22.32	23.50	21.87	21.86	21.93	23.50	21.87	21.86	21.93
DC-HSDPA Subtest-1	22.85	22.88	22.84	23.50	22.55	22.45	22.47	23.50	22.55	22.45	22.47
DC-HSDPA Subtest-2	22.66	22.79	22.77	23.50	22.46	22.47	22.45	23.50	22.46	22.47	22.45
DC-HSDPA Subtest-3	22.39	22.34	22.38	23.50	22.03	22.09	22.01	23.50	22.03	22.09	22.01
DC-HSDPA Subtest-4	22.30	22.30	22.36	23.50	21.91	21.95	21.98	23.50	21.91	21.95	21.98
HSUPA Subtest-1	20.99	21.04	21.02	22.50	20.78	20.76	20.79	22.50	20.78	20.76	20.79
HSUPA Subtest-2	20.74	20.78	20.82	22.50	20.62	20.58	20.59	22.50	20.62	20.58	20.59
HSUPA Subtest-3	21.60	21.64	21.66	22.50	21.45	21.41	21.46	22.50	21.45	21.41	21.46
HSUPA Subtest-4	20.70	20.66	20.72	22.50	20.66	20.58	20.55	22.50	20.66	20.58	20.55
HSUPA Subtest-5	21.72	21.75	21.69	22.50	21.62	21.56	21.51	22.50	21.62	21.56	21.51
HSPA+ Subtest-1	21.00	21.04	21.02	22.50	20.91	20.88	20.83	22.50	20.91	20.88	20.83

Band				WCDMA V_Ant1				WCDMA V_Ant4			
TX Channel	4132	4182	4233	Max. Tune-up Power (dBm)	4132	4182	4233	Max. Tune-up Power (dBm)	4132	4182	4233
Rx Channel	4357	4407	4458		4357	4407	4458		4357	4407	4458
Frequency (MHz)	826.4	836.4	846.6		826.4	836.4	846.6		826.4	836.4	846.6
RMC 12.2K	23.92	23.84	23.89	25.00	23.50	23.46	23.51	25.00	23.50	23.46	23.51
HSDPA Subtest-1	23.09	23.05	23.01	23.50	22.63	22.65	22.63	23.50	22.63	22.65	22.63
HSDPA Subtest-2	23.07	23.01	23.04	23.50	22.59	22.61	22.68	23.50	22.59	22.61	22.68
HSDPA Subtest-3	22.53	22.58	22.55	23.50	22.15	22.13	22.15	23.50	22.15	22.13	22.15
HSDPA Subtest-4	22.57	22.54	22.51	23.50	22.17	22.15	22.19	23.50	22.17	22.15	22.19
DC-HSDPA Subtest-1	23.07	23.02	23.09	23.50	22.60	22.63	22.60	23.50	22.60	22.63	22.60
DC-HSDPA Subtest-2	22.91	22.96	22.95	23.50	22.53	22.59	22.55	23.50	22.53	22.59	22.55
DC-HSDPA Subtest-3	22.59	22.57	22.53	23.50	22.16	22.14	22.13	23.50	22.16	22.14	22.13
DC-HSDPA Subtest-4	22.54	22.51	22.49	23.50	22.19	22.17	22.19	23.50	22.19	22.17	22.19
HSUPA Subtest-1	21.19	21.14	21.15	22.50	20.75	20.78	20.77	22.50	20.75	20.78	20.77
HSUPA Subtest-2	20.93	20.96	20.93	22.50	20.59	20.57	20.55	22.50	20.59	20.57	20.55
HSUPA Subtest-3	21.72	21.77	21.80	22.50	21.49	21.44	21.52	22.50	21.49	21.44	21.52
HSUPA Subtest-4	20.53	20.51	20.52	22.50	20.54	20.52	20.56	22.50	20.54	20.52	20.56
HSUPA Subtest-5	21.87	21.81	21.83	22.50	21.43	21.47	21.50	22.50	21.43	21.47	21.50
HSPA+ Subtest-1	21.07	21.02	21.09	22.50	20.71	20.68	20.70	22.50	20.71	20.68	20.70

Band				GSM1900_Ant1				GSM1900_Ant4			
Channel	512	661	810	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)	512	661	810
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		1850.2	1880	1909.8
GSM	29.40	29.49	29.70	30.50	29.26	29.25	29.37	30.50	29.26	29.25	29.37
GPRS 1Tx Slot	29.40	29.61	29.54	30.50	29.25	29.35	29.21	30.50	29.25	29.35	29.21
GPRS 2Tx Slot	25.74	25.86	25.81	26.70	25.51	25.53	25.56	26.70	25.51	25.53	25.56
GPRS 3Tx Slot	23.90	23.99	24.17	25.00	23.70	23.88	23.89	25.00	23.70	23.88	23.89
GPRS 4Tx Slot	22.93	23.04	23.19	24.00	22.64	22.83	22.96	24.00	22.64	22.83	22.96
EDGE 1Tx Slot	25.77	25.83	25.64	27.00	25.46	25.63	25.71	27.00	25.46	25.63	25.71
EDGE 2Tx Slot	22.58	22.65	22.64	24.00	22.41	22.68	22.62	24.00	22.41	22.68	22.62
EDGE 3Tx Slot	20.82	20.84	20.99	22.20	20.73	20.74	20.85	22.20	20.73	20.74	20.85
EDGE 4Tx Slot	19.91	19.71	19.67	21.00	19.70	19.62	19.65	21.00	19.70	19.62	19.65

Source-Based Time-Averaged Power											
Band				GSM1900				GSM1900			
Channel	512	661	810	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)	512	661	810
GSM	20.40	20.49	20.70	21.50	20.26	20.25	20.37	21.50	20.26	20.25	20.37
GPRS 1Tx Slot	20.40	20.61	20.54	21.50	20.25	20.35	20.21	21.50	20.25	20.35	20.21
GPRS 2Tx Slot	19.74	19.86	19.81	20.70	19.51	19.53	19.56	20.70	19.51	19.53	19.56
GPRS 3Tx Slot	19.64	19.73	19.91	20.74	19.44	19.62	19.63	20.74	19.44	19.62	19.63
GPRS 4Tx Slot	19.93	20.04	20.19	21.00	19.64	19.83	19.96	21.00	19.64	19.83	19.96
EDGE 1Tx Slot	16.77	16.83	16.64	18.00	16.46	16.63	16.71	18.00	16.46	16.63	16.71
EDGE 2Tx Slot	16.58	16.65	16.64	18.00	16.41	16.68	16.62	18.00	16.41	16.68	16.62
EDGE 3Tx Slot	16.56	16.58	16.73	17.94	16.47	16.48	16.59	17.94	16.47	16.48	16.59
EDGE 4Tx Slot	16.91	16.71	16.67	18.00	16.70	16.62	16.65	18.00	16.70	16.62	16.65

Band		WCDMA IV_Ant1			WCDMA IV	WCDMA IV_Ant4			WCDMA IV
TX Channel	1312	1413	1513	Max. Tune-up Power (dBm)	1312	1413	1513	Max. Tune-up Power (dBm)	
Rx Channel	1537	1638	1738		1537	1638	1738		
Frequency (MHz)	1712.4	1732.6	1752.6		1712.4	1732.6	1752.6		
RMC	23.70	23.69	23.72	25.00	23.26	23.29	23.34	25.00	
HSDPA Subtest-1	22.83	22.80	22.78	23.50	22.41	22.39	22.43	23.50	
HSDPA Subtest-2	22.74	22.77	22.72	23.50	22.39	22.41	22.42	23.50	
HSDPA Subtest-3	22.25	22.26	22.24	23.50	21.92	21.95	21.96	23.50	
HSDPA Subtest-4	22.31	22.29	22.27	23.50	21.91	21.94	21.95	23.50	
DC-HSDPA Subtest-1	22.84	22.82	22.80	23.50	22.39	22.37	22.41	23.50	
DC-HSDPA Subtest-2	22.70	22.74	22.71	23.50	22.41	22.45	22.42	23.50	
DC-HSDPA Subtest-3	22.26	22.21	22.19	23.50	21.96	21.93	21.98	23.50	
DC-HSDPA Subtest-4	22.35	22.31	22.28	23.50	21.93	21.91	21.95	23.50	
HSPA Subtest-1	21.04	21.01	21.02	22.50	20.66	20.69	20.71	22.50	
HSPA Subtest-2	20.75	20.77	20.73	22.50	20.53	20.51	20.61	22.50	
HSPA Subtest-3	21.08	21.06	21.04	22.50	21.61	21.59	21.61	22.50	
HSPA Subtest-4	20.69	20.67	20.64	22.50	20.53	20.51	20.57	22.50	
HSPA Subtest-5	21.67	21.64	21.65	22.50	21.49	21.46	21.43	22.50	
HSPA+ Subtest-1	21.02	21.03	21.06	22.50	20.91	20.88	20.85	22.50	

GSM&WCDMA_DSI 1

Band		GSM850_Ant1 (DS1)				GSM850_Ant4 (DS1)			
Channel	128	189	251	Max. Tune-up Power (dBm)	128	189	251	Max. Tune-up Power (dBm)	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM	32.47	32.34	32.34	33.50	30.93	31.12	31.15	32.50	
GPRS 1Tx Slot	32.32	32.33	32.24	33.50	30.88	31.04	31.08	32.50	
GPRS 2Tx Slot	28.87	28.77	28.82	30.00	27.47	27.56	27.57	29.00	
GPRS 3Tx Slot	27.36	27.37	27.24	28.50	25.84	25.92	25.98	27.50	
GPRS 4Tx Slot	26.12	26.17	26.17	27.50	24.79	24.83	25.03	26.50	
EDGE 1Tx Slot	26.87	27.06	26.97	28.00	25.62	25.65	25.67	27.00	
EDGE 2Tx Slot	23.65	23.81	23.75	25.00	22.45	22.61	22.41	24.00	
EDGE 3Tx Slot	21.89	22.03	22.00	23.20	20.79	20.79	20.54	22.20	
EDGE 4Tx Slot	20.99	21.25	21.24	22.00	20.04	20.03	19.93	21.00	

Source-Based Time-Averaged Power								
Band		GSM850			GSM850			Max. Tune-up Power (dBm)
Channel	128	189	251	Max. Tune-up Power (dBm)	128	189	251	Max. Tune-up Power (dBm)
GSM	23.47	23.34	23.34	24.50	21.93	22.12	22.15	23.50
GPRS 1Tx Slot	23.32	23.33	23.24	24.50	21.88	22.04	22.08	23.50
GPRS 2Tx Slot	22.87	22.77	22.82	24.00	21.47	21.56	21.57	23.00
GPRS 3Tx Slot	23.10	23.11	22.98	24.24	21.58	21.66	21.72	23.24
GPRS 4Tx Slot	23.12	23.17	23.17	24.50	21.79	21.83	22.03	23.50
EDGE 1Tx Slot	17.87	18.06	17.97	19.00	16.62	16.65	16.67	18.00
EDGE 2Tx Slot	17.65	17.81	17.75	19.00	16.45	16.61	16.41	18.00
EDGE 3Tx Slot	17.63	17.77	17.74	18.94	16.53	16.53	16.28	17.94
EDGE 4Tx Slot	17.99	18.25	18.24	19.00	17.04	17.03	16.93	18.00

Band		WCDMA II_Ant1 (DS1)			WCDMA II_Ant4 (DS1)			WCDMA II_Ant4 (DS1)			
Tx Channel	9262	9400	9538	Max. Tune-up Power	9262	9400	9538	Max. Tune-up Power	9262	9400	9538
Rx Channel	9662	9800	9938		9662	9800	9938		9662	9800	9938
Frequency (MHz)	1852.4	1880	1907.6	(dBm)	1852.4	1880	1907.6	(dBm)	1852.4	1880	1907.6
RMC 12.2K	23.79	23.70	23.72	25.00	17.07	17.02	16.98	18.50	23.79	23.70	23.72
HSDPA Subtest-1	22.87	22.85	22.86	23.50	16.23	16.17	16.19	17.00	22.87	22.85	22.86
HSDPA Subtest-2	22.69	22.74	22.81	23.50	16.15	16.17	16.17	17.00	22.69	22.74	22.81
HSDPA Subtest-3	22.35	22.39	22.35	23.50	15.73	15.69	15.66	17.00	22.35	22.39	22.35
HSDPA Subtest-4	22.35	22.36	22.32	23.50	15.56	15.62	15.60	17.00	22.35	22.36	22.32
DC-HSDPA Subtest-1	22.85	22.88	22.84	23.50	16.23	16.18	16.14	17.00	22.85	22.88	22.84
DC-HSDPA Subtest-2	22.66	22.79	22.77	23.50	16.09	16.14	16.20	17.00	22.66	22.79	22.77
DC-HSDPA Subtest-3	22.39	22.34	22.38	23.50	15.66	15.61	15.73	17.00	22.39	22.34	22.38
DC-HSDPA Subtest-4	22.30	22.30	22.36	23.50	15.54	15.63	15.67	17.00	22.30	22.30	22.36
HSUPA Subtest-1	20.99	21.04	21.02	22.50	14.46	14.50	14.49	16.00	20.99	21.04	21.02
HSUPA Subtest-2	20.74	20.78	20.82	22.50	14.27	14.24	14.35	16.00	20.74	20.78	20.82
HSUPA Subtest-3	21.60	21.64	21.66	22.50	15.14	15.09	15.22	16.00	21.60	21.64	21.66
HSUPA Subtest-4	20.70	20.66	20.72	22.50	14.40	14.23	14.21	16.00	20.70	20.66	20.72
HSUPA Subtest-5	21.72	21.75	21.69	22.50	15.34	15.26	15.24	16.00	21.72	21.75	21.69
HSPA+ Subtest-1	21.00	21.04	21.02	22.50	14.63	14.55	14.53	16.00	21.00	21.04	21.02

Band		WCDMA V_Ant1 (DS1)			WCDMA V_Ant4 (DS1)			WCDMA V_Ant4 (DS1)				
Tx Channel	4132	4182	4233	Max. Tune-up Power	4132	4182	4233	Max. Tune-up Power	4132	4182	4233	Max. Tune-up Power
Rx Channel	4357	4407	4458	(dBm)	4357	4407	4458	(dBm)	4357	4407	4458	(dBm)
Frequency (MHz)	826.4	836.4	846.6		826.4	836.4	846.6		826.4	836.4	846.6	
RMC 12.2K	23.92	23.84	23.89	25.00	21.53	21.52	21.57	23.00	23.92	23.84	23.89	25.00
HSDPA Subtest-1	23.09	23.05	23.01	23.50	20.72	20.64	20.68	21.50	23.09	23.05	23.01	23.50
HSDPA Subtest-2	23.07	23.01	23.04	23.50	20.71	20.61	20.71	21.50	23.07	23.01	23.04	23.50
HSDPA Subtest-3	22.53	22.58	22.55	23.50	20.14	20.17	20.18	21.50	22.53	22.58	22.55	23.50
HSDPA Subtest-4	22.57	22.54	22.51	23.50	20.25	20.21	20.22	21.50	22.57	22.54	22.51	23.50
DC-HSDPA Subtest-1	23.07	23.02	23.09	23.50	20.68	20.74	20.59	21.50	23.07	23.02	23.09	23.50
DC-HSDPA Subtest-2	22.91	22.96	22.95	23.50	20.58	20.58	20.57	21.50	22.91	22.96	22.95	23.50
DC-HSDPA Subtest-3	22.59	22.57	22.53	23.50	20.18	20.20	20.12	21.50	22.59	22.57	22.53	23.50
DC-HSDPA Subtest-4	22.54	22.51	22.49	23.50	20.17	20.16	20.17	21.50	22.54	22.51	22.49	23.50
HSUPA Subtest-1	21.19	21.14	21.15	22.50	18.80	18.86	18.83	20.50	21.19	21.14	21.15	22.50
HSUPA Subtest-2	20.93	20.96	20.93	22.50	18.51	18.62	18.62	20.50	20.93	20.96	20.93	22.50
HSUPA Subtest-3	21.72	21.77	21.80	22.50	19.48	19.49	19.59	20.50	21.72	21.77	21.80	22.50
HSUPA Subtest-4	20.53	20.51	20.52	22.50	18.63	18.58	18.55	20.50	20.53	20.51	20.52	22.50
HSUPA Subtest-5	21.67	21.81	21.83	22.50	19.51	19.51	19.48	20.50	21.67	21.81	21.83	22.50
HSPA+ Subtest-1	21.07	21.02	21.09	22.50	18.76	18.78	18.76	20.50	21.07	21.02	21.09	22.50

Band	GSM1900_Ant1 (DS1)				GSM1900_Ant4 (DS1)			
Channel	512	661	810	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM	29.40	29.49	29.70	30.50	26.22	26.10	26.26	27.50
GPRS 1Tx Slot	29.40	29.61	29.54	30.50	26.18	26.21	26.19	27.50
GPRS 2Tx Slot	25.74	25.86	25.81	26.70	22.42	22.48	22.48	23.70
GPRS 3Tx Slot	23.90	23.99	24.17	25.00	20.63	20.86	20.75	22.00
GPRS 4Tx Slot	22.93	23.04	23.19	24.00	19.60	19.81	19.88	21.00
EDGE 1Tx Slot	25.77	25.83	25.84	27.00	25.45	25.49	25.68	27.00
EDGE 2Tx Slot	22.58	22.65	22.64	24.00	22.32	22.66	22.59	24.00
EDGE 3Tx Slot	20.82	20.84	20.99	22.20	20.70	20.71	20.71	22.20
EDGE 4Tx Slot	19.91	19.71	19.67	21.00	19.55	19.53	19.61	21.00

Source-Based Time-Averaged Power								
Band		GSM1900			GSM1900			Max. Tune-up Power (dBm)
Channel	512	661	810	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
GSM	20.40	20.49	20.70	21.50	17.22	17.10	17.26	18.50
GPRS 1Tx Slot	20.40	20.61	20.54	21.50	17.18	17.21	17.19	18.50
GPRS 2Tx Slot	19.74	19.86	19.81	20.70	16.42	16.48	16.48	17.70
GPRS 3Tx Slot	19.64	19.73	19.91	20.74	16.37	16.60	16.49	17.74
GPRS 4Tx Slot	19.93	20.04	20.19	21.00	16.60	16.81	16.88	18.00
EDGE 1Tx Slot	16.77	16.83	16.64	18.00	16.45	16.49	16.68	18.00
EDGE 2Tx Slot	16.58	16.65	16.64	18.00	16.32	16.66	16.59	18.00
EDGE 3Tx Slot	16.56	16.58	16.73	17.94	16.44	16.45	16.45	17.94
EDGE 4Tx Slot	16.91	16.71	16.67	18.00	16.55	16.53	16.61	18.00

Band	WCDMA IV Ant1 (DS1)			WCDMA IV	WCDMA IV Ant4 (DS1)			WCDMA IV
TX Channel	1312	1413	1513	Max. Tune-up	1312	1413	1513	Max. Tune-up
Rx Channel	1537	1638	1738	Power	1537	1638	1738	Power
Frequency (MHz)	1712.4	1732.6	1752.6	(dBm)	1712.4	1732.6	1752.6	(dBm)
RMC 12.2K	23.70	23.69	23.72	25.00	13.37	13.45	13.49	15.00
HSDPA Subtest-1	22.83	22.80	22.78	23.50	12.64	12.51	12.65	13.50
HSDPA Subtest-2	22.74	22.77	22.72	23.50	12.80	12.83	12.66	13.50
HSDPA Subtest-3	22.25	22.26	22.24	23.50	12.10	12.11	12.10	13.50
HSDPA Subtest-4	22.31	22.29	22.27	23.50	12.02	12.13	12.16	13.50
DC-HSDPA Subtest-1	22.84	22.82	22.80	23.50	12.63	12.52	12.64	13.50
DC-HSDPA Subtest-2	22.70	22.74	22.71	23.50	12.51	12.67	12.53	13.50
DC-HSDPA Subtest-3	22.26	22.21	22.19	23.50	12.20	12.07	12.13	13.50
DC-HSDPA Subtest-4	22.35	22.31	22.28	23.50	12.09	12.14	12.10	13.50
HSUPA Subtest-1	21.04	21.01	21.02	22.50	10.87	10.83	10.86	12.50
HSUPA Subtest-2	20.79	20.77	20.73	22.50	10.68	10.65	10.76	12.50
HSUPA Subtest-3	21.68	21.66	21.64	22.50	11.64	11.69	11.74	12.50
HSUPA Subtest-4	20.69	20.67	20.71	22.50	10.71	10.75	10.69	12.50
HSUPA Subtest-5	21.67	21.64	21.65	22.50	11.68	11.70	11.69	12.50
HSPA+ Subtest-1	21.02	21.03	21.06	22.50	11.04	11.11	11.09	12.50

GSM&WCDMA_DSI 2&3

Band		GSM850_Ant1 (DSI2&3)				GSM850_Ant4 (DSI3)			
Channel	128	189	251	Max. Tune-up Power (dBm)	128	189	251	Max. Tune-up Power (dBm)	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM	32.47	32.34	32.34	33.50	31.47	31.57	31.65	33.00	
GPRS 1Tx Slot	32.32	32.33	32.24	33.50	31.48	31.41	31.58	33.00	
GPRS 2Tx Slot	28.87	28.77	28.82	30.00	27.90	28.09	28.17	29.50	
GPRS 3Tx Slot	27.36	27.37	27.24	28.50	26.34	26.55	26.57	28.00	
GPRS 4Tx Slot	26.12	26.17	26.17	27.50	25.18	25.42	25.47	27.00	
EDGE 1Tx Slot	26.87	27.06	26.97	28.00	26.68	26.74	26.68	28.00	
EDGE 2Tx Slot	23.65	23.81	23.75	25.00	23.53	23.53	23.46	25.00	
EDGE 3Tx Slot	21.89	22.03	22.00	23.20	21.80	21.85	21.80	23.20	
EDGE 4Tx Slot	20.99	21.25	21.24	22.00	21.04	21.02	20.98	22.00	

Source-Based Time-Averaged Power								
Band		GSM850			GSM850			Max. Tune-up Power (dBm)
Channel	128	189	251	Max. Tune-up Power (dBm)	128	189	251	Max. Tune-up Power (dBm)
GSM	23.47	23.34	23.34	24.50	22.47	22.57	22.65	24.00
GPRS 1Tx Slot	23.32	23.33	23.24	24.50	22.48	22.41	22.58	24.00
GPRS 2Tx Slot	22.87	22.77	22.82	24.00	21.90	22.09	22.17	23.50
GPRS 3Tx Slot	23.10	23.11	22.98	24.24	22.08	22.29	22.31	23.74
GPRS 4Tx Slot	23.12	23.17	23.17	24.50	22.18	22.42	22.47	24.00
EDGE 1Tx Slot	17.87	18.06	17.97	19.00	17.66	17.74	17.68	19.00
EDGE 2Tx Slot	17.65	17.81	17.75	19.00	17.53	17.53	17.46	19.00
EDGE 3Tx Slot	17.63	17.77	17.74	18.94	17.54	17.59	17.54	18.94
EDGE 4Tx Slot	17.99	18.25	18.24	19.00	18.04	18.02	17.98	19.00

Band		WCDMA II_Ant1 (DSI2&3)			WCDMA II_Ant4 (DSI3)			WCDMA II_Ant5 (DSI3)	
TX Channel	9262	9400	9538	Max. Tune-up Power (dBm)	9262	9400	9538	Max. Tune-up Power (dBm)	
Rx Channel	9662	9800	9938		9662	9800	9938		
Frequency (MHz)	1852.4	1880	1907.6		1852.4	1880	1907.6		
RMC 12.2K	20.49	20.44	20.37	21.50	17.69	17.64	17.67	19.00	
DC-HSDPA Subtest-1	19.56	19.50	19.53	20.00	16.72	16.76	16.65	17.50	
DC-HSDPA Subtest-2	19.39	19.42	19.56	20.00	16.84	16.69	16.77	17.50	
DC-HSDPA Subtest-3	18.98	19.09	19.07	20.00	16.26	16.20	16.30	17.50	
DC-HSDPA Subtest-4	19.10	18.99	18.99	20.00	16.21	16.13	16.16	17.50	
DC-HSDPA Subtest-5	19.52	19.50	19.52	20.00	16.84	16.76	16.81	17.50	
DC-HSDPA Subtest-6	19.31	19.46	19.47	20.00	16.82	16.79	16.75	17.50	
DC-HSDPA Subtest-7	19.09	19.08	19.00	20.00	16.31	16.34	16.29	17.50	
DC-HSDPA Subtest-8	19.05	19.00	19.04	20.00	16.21	16.28	16.26	17.50	
HSUPA Subtest-1	17.61	17.68	17.76	19.00	15.14	15.04	15.13	16.50	
HSUPA Subtest-2	17.50	17.42	17.45	19.00	14.84	14.84	14.92	16.50	
HSUPA Subtest-3	16.29	16.30	16.37	19.00	15.74	15.73	15.82	16.50	
HSUPA Subtest-4	17.43	17.37	17.42	19.00	14.88	14.89	14.79	16.50	
HSUPA Subtest-5	16.48	16.38	16.37	19.00	15.98	15.84	15.77	16.50	
HSPA+ Subtest-1	17.69	17.75	17.75	19.00	15.18	15.19	15.17	16.50	

Band		WCDMA V_Ant1 (DSI2&3)			WCDMA V	WCDMA V_Ant4 (DSI3)			WCDMA V
TX Channel	4132	4182	4233	Max. Tune-up Power (dBm)	4132	4182	4233	Max. Tune-up Power (dBm)	
Rx Channel	4357	4407	4458		4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6		826.4	836.4	846.6		
RMC 12.2K	23.92	23.84	23.89	25.00	23.01	22.96	23.04	24.50	
HSDPA Subtest-1	23.09	23.05	23.01	23.50	22.13	22.15	22.20	23.00	
HSDPA Subtest-2	23.07	23.01	23.04	23.50	22.11	22.13	22.19	23.00	
HSDPA Subtest-3	22.53	22.58	22.55	23.50	21.70	21.60	21.59	23.00	
HSDPA Subtest-4	22.57	22.54	22.51	23.50	21.71	21.63	21.62	23.00	
DC-HSDPA Subtest-1	23.07	23.02	23.09	23.50	22.03	22.18	22.17	23.00	
DC-HSDPA Subtest-2	22.91	22.96	22.95	23.50	21.99	22.13	22.08	23.00	
DC-HSDPA Subtest-3	22.59	22.57	22.53	23.50	21.64	21.71	21.67	23.00	
DC-HSDPA Subtest-4	22.54	22.51	22.49	23.50	21.65	21.72	21.70	23.00	
HSUPA Subtest-1	21.19	21.14	21.15	22.50	20.25	20.25	20.22	22.00	
HSUPA Subtest-2	20.93	20.96	20.93	22.50	20.07	20.14	20.08	22.00	
HSUPA Subtest-3	21.72	21.77	21.80	22.50	21.01	20.90	20.99	22.00	
HSUPA Subtest-4	20.53	20.51	20.52	22.50	20.12	20.05	20.06	22.00	
HSUPA Subtest-5	21.87	21.81	21.83	22.50	20.97	21.02	21.00	22.00	
HSPA+ Subtest-1	21.07	21.02	21.09	22.50	20.20	20.11	20.14	22.00	

Band	GSM1900_Ant1 (DSI2&3)				GSM1900_Ant4 (DSI3)			
Channel	512	661	810	Max. Tune-up Power	512	661	810	Max. Tune-up Power
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM	29.40	29.49	29.70	30.50	27.30	27.27	27.44	28.50
GPRS 1Tx Slot	29.40	29.61	29.54	30.50	27.26	27.35	27.21	28.50
GPRS 2Tx Slot	25.74	25.86	25.81	26.70	23.51	23.59	23.57	24.70
GPRS 3Tx Slot	23.90	23.99	24.17	25.00	21.73	21.92	21.90	23.00
GPRS 4Tx Slot	22.93	23.04	23.19	24.00	20.67	20.80	20.96	22.00
EDGE 1Tx Slot	25.77	25.83	25.64	27.00	25.52	25.66	25.69	27.00
EDGE 2Tx Slot	22.58	22.65	22.64	24.00	22.45	22.66	22.61	24.00
EDGE 3Tx Slot	20.82	20.84	20.99	22.20	20.69	20.78	20.83	22.20
EDGE 4Tx Slot	19.91	19.71	19.67	21.00	19.78	19.66	19.74	21.00

Source-Based Time-Averaged Power								
Band		GSM1900			GSM1900			Max. Tune-up Power (dBm)
Channel	512	661	810	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
GSM	20.40	20.49	20.70	21.50	18.30	18.27	18.44	19.50
GPRS 1Tx Slot	20.40	20.61	20.54	21.50	18.26	18.35	18.21	19.50
GPRS 2Tx Slot	19.74	19.86	19.81	20.70	17.51	17.59	17.57	18.70
GPRS 3Tx Slot	19.64	19.73	19.91	20.74	17.47	17.66	17.64	18.74
GPRS 4Tx Slot	19.93	20.04	20.19	21.00	17.67	17.80	17.96	19.00
EDGE 1Tx Slot	16.77	16.83	16.64	18.00	16.52	16.66	16.69	18.00
EDGE 2Tx Slot	16.58	16.65	16.64	18.00	16.45	16.66	16.61	18.00
EDGE 3Tx Slot	16.56	16.58	16.73	17.94	16.43	16.52	16.57	17.94
EDGE 4Tx Slot	16.91	16.71	16.67	18.00	16.78	16.66	16.74	18.00

Band	WCDMA IV_Ant1 (DS12&3)			WCDMA IV_Ant4 (DS13)	WCDMA IV_Ant4 (DS13)			WCDMA IV_Ant4 (DS13)
TX Channel	1312	1413	1513	Max. Tune-up Power	1312	1413	1513	Max. Tune-up Power
Rx Channel	1537	1638	1738	(dBm)	1537	1638	1738	(dBm)
Frequency (MHz)	1712.4	1732.6	1752.6		1712.4	1732.6	1752.6	
RMC 12.2K	21.33	21.25	21.37	22.50	16.12	16.07	16.18	17.50
HSDPA Subtest-1	20.38	20.32	20.45	21.00	15.15	15.17	15.21	16.00
HSDPA Subtest-2	20.40	20.38	20.28	21.00	15.24	15.23	15.26	16.00
HSDPA Subtest-3	19.88	19.86	19.80	21.00	14.76	14.73	14.74	16.00
HSDPA Subtest-4	19.89	19.84	19.95	21.00	14.64	14.65	14.72	16.00
DC-HSDPA Subtest-1	20.42	20.42	20.37	21.00	15.19	15.14	15.24	16.00
DC-HSDPA Subtest-2	20.31	20.39	20.26	21.00	15.18	15.16	15.17	16.00
DC-HSDPA Subtest-3	19.64	19.69	19.62	21.00	14.69	14.67	14.72	16.00
DC-HSDPA Subtest-4	19.90	19.98	19.92	21.00	14.67	14.66	14.78	16.00
HSUPA Subtest-1	18.63	18.58	18.61	20.00	13.44	13.48	13.44	15.00
HSUPA Subtest-2	18.37	18.41	18.31	20.00	13.29	13.25	13.38	15.00
HSUPA Subtest-3	19.25	19.34	19.22	20.00	14.28	14.30	14.43	15.00
HSUPA Subtest-4	18.25	18.33	18.27	20.00	13.36	13.27	13.34	15.00
HSUPA Subtest-5	19.26	19.30	19.27	20.00	14.28	14.21	14.23	15.00
HSPA+ Subtest-1	18.64	18.71	18.66	20.00	13.69	13.67	13.63	15.00

GSM&WCDMA_DSI 4

Band		GSM850_Ant1 (DS14)				GSM850_Ant4 (DS14)			
Channel	128	189	251	Max. Tune-up Power (dBm)	128	189	251	Max. Tune-up Power (dBm)	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM	32.47	32.34	32.34	33.50	32.03	32.20	32.24	33.50	
GPRS 1Tx Slot	32.32	32.33	32.24	33.50	31.99	32.06	32.12	33.50	
GPRS 2Tx Slot	28.87	28.77	28.82	30.00	28.49	28.65	28.72	30.00	
GPRS 3Tx Slot	27.36	27.37	27.24	28.50	26.97	27.06	27.10	28.50	
GPRS 4Tx Slot	26.12	26.17	26.17	27.50	25.83	25.93	26.08	27.50	
EDGE 1Tx Slot	26.87	27.06	26.97	28.00	26.69	26.79	26.89	28.00	
EDGE 2Tx Slot	23.65	23.81	23.75	25.00	23.55	23.64	23.49	25.00	
EDGE 3Tx Slot	21.89	22.03	22.00	23.20	21.89	21.90	21.63	23.20	
EDGE 4Tx Slot	20.99	21.25	21.24	22.00	21.14	21.11	20.99	22.00	

Source-Based Time-Averaged Power								
Band		GSM850			GSM850			Max. Tune-up Power (dBm)
Channel	128	189	251	Max. Tune-up Power (dBm)	128	189	251	Max. Tune-up Power (dBm)
GSM	23.47	23.34	23.34	24.50	23.03	23.20	23.24	24.50
GPRS 1Tx Slot	23.32	23.33	23.24	24.50	22.99	23.06	23.12	24.50
GPRS 2Tx Slot	22.87	22.77	22.82	24.00	22.49	22.65	22.72	24.00
GPRS 3Tx Slot	23.10	23.11	22.98	24.24	22.71	22.80	22.84	24.24
GPRS 4Tx Slot	23.12	23.17	23.17	24.50	22.83	22.93	23.08	24.50
EDGE 1Tx Slot	17.87	18.06	17.97	19.00	17.69	17.79	17.69	19.00
EDGE 2Tx Slot	17.65	17.81	17.75	19.00	17.55	17.64	17.49	19.00
EDGE 3Tx Slot	17.63	17.77	17.74	18.94	17.63	17.64	17.37	18.94
EDGE 4Tx Slot	17.99	18.25	18.24	19.00	18.14	18.11	17.99	19.00

Band		WCDMA II_Ant1 (DS14)			WCDMA II_Ant4 (DS14)			WCDMA II_Ant5 (DS14)			
Tx Channel	9262	9400	9538	Max. Tune-up Power (dBm)	9262	9400	9538	Max. Tune-up Power (dBm)	9262	9400	9538
Rx Channel	9662	9800	9938		9662	9800	9938		9662	9800	9938
Frequency (MHz)	1852.4	1880	1907.6		1852.4	1880	1907.6		1852.4	1880	1907.6
RMC 12.2K	23.79	23.70	23.72	25.00	23.35	23.30	23.34	25.00	23.35	23.30	23.34
HSDPA Subtest-1	22.87	22.85	22.86	23.50	22.49	22.42	22.44	23.50	22.49	22.42	22.44
HSDPA Subtest-2	22.69	22.74	22.81	23.50	22.48	22.45	22.47	23.50	22.48	22.45	22.47
HSDPA Subtest-3	22.35	22.39	22.35	23.50	21.99	21.98	21.96	23.50	21.99	21.98	21.96
HSDPA Subtest-4	22.35	22.36	22.32	23.50	21.87	21.86	21.93	23.50	21.87	21.86	21.93
DC-HSDPA Subtest-1	22.85	22.88	22.84	23.50	22.55	22.45	22.47	23.50	22.55	22.45	22.47
DC-HSDPA Subtest-2	22.66	22.79	22.77	23.50	22.46	22.47	22.45	23.50	22.46	22.47	22.45
DC-HSDPA Subtest-3	22.39	22.34	22.38	23.50	22.03	22.09	22.01	23.50	22.03	22.09	22.01
DC-HSDPA Subtest-4	22.30	22.30	22.36	23.50	21.91	21.95	21.98	23.50	21.91	21.95	21.98
HSUPA Subtest-1	20.99	21.04	21.02	22.50	20.78	20.76	20.79	22.50	20.78	20.76	20.79
HSUPA Subtest-2	20.74	20.78	20.82	22.50	20.62	20.58	20.59	22.50	20.62	20.58	20.59
HSUPA Subtest-3	21.60	21.64	21.66	22.50	21.45	21.41	21.46	22.50	21.45	21.41	21.46
HSUPA Subtest-4	20.70	20.66	20.72	22.50	20.66	20.58	20.55	22.50	20.66	20.58	20.55
HSUPA Subtest-5	21.72	21.75	21.69	22.50	21.62	21.56	21.51	22.50	21.62	21.56	21.51
HSPA+ Subtest-1	21.00	21.04	21.02	22.50	20.91	20.88	20.83	22.50	20.91	20.88	20.83

Band		WCDMA V_Ant1 (DS14)			WCDMA V	WCDMA V_Ant4 (DS14)			WCDMA V
Tx Channel	4132	4182	4233		Max. Tune-up Power	4132	4182	4233	Max. Tune-up Power
Rx Channel	4357	4407	4458		(dBm)	4357	4407	4458	(dBm)
Frequency (MHz)	826.4	836.4	846.6		(dBm)	826.4	836.4	846.6	(dBm)
RMC 12.2K	23.92	23.84	23.89		25.00	23.50	23.46	23.51	25.00
HSDPA Subtest-1	23.09	23.05	23.01		23.50	22.63	22.65	22.63	23.50
HSDPA Subtest-2	23.07	23.01	23.04		23.50	22.59	22.61	22.68	23.50
HSDPA Subtest-3	22.53	22.58	22.55		23.50	22.15	22.13	22.15	23.50
HSDPA Subtest-4	22.57	22.54	22.51		23.50	22.17	22.15	22.19	23.50
DC-HSDPA Subtest-1	23.07	23.02	23.09		23.50	22.60	22.63	22.60	23.50
DC-HSDPA Subtest-2	22.91	22.96	22.95		23.50	22.53	22.59	22.55	23.50
DC-HSDPA Subtest-3	22.59	22.57	22.53		23.50	22.16	22.14	22.13	23.50
DC-HSDPA Subtest-4	22.54	22.51	22.49		23.50	22.19	22.17	22.19	23.50
HSUPA Subtest-1	21.19	21.14	21.15		22.50	20.75	20.78	20.77	22.50
HSUPA Subtest-2	20.93	20.96	20.93		22.50	20.50	20.57	20.55	22.50
HSUPA Subtest-3	21.72	21.77	21.80		22.50	21.49	21.44	21.52	22.50
HSUPA Subtest-4	20.53	20.51	20.52		22.50	20.54	20.52	20.56	22.50
HSUPA Subtest-5	21.67	21.81	21.83		22.50	21.43	21.47	21.50	22.50
HSPA+ Subtest-1	21.07	21.02	21.09		22.50	20.71	20.68	20.70	22.50

Band	GSM1900_Ant1 (DS14)				GSM1900_Ant4 (DS14)			
Channel	512	661	810	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM	29.40	29.49	29.70	30.50	29.26	29.25	29.37	30.50
GPRS 1Tx Slot	29.40	29.61	29.54	30.50	29.25	29.35	29.21	30.50
GPRS 2Tx Slot	25.74	25.86	25.81	26.70	25.51	25.53	25.56	26.70
GPRS 3Tx Slot	23.90	23.99	24.17	25.00	23.70	23.88	23.89	25.00
GPRS 4Tx Slot	22.93	23.04	23.19	24.00	22.64	22.83	22.96	24.00
EDGE 1Tx Slot	25.77	25.83	25.64	27.00	25.46	25.63	25.71	27.00
EDGE 2Tx Slot	22.58	22.65	22.64	24.00	22.41	22.68	22.62	24.00
EDGE 3Tx Slot	20.82	20.84	20.99	22.20	20.73	20.74	20.85	22.20
EDGE 4Tx Slot	19.91	19.71	19.67	21.00	19.70	19.62	19.65	21.00

Source-Based Time-Averaged Power								
Band		GSM1900			GSM1900			Max. Tune-up Power (dBm)
Channel	512	661	810	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
GSM	20.40	20.49	20.70	21.50	20.26	20.25	20.37	21.50
GPRS 1Tx Slot	20.40	20.61	20.54	21.50	20.25	20.35	20.21	21.50
GPRS 2Tx Slot	19.74	19.86	19.81	20.70	19.51	19.53	19.56	20.70
GPRS 3Tx Slot	19.64	19.73	19.91	20.74	19.44	19.62	19.63	20.74
GPRS 4Tx Slot	19.93	20.04	20.19	21.00	19.64	19.83	19.96	21.00
EDGE 1Tx Slot	16.77	16.83	16.64	18.00	16.46	16.63	16.71	18.00
EDGE 2Tx Slot	16.58	16.65	16.64	18.00	16.41	16.68	16.62	18.00
EDGE 3Tx Slot	16.56	16.58	16.73	17.94	16.47	16.48	16.59	17.94
EDGE 4Tx Slot	16.91	16.71	16.67	18.00	16.70	16.62	16.65	18.00

Band	WCDMA IV Ant1 (DS14)			WCDMA IV	WCDMA IV Ant4 (DS14)			WCDMA IV
TX Channel	1312	1413	1513	Max. Tune-up Power	1312	1413	1513	Max. Tune-up Power
Rx Channel	1537	1638	1738	(dBm)	1537	1638	1738	(dBm)
Frequency (MHz)	1712.4	1732.6	1752.6		1712.4	1732.6	1752.6	
RMC 12.2K	23.70	23.69	23.72	25.00	20.16	20.19	20.26	22.00
HSDPA Subtest-1	22.63	22.80	22.78	23.50	19.29	19.29	19.31	20.50
HSDPA Subtest-2	22.74	22.77	22.72	23.50	19.37	19.35	19.37	20.50
HSDPA Subtest-3	22.25	22.26	22.24	23.50	18.87	18.80	18.90	20.50
HSDPA Subtest-4	22.31	22.29	22.27	23.50	18.81	18.79	18.88	20.50
DC-HSDPA Subtest-1	22.84	22.82	22.80	23.50	19.35	19.35	19.28	20.50
DC-HSDPA Subtest-2	22.70	22.74	22.71	23.50	19.33	19.36	19.36	20.50
DC-HSDPA Subtest-3	22.26	22.21	22.19	23.50	18.95	18.81	18.83	20.50
DC-HSDPA Subtest-4	22.35	22.31	22.28	23.50	18.79	18.82	18.80	20.50
HSUPA Subtest-1	21.04	21.01	21.02	22.50	17.78	17.81	17.70	19.50
HSUPA Subtest-2	20.79	20.77	20.73	22.50	17.54	17.65	17.61	19.50
HSUPA Subtest-3	21.68	21.66	21.64	22.50	18.56	18.52	18.62	19.50
HSUPA Subtest-4	20.69	20.67	20.71	22.50	17.59	17.60	17.65	19.50
HSUPA Subtest-5	21.67	21.64	21.65	22.50	18.50	18.50	18.50	19.50
HSPA+ Subtest-1	21.02	21.03	21.06	22.50	17.90	17.95	17.94	19.50

GSM&WCDMA_DSI 5

Band	GSM850_Ant1 (DSIS)				GSM850_Ant4 (DSIS)			
Channel	128	189	251	Max. Tune-up Power (dBm)	128	189	251	Max. Tune-up Power (dBm)
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM	32.47	32.34	32.34	33.50	30.93	31.12	31.15	32.50
GPRS 1Tx Slot	32.32	32.33	32.24	33.50	30.88	31.04	31.08	32.50
GPRS 2Tx Slot	28.87	28.77	28.82	30.00	27.47	27.56	27.57	29.00
GPRS 3Tx Slot	27.36	27.37	27.24	28.50	25.84	25.92	25.98	27.50
GPRS 4Tx Slot	26.12	26.17	26.17	27.50	24.79	24.83	25.03	26.50
EDGE 1Tx Slot	26.87	27.06	26.97	28.00	25.62	25.65	25.67	27.00
EDGE 2Tx Slot	23.65	23.81	23.75	25.00	22.45	22.61	22.41	24.00
EDGE 3Tx Slot	21.89	22.03	22.00	23.20	20.79	20.79	20.54	22.20
EDGE 4Tx Slot	20.99	21.25	21.24	22.00	20.04	20.03	19.93	21.00

Source-Based Time-Averaged Power								
Band	GSM850				GSM850			
Channel	128	189	251	Max. Tune-up Power (dBm)	128	189	251	Max. Tune-up Power (dBm)
GSM	23.47	23.34	23.34	24.50	21.93	22.12	22.15	23.50
GPRS 1Tx Slot	23.32	23.33	23.24	24.50	21.88	22.04	22.08	23.50
GPRS 2Tx Slot	22.87	22.77	22.82	24.00	21.47	21.56	21.57	23.00
GPRS 3Tx Slot	23.10	23.11	22.98	24.24	21.58	21.66	21.72	23.24
GPRS 4Tx Slot	23.12	23.17	23.17	24.50	21.79	21.83	22.03	23.50
EDGE 1Tx Slot	17.87	18.06	17.97	19.00	16.62	16.65	16.67	18.00
EDGE 2Tx Slot	17.05	17.81	17.75	19.00	16.45	16.61	16.41	18.00
EDGE 3Tx Slot	17.63	17.77	17.74	18.94	16.53	16.53	16.28	17.94
EDGE 4Tx Slot	17.99	18.25	18.24	19.00	17.04	17.03	16.93	18.00

Band	WCDMA II_Ant1 (DSIS)			WCDMA II	WCDMA II_Ant4 (DSIS)			WCDMA II
TX Channel	9262	9400	9538	Max. Tune-up Power (dBm)	9262	9400	9538	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		9662	9800	9938	
Frequency (MHz)	1852.4	1880	1907.6		1852.4	1880	1907.6	
RMC 12.2K	20.49	20.44	20.37	21.50	17.07	17.02	16.98	18.50
HSDPA Subtest-1	19.56	19.50	19.53	20.00	16.23	16.17	16.19	17.00
HSDPA Subtest-2	19.39	19.42	19.56	20.00	16.15	16.17	16.17	17.00
HSDPA Subtest-3	18.98	19.09	19.07	20.00	15.73	15.69	15.66	17.00
HSDPA Subtest-4	19.10	18.99	18.99	20.00	15.56	15.62	15.60	17.00
DC-HSDPA Subtest-1	19.52	19.50	19.52	20.00	16.23	16.18	16.14	17.00
DC-HSDPA Subtest-2	19.31	19.48	19.47	20.00	16.09	16.14	16.20	17.00
DC-HSDPA Subtest-3	19.09	19.08	19.00	20.00	15.66	15.61	15.73	17.00
DC-HSDPA Subtest-4	19.05	19.00	19.04	20.00	15.54	15.63	15.67	17.00
HSUPA Subtest-1	17.61	17.68	17.76	19.00	14.46	14.50	14.49	16.00
HSUPA Subtest-2	17.50	17.42	17.45	19.00	14.27	14.24	14.35	16.00
HSUPA Subtest-3	18.29	18.30	18.37	19.00	15.14	15.09	15.22	16.00
HSUPA Subtest-4	17.43	17.37	17.42	19.00	14.40	14.23	14.21	16.00
HSUPA Subtest-5	18.48	18.38	18.37	19.00	15.34	15.26	15.24	16.00
HSPA+ Subtest-1	17.69	17.75	17.75	19.00	14.63	14.55	14.53	16.00

Band	WCDMA V_Ant1 (DSIS)			WCDMA V	WCDMA V_Ant4 (DSIS)			WCDMA V
TX Channel	4132	4182	4233	Max. Tune-up Power (dBm)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	4357	4407	4458		4357	4407	4458	
Frequency (MHz)	826.4	836.4	846.6		826.4	836.4	846.6	
RMC 12.2K	23.92	23.84	23.89	25.00	21.53	21.52	21.57	23.00
HSDPA Subtest-1	23.09	23.05	23.01	23.50	20.72	20.64	20.68	21.50
HSDPA Subtest-2	23.07	23.01	23.04	23.50	20.71	20.61	20.71	21.50
HSDPA Subtest-3	22.53	22.58	22.55	23.50	20.14	20.17	20.18	21.50
HSDPA Subtest-4	22.57	22.54	22.51	23.50	20.25	20.21	20.22	21.50
DC-HSDPA Subtest-1	23.07	23.02	23.09	23.50	20.68	20.74	20.59	21.50
DC-HSDPA Subtest-2	22.91	22.96	22.95	23.50	20.58	20.58	20.57	21.50
DC-HSDPA Subtest-3	22.59	22.57	22.53	23.50	20.18	20.20	20.12	21.50
DC-HSDPA Subtest-4	22.54	22.51	22.49	23.50	20.17	20.16	20.17	21.50
HSUPA Subtest-1	21.19	21.14	21.15	22.50	18.80	18.86	18.83	20.50
HSUPA Subtest-2	20.93	20.96	20.93	22.50	18.51	18.62	18.62	20.50
HSUPA Subtest-3	21.72	21.77	21.80	22.50	19.48	19.49	19.59	20.50
HSUPA Subtest-4	20.53	20.51	20.52	22.50	18.63	18.58	18.55	20.50
HSUPA Subtest-5	21.87	21.81	21.83	22.50	19.51	19.51	19.48	20.50
HSPA+ Subtest-1	21.07	21.02	21.09	22.50	18.76	18.78	18.76	20.50

Band	GSM1900_Ant1 (DSIS)				GSM1900_Ant4 (DSIS)			
Channel	512	661	810	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM	29.40	29.49	29.70	30.50	26.22	26.10	26.26	27.50
GPRS 1Tx Slot	29.40	29.61	29.54	30.50	26.18	26.21	26.19	27.50
GPRS 2Tx Slot	25.74	25.86	25.81	26.70	22.42	22.48	22.48	23.70
GPRS 3Tx Slot	23.90	23.99	24.17	25.00	20.63	20.86	20.75	22.00
GPRS 4Tx Slot	22.93	23.04	23.19	24.00	19.60	19.81	19.88	21.00
EDGE 1Tx Slot	25.77	25.83	25.64	27.00	25.45	25.49	25.68	27.00
EDGE 2Tx Slot	22.58	22.65	22.64	24.00	22.32	22.66	22.59	24.00
EDGE 3Tx Slot	20.82	20.84	20.99	22.20	20.70	20.71	20.71	22.20
EDGE 4Tx Slot	19.91	19.71	19.67	21.00	19.55	19.53	19.61	21.00

Source-Based Time-Averaged Power								
Band	GSM1900				GSM1900			
Channel	512	661	810	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
GSM	20.40	20.49	20.70	21.50	17.22	17.10	17.26	18.50
GPRS 1Tx Slot	20.40	20.61	20.54	21.50	17.18	17.21	17.19	18.50
GPRS 2Tx Slot	19.74	19.86	19.81	20.70	16.42	16.48	16.48	17.70
GPRS 3Tx Slot	19.64	19.73	19.91	20.74	16.37	16.60	16.49	17.74
GPRS 4Tx Slot	19.93	20.04	20.19	21.00	16.60	16.81	16.88	18.00
EDGE 1Tx Slot	16.77	16.83	16.64	18.00	16.45	16.49	16.68	18.00
EDGE 2Tx Slot	16.58	16.65	16.64	18.00	16.32	16.66	16.59	18.00
EDGE 3Tx Slot	16.56	16.58	16.73	17.94	16.44	16.45	16.45	17.94
EDGE 4Tx Slot	16.91	16.71	16.67	18.00	16.55	16.53	16.61	18.00

Band	WCDMA IV_Ant1 (DSIS)			WCDMA IV	WCDMA IV_Ant4 (DSIS)			WCDMA IV
TX Channel	1312	1413	1513	Max. Tune-up Power (dBm)	1312	1413	1513	Max. Tune-up Power (dBm)
Rx Channel	1537	1638	1738		1537	1638	1738	
Frequency (MHz)	1712.4	1732.6	1752.6		1712.4	1732.6	1752.6	
RMC 12.2K	21.33	21.25	21.37	22.50	13.37	13.45	13.49	15.00
HSDPA Subtest-1	20.38	20.32	20.45	21.00	12.64	12.51	12.65	13.50
HSDPA Subtest-2	20.40	20.38	20.28	21.00	12.80	12.63	12.66	13.50
HSDPA Subtest-3	19.88	19.86	19.80	21.00	12.10	12.11	12.10	13.50
HSDPA Subtest-4	19.89	19.84	19.95	21.00	12.02	12.13	12.16	13.50
DC-HSDPA Subtest-1	20.42	20.42	20.37	21.00	12.63	12.52	12.64	13.50
DC-HSDPA Subtest-2	20.31	20.39	20.26	21.00	12.51	12.67	12.53	13.50
DC-HSDPA Subtest-3	19.64	19.69	19.62	21.00	12.20	12.07	12.13	13.50
DC-HSDPA Subtest-4	19.90	19.98	19.92	21.00	12.09	12.14	12.10	13.50
HSUPA Subtest-1	18.63	18.58	18.61	20.00	10.87	10.83	10.86	12.50
HSUPA Subtest-2	18.37	18.41	18.31	20.00	10.68	10.65	10.76	12.50
HSUPA Subtest-3	19.25	19.34	19.22	20.00	11.64	11.69	11.74	12.50
HSUPA Subtest-4	18.25	18.33	18.27	20.00	10.71	10.75	10.69	12.50
HSUPA Subtest-5	19.26	19.30	19.27	20.00	11.68	11.70	11.69	12.50
HSPA+ Subtest-1	18.64	18.71	18.66	20.00	11.04	11.11	11.09	12.50

LTE_Default

LTE Band 2 Ant1													
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP	Max.					
		Channel	Frequency (MHz)	1870	1890	1910	MPR (dB)	Tune-up (dBm)					
20M	QPSK	1	0	24.13	24.05	24.10	0	25.5					
			1	50	24.35	24.41	24.32	0	25.5				
			1	99	24.05	23.91	23.97	0	25.5				
			50	0	23.28	23.27	23.18	1	24.5				
			50	25	23.36	23.39	23.30	1	24.5				
			50	50	23.32	23.18	23.15	1	24.5				
		100	0	23.36	23.38	23.25	1	24.5					
			1	0	23.39	23.32	23.36	1	24.5				
			1	50	23.71	23.70	23.71	1	24.5				
			1	99	23.38	23.35	23.32	1	24.5				
			50	0	22.43	22.32	22.23	2	23.5				
			50	25	22.37	22.37	22.30	2	23.5				
	16QAM	1	0	23.34	23.27	23.29	2	23.5					
			1	0	22.37	22.24	22.36	2	23.5				
			1	50	22.68	22.63	22.61	2	23.5				
			1	99	22.27	22.25	22.15	2	23.5				
			50	0	21.28	21.25	21.21	3	22.5				
			50	25	21.42	21.40	21.28	3	22.5				
		64QAM	50	0	21.44	21.20	21.10	3	22.5				
				1	0	21.39	21.24	21.17	3	22.5			
				15M	QPSK	1	0	24.07	23.93	23.95	0	25.5	
							1	37	24.33	24.37	24.26	0	25.5
							1	74	24.00	23.78	23.94	0	25.5
							36	0	23.25	23.23	23.08	1	24.5
36	19	23.38	23.30				23.19	1	24.5				
36	39	23.27	23.08				23.06	1	24.5				
75	0	23.31	23.30			23.16	1	24.5					
	1	0	23.32			23.41	23.24	1	24.5				
	1	37	23.68			23.63	23.59	1	24.5				
	1	74	23.29			23.24	23.30	1	24.5				
	36	0	22.32			22.22	22.17	2	23.5				
	36	19	22.36			22.31	22.20	2	23.5				
16QAM	1	0	22.24		22.21	22.13	2	23.5					
		1	37		22.60	22.53	22.58	2	23.5				
		1	74		22.12	22.13	22.11	2	23.5				
		36	0		21.22	21.20	21.16	3	22.5				
		36	19		21.38	21.32	21.14	3	22.5				
		36	39		21.33	21.14	20.96	3	22.5				
	75	0	21.28		21.19	21.09	3	22.5					
		1	0		21.29	21.19	21.09	3	22.5				
		10M	QPSK		1	0	24.08	23.93	24.06	0	25.5		
						1	24	24.22	24.29	24.19	0	25.5	
						1	49	23.90	23.88	23.88	0	25.5	
						25	0	23.17	23.24	23.13	1	24.5	
25	12			23.30		23.24	23.24	1	24.5				
25	25			23.33		23.06	23.13	1	24.5				
50	0			23.31	23.33	23.21	1	24.5					
	1			0	23.27	23.49	23.28	1	24.5				
	1			24	23.59	23.68	23.61	1	24.5				
	1			49	23.29	23.32	23.23	1	24.5				
	25			0	22.36	22.27	22.10	2	23.5				
	25			12	22.36	22.34	22.26	2	23.5				
16QAM	1		0	22.35	22.45	22.18	2	23.5					
			50	0	22.30	22.16	22.24	2	23.5				
			1	0	22.25	22.14	22.34	2	23.5				
			1	24	22.56	22.57	22.51	2	23.5				
			1	49	22.13	22.24	22.03	2	23.5				
			25	0	21.22	21.10	21.07	3	22.5				
	64QAM		25	0	21.31	21.25	21.24	3	22.5				
				25	25	21.31	21.16	20.95	3	22.5			
				50	0	21.32	21.18	21.15	3	22.5			
				5M	QPSK	1	0	24.03	23.92	24.08	0	25.5	
							1	12	24.31	24.26	24.24	0	25.5
							1	24	24.01	23.76	23.93	0	25.5
12	0	23.17	23.20				23.12	1	24.5				
12	6	23.35	23.22				23.15	1	24.5				
12	13	23.32	23.13				23.06	1	24.5				
25	0	23.34	23.23			23.19	1	24.5					
	1	0	23.28			23.45	23.28	1	24.5				
	1	12	23.64			23.65	23.69	1	24.5				
	1	24	23.32			23.21	23.31	1	24.5				
	12	0	22.29			22.28	22.10	2	23.5				
	12	6	22.32			22.34	22.26	2	23.5				
16QAM	1	0	22.41		22.23	22.14	2	23.5					
		12	13		22.41	22.23	22.14	2	23.5				
		25	0		22.28	22.19	22.27	2	23.5				
		1	0		22.31	22.23	22.21	2	23.5				
		1	12		22.65	22.60	22.55	2	23.5				
		1	24		22.22	22.22	22.02	2	23.5				
	64QAM	12	0		21.21	21.19	21.06	3	22.5				
			12		6	21.32	21.38	21.23	3	22.5			
			12		13	21.40	21.16	20.97	3	22.5			
			25		0	21.32	21.18	21.06	3	22.5			
			25		0	21.32	21.18	21.06	3	22.5			
			25		0	21.32	21.18	21.06	3	22.5			
3M	QPSK	1	0	24.08	23.99	23.96	0	25.5					
			1	7	24.20	24.26	24.31	0	25.5				
			1	14	23.95	23.83	23.91	0	25.5				
			8	0	23.24	23.14	23.03	1	24.5				
			8	3	23.26	23.22	23.17	1	24.5				
			8	7	23.21	23.16	23.13	1	24.5				
		15	0	23.21	23.36	23.11	1	24.5					
			1	0	23.30	23.46	23.27	1	24.5				
			1	7	23.68	23.60	23.58	1	24.5				
			1	14	23.25	23.29	23.19	1	24.5				
			8	0	22.28	22.17	22.17	2	23.5				
			8	3	22.26	22.28	22.20	2	23.5				
	16QAM	8	7	22.46	22.23	22.14	2	23.5					
			15	0	22.20	22.19	22.21	2	23.5				
			1	0	22.28	22.18	22.30	2	23.5				
			1	7	22.62	22.57	22.59	2	23.5				
			1	14	22.12	22.13	22.05	2	23.5				
			8	0	21.17	21.16	21.12	3	22.5				
		64QAM	8	3	21.39	21.31	21.21	3	22.5				
				8	7	21.35	21.17	21.09	3	22.5			
				15	0	21.38	21.23	21.07	3	22.5			
				1.4M	QPSK	1	0	24.02	23.94	23.84	0	25.5	
							1	2	24.29	24.09	24.12	0	25.5
							1	5	23.77	23.82	23.81	0	25.5
3	0	23.90	24.01				23.80	0	25.5				
3	1	23.88	23.99				23.91	0	25.5				
3	3	24.00	23.85				23.77	0	25.5				
6	0	23.12	23.16			23.00	1	24.5					
	1	0	23.32			23.26	23.16	1	24.5				
	1	2	23.58			23.47	23.53	1	24.5				
	16QAM	1	5			23.14	23.22	23.09	1	24.5			
			3			0	22.90	22.98	22.85	1	24.5		
			3			1	23.06	23.05	22.88	1	24.5		
3			3		23.06	22.86	22.76	1	24.5				
6			0		22.24	22.17	21.98	2	23.5				
1			0		22.19	22.05	22.02	2	23.5				
64QAM		1	2		22.47	22.50	22.34	2	23.5				
			1		5	22.12	22.06	21.97	2	23.5			
			3		0	21.92	21.86	21.87	2	23.5			
			3		1	22.15	22.01	21.99	2	23.5			
			6		0	21.97	21.98	21.85	2	23.5			
			6		0	21.07	21.07	20.93	3	22.5			

LTE_Default

LTE Band 4 Ant1									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP	Max. Tunes-up (dBm)	
		Channel	Frequency (MHz)	20950	20175	20300	MPR (dB)		
20M	QPSK	1	0	24.16	24.12	24.11	0	25.5	
		1	50	24.42	24.51	24.45	0	25.5	
		1	99	24.20	24.18	24.08	0	25.5	
		50	0	23.43	23.36	23.35	1	24.5	
		50	25	23.45	23.55	23.46	1	24.5	
		50	50	23.44	23.47	23.33	1	24.5	
		100	0	23.48	23.49	23.32	1	24.5	
		1	0	23.45	23.42	23.44	1	24.5	
	16QAM	1	50	23.77	23.70	23.75	1	24.5	
		1	99	23.50	23.42	23.32	1	24.5	
		50	0	22.37	22.40	22.46	2	23.5	
		50	25	22.58	22.51	22.49	2	23.5	
		50	50	22.48	22.59	22.40	2	23.5	
		100	0	22.42	22.51	22.29	2	23.5	
		1	0	22.50	22.36	22.31	2	23.5	
		1	50	22.66	22.64	22.58	2	23.5	
3M	QPSK	1	99	22.48	22.39	22.32	2	23.5	
		50	0	21.43	21.44	21.43	3	22.5	
		50	25	21.51	21.51	21.38	3	22.5	
		50	50	21.53	21.54	21.35	3	22.5	
		100	0	21.53	21.51	21.39	3	22.5	
		16QAM	1	0	23.35	23.34	23.35	1	24.5
			1	37	23.71	23.63	23.74	1	24.5
			1	74	23.41	23.27	23.29	1	24.5
	36		0	22.32	22.34	22.31	2	23.5	
	36		19	22.43	22.45	22.44	2	23.5	
	36		39	22.44	22.46	22.28	2	23.5	
	75		0	22.33	22.47	22.26	2	23.5	
	1		0	22.49	22.29	22.30	2	23.5	
	64QAM	1	37	22.60	22.59	22.46	2	23.5	
		1	74	22.39	22.26	22.21	2	23.5	
		36	0	21.30	21.32	21.38	3	22.5	
36		19	21.48	21.40	21.31	3	22.5		
36		39	21.41	21.44	21.33	3	22.5		
75		0	21.46	21.38	21.28	3	22.5		
5M		QPSK	1	0	24.14	24.08	24.07	0	25.5
			1	7	24.39	24.47	24.34	0	25.5
	1		37	24.13	24.13	24.09	0	25.5	
	25		0	23.40	23.25	23.28	1	24.5	
	25		12	23.38	23.51	23.40	1	24.5	
	25		25	23.38	23.43	23.28	1	24.5	
	50		0	23.42	23.30	23.19	1	24.5	
	1		0	23.31	23.39	23.35	1	24.5	
	16QAM	1	24	23.62	23.58	23.71	1	24.5	
		1	49	23.40	23.37	23.26	1	24.5	
		25	0	22.35	22.36	22.40	2	23.5	
		25	12	22.53	22.39	22.32	2	23.5	
		25	25	22.39	22.49	22.38	2	23.5	
		50	0	22.37	22.38	22.25	2	23.5	
		1	0	22.47	22.29	22.23	2	23.5	
		1	24	22.58	22.55	22.55	2	23.5	
1.4M	QPSK	1	49	22.34	22.34	22.30	2	23.5	
		25	0	21.41	21.34	21.42	3	22.5	
		25	12	21.48	21.36	21.30	3	22.5	
		25	25	21.46	21.44	21.32	3	22.5	
		50	0	21.41	21.50	21.24	3	22.5	
		16QAM	1	0	22.47	22.29	22.23	2	23.5
			1	24	22.58	22.55	22.55	2	23.5
			1	49	22.34	22.34	22.30	2	23.5
	25		0	21.41	21.34	21.42	3	22.5	
	25		12	21.48	21.36	21.30	3	22.5	
	25		25	21.46	21.44	21.32	3	22.5	
	50		0	21.41	21.50	21.24	3	22.5	
	BW		Modulation	Channel	19975	19975	20375	3GPP	Max. Tunes-up
		Frequency (MHz)		1712.5	1732.5	1782.5	MPR (dB)	(dBm)	
		1		0	24.06	24.06	24.07	0	25.5
		1		12	24.32	24.42	24.33	0	25.5
1		24		24.07	24.02	24.00	0	25.5	
12		0		23.42	23.24	23.20	1	24.5	
12		6		23.34	23.41	23.39	1	24.5	
25		0		23.40	23.30	23.30	1	24.5	
QPSK		1	0	23.39	23.28	23.29	1	24.5	
		1	12	23.74	23.69	23.65	1	24.5	
		1	24	23.43	23.29	23.22	1	24.5	
		12	0	22.35	22.25	22.31	2	23.5	
		12	6	22.45	22.48	22.42	2	23.5	
		12	13	22.47	22.55	22.34	2	23.5	
		25	0	22.30	22.21	22.14	2	23.5	
		25	12	22.43	22.26	22.17	2	23.5	
16QAM	1	12	22.52	22.55	22.43	2	23.5		
	1	24	22.36	22.34	22.31	2	23.5		
	12	0	21.32	21.30	21.31	3	22.5		
	12	6	21.42	21.40	21.31	3	22.5		
	12	13	21.42	21.53	21.25	3	22.5		
	25	0	21.39	21.45	21.37	3	22.5		
	25	0	21.49	21.50	21.31	3	22.5		
	3M	Modulation	Channel	19965	19965	20365	3GPP	Max. Tunes-up	
Frequency (MHz)			1711.5	1732.5	1783.5	MPR (dB)	(dBm)		
1			0	24.14	23.98	24.04	0	25.5	
1			7	24.39	24.36	24.34	0	25.5	
1			14	24.07	24.05	24.06	0	25.5	
8			0	23.31	23.21	23.26	1	24.5	
8			3	23.33	23.40	23.36	1	24.5	
8			7	23.36	23.33	23.23	1	24.5	
QPSK		15	0	23.39	23.39	23.23	1	24.5	
		1	0	23.42	23.40	23.39	1	24.5	
		1	7	23.62	23.64	23.75	1	24.5	
		1	14	23.48	23.38	23.28	1	24.5	
		8	0	22.29	22.29	22.33	2	23.5	
		8	3	22.56	22.41	22.39	2	23.5	
		8	7	22.44	22.49	22.25	2	23.5	
		15	0	22.31	22.46	22.26	2	23.5	
BW	Modulation	Channel	19967	19967	20367	3GPP	Max. Tunes-up		
		Frequency (MHz)	1711.7	1732.5	1783.5	MPR (dB)	(dBm)		
		1	0	24.05	23.99	24.02	0	25.5	
		1	2	24.38	24.47	24.38	0	25.5	
		1	5	24.01	23.95	24.08	0	25.5	
		3	0	24.14	24.18	24.24	0	25.5	
		3	1	24.27	24.23	24.26	0	25.5	
		3	3	24.20	24.22	24.06	0	25.5	
	QPSK	6	0	23.30	23.30	23.26	1	24.5	
		1	0	23.41	23.27	23.23	1	24.5	
		1	2	23.61	23.60	23.71	1	24.5	
		1	5	23.46	23.30	23.33	1	24.5	
		3	0	23.23	23.14	23.12	1	24.5	
		3	1	23.26	23.28	23.09	1	24.5	
		3	3	23.14	23.37	23.20	1	24.5	
		6	0	22.50	22.37	22.33	2	23.5	
1.4M	QPSK	1	0	22.34	22.36	22.18	2	23.5	
		1	2	22.64	22.63	22.50	2	23.5	
		1	5	22.34	22.41	22.25	2	23.5	
		3	0	22.27	22.14	22.20	2	23.5	
		3	1	22.20	22.28	22.24	2	23.5	
		3	3	22.20	22.25	22.06	2	23.5	
		6	0	21.36	21.44	21.26	3	22.5	
		6	0	21.36	21.44	21.26	3	22.5	
	16QAM	1	0	22.13	22.22	22.15	2	23.5	
		1	2	22.64	22.63	22.56	2	23.5	
		1	5	22.34	22.41	22.25	2	23.5	
		3	0	22.27	22.14	22.20	2	23.5	
		3	1	22.20	22.28	22.24	2	23.5	
		3	3	22.20	22.25	22.06	2	23.5	
		6	0	21.36	21.44	21.26	3	22.5	
		6	0	21.36	21.44	21.26	3	22.5	

LTE_Default

LTE Band 5_Ant1										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel		20450	20525	20600				
		Frequency (MHz)		829	836.5	844				
10M	QPSK	1	0	24.42	24.39	24.32	0	25.5		
		1	24	24.49	24.45	24.60	0	25.5		
		1	49	24.28	24.30	24.42	0	25.5		
		25	0	23.43	23.40	23.43	1	24.5		
		25	12	23.45	23.42	23.47	1	24.5		
		25	25	23.38	23.36	23.31	1	24.5		
		50	0	23.37	23.41	23.43	1	24.5		
		1	0	23.60	23.58	23.60	1	24.5		
	16QAM	1	24	23.76	23.71	23.78	1	24.5		
		1	49	23.57	23.57	23.60	1	24.5		
		25	0	22.44	22.51	22.62	2	23.5		
		25	12	22.48	22.58	22.54	2	23.5		
		25	25	22.45	22.46	22.56	2	23.5		
		50	0	22.47	22.55	22.37	2	23.5		
		1	0	22.51	22.62	22.51	2	23.5		
		1	24	22.72	22.64	22.57	2	23.5		
	64QAM	1	49	22.61	22.62	22.77	2	23.5		
		25	0	21.49	21.52	21.62	3	22.5		
		25	12	21.46	21.54	21.51	3	22.5		
		25	25	21.57	21.52	21.53	3	22.5		
		50	0	21.53	21.46	21.47	3	22.5		
		BW	Modulation	Channel	20425	20525	20625	3GPP MPR (dB)	Max. Tune-up (dBm)	
				Frequency (MHz)	826.5	836.5	846.5			
			QPSK	1	0	24.26	24.26	24.21	0	25.5
1	12			24.43	24.37	24.46	0	25.5		
1	24			24.24	24.17	24.35	0	25.5		
12	0			23.34	23.33	23.43	1	24.5		
12	6			23.25	23.32	23.32	1	24.5		
12	13			23.31	23.31	23.30	1	24.5		
25	0			23.31	23.28	23.37	1	24.5		
1	0			23.58	23.57	23.50	1	24.5		
16QAM	1		12	23.71	23.65	23.67	1	24.5		
	1		24	23.56	23.51	23.53	1	24.5		
	12		0	22.42	22.39	22.51	2	23.5		
	12		6	22.46	22.55	22.47	2	23.5		
	12		13	22.39	22.41	22.44	2	23.5		
	25		0	22.34	22.48	22.32	2	23.5		
	1	0	22.36	22.54	22.43	2	23.5			
	1	12	22.69	22.59	22.43	2	23.5			
64QAM	1	24	22.57	22.48	22.68	2	23.5			
	12	0	21.45	21.51	21.60	3	22.5			
	12	6	21.32	21.52	21.45	3	22.5			
	12	13	21.44	21.37	21.48	3	22.5			
	25	0	21.49	21.43	21.39	3	22.5			
	BW	Modulation	Channel	20415	20525	20635	3GPP MPR (dB)	Max. Tune-up (dBm)		
			Frequency (MHz)	825.5	836.5	847.5				
		QPSK	1	0	24.19	24.29	24.27	0	25.5	
1			7	24.40	24.32	24.58	0	25.5		
1			14	24.18	24.23	24.36	0	25.5		
8			0	23.29	23.39	23.35	1	24.5		
8			3	23.25	23.42	23.38	1	24.5		
8			7	23.34	23.27	23.25	1	24.5		
15			0	23.31	23.30	23.42	1	24.5		
1			0	23.56	23.47	23.56	1	24.5		
16QAM		1	7	23.67	23.65	23.69	1	24.5		
		1	14	23.47	23.48	23.46	1	24.5		
		8	0	22.43	22.48	22.51	2	23.5		
		8	3	22.39	22.47	22.47	2	23.5		
		8	7	22.32	22.38	22.48	2	23.5		
		15	0	22.40	22.45	22.22	2	23.5		
	1	0	22.45	22.53	22.37	2	23.5			
	1	7	22.68	22.59	22.53	2	23.5			
64QAM	1	14	22.48	22.48	22.74	2	23.5			
	8	0	21.38	21.50	21.47	3	22.5			
	8	3	21.40	21.46	21.36	3	22.5			
	8	7	21.55	21.41	21.45	3	22.5			
	15	0	21.41	21.38	21.38	3	22.5			
	BW	Modulation	Channel	20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)		
			Frequency (MHz)	824.7	836.5	848.3				
		QPSK	1	0	24.32	24.21	24.36	0	25.5	
1			2	24.39	24.29	24.45	0	25.5		
1			5	24.13	24.24	24.14	0	25.5		
3			0	24.19	24.21	24.21	0	25.5		
3			1	24.13	24.21	24.18	0	25.5		
3			3	24.26	24.19	24.13	0	25.5		
6			0	23.34	23.36	23.37	1	24.5		
1			0	23.45	23.60	23.55	1	24.5		
16QAM		1	2	23.67	23.64	23.75	1	24.5		
		1	5	23.40	23.51	23.52	1	24.5		
		3	0	23.34	23.29	23.34	1	24.5		
		3	1	23.15	23.28	23.32	1	24.5		
		3	3	23.30	23.14	23.21	1	24.5		
		6	0	22.37	22.32	22.35	2	23.5		
	1	0	22.52	22.63	22.45	2	23.5			
	1	2	22.65	22.68	22.46	2	23.5			
64QAM	1	5	22.43	22.51	22.70	2	23.5			
	3	0	22.28	22.22	22.29	2	23.5			
	3	1	22.25	22.22	22.25	2	23.5			
	3	3	22.20	22.26	22.15	2	23.5			
	6	0	21.44	21.33	21.38	3	22.5			
	BW	Modulation	Channel	20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)		
			Frequency (MHz)	824.7	836.5	848.3				

LTE Band 5_Ant4									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		20450	20525	20600			
		Frequency (MHz)		829	836.5	844			
10M	QPSK	1	0	24.32	24.33	24.29	0	25.5	
		1	24	24.45	24.48	24.36	0	25.5	
		1	49	24.27	24.38	24.26	0	25.5	
		25	0	23.45	23.51	23.43	1	24.5	
		25	12	23.38	23.48	23.39	1	24.5	
		25	25	23.36	23.40	23.36	1	24.5	
		50	0	23.44	23.47	23.42	1	24.5	
	16QAM	1	0	23.42	23.58	23.68	1	24.5	
		1	24	23.71	23.62	23.78	1	24.5	
		1	49	23.54	23.53	23.55	1	24.5	
		25	0	22.37	22.41	22.47	2	23.5	
		25	12	22.37	22.54	22.54	2	23.5	
		25	25	22.42	22.38	22.41	2	23.5	
		50	0	22.44	22.45	22.46	2	23.5	
	64QAM	1	0	22.58	22.54	22.63	2	23.5	
		1	24	22.69	22.62	22.66	2	23.5	
		1	49	22.47	22.53	22.51	2	23.5	
		25	0	21.43	21.31	21.42	3	22.5	
		25	12	21.40	21.43	21.44	3	22.5	
		25	25	21.43	21.40	21.45	3	22.5	
		50	0	21.47	21.35	21.45	3	22.5	
BW	Modulation	Channel	20425	20525	20625	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Frequency (MHz)	826.5	836.5	846.5				
5M	QPSK	1	0	24.20	24.27	24.14	0	25.5	
		1	12	24.37	24.34	24.40	0	25.5	
		1	24	24.17	24.32	24.15	0	25.5	
		12	0	23.33	23.38	23.25	1	24.5	
		12	6	23.37	23.35	23.33	1	24.5	
		12	13	23.27	23.26	23.23	1	24.5	
		25	0	23.29	23.31	23.46	1	24.5	
	16QAM	1	0	23.35	23.56	23.54	1	24.5	
		1	12	23.68	23.48	23.75	1	24.5	
		1	24	23.52	23.46	23.47	1	24.5	
		12	0	22.34	22.35	22.44	2	23.5	
		12	6	22.26	22.47	22.48	2	23.5	
		12	13	22.41	22.32	22.38	2	23.5	
		25	0	22.32	22.30	22.44	2	23.5	
	64QAM	1	0	22.52	22.47	22.57	2	23.5	
		1	12	22.58	22.60	22.62	2	23.5	
		1	24	22.37	22.46	22.49	2	23.5	
		12	0	21.40	21.30	21.28	3	22.5	
		12	6	21.25	21.36	21.31	3	22.5	
		12	13	21.39	21.37	21.33	3	22.5	
		25	0	21.36	21.21	21.63	3	22.5	
BW	Modulation	Channel	20415	20525	20635	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Frequency (MHz)	825.5	836.5	847.5				
3M	QPSK	1	0	24.31	24.25	24.17	0	25.5	
		1	7	24.38	24.35	24.42	0	25.5	
		1	14	24.25	24.26	24.25	0	25.5	
		8	0	23.44	23.39	23.30	1	24.5	
		8	3	23.30	23.38	23.31	1	24.5	
		8	7	23.27	23.33	23.26	1	24.5	
		15	0	23.38	23.40	23.37	1	24.5	
	16QAM	1	0	23.32	23.44	23.57	1	24.5	
		1	7	23.60	23.57	23.75	1	24.5	
		1	14	23.46	23.43	23.47	1	24.5	
		8	0	22.31	22.39	22.41	2	23.5	
		8	3	22.27	22.52	22.53	2	23.5	
		8	7	22.33	22.31	22.27	2	23.5	
		15	0	22.41	22.43	22.34	2	23.5	
	64QAM	1	0	22.54	22.45	22.60	2	23.5	
1		7	22.60	22.47	22.65	2	23.5		
1		14	22.43	22.52	22.40	2	23.5		
8		0	21.38	21.26	21.37	3	22.5		
8		3	21.37	21.41	21.37	3	22.5		
8		7	21.30	21.32	21.40	3	22.5		
15		0	21.34	21.33	21.38	3	22.5		
BW	Modulation	Channel	20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Frequency (MHz)	824.7	836.5	848.3				
1.4M	QPSK	1	0	24.24	24.23	24.28	0	25.5	
		1	2	24.34	24.31	24.39	0	25.5	
		1	5	24.11	24.28	24.32	0	25.5	
		3	0	24.14	24.11	24.25	0	25.5	
		3	1	24.22	24.18	24.09	0	25.5	
		3	3	24.20	24.07	24.09	0	25.5	
		6	0	23.32	23.29	23.37	1	24.5	
	16QAM	1	0	23.47	23.53	23.61	1	24.5	
		1	2	23.63	23.60	23.75	1	24.5	
		1	5	23.54	23.35	23.40	1	24.5	
		3	0	23.26	23.16	23.27	1	24.5	
		3	1	23.10	23.10	23.30	1	24.5	
		3	3	23.16	23.19	23.19	1	24.5	
		6	0	22.32	22.33	22.47	2	23.5	
	64QAM	1	0	22.54	22.45	22.45	2	23.5	
1		2	22.78	22.45	22.57	2	23.5		
1		5	22.36	22.50	22.41	2	23.5		
3		0	22.15	22.23	22.24	2	23.5		
3		1	22.15	22.20	22.18	2	23.5		
3		3	22.14	22.15	22.08	2	23.5		
6		0	21.35	21.32	21.45	3	22.5		

LTE_Default

LTE Band 7_Ant1								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20850	21100	21350		
		Frequency (MHz)		2510	2535	2560		
20M	QPSK	1	0	24.21	24.28	24.26	0	25.5
		1	50	24.38	24.35	24.48	0	25.5
		1	99	24.15	24.19	24.26	0	25.5
		50	0	23.29	23.44	23.49	1	24.5
		50	25	23.34	23.48	23.52	1	24.5
		50	50	23.26	23.29	23.35	1	24.5
	16QAM	100	0	23.23	23.45	23.49	1	24.5
		1	0	23.24	23.31	23.41	1	24.5
		1	50	23.52	23.63	23.74	1	24.5
		1	99	23.14	23.35	23.41	1	24.5
		50	0	22.17	22.43	22.48	2	23.5
		50	25	22.30	22.44	22.48	2	23.5
	64QAM	50	50	22.27	22.34	22.42	2	23.5
		100	0	22.18	22.37	22.48	2	23.5
		1	0	22.25	22.57	22.38	2	23.5
		1	50	22.46	22.20	22.67	2	23.5
		1	99	22.03	22.45	22.31	2	23.5
		50	0	21.13	21.38	21.47	3	22.5
15M	QPSK	50	25	21.20	21.37	21.47	3	22.5
		50	50	21.21	21.33	21.34	3	22.5
		100	0	21.13	21.31	21.43	3	22.5
	16QAM	Channel		20825	21100	21375	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2507.5	2535	2562.5		
		1	0	24.10	24.27	24.14		
	64QAM	1	37	24.24	24.23	24.37	0	25.5
		1	74	24.05	24.06	24.11	0	25.5
		36	0	23.28	23.41	23.37	1	24.5
10M	QPSK	36	19	23.28	23.43	23.44	1	24.5
		36	39	23.19	23.25	23.20	1	24.5
		75	0	23.09	23.31	23.45	1	24.5
	16QAM	1	0	23.15	23.30	23.40	1	24.5
		1	37	23.43	23.62	23.60	1	24.5
		1	74	23.06	23.23	23.36	1	24.5
	64QAM	36	0	22.02	22.34	22.38	2	23.5
		36	19	22.23	22.39	22.38	2	23.5
		36	39	22.16	22.21	22.32	2	23.5
		75	0	22.08	22.34	22.35	2	23.5
	16QAM	1	0	22.21	22.50	22.25	2	23.5
		1	37	22.36	22.12	22.58	2	23.5
		1	74	21.89	22.39	22.24	2	23.5
	64QAM	36	0	21.05	21.23	21.40	3	22.5
		36	19	21.19	21.35	21.43	3	22.5
		36	39	21.11	21.25	21.31	3	22.5
		75	0	21.04	21.29	21.42	3	22.5
5M	QPSK	Channel		20900	21100	21400	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2505	2535	2565		
		1	0	24.20	24.13	24.21		
	16QAM	1	24	24.37	24.26	24.34	0	25.5
		1	49	24.14	24.10	24.23	0	25.5
		25	0	23.25	23.41	23.38	1	24.5
	64QAM	25	12	23.32	23.36	23.49	1	24.5
		25	25	23.25	23.14	23.26	1	24.5
		50	0	23.08	23.40	23.45	1	24.5
	16QAM	1	0	23.16	23.25	23.40	1	24.5
		1	24	23.45	23.58	23.63	1	24.5
		1	49	23.03	23.32	23.39	1	24.5
	64QAM	25	0	22.02	22.29	22.46	2	23.5
		25	12	22.27	22.29	22.43	2	23.5
		25	25	22.20	22.28	22.27	2	23.5
	16QAM	50	0	22.10	22.26	22.41	2	23.5
		1	0	22.15	22.51	22.25	2	23.5
		1	24	22.42	22.06	22.59	2	23.5
	64QAM	1	49	21.96	22.43	22.19	2	23.5
		25	0	21.02	21.29	21.39	3	22.5
		25	12	21.18	21.28	21.45	3	22.5
		25	25	21.10	21.22	21.33	3	22.5
		50	0	21.06	21.22	21.28	3	22.5
20M	QPSK	Channel		20775	21100	21425	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2502.5	2535	2567.5		
		1	0	24.11	24.27	24.12		
	16QAM	1	12	24.27	24.34	24.40	0	25.5
		1	24	24.00	24.11	24.25	0	25.5
		12	0	23.22	23.43	23.39	1	24.5
	64QAM	12	6	23.25	23.46	23.44	1	24.5
		12	13	23.24	23.25	23.28	1	24.5
		25	0	23.11	23.39	23.48	1	24.5
	16QAM	1	0	23.20	23.18	23.28	1	24.5
		1	12	23.46	23.58	23.59	1	24.5
		1	24	23.09	23.24	23.33	1	24.5
	64QAM	12	0	22.08	22.34	22.35	2	23.5
		12	6	22.21	22.34	22.37	2	23.5
		12	13	22.22	22.27	22.27	2	23.5
		25	0	22.15	22.32	22.38	2	23.5
	16QAM	1	0	22.15	22.54	22.33	2	23.5
		1	12	22.40	22.15	22.60	2	23.5
		1	24	21.92	22.42	22.18	2	23.5
		12	0	21.02	21.26	21.37	3	22.5
		12	6	21.07	21.33	21.44	3	22.5
		12	13	21.08	21.32	21.24	3	22.5
		25	0	21.00	21.17	21.34	3	22.5

LTE Band 7_Ant4								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20850	21100	21350		
		Frequency (MHz)		2510	2535	2560		
20M	QPSK	1	0	24.11	24.12	24.15	0	25.5
		1	50	24.35	24.19	24.18	0	25.5
		1	99	24.21	24.18	24.13	0	25.5
		50	0	23.22	23.27	23.20	1	24.5
		50	25	23.32	23.29	23.23	1	24.5
		50	50	23.20	23.21	23.19	1	24.5
	16QAM	100	0	23.35	23.28	23.21	1	24.5
		1	0	23.14	23.33	23.19	1	24.5
		1	50	23.54	23.43	23.48	1	24.5
		1	99	23.03	23.00	22.98	1	24.5
		50	0	22.20	22.26	22.21	2	23.5
		50	25	22.25	22.20	22.17	2	23.5
	64QAM	50	50	22.21	22.15	22.16	2	23.5
		100	0	22.12	22.19	22.08	2	23.5
		1	0	22.17	22.23	22.08	2	23.5
		1	50	22.35	22.45	22.37	2	23.5
		1	99	21.96	21.98	22.10	2	23.5
		50	0	21.24	21.32	21.16	3	22.5
		50	25	21.29	21.29	21.28	3	22.5
		50	50	21.18	21.09	21.09	3	22.5
		100	0	21.24	21.27	21.12	3	22.5
		Channel		20825	21100	21375	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2507.5	2535	2562.5		
		15M	QPSK	1	0	23.96	24.05	24.01
1	37			24.22	24.10	24.14	0	25.5
1	74			24.18	24.09	24.06	0	25.5
36	0			23.16	23.26	23.18	1	24.5
36	19			23.29	23.27	23.18	1	24.5
36	39			23.06	23.07	23.13	1	24.5
16QAM	75		0	23.21	23.13	23.08	1	24.5
	1		0	23.07	23.28	23.07	1	24.5
	1		37	23.47	23.29	23.46	1	24.5
	1		74	22.97	22.98	22.89	1	24.5
	36		0	22.08	22.18	22.20	2	23.5
	36		19	22.19	22.08	22.02	2	23.5
64QAM	36		39	22.15	22.09	22.08	2	23.5
	75		0	22.03	22.08	22.02	2	23.5
	1		0	22.10	22.13	21.98	2	23.5
	1		37	22.31	22.36	22.27	2	23.5
	1		74	21.82	21.95	22.01	2	23.5
	36		0	21.18	21.24	21.15	3	22.5
	36		19	21.27	21.17	21.26	3	22.5
	36		39	21.10	21.04	21.00	3	22.5
	75		0	21.09	21.14	21.06	3	22.5
	Channel		20800	21100	21400	3GPP MPR (dB)	Max. Tune-up (dBm)	
	Frequency (MHz)		2505	2535	2565			
	10M		QPSK	1	0	24.06	24.07	24.07
1		24		24.32	24.18	24.16	0	25.5
1		49		24.10	24.11	23.99	0	25.5
25		0		23.14	23.22	23.09	1	24.5
25		12		23.31	23.14	23.10	1	24.5
25		25		23.17	23.14	23.12	1	24.5
16QAM		50	0	23.29	23.20	23.09	1	24.5
		1	0	23.12	23.29	23.14	1	24.5
		1	24	23.48	23.41	23.36	1	24.5
		1	49	23.02	22.98	22.96	1	24.5
		25	0	22.13	22.24	22.07	2	23.5
		25	12	22.22	22.07	22.09	2	23.5
64QAM		25	25	22.12	22.08	22.10	2	23.5
		50	0	22.09	22.14	21.97	2	23.5
		1	0	22.06	22.17	21.96	2	23.5
		1	24	22.33	22.31	22.30	2	23.5
		1	49	21.94	21.85	22.07	2	23.5
		25	0	21.15	21.24	21.11	3	22.5
		25	12	21.16	21.28	21.15	3	22.5
		25	25	21.08	20.96	20.96	3	22.5
		50	0	21.18	21.23	21.09	3	22.5
		Channel		20775	21100	21425	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2502.5	2535	2567.5		
		5M	QPSK	1	0	24.02	24.10	24.01
1	12			24.29	24.05	24.13	0	25.5
1	24			24.20	24.13	24.08	0	25.5
12	0			23.10	23.17	23.11	1	24.5
12	6			23.27	23.14	23.20	1	24.5
12	13			23.19	23.19	23.11	1	24.5
16QAM	25		0	23.34	23.21	23.13	1	24.5
	1		0	23.08	23.30	23.09	1	24.5
	1		12	23.46	23.28	23.40	1	24.5
	1		24	22.93	22.91	22.93	1	24.5
	12		0	22.15	22.20	22.09	2	23.5
	12		6	22.16	22.09	22.11	2	23.5
64QAM	12		13	22.09	22.05	22.02	2	23.5
	25		0	22.04	22.14	21.98	2	23.5
	1		0	22.10	22.16	22.00	2	23.5
	1		12	22.29	22.44	22.36	2	23.5
	1		24	21.84	21.93	21.98	2	23.5
	12		0	21.15	21.26	21.01	3	22.5
	12		6	21.16	21.15	21.24	3	22.5
	12		13	21.15	21.01	21.04	3	22.5
	25		0	21.20	21.19	21.08	3	22.5

LTE_Default

LTE Band 13_Ant1										
BW	Modulation	RB Size		RB Offset		Mid	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel								
		Frequency (MHz)		782						
10M	QPSK	1	0			24.48		0	25.5	
		1	24			24.50		0	25.5	
		1	49			24.35		0	25.5	
		25	0			23.52		1	24.5	
		25	12			23.56		1	24.5	
		25	25			23.48		1	24.5	
		50	0			23.53		1	24.5	
		1	0			23.89		1	24.5	
	16QAM	1	24			23.76		1	24.5	
		1	49			23.61		1	24.5	
		25	0			22.61		2	23.5	
		25	12			22.55		2	23.5	
		25	25			22.54		2	23.5	
		50	0			22.48		2	23.5	
		1	0			22.70		2	23.5	
		1	24			22.82		2	23.5	
	64QAM	1	49			22.62		2	23.5	
		25	0			21.58		3	22.5	
		25	12			21.54		3	22.5	
		25	25			21.52		3	22.5	
		50	0			21.48		3	22.5	
		BW	Modulation	Channel		23205	23230	23255	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		779.5	782	784.5				
		5M	QPSK	1	0	24.27	24.36	24.47	0	25.5
1	12			24.39	24.41	24.34	0	25.5		
1	24			24.13	24.28	24.29	0	25.5		
12	0			23.31	23.40	23.37	1	24.5		
12	6			23.48	23.55	23.36	1	24.5		
12	13			23.32	23.36	23.42	1	24.5		
25	0			23.50	23.48	23.39	1	24.5		
1	0			23.74	23.88	23.68	1	24.5		
16QAM	1		12	23.70	23.72	23.66	1	24.5		
	1		24	23.38	23.57	23.46	1	24.5		
	12		0	22.40	22.63	22.44	2	23.5		
	12		6	22.60	22.53	22.59	2	23.5		
	12		13	22.41	22.39	22.41	2	23.5		
	25		0	22.28	22.47	22.26	2	23.5		
	1		0	22.58	22.66	22.65	2	23.5		
	1		12	22.63	22.78	22.59	2	23.5		
64QAM	1		24	22.56	22.48	22.54	2	23.5		
	12		0	21.47	21.62	21.43	3	22.5		
	12		6	21.38	21.42	21.47	3	22.5		
	12		13	21.50	21.50	21.40	3	22.5		
	25		0	21.32	21.46	21.38	3	22.5		

LTE Band 13_Ant4										
BW	Modulation	RB Size		RB Offset	Mid			3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel			23230					
		Frequency (MHz)			782					
10M	QPSK	1	0		24.16			0	25.5	
		1	24		24.25			0	25.5	
		1	49		24.09			0	25.5	
		25	0		23.24			1	24.5	
		25	12		23.29			1	24.5	
		25	25		23.23			1	24.5	
		50	0		23.29			1	24.5	
		50	0		23.39			1	24.5	
	16QAM	1	24		23.63			1	24.5	
		1	49		23.49			1	24.5	
		25	0		22.34			2	23.5	
		25	12		22.28			2	23.5	
		25	25		22.24			2	23.5	
		50	0		22.24			2	23.5	
		1	0		22.44			2	23.5	
		1	24		22.45			2	23.5	
	64QAM	1	49		22.41			2	23.5	
		25	0		21.24			3	22.5	
		25	12		21.32			3	22.5	
		25	25		21.28			3	22.5	
		50	0		21.23			3	22.5	
		BW	Modulation	Channel		23205	23230	23255	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		779.5	782	784.5				
		5M	QPSK	1	0	24.00	24.02	24.08	0	25.5
1	12			24.13	24.17	24.20	0	25.5		
1	24			24.23	24.05	24.03	0	25.5		
12	0			23.22	23.35	23.17	1	24.5		
12	6			23.29	23.29	23.19	1	24.5		
12	13			23.13	23.04	23.20	1	24.5		
25	0			23.18	23.22	23.08	1	24.5		
25	0			23.09	23.36	23.15	1	24.5		
16QAM	1		12	23.53	23.30	23.47	1	24.5		
	1		24	23.01	23.00	22.91	1	24.5		
	12		0	22.07	22.14	22.18	2	23.5		
	12		6	22.15	22.12	22.08	2	23.5		
	12		13	22.19	22.09	22.18	2	23.5		
	25		0	22.00	22.12	22.01	2	23.5		
	25		0	22.16	22.14	21.95	2	23.5		
	1		12	22.40	22.37	22.25	2	23.5		
64QAM	1		24	21.86	21.97	22.02	2	23.5		
	12		0	21.23	21.31	21.23	3	22.5		
	12		6	21.27	21.15	21.22	3	22.5		
	12		13	21.06	21.08	21.01	3	22.5		
	25		0	21.14	21.15	21.06	3	22.5		

LTE_Default

LTE Band 26_Ant1									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		26765	26865	26965			
		Frequency (MHz)		821.5	831.5	841.5			
15M	QPSK	1	0	24.37	24.39	24.46	0	25.5	
		1	37	24.48	24.45	24.52	0	25.5	
		1	74	24.41	24.33	24.44	0	25.5	
		36	0	23.57	23.59	23.52	1	24.5	
		36	19	23.60	23.66	23.69	1	24.5	
		36	39	23.56	23.63	23.56	1	24.5	
		75	0	23.68	23.57	23.58	1	24.5	
		1	0	23.68	23.74	23.80	1	24.5	
	16QAM	1	37	23.72	23.86	23.74	1	24.5	
		1	74	23.71	23.69	23.59	1	24.5	
		36	0	22.56	22.56	22.55	2	23.5	
		36	19	22.59	22.66	22.63	2	23.5	
		36	39	22.61	22.55	22.62	2	23.5	
		75	0	22.56	22.70	22.64	2	23.5	
		1	0	22.73	22.73	22.65	2	23.5	
		1	37	22.82	22.72	22.82	2	23.5	
	64QAM	1	74	22.68	22.69	22.68	2	23.5	
		36	0	21.57	21.66	21.58	3	22.5	
		36	19	21.58	21.68	21.58	3	22.5	
		36	39	21.53	21.56	21.56	3	22.5	
		75	0	21.47	21.67	21.61	3	22.5	
BW	Modulation	Channel		26740	26865	26990	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		819	831.5	844			
10M	QPSK	1	0	24.34	24.37	24.40	0	25.5	
		1	24	24.34	24.40	24.38	0	25.5	
		1	49	24.36	24.25	24.30	0	25.5	
		25	0	23.51	23.47	23.45	1	24.5	
		25	12	23.46	23.56	23.56	1	24.5	
		25	25	23.44	23.52	23.44	1	24.5	
		50	0	23.44	23.42	23.44	1	24.5	
		1	0	23.66	23.59	23.79	1	24.5	
	16QAM	1	24	23.63	23.71	23.65	1	24.5	
		1	49	23.67	23.56	23.46	1	24.5	
		25	0	22.44	22.49	22.53	2	23.5	
		25	12	22.45	22.65	22.61	2	23.5	
		25	25	22.57	22.48	22.59	2	23.5	
		50	0	22.47	22.60	22.63	2	23.5	
		1	0	22.68	22.63	22.59	2	23.5	
		1	24	22.70	22.66	22.74	2	23.5	
	64QAM	1	49	22.54	22.54	22.59	2	23.5	
		25	0	21.53	21.63	21.49	3	22.5	
		25	12	21.47	21.53	21.45	3	22.5	
		25	25	21.43	21.43	21.42	3	22.5	
		50	0	21.38	21.59	21.49	3	22.5	
BW	Modulation	Channel		26715	26865	27015	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		816.5	831.5	846.5			
5M	QPSK	1	0	24.24	24.24	24.32	0	25.5	
		1	12	24.47	24.31	24.45	0	25.5	
		1	24	24.30	24.19	24.34	0	25.5	
		12	0	23.50	23.58	23.42	1	24.5	
		12	6	23.53	23.53	23.60	1	24.5	
		12	13	23.41	23.56	23.54	1	24.5	
		25	0	23.33	23.50	23.49	1	24.5	
		1	0	23.60	23.70	23.67	1	24.5	
	16QAM	1	12	23.71	23.71	23.60	1	24.5	
		1	24	23.68	23.63	23.44	1	24.5	
		12	0	22.43	22.54	22.54	2	23.5	
		12	6	22.51	22.65	22.54	2	23.5	
		12	13	22.51	22.51	22.51	2	23.5	
		25	0	22.52	22.55	22.57	2	23.5	
		1	0	22.65	22.68	22.51	2	23.5	
		1	12	22.79	22.61	22.78	2	23.5	
	64QAM	1	24	22.58	22.59	22.53	2	23.5	
		12	0	21.55	21.51	21.43	3	22.5	
		12	6	21.43	21.64	21.43	3	22.5	
		12	13	21.48	21.53	21.54	3	22.5	
		25	0	21.46	21.59	21.58	3	22.5	
BW	Modulation	Channel		26705	26865	27025	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		815.5	831.5	847.5			
3M	QPSK	1	0	24.29	24.27	24.41	0	25.5	
		1	7	24.42	24.34	24.46	0	25.5	
		1	14	24.30	24.27	24.42	0	25.5	
		8	0	23.47	23.53	23.46	1	24.5	
		8	3	23.57	23.65	23.61	1	24.5	
		8	7	23.54	23.48	23.42	1	24.5	
		15	0	23.40	23.50	23.43	1	24.5	
		1	0	23.62	23.69	23.72	1	24.5	
	16QAM	1	7	23.71	23.77	23.64	1	24.5	
		1	14	23.65	23.54	23.50	1	24.5	
		8	0	22.44	22.45	22.50	2	23.5	
		8	3	22.52	22.54	22.48	2	23.5	
		8	7	22.50	22.40	22.49	2	23.5	
		15	0	22.44	22.61	22.52	2	23.5	
		1	0	22.69	22.65	22.59	2	23.5	
		1	7	22.69	22.62	22.69	2	23.5	
	64QAM	1	14	22.55	22.66	22.64	2	23.5	
		8	0	21.43	21.55	21.43	3	22.5	
		8	3	21.46	21.65	21.52	3	22.5	
		8	7	21.41	21.55	21.48	3	22.5	
		15	0	21.41	21.56	21.50	3	22.5	
BW	Modulation	Channel		26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		814.7	831.5	848.3			
1.4M	QPSK	1	0	24.31	24.32	24.25	0	25.5	
		1	2	24.38	24.42	24.33	0	25.5	
		1	5	24.39	24.41	24.32	0	25.5	
		3	0	24.11	24.18	24.34	0	25.5	
		3	1	24.26	24.39	24.29	0	25.5	
		3	3	24.29	24.26	24.25	0	25.5	
		6	0	23.38	23.56	23.47	1	24.5	
		1	0	23.62	23.59	23.73	1	24.5	
	16QAM	1	2	23.54	23.83	23.65	1	24.5	
		1	5	23.60	23.63	23.51	1	24.5	
		3	0	23.29	23.41	23.29	1	24.5	
		3	1	23.31	23.30	23.32	1	24.5	
		3	3	23.36	23.36	23.30	1	24.5	
		6	0	22.52	22.60	22.59	2	23.5	
		1	0	22.58	22.66	22.51	2	23.5	
		1	2	22.57	22.75	22.78	2	23.5	
	64QAM	1	5	22.52	22.59	22.63	2	23.5	
		3	0	22.15	22.46	22.35	2	23.5	
		3	1	22.33	22.35	22.48	2	23.5	
		3	3	22.28	22.25	22.32	2	23.5	
		6	0	21.44	21.52	21.50	3	22.5	

LTE Band 26_Ant4									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		26765	26865	26965			
		Frequency (MHz)		821.5	831.5	841.5			
15M	QPSK	1	0	24.11	24.18	24.27	0	25.5	
		1	37	24.36	24.34	24.42	0	25.5	
		1	74	24.33	24.28	24.25	0	25.5	
		36	0	23.39	23.30	23.41	1	24.5	
		36	19	23.48	23.43	23.56	1	24.5	
		36	39	23.44	23.38	23.37	1	24.5	
		75	0	23.32	23.31	23.43	1	24.5	
	16QAM	1	0	23.48	23.55	23.65	1	24.5	
		1	37	23.54	23.52	23.69	1	24.5	
		1	74	23.65	23.49	23.61	1	24.5	
		36	0	22.34	22.47	22.49	2	23.5	
		36	19	22.52	22.45	22.46	2	23.5	
		36	39	22.39	22.39	22.28	2	23.5	
		75	0	22.31	22.43	22.53	2	23.5	
	64QAM	1	0	22.41	22.55	22.40	2	23.5	
		1	37	22.65	22.50	22.43	2	23.5	
		1	74	22.55	22.44	22.46	2	23.5	
		36	0	21.23	21.51	21.39	3	22.5	
		36	19	21.27	21.43	21.53	3	22.5	
		36	39	21.37	21.49	21.41	3	22.5	
		75	0	21.36	21.54	21.47	3	22.5	
	BW	Modulation	Channel		26740	26865	26990	3GPP MPR (dB)	Max. Tune-up (dBm)
			Frequency (MHz)		819	831.5	844		
10M	QPSK	1	0	24.08	24.14	24.25	0	25.5	
		1	24	24.28	24.24	24.35	0	25.5	
		1	49	24.24	24.25	24.16	0	25.5	
		25	0	23.25	23.18	23.38	1	24.5	
		25	12	23.37	23.40	23.46	1	24.5	
		25	25	23.32	23.28	23.29	1	24.5	
		50	0	23.17	23.30	23.39	1	24.5	
	16QAM	1	0	23.41	23.40	23.53	1	24.5	
		1	24	23.48	23.37	23.59	1	24.5	
		1	49	23.50	23.38	23.54	1	24.5	
		25	0	22.22	22.38	22.37	2	23.5	
		25	12	22.51	22.30	22.42	2	23.5	
		25	25	22.25	22.34	22.14	2	23.5	
		50	0	22.16	22.31	22.48	2	23.5	
	64QAM	1	0	22.32	22.53	22.28	2	23.5	
		1	24	22.64	22.48	22.34	2	23.5	
		1	49	22.50	22.37	22.39	2	23.5	
		25	0	21.09	21.38	21.27	3	22.5	
		25	12	21.19	21.30	21.51	3	22.5	
		25	25	21.26	21.38	21.28	3	22.5	
		50	0	21.21	21.52	21.37	3	22.5	
	BW	Modulation	Channel		26715	26865	27015	3GPP MPR (dB)	Max. Tune-up (dBm)
			Frequency (MHz)		816.5	831.5	846.5		
5M	QPSK	1	0	23.67	24.07	24.21	0	25.5	
		1	12	24.25	24.23	24.38	0	25.5	
		1	24	24.31	24.23	24.15	0	25.5	
		12	0	23.27	23.27	23.32	1	24.5	
		12	6	23.44	23.30	23.51	1	24.5	
		12	13	23.31	23.25	23.30	1	24.5	
		25	0	23.23	23.19	23.37	1	24.5	
	16QAM	1	0	23.39	23.44	23.52	1	24.5	
		1	12	23.50	23.38	23.62	1	24.5	
		1	24	23.60	23.42	23.50	1	24.5	
		12	0	22.32	22.36	22.45	2	23.5	
		12	6	22.41	22.30	22.41	2	23.5	
		12	13	22.27	22.35	22.18	2	23.5	
		25	0	22.19	22.29	22.48	2	23.5	
	64QAM	1	0	22.30	22.42	22.32	2	23.5	
		1	12	22.57	22.45	22.38	2	23.5	
		1	24	22.44	22.41	22.40	2	23.5	
		12	0	21.20	21.44	21.29	3	22.5	
		12	6	21.25	21.30	21.50	3	22.5	
		12	13	21.30	21.41	21.26	3	22.5	
		25	0	21.23	21.39	21.35	3	22.5	
	BW	Modulation	Channel		26705	26865	27025	3GPP MPR (dB)	Max. Tune-up (dBm)
			Frequency (MHz)		815.5	831.5	847.5		
3M	QPSK	1	0	24.02	24.17	24.26	0	25.5	
		1	7	24.35	24.24	24.29	0	25.5	
		1	14	24.23	24.16	24.22	0	25.5	
		8	0	23.36	23.17	23.35	1	24.5	
		8	3	23.38	23.37	23.45	1	24.5	
		8	7	23.35	23.29	23.35	1	24.5	
		15	0	23.18	23.24	23.42	1	24.5	
	16QAM	1	0	23.47	23.46	23.55	1	24.5	
		1	7	23.50	23.39	23.58	1	24.5	
		1	14	23.56	23.43	23.47	1	24.5	
		8	0	22.23	22.33	22.48	2	23.5	
		8	3	22.51	22.39	22.42	2	23.5	
		8	7	22.35	22.34	22.18	2	23.5	
		15	0	22.22	22.34	22.46	2	23.5	
	64QAM	1	0	22.29	22.40	22.37	2	23.5	
		1	7	22.64	22.35	22.31	2	23.5	
		1	14	22.41	22.31	22.42	2	23.5	
		8	0	21.14	21.36	21.37	3	22.5	
		8	3	21.14	21.42	21.49	3	22.5	
		8	7	21.23	21.35	21.38	3	22.5	
		15	0	21.32	21.46	21.40	3	22.5	
	BW	Modulation	Channel		26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)
			Frequency (MHz)		814.7	831.5	848.3		
1.4M	QPSK	1	0	24.01	24.17	24.18	0	25.5	
		1	2	24.30	24.29	24.32	0	25.5	
		1	5	24.12	24.16	24.21	0	25.5	
		3	0	24.12	24.18	24.06	0	25.5	
		3	1	24.08	24.24	24.12	0	25.5	
		3	3	24.07	24.06	24.26	0	25.5	
		6	0	23.22	23.22	23.34	1	24.5	
	16QAM	1	0	23.38	23.42	23.54	1	24.5	
		1	2	23.46	23.43	23.64	1	24.5	
		1	5	23.41	23.43	23.49	1	24.5	
		3	0	23.10	23.29	23.20	1	24.5	
		3	1	23.19	23.18	23.25	1	24.5	
		3	3	23.16	23.17	23.13	1	24.5	
		6	0	22.14	22.38	22.40	2	23.5	
	64QAM	1	0	22.35	22.31	22.31	2	23.5	
		1	2	22.42	22.51	22.43	2	23.5	
		1	5	22.35	22.41	22.30	2	23.5	
		3	0	22.04	22.20	22.18	2	23.5	
		3	1	22.06	22.30	22.22	2	23.5	
		3	3	22.13	22.10	22.20	2	23.5	
		6	0	21.14	21.30	21.29	3	22.5	

LTE_Default

LTE Band 38_Ant1									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		37850	38000	38150			
		Frequency (MHz)		2580	2595	2610			
20M	QPSK	1	0	24.56	24.49	24.51	0	25.5	
		1	50	24.73	24.70	24.56	0	25.5	
		1	99	24.43	24.45	24.35	0	25.5	
		50	0	23.62	23.56	23.59	1	24.5	
		50	25	23.54	23.52	23.41	1	24.5	
		50	50	23.48	23.44	23.48	1	24.5	
		100	0	23.57	23.56	23.44	1	24.5	
		1	0	23.48	23.49	23.40	1	24.5	
	16QAM	1	50	23.75	23.77	23.62	1	24.5	
		1	99	23.27	23.24	23.22	1	24.5	
		50	0	22.57	22.62	22.47	2	23.5	
		50	25	22.61	22.52	22.44	2	23.5	
		50	50	22.59	22.54	22.41	2	23.5	
		100	0	22.61	22.61	22.42	2	23.5	
		1	0	22.08	22.08	22.12	2	23.5	
		1	50	22.24	22.27	22.17	2	23.5	
	64QAM	1	99	22.12	21.96	22.09	2	23.5	
		50	0	21.61	21.49	21.48	3	22.5	
		50	25	21.60	21.50	21.53	3	22.5	
		50	50	21.60	21.51	21.34	3	22.5	
		100	0	21.47	21.48	21.48	3	22.5	
BW	Modulation	Channel		37825	38000	38175	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		2577.5	2595	2612.5			
		1	0	24.54	24.43	24.46			
15M	QPSK	1	37	24.71	24.58	24.48	0	25.5	
		1	74	24.33	24.43	24.31	0	25.5	
		36	0	23.55	23.47	23.56	1	24.5	
		36	19	23.42	23.44	23.33	1	24.5	
		36	39	23.42	23.39	23.39	1	24.5	
		75	0	23.50	23.44	23.42	1	24.5	
	16QAM	1	0	23.34	23.45	23.25	1	24.5	
		1	37	23.70	23.74	23.50	1	24.5	
		1	74	23.24	23.21	23.14	1	24.5	
		36	0	22.44	22.49	22.39	2	23.5	
		36	19	22.52	22.44	22.40	2	23.5	
		36	39	22.54	22.45	22.36	2	23.5	
		75	0	22.51	22.57	22.31	2	23.5	
	64QAM	1	0	21.95	22.05	22.06	2	23.5	
		1	37	22.17	22.19	22.14	2	23.5	
		1	74	22.01	21.90	22.00	2	23.5	
		36	0	21.56	21.38	21.46	3	22.5	
		36	19	21.45	21.49	21.52	3	22.5	
		36	39	21.48	21.45	21.30	3	22.5	
		75	0	21.34	21.35	21.35	3	22.5	
BW	Modulation	Channel		37800	38000	38200	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		2575	2595	2615			
		1	0	24.42	24.35	24.42	0	25.5	
10M	QPSK	1	24	24.61	24.63	24.52	0	25.5	
		1	49	24.39	24.40	24.34	0	25.5	
		25	0	23.59	23.55	23.57	1	24.5	
		25	12	23.43	23.37	23.33	1	24.5	
		25	25	23.39	23.38	23.40	1	24.5	
		50	0	23.49	23.45	23.39	1	24.5	
	16QAM	1	0	23.45	23.37	23.30	1	24.5	
		1	24	23.74	23.72	23.59	1	24.5	
		1	49	23.16	23.22	23.14	1	24.5	
		25	0	22.45	22.58	22.35	2	23.5	
		25	12	22.59	22.37	22.38	2	23.5	
		25	25	22.53	22.46	22.37	2	23.5	
		50	0	22.46	22.47	22.33	2	23.5	
	64QAM	1	0	22.07	22.05	21.98	2	23.5	
		1	24	22.09	22.20	22.05	2	23.5	
		1	49	22.10	21.87	22.05	2	23.5	
		25	0	21.48	21.40	21.39	3	22.5	
		25	12	21.59	21.36	21.38	3	22.5	
		25	25	21.45	21.43	21.32	3	22.5	
		50	0	21.39	21.44	21.45	3	22.5	
BW	Modulation	Channel		37775	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		2572.5	2595	2617.5			
		1	0	24.42	24.45	24.38	0	25.5	
5M	QPSK	1	12	24.68	24.67	24.52	0	25.5	
		1	24	24.28	24.42	24.29	0	25.5	
		12	0	23.53	23.46	23.49	1	24.5	
		12	6	23.51	23.46	23.40	1	24.5	
		12	13	23.44	23.32	23.40	1	24.5	
		25	0	23.42	23.49	23.30	1	24.5	
	16QAM	1	0	23.39	23.41	23.30	1	24.5	
		1	12	23.62	23.74	23.59	1	24.5	
		1	24	23.21	23.23	23.15	1	24.5	
		12	0	22.45	22.53	22.32	2	23.5	
		12	6	22.52	22.40	22.29	2	23.5	
		12	13	22.53	22.48	22.26	2	23.5	
		25	0	22.54	22.50	22.39	2	23.5	
	64QAM	1	0	22.02	21.95	22.05	2	23.5	
		1	12	22.14	22.20	22.12	2	23.5	
		1	24	22.07	21.94	22.02	2	23.5	
		12	0	21.53	21.38	21.36	3	22.5	
		12	6	21.48	21.46	21.42	3	22.5	
		12	13	21.46	21.37	21.25	3	22.5	
		25	0	21.34	21.35	21.33	3	22.5	

LTE Band 38_Ant4									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		37850	38000	38150			
		Frequency (MHz)		2580	2595	2610			
20M	QPSK	1	0	24.47	24.34	24.32	0	25.5	
		1	50	24.58	24.62	24.51	0	25.5	
		1	99	24.33	24.28	24.27	0	25.5	
		50	0	23.33	23.40	23.39	1	24.5	
		50	25	23.50	23.54	23.47	1	24.5	
		50	50	23.42	23.41	23.37	1	24.5	
		100	0	23.53	23.56	23.51	1	24.5	
	16QAM	1	0	23.42	23.34	23.36	1	24.5	
		1	50	23.56	23.61	23.58	1	24.5	
		1	99	23.23	23.24	23.24	1	24.5	
		50	0	22.56	22.52	22.49	2	23.5	
		50	25	22.53	22.57	22.41	2	23.5	
		50	50	22.38	22.39	22.39	2	23.5	
		100	0	22.40	22.58	22.47	2	23.5	
	64QAM	1	0	22.12	22.05	22.00	2	23.5	
		1	50	22.19	22.26	22.20	2	23.5	
		1	99	22.06	21.95	22.06	2	23.5	
		50	0	21.47	21.39	21.49	3	22.5	
		50	25	21.51	21.43	21.42	3	22.5	
		50	50	21.49	21.38	21.38	3	22.5	
		100	0	21.47	21.52	21.43	3	22.5	
BW	Modulation	Channel		37825	38000	38175	3GPP MPR (dB)	Max. Tune-up (dBm)	
Frequency (MHz)		2577.5	2595	2612.5					
15M	QPSK	1	0	24.35	24.24	24.23	0	25.5	
		1	37	24.47	24.49	24.37	0	25.5	
		1	74	24.31	24.16	24.18	0	25.5	
		36	0	23.26	23.29	23.29	1	24.5	
		36	19	23.38	23.45	23.37	1	24.5	
		36	39	23.28	23.36	23.24	1	24.5	
		75	0	23.43	23.46	23.44	1	24.5	
	16QAM	1	0	23.37	23.21	23.24	1	24.5	
		1	37	23.42	23.50	23.43	1	24.5	
		1	74	23.15	23.12	23.09	1	24.5	
		36	0	22.47	22.42	22.40	2	23.5	
		36	19	22.49	22.48	22.39	2	23.5	
		36	39	22.24	22.38	22.28	2	23.5	
		75	0	22.26	22.48	22.44	2	23.5	
	64QAM	1	0	22.09	21.90	21.95	2	23.5	
		1	37	22.08	22.22	22.10	2	23.5	
		1	74	21.94	21.93	22.00	2	23.5	
		36	0	21.36	21.31	21.46	3	22.5	
		36	19	21.41	21.31	21.39	3	22.5	
		36	39	21.42	21.35	21.27	3	22.5	
		75	0	21.43	21.41	21.29	3	22.5	
BW	Modulation	Channel		37800	38000	38200	3GPP MPR (dB)	Max. Tune-up (dBm)	
Frequency (MHz)		2575	2595	2615					
10M	QPSK	1	0	24.39	24.19	24.31	0	25.5	
		1	24	24.54	24.52	24.43	0	25.5	
		1	49	24.19	24.23	24.16	0	25.5	
		25	0	23.31	23.25	23.36	1	24.5	
		25	12	23.35	23.49	23.33	1	24.5	
		25	25	23.39	23.31	23.29	1	24.5	
		50	0	23.38	23.50	23.50	1	24.5	
	16QAM	1	0	23.30	23.24	23.26	1	24.5	
		1	24	23.54	23.49	23.43	1	24.5	
		1	49	23.19	23.18	23.19	1	24.5	
		25	0	22.51	22.38	22.40	2	23.5	
		25	12	22.41	22.42	22.33	2	23.5	
		25	25	22.27	22.37	22.25	2	23.5	
		50	0	22.32	22.51	22.40	2	23.5	
	64QAM	1	0	22.11	21.92	21.93	2	23.5	
		1	24	22.06	22.17	22.19	2	23.5	
		1	49	22.05	21.85	21.96	2	23.5	
		25	0	21.44	21.27	21.42	3	22.5	
		25	12	21.44	21.40	21.40	3	22.5	
		25	25	21.44	21.35	21.33	3	22.5	
		50	0	21.42	21.40	21.42	3	22.5	
BW	Modulation	Channel		3777.5	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)	
Frequency (MHz)		2572.5	2595	2617.5					
5M	QPSK	1	0	24.39	24.27	24.17	0	25.5	
		1	12	24.55	24.48	24.42	0	25.5	
		1	24	24.24	24.19	24.14	0	25.5	
		12	0	23.20	23.31	23.29	1	24.5	
		12	6	23.41	23.39	23.39	1	24.5	
		12	13	23.33	23.37	23.28	1	24.5	
		25	0	23.39	23.53	23.49	1	24.5	
	16QAM	1	0	23.35	23.30	23.32	1	24.5	
		1	12	23.54	23.60	23.44	1	24.5	
		1	24	23.19	23.10	23.15	1	24.5	
		12	0	22.48	22.49	22.39	2	23.5	
		12	6	22.44	22.54	22.30	2	23.5	
		12	13	22.34	22.34	22.24	2	23.5	
		25	0	22.39	22.47	22.39	2	23.5	
	64QAM	1	0	22.11	21.91	21.91	2	23.5	
		1	12	22.16	22.20	22.18	2	23.5	
		1	24	21.95	21.81	21.94	2	23.5	
		12	0	21.40	21.32	21.35	3	22.5	
		12	6	21.49	21.29	21.40	3	22.5	
		12	13	21.42	21.35	21.33	3	22.5	
		25	0	21.34	21.49	21.37	3	22.5	

LTE_Default

LTE Band 41_Ant1										
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		39750	40185	40620	41055	41490		
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680		
20M	QPSK	1	0	24.31	24.47	24.52	24.27	24.24	0	25.5
		1	50	24.50	24.66	24.76	24.49	24.42	0	25.5
		1	99	24.21	24.37	24.32	24.14	24.28	0	25.5
		50	0	23.31	23.39	23.42	23.37	23.26	1	24.5
		50	25	23.38	23.43	23.55	23.38	23.32	1	24.5
		50	50	23.32	23.35	23.40	23.31	23.24	1	24.5
	16QAM	100	0	23.24	23.55	23.61	23.44	23.36	1	24.5
		1	0	23.38	23.48	23.49	23.19	23.16	1	24.5
		1	50	23.51	23.70	23.70	23.48	23.36	1	24.5
		1	99	23.05	23.26	23.35	23.06	23.21	1	24.5
		50	0	22.20	22.47	22.65	22.47	22.41	2	23.5
		50	25	22.29	22.52	22.59	22.53	22.36	2	23.5
	64QAM	50	50	22.25	22.41	22.68	22.34	22.42	2	23.5
		100	0	22.34	22.53	22.63	22.41	22.36	2	23.5
		1	0	21.95	21.92	22.01	22.01	21.9	2	23.5
		1	50	22.09	22.16	22.23	22.09	21.96	2	23.5
		1	99	21.97	21.97	22.01	21.92	22.08	2	23.5
		50	0	21.34	21.53	21.59	21.38	21.17	3	22.5
15M	QPSK	50	25	21.27	21.45	21.64	21.42	21.39	3	22.5
		50	50	21.28	21.41	21.58	21.42	21.23	3	22.5
		100	0	21.30	21.55	21.54	21.36	21.25	3	22.5
	16QAM	Channel		39725	40173	40620	41068	41515	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5		
		1	0	24.26	24.41	24.51	24.18	24.19	0	25.5
		1	37	24.44	24.64	24.75	24.47	24.32	0	25.5
		1	74	24.17	24.22	24.20	24.08	24.23	0	25.5
		36	0	23.27	23.28	23.28	23.36	23.12	1	24.5
	64QAM	36	19	23.36	23.37	23.43	23.31	23.25	1	24.5
		36	39	23.27	23.25	23.26	23.2	23.18	1	24.5
		75	0	23.12	23.43	23.55	23.42	23.28	1	24.5
		1	0	23.23	23.36	23.34	23.14	23.13	1	24.5
		1	37	23.47	23.55	23.55	23.42	23.31	1	24.5
		1	74	22.93	23.12	23.34	22.97	23.12	1	24.5
10M	QPSK	36	0	22.13	22.41	22.54	22.33	22.36	2	23.5
		36	19	22.27	22.48	22.46	22.48	22.21	2	23.5
		36	39	22.23	22.40	22.53	22.21	22.37	2	23.5
		75	0	22.22	22.49	22.61	22.35	22.21	2	23.5
	16QAM	1	0	21.87	21.83	22.00	22	21.86	2	23.5
		1	37	22.07	22.04	22.16	21.99	21.81	2	23.5
		1	74	21.85	21.93	22.00	21.78	21.94	2	23.5
		36	0	21.32	21.49	21.49	21.34	21.1	3	22.5
		36	19	21.19	21.35	21.49	21.28	21.27	3	22.5
		36	39	21.18	21.40	21.49	21.34	21.21	3	22.5
5M	QPSK	75	0	21.21	21.45	21.39	21.24	21.15	3	22.5
		Channel		39700	40160	40620	41080	41540	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2501	2547	2593	2639	2685		
		1	0	24.26	24.35	24.44	24.25	24.12	0	25.5
		1	24	24.40	24.63	24.65	24.44	24.29	0	25.5
		1	49	24.18	24.32	24.23	24.01	24.2	0	25.5
	16QAM	25	0	23.30	23.35	23.36	23.31	23.17	1	24.5
		25	12	23.23	23.34	23.50	23.31	23.19	1	24.5
		25	25	23.18	23.28	23.27	23.28	23.23	1	24.5
		50	0	23.13	23.42	23.56	23.36	23.22	1	24.5
		1	0	23.36	23.34	23.40	23.16	23.13	1	24.5
		1	24	23.48	23.64	23.61	23.42	23.26	1	24.5
20M	QPSK	1	49	23.03	23.24	23.23	23.05	23.1	1	24.5
		25	0	22.18	22.32	22.59	22.4	22.28	2	23.5
		25	12	22.20	22.50	22.55	22.39	22.33	2	23.5
		25	25	22.12	22.38	22.55	22.22	22.36	2	23.5
		50	0	22.31	22.43	22.49	22.26	22.34	2	23.5
		1	0	21.82	21.90	22.00	21.96	21.87	2	23.5
	16QAM	1	24	21.97	22.10	22.16	21.95	21.89	2	23.5
		1	49	21.91	21.89	21.98	21.83	21.95	2	23.5
		25	0	21.28	21.39	21.47	21.28	21.1	3	22.5
		25	12	21.21	21.33	21.62	21.31	21.24	3	22.5
		25	25	21.14	21.40	21.57	21.33	21.15	3	22.5
		50	0	21.27	21.45	21.53	21.32	21.18	3	22.5
10M	QPSK	Channel		39675	40148	40620	41093	41565	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5		
		1	0	24.22	24.45	24.44	24.13	24.19	0	25.5
		1	12	24.46	24.58	24.71	24.43	24.39	0	25.5
		1	24	24.17	24.24	24.29	24.05	24.17	0	25.5
		12	0	23.30	23.26	23.36	23.36	23.24	1	24.5
	16QAM	12	6	23.34	23.37	23.48	23.37	23.18	1	24.5
		12	13	23.20	23.20	23.28	23.19	23.13	1	24.5
		25	0	23.15	23.51	23.58	23.39	23.34	1	24.5
		1	0	23.25	23.39	23.45	23.17	23.14	1	24.5
		1	12	23.45	23.60	23.64	23.33	23.33	1	24.5
		1	24	22.98	23.21	23.23	22.96	23.12	1	24.5
5M	QPSK	12	0	22.16	22.41	22.54	22.43	22.37	2	23.5
		12	6	22.15	22.45	22.46	22.38	22.22	2	23.5
		12	13	22.14	22.37	22.62	22.26	22.38	2	23.5
		25	0	22.19	22.52	22.51	22.36	22.29	2	23.5
		1	0	21.83	21.83	21.94	21.88	21.82	2	23.5
		1	12	22.04	22.01	22.09	21.96	21.85	2	23.5
	16QAM	1	24	21.94	21.95	21.87	21.9	22.03	2	23.5
		12	0	21.24	21.51	21.55	21.24	21.15	3	22.5
		12	6	21.14	21.44	21.63	21.29	21.3	3	22.5
		12	13	21.21	21.38	21.45	21.28	21.19	3	22.5
		25	0	21.17	21.50	21.50	21.31	21.22	3	22.5
		25	0	21.17	21.50	21.50	21.31	21.22	3	22.5

LTE Band 41_Ant4										
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		39750	40185	40620	41055	41490		
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680		
20M	QPSK	1	0	24.12	24.14	24.10	24.16	24.07	0	25.5
		1	50	24.31	24.26	24.42	24.19	24.20	0	25.5
		1	99	24.06	24.11	24.16	24.12	24.04	0	25.5
		50	0	23.20	23.10	23.20	23.13	22.99	1	24.5
		50	25	23.25	23.19	23.27	23.21	23.17	1	24.5
		50	50	23.19	23.15	23.18	23.16	23.04	1	24.5
	16QAM	100	0	23.26	23.21	23.32	23.17	23.12	1	24.5
		1	0	23.16	23.08	23.26	23.18	23.11	1	24.5
		1	50	23.36	23.39	23.48	23.21	23.22	1	24.5
		1	99	22.94	22.97	22.99	22.93	23.02	1	24.5
		50	0	22.27	22.24	22.35	22.13	22.16	2	23.5
		50	25	22.25	22.13	22.31	22.29	22.23	2	23.5
15M	QPSK	50	50	22.17	22.12	22.29	22.16	22.17	2	23.5
		100	0	22.28	22.22	22.31	22.14	22.17	2	23.5
	16QAM	1	0	21.81	21.83	22.08	21.95	21.86	2	23.5
		1	50	22.04	21.96	21.97	21.93	22.38	2	23.5
		1	99	21.79	21.80	21.79	21.84	21.84	2	23.5
		50	0	21.08	21.19	21.33	21.20	21.03	3	22.5
	64QAM	50	25	21.19	21.16	21.29	21.24	21.09	3	22.5
		50	50	21.15	21.22	21.35	21.23	21.12	3	22.5
		100	0	21.18	21.22	21.27	21.23	21.11	3	22.5
10M	QPSK	Channel		39725	40173	40620	41068	41515	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5		

LTE_Default

LTE Band 66_Ant1											
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP	Max.			
		Channel	132672	132322	132672	MPR (dB)	Tune-up (dBm)				
Frequency (MHz)											
20M	QPSK	1	0	24.40	24.36	24.45	0	25.5			
		1	50	24.53	24.49	24.48	0	25.5			
		1	99	24.42	24.41	24.54	0	25.5			
		50	0	23.50	23.45	23.52	1	24.5			
		50	25	23.57	23.53	23.69	1	24.5			
		50	50	23.54	23.42	23.50	1	24.5			
		100	0	23.50	23.43	23.55	1	24.5			
		1	0	23.48	23.55	23.46	1	24.5			
		1	50	23.76	23.71	23.91	1	24.5			
		1	99	23.65	23.37	23.47	1	24.5			
20M	16QAM	50	0	22.54	22.36	22.72	2	23.5			
		50	25	22.56	22.41	22.63	2	23.5			
		50	50	22.55	22.37	22.55	2	23.5			
		100	0	22.55	22.37	22.55	2	23.5			
		1	0	22.48	22.40	22.44	2	23.5			
		1	50	22.80	22.71	22.81	2	23.5			
		1	99	22.47	22.46	22.54	2	23.5			
		50	0	21.43	21.41	21.62	3	22.5			
		50	25	21.61	21.45	21.59	3	22.5			
		50	50	21.58	21.36	21.53	3	22.5			
20M	64QAM	50	0	21.47	21.36	21.58	3	22.5			
		100	0	21.47	21.36	21.58	3	22.5			
		Channel									
		132647	132322	132687	3GPP	Max.					
		Frequency (MHz)	1717.5	1745	1772.5	MPR (dB)	Tune-up (dBm)				
		1	0	24.37	24.29	24.38	0	25.5			
		1	37	24.44	24.35	24.47	0	25.5			
		1	74	24.33	24.34	24.53	0	25.5			
		36	0	23.49	23.44	23.41	1	24.5			
		36	19	23.47	23.50	23.54	1	24.5			
36	39	23.49	23.35	23.41	1	24.5					
15M	16QAM	75	0	23.40	23.35	23.45	1	24.5			
		1	0	23.45	23.50	23.45	1	24.5			
		1	37	23.62	23.64	23.79	1	24.5			
		1	74	23.59	23.28	23.37	1	24.5			
		36	0	22.51	22.21	22.61	2	23.5			
		36	19	22.47	22.32	22.55	2	23.5			
		36	39	22.45	22.39	22.48	2	23.5			
		75	0	22.47	22.36	22.41	2	23.5			
		1	0	22.36	22.28	22.37	2	23.5			
		1	37	22.77	22.65	22.74	2	23.5			
15M	64QAM	1	74	22.33	22.40	22.40	2	23.5			
		36	0	21.36	21.36	21.50	3	22.5			
		36	19	21.55	21.36	21.48	3	22.5			
		36	39	21.47	21.21	21.38	3	22.5			
		75	0	21.39	21.21	21.43	3	22.5			
		Channel									
		132622	132322	132622	3GPP	Max.					
		Frequency (MHz)	1717.5	1745	1772.5	MPR (dB)	Tune-up (dBm)				
		1	0	24.39	24.32	24.31	0	25.5			
		1	24	24.48	24.44	24.53	0	25.5			
1	49	24.39	24.26	24.41	0	25.5					
25	0	23.42	23.37	23.49	1	24.5					
25	12	23.47	23.40	23.66	1	24.5					
25	25	23.44	23.29	23.35	1	24.5					
50	0	23.46	23.34	23.45	1	24.5					
1	0	23.44	23.53	23.40	1	24.5					
1	24	23.64	23.57	23.89	1	24.5					
10M	16QAM	1	49	23.61	23.27	23.45	1	24.5			
		25	0	22.47	22.31	22.68	2	23.5			
		25	12	22.52	22.33	22.52	2	23.5			
		25	25	22.40	22.31	22.37	2	23.5			
		50	0	22.54	22.29	22.43	2	23.5			
		10M	64QAM	1	0	22.46	22.31	22.38	2	23.5	
				1	24	22.70	22.60	22.66	2	23.5	
				1	49	22.33	22.43	22.46	2	23.5	
				25	0	21.29	21.28	21.56	3	22.5	
				25	12	21.51	21.30	21.56	3	22.5	
25	25			21.47	21.29	21.39	3	22.5			
50	0			21.36	21.32	21.49	3	22.5			
Channel											
131997	132322			132647	3GPP	Max.					
Frequency (MHz)	1717.5			1745	1772.5	MPR (dB)	Tune-up (dBm)				
1	0	24.26	24.23	24.40	0	25.5					
1	12	24.47	24.36	24.51	0	25.5					
1	24	24.38	24.32	24.46	0	25.5					
12	0	23.39	23.42	23.43	1	24.5					
12	6	23.43	23.43	23.59	1	24.5					
12	13	23.43	23.31	23.47	1	24.5					
25	0	23.47	23.39	23.52	1	24.5					
5M	16QAM	1	0	23.45	23.52	23.45	1	24.5			
		1	12	23.61	23.67	23.76	1	24.5			
		1	24	23.56	23.31	23.45	1	24.5			
		12	0	22.52	22.30	22.58	2	23.5			
		12	6	22.50	22.30	22.53	2	23.5			
		12	13	22.42	22.30	22.42	2	23.5			
		25	0	22.53	22.33	22.42	2	23.5			
		1	0	22.33	22.31	22.33	2	23.5			
		1	12	22.65	22.62	22.71	2	23.5			
		1	24	22.33	22.39	22.45	2	23.5			
5M	64QAM	12	0	21.34	21.30	21.54	3	22.5			
		12	6	21.50	21.40	21.45	3	22.5			
		12	13	21.53	21.21	21.43	3	22.5			
		25	0	21.39	21.25	21.45	3	22.5			
		Channel									
		131987	132322	132657	3GPP	Max.					
		Frequency (MHz)	1717.5	1745	1772.5	MPR (dB)	Tune-up (dBm)				
		1	0	24.37	24.29	24.31	0	25.5			
		1	7	24.45	24.44	24.47	0	25.5			
		1	14	24.27	24.39	24.46	0	25.5			
8	0	23.36	23.35	23.42	1	24.5					
8	3	23.54	23.52	23.63	1	24.5					
8	7	23.45	23.36	23.41	1	24.5					
3M	16QAM	15	0	23.47	23.40	23.50	1	24.5			
		1	0	23.33	23.54	23.34	1	24.5			
		1	7	23.62	23.63	23.67	1	24.5			
		1	14	23.52	23.25	23.39	1	24.5			
		8	0	22.41	22.33	22.63	2	23.5			
		8	3	22.53	22.33	22.53	2	23.5			
		8	7	22.50	22.25	22.34	2	23.5			
		15	0	22.49	22.26	22.44	2	23.5			
		1	0	22.46	22.36	22.39	2	23.5			
		1	7	22.78	22.59	22.72	2	23.5			
3M	64QAM	1	14	22.46	22.38	22.51	2	23.5			
		8	0	21.33	21.37	21.51	3	22.5			
		8	3	21.47	21.35	21.49	3	22.5			
		8	7	21.56	21.25	21.48	3	22.5			
		15	0	21.41	21.25	21.49	3	22.5			
		Channel									
		131979	132322	132665	3GPP	Max.					
		Frequency (MHz)	1717.5	1745	1772.5	MPR (dB)	Tune-up (dBm)				
		1	0	24.51	24.42	24.42	0	25.5			
		1	2	24.50	24.55	24.43	0	25.5			
1	5	24.52	24.41	24.57	0	25.5					
3	0	24.34	24.28	24.54	0	25.5					
3	1	24.35	24.45	24.51	0	25.5					
3	3	24.56	24.27	24.46	0	25.5					
6	0	23.57	23.54	23.67	1	24.5					
1	0	23.50	23.62	23.60	1	24.5					
1.4M	16QAM	1	2	24.01	23.91	24.04	1	24.5			
		1	5	23.67	23.54	23.66	1	24.5			
		3	0	23.44	23.45	23.61	1	24.5			
		3	1	23.63	23.46	23.60	1	24.5			
		3	3	23.45	23.32	23.42	1	24.5			
		6	0	22.67	22.59	22.70	2	23.5			
		1.4M	64QAM	1	0	22.60	22.48	22.60	2	23.5	
				1	2	22.68	22.68	23.00	2	23.5	
				1	5	22.47	22.58	22.57	2	23.5	
				3	0	22.36	22.41	22.60	2	23.5	
3	1			22.46	22.32	22.48	2	23.5			
3	3			22.58	22.34	22.32	2	23.5			
6	0			21.69	21.45	21.64	3	22.5			

LTE Band 66 Ant4										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP	Max.		
		Channel	Frequency (MHz)	132672	132322	132672	MPR (dB)	Time-up (dBm)		
20M	QPSK	1	0	24.13	24.23	24.22	0	25.5		
		1	50	24.30	24.26	24.43	0	25.5		
		1	99	24.17	24.12	24.27	0	25.5		
		50	0	23.36	23.30	23.38	1	24.5		
		50	25	23.48	23.39	23.48	1	24.5		
	160AM	50	50	23.34	23.36	23.42	1	24.5		
		100	0	23.28	23.27	23.41	1	24.5		
		1	0	23.27	23.37	23.29	1	24.5		
		1	50	23.20	23.67	23.74	1	24.5		
		1	99	23.28	23.41	23.27	1	24.5		
64QAM	50	0	22.31	22.31	22.52	2	23.5			
	50	25	22.46	22.44	22.47	2	23.5			
	50	50	22.46	22.38	22.28	2	23.5			
	100	0	22.41	22.32	22.48	2	23.5			
	1	0	22.46	22.38	22.39	2	23.5			
	1	50	22.57	22.62	22.61	2	23.5			
	1	99	22.34	22.23	22.25	2	23.5			
	50	0	21.34	21.28	21.45	3	22.5			
	50	25	21.36	21.35	21.49	3	22.5			
	50	50	21.28	21.54	21.30	3	22.5			
BW	Modulation	Channel	132672	132322	132687	3GPP	Max.			
		Frequency (MHz)	177.15	1748	1772.5	MPR (dB)	Time-up (dBm)			
	QPSK	1	0	24.02	24.12	24.13	0	25.5		
		1	37	24.27	24.33	24.32	0	25.5		
		1	74	24.13	24.07	24.24	0	25.5		
		36	0	23.24	23.34	23.45	1	24.5		
		36	19	23.29	23.34	23.45	1	24.5		
		36	39	23.25	23.25	23.35	1	24.5		
		75	0	23.26	23.12	23.27	1	24.5		
		160AM	1	0	23.23	23.28	23.14	1	24.5	
1			37	23.56	23.54	23.71	1	24.5		
1			74	23.19	23.30	23.23	1	24.5		
36	0		22.24	22.18	22.29	2	23.5			
36	19		22.40	22.38	22.42	2	23.5			
36	39		22.33	22.35	22.15	2	23.5			
75	0		22.34	22.21	22.43	2	23.5			
64QAM	1		0	22.44	22.21	22.37	2	23.5		
	1		37	22.58	22.49	22.52	2	23.5		
	1		74	22.24	22.22	22.22	2	23.5		
	36	0	21.26	21.27	21.44	3	22.5			
	36	19	21.24	21.28	21.42	3	22.5			
	36	39	21.14	21.19	21.29	3	22.5			
	75	0	21.11	21.04	21.37	3	22.5			
	BW	Modulation	Channel	132662	132322	132667	3GPP	Max.		
			Frequency (MHz)	177.15	1748	1777.5	MPR (dB)	Time-up (dBm)		
		QPSK	1	0	24.07	24.11	24.16	0	25.5	
1			24	24.29	24.32	24.39	0	25.5		
1			49	24.03	24.02	24.12	0	25.5		
25			0	23.24	23.29	23.31	1	24.5		
25			12	23.39	23.33	23.45	1	24.5		
25			25	23.30	23.34	23.33	1	24.5		
50			0	23.26	23.30	23.36	1	24.5		
160AM			1	0	23.16	23.25	23.18	1	24.5	
	1		24	23.68	23.57	23.73	1	24.5		
	1		49	23.19	23.40	23.21	1	24.5		
	25	0	22.25	22.21	22.41	2	23.5			
	25	12	22.33	22.36	22.32	2	23.5			
	25	25	22.37	22.34	22.26	2	23.5			
	50	0	22.26	22.25	22.42	2	23.5			
	64QAM	1	0	22.35	22.26	22.25	2	23.5		
		1	24	22.56	22.47	22.49	2	23.5		
		1	49	22.33	22.09	22.22	2	23.5		
25		0	21.29	21.22	21.39	3	22.5			
25		12	21.31	21.28	21.48	3	22.5			
25		25	21.15	21.27	21.24	3	22.5			
50		0	21.13	21.10	21.44	3	22.5			
BW		Modulation	Channel	131967	132322	132647	3GPP	Max.		
			Frequency (MHz)	177.15	1748	1777.5	MPR (dB)	Time-up (dBm)		
		QPSK	1	0	24.03	24.19	24.12	0	25.5	
	1		12	24.45	24.27	24.32	0	25.5		
	1		24	24.16	24.00	24.17	0	25.5		
	12		0	23.32	23.27	23.33	1	24.5		
	12		6	23.28	23.35	23.44	1	24.5		
	12		13	23.29	23.33	23.27	1	24.5		
	25		0	23.15	23.26	23.27	1	24.5		
	160AM		1	0	23.16	23.36	23.23	1	24.5	
12			0	23.69	23.61	23.73	1	24.5		
1			24	23.24	23.31	23.18	1	24.5		
12		0	22.29	22.16	22.43	2	23.5			
12		6	22.42	22.42	22.37	2	23.5			
12		13	22.44	22.25	22.21	2	23.5			
25		0	22.37	22.31	22.31	2	23.5			
64QAM		1	0	22.44	22.30	22.26	2	23.5		
		1	24	22.27	22.15	22.16	2	23.5		
		12	0	21.20	21.25	21.36	3	22.5		
	12	6	21.24	21.23	21.34	3	22.5			
	12	13	21.13	21.20	21.21	3	22.5			
	25	0	21.17	21.01	21.42	3	22.5			
	BW	Modulation	Channel	131987	132322	132687	3GPP	Max.		
			Frequency (MHz)	177.15	1748	1778.5	MPR (dB)	Time-up (dBm)		
		QPSK	1	0	24.05	24.20	24.15	0	25.5	
			1	7	24.22	24.31	24.29	0	25.5	
1			14	24.09	24.10	24.18	0	25.5		
8			0	23.24	23.20	23.24	1	24.5		
8			7	23.26	23.26	23.36	1	24.5		
8			7	23.19	23.24	23.29	1	24.5		
15			0	23.25	23.13	23.30	1	24.5		
160AM			1	0	23.17	23.26	23.22	1	24.5	
	1		7	23.57	23.59	23.69	1	24.5		
	1		14	23.18	23.35	23.25	1	24.5		
	8	0	22.29	22.28	22.39	2	23.5			
	8	3	22.43	22.35	22.39	2	23.5			
	8	7	22.32	22.24	22.27	2	23.5			
	15	0	22.40	22.21	22.35	2	23.5			
	64QAM	1	0	22.35	22.22	22.36	2	23.5		
		1	7	22.46	22.58	22.48	2	23.5		
		1	14	22.32	22.12	22.18	2	23.5		
8		0	21.22	21.26	21.32	3	22.5			
8		3	21.28	21.27	21.35	3	22.5			
8		7	21.22	21.20	21.16	3	22.5			
15		0	21.08	21.07	21.44	3	22.5			
BW		Modulation	Channel	131979	132322	132685	3GPP	Max.		
			Frequency (MHz)	177.15	1748	1778.5	MPR (dB)	Time-up (dBm)		
		QPSK	1	0	24.11	24.04	24.12	0	25.5	
	1		2	24.11	24.14	24.34	0	25.5		
	1		5	24.18	24.15	24.03	0	25.5		
	3		0	24.20	24.20	24.23	0	25.5		
	3		1	24.26	24.24	24.23	0	25.5		
	3		3	24.17	24.20	24.08	0	25.5		
	6		0	23.28	23.28	23.37	1	24.5		
	160AM		1	0	23.34	23.34	23.28	1	24.5	
1			2	23.60	23.62	23.76	1	24.5		
1			5	23.35	23.43	23.50	1	24.5		
3		0	23.06	23.20	23.36	1	24.5			
3		1	23.39	23.28	23.28	1	24.5			
3		3	23.32	23.08	23.21	1	24.5			
6		0	22.33	22.23	22.36	2	23.5			
64QAM		1	0	22.12	22.39	22.39	2	23.5		
		1	2	22.67	22.48	22.61	2	23.5		
		1	5	22.35	22.28	22.29	2	23.5		
	3	0	22.16	22.26	22.31	2	23.5			
	3	1	22.23	22.24	22.28	2	23.5			
	3	3	22.25	22.16	22.23	2	23.5			
	6	0	21.44	21.37	21.51	3	22.5			

LTE_DSI 1

LTE Band 2 Ant1 (DS1)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel Frequency (MHz)	18700 18800 18900 19100 19100	18800 18900 19100 19100	18900 19100 19100 19100	19100 19100 19100 19100	19100 19100 19100 19100	19100 19100 19100 19100
20M	QPSK	1	0	24.13	24.05	24.10	0	25.5
		1	50	24.35	24.41	24.32	0	25.5
		1	99	24.05	23.91	23.97	0	25.5
		50	0	23.28	23.27	23.18	1	24.5
		50	25	23.38	23.39	23.30	1	24.5
		50	50	23.32	23.18	23.15	1	24.5
	16QAM	100	0	23.38	23.38	23.25	1	24.5
		1	0	23.39	23.32	23.36	1	24.5
		1	50	23.71	23.70	23.71	1	24.5
		1	99	23.38	23.35	23.32	1	24.5
		50	0	22.43	22.32	22.23	2	23.5
		50	25	22.37	22.37	22.30	2	23.5
	64QAM	50	50	22.47	22.28	22.18	2	23.5
		100	0	22.34	22.27	22.28	2	23.5
		1	0	22.37	22.24	22.38	2	23.5
		1	50	22.68	22.63	22.61	2	23.5
		1	99	22.27	22.25	22.15	2	23.5
		50	0	21.28	21.25	21.21	3	22.5
15M	QPSK	1	0				0	25.5
		1	37				0	25.5
		1	74				0	25.5
		36	0				1	24.5
		36	19				1	24.5
		36	39				1	24.5
	16QAM	75	0				1	24.5
		1	0				1	24.5
		1	37				1	24.5
		1	74				1	24.5
		36	0				2	23.5
		36	19				2	23.5
	64QAM	36	39				2	23.5
		75	0				2	23.5
		1	0				2	23.5
		1	37				2	23.5
		1	74				2	23.5
		36	0				3	22.5
10M	QPSK	1	0				0	25.5
		1	24				0	25.5
		1	49				0	25.5
		25	0				1	24.5
		25	12				1	24.5
		25	25				1	24.5
	16QAM	50	0				1	24.5
		1	0				1	24.5
		1	24				1	24.5
		1	49				1	24.5
		25	0				2	23.5
		25	12				2	23.5
	64QAM	25	25				2	23.5
		50	0				2	23.5
		1	0				2	23.5
		1	24				2	23.5
		1	49				2	23.5
		25	0				3	22.5
5M	QPSK	1	0				0	25.5
		1	12				0	25.5
		1	24				0	25.5
		12	0				1	24.5
		12	6				1	24.5
		12	13				1	24.5
	16QAM	25	0				1	24.5
		1	0				1	24.5
		1	12				1	24.5
		1	24				1	24.5
		12	0				2	23.5
		12	6				2	23.5
	64QAM	12	13				2	23.5
		25	0				2	23.5
		1	0				2	23.5
		1	12				2	23.5
		1	24				2	23.5
		12	0				3	22.5
3M	QPSK	1	0				0	25.5
		1	14				0	25.5
		8	0				1	24.5
		8	3				1	24.5
		8	7				1	24.5
		15	0				1	24.5
	16QAM	1	0				1	24.5
		1	14				1	24.5
		8	0				2	23.5
		8	3				2	23.5
		8	7				2	23.5
		15	0				2	23.5
	64QAM	1	0				2	23.5
		1	7				2	23.5
		1	14				2	23.5
		8	0				3	22.5
		8	3				3	22.5
		8	7				3	22.5
1.4M	QPSK	1	0				0	25.5
		1	2				0	25.5
		1	5				0	25.5
		3	0				0	25.5
		3	1				0	25.5
		3	3				0	25.5
	16QAM	6	0				1	24.5
		1	0				1	24.5
		1	2				1	24.5
		1	5				1	24.5
		3	0				1	24.5
		3	1				1	24.5
	64QAM	3	3				1	24.5
		6	0				2	23.5
		1	0				2	23.5
		1	2				2	23.5
		1	5				2	23.5
		3	0				2	23.5

LTE Band 2 Ant4 (DS1)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel Frequency (MHz)	18700 18800 18900 19100 19100	18800 18900 19100 19100 19100	18900 19100 19100 19100 19100	19100 19100 19100 19100 19100	19100 19100 19100 19100 19100	
20M	QPSK	1	0	17.62	17.69	17.68	0	19
		1	50	17.60	17.77	17.83	0	19
		1	99	17.65	17.71	17.63	0	19
		50	0	17.67	17.62	17.68	0	19
		50	25	17.73	17.69	17.79	0	19
		50	50	17.66	17.62	17.71	0	19
	16QAM	100	0	17.63	17.71	17.75	0	19
		1	0	17.67	17.78	17.71	0	19
		1	50	17.79	17.75	17.79	0	19
		1	99	17.71	17.68	17.70	0	19
		50	0	17.68	17.67	17.68	0	19
		50	25	17.70	17.65	17.66	0	19
	64QAM	50	50	17.62	17.73	17.68	0	19
		100	0	17.62	17.66	17.70	0	19
		1	0	17.65	17.76	17.69	0	19
		1	50	17.62	17.72	17.68	0	19
		1	99	17.72	17.63	17.68	0	19
		50	0	17.67	17.67	17.64	0	19
15M	QPSK	1	0				0	19
		1	37				0	19
		1	74				0	19
		36	0				0	19
		36	19				0	19
		36	39				0	19
	16QAM	75	0				0	19
		1	0				0	19
		1	37				0	19
		1	74				0	19
		36	0				0	19
		36	19				0	19
	64QAM	36	39				0	19
		75	0				0	19
		1	0				0	19
		1	37				0	19
		1	74				0	19
		36	0				0	19
10M	QPSK	1	0				0	19
		1	24				0	19
		1	49				0	19
		25	0				0	19
		25	12				0	19
		25	25				0	19
	16QAM	50	0				0	19
		1	0				0	19
		1	24				0	19
		1	49				0	19
		25	0				0	19
		25	12				0	19
	64QAM	25	25				0	19
		50	0				0	19
		1	0				0	19
		1	24				0	19
		1	49				0	19
		25	0				0	19
5M	QPSK	1	0				0	19
		1	12				0	19
		1	24				0	19
		12	0				0	19
		12	6				0	19
		12	13				0	19
	16QAM	25	0				0	19
		1	0				0	19
		1	12				0	19
		1	24				0	19
		12	0				0	19
		12	6				0	19
	64QAM	12	13				0	19
		25	0				0	19
		1	0				0	19
		1	12				0	19
		1	24				0	19
		12	0				0	19
3M	QPSK	12	6				0	19
		12	13				0	19
		25	0				0	19
		1	0				0	19
		1	12				0	19
		1	24				0	19
	16QAM	12	0				0	19
		12	6				0	19
		12	13				0	19
		25	0				0	19
		1	0				0	19
		1	12				0	19
	64QAM	1	24				0	19
		12	0				0	19
		12	6				0	19
		12	13				0	19
		25	0				0	19
		1	0				0	19
1.4M	QPSK	1	0				0	19
		1	7				0	19
		1	14				0	19
		8	0				0	19
		8	3				0	19
		8	7				0	19
	16QAM	15	0				0	19
		1	0				0	19
		1	7				0	19
		1	14				0	19
		8	0				0	19
		8	3				0	19
	64QAM	8	7				0	19
		15	0				0	19
		1	0				0	19
		1	7				0	19
		1	14				0	19
		8	0				0	19
1.4M	QPSK	8	3				0	19
		8	7				0	19
		15	0				0	19
		1	0				0	19
		1	7				0	19
		1	14				0	19
	16QAM	8	3				0	19
		8	7				0	19
		15	0				0	19
		1	0				0	19
		1	7				0	19
		1	14				0	19
	64QAM	8	3				0	19
		8	7				0	19
		15	0				0	19
		1	0				0	19
		1	7				0	19
		1	14				0	19

LTE_DSI 1

LTE Band 4_Ant1 (DS11)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel Frequency (MHz)	20050 1729	20175 1732.5	20300 1745			
20M	QPSK	1	0	24.16	24.12	24.11	0	25.5
		50	0	24.42	24.51	24.45	0	25.5
		1	99	24.20	24.16	24.08	0	25.5
		50	0	23.43	23.36	23.35	1	24.5
		50	25	23.45	23.55	23.46	1	24.5
		50	50	23.44	23.47	23.33	1	24.5
	16QAM	100	0	23.48	23.49	23.32	1	24.5
		1	0	23.45	23.42	23.44	1	24.5
		1	50	23.77	23.70	23.75	1	24.5
		1	99	23.50	23.42	23.32	1	24.5
		50	0	22.37	22.40	22.46	2	23.5
		50	25	22.58	22.51	22.49	2	23.5
	64QAM	50	50	22.48	22.59	22.49	2	23.5
		100	0	22.42	22.51	22.29	2	23.5
		1	0	22.50	22.35	22.31	2	23.5
		1	50	22.66	22.64	22.58	2	23.5
		1	99	22.48	22.39	22.32	2	23.5
		50	0	21.43	21.44	21.43	3	22.5
15M	QPSK	50	25	21.51	21.51	21.38	3	22.5
		50	50	21.53	21.54	21.35	3	22.5
		100	0	21.53	21.51	21.39	3	22.5
	16QAM	1	0					
		1	37					
		1	74					
		36	0					
		36	19					
		36	39					
	64QAM	75	0					
		1	0					
		1	37					
		1	74					
		36	0					
		36	19					
10M	QPSK	36	39					
		75	0					
	16QAM	1	0					
		1	37					
		1	74					
		36	0					
	64QAM	36	19					
		36	39					
		75	0					
	QPSK	1	0					
		1	37					
		1	74					
		36	0					
		36	19					
		36	39					
5M	QPSK	75	0					
		1	0					
		1	24					
		1	49					
		25	0					
		25	12					
	16QAM	25	25					
		50	0					
	64QAM	1	0					
		1	24					
		1	49					
		25	0					
3M	QPSK	25	12					
		25	25					
		50	0					
	16QAM	1	0					
		1	24					
		12	0					
	64QAM	12	6					
		12	13					
		25	0					
1.4M	QPSK	1	0					
		1	12					
		1	24					
		12	0					
		12	6					
		12	13					
	16QAM	25	0					
		1	0					
		1	12					
		1	24					
		12	0					
		12	6					
	64QAM	12	13					
		25	0					
		1	0					
		1	12					
		1	24					
		12	0					
15M	QPSK	12	6					
		12	13					
		25	0					
	16QAM	1	0					
		1	12					
		1	24					
	64QAM	12	0					
		12	6					
		12	13					
		25	0					
10M	QPSK	1	0					
		1	12					
		1	24					
		12	0					
		12	6					
		12	13					
	16QAM	25	0					
		1	0					
		1	12					
		1	24					
		12	0					
		12	6					
	64QAM	12	13					
		25	0					
		1	0					
		1	12					
		1	24					
		12	0					
5M	QPSK	12	6					
		12	13					
		25	0					
	16QAM	1	0					
		1	12					
		1	24					
	64QAM	12	0					
		12	6					
		12	13					
		25	0					
3M	QPSK	1	0					
		1	12					
		1	24					
		12	0					
		12	6					
		12	13					
	16QAM	25	0					
		1	0					
		1	12					
		1	24					
		12	0					
		12	6					
	64QAM	12	13					
		25	0					
		1	0					
		1	12					
		1	24					
		12	0					
1.4M	QPSK	12	6					
		12	13					
		25	0					
	16QAM	1	0					
		1	12					
		1	24					
	64QAM	12	0					
		12	6					
		12	13					
		25	0					
1.4M	QPSK	1	0					
		1	2					
		1	5					
		3	0					
		3	1					
		3	3					
	16QAM	6	0					
		1	0					
		1	2					
		1	5					
		3	0					
		3	1					
	64QAM	3	3					
		6	0					
		1	0					
		1	2					
		1	5					
		3	0					
1.4M	QPSK	3	1					
		3	3					
		6	0					
	16QAM	1	0					
		1	2					
		1	5					
	64QAM	3	0					
		3	1					
		3	3					
		6	0					

LTE Band 4_Ant4 (DS11)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel Frequency (MHz)		20050 1729	20175 1732.5	20300 1745		
20M	QPSK	1	0	14.75	14.87	14.84	0	16
		1	50	14.91	14.94	14.89	0	16
		1	99	14.79	14.85	14.75	0	16
		50	0	14.76	14.81	14.82	0	16
		50	25	14.79	14.88	14.83	0	16
		50	50	14.73	14.84	14.79	0	16
	16QAM	100	0	14.78	14.91	14.87	0	16
		1	0	14.87	14.85	14.93	0	16
		1	50	14.78	14.85	14.79	0	16
		1	99	14.90	14.89	14.92	0	16
		50	0	14.78	14.82	14.83	0	16
		50	25	14.92	14.81	14.88	0	16
	64QAM	50	50	14.72	14.88	14.85	0	16
		100	0	14.81	14.82	14.80	0	16
		1	0	14.81	14.84	14.78	0	16
		1	50	14.78	14.82	14.90	0	16
		1	99	14.88	14.80	14.79	0	16
		50	0	14.76	14.84	14.74	0	16
	BW	Modulation	Channel Frequency (MHz)	20025 1717.5	20175 1732.5	20325 1747.5	3GPP MPR (dB)	Max. Tune-up (dBm)
			1	0			0	16
		QPSK	1	37			0	16
			1	74			0	16
			36	0			0	16
			36	19			0	16
36	39				0	16		
75	0				0	16		
16QAM	1	0			0	16		
	1	37			0	16		
	1	74			0	16		
	36	0			0	16		
	36	19			0	16		
	36	39			0	16		
64QAM	75	0			0	16		
	1	0			0	16		
	1	37			0	16		
	36	0			0	16		
	36	19			0	16		
	36	39			0	16		
10M	QPSK	Channel Frequency (MHz)	19975 1715	20175 1732.5	20375 1750	3GPP MPR (dB)	Max. Tune-up (dBm)	
		1	0			0	16	
		1	24			0	16	
		1	49			0	16	
		25	0			0	16	
		25	12			0	16	
	16QAM	50	0			0	16	
		1	0			0	16	
		1	24			0	16	
		1	49			0	16	
		25	0			0	16	
		25	12			0	16	
	64QAM	25	25			0	16	
		50	0			0	16	
		1	0			0	16	
		1	24			0	16	
		1	49			0	16	
		25	0			0	16	
	BW	Modulation	Channel Frequency (MHz)	19975 1712.5	20175 1732.5	20375 1752.5	3GPP MPR (dB)	Max. Tune-up (dBm)
			1	0			0	16
		QPSK	1	12			0	16
			1	24			0	16
			12	0			0	16
			12	6			0	16
12	13				0	16		
25	0				0	16		
16QAM	1	0			0	16		
	1	12			0	16		
	1	24			0	16		
	12	0			0	16		
	12	6			0	16		
	12	13			0	16		
64QAM	25	0			0	16		
	1	0			0	16		
	1	12			0	16		
	1	24			0	16		
	12	0			0	16		
	12	6			0	16		
BW	Modulation	Channel Frequency (MHz)	19965 1711.5	20175 1732.5	20385 1753.5	3GPP MPR (dB)	Max. Tune-up (dBm)	
		1	0			0	16	
	QPSK	1	7			0	16	
		1	14			0	16	
		8	0			0	16	
		8	3			0	16	
8		7			0	16		
15		0			0	16		
16QAM	1	0			0	16		
	1	7			0	16		
	1	14			0	16		
	8	0			0	16		
	8	3			0	16		
	8	7			0	16		
64QAM	15	0			0	16		
	1	0			0	16		
	1	7			0	16		
	1	14			0	16		
	8	0			0	16		
	8	3			0	16		
1.4M	QPSK	Channel Frequency (MHz)	19967 1711.7	20175 1732.5	20393 1754.3	3GPP MPR (dB)	Max. Tune-up (dBm)	
		1	0			0	16	
		1	2			0	16	
		1	5			0	16	
		3	0			0	16	
		3	3			0	16	
	16QAM	6	0			0	16	
		6	0			0	16	
		1	2			0	16	
		1	5			0	16	
		3	0			0	16	
		3	3			0	16	
	64QAM	6	0			0	16	
		1	0			0	16	
		1	2			0	16	
		1	5			0	16	
		3	0			0	16	
		3	3			0	16	
	BW	Modulation	Channel Frequency (MHz)	19967 1711.5	20175 1732.5	20393 1754.3	3GPP MPR (dB)	Max. Tune-up (dBm)
			1	0			0	16
		QPSK	1	2			0	16
			1	5			0	16
			3	0			0	16
			3	3			0	16
6	0				0	16		
6	0				0	16		
16QAM	1	0			0	16		
	1	2			0	16		
	1	5			0	16		
	3	0			0	16		
	3	3			0	16		
	6	0			0	16		
64QAM	6	0			0	16		
	1	0			0	16		
	1	2			0	16		
	1	5			0	16		
	3	0			0	16		
	3	3			0	16		

LTE_DSI 1

LTE Band 5_Ant1 (DS11)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20450	20525	20600		
		Frequency (MHz)		829	836.5	844		
10M	QPSK	1	0	24.42	24.39	24.32	0	25.5
		1	24	24.49	24.45	24.60	0	25.5
		1	49	24.28	24.30	24.42	0	25.5
		25	0	23.43	23.40	23.43	1	24.5
		25	12	23.45	23.42	23.47	1	24.5
		25	25	23.38	23.36	23.31	1	24.5
		50	0	23.37	23.41	23.43	1	24.5
		1	0	23.60	23.58	23.60	1	24.5
	16QAM	1	24	23.76	23.71	23.78	1	24.5
		1	49	23.57	23.57	23.60	1	24.5
		25	0	22.44	22.51	22.62	2	23.5
		25	12	22.48	22.58	22.54	2	23.5
		25	25	22.45	22.46	22.56	2	23.5
		50	0	22.47	22.55	22.37	2	23.5
		1	0	22.51	22.62	22.51	2	23.5
		1	24	22.72	22.64	22.57	2	23.5
	64QAM	1	49	22.61	22.62	22.77	2	23.5
		25	0	21.49	21.52	21.62	3	22.5
		25	12	21.46	21.54	21.51	3	22.5
		25	25	21.57	21.52	21.53	3	22.5
		50	0	21.53	21.46	21.47	3	22.5
5M	QPSK	Channel		20425	20525	20625	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5		
		1	0				0	25.5
		1	12				0	25.5
		1	24				0	25.5
		12	0				1	24.5
		12	6				1	24.5
		12	13				1	24.5
	16QAM	25	0				1	24.5
		1	0				1	24.5
		1	12				1	24.5
		1	24				1	24.5
		12	0				2	23.5
		12	6				2	23.5
		12	13				2	23.5
		25	0				2	23.5
	64QAM	1	0				2	23.5
		1	12				2	23.5
		1	24				2	23.5
		12	0				3	22.5
		12	6				3	22.5
		12	13				3	22.5
		25	0				3	22.5
3M	QPSK	Channel		20415	20525	20635	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5		
		1	0				0	25.5
		1	7				0	25.5
		1	14				0	25.5
		8	0				1	24.5
		8	3				1	24.5
		8	7				1	24.5
		15	0				1	24.5
	16QAM	1	0				1	24.5
		1	7				1	24.5
		1	14				1	24.5
		8	0				2	23.5
		8	3				2	23.5
		8	7				2	23.5
		15	0				2	23.5
	64QAM	1	0				2	23.5
		1	7				2	23.5
		1	14				2	23.5
		8	0				3	22.5
		8	3				3	22.5
		8	7				3	22.5
		15	0				3	22.5
1.4M	QPSK	Channel		20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3		
		1	0				0	25.5
		1	2				0	25.5
		1	5				0	25.5
		3	0				0	25.5
		3	1				0	25.5
		3	3				0	25.5
		6	0				1	24.5
	16QAM	1	0				1	24.5
		1	2				1	24.5
		1	5				1	24.5
		3	0				1	24.5
		3	1				1	24.5
		3	3				1	24.5
		6	0				2	23.5
	64QAM	1	0				2	23.5
		1	2				2	23.5
		1	5				2	23.5
		3	0				2	23.5
		3	1				2	23.5
		3	3				2	23.5
		6	0				3	22.5

LTE Band 5_Ant4 (DS11)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20450	20525	20600		
		Frequency (MHz)		829	836.5	844		
10M	QPSK	1	0	21.76	21.87	21.90	0	23
		1	24	21.93	22.03	21.95	0	23
		1	49	21.80	21.87	21.89	0	23
		25	0	21.85	21.91	21.89	0	23
		25	12	21.75	21.83	21.78	0	23
		25	25	21.70	21.87	21.76	0	23
		50	0	21.77	21.99	21.90	0	23
	16QAM	1	0	21.88	21.81	22.02	0	23
		1	24	21.82	21.88	21.88	0	23
		1	49	21.99	21.87	21.91	0	23
		25	0	21.76	21.85	21.85	0	23
		25	12	21.91	21.82	21.83	0	23
		25	25	21.73	21.98	21.90	0	23
		50	0	21.87	21.80	21.89	0	23
	64QAM	1	0	21.76	21.81	21.76	0	23
		1	24	21.81	21.90	21.94	0	23
		1	49	21.88	21.78	21.75	0	23
		25	0	21.30	21.29	21.30	0.5	22.5
		25	12	21.39	21.46	21.45	0.5	22.5
		25	25	21.35	21.35	21.31	0.5	22.5
		50	0	21.30	21.43	21.36	0.5	22.5
BW	Modulation	Channel		20425	20525	20625	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5		
5M	QPSK	1	0				0	23
		1	12				0	23
		1	24				0	23
		12	0				0	23
		12	6				0	23
		12	13				0	23
		25	0				0	23
	16QAM	1	0				0	23
		1	12				0	23
		1	24				0	23
		12	0				0	23
		12	6				0	23
		12	13				0	23
		25	0				0	23
	64QAM	1	0				0	23
		1	12				0	23
		1	24				0	23
12		0				0.5	22.5	
12		6				0.5	22.5	
12		13				0.5	22.5	
25		0				0.5	22.5	
BW	Modulation	Channel		20415	20525	20635	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5		
3M	QPSK	1	0				0	23
		1	7				0	23
		1	14				0	23
		8	0				0	23
		8	3				0	23
		8	7				0	23
		15	0				0	23
	16QAM	1	0				0	23
		1	7				0	23
		1	14				0	23
		8	0				0	23
		8	3				0	23
		8	7				0	23
		15	0				0	23
	64QAM	1	0				0	23
		1	7				0	23
		1	14				0	23
8		0				0.5	22.5	
8		3				0.5	22.5	
8		7				0.5	22.5	
15		0				0.5	22.5	
BW	Modulation	Channel		20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3		
1.4M	QPSK	1	0				0	23
		1	2				0	23
		1	5				0	23
		3	0				0	23
		3	1				0	23
		3	3				0	23
		6	0				0	23
	16QAM	1	0				0	23
		1	2				0	23
		1	5				0	23
		3	0				0	23
		3	1				0	23
		3	3				0	23
		6	0				0	23
	64QAM	1	0				0	23
		1	2				0	23
		1	5				0	23
3		0				0	23	
3		1				0	23	
3		3				0	23	
6		0				0.5	22.5	

LTE_DSI 1

LTE Band 7_Ant1 (DS11)										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel		20850	21100	21350				
		Frequency (MHz)		2510	2535	2560				
20M	QPSK	1	0	24.21	24.28	24.26	0	25.5		
		1	50	24.38	24.35	24.48	0	25.5		
		1	99	24.15	24.19	24.26	0	25.5		
		50	0	23.29	23.44	23.49	1	24.5		
		50	25	23.34	23.48	23.52	1	24.5		
		50	50	23.26	23.29	23.35	1	24.5		
	16QAM	100	0	23.23	23.45	23.49	1	24.5		
		1	0	23.24	23.31	23.41	1	24.5		
		1	50	23.52	23.63	23.74	1	24.5		
		1	99	23.14	23.35	23.41	1	24.5		
		50	0	22.17	22.43	22.48	2	23.5		
		50	25	22.30	22.44	22.48	2	23.5		
	64QAM	50	50	22.27	22.34	22.42	2	23.5		
		100	0	22.18	22.37	22.48	2	23.5		
		1	0	22.25	22.57	22.38	2	23.5		
		1	50	22.46	22.20	22.67	2	23.5		
		1	99	22.03	22.45	22.31	2	23.5		
		50	0	21.13	21.38	21.47	3	22.5		
		50	25	21.20	21.37	21.47	3	22.5		
		50	50	21.21	21.33	21.34	3	22.5		
	BW		Modulation		Channel		20825	21100	21375	3GPP MPR (dB)
				Frequency (MHz)		2507.5	2535	2562.5		
15M	QPSK	1	0				0	25.5		
		1	37				0	25.5		
		1	74				0	25.5		
		36	0				1	24.5		
		36	19				1	24.5		
		36	39				1	24.5		
		75	0				1	24.5		
	16QAM	1	0				1	24.5		
		1	37				1	24.5		
		1	74				1	24.5		
		36	0				2	23.5		
		36	19				2	23.5		
		36	39				2	23.5		
		75	0				2	23.5		
	64QAM	1	0				2	23.5		
		1	37				2	23.5		
		1	74				2	23.5		
		36	0				3	22.5		
		36	19				3	22.5		
		36	39				3	22.5		
		75	0				3	22.5		
BW		Modulation		Channel		20800	21100	21400	3GPP MPR (dB)	Max. Tune-up (dBm)
				Frequency (MHz)		2505	2535	2565		
10M	QPSK	1	0				0	25.5		
		1	24				0	25.5		
		1	49				0	25.5		
		25	0				1	24.5		
		25	12				1	24.5		
		25	25				1	24.5		
		50	0				1	24.5		
	16QAM	1	0				1	24.5		
		1	24				1	24.5		
		1	49				1	24.5		
		25	0				2	23.5		
		25	12				2	23.5		
		25	25				2	23.5		
		50	0				2	23.5		
	64QAM	1	0				2	23.5		
		1	24				2	23.5		
		1	49				2	23.5		
		25	0				3	22.5		
		25	12				3	22.5		
		25	25				3	22.5		
		50	0				3	22.5		
BW		Modulation		Channel		20775	21100	21425	3GPP MPR (dB)	Max. Tune-up (dBm)
				Frequency (MHz)		2502.5	2535	2567.5		
5M	QPSK	1	0				0	25.5		
		1	12				0	25.5		
		1	24				0	25.5		
		12	0				1	24.5		
		12	6				1	24.5		
		12	13				1	24.5		
		25	0				1	24.5		
	16QAM	1	0				1	24.5		
		1	12				1	24.5		
		1	24				1	24.5		
		12	0				2	23.5		
		12	6				2	23.5		
		12	13				2	23.5		
		25	0				2	23.5		
	64QAM	1	0				2	23.5		
		1	12				2	23.5		
		1	24				2	23.5		
		12	0				3	22.5		
		12	6				3	22.5		
		12	13				3	22.5		
		25	0				3	22.5		

LTE Band 7_Ant4 (DS11)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		20850	21100	21350			
		Frequency (MHz)		2510	2535	2560			
20M	QPSK	1	0	17.85	17.66	17.70	0	19	
		1	50	17.91	17.85	17.76	0	19	
		1	99	17.79	17.82	17.46	0	19	
		50	0	17.69	17.69	17.68	0	19	
		50	25	17.83	17.75	17.72	0	19	
		50	50	17.72	17.68	17.57	0	19	
		100	0	17.84	17.76	17.72	0	19	
	16QAM	1	0	17.73	17.62	17.76	0	19	
		1	50	17.66	17.76	17.77	0	19	
		1	99	17.83	17.54	17.66	0	19	
		50	0	17.83	17.57	17.82	0	19	
		50	25	17.76	17.60	17.84	0	19	
		50	50	17.86	17.82	17.70	0	19	
		100	0	17.74	17.61	17.88	0	19	
	64QAM	1	0	17.67	17.69	17.61	0	19	
		1	50	17.68	17.72	17.69	0	19	
		1	99	17.70	17.64	17.59	0	19	
		50	0	17.87	17.81	17.66	0	19	
		50	25	17.76	17.79	17.74	0	19	
		50	50	17.58	17.71	17.67	0	19	
		100	0	17.65	17.63	17.62	0	19	
BW	Modulation	Channel		20825	21100	21375	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		2507.5	2535	2562.5			
15M	QPSK	1	0				0	19	
		1	37				0	19	
		1	74				0	19	
		36	0				0	19	
		36	19				0	19	
		36	39				0	19	
		75	0				0	19	
	16QAM	1	0				0	19	
		1	37				0	19	
		1	74				0	19	
		36	0				0	19	
		36	19				0	19	
		36	39				0	19	
		75	0				0	19	
	64QAM	1	0				0	19	
		1	37				0	19	
		1	74				0	19	
		36	0				0	19	
		36	19				0	19	
		36	39				0	19	
		75	0				0	19	
BW	Modulation	Channel		20800	21100	21400	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		2505	2535	2565			
10M	QPSK	1	0				0	19	
		1	24				0	19	
		1	49				0	19	
		25	0				0	19	
		25	12				0	19	
		25	25				0	19	
		50	0				0	19	
	16QAM	1	0				0	19	
		1	24				0	19	
		1	49				0	19	
		25	0				0	19	
		25	12				0	19	
		25	25				0	19	
		50	0				0	19	
	64QAM	1	0				0	19	
		1	24				0	19	
		1	49				0	19	
		25	0				0	19	
		25	12				0	19	
		25	25				0	19	
		50	0				0	19	
BW	Modulation	Channel		20775	21100	21425	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		2502.5	2535	2567.5			
5M	QPSK	1	0				0	19	
		1	12				0	19	
		1	24				0	19	
		12	0				0	19	
		12	6				0	19	
		12	13				0	19	
		25	0				0	19	
	16QAM	1	0				0	19	
		1	12				0	19	
		1	24				0	19	
		12	0				0	19	
		12	6				0	19	
		12	13				0	19	
		25	0				0	19	
	64QAM	1	0				0	19	
		1	12				0	19	
		1	24				0	19	
		12	0				0	19	
		12	6				0	19	
		12	13				0	19	
		25	0				0	19	

LTE_DSI 1

LTE Band 13_Ant1 (DS11)									
BW	Modulation	RB Size	RB Offset	Mid		3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel		23230					
		Frequency (MHz)		782					
10M	QPSK	1	0		24.48	0	25.5		
		1	24		24.50	0	25.5		
		1	49		24.35	0	25.5		
		25	0		23.52	1	24.5		
		25	12		23.56	1	24.5		
		25	25		23.48	1	24.5		
		50	0		23.53	1	24.5		
	16QAM	1	0		23.89	1	24.5		
		1	24		23.76	1	24.5		
		1	49		23.61	1	24.5		
		25	0		22.61	2	23.5		
		25	12		22.55	2	23.5		
		25	25		22.54	2	23.5		
		50	0		22.48	2	23.5		
	64QAM	1	0		22.70	2	23.5		
		1	24		22.82	2	23.5		
		1	49		22.62	2	23.5		
		25	0		21.58	3	22.5		
		25	12		21.54	3	22.5		
		25	25		21.52	3	22.5		
		50	0		21.48	3	22.5		
	BW	Modulation	Channel		23205	23230	23255	3GPP MPR (dB)	Max. Tune-up (dBm)
			Frequency (MHz)		779.5	782	784.5		
5M	QPSK	1	0				0	25.5	
		1	12				0	25.5	
		1	24				0	25.5	
		12	0				1	24.5	
		12	6				1	24.5	
		12	13				1	24.5	
		25	0				1	24.5	
	16QAM	1	0				1	24.5	
		1	12				1	24.5	
		1	24				1	24.5	
		12	0				2	23.5	
		12	6				2	23.5	
		12	13				2	23.5	
		25	0				2	23.5	
	64QAM	1	0				2	23.5	
		1	12				2	23.5	
		1	24				2	23.5	
		12	0				3	22.5	
		12	6				3	22.5	
		12	13				3	22.5	
		25	0				3	22.5	

LTE Band 13_Ant4 (DS11)									
BW	Modulation	RB Size	RB Offset	Mid		3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel		23230					
		Frequency (MHz)		782					
10M	QPSK	1	0		23.61		0	25	
		1	24		23.67		0	25	
		1	49		23.48		0	25	
		25	0		23.19		0.5	24.5	
		25	12		23.26		0.5	24.5	
		25	25		23.16		0.5	24.5	
		50	0		23.15		0.5	24.5	
	16QAM	1	0		23.25		0.5	24.5	
		1	24		23.57		0.5	24.5	
		1	49		23.46		0.5	24.5	
		25	0		22.31		1.5	23.5	
		25	12		22.27		1.5	23.5	
		25	25		22.14		1.5	23.5	
		50	0		22.23		1.5	23.5	
	64QAM	1	0		22.33		1.5	23.5	
		1	24		22.43		1.5	23.5	
		1	49		22.34		1.5	23.5	
		25	0		21.23		2.5	22.5	
		25	12		21.19		2.5	22.5	
		25	25		21.24		2.5	22.5	
		50	0		21.22		2.5	22.5	
	BW	Modulation	Channel		23205	23230	23255	3GPP MPR (dB)	Max. Tune-up (dBm)
			Frequency (MHz)		779.5	782	784.5		
5M	QPSK	1	0				0	25	
		1	12				0	25	
		1	24				0	25	
		12	0				0.5	24.5	
		12	6				0.5	24.5	
		12	13				0.5	24.5	
		25	0				0.5	24.5	
	16QAM	1	0				0.5	24.5	
		1	12				0.5	24.5	
		1	24				0.5	24.5	
		12	0				1.5	23.5	
		12	6				1.5	23.5	
		12	13				1.5	23.5	
		25	0				1.5	23.5	
	64QAM	1	0				1.5	23.5	
		1	12				1.5	23.5	
		1	24				1.5	23.5	
		12	0				2.5	22.5	
		12	6				2.5	22.5	
	12	13				2.5	22.5		
	25	0				2.5	22.5		

LTE Band 26_Ant1 (DS11)									
BW	Modulation	RB Size	RB Offset	Low			Mid		
		Channel		26765	26865	26965	26765	26865	26965
		Frequency (MHz)		821.5	831.5	841.5	821.5	831.5	841.5
15M	QPSK	1	0	24.37	24.39	24.46	0	25.5	
		1	37	24.48	24.45	24.52	0	25.5	
		1	74	24.41	24.33	24.44	0	25.5	
		36	0	23.57	23.59	23.52	1	24.5	
		36	19	23.60	23.66	23.69	1	24.5	
		36	39	23.56	23.63	23.56	1	24.5	
		75	0	23.46	23.57	23.58	1	24.5	
		1	0	23.68	23.74	23.80	1	24.5	
	16QAM	1	37	23.72	23.86	23.74	1	24.5	
		1	74	23.71	23.69	23.59	1	24.5	
		36	0	22.56	22.56	22.55	2	23.5	
		36	19	22.59	22.66	22.63	2	23.5	
		36	39	22.61	22.55	22.62	2	23.5	
		75	0	22.56	22.70	22.64	2	23.5	
		1	0	22.73	22.73	22.65	2	23.5	
		1	37	22.82	22.72	22.82	2	23.5	
		1	74	22.68	22.69	22.68	2	23.5	
	64QAM	36	0	21.57	21.66	21.58	3	22.5	
		36	19	21.58	21.68	21.58	3	22.5	
		36	39	21.53	21.56	21.56	3	22.5	
		75	0	21.47	21.67	21.61	3	22.5	
		Channel		26740	26865	26990	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		819	831.5	844			
10M	QPSK	1	0				0	25.5	
		1	24				0	25.5	
		1	49				0	25.5	
		25	0				1	24.5	
		25	12				1	24.5	
		25	25				1	24.5	
		50	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	24				1	24.5	
		1	49				1	24.5	
		25	0				2	23.5	
		25	12				2	23.5	
		25	25				2	23.5	
		50	0				2	23.5	
		1	0				2	23.5	
		1	24				2	23.5	
	64QAM	1	49				2	23.5	
		25	0				3	22.5	
		25	12				3	22.5	
		25	25				3	22.5	
		50	0				3	22.5	
		Channel		26715	26865	27015	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		816.5	831.5	846.5			
5M	QPSK	1	0				0	25.5	
		1	12				0	25.5	
		1	24				0	25.5	
		12	0				1	24.5	
		12	6				1	24.5	
		12	13				1	24.5	
		25	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	12				1	24.5	
		1	24				1	24.5	
		12	0				2	23.5	
		12	6				2	23.5	
		12	13				2	23.5	
		25	0				2	23.5	
		1	0				2	23.5	
		1	12				2	23.5	
	64QAM	1	24				2	23.5	
		12	0				3	22.5	
		12	6				3	22.5	
		12	13				3	22.5	
		25	0				3	22.5	
		Channel		26705	26865	27025	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		815.5	831.5	847.5			
3M	QPSK	1	0				0	25.5	
		1	7				0	25.5	
		1	14				0	25.5	
		8	0				1	24.5	
		8	3				1	24.5	
		8	7				1	24.5	
		15	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	7				1	24.5	
		1	14				1	24.5	
		8	0				2	23.5	
		8	3				2	23.5	
		8	7				2	23.5	
		15	0				2	23.5	
		1	0				2	23.5	
		1	7				2	23.5	
	64QAM	1	14				2	23.5	
		8	0				3	22.5	
		8	3				3	22.5	
		8	7				3	22.5	
		15	0				3	22.5	
		Channel		26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		814.7	831.5	848.3			
1.4M	QPSK	1	0				0	25.5	
		1	2				0	25.5	
		1	5				0	25.5	
		3	0				0	25.5	
		3	1				0	25.5	
		3	3				0	25.5	
		6	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	2				1	24.5	
		1	5				1	24.5	
		3	0				1	24.5	
		3	1				1	24.5	
		3	3				1	24.5	
		6	0				2	23.5	
		1	0				2	23.5	
		1	2				2	23.5	
	64QAM	1	5				2	23.5	
		3	0				2	23.5	
		3	1				2	23.5	
		3	3				2	23.5	
		6	0				3	22.5	

LTE Band 26_Ant4 (DS11)										
BW	Modulation	RB Size	RB Offset	Low		Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		26765	26865	26965				
		Frequency (MHz)		821.5	831.5	841.5				
15M	QPSK	1	0	22.34	22.25	22.28	0	23.5		
		1	37	22.37	22.39	22.43	0	23.5		
		1	74	22.30	22.33	22.24	0	23.5		
		36	0	22.21	22.23	22.25	0	23.5		
		36	19	22.25	22.27	22.32	0	23.5		
		36	39	22.18	22.26	22.16	0	23.5		
	16QAM	75	0	22.24	22.23	22.29	0	23.5		
		1	0	22.24	22.19	22.28	0	23.5		
		1	37	22.23	22.34	22.21	0	23.5		
		1	74	22.33	22.25	22.25	0	23.5		
		36	0	22.27	22.13	22.37	0	23.5		
		36	19	22.24	22.24	22.31	0	23.5		
	64QAM	36	39	22.31	22.38	22.22	0	23.5		
		75	0	22.26	22.12	22.38	0	23.5		
		1	0	22.21	22.22	22.22	0	23.5		
		1	37	22.21	22.28	22.30	0	23.5		
		1	74	22.29	22.26	22.20	0	23.5		
		36	0	21.34	21.32	21.28	1	22.5		
		36	19	21.30	21.37	21.33	1	22.5		
		36	39	21.18	21.24	21.23	1	22.5		
		75	0	21.25	21.13	21.25	1	22.5		
		BW	Modulation	Channel	26740	26865	26990	3GPP MPR (dB)	Max. Tune-up (dBm)	
				Frequency (MHz)	819	831.5	844			
		10M	QPSK	1	0				0	23.5
1	24						0	23.5		
1	49						0	23.5		
25	0						0	23.5		
25	12						0	23.5		
25	25						0	23.5		
16QAM	50		0				0	23.5		
	1		0				0	23.5		
	1		24				0	23.5		
	1		49				0	23.5		
	25		0				0	23.5		
	25		12				0	23.5		
64QAM	25		25				0	23.5		
	50		0				0	23.5		
	1		0				0	23.5		
	1		24				0	23.5		
	1		49				0	23.5		
	25		0				1	22.5		
	25		12				1	22.5		
	25		25				1	22.5		
	50		0				1	22.5		
	BW		Modulation	Channel	26715	26865	27015	3GPP MPR (dB)	Max. Tune-up (dBm)	
				Frequency (MHz)	816.5	831.5	846.5			
	5M		QPSK	1	0				0	23.5
1		12					0	23.5		
1		24					0	23.5		
12		0					0	23.5		
12		6					0	23.5		
12		13					0	23.5		
16QAM		25	0				0	23.5		
		1	0				0	23.5		
		1	12				0	23.5		
		1	24				0	23.5		
		12	0				0	23.5		
		12	6				0	23.5		
64QAM		12	13				0	23.5		
		25	0				0	23.5		
		1	0				0	23.5		
		1	12				0	23.5		
		1	24				0	23.5		
		12	0				1	22.5		
		12	6				1	22.5		
		12	13				1	22.5		
		25	0				1	22.5		
		BW	Modulation	Channel	26705	26865	27025	3GPP MPR (dB)	Max. Tune-up (dBm)	
				Frequency (MHz)	815.5	831.5	847.5			
		3M	QPSK	1	0				0	23.5
1	7						0	23.5		
1	14						0	23.5		
8	0						0	23.5		
8	3						0	23.5		
8	7						0	23.5		
16QAM	15		0				0	23.5		
	1		0				0	23.5		
	1		7				0	23.5		
	1		14				0	23.5		
	8		0				0	23.5		
	8		3				0	23.5		
64QAM	8		7				0	23.5		
	15		0				0	23.5		
	1		0				0	23.5		
	1		7				0	23.5		
	1		14				0	23.5		
	8		0				1	22.5		
	8		3				1	22.5		
	8		7				1	22.5		
	15		0				1	22.5		
	BW		Modulation	Channel	26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)	
				Frequency (MHz)	814.7	831.5	848.3			
	1.4M		QPSK	1	0				0	23.5
1		2					0	23.5		
1		5					0	23.5		
3		0					0	23.5		
3		1					0	23.5		
3		3					0	23.5		
16QAM		6	0				0	23.5		
		1	0				0	23.5		
		1	2				0	23.5		
		1	5				0	23.5		
		3	0				0	23.5		
		3	1				0	23.5		
64QAM		3	3				0	23.5		
		6	0				0	23.5		
		1	0				0	23.5		
		1	2				0	23.5		
		1	5				0	23.5		
		3	0				0	23.5		

LTE_DSI 1

LTE Band 38_Ant1 (DS11)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		37850	38000	38150		
		Frequency (MHz)		2580	2595	2610		
20M	QPSK	1	0	24.56	24.49	24.51	0	25.5
		1	50	24.73	24.70	24.56	0	25.5
		1	99	24.43	24.45	24.35	0	25.5
		50	0	23.62	23.56	23.59	1	24.5
		50	25	23.54	23.52	23.41	1	24.5
		50	50	23.48	23.44	23.48	1	24.5
		100	0	23.57	23.56	23.44	1	24.5
		1	0	23.48	23.49	23.40	1	24.5
	16QAM	1	50	23.75	23.77	23.62	1	24.5
		1	99	23.27	23.24	23.22	1	24.5
		50	0	22.57	22.62	22.47	2	23.5
		50	25	22.61	22.52	22.44	2	23.5
		50	50	22.59	22.54	22.41	2	23.5
		100	0	22.61	22.61	22.42	2	23.5
		1	0	22.08	22.08	22.12	2	23.5
		1	50	22.24	22.27	22.17	2	23.5
	64QAM	1	99	22.12	21.96	22.09	2	23.5
		50	0	21.61	21.49	21.48	3	22.5
		50	25	21.60	21.50	21.53	3	22.5
		50	50	21.60	21.51	21.34	3	22.5
		100	0	21.47	21.48	21.48	3	22.5
		Channel		37825	38000	38175	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2577.5	2595	2612.5		
15M	QPSK	1	0				0	25.5
		1	37				0	25.5
		1	74				0	25.5
		36	0				1	24.5
		36	19				1	24.5
		36	39				1	24.5
		75	0				1	24.5
		1	0				1	24.5
	16QAM	1	37				1	24.5
		1	74				1	24.5
		36	0				2	23.5
		36	19				2	23.5
		36	39				2	23.5
		75	0				2	23.5
		1	0				2	23.5
		1	37				2	23.5
	64QAM	1	74				2	23.5
		36	0				3	22.5
		36	19				3	22.5
		36	39				3	22.5
		75	0				3	22.5
		Channel		37800	38000	38200	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2575	2595	2615		
10M	QPSK	1	0				0	25.5
		1	24				0	25.5
		1	49				0	25.5
		25	0				1	24.5
		25	12				1	24.5
		25	25				1	24.5
		50	0				1	24.5
		1	0				1	24.5
	16QAM	1	24				1	24.5
		1	49				1	24.5
		25	0				2	23.5
		25	12				2	23.5
		25	25				2	23.5
		50	0				2	23.5
		1	0				2	23.5
		1	24				2	23.5
	64QAM	1	49				2	23.5
		25	0				3	22.5
		25	12				3	22.5
		25	25				3	22.5
		50	0				3	22.5
		Channel		37775	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5		
5M	QPSK	1	0				0	25.5
		1	12				0	25.5
		1	24				0	25.5
		12	0				1	24.5
		12	6				1	24.5
		12	13				1	24.5
		25	0				1	24.5
		1	0				1	24.5
	16QAM	1	12				1	24.5
		1	24				1	24.5
		12	0				2	23.5
		12	6				2	23.5
		12	13				2	23.5
		25	0				2	23.5
		1	0				2	23.5
		1	12				2	23.5
	64QAM	1	24				2	23.5
		12	0				3	22.5
		12	6				3	22.5
		12	13				3	22.5
		25	0				3	22.5

LTE Band 38_Ant4 (DS11)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		37850	38000	38150		
		Frequency (MHz)		2580	2595	2610		
20M	QPSK	1	0	20.04	20.07	20.08	0	21
		1	50	20.12	20.19	20.14	0	21
		1	99	20.10	20.08	19.96	0	21
		50	0	20.03	20.05	20.05	0	21
		50	25	20.06	20.13	20.09	0	21
		50	50	19.96	20.02	19.91	0	21
		100	0	20.04	20.10	20.06	0	21
		1	0	19.95	19.99	20.05	0	21
	16QAM	1	50	20.04	20.13	19.94	0	21
		1	99	20.10	19.98	20.06	0	21
		50	0	19.96	20.03	20.09	0	21
		50	25	19.93	20.00	20.04	0	21
		50	50	20.00	20.16	19.96	0	21
		100	0	19.95	20.04	20.08	0	21
		1	0	20.06	19.93	19.92	0	21
		1	50	20.00	20.08	20.08	0	21
	64QAM	1	99	19.98	19.97	20.05	0	21
		50	0	20.11	20.10	20.08	0	21
		50	25	20.11	20.08	20.01	0	21
		50	50	19.92	19.93	19.97	0	21
		100	0	20.02	19.92	20.00	0	21
		Channel		37825	38000	38175	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2577.5	2595	2612.5		
15M	QPSK	1	0				0	21
		1	37				0	21
		1	74				0	21
		36	0				0	21
		36	19				0	21
		36	39				0	21
		75	0				0	21
		1	0				0	21
	16QAM	1	37				0	21
		1	74				0	21
		36	0				0	21
		36	19				0	21
		36	39				0	21
		75	0				0	21
		1	0				0	21
		1	37				0	21
	64QAM	1	74				0	21
		36	0				0	21
		36	19				0	21
		36	39				0	21
		75	0				0	21
		Channel		37800	38000	38200	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2575	2595	2615		
10M	QPSK	1	0				0	21
		1	24				0	21
		1	49				0	21
		25	0				0	21
		25	12				0	21
		25	25				0	21
		50	0				0	21
		1	0				0	21
	16QAM	1	24				0	21
		1	49				0	21
		25	0				0	21
		25	12				0	21
		25	25				0	21
		50	0				0	21
		1	0				0	21
		1	24				0	21
	64QAM	1	49				0	21
		25	0				0	21
		25	12				0	21
		25	25				0	21
		50	0				0	21
		Channel		37775	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5		
5M	QPSK	1	0				0	21

LTE Band 41_Ant1 (DS1)										
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel Frequency (MHz)	2506	2549.5	2593	2636.5	2680			
20M	QPSK	1	0	24.31	24.47	24.52	24.27	24.24	0	25.5
		1	50	24.50	24.66	24.76	24.49	24.42	0	25.5
		1	99	24.21	24.37	24.32	24.14	24.28	0	25.5
		50	0	23.31	23.39	23.42	23.37	23.26	1	24.5
		50	25	23.38	23.43	23.55	23.38	23.32	1	24.5
		50	50	23.32	23.35	23.40	23.31	23.24	1	24.5
	16QAM	100	0	23.24	23.55	23.61	23.44	23.36	1	24.5
		1	0	23.38	23.48	23.49	23.19	23.16	1	24.5
		1	50	23.51	23.70	23.70	23.48	23.36	1	24.5
		1	99	23.05	23.26	23.35	23.06	23.21	1	24.5
		50	0	22.20	22.47	22.65	22.47	22.41	2	23.5
		50	25	22.29	22.42	22.59	22.53	22.36	2	23.5
	64QAM	50	50	22.25	22.41	22.68	22.34	22.42	2	23.5
		100	0	22.34	22.53	22.63	22.41	22.36	2	23.5
		1	0	21.95	21.92	22.01	22.01	21.9	2	23.5
		1	50	22.09	22.16	22.23	22.09	21.96	2	23.5
		1	99	21.97	21.97	22.01	21.92	22.08	2	23.5
		50	0	21.34	21.53	21.59	21.38	21.17	3	22.5
		50	25	21.27	21.45	21.64	21.42	21.39	3	22.5
		50	50	21.28	21.41	21.58	21.42	21.23	3	22.5
		100	0	21.30	21.55	21.54	21.36	21.25	3	22.5
BW	Modulation	Channel Frequency (MHz)	39725	40173	40620	41068	41515	3GPP MPR (dB)	Max. Tune-up (dBm)	
15M	QPSK	1	0						0	25.5
		1	37						0	25.5
		1	74						0	25.5
		36	0						1	24.5
		36	19						1	24.5
		36	39						1	24.5
	16QAM	75	0						1	24.5
		1	0						1	24.5
		1	37						1	24.5
		1	74						1	24.5
		36	0						2	23.5
		36	19						2	23.5
	64QAM	36	39						2	23.5
		75	0						2	23.5
		1	0						2	23.5
		1	37						2	23.5
		1	74						2	23.5
		36	0						3	22.5
		36	19						3	22.5
		36	39						3	22.5
		75	0						3	22.5
BW	Modulation	Channel Frequency (MHz)	39700	40160	40620	41080	41540	3GPP MPR (dB)	Max. Tune-up (dBm)	
10M	QPSK	1	0						0	25.5
		1	24						0	25.5
		1	49						0	25.5
		25	0						1	24.5
		25	12						1	24.5
		25	25						1	24.5
	16QAM	50	0						1	24.5
		1	0						1	24.5
		1	24						1	24.5
		1	49						1	24.5
		25	0						2	23.5
		25	12						2	23.5
	64QAM	25	25						2	23.5
		50	0						2	23.5
		1	0						2	23.5
		1	24						2	23.5
		1	49						2	23.5
		25	0						3	22.5
		25	12						3	22.5
		25	25						3	22.5
		50	0						3	22.5
BW	Modulation	Channel Frequency (MHz)	39675	40148	40620	41093	41565	3GPP MPR (dB)	Max. Tune-up (dBm)	
5M	QPSK	1	0						0	25.5
		1	12						0	25.5
		1	24						0	25.5
		12	0						1	24.5
		12	6						1	24.5
		12	13						1	24.5
	16QAM	25	0						1	24.5
		1	0						1	24.5
		1	12						1	24.5
		1	24						1	24.5
		12	0						2	23.5
		12	6						2	23.5
	64QAM	12	13						2	23.5
		25	0						2	23.5
		1	0						2	23.5
		1	12						2	23.5
		1	24						2	23.5
		12	0						3	22.5
		12	6						3	22.5
		12	13						3	22.5
		25	0						3	22.5

LTE Band 41_Ant4 (DS1)											
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel	Frequency (MHz)	39750	40185	40620	41055	41490	2860		
20M	QPSK	1	0	19.82	19.78	19.76	19.68	19.75	0	21	
		1	50	19.86	19.97	20.05	19.88	19.96	0	21	
		1	99	19.73	19.78	19.66	19.79	19.82	0	21	
		50	0	19.81	19.75	19.78	19.77	19.77	0	21	
		50	25	19.87	19.78	20.01	19.92	19.84	0	21	
		50	50	19.82	19.77	19.89	19.83	19.72	0	21	
		100	0	19.76	19.65	19.89	19.80	19.73	0	21	
	16QAM	1	0	19.67	19.81	19.62	19.65	19.68	0	21	
		1	50	19.68	19.78	19.67	19.78	19.78	0	21	
		1	99	19.61	19.63	19.90	19.68	19.70	0	21	
		50	0	19.65	19.85	19.66	19.67	19.63	0	21	
		50	25	19.57	19.65	19.70	19.65	19.79	0	21	
		50	50	19.71	19.83	19.72	19.62	19.73	0	21	
		100	0	19.76	19.62	19.72	19.72	19.73	0	21	
	64QAM	1	0	19.79	19.66	19.75	19.80	19.77	0	21	
		1	50	19.67	19.74	19.68	19.72	19.78	0	21	
		1	99	19.68	19.72	19.79	19.74	19.64	0	21	
		50	0	19.72	19.60	19.71	19.77	19.74	0	21	
		50	25	19.72	19.76	19.75	19.76	19.70	0	21	
		50	50	19.77	19.68	19.62	19.71	19.77	0	21	
		100	0	19.66	19.62	19.78	19.68	19.63	0	21	
	BW	Modulation	Channel	39725	40173	40620	41068	41515	3GPP MPR (dB)	Max. Tune-up (dBm)	
	15M	QPSK	1	0	2503.5	2548.3	2593	2637.8	2682.5	0	21
			1	37						0	21
1			74						0	21	
36			0						0	21	
36			19						0	21	
36			39						0	21	
75			0						0	21	
16QAM		1	0						0	21	
		1	37						0	21	
		1	74						0	21	
		36	0						0	21	
		36	19						0	21	
		36	39						0	21	
		75	0						0	21	
64QAM		1	0						0	21	
		1	37						0	21	
		1	74						0	21	
		36	0						0	21	
		36	19						0	21	
		36	39						0	21	
		75	0						0	21	
BW		Modulation	Channel	39790	40160	40620	41080	41540	3GPP MPR (dB)	Max. Tune-up (dBm)	
10M		QPSK	1	0	2501	2547	2593	2639	2685	0	21
			1	24						0	21
	1		49						0	21	
	25		0						0	21	
	25		12						0	21	
	25		25						0	21	
	50		0						0	21	
	16QAM	1	0						0	21	
		1	24						0	21	
		1	49						0	21	
		25	0						0	21	
		25	12						0	21	
		25	25						0	21	
		50	0						0	21	
	64QAM	1	0						0	21	
		1	24						0	21	
		1	49						0	21	
		25	0						0	21	
		25	12						0	21	
		25	25						0	21	
		50	0						0	21	
	BW	Modulation	Channel	39675	40148	40620	41093	41565	3GPP MPR (dB)	Max. Tune-up (dBm)	
	5M	QPSK	1	0	2498.5	2545.8	2593	2640.3	2687.5	0	21
			1	12						0	21
1			24						0	21	
12			0						0	21	
12			6						0	21	
12			13						0	21	
25			0						0	21	
16QAM		1	0						0	21	
		1	12						0	21	
		1	24						0	21	
		12	0						0	21	
		12	6						0	21	
		12	13						0	21	
		25	0						0	21	
64QAM		1	0						0	21	
		1	12						0	21	
		1	24						0	21	
		12	0						0	21	
		12	6						0	21	
		12	13						0	21	
		25	0						0	21	

LTE_DSI 1

LTE Band 66_Ant1 (DS1)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel Frequency (MHz)	132672 1729	132322 1745	132572 1776			
20M	QPSK	1	0	24.40	24.36	24.45	0	25.5
		50	0	24.53	24.49	24.69	0	25.5
		1	99	24.42	24.41	24.54	0	25.5
		50	0	23.50	23.45	23.52	1	24.5
		50	25	23.57	23.53	23.69	1	24.5
		50	50	23.54	23.42	23.50	1	24.5
	16QAM	100	0	23.50	23.43	23.55	1	24.5
		1	0	23.48	23.55	23.46	1	24.5
		1	50	23.76	23.71	23.91	1	24.5
		1	99	23.65	23.37	23.47	1	24.5
		50	0	22.54	22.36	22.72	2	23.5
		50	25	22.56	22.41	22.63	2	23.5
	64QAM	50	50	22.55	22.40	22.49	2	23.5
		100	0	22.55	22.37	22.55	2	23.5
		1	0	22.48	22.40	22.44	2	23.5
		1	50	22.80	22.71	22.81	2	23.5
		1	99	22.47	22.46	22.54	2	23.5
		50	0	21.43	21.41	21.62	3	22.5
15M	QPSK	50	25	21.61	21.45	21.59	3	22.5
		50	50	21.58	21.36	21.53	3	22.5
		100	0	21.47	21.36	21.58	3	22.5
	16QAM	1	0					
		1	37					
		1	74					
		36	0				1	24.5
		36	19				1	24.5
		36	39				1	24.5
	64QAM	75	0				1	24.5
		1	0				1	24.5
		1	37				1	24.5
		1	74				1	24.5
		36	0				2	23.5
		36	19				2	23.5
10M	QPSK	36	39				2	23.5
		75	0				2	23.5
	16QAM	1	0				2	23.5
		1	37				2	23.5
		1	74				2	23.5
		36	0				3	22.5
	64QAM	36	19				3	22.5
		36	39				3	22.5
		75	0				3	22.5
5M	QPSK	1	0				0	25.5
		1	24				0	25.5
		1	49				0	25.5
		25	0				1	24.5
		25	12				1	24.5
		25	25				1	24.5
	16QAM	50	0				1	24.5
		1	0				1	24.5
		1	24				1	24.5
		1	49				1	24.5
		25	0				2	23.5
		25	12				2	23.5
	64QAM	25	25				2	23.5
		50	0				2	23.5
		1	0				2	23.5
		1	24				2	23.5
		1	49				2	23.5
		25	0				3	22.5
3M	QPSK	25	0				3	22.5
		25	12				3	22.5
		25	25				3	22.5
	16QAM	50	0				3	22.5
		1	0				3	22.5
		1	24				3	22.5
	64QAM	1	49				3	22.5
		25	0				3	22.5
		25	12				3	22.5
		25	25				3	22.5
		50	0				3	22.5
		50	0				3	22.5
1.4M	QPSK	1	0				0	25.5
		1	7				0	25.5
		1	14				0	25.5
		8	0				1	24.5
		8	3				1	24.5
		8	7				1	24.5
	16QAM	15	0				1	24.5
		1	0				1	24.5
		1	7				1	24.5
		1	14				1	24.5
		8	0				2	23.5
		8	3				2	23.5
	64QAM	8	7				2	23.5
		15	0				2	23.5
		1	0				2	23.5
		1	7				2	23.5
		1	14				2	23.5
		8	0				3	22.5
1.4M	QPSK	8	3				3	22.5
		8	7				3	22.5
		15	0				3	22.5
		1	0				3	22.5
		1	7				3	22.5
		1	14				3	22.5
	16QAM	8	0				3	22.5
		8	3				3	22.5
		8	7				3	22.5
		15	0				3	22.5
		1	0				3	22.5
		1	7				3	22.5
1.4M	QPSK	1	14				3	22.5
		8	0				3	22.5
		8	3				3	22.5
		8	7				3	22.5
		15	0				3	22.5
		1	0				3	22.5
	16QAM	1	7				3	22.5
		1	14				3	22.5
		8	0				3	22.5
		8	3				3	22.5
		8	7				3	22.5
		15	0				3	22.5
1.4M	QPSK	1	0				0	25.5
		1	2				0	25.5
		1	5				0	25.5
		3	0				0	25.5
		3	1				0	25.5
		3	3				0	25.5
	16QAM	6	0				1	24.5
		1	0				1	24.5
		1	2				1	24.5
		1	5				1	24.5
		3	0				1	24.5
		3	1				1	24.5
1.4M	QPSK	3	3				1	24.5
		6	0				2	23.5
		1	0				2	23.5
		1	2				2	23.5
		1	5				2	23.5
		3	0				2	23.5
	16QAM	3	1				2	23.5
		3	3				2	23.5
		6	0				2	23.5
		1	0				2	23.5
		1	2				2	23.5
		1	5				2	23.5
1.4M	QPSK	3	0				2	23.5
		3	1				2	23.5
		3	3				2	23.5
		6	0				2	23.5
		1	0				2	23.5
		1	2				2	23.5
1.4M	QPSK	1	5				2	23.5
		3	0				2	23.5
		3	1				2	23.5
		3	3				2	23.5
		6	0				2	23.5
		1	0				2	23.5

LTE Band 66 Ant4 (DS1)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel Frequency (MHz)		132672 1726	132322 1745	132572 1770			
20M	QPSK	1	0	14.79	14.87	14.72	0	16	
		1	50	14.85	14.80	14.88	0	16	
		1	99	14.66	14.79	14.81	0	16	
		50	0	14.78	14.71	14.88	0	16	
		50	25	14.83	14.76	14.93	0	16	
		50	50	14.78	14.62	14.86	0	16	
	16QAM	100	0	14.62	14.81	14.85	0	16	
		1	0	14.55	14.74	14.59	0	16	
		1	50	14.67	14.72	14.54	0	16	
		1	99	14.52	14.62	14.82	0	16	
		50	0	14.52	14.73	14.59	0	16	
		50	25	14.49	14.54	14.66	0	16	
	64QAM	50	50	14.70	14.73	14.64	0	16	
		100	0	14.69	14.59	14.63	0	16	
		1	0	14.76	14.55	14.73	0	16	
		1	50	14.53	14.70	14.66	0	16	
		1	99	14.54	14.64	14.78	0	16	
		50	0	14.65	14.49	14.70	0	16	
	15M	QPSK	50	25	14.65	14.73	14.68	0	16
			50	50	14.76	14.60	14.85	0	16
			100	0	14.51	14.56	14.71	0	16
			1	0	14.54	14.58	14.74	0	16
			1	99	14.54	14.64	14.78	0	16
			50	0	14.65	14.49	14.70	0	16
16QAM		50	25	14.65	14.73	14.68	0	16	
		50	50	14.76	14.60	14.85	0	16	
		100	0	14.51	14.56	14.71	0	16	
		1	0	14.54	14.58	14.74	0	16	
		1	37				0	16	
		1	74				0	16	
64QAM		36	0				0	16	
		36	19				0	16	
		36	39				0	16	
		75	0				0	16	
		1	0				0	16	
		1	37				0	16	
10M		QPSK	1	24				0	16
			1	49				0	16
			25	0				0	16
			25	12				0	16
			25	25				0	16
			50	0				0	16
	16QAM	1	24				0	16	
		1	49				0	16	
		25	0				0	16	
		25	12				0	16	
		25	25				0	16	
		50	0				0	16	
	64QAM	1	0				0	16	
		1	24				0	16	
		1	49				0	16	
		25	0				0	16	
		25	12				0	16	
		25	25				0	16	
	5M	QPSK	1	0				0	16
			1	12				0	16
			1	24				0	16
			12	0				0	16
			12	6				0	16
			12	13				0	16
16QAM		25	0				0	16	
		1	0				0	16	
		1	12				0	16	
		1	24				0	16	
		12	0				0	16	
		12	6				0	16	
64QAM		12	13				0	16	
		25	0				0	16	
		1	0				0	16	
		1	12				0	16	
		1	24				0	16	
		12	0				0	16	
3M		QPSK	12	6				0	16
			12	13				0	16
			25	0				0	16
			1	0				0	16
			1	12				0	16
			1	24				0	16
	16QAM	12	0				0	16	
		12	6				0	16	
		12	13				0	16	
		25	0				0	16	
		1	0				0	16	
		1	14				0	16	
	64QAM	8	0				0	16	
		8	3				0	16	
		8	7				0	16	
		15	0				0	16	
		1	0				0	16	
		1	7				0	16	
	1.4M	QPSK	1	0				0	16
			1	2				0	16
			1	5				0	16
			3	0				0	16
			3	3				0	16
			6	0				0	16
16QAM		1	0				0	16	
		1	2				0	16	
		1	5				0	16	
		3	0				0	16	
		3	3				0	16	
		6	0				0	16	
64QAM		1	0				0	16	
		1	2				0	16	
		1	5				0	16	
		3	0				0	16	
		3	3				0	16	
		6	0				0	16	

LTE_DSI 2&3

LTE Band 2_Ant1 (DSI2&3)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Time-up (dBm)	
		Channel	Frequency (MHz)	18700	18900	19100			
		Frequency (MHz)	1860	1880	1900				
20M	QPSK	1	0	20.29	20.28	20.25	0	21.5	
		1	50	20.31	20.42	20.36	0	21.5	
		1	99	20.24	20.34	20.33	0	21.5	
		50	0	20.23	20.25	20.27	0	21.5	
		50	25	20.27	20.36	20.31	0	21.5	
		50	50	20.21	20.29	20.24	0	21.5	
	16QAM	100	0	20.25	20.31	20.26	0	21.5	
		1	0	20.26	20.21	20.23	0	21.5	
		1	50	20.27	20.31	20.28	0	21.5	
		1	99	20.30	20.35	20.26	0	21.5	
		50	0	20.29	20.13	20.24	0	21.5	
		50	25	20.32	20.22	20.28	0	21.5	
	64QAM	50	50	20.36	20.26	20.27	0	21.5	
		100	0	20.22	20.15	20.26	0	21.5	
		1	0	20.11	20.20	20.20	0	21.5	
		1	50	20.23	20.13	20.29	0	21.5	
		1	99	20.14	20.14	20.22	0	21.5	
		50	0	20.18	20.08	20.15	0	21.5	
	3M	QPSK	50	25	20.07	20.24	20.21	0	21.5
			50	50	19.96	20.00	19.99	0	21.5
			100	0	20.10	20.02	20.05	0	21.5
Channel			1867.5	1890.0	1912.5	3GPP MPR (dB)	Max. Time-up (dBm)		
15M	QPSK	1	0				0	21.5	
		1	37				0	21.5	
		1	74				0	21.5	
		36	0				0	21.5	
		36	19				0	21.5	
		36	39				0	21.5	
	16QAM	75	0				0	21.5	
		1	0				0	21.5	
		1	37				0	21.5	
		1	74				0	21.5	
		36	0				0	21.5	
		36	19				0	21.5	
	64QAM	36	39				0	21.5	
		75	0				0	21.5	
		1	0				0	21.5	
		1	37				0	21.5	
		1	74				0	21.5	
		36	0				0	21.5	
	3M	QPSK	36	0				0	21.5
			36	19				0	21.5
			36	39				0	21.5
75			0				0	21.5	
Channel			1865.0	1887.5	1910.0	3GPP MPR (dB)	Max. Time-up (dBm)		
10M			QPSK	1	0				0
	1	24					0	21.5	
	1	49					0	21.5	
	25	0					0	21.5	
	25	12					0	21.5	
	25	25					0	21.5	
	16QAM	50	0				0	21.5	
		1	0				0	21.5	
		1	24				0	21.5	
		1	49				0	21.5	
		25	0				0	21.5	
		25	12				0	21.5	
	64QAM	25	25				0	21.5	
		50	0				0	21.5	
		1	0				0	21.5	
		1	24				0	21.5	
		1	49				0	21.5	
		25	0				0	21.5	
	3M	QPSK	25	12				0	21.5
			25	25				0	21.5
			50	0				0	21.5
Channel			1862.5	1885.0	1907.5	3GPP MPR (dB)	Max. Time-up (dBm)		
5M	QPSK	1	0				0	21.5	
		1	12				0	21.5	
		1	24				0	21.5	
		12	0				0	21.5	
		12	6				0	21.5	
		12	13				0	21.5	
	16QAM	25	0				0	21.5	
		1	0				0	21.5	
		1	12				0	21.5	
		1	24				0	21.5	
		12	0				0	21.5	
		12	6				0	21.5	
	64QAM	12	13				0	21.5	
		25	0				0	21.5	
		1	0				0	21.5	
		1	12				0	21.5	
		1	24				0	21.5	
		12	0				0	21.5	
	3M	QPSK	12	6				0	21.5
			12	13				0	21.5
			25	0				0	21.5
Channel			1859.5	1882.0	1904.5	3GPP MPR (dB)	Max. Time-up (dBm)		
3M	QPSK	1	0				0	21.5	
		1	7				0	21.5	
		1	14				0	21.5	
		8	0				0	21.5	
		8	3				0	21.5	
		8	7				0	21.5	
	16QAM	15	0				0	21.5	
		1	0				0	21.5	
		1	7				0	21.5	
		1	14				0	21.5	
		8	0				0	21.5	
		8	3				0	21.5	
	64QAM	8	7				0	21.5	
		15	0				0	21.5	
		1	0				0	21.5	
		1	7				0	21.5	
		1	14				0	21.5	
		8	0				0	21.5	
	3M	QPSK	8	3				0	21.5
			8	7				0	21.5
			15	0				0	21.5
Channel			1856.5	1879.0	1901.5	3GPP MPR (dB)	Max. Time-up (dBm)		
1.4M	QPSK	1	0				0	21.5	
		1	2				0	21.5	
		1	5				0	21.5	
		3	0				0	21.5	
		3	3				0	21.5	
		6	0				0	21.5	
	16QAM	1	0				0	21.5	
		1	2				0	21.5	
		1	5				0	21.5	
		3	0				0	21.5	
		3	3				0	21.5	
		6	0				0	21.5	
	64QAM	1	0				0	21.5	
		1	2				0	21.5	
		1	5				0	21.5	
		3	0				0	21.5	
		3	3				0	21.5	
		6	0				0	21.5	

LTE Band 2_Ant4 (DS3)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Time-up (dBm)	
		Channel	Frequency (MHz)	18700	18900	19100			
20M	QPSK	1	0	18.71	18.75	18.77	0	20	
		1	50	18.84	18.82	18.86	0	20	
		1	99	18.81	18.74	18.62	0	20	
		50	0	18.68	18.73	18.71	0	20	
		50	25	18.78	18.78	18.82	0	20	
		50	50	18.72	18.66	18.75	0	20	
	16QAM	100	0	18.74	18.77	18.79	0	20	
		1	0	18.67	18.73	18.71	0	20	
		1	50	18.70	18.84	18.83	0	20	
		1	99	18.73	18.64	18.75	0	20	
		50	0	18.65	18.62	18.71	0	20	
		50	25	18.67	18.68	18.68	0	20	
	64QAM	50	50	18.73	18.84	18.66	0	20	
		100	0	18.62	18.66	18.72	0	20	
		1	0	18.76	18.65	18.64	0	20	
		1	50	18.63	18.71	18.74	0	20	
		1	99	18.71	18.63	18.78	0	20	
		50	0	18.84	18.70	18.67	0	20	
		50	25	18.73	18.68	18.69	0	20	
		50	50	18.81	18.65	18.67	0	20	
BW	Modulation	Channel	Frequency (MHz)	1867.5	1880	1912.5	3GPP MPR (dB)	Max. Time-up (dBm)	
		Frequency (MHz)	1867.5	1880	1902.5				
15M	QPSK	1	0				0	20	
		1	37				0	20	
		1	74				0	20	
		36	0				0	20	
		36	19				0	20	
		36	39				0	20	
	16QAM	75	0				0	20	
		1	0				0	20	
		1	37				0	20	
		36	0				0	20	
		36	19				0	20	
		36	39				0	20	
	64QAM	75	0				0	20	
		1	0				0	20	
		1	37				0	20	
		1	74				0	20	
		36	0				0	20	
		36	19				0	20	
		36	39				0	20	
		75	0				0	20	
BW	Modulation	Channel	Frequency (MHz)	1962.5	1980	1915.5	3GPP MPR (dB)	Max. Time-up (dBm)	
		Frequency (MHz)	1958	1980	1905				
10M	QPSK	1	0				0	20	
		1	24				0	20	
		1	49				0	20	
		25	0				0	20	
		25	12				0	20	
		25	25				0	20	
	16QAM	50	0				0	20	
		1	0				0	20	
		1	24				0	20	
		1	49				0	20	
		25	0				0	20	
		25	12				0	20	
	64QAM	25	25				0	20	
		50	0				0	20	
		1	0				0	20	
		1	24				0	20	
		1	49				0	20	
		25	0				0	20	
		25	12				0	20	
		50	0				0	20	
BW	Modulation	Channel	Frequency (MHz)	1962.5	1980	1917.5	3GPP MPR (dB)	Max. Time-up (dBm)	
		Frequency (MHz)	1958.5	1980	1907.5				
5M	QPSK	1	0				0	20	
		1	12				0	20	
		1	24				0	20	
		12	0				0	20	
		12	6				0	20	
		12	13				0	20	
	16QAM	25	0				0	20	
		1	0				0	20	
		1	12				0	20	
		1	24				0	20	
		12	0				0	20	
		12	6				0	20	
	64QAM	12	13				0	20	
		25	0				0	20	
		1	0				0	20	
		1	12				0	20	
		1	24				0	20	
		12	0				0	20	
		12	6				0	20	
		12	13				0	20	
BW	Modulation	Channel	Frequency (MHz)	1961.5	1980	1918.5	3GPP MPR (dB)	Max. Time-up (dBm)	
		Frequency (MHz)	1951.5	1980	1908.5				
3M	QPSK	1	0				0	20	
		1	7				0	20	
		1	14				0	20	
		8	0				0	20	
		8	3				0	20	
		8	7				0	20	
	16QAM	15	0				0	20	
		1	0				0	20	
		1	7				0	20	
		1	14				0	20	
		8	0				0	20	
		8	3				0	20	
	64QAM	8	7				0	20	
		15	0				0	20	
		1	0				0	20	
		1	7				0	20	
		1	14				0	20	
		8	0				0	20	
		8	3				0	20	
		8	7				0	20	
BW	Modulation	Channel	Frequency (MHz)	1867	1880	1913	3GPP MPR (dB)	Max. Time-up (dBm)	
		Frequency (MHz)	1850.7	1880	1909.3				
1.4M	QPSK	1	0				0	20	
		1	2				0	20	
		1	5				0	20	
		3	1				0	20	
		3	3				0	20	
		6	0				0	20	
	16QAM	1	0				0	20	
		1	2				0	20	
		1	5				0	20	
		3	1				0	20	
		3	3				0	20	
		6	0				0	20	
	64QAM	6	0				0	20	
		1	0				0	20	
		1	2				0	20	
		1	5				0	20	
		3	0				0	20	
		3	1				0	20	
		3	3				0	20	
		6	0				0	20	

LTE Band 4 Ant1 (DS12x3)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	SCPP MPR (dB)	Max. Time-up (dBm)	
		Channel Frequency (MHz)	1728	20050 1732.5	20175 1732.5	20300 1748			
20M	QPSK	1	0	21.31	21.29	21.23	0	22.5	
		1	50	21.43	21.45	21.37	0	22.5	
		1	99	21.18	21.41	21.35	0	22.5	
		50	0	21.20	21.32	21.26	0	22.5	
		50	25	21.33	21.39	21.35	0	22.5	
		50	50	21.14	21.23	21.30	0	22.5	
		100	0	21.29	21.31	21.26	0	22.5	
		1	50	21.38	21.26	21.27	0	22.5	
		1	99	21.26	21.38	21.40	0	22.5	
		50	0	21.33	21.13	21.26	0	22.5	
	16QAM	50	25	21.36	21.28	21.22	0	22.5	
		50	50	21.43	21.39	21.39	0	22.5	
		100	0	21.27	21.09	21.23	0	22.5	
		1	0	21.21	21.19	21.32	0	22.5	
		1	50	21.20	21.22	21.30	0	22.5	
		1	99	21.12	21.10	21.17	0	22.5	
		50	0	21.35	21.14	21.36	0	22.5	
		50	25	21.20	21.37	21.23	0	22.5	
		50	50	21.18	21.21	21.10	0	22.5	
		100	0	21.31	21.14	21.21	0	22.5	
	64QAM	Channel	20026	20175	20326	SCPP MPR (dB)	Max. Time-up (dBm)		
		Frequency (MHz)	1717.5	1732.5	1747.5				
		1	0			0	22.5		
		1	37			0	22.5		
1		74			0	22.5			
36		0			0	22.5			
36		19			0	22.5			
36		39			0	22.5			
75		0			0	22.5			
1		0			0	22.5			
15M	QPSK	1	37			0	22.5		
		1	74			0	22.5		
		36	0			0	22.5		
		36	19			0	22.5		
		36	39			0	22.5		
	16QAM	1	0			0	22.5		
		1	37			0	22.5		
		1	74			0	22.5		
		36	0			0	22.5		
		36	19			0	22.5		
	64QAM	36	39			0	22.5		
		75	0			0	22.5		
		1	0			0	22.5		
		1	37			0	22.5		
		1	74			0	22.5		
	BW	Modulation	Channel	20000	20175	20300	SCPP MPR (dB)	Max. Time-up (dBm)	
			Frequency (MHz)	1715	1732.5	1750			
			1	0			0	22.5	
1			24			0	22.5		
1			49			0	22.5		
25			0			0	22.5		
25			12			0	22.5		
50			0			0	22.5		
10M	QPSK	1	24			0	22.5		
		1	49			0	22.5		
		25	0			0	22.5		
		25	12			0	22.5		
		50	0			0	22.5		
	16QAM	1	24			0	22.5		
		1	49			0	22.5		
		25	0			0	22.5		
		25	12			0	22.5		
		50	0			0	22.5		
	64QAM	1	0			0	22.5		
		1	24			0	22.5		
		1	49			0	22.5		
		25	0			0	22.5		
		25	12			0	22.5		
	BW	Modulation	Channel	19975	20175	20375	SCPP MPR (dB)	Max. Time-up (dBm)	
			Frequency (MHz)	1712.5	1732.5	1752.5			
			1	0			0	22.5	
1			12			0	22.5		
1			24			0	22.5		
12			0			0	22.5		
12			13			0	22.5		
25			0			0	22.5		
5M	QPSK	1	0			0	22.5		
		1	12			0	22.5		
		1	24			0	22.5		
		12	0			0	22.5		
		12	13			0	22.5		
	16QAM	25	0			0	22.5		
		1	0			0	22.5		
		1	12			0	22.5		
		1	24			0	22.5		
		12	0			0	22.5		
	64QAM	12	6			0	22.5		
		12	13			0	22.5		
		25	0			0	22.5		
		1	0			0	22.5		
		1	12			0	22.5		
	BW	Modulation	Channel	19965	20175	20385	SCPP MPR (dB)	Max. Time-up (dBm)	
			Frequency (MHz)	1711.5	1732.5	1753.5			
			1	0			0	22.5	
1			7			0	22.5		
1			14			0	22.5		
8			0			0	22.5		
8			7			0	22.5		
15			0			0	22.5		
3M	QPSK	1	0			0	22.5		
		1	7			0	22.5		
		1	14			0	22.5		
		8	0			0	22.5		
		8	7			0	22.5		
	16QAM	15	0			0	22.5		
		1	0			0	22.5		
		1	7			0	22.5		
		1	14			0	22.5		
		8	0			0	22.5		
	64QAM	8	7			0	22.5		
		15	0			0	22.5		
		1	0			0	22.5		
		1	7			0	22.5		
		1	14			0	22.5		
	1.4M	QPSK	Channel	19967	20175	20393	SCPP MPR (dB)	Max. Time-up (dBm)	
			Frequency (MHz)	1716.7	1732.5	1754.3			
			1	0			0	22.5	
1			2			0	22.5		
1			5			0	22.5		
3			0			0	22.5		
3			1			0	22.5		
6			0			0	22.5		
1			0			0	22.5		
1			2			0	22.5		
16QAM		1	5			0	22.5		
		3	0			0	22.5		
		3	1			0	22.5		
		6	0			0	22.5		
		1	0			0	22.5		
		1	2			0	22.5		
		1	5			0	22.5		
		3	1			0	22.5		
64QAM	3	1			0	22.5			
	3	3			0	22.5			
	6	0			0	22.5			
	1	0			0	22.5			
	1	2			0	22.5			
	1	5			0	22.5			

LTE Band 4_Ant4 (DS13)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Time-up (dBm)	
		Channel Frequency (MHz)	20050 1720	20175 1732.5	20300 1745				
20M	QPSK	1	0	17.31	17.27	17.23	0	18.5	
		1	50	17.30	17.39	17.36	0	18.5	
		1	99	17.28	17.28	17.25	0	18.5	
		50	0	17.12	17.18	17.26	0	18.5	
		50	25	17.26	17.31	17.29	0	18.5	
		50	50	17.21	17.27	17.23	0	18.5	
		100	0	17.26	17.29	17.15	0	18.5	
		1	0	17.23	17.24	17.28	0	18.5	
		1	50	17.23	17.34	17.24	0	18.5	
		1	99	17.26	17.16	17.37	0	18.5	
	16QAM	50	0	17.21	17.18	17.31	0	18.5	
		50	25	17.25	17.23	17.18	0	18.5	
		50	50	17.30	17.33	17.22	0	18.5	
		100	0	17.24	17.25	17.27	0	18.5	
		1	0	17.32	17.31	17.29	0	18.5	
		1	50	17.29	17.31	17.28	0	18.5	
		1	99	17.26	17.22	17.32	0	18.5	
		50	0	17.27	17.32	17.24	0	18.5	
		50	25	17.26	17.30	17.22	0	18.5	
		50	50	17.14	17.20	17.32	0	18.5	
100	0	17.37	17.29	17.22	0	18.5			
BW	Modulation	Channel Frequency (MHz)	20025 1717.5	20175 1732.5	20325 1747.5	3GPP MPR (dB)	Max. Time-up (dBm)		
15M	QPSK	1	0				0	18.5	
		1	37				0	18.5	
		1	74				0	18.5	
		36	0				0	18.5	
		36	19				0	18.5	
		36	39				0	18.5	
		75	0				0	18.5	
	16QAM	1	0				0	18.5	
		1	37				0	18.5	
		1	74				0	18.5	
		36	0				0	18.5	
		36	19				0	18.5	
		36	39				0	18.5	
		75	0				0	18.5	
	64QAM	1	0				0	18.5	
		1	37				0	18.5	
		1	74				0	18.5	
		36	0				0	18.5	
		36	19				0	18.5	
		36	39				0	18.5	
75	0				0	18.5			
BW	Modulation	Channel Frequency (MHz)	19975 1711.5	20175 1732.5	20375 1752.5	3GPP MPR (dB)	Max. Time-up (dBm)		
10M	QPSK	1	0				0	18.5	
		1	24				0	18.5	
		1	49				0	18.5	
		25	0				0	18.5	
		25	12				0	18.5	
		25	25				0	18.5	
		50	0				0	18.5	
	16QAM	1	0				0	18.5	
		1	24				0	18.5	
		1	49				0	18.5	
		25	0				0	18.5	
		25	12				0	18.5	
		25	25				0	18.5	
		50	0				0	18.5	
	64QAM	1	0				0	18.5	
		1	24				0	18.5	
		1	49				0	18.5	
		25	0				0	18.5	
		25	12				0	18.5	
		25	25				0	18.5	
50	0				0	18.5			
BW	Modulation	Channel Frequency (MHz)	19975 1711.5	20175 1732.5	20375 1752.5	3GPP MPR (dB)	Max. Time-up (dBm)		
5M	QPSK	1	0				0	18.5	
		1	12				0	18.5	
		1	24				0	18.5	
		12	0				0	18.5	
		12	6				0	18.5	
		12	13				0	18.5	
		25	0				0	18.5	
	16QAM	1	0				0	18.5	
		1	12				0	18.5	
		1	24				0	18.5	
		12	0				0	18.5	
		12	6				0	18.5	
		12	13				0	18.5	
		25	0				0	18.5	
	64QAM	1	0				0	18.5	
		1	12				0	18.5	
		1	24				0	18.5	
		12	0				0	18.5	
		12	6				0	18.5	
		12	13				0	18.5	
25	0				0	18.5			
BW	Modulation	Channel Frequency (MHz)	19965 1710.5	20175 1732.5	20385 1753.5	3GPP MPR (dB)	Max. Time-up (dBm)		
3M	QPSK	1	0				0	18.5	
		1	7				0	18.5	
		1	14				0	18.5	
		8	0				0	18.5	
		8	3				0	18.5	
		8	7				0	18.5	
		15	0				0	18.5	
	16QAM	1	0				0	18.5	
		1	7				0	18.5	
		1	14				0	18.5	
		8	0				0	18.5	
		8	3				0	18.5	
		8	7				0	18.5	
		15	0				0	18.5	
	64QAM	1	0				0	18.5	
		1	7				0	18.5	
		1	14				0	18.5	
		8	0				0	18.5	
		8	3				0	18.5	
		8	7				0	18.5	
15	0				0	18.5			
BW	Modulation	Channel Frequency (MHz)	19967 1710.5	20176 1732.5	20393 1754.3	3GPP MPR (dB)	Max. Time-up (dBm)		
1.4M	QPSK	1	0				0	18.5	
		1	2				0	18.5	
		1	5				0	18.5	
		3	0				0	18.5	
		3	1				0	18.5	
		6	0				0	18.5	
		1	0				0	18.5	
		1	2				0	18.5	
		1	5				0	18.5	
		3	0				0	18.5	
	16QAM	3	1				0	18.5	
		3	3				0	18.5	
		6	0				0	18.5	
		1	0				0	18.5	
		1	2				0	18.5	
		1	5				0	18.5	
		3	0				0	18.5	
		3	1				0	18.5	
		3	3				0	18.5	
		6	0				0	18.5	
64QAM	1	0				0	18.5		
	1	2				0	18.5		
	1	5				0	18.5		
	3	0				0	18.5		
	3	1				0	18.5		
	3	3				0	18.5		
	6	0				0	18.5		
	1	0				0	18.5		
	1	2				0	18.5		
	1	5				0	18.5		

LTE_DSI 2&3

LTE Band 5_Ant1 (DSI2&3)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20450	20525	20600		
		Frequency (MHz)		829	836.5	844		
10M	QPSK	1	0	24.42	24.39	24.32	0	25.5
		1	24	24.49	24.45	24.60	0	25.5
		1	49	24.28	24.30	24.42	0	25.5
		25	0	23.43	23.40	23.43	1	24.5
		25	12	23.45	23.42	23.47	1	24.5
		25	25	23.38	23.36	23.31	1	24.5
		50	0	23.37	23.41	23.43	1	24.5
		1	0	23.60	23.58	23.60	1	24.5
	16QAM	1	24	23.76	23.71	23.78	1	24.5
		1	49	23.57	23.57	23.60	1	24.5
		25	0	22.44	22.51	22.62	2	23.5
		25	12	22.48	22.58	22.54	2	23.5
		25	25	22.45	22.46	22.56	2	23.5
		50	0	22.47	22.55	22.37	2	23.5
		1	0	22.51	22.62	22.51	2	23.5
		1	24	22.72	22.64	22.57	2	23.5
	64QAM	1	49	22.61	22.62	22.77	2	23.5
		25	0	21.49	21.52	21.62	3	22.5
		25	12	21.46	21.54	21.51	3	22.5
		25	25	21.57	21.52	21.53	3	22.5
		50	0	21.53	21.46	21.47	3	22.5
		Channel		20425	20525	20625	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5		
5M	QPSK	1	0				0	25.5
		1	12				0	25.5
		1	24				0	25.5
		12	0				1	24.5
		12	6				1	24.5
		12	13				1	24.5
		25	0				1	24.5
		1	0				1	24.5
	16QAM	1	12				1	24.5
		1	24				1	24.5
		12	0				2	23.5
		12	6				2	23.5
		12	13				2	23.5
		25	0				2	23.5
		1	0				2	23.5
		1	12				2	23.5
	64QAM	1	24				2	23.5
		12	0				3	22.5
		12	6				3	22.5
		12	13				3	22.5
		25	0				3	22.5
		Channel		20415	20525	20635	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5		
3M	QPSK	1	0				0	25.5
		1	7				0	25.5
		1	14				0	25.5
		8	0				1	24.5
		8	3				1	24.5
		8	7				1	24.5
		15	0				1	24.5
		1	0				1	24.5
	16QAM	1	7				1	24.5
		1	14				1	24.5
		8	0				2	23.5
		8	3				2	23.5
		8	7				2	23.5
		15	0				2	23.5
		1	0				2	23.5
		1	7				2	23.5
	64QAM	1	14				2	23.5
		8	0				3	22.5
		8	3				3	22.5
		8	7				3	22.5
		15	0				3	22.5
		Channel		20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3		
1.4M	QPSK	1	0				0	25.5
		1	2				0	25.5
		1	5				0	25.5
		3	0				0	25.5
		3	1				0	25.5
		3	3				0	25.5
		6	0				1	24.5
		1	0				1	24.5
	16QAM	1	2				1	24.5
		1	5				1	24.5
		3	0				1	24.5
		3	1				1	24.5
		3	3				1	24.5
		6	0				2	23.5
		1	0				2	23.5
		1	2				2	23.5
	64QAM	1	5				2	23.5
		3	0				2	23.5
		3	1				2	23.5
		3	3				2	23.5
		6	0				3	22.5

LTE Band 5_Ant4 (DSI3)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20450	20525	20600		
		Frequency (MHz)		829	836.5	844		
10M	QPSK	1	0	23.51	23.40	23.37	0	24.5
		1	24	23.54	23.63	23.48	0	24.5
		1	49	23.30	23.48	23.46	0	24.5
		25	0	23.43	23.57	23.46	0	24.5
		25	12	23.36	23.47	23.42	0	24.5
		25	25	23.28	23.51	23.35	0	24.5
		50	0	23.35	23.50	23.48	0	24.5
		1	0	23.38	23.34	23.45	0	24.5
	16QAM	1	24	23.50	23.40	23.41	0	24.5
		1	49	23.39	23.59	23.43	0	24.5
		25	0	22.46	22.26	22.28	1	23.5
		25	12	22.47	22.41	22.32	1	23.5
		25	25	22.52	22.54	22.50	1	23.5
		50	0	22.44	22.31	22.38	1	23.5
		1	0	22.39	22.40	22.42	1	23.5
		1	24	22.36	22.23	22.38	1	23.5
	64QAM	1	49	22.29	22.28	22.37	1	23.5
		25	0	21.46	21.31	21.51	2	22.5
		25	12	21.25	21.55	21.35	2	22.5
		25	25	21.33	21.25	21.30	2	22.5
		50	0	21.34	21.21	21.32	2	22.5
		Channel		20425	20525	20625	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5		
5M		QPSK	1	0				0
	1		12				0	24.5
	1		24				0	24.5
	12		0				0	24.5
	12		6				0	24.5
	12		13				0	24.5
	25		0				0	24.5
	1		0				0	24.5
	16QAM	1	12				0	24.5
		1	24				0	24.5
		12	0				1	23.5
		12	6				1	23.5
		12	13				1	23.5
		25	0				1	23.5
		1	0				1	23.5
		1	12				1	23.5
	64QAM	1	24				1	23.5
		12	0				2	22.5
		12	6				2	22.5
		12	13				2	22.5
		25	0				2	22.5
		Channel		20415	20525	20635	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5		
3M		QPSK	1	0				0
	1		7				0	24.5
	1		14				0	24.5
	8		0				0	24.5
	8		3				0	24.5
	8		7				0	24.5
	15		0				0	24.5
	1		0				0	24.5
	16QAM	1	7				0	24.5
		1	14				0	24.5
		8	0				1	23.5
		8	3				1	23.5
		8	7				1	23.5
		15	0				1	23.5
		1	0				1	23.5
		1	7				1	23.5
	64QAM	1	14				1	23.5
		8	0				2	22.5
		8	3				2	22.5
		8	7				2	22.5
		15	0				2	22.5
		Channel		20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3		
1.4M		QPSK	1	0				0
	1		2				0	24.5
	1		5				0	24.5
	3		0				0	24.5
	3		1				0	24.5
	3		3				0	24.5
	6		0				0	24.5
	1		0				0	24.5
	16QAM	1	2				0	24.5
		1	5				0	24.5
		3	0				0	24.5
		3	1				0	24.5
		3	3				0	24.5
		6	0				1	23.5
		1	0				1	23.5
		1	2				1	23.5
	64QAM	1	5				1	23.5
		3	0				1	23.5
		3	1				1	23.5
		3	3				1	23.5
		6	0				2	22.5
		Channel		20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3		

LTE_DSI 2&3

LTE Band 7_Ant1 (DSI2&3)										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel		20850	21100	21350				
		Frequency (MHz)		2510	2535	2560				
20M	QPSK	1	0	20.34	20.36	20.39	0	21.5		
		1	50	20.39	20.43	20.52	0	21.5		
		1	99	20.33	20.39	20.47	0	21.5		
		50	0	20.18	20.27	20.34	0	21.5		
		50	25	20.34	20.38	20.49	0	21.5		
		50	50	20.25	20.25	20.40	0	21.5		
	16QAM	100	0	20.31	20.34	20.42	0	21.5		
		1	0	20.32	20.34	20.18	0	21.5		
		1	50	20.43	20.32	20.28	0	21.5		
		1	99	20.24	20.41	20.38	0	21.5		
		50	0	20.25	20.18	20.08	0	21.5		
		50	25	20.40	20.23	20.19	0	21.5		
	64QAM	50	50	20.44	20.38	20.34	0	21.5		
		100	0	20.30	20.30	20.14	0	21.5		
		1	0	20.13	20.25	20.29	0	21.5		
		1	50	20.23	20.30	20.22	0	21.5		
		1	99	20.22	20.18	20.16	0	21.5		
		50	0	20.23	20.20	20.09	0	21.5		
	64QAM	50	25	20.14	20.18	20.24	0	21.5		
		50	50	20.16	20.23	20.36	0	21.5		
		100	0	20.15	20.16	20.26	0	21.5		
		BW	Modulation	Channel		20825	21100	21375	3GPP MPR (dB)	Max. Tune-up (dBm)
				Frequency (MHz)		2507.5	2535	2562.5		
		15M	QPSK	1	0				0	21.5
1	37						0	21.5		
1	74						0	21.5		
36	0						0	21.5		
36	19						0	21.5		
36	39						0	21.5		
16QAM	75		0				0	21.5		
	1		0				0	21.5		
	1		37				0	21.5		
	1		74				0	21.5		
	36		0				0	21.5		
	36		19				0	21.5		
64QAM	36		39				0	21.5		
	75		0				0	21.5		
	1		0				0	21.5		
	1		37				0	21.5		
	1		74				0	21.5		
	36		0				0	21.5		
10M	QPSK		36	19				0	21.5	
			36	39				0	21.5	
			75	0				0	21.5	
			1	0				0	21.5	
			1	37				0	21.5	
			1	74				0	21.5	
	16QAM	36	0				0	21.5		
		36	19				0	21.5		
		36	39				0	21.5		
		75	0				0	21.5		
		1	0				0	21.5		
		1	37				0	21.5		
5M	QPSK	1	0				0	21.5		
		1	24				0	21.5		
		1	49				0	21.5		
		25	0				0	21.5		
		25	12				0	21.5		
		25	25				0	21.5		
	16QAM	50	0				0	21.5		
		1	0				0	21.5		
		1	24				0	21.5		
		1	49				0	21.5		
		25	0				0	21.5		
		25	12				0	21.5		
64QAM	25	25				0	21.5			
	50	0				0	21.5			
	1	0				0	21.5			
	1	24				0	21.5			
	1	49				0	21.5			
	25	0				0	21.5			
BW	Modulation	Channel		20775	21100	21425	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Frequency (MHz)		2502.5	2535	2567.5				
		QPSK	1	0				0	21.5	
			1	12				0	21.5	
			1	24				0	21.5	
			12	0				0	21.5	
	12		6				0	21.5		
	12		13				0	21.5		
	16QAM		25	0				0	21.5	
			1	0				0	21.5	
			1	12				0	21.5	
			1	24				0	21.5	
12			0				0	21.5		
12			6				0	21.5		
64QAM	12	13				0	21.5			
	25	0				0	21.5			
	1	0				0	21.5			
	1	12				0	21.5			
	1	24				0	21.5			
	12	0				0	21.5			
5M	QPSK	12	6				0	21.5		
		12	13				0	21.5		
		25	0				0	21.5		
		1	0				0	21.5		
		1	12				0	21.5		
		1	24				0	21.5		
	16QAM	12	0				0	21.5		
		12	6				0	21.5		
		12	13				0	21.5		
		25	0				0	21.5		
		1	0				0	21.5		
		1	12				0	21.5		
64QAM	1	24				0	21.5			
	12	0				0	21.5			
	12	6				0	21.5			
	12	13				0	21.5			
	25	0				0	21.5			
	25	0				0	21.5			

LTE_DSI 2&3

LTE Band 13_Ant1 (DS12&3)									
BW	Modulation	RB Size	RB Offset	Mid		3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel		23230					
		Frequency (MHz)		782					
10M	QPSK	1	0		24.48		0	25.5	
		1	24		24.50		0	25.5	
		1	49		24.35		0	25.5	
		25	0		23.52		1	24.5	
		25	12		23.56		1	24.5	
		25	25		23.48		1	24.5	
		50	0		23.53		1	24.5	
	16QAM	1	0		23.89		1	24.5	
		1	24		23.76		1	24.5	
		1	49		23.61		1	24.5	
		25	0		22.61		2	23.5	
		25	12		22.55		2	23.5	
		25	25		22.54		2	23.5	
		50	0		22.48		2	23.5	
	64QAM	1	0		22.70		2	23.5	
		1	24		22.82		2	23.5	
		1	49		22.62		2	23.5	
		25	0		21.58		3	22.5	
		25	12		21.54		3	22.5	
		25	25		21.52		3	22.5	
		50	0		21.48		3	22.5	
	BW	Modulation	Channel		23205	23230	23255	3GPP MPR (dB)	Max. Tune-up (dBm)
			Frequency (MHz)		779.5	782	784.5		
5M	QPSK	1	0				0	25.5	
		1	12				0	25.5	
		1	24				0	25.5	
		12	0				1	24.5	
		12	6				1	24.5	
		12	13				1	24.5	
		25	0				1	24.5	
	16QAM	1	0				1	24.5	
		1	12				1	24.5	
		1	24				1	24.5	
		12	0				2	23.5	
		12	6				2	23.5	
		12	13				2	23.5	
		25	0				2	23.5	
	64QAM	1	0				2	23.5	
		1	12				2	23.5	
		1	24				2	23.5	
		12	0				3	22.5	
		12	6				3	22.5	
		12	13				3	22.5	
		25	0				3	22.5	

LTE Band 13_Ant4 (DSI3)									
BW	Modulation	RB Size	RB Offset	Mid		3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel		23230					
		Frequency (MHz)		782					
10M	QPSK	1	0		23.26		0	24.5	
		1	24		23.28		0	24.5	
		1	49		22.99		0	24.5	
		25	0		23.18		0	24.5	
		25	12		23.24		0	24.5	
		25	25		23.11		0	24.5	
		50	0		23.13		0	24.5	
	16QAM	1	0		23.19		0	24.5	
		1	24		23.27		0	24.5	
		1	49		23.13		0	24.5	
		25	0		22.36		1	23.5	
		25	12		22.32		1	23.5	
		25	25		22.44		1	23.5	
		50	0		22.43		1	23.5	
	64QAM	1	0		22.25		1	23.5	
		1	24		22.29		1	23.5	
		1	49		22.19		1	23.5	
		25	0		21.33		2	22.5	
		25	12		21.16		2	22.5	
		25	25		21.30		2	22.5	
		50	0		21.26		2	22.5	
	BW	Modulation	Channel		23205	23230	23255	3GPP MPR (dB)	Max. Tune-up (dBm)
			Frequency (MHz)		779.5	782	784.5		
5M	QPSK	1	0				0	24.5	
		1	12				0	24.5	
		1	24				0	24.5	
		12	0				0	24.5	
		12	6				0	24.5	
		12	13				0	24.5	
		25	0				0	24.5	
	16QAM	1	0				0	24.5	
		1	12				0	24.5	
		1	24				0	24.5	
		12	0				1	23.5	
		12	6				1	23.5	
		12	13				1	23.5	
		25	0				1	23.5	
	64QAM	1	0				1	23.5	
		1	12				1	23.5	
		1	24				1	23.5	
		12	0				2	22.5	
		12	6				2	22.5	
		12	13				2	22.5	
		25	0				2	22.5	

LTE_DSI 2&3

LTE Band 26_Ant1 (DS12&3)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		26765	26865	26965			
		Frequency (MHz)		821.5	831.5	841.5			
15M	QPSK	1	0	24.37	24.39	24.46	0	25.5	
		1	37	24.48	24.45	24.52	0	25.5	
		1	74	24.41	24.33	24.44	0	25.5	
		36	0	23.57	23.59	23.52	1	24.5	
		36	19	23.60	23.66	23.69	1	24.5	
		36	39	23.56	23.63	23.56	1	24.5	
		75	0	23.68	23.57	23.58	1	24.5	
		1	0	23.68	23.74	23.80	1	24.5	
	16QAM	1	37	23.72	23.86	23.74	1	24.5	
		1	74	23.71	23.69	23.59	1	24.5	
		36	0	22.56	22.56	22.55	2	23.5	
		36	19	22.59	22.66	22.63	2	23.5	
		36	39	22.61	22.55	22.62	2	23.5	
		75	0	22.56	22.70	22.64	2	23.5	
		1	0	22.73	22.73	22.65	2	23.5	
		1	37	22.82	22.72	22.82	2	23.5	
	64QAM	1	74	22.68	22.69	22.68	2	23.5	
		36	0	21.57	21.66	21.58	3	22.5	
		36	19	21.58	21.68	21.58	3	22.5	
		36	39	21.53	21.56	21.56	3	22.5	
		75	0	21.47	21.67	21.61	3	22.5	
		Channel		26740	26865	26990	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		819	831.5	844			
	QPSK	1	0				0	25.5	
		1	24				0	25.5	
		1	49				0	25.5	
		25	0				1	24.5	
		25	12				1	24.5	
		25	25				1	24.5	
		50	0				1	24.5	
		1	0				1	24.5	
10M	QPSK	1	24				0	25.5	
		1	49				0	25.5	
		25	0				1	24.5	
		25	12				1	24.5	
		25	25				1	24.5	
		50	0				1	24.5	
	16QAM	1	0				1	24.5	
		1	24				1	24.5	
		1	49				1	24.5	
		25	0				2	23.5	
		25	12				2	23.5	
		25	25				2	23.5	
		50	0				2	23.5	
	64QAM	1	0				2	23.5	
		1	24				2	23.5	
		1	49				2	23.5	
		25	0				3	22.5	
		25	12				3	22.5	
		25	25				3	22.5	
		50	0				3	22.5	
		Channel		26715	26865	27015	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		816.5	831.5	846.5			
5M	QPSK	1	0				0	25.5	
		1	12				0	25.5	
		1	24				0	25.5	
		12	0				1	24.5	
		12	6				1	24.5	
		12	13				1	24.5	
		25	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	12				1	24.5	
		1	24				1	24.5	
		12	0				2	23.5	
		12	6				2	23.5	
		12	13				2	23.5	
		25	0				2	23.5	
	64QAM	1	0				2	23.5	
		1	12				2	23.5	
		1	24				2	23.5	
		12	0				3	22.5	
		12	6				3	22.5	
		12	13				3	22.5	
		25	0				3	22.5	
		Channel		26705	26865	27025	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		815.5	831.5	847.5			
3M	QPSK	1	0				0	25.5	
		1	7				0	25.5	
		1	14				0	25.5	
		8	0				1	24.5	
		8	3				1	24.5	
		8	7				1	24.5	
		15	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	7				1	24.5	
		1	14				1	24.5	
		8	0				2	23.5	
		8	3				2	23.5	
		8	7				2	23.5	
		15	0				2	23.5	
	64QAM	1	0				2	23.5	
		1	7				2	23.5	
		1	14				2	23.5	
		8	0				3	22.5	
		8	3				3	22.5	
		8	7				3	22.5	
		15	0				3	22.5	
		Channel		26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		814.7	831.5	848.3			
1.4M	QPSK	1	0				0	25.5	
		1	2				0	25.5	
		1	5				0	25.5	
		3	0				0	25.5	
		3	1				0	25.5	
		3	3				0	25.5	
		6	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	2				1	24.5	
		1	5				1	24.5	
		3	0				1	24.5	
		3	1				1	24.5	
		3	3				1	24.5	
		6	0				2	23.5	
	64QAM	1	0				2	23.5	
		1	2				2	23.5	
		1	5				2	23.5	
		3	0				2	23.5	
		3	1				2	23.5	
		3	3				2	23.5	
		6	0				3	22.5	
		Channel		26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		814.7	831.5	848.3			

LTE Band 26_Ant4 (DS13)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		26765	26865	26965			
		Frequency (MHz)		821.5	831.5	841.5			
15M	QPSK	1	0	23.26	23.24	23.37	0	24.5	
		1	37	23.29	23.35	23.46	0	24.5	
		1	74	23.17	23.31	23.29	0	24.5	
		36	0	23.29	23.25	23.32	0	24.5	
		36	19	23.32	23.27	23.38	0	24.5	
		36	39	23.25	23.21	23.34	0	24.5	
		75	0	23.23	23.22	23.39	0	24.5	
	16QAM	1	0	23.29	23.18	23.17	0	24.5	
		1	37	23.29	23.09	23.19	0	24.5	
		1	74	23.16	23.19	23.31	0	24.5	
		36	0	22.43	22.17	22.18	1	23.5	
		36	19	22.32	22.35	22.27	1	23.5	
		36	39	22.53	22.54	22.46	1	23.5	
		75	0	22.50	22.22	22.36	1	23.5	
	64QAM	1	0	22.39	22.36	22.37	1	23.5	
		1	37	22.32	22.40	22.06	1	23.5	
		1	74	22.17	22.44	22.14	1	23.5	
		36	0	21.34	21.57	21.26	2	22.5	
		36	19	21.18	21.25	21.38	2	22.5	
		36	39	21.35	21.23	21.17	2	22.5	
		75	0	21.26	21.34	21.36	2	22.5	
	BW	Modulation	Channel	26740	26865	26990	3GPP MPR (dB)	Max. Tune-up (dBm)	
			Frequency (MHz)	819	831.5	844			
10M	QPSK	1	0				0	24.5	
		1	24				0	24.5	
		1	49				0	24.5	
		25	0				0	24.5	
		25	12				0	24.5	
		25	25				0	24.5	
		50	0				0	24.5	
	16QAM	1	0				0	24.5	
		1	24				0	24.5	
		1	49				0	24.5	
		25	0				1	23.5	
		25	12				1	23.5	
		25	25				1	23.5	
		50	0				1	23.5	
	64QAM	1	0				1	23.5	
		1	24				1	23.5	
		1	49				1	23.5	
		25	0				2	22.5	
		25	12				2	22.5	
		25	25				2	22.5	
		50	0				2	22.5	
	BW	Modulation	Channel	26715	26865	27015	3GPP MPR (dB)	Max. Tune-up (dBm)	
			Frequency (MHz)	816.5	831.5	846.5			
5M	QPSK	1	0				0	24.5	
		1	12				0	24.5	
		1	24				0	24.5	
		12	0				0	24.5	
		12	6				0	24.5	
		12	13				0	24.5	
		25	0				0	24.5	
	16QAM	1	0				0	24.5	
		1	12				0	24.5	
		1	24				0	24.5	
		12	0				1	23.5	
		12	6				1	23.5	
		12	13				1	23.5	
		25	0				1	23.5	
	64QAM	1	0				1	23.5	
		1	12				1	23.5	
		1	24				1	23.5	
		12	0				2	22.5	
		12	6				2	22.5	
		12	13				2	22.5	
		25	0				2	22.5	
	BW	Modulation	Channel	26705	26865	27025	3GPP MPR (dB)	Max. Tune-up (dBm)	
			Frequency (MHz)	815.5	831.5	847.5			
3M	QPSK	1	0				0	24.5	
		1	7				0	24.5	
		1	14				0	24.5	
		8	0				0	24.5	
		8	3				0	24.5	
		8	7				0	24.5	
		15	0				0	24.5	
	16QAM	1	0				0	24.5	
		1	7				0	24.5	
		1	14				0	24.5	
		8	0				1	23.5	
		8	3				1	23.5	
		8	7				1	23.5	
		15	0				1	23.5	
	64QAM	1	0				1	23.5	
		1	7				1	23.5	
		1	14				1	23.5	
		8	0				2	22.5	
		8	3				2	22.5	
		8	7				2	22.5	
		15	0				2	22.5	
	BW	Modulation	Channel	26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)	
			Frequency (MHz)	814.7	831.5	848.3			
1.4M	QPSK	1	0				0	24.5	
		1	2				0	24.5	
		1	5				0	24.5	
		3	0				0	24.5	
		3	1				0	24.5	
		3	3				0	24.5	
		6	0				0	24.5	
	16QAM	1	0				0	24.5	
		1	2				0	24.5	
		1	5				0	24.5	
		3	0				0	24.5	
		3	1				0	24.5	
		3	3				0	24.5	
		6	0				1	23.5	
	64QAM	1	0				1	23.5	
		1	2				1	23.5	
		1	5				1	23.5	
		3	0				1	23.5	
		3	1				1	23.5	
		3	3				1	23.5	
		6	0				2	22.5	

LTE_DSI 2&3

LTE Band 38_Ant1 (DSI2&3)										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel		37850	38000	38150				
		Frequency (MHz)		2580	2595	2610				
20M	QPSK	1	0	22.59	22.56	22.69	0	23.5		
		1	50	22.79	22.67	22.75	0	23.5		
		1	99	22.68	22.65	22.63	0	23.5		
		50	0	22.73	22.67	22.64	0	23.5		
		50	25	22.57	22.63	22.59	0	23.5		
		50	50	22.63	22.51	22.50	0	23.5		
	16QAM	100	0	22.65	22.55	22.63	0	23.5		
		1	0	22.51	22.63	22.55	0	23.5		
		1	50	22.56	22.65	22.65	0	23.5		
		1	99	22.64	22.64	22.67	0	23.5		
		50	0	22.69	22.65	22.51	0	23.5		
		50	25	22.65	22.56	22.57	0	23.5		
	64QAM	50	50	22.68	22.63	22.56	0	23.5		
		100	0	22.62	22.61	22.52	0	23.5		
		1	0	22.64	22.62	22.54	0	23.5		
		1	50	22.61	22.55	22.68	0	23.5		
		1	99	22.71	22.62	22.68	0	23.5		
		50	0	21.62	21.64	21.68	1	22.5		
		50	25	21.59	21.55	21.53	1	22.5		
		50	50	21.60	21.66	21.61	1	22.5		
		100	0	21.51	21.69	21.60	1	22.5		
		BW	Modulation	Channel		37825	38000	38175	3GPP MPR (dB)	Max. Tune-up (dBm)
				Frequency (MHz)		2577.5	2595	2612.5		
		15M	QPSK	1	0				0	23.5
1	37						0	23.5		
1	74						0	23.5		
36	0						0	23.5		
36	19						0	23.5		
36	39						0	23.5		
75	0						0	23.5		
16QAM	1		0				0	23.5		
	1		37				0	23.5		
	1		74				0	23.5		
	36		0				0	23.5		
	36		19				0	23.5		
	36		39				0	23.5		
	75		0				0	23.5		
64QAM	1		0				0	23.5		
	1		37				0	23.5		
	1		74				0	23.5		
	36		0				1	22.5		
	36		19				1	22.5		
	36		39				1	22.5		
	75		0				1	22.5		
BW	Modulation		Channel		37800	38000	38200	3GPP MPR (dB)	Max. Tune-up (dBm)	
			Frequency (MHz)		2575	2595	2615			
10M	QPSK		1	0				0	23.5	
		1	24				0	23.5		
		1	49				0	23.5		
		25	0				0	23.5		
		25	12				0	23.5		
		25	25				0	23.5		
	16QAM	50	0				0	23.5		
		1	0				0	23.5		
		1	24				0	23.5		
		1	49				0	23.5		
		25	0				0	23.5		
		25	12				0	23.5		
	64QAM	25	25				0	23.5		
		50	0				0	23.5		
		1	0				0	23.5		
		1	24				0	23.5		
		1	49				0	23.5		
		25	0				1	22.5		
		25	12				1	22.5		
		25	25				1	22.5		
	50	0				1	22.5			
	BW	Modulation	Channel		37775	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)	
			Frequency (MHz)		2572.5	2595	2617.5			
	5M	QPSK	1	0				0	23.5	
1			12				0	23.5		
1			24				0	23.5		
12			0				0	23.5		
12			6				0	23.5		
12			13				0	23.5		
16QAM		25	0				0	23.5		
		1	0				0	23.5		
		1	12				0	23.5		
		1	24				0	23.5		
		12	0				0	23.5		
		12	6				0	23.5		
64QAM		12	13				0	23.5		
		25	0				0	23.5		
		1	0				0	23.5		
		1	12				1	22.5		
		1	24				1	22.5		
		12	0				1	22.5		
		12	6				1	22.5		
		12	13				1	22.5		
		25	0				1	22.5		
		BW	Modulation	Channel		37775	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)
				Frequency (MHz)		2572.5	2595	2617.5		

LTE_DSI 2&3

LTE Band 41_Ant1 (DS12&3)											
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		39750	40185	40620	41055	41490			
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680			
20M	QPSK	1	0	22.52	22.69	22.71	22.59	22.65	0	23.5	
		1	50	22.70	22.76	22.87	22.65	22.64	0	23.5	
		1	99	22.66	22.57	22.79	22.63	22.76	0	23.5	
		50	0	22.65	22.62	22.65	22.67	22.64	0	23.5	
		50	25	22.74	22.70	22.75	22.73	22.68	0	23.5	
		50	50	22.67	22.63	22.67	22.66	22.54	0	23.5	
		100	0	22.54	22.52	22.78	22.58	22.7	0	23.5	
	16QAM	1	0	22.70	22.69	22.61	22.55	22.53	0	23.5	
		1	50	22.57	22.48	22.54	22.5	22.82	0	23.5	
		1	99	22.60	22.56	22.45	22.64	22.75	0	23.5	
		50	0	22.52	22.49	22.42	22.58	22.4	0	23.5	
		50	25	22.46	22.57	22.65	22.49	22.52	0	23.5	
		50	50	22.51	22.58	22.57	22.57	22.48	0	23.5	
		100	0	22.53	22.47	22.51	22.46	22.43	0	23.5	
	64QAM	1	0	22.39	22.30	22.28	22.25	22.2	0	23.5	
		1	50	22.30	22.27	22.35	22.31	22.57	0	23.5	
		1	99	22.41	22.24	22.40	22.38	22.34	0	23.5	
		50	0	21.42	21.45	21.37	21.45	21.41	1	22.5	
		50	25	21.35	21.39	21.19	21.36	21.23	1	22.5	
		50	50	21.57	21.31	21.52	21.49	21.46	1	22.5	
		100	0	21.51	21.44	21.28	21.37	21.34	1	22.5	
15M	QPSK	Channel		39725	40173	40620	41068	41515	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5			
		1	0						0	23.5	
		1	37						0	23.5	
		1	74						0	23.5	
		36	0						0	23.5	
	16QAM	36	19						0	23.5	
		36	39						0	23.5	
		75	0						0	23.5	
		1	0						0	23.5	
		1	37						0	23.5	
		1	74						0	23.5	
	64QAM	36	0						0	23.5	
		36	19						0	23.5	
		75	0						0	23.5	
		1	0						0	23.5	
		1	37						0	23.5	
		1	74						0	23.5	
10M	QPSK	36	0						1	22.5	
		36	19						1	22.5	
		36	39						1	22.5	
		75	0						1	22.5	
	16QAM	Channel		39700	40160	40620	41080	41540	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		2501	2547	2593	2639	2685			
		1	0						0	23.5	
		1	24						0	23.5	
		1	49						0	23.5	
		25	0						0	23.5	
	64QAM	25	12						0	23.5	
		25	25						0	23.5	
		50	0						0	23.5	
		1	0						0	23.5	
		1	24						0	23.5	
		1	49						0	23.5	
5M	QPSK	25	0						1	22.5	
		25	12						1	22.5	
		25	25						1	22.5	
		50	0						1	22.5	
	16QAM	Channel		39675	40148	40620	41093	41565	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5			
		1	0						0	23.5	
		1	12						0	23.5	
		1	24						0	23.5	
		12	0						0	23.5	
	64QAM	12	6						0	23.5	
		12	13						0	23.5	
		25	0						0	23.5	
		1	0						0	23.5	
		1	12						0	23.5	
		1	24						0	23.5	

LTE Band 41_Ant4 (DS13)											
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		39750	40185	40620	41055	41490			
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680			
20M	QPSK	1	0	19.97	19.90	19.68	19.62	19.65	0	21	
		1	50	20.01	19.97	20.06	19.87	19.81	0	21	
		1	99	19.88	19.93	19.80	19.78	19.74	0	21	
		50	0	19.75	19.66	19.77	19.72	19.63	0	21	
		50	25	19.84	19.82	19.87	19.79	19.83	0	21	
		50	50	19.73	19.77	19.79	19.68	19.69	0	21	
	16QAM	100	0	19.77	19.80	19.89	19.72	19.77	0	21	
		1	0	19.71	19.86	19.65	19.56	19.72	0	21	
		1	50	19.81	19.62	19.64	19.76	19.75	0	21	
		1	99	19.64	19.66	19.57	19.66	19.65	0	21	
		50	0	19.67	19.49	19.62	19.72	19.53	0	21	
		50	25	19.71	19.78	19.70	19.80	19.75	0	21	
	64QAM	50	50	19.78	19.67	19.59	19.80	19.73	0	21	
		100	0	19.74	19.68	19.63	19.58	19.61	0	21	
		1	0	19.53	19.53	19.58	19.76	19.64	0	21	
		1	50	19.59	19.72	19.67	19.60	19.57	0	21	
		1	99	19.66	19.60	19.47	19.63	19.58	0	21	
		50	0	19.85	19.64	19.56	19.81	19.54	0	21	
15M	QPSK	50	25	19.55	19.59	19.65	19.66	19.74	0	21	
		50	50	19.59	19.71	19.75	19.55	19.70	0	21	
		100	0	19.69	19.52	19.70	19.72	19.62	0	21	
		Channel		39725	40173	40620	41068	41515	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5			
		1	0						0	21	
	16QAM	1	37						0	21	
		1	74						0	21	
		36	0						0	21	
		36	19						0	21	
		36	39						0	21	
		75	0						0	21	
	64QAM	1	0						0	21	
		1	37						0	21	
		1	74						0	21	
36		0						0	21		
36		19						0	21		
36		39						0	21		
10M	QPSK	75	0						0	21	
		1	0						0	21	
		1	37						0	21	
		1	74						0	21	
		36	0						0	21	
		36	19						0	21	
	16QAM	36	39						0	21	
		75	0						0	21	
		1	0						0	21	
		1	37						0	21	
		1	74						0	21	
		36	0						0	21	
64QAM	36	19						0	21		
	36	39						0	21		
	75	0						0	21		
	Channel		39700	40160	40620	41080	41540	3GPP MPR (dB)	Max. Tune-up (dBm)		
	Frequency (MHz)		2501	2547	2593	2639	2685				
	1	0						0	21		
5M	QPSK	1	24						0	21	
		1	49						0	21	
		25	0						0	21	
		25	12						0	21	
		25	25						0	21	
		50	0						0	21	
	16QAM	1	0						0	21	
		1	24						0	21	
		1	49						0	21	
		25	0						0	21	
		25	12						0	21	
		25	25						0	21	
64QAM	50	0						0	21		
	1	0						0	21		
	1	24						0	21		
	1	49						0	21		
	25	0						0	21		
	25	12						0	21		
2.5M	QPSK	25	25						0	21	
		50	0						0	21	
		1	0						0	21	
		1	12						0	21	
		1	24						0	21	
		12	0						0	21	
	16QAM	12	6						0	21	
		12	13						0	21	
		25	0						0	21	
		1	0						0	21	
		1	12						0	21	
		1	24						0	21	
64QAM	12	0						0	21		
	12	6						0	21		
	12	13						0	21		
	25	0						0	21		
	1	0						0	21		
	1	12						0	21		

LTE_DSI 2&3

LTE Band 66 Ant1 (DSI2&3)								
BW	Modulation	RB Size Channel	RB Offset	Low 132672	Mid 132322	High 132572	3GPP MPR (dB)	Max. Time-up (dBm)
20M	QPSK	1	0	21.37	21.42	21.39	0	22.5
		1	50	21.48	21.44	21.89	0	22.5
		1	99	21.31	21.40	21.45	0	22.5
		50	0	21.36	21.39	21.43	0	22.5
		50	25	21.42	21.49	21.86	0	22.5
		50	50	21.30	21.43	21.42	0	22.5
	16QAM	100	0	21.42	21.38	21.46	0	22.5
		1	0	21.32	21.35	21.32	0	22.5
		1	50	21.51	21.36	21.36	0	22.5
		1	99	21.30	21.46	21.49	0	22.5
		50	0	21.39	21.35	21.18	0	22.5
		50	25	21.36	21.34	21.36	0	22.5
	64QAM	50	50	21.50	21.45	21.40	0	22.5
		100	0	21.36	21.37	21.23	0	22.5
		1	0	21.25	21.45	21.25	0	22.5
		1	50	21.30	21.35	21.35	0	22.5
		1	99	21.36	21.33	21.25	0	22.5
		50	0	21.48	21.47	21.17	0	22.5
15M	QPSK	50	25	21.25	21.29	21.45	0	22.5
		50	50	21.31	21.19	21.28	0	22.5
		100	0	21.36	21.37	21.12	0	22.5
	16QAM	1	0				0	22.5
		1	37				0	22.5
		1	74				0	22.5
	64QAM	36	0				0	22.5
		36	19				0	22.5
		36	39				0	22.5
10M	QPSK	75	0				0	22.5
		1	0				0	22.5
		1	37				0	22.5
		1	74				0	22.5
		36	0				0	22.5
		36	19				0	22.5
	16QAM	36	39				0	22.5
		75	0				0	22.5
	64QAM	1	0				0	22.5
		1	37				0	22.5
		1	74				0	22.5
		36	0				0	22.5
5M	QPSK	36	19				0	22.5
		36	39				0	22.5
		75	0				0	22.5
	16QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
	64QAM	25	0				0	22.5
		25	12				0	22.5
		25	25				0	22.5
3M	QPSK	50	0				0	22.5
		1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
		25	12				0	22.5
	16QAM	25	25				0	22.5
		50	0				0	22.5
	64QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
1.4M	QPSK	25	12				0	22.5
		25	25				0	22.5
		50	0				0	22.5
	16QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
	64QAM	25	0				0	22.5
		25	12				0	22.5
		25	25				0	22.5
1.4M	QPSK	50	0				0	22.5
		1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
		25	12				0	22.5
	16QAM	25	25				0	22.5
		50	0				0	22.5
	64QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
1.4M	QPSK	25	12				0	22.5
		25	25				0	22.5
		50	0				0	22.5
	16QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
	64QAM	25	0				0	22.5
		25	12				0	22.5
		25	25				0	22.5
1.4M	QPSK	50	0				0	22.5
		1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
		25	12				0	22.5
	16QAM	25	25				0	22.5
		50	0				0	22.5
	64QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
1.4M	QPSK	25	12				0	22.5
		25	25				0	22.5
		50	0				0	22.5
	16QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
	64QAM	25	0				0	22.5
		25	12				0	22.5
		25	25				0	22.5
1.4M	QPSK	50	0				0	22.5
		1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
		25	12				0	22.5
	16QAM	25	25				0	22.5
		50	0				0	22.5
	64QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
1.4M	QPSK	25	12				0	22.5
		25	25				0	22.5
		50	0				0	22.5
	16QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
	64QAM	25	0				0	22.5
		25	12				0	22.5
		25	25				0	22.5
1.4M	QPSK	50	0				0	22.5
		1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
		25	12				0	22.5
	16QAM	25	25				0	22.5
		50	0				0	22.5
	64QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
1.4M	QPSK	25	12				0	22.5
		25	25				0	22.5
		50	0				0	22.5
	16QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
	64QAM	25	0				0	22.5
		25	12				0	22.5
		25	25				0	22.5
1.4M	QPSK	50	0				0	22.5
		1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
		25	12				0	22.5
	16QAM	25	25				0	22.5
		50	0				0	22.5
	64QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
1.4M	QPSK	25	12				0	22.5
		25	25				0	22.5
		50	0				0	22.5
	16QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
	64QAM	25	0				0	22.5
		25	12				0	22.5
		25	25				0	22.5
1.4M	QPSK	50	0				0	22.5
		1	0				0	22.5
		1	24				0	22.5

LTE_DSI 4

LTE Band 2_Ant1 (DS4)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		18700	18900	19100			
		Frequency (MHz)		1880	1890	1900			
20M	QPSK	1	0	24.13	24.05	24.10	0	25.5	
		1	50	24.35	24.41	24.32	0	25.5	
		1	99	24.05	23.91	23.97	0	25.5	
		50	0	23.28	23.27	23.18	1	24.5	
		50	25	23.36	23.39	23.30	1	24.5	
		50	50	23.32	23.18	23.15	1	24.5	
	16QAM	100	0	23.36	23.38	23.25	1	24.5	
		1	0	23.99	23.52	23.98	1	24.5	
		1	50	23.71	23.70	23.71	1	24.5	
		1	99	23.38	23.35	23.32	1	24.5	
		50	0	22.43	22.32	22.23	2	23.5	
		50	25	22.37	22.37	22.30	2	23.5	
	64QAM	50	50	22.47	22.26	22.18	2	23.5	
		100	0	22.34	22.27	22.29	2	23.5	
		1	0	22.37	22.24	22.36	2	23.5	
		1	50	22.68	22.63	22.61	2	23.5	
		1	99	22.27	22.25	22.15	2	23.5	
		50	0	21.28	21.25	21.21	3	22.5	
	15M	QPSK	50	25	21.42	21.40	21.26	3	22.5
			50	50	21.44	21.20	21.10	3	22.5
			100	0	21.39	21.24	21.17	3	22.5
			1	0					
			1	37					
			1	74					
16QAM	36	0				1	24.5		
	36	19				1	24.5		
	36	39				1	24.5		
	75	0				1	24.5		
	1	0				1	24.5		
	1	37				1	24.5		
64QAM	1	74				1	24.5		
	36	0				2	23.5		
	36	19				2	23.5		
	36	39				2	23.5		
	75	0				2	23.5		
	1	0				2	23.5		
10M	QPSK	1	37				2	23.5	
		1	74				2	23.5	
		36	0				3	22.5	
		36	19				3	22.5	
		36	39				3	22.5	
		75	0				3	22.5	
	16QAM	1	0				3	22.5	
		1	37				3	22.5	
		1	74				3	22.5	
		36	0				3	22.5	
		36	19				3	22.5	
		36	39				3	22.5	
64QAM	75	0				3	22.5		
	1	0							
	1	24				0	25.5		
	1	49				0	25.5		
	25	0				1	24.5		
	25	12				1	24.5		
5M	QPSK	25	25				1	24.5	
		50	0				1	24.5	
		1	0				1	24.5	
		1	24				1	24.5	
		1	49				1	24.5	
		25	0				2	23.5	
	16QAM	25	12				2	23.5	
		25	25				2	23.5	
		50	0				2	23.5	
		1	0				2	23.5	
		1	24				2	23.5	
		1	49				2	23.5	
64QAM	25	12				2	23.5		
	25	25				2	23.5		
	50	0				2	23.5		
	1	0				2	23.5		
	1	24				2	23.5		
	1	49				2	23.5		
3M	QPSK	25	12				2	23.5	
		25	25				2	23.5	
		50	0				2	23.5	
		1	0				2	23.5	
		1	12				2	23.5	
		1	24				2	23.5	
	16QAM	12	0				2	23.5	
		12	6				2	23.5	
		12	13				2	23.5	
		25	0				2	23.5	
		1	0				2	23.5	
		1	12				2	23.5	
64QAM	1	24				2	23.5		
	12	0				3	22.5		
	12	6				3	22.5		
	12	13				3	22.5		
	25	0				3	22.5		
	1	0				3	22.5		
1.4M	QPSK	1	0				0	25.5	
		1	12				0	25.5	
		1	24				0	25.5	
		12	0				1	24.5	
		12	6				1	24.5	
		12	13				1	24.5	
	16QAM	25	0				1	24.5	
		1	0				1	24.5	
		1	12				1	24.5	
		1	24				1	24.5	
		12	0				2	23.5	
		12	6				2	23.5	
64QAM	12	13				2	23.5		
	25	0				2	23.5		
	1	0				2	23.5		
	1	12				2	23.5		
	1	24				2	23.5		
	12	0				3	22.5		
BW	QPSK	12	6				3	22.5	
		12	13				3	22.5	
		25	0				3	22.5	
		1	0				2	23.5	
		1	12				2	23.5	
		1	24				2	23.5	
	16QAM	12	0				3	22.5	
		12	6				3	22.5	
		12	13				3	22.5	
		25	0				3	22.5	
		1	0				2	23.5	
		1	12				2	23.5	
64QAM	1	24				2	23.5		
	12	0				3	22.5		
	12	6				3	22.5		
	12	13				3	22.5		
	25	0				3	22.5		
	1	0				3	22.5		

LTE_DSI 4

LTE Band 4_Ant1 (DS14)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel Frequency (MHz)		20090 1729	20175 1732.5	20300 1746		
20M	QPSK	1	0	24.16	24.12	24.11	0	25.5
		1	50	24.42	24.51	24.45	0	25.5
		1	99	24.20	24.16	24.08	0	25.5
		50	0	23.43	23.36	23.35	1	24.5
		50	25	23.45	23.55	23.46	1	24.5
		50	50	23.44	23.47	23.33	1	24.5
		100	0	23.48	23.49	23.32	1	24.5
		1	0	23.45	23.42	23.44	1	24.5
		1	50	23.77	23.70	23.75	1	24.5
		1	99	23.50	23.42	23.32	1	24.5
	16QAM	50	0	22.37	22.40	22.46	2	23.5
		50	25	22.58	22.51	22.49	2	23.5
		50	50	22.48	22.59	22.40	2	23.5
		100	0	22.42	22.51	22.29	2	23.5
		1	0	22.50	22.36	22.31	2	23.5
		1	50	22.66	22.64	22.58	2	23.5
		1	99	22.48	22.39	22.32	2	23.5
		50	0	21.43	21.44	21.43	3	22.5
		50	25	21.51	21.51	21.38	3	22.5
		50	50	21.53	21.54	21.35	3	22.5
	64QAM	100	0	21.53	21.51	21.39	3	22.5
15M	QPSK	Channel		20025 1717.5	20175 1732.5	20325 1747.5	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1732.5	1747.5		
		1	0				0	25.5
		1	37				0	25.5
		1	74				0	25.5
		36	0				1	24.5
		36	19				1	24.5
		36	39				1	24.5
	16QAM	75	0				1	24.5
		1	0				1	24.5
		1	37				1	24.5
		1	74				1	24.5
		36	0				2	23.5
		36	19				2	23.5
		36	39				2	23.5
	64QAM	75	0				2	23.5
		1	0				2	23.5
		1	37				2	23.5
		1	74				2	23.5
		36	0				3	22.5
		36	19				3	22.5
		36	39				3	22.5
10M	QPSK	Channel		20090 1715	20175 1732.5	20300 1750	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1732.5	1750		
		1	0				0	25.5
		1	24				0	25.5
		1	49				0	25.5
		25	0				1	24.5
		25	12				1	24.5
		25	25				1	24.5
	16QAM	50	0				1	24.5
		1	0				1	24.5
		1	24				1	24.5
		1	49				1	24.5
		25	0				2	23.5
		25	12				2	23.5
		25	25				2	23.5
	64QAM	50	0				2	23.5
		1	0				2	23.5
		1	24				2	23.5
		1	49				2	23.5
		25	0				3	22.5
		25	12				3	22.5
		25	25				3	22.5
5M	QPSK	Channel		19975 1712.5	20175 1732.5	20375 1752.5	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1732.5	1752.5		
		1	0				0	25.5
		1	12				0	25.5
		1	24				0	25.5
		12	0				1	24.5
		12	6				1	24.5
		12	13				1	24.5
	16QAM	25	0				1	24.5
		1	0				1	24.5
		1	12				1	24.5
		1	24				1	24.5
		12	0				2	23.5
		12	6				2	23.5
		12	13				2	23.5
	64QAM	25	0				2	23.5
		1	0				2	23.5
		1	12				2	23.5
		1	24				2	23.5
		12	0				3	22.5
		12	6				3	22.5
		12	13				3	22.5
3M	QPSK	Channel		19957 1710.7	20175 1732.5	20393 1754.3	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1732.5	1754.3		
		1	0				0	25.5
		1	2				0	25.5
		1	5				0	25.5
		3	0				0	25.5
		3	1				0	25.5
		3	3				0	25.5
	16QAM	6	0				1	24.5
		1	0				1	24.5
		1	2				1	24.5
		1	5				1	24.5
		3	0				1	24.5
		3	1				1	24.5
		3	3				1	24.5
	64QAM	6	0				2	23.5
		1	0				2	23.5
		1	2				2	23.5
		1	5				2	23.5
		3	0				2	23.5
		3	1				2	23.5
		3	3				2	23.5

LTE Band 4 Ant4 (DS14)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel Frequency (MHz)		20050 1728	20175 1732.5	20300 1745		
20M	QPSK	1	0	21.08	21.15	21.12	0	22.5
		1	50	21.16	21.37	21.16	0	22.5
		1	99	21.05	21.15	21.14	0	22.5
		50	0	21.09	21.15	21.10	0	22.5
		50	25	21.18	21.27	21.22	0	22.5
		50	50	21.00	21.20	21.12	0	22.5
		100	0	21.13	21.19	21.11	0	22.5
	16QAM	1	0	21.16	21.11	21.08	0	22.5
		1	50	21.19	21.06	21.13	0	22.5
		1	99	21.04	21.23	21.34	0	22.5
		50	0	21.12	20.98	21.13	0	22.5
		50	25	21.18	21.06	21.13	0	22.5
		50	50	21.22	21.28	21.09	0	22.5
		100	0	21.02	20.86	21.13	0	22.5
	64QAM	1	0	21.02	21.01	21.14	0	22.5
		1	50	21.09	21.06	21.16	0	22.5
		1	99	20.98	20.94	21.08	0	22.5
		50	0	21.24	20.99	21.23	0	22.5
		50	25	21.03	21.23	21.00	0	22.5
		50	50	21.05	21.04	21.03	0	22.5
		100	0	21.06	20.97	20.97	0	22.5
BW	Modulation	Channel Frequency (MHz)	20025 1717.5	20175 1732.5	20325 1747.5	3GPP MPR (dB)	Max. Tune-up (dBm)	
		1	0			0	22.5	
15M	QPSK	1	37			0	22.5	
		1	74			0	22.5	
		36	0			0	22.5	
		36	19			0	22.5	
		36	39			0	22.5	
		75	0			0	22.5	
		1	0			0	22.5	
	16QAM	1	37			0	22.5	
		1	74			0	22.5	
		36	0			0	22.5	
		36	19			0	22.5	
		36	39			0	22.5	
		75	0			0	22.5	
		1	0			0	22.5	
	64QAM	1	37			0	22.5	
		1	74			0	22.5	
		36	0			0	22.5	
		36	19			0	22.5	
		36	39			0	22.5	
		75	0			0	22.5	
		1	0			0	22.5	
BW	Modulation	Channel Frequency (MHz)	20000 1715	20175 1732.5	20350 1750	3GPP MPR (dB)	Max. Tune-up (dBm)	
		1	0			0	22.5	
10M	QPSK	1	24			0	22.5	
		1	49			0	22.5	
		25	0			0	22.5	
		25	12			0	22.5	
		25	25			0	22.5	
		50	0			0	22.5	
		1	0			0	22.5	
	16QAM	1	24			0	22.5	
		1	49			0	22.5	
		25	0			0	22.5	
		25	12			0	22.5	
		25	25			0	22.5	
		50	0			0	22.5	
		1	0			0	22.5	
	64QAM	1	24			0	22.5	
		1	49			0	22.5	
		25	0			0	22.5	
		25	12			0	22.5	
		25	25			0	22.5	
		50	0			0	22.5	
		1	0			0	22.5	
BW	Modulation	Channel Frequency (MHz)	19975 1712.5	20175 1732.5	20375 1752.5	3GPP MPR (dB)	Max. Tune-up (dBm)	
		1	0			0	22.5	
5M	QPSK	1	12			0	22.5	
		1	24			0	22.5	
		12	0			0	22.5	
		12	6			0	22.5	
		12	13			0	22.5	
		25	0			0	22.5	
		1	0			0	22.5	
	16QAM	1	12			0	22.5	
		1	24			0	22.5	
		12	0			0	22.5	
		12	6			0	22.5	
		12	13			0	22.5	
		25	0			0	22.5	
		1	0			0	22.5	
	64QAM	1	12			0	22.5	
		1	24			0	22.5	
		12	0			0	22.5	
		12	6			0	22.5	
		12	13			0	22.5	
		25	0			0	22.5	
		1	0			0	22.5	
BW	Modulation	Channel Frequency (MHz)	19965 1711.5	20175 1732.5	20385 1753.5	3GPP MPR (dB)	Max. Tune-up (dBm)	
		1	0			0	22.5	
3M	QPSK	1	7			0	22.5	
		1	14			0	22.5	
		8	0			0	22.5	
		8	7			0	22.5	
		15	0			0	22.5	
		1	0			0	22.5	
		1	7			0	22.5	
	16QAM	1	14			0	22.5	
		8	0			0	22.5	
		8	3			0	22.5	
		8	7			0	22.5	
		15	0			0	22.5	
		1	0			0	22.5	
		1	7			0	22.5	
	64QAM	1	14			0	22.5	
		8	0			0	22.5	
		8	3			0	22.5	
		8	7			0	22.5	
		15	0			0	22.5	
		1	0			0	22.5	
		1	7			0	22.5	
BW	Modulation	Channel Frequency (MHz)	19957 1710.7	20175 1732.5	20393 1754.3	3GPP MPR (dB)	Max. Tune-up (dBm)	
		1	0			0	22.5	
1.4M	QPSK	1	2			0	22.5	
		1	5			0	22.5	
		3	1			0	22.5	
		3	3			0	22.5	
		6	0			0	22.5	
		1	0			0	22.5	
		1	2			0	22.5	
	16QAM	1	5			0	22.5	
		3	0			0	22.5	
		3	1			0	22.5	
		3	3			0	22.5	
		6	0			0	22.5	
		1	0			0	22.5	
		1	2			0	22.5	
	64QAM	1	5			0	22.5	
		3	0			0	22.5	
		3	1			0	22.5	
		3	3			0	22.5	
		6	0			0	22.5	
		1	0			0	22.5	
		1	2			0	22.5	

LTE_DSI 4

LTE Band 5_Ant1 (DS14)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20450	20525	20600		
		Frequency (MHz)		829	836.5	844		
10M	QPSK	1	0	24.42	24.39	24.32	0	25.5
		1	24	24.49	24.45	24.60	0	25.5
		1	49	24.28	24.30	24.42	0	25.5
		25	0	23.43	23.40	23.43	1	24.5
		25	12	23.45	23.42	23.47	1	24.5
		25	25	23.38	23.36	23.31	1	24.5
		50	0	23.37	23.41	23.43	1	24.5
		1	0	23.60	23.58	23.60	1	24.5
	16QAM	1	24	23.76	23.71	23.78	1	24.5
		1	49	23.57	23.57	23.60	1	24.5
		25	0	22.44	22.51	22.62	2	23.5
		25	12	22.48	22.58	22.54	2	23.5
		25	25	22.45	22.46	22.56	2	23.5
		50	0	22.47	22.55	22.37	2	23.5
		1	0	22.51	22.62	22.51	2	23.5
		1	24	22.72	22.64	22.57	2	23.5
	64QAM	1	49	22.61	22.62	22.77	2	23.5
		25	0	21.49	21.52	21.62	3	22.5
		25	12	21.46	21.54	21.51	3	22.5
		25	25	21.57	21.52	21.53	3	22.5
		50	0	21.53	21.46	21.47	3	22.5
		Channel		20425	20525	20625	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5		
		1	0				0	25.5
5M	QPSK	1	12				0	25.5
		1	24				0	25.5
		12	0				1	24.5
		12	6				1	24.5
		12	13				1	24.5
		25	0				1	24.5
	16QAM	1	0				1	24.5
		1	12				1	24.5
		1	24				1	24.5
		12	0				2	23.5
		12	6				2	23.5
		12	13				2	23.5
		25	0				2	23.5
	64QAM	1	0				2	23.5
		1	12				2	23.5
		1	24				2	23.5
		12	0				3	22.5
		12	6				3	22.5
		12	13				3	22.5
		25	0				3	22.5
		Channel		20415	20525	20635	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5		
3M	QPSK	1	0				0	25.5
		1	7				0	25.5
		1	14				0	25.5
		8	0				1	24.5
		8	3				1	24.5
		8	7				1	24.5
		15	0				1	24.5
	16QAM	1	0				1	24.5
		1	7				1	24.5
		1	14				1	24.5
		8	0				2	23.5
		8	3				2	23.5
		8	7				2	23.5
		15	0				2	23.5
	64QAM	1	0				2	23.5
		1	7				2	23.5
		1	14				2	23.5
		8	0				3	22.5
		8	3				3	22.5
		8	7				3	22.5
		15	0				3	22.5
		Channel		20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3		
1.4M	QPSK	1	0				0	25.5
		1	2				0	25.5
		1	5				0	25.5
		3	0				0	25.5
		3	1				0	25.5
		3	3				0	25.5
		6	0				1	24.5
	16QAM	1	0				1	24.5
		1	2				1	24.5
		1	5				1	24.5
		3	0				1	24.5
		3	1				1	24.5
		3	3				1	24.5
		6	0				2	23.5
	64QAM	1	0				2	23.5
		1	2				2	23.5
		1	5				2	23.5
		3	0				2	23.5
		3	1				2	23.5
		3	3				2	23.5
		6	0				3	22.5
		Channel		20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3		

LTE Band 5_Ant4 (DS14)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20450	20525	20600		
		Frequency (MHz)		829	836.5	844		
10M	QPSK	1	0	24.32	24.33	24.29	0	25.5
		1	24	24.45	24.48	24.36	0	25.5
		1	49	24.27	24.38	24.26	0	25.5
		25	0	23.45	23.51	23.43	1	24.5
		25	12	23.38	23.48	23.39	1	24.5
		25	25	23.36	23.40	23.36	1	24.5
		50	0	23.44	23.47	23.42	1	24.5
	16QAM	1	0	23.42	23.58	23.68	1	24.5
		1	24	23.71	23.62	23.78	1	24.5
		1	49	23.54	23.53	23.55	1	24.5
		25	0	22.37	22.41	22.47	2	23.5
		25	12	22.37	22.54	22.54	2	23.5
		25	25	22.42	22.38	22.41	2	23.5
		50	0	22.44	22.45	22.46	2	23.5
	64QAM	1	0	22.58	22.54	22.63	2	23.5
		1	24	22.69	22.62	22.66	2	23.5
		1	49	22.47	22.53	22.51	2	23.5
		25	0	21.43	21.31	21.42	3	22.5
		25	12	21.40	21.43	21.44	3	22.5
		25	25	21.43	21.40	21.45	3	22.5
		50	0	21.47	21.35	21.45	3	22.5
		Channel		20425	20525	20625	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5		
5M	QPSK	1	0				0	25.5
		1	12				0	25.5
		1	24				0	25.5
		12	0				1	24.5
		12	6				1	24.5
		12	13				1	24.5
		25	0				1	24.5
	16QAM	1	0				1	24.5
		1	12				1	24.5
		1	24				1	24.5
		12	0				2	23.5
		12	6				2	23.5
		12	13				2	23.5
		25	0				2	23.5
	64QAM	1	0				2	23.5
		1	12				2	23.5
		1	24				2	23.5
		12	0				3	22.5
		12	6				3	22.5
		12	13				3	22.5
		25	0				3	22.5
		Channel		20415	20525	20635	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5		
3M	QPSK	1	0				0	25.5
		1	7				0	25.5
		1	14				0	25.5
		8	0				1	24.5
		8	3				1	24.5
		8	7				1	24.5
		15	0				1	24.5
	16QAM	1	0				1	24.5
		1	7				1	24.5
		1	14				1	24.5
		8	0				2	23.5
		8	3				2	23.5
		8	7				2	23.5
		15	0				2	23.5
	64QAM	1	0				2	23.5
		1	7				2	23.5
		1	14				2	23.5
		8	0				3	22.5
		8	3				3	22.5
		8	7				3	22.5
		15	0				3	22.5
		Channel		20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3		
1.4M	QPSK	1	0				0	25.5
		1	2				0	25.5
		1	5				0	25.5
		3	0				0	25.5
		3	1				0	25.5
		3	3				0	25.5
		6	0				1	24.5
	16QAM	1	0				1	24.5
		1	2				1	24.5
		1	5				1	24.5
		3	0				1	24.5
		3	1				1	24.5
		3	3				1	24.5
		6	0				2	23.5
	64QAM	1	0				2	23.5
		1	2				2	23.5
		1	5				2	23.5
		3	0				2	23.5
		3	1				2	23.5
		3	3				2	23.5
		6	0				3	22.5

LTE_DSI 4

LTE Band 7_Ant1 (DSI4)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		20850	21100	21350			
		Frequency (MHz)		2510	2535	2560			
20M	QPSK	1	0	24.21	24.28	24.26	0	25.5	
		1	50	24.38	24.35	24.48	0	25.5	
		1	99	24.15	24.19	24.26	0	25.5	
		50	0	23.29	23.44	23.49	1	24.5	
		50	25	23.34	23.48	23.52	1	24.5	
		50	50	23.26	23.29	23.35	1	24.5	
	16QAM	100	0	23.23	23.45	23.49	1	24.5	
		1	0	23.24	23.31	23.41	1	24.5	
		1	50	23.52	23.63	23.74	1	24.5	
		1	99	23.14	23.35	23.41	1	24.5	
		50	0	22.17	22.43	22.48	2	23.5	
		50	25	22.30	22.44	22.48	2	23.5	
	64QAM	50	50	22.27	22.34	22.42	2	23.5	
		100	0	22.18	22.37	22.48	2	23.5	
		1	0	22.25	22.57	22.38	2	23.5	
		1	50	22.46	22.20	22.67	2	23.5	
		1	99	22.03	22.45	22.31	2	23.5	
		50	0	21.13	21.38	21.47	3	22.5	
15M	QPSK	50	25	21.20	21.37	21.47	3	22.5	
		50	50	21.21	21.33	21.34	3	22.5	
		100	0	21.13	21.31	21.43	3	22.5	
	16QAM	1	0	22.03	22.14	22.13	1	23.5	
		1	37	22.03	22.14	22.13	1	23.5	
		1	74	22.03	22.14	22.13	1	23.5	
	64QAM	36	0	22.03	22.14	22.13	1	23.5	
		36	19	22.03	22.14	22.13	1	23.5	
		36	39	22.03	22.14	22.13	1	23.5	
10M	QPSK	75	0	22.03	22.14	22.13	1	23.5	
		1	0	22.03	22.14	22.13	1	23.5	
		1	37	22.03	22.14	22.13	1	23.5	
		1	74	22.03	22.14	22.13	1	23.5	
		36	0	22.03	22.14	22.13	1	23.5	
		36	19	22.03	22.14	22.13	1	23.5	
	16QAM	36	39	22.03	22.14	22.13	1	23.5	
		75	0	22.03	22.14	22.13	1	23.5	
		1	0	22.03	22.14	22.13	1	23.5	
		1	37	22.03	22.14	22.13	1	23.5	
		1	74	22.03	22.14	22.13	1	23.5	
		36	0	22.03	22.14	22.13	1	23.5	
5M	QPSK	36	19	22.03	22.14	22.13	1	23.5	
		36	39	22.03	22.14	22.13	1	23.5	
		75	0	22.03	22.14	22.13	1	23.5	
		1	0	22.03	22.14	22.13	1	23.5	
		1	37	22.03	22.14	22.13	1	23.5	
		1	74	22.03	22.14	22.13	1	23.5	
	16QAM	36	0	22.03	22.14	22.13	1	23.5	
		36	19	22.03	22.14	22.13	1	23.5	
		36	39	22.03	22.14	22.13	1	23.5	
		75	0	22.03	22.14	22.13	1	23.5	
		1	0	22.03	22.14	22.13	1	23.5	
		1	37	22.03	22.14	22.13	1	23.5	
	64QAM	1	74	22.03	22.14	22.13	1	23.5	
		36	0	22.03	22.14	22.13	1	23.5	
		36	19	22.03	22.14	22.13	1	23.5	
		36	39	22.03	22.14	22.13	1	23.5	
		75	0	22.03	22.14	22.13	1	23.5	
		1	0	22.03	22.14	22.13	1	23.5	

LTE Band 7_Ant4 (DSI4)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		20850	21100	21350			
		Frequency (MHz)		2510	2535	2560			
20M	QPSK	1	0	23.12	23.23	23.22	0	24.5	
		1	50	23.42	23.33	23.25	0	24.5	
		1	99	23.29	23.29	23.23	0	24.5	
		50	0	23.14	23.15	23.11	0	24.5	
		50	25	23.22	23.19	23.13	0	24.5	
		50	50	23.16	23.10	23.05	0	24.5	
	16QAM	100	0	23.35	23.16	23.17	0	24.5	
		1	0	23.11	23.29	23.09	0	24.5	
		1	50	23.31	23.39	23.41	0	24.5	
		1	99	23.00	22.98	22.84	0	24.5	
		50	0	22.07	22.12	22.07	1	23.5	
		50	25	22.15	22.13	22.08	1	23.5	
	64QAM	50	50	22.18	22.11	22.01	1	23.5	
		100	0	21.99	22.04	22.06	1	23.5	
		1	0	22.08	22.14	21.99	1	23.5	
		1	50	22.24	22.32	22.22	1	23.5	
		1	99	21.81	21.96	22.03	1	23.5	
		50	0	21.19	21.24	21.13	2	22.5	
15M	QPSK	50	25	21.17	21.17	21.17	2	22.5	
		50	50	21.10	21.04	20.96	2	22.5	
		100	0	21.15	21.16	20.98	2	22.5	
	16QAM	1	0	22.08	22.14	21.99	1	23.5	
		1	37	22.08	22.14	21.99	1	23.5	
		1	74	22.08	22.14	21.99	1	23.5	
	64QAM	36	0	22.08	22.14	21.99	1	23.5	
		36	19	22.08	22.14	21.99	1	23.5	
		36	39	22.08	22.14	21.99	1	23.5	
10M	QPSK	75	0	22.08	22.14	21.99	1	23.5	
		1	0	22.08	22.14	21.99	1	23.5	
		1	37	22.08	22.14	21.99	1	23.5	
		1	74	22.08	22.14	21.99	1	23.5	
		36	0	22.08	22.14	21.99	1	23.5	
		36	19	22.08	22.14	21.99	1	23.5	
	16QAM	36	39	22.08	22.14	21.99	1	23.5	
		75	0	22.08	22.14	21.99	1	23.5	
		1	0	22.08	22.14	21.99	1	23.5	
		1	37	22.08	22.14	21.99	1	23.5	
		1	74	22.08	22.14	21.99	1	23.5	
		36	0	22.08	22.14	21.99	1	23.5	
5M	QPSK	36	19	22.08	22.14	21.99	1	23.5	
		36	39	22.08	22.14	21.99	1	23.5	
		75	0	22.08	22.14	21.99	1	23.5	
		1	0	22.08	22.14	21.99	1	23.5	
		1	37	22.08	22.14	21.99	1	23.5	
		1	74	22.08	22.14	21.99	1	23.5	
	16QAM	36	0	22.08	22.14	21.99	1	23.5	
		36	19	22.08	22.14	21.99	1	23.5	
		36	39	22.08	22.14	21.99	1	23.5	
		75	0	22.08	22.14	21.99	1	23.5	
		1	0	22.08	22.14	21.99	1	23.5	
		1	37	22.08	22.14	21.99	1	23.5	
	64QAM	1	74	22.08	22.14	21.99	1	23.5	
		36	0	22.08	22.14	21.99	1	23.5	
		36	19	22.08	22.14	21.99	1	23.5	
		36	39	22.08	22.14	21.99	1	23.5	
		75	0	22.08	22.14	21.99	1	23.5	
		1	0	22.08	22.14	21.99	1	23.5	

LTE_DSI 4

LTE Band 13_Ant1 (DS14)							
BW	Modulation	RB Size	RB Offset	Mid		3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23230			
		Frequency (MHz)		782			
10M	QPSK	1	0		24.48	0	25.5
		1	24		24.50	0	25.5
		1	49		24.35	0	25.5
		25	0		23.52	1	24.5
		25	12		23.56	1	24.5
		25	25		23.48	1	24.5
		50	0		23.53	1	24.5
		1	0		23.89	1	24.5
	16QAM	1	24		23.76	1	24.5
		1	49		23.61	1	24.5
		25	0		22.61	2	23.5
		25	12		22.55	2	23.5
		25	25		22.54	2	23.5
		50	0		22.48	2	23.5
		1	0		22.70	2	23.5
		1	24		22.82	2	23.5
	64QAM	1	49		22.62	2	23.5
		25	0		21.58	3	22.5
		25	12		21.54	3	22.5
		25	25		21.52	3	22.5
		50	0		21.48	3	22.5
				23205	23230	23255	
				779.5	782	784.5	
5M	QPSK	1	0			0	25.5
		1	12			0	25.5
		1	24			0	25.5
		12	0			1	24.5
		12	6			1	24.5
		12	13			1	24.5
		25	0			1	24.5
		1	0			1	24.5
	16QAM	1	12			1	24.5
		1	24			1	24.5
		12	0			2	23.5
		12	6			2	23.5
		12	13			2	23.5
		25	0			2	23.5
		1	0			2	23.5
		1	12			2	23.5
	64QAM	1	24			2	23.5
		12	0			3	22.5
		12	6			3	22.5
		12	13			3	22.5
		25	0			3	22.5

LTE Band 13_Ant4 (DSI4)								
BW	Modulation	RB Size	RB Offset	Mid		3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		23230				
		Frequency (MHz)		782				
10M	QPSK	1	0		24.16		0	25.5
		1	24		24.25		0	25.5
		1	49		24.09		0	25.5
		25	0		23.24		1	24.5
		25	12		23.29		1	24.5
		25	25		23.23		1	24.5
		50	0		23.29		1	24.5
		1	0		23.39		1	24.5
	16QAM	1	24		23.63		1	24.5
		1	49		23.49		1	24.5
		25	0		22.34		2	23.5
		25	12		22.28		2	23.5
		25	25		22.24		2	23.5
		50	0		22.24		2	23.5
		1	0		22.44		2	23.5
		1	24		22.45		2	23.5
	64QAM	1	49		22.41		2	23.5
		25	0		21.24		3	22.5
		25	12		21.32		3	22.5
		25	25		21.28		3	22.5
		50	0		21.23		3	22.5
				23205	23230	23255		
				779.5	782	784.5		
BW	Modulation	Channel		23205	23230	23255	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		779.5	782	784.5		
5M	QPSK	1	0				0	25.5
		1	12				0	25.5
		1	24				0	25.5
		12	0				1	24.5
		12	6				1	24.5
		12	13				1	24.5
		25	0				1	24.5
		1	0				1	24.5
	16QAM	1	12				1	24.5
		1	24				1	24.5
		12	0				2	23.5
		12	6				2	23.5
		12	13				2	23.5
		25	0				2	23.5
		1	0				2	23.5
		1	12				2	23.5
	64QAM	1	24				2	23.5
		12	0				3	22.5
		12	6				3	22.5
		12	13				3	22.5
		25	0				3	22.5

LTE_DSI 4

LTE Band 26_Ant1 (DSi4)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		26765	26865	26965			
		Frequency (MHz)		821.5	831.5	841.5			
15M	QPSK	1	0	24.37	24.39	24.46	0	25.5	
		1	37	24.48	24.45	24.52	0	25.5	
		1	74	24.41	24.33	24.44	0	25.5	
		36	0	23.57	23.59	23.52	1	24.5	
		36	19	23.60	23.66	23.69	1	24.5	
		36	39	23.56	23.63	23.56	1	24.5	
		75	0	23.46	23.57	23.58	1	24.5	
		1	0	23.68	23.74	23.80	1	24.5	
	16QAM	1	37	23.72	23.86	23.74	1	24.5	
		1	74	23.71	23.69	23.59	1	24.5	
		36	0	22.56	22.56	22.55	2	23.5	
		36	19	22.59	22.66	22.63	2	23.5	
		36	39	22.61	22.55	22.62	2	23.5	
		75	0	22.56	22.70	22.64	2	23.5	
		1	0	22.73	22.73	22.65	2	23.5	
		1	37	22.82	22.72	22.82	2	23.5	
	64QAM	1	74	22.68	22.69	22.68	2	23.5	
		36	0	21.57	21.66	21.58	3	22.5	
		36	19	21.58	21.68	21.58	3	22.5	
		36	39	21.53	21.56	21.56	3	22.5	
		75	0	21.47	21.67	21.61	3	22.5	
Channel		26740	26865	26990	3GPP MPR (dB)	Max. Tune-up (dBm)			
Frequency (MHz)		819	831.5	844					
10M	QPSK	1	0				0	25.5	
		1	24				0	25.5	
		1	49				0	25.5	
		25	0				1	24.5	
		25	12				1	24.5	
		25	25				1	24.5	
		50	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	24				1	24.5	
		1	49				1	24.5	
		25	0				2	23.5	
		25	12				2	23.5	
		25	25				2	23.5	
		50	0				2	23.5	
		1	0				2	23.5	
		1	24				2	23.5	
	64QAM	1	49				2	23.5	
		25	0				3	22.5	
		25	12				3	22.5	
		25	25				3	22.5	
		50	0				3	22.5	
Channel		26715	26865	27015	3GPP MPR (dB)	Max. Tune-up (dBm)			
Frequency (MHz)		816.5	831.5	846.5					
5M	QPSK	1	0				0	25.5	
		1	12				0	25.5	
		1	24				0	25.5	
		12	0				1	24.5	
		12	6				1	24.5	
		12	13				1	24.5	
		25	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	12				1	24.5	
		1	24				1	24.5	
		12	0				2	23.5	
		12	6				2	23.5	
		12	13				2	23.5	
		25	0				2	23.5	
		1	0				2	23.5	
		1	12				2	23.5	
	64QAM	1	24				2	23.5	
		12	0				3	22.5	
		12	6				3	22.5	
		12	13				3	22.5	
		25	0				3	22.5	
Channel		26705	26865	27025	3GPP MPR (dB)	Max. Tune-up (dBm)			
Frequency (MHz)		815.5	831.5	847.5					
3M	QPSK	1	0				0	25.5	
		1	7				0	25.5	
		1	14				0	25.5	
		8	0				1	24.5	
		8	3				1	24.5	
		8	7				1	24.5	
		15	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	7				1	24.5	
		1	14				1	24.5	
		8	0				2	23.5	
		8	3				2	23.5	
		8	7				2	23.5	
		15	0				2	23.5	
		1	0				2	23.5	
		1	7				2	23.5	
	64QAM	1	14				2	23.5	
		8	0				3	22.5	
		8	3				3	22.5	
		8	7				3	22.5	
		15	0				3	22.5	
Channel		26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)			
Frequency (MHz)		814.7	831.5	848.3					
1.4M	QPSK	1	0				0	25.5	
		1	2				0	25.5	
		1	5				0	25.5	
		3	0				0	25.5	
		3	1				0	25.5	
		3	3				0	25.5	
		6	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	2				1	24.5	
		1	5				1	24.5	
		3	0				1	24.5	
		3	1				1	24.5	
		3	3				1	24.5	
		6	0				2	23.5	
		1	0				2	23.5	
		1	2				2	23.5	
	64QAM	1	5				2	23.5	
		3	0				2	23.5	
		3	1				2	23.5	
		3	3				2	23.5	
		6	0				3	22.5	
Channel		26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)			

LTE Band 26_Ant4 (DSi4)									
BW	Modulation	RB Size	RB Offset	Low		Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		26765	26865	26965			
		Frequency (MHz)		821.5	831.5	841.5			
15M	QPSK	1	0	24.11	24.18	24.27	0	25.5	
		1	37	24.36	24.34	24.42	0	25.5	
		1	74	24.33	24.28	24.25	0	25.5	
		36	0	23.39	23.30	23.41	1	24.5	
		36	19	23.48	23.43	23.56	1	24.5	
		36	39	23.44	23.38	23.37	1	24.5	
		75	0	23.32	23.31	23.43	1	24.5	
		1	0	23.48	23.55	23.65	1	24.5	
	16QAM	1	37	23.54	23.52	23.69	1	24.5	
		1	74	23.65	23.49	23.61	1	24.5	
		36	0	22.34	22.47	22.49	2	23.5	
		36	19	22.52	22.45	22.46	2	23.5	
		36	39	22.39	22.39	22.28	2	23.5	
		75	0	22.31	22.43	22.53	2	23.5	
		1	0	22.41	22.55	22.40	2	23.5	
		1	37	22.65	22.50	22.43	2	23.5	
	64QAM	1	74	22.55	22.44	22.46	2	23.5	
		36	0	21.23	21.51	21.39	3	22.5	
		36	19	21.27	21.43	21.53	3	22.5	
		36	39	21.37	21.49	21.41	3	22.5	
		75	0	21.36	21.54	21.47	3	22.5	
		Channel		26740	26865	26990	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		819	831.5	844			
		10M	QPSK	1	0				0
1	24						0	25.5	
1	49						0	25.5	
25	0						1	24.5	
25	12						1	24.5	
25	25						1	24.5	
50	0						1	24.5	
1	0						1	24.5	
16QAM	1		24				1	24.5	
	1		49				1	24.5	
	25		0				2	23.5	
	25		12				2	23.5	
	25		25				2	23.5	
	50		0				2	23.5	
	1		0				2	23.5	
	1		24				2	23.5	
64QAM	1		49				2	23.5	
	25		0				3	22.5	
	25		12				3	22.5	
	25		25				3	22.5	
	50		0				3	22.5	
	Channel		26715	26865	27015	3GPP MPR (dB)	Max. Tune-up (dBm)		
	Frequency (MHz)		816.5	831.5	846.5				
	5M		QPSK	1	0				0
1		12					0	25.5	
1		24					0	25.5	
12		0					1	24.5	
12		6					1	24.5	
12		13					1	24.5	
25		0					1	24.5	
1		0					1	24.5	
16QAM		1	12				1	24.5	
		1	24				1	24.5	
		12	0				2	23.5	
		12	6				2	23.5	
		12	13				2	23.5	
		25	0				2	23.5	
		1	0				2	23.5	
		1	12				2	23.5	
64QAM		1	24				3	22.5	
		12	0				3	22.5	
		12	6				3	22.5	
		12	13				3	22.5	
		25	0				3	22.5	
		Channel		26705	26865	27025	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		815.5	831.5	847.5			
		3M	QPSK	1	0				0
1	7						0	25.5	
1	14						0	25.5	
8	0						1	24.5	
8	3						1	24.5	
8	7						1	24.5	
15	0						1	24.5	
1	0						1	24.5	
16QAM	1		7				1	24.5	
	1		14				1	24.5	
	8		0				2	23.5	
	8		3				2	23.5	
	8		7				2	23.5	
	15		0				2	23.5	
	1		0				2	23.5	
	1		7				2	23.5	
64QAM	1		14				2	23.5	
	8		0				3	22.5	
	8		3				3	22.5	
	8		7				3	22.5	
	15		0				3	22.5	
	Channel		26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)		
	Frequency (MHz)		814.7	831.5	848.3				
	1.4M		QPSK	1	0				0
1		2					0	25.5	
1		5					0	25.5	
3		0					0	25.5	
3		1					0	25.5	
3		3					0	25.5	
6		0					1	24.5	
1		0					1	24.5	
16QAM		1	2				1	24.5	
		1	5				1	24.5	
		3	0				1	24.5	
		3	1				1	24.5	
		3	3				1	24.5	
		6	0				2	23.5	
		1	0				2	23.5	
		1	2				2	23.5	
64QAM		1	5				2	23.5	
		3	0				2	23.5	
		3	1				2	23.5	
		3	3				2	23.5	
		6	0				3	22.5	
		Channel		26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		814.7	831.5	848.3			

LTE_DSI 4

LTE Band 38_Ant1 (DS14)										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel		37850	38000	38150				
		Frequency (MHz)		2580	2595	2610				
20M	QPSK	1	0	24.56	24.49	24.51	0	25.5		
		1	50	24.73	24.70	24.56	0	25.5		
		1	99	24.43	24.45	24.35	0	25.5		
		50	0	23.62	23.56	23.59	1	24.5		
		50	25	23.54	23.52	23.41	1	24.5		
		50	50	23.48	23.44	23.48	1	24.5		
	16QAM	100	0	23.57	23.56	23.44	1	24.5		
		1	0	23.48	23.49	23.40	1	24.5		
		1	50	23.75	23.77	23.62	1	24.5		
		1	99	23.27	23.24	23.22	1	24.5		
		50	0	22.57	22.62	22.47	2	23.5		
		50	25	22.61	22.52	22.44	2	23.5		
	64QAM	50	50	22.59	22.54	22.41	2	23.5		
		100	0	22.61	22.61	22.42	2	23.5		
		1	0	22.08	22.08	22.12	2	23.5		
		1	50	22.24	22.27	22.17	2	23.5		
		1	99	22.12	21.96	22.09	2	23.5		
		50	0	21.61	21.49	21.48	3	22.5		
		50	25	21.60	21.50	21.53	3	22.5		
		50	50	21.60	21.51	21.34	3	22.5		
		100	0	21.47	21.48	21.48	3	22.5		
		BW	Modulation	Channel		37825	38000	38175	3GPP MPR (dB)	Max. Tune-up (dBm)
				Frequency (MHz)		2577.5	2595	2612.5		
		15M	QPSK	1	0				0	25.5
1	37						0	25.5		
1	74						0	25.5		
36	0						1	24.5		
36	19						1	24.5		
36	39						1	24.5		
16QAM	75		0				1	24.5		
	1		0				1	24.5		
	1		37				1	24.5		
	1		74				1	24.5		
	36		0				2	23.5		
	36		19				2	23.5		
64QAM	36		39				2	23.5		
	75		0				2	23.5		
	1		0				2	23.5		
	1		37				2	23.5		
	1		74				2	23.5		
	36		0				3	22.5		
	36		19				3	22.5		
	36		39				3	22.5		
	75		0				3	22.5		
	BW		Modulation	Channel		37800	38000	38200	3GPP MPR (dB)	Max. Tune-up (dBm)
				Frequency (MHz)		2575	2595	2615		
	10M		QPSK	1	0				0	25.5
1		24					0	25.5		
1		49					0	25.5		
25		0					1	24.5		
25		12					1	24.5		
25		25					1	24.5		
16QAM		50	0				1	24.5		
		1	0				1	24.5		
		1	24				1	24.5		
		1	49				1	24.5		
		25	0				2	23.5		
		25	12				2	23.5		
64QAM		25	25				2	23.5		
		50	0				2	23.5		
		1	0				2	23.5		
		1	24				2	23.5		
		1	49				2	23.5		
		25	0				3	22.5		
		25	12				3	22.5		
		25	25				3	22.5		
		50	0				3	22.5		
		BW	Modulation	Channel		37775	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)
				Frequency (MHz)		2572.5	2595	2617.5		
		5M	QPSK	1	0				0	25.5
1	12						0	25.5		
1	24						0	25.5		
12	0						1	24.5		
12	6						1	24.5		
12	13						1	24.5		
16QAM	25		0				1	24.5		
	1		0				1	24.5		
	1		12				1	24.5		
	1		24				1	24.5		
	12		0				2	23.5		
	12		6				2	23.5		
64QAM	12		13				2	23.5		
	25		0				2	23.5		
	1		0				2	23.5		
	1		12				2	23.5		
	1		24				2	23.5		
	12		0				3	22.5		
	12		6				3	22.5		
	12		13				3	22.5		
	25		0				3	22.5		

LTE_DSI 4

LTE Band 41_Ant1 (DSi4)										
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		39750	40185	40620	41055	41490		
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680		
20M	QPSK	1	0	24.31	24.47	24.52	24.27	24.24	0	25.5
		1	50	24.50	24.66	24.76	24.49	24.42	0	25.5
		1	99	24.21	24.37	24.32	24.14	24.28	0	25.5
		50	0	23.31	23.39	23.42	23.37	23.26	1	24.5
		50	25	23.38	23.43	23.55	23.38	23.32	1	24.5
		50	50	23.32	23.35	23.40	23.31	23.24	1	24.5
		100	0	23.24	23.55	23.61	23.44	23.36	1	24.5
	16QAM	1	0	23.38	23.48	23.49	23.19	23.16	1	24.5
		1	50	23.51	23.70	23.70	23.48	23.36	1	24.5
		1	99	23.05	23.26	23.35	23.06	23.21	1	24.5
		50	0	22.20	22.47	22.65	22.47	22.41	2	23.5
		50	25	22.29	22.52	22.59	22.53	22.36	2	23.5
		50	50	22.25	22.41	22.68	22.34	22.42	2	23.5
		100	0	22.34	22.53	22.63	22.41	22.36	2	23.5
	64QAM	1	0	21.95	21.92	22.01	22.01	21.9	2	23.5
		1	50	22.09	22.16	22.23	22.09	21.96	2	23.5
		1	99	21.97	21.97	22.01	21.92	22.08	2	23.5
		50	0	21.34	21.53	21.59	21.38	21.17	3	22.5
		50	25	21.27	21.45	21.64	21.42	21.39	3	22.5
		50	50	21.28	21.41	21.58	21.42	21.23	3	22.5
		100	0	21.30	21.55	21.54	21.36	21.25	3	22.5
15M	QPSK	Channel		39725	40173	40620	41068	41515	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5		
		1	0						0	25.5
		1	37						0	25.5
		1	74						0	25.5
		36	0						1	24.5
	16QAM	36	19						1	24.5
		36	39						1	24.5
		75	0						1	24.5
		1	0						1	24.5
		1	37						1	24.5
		1	74						1	24.5
		36	0						2	23.5
		36	19						2	23.5
		36	39						2	23.5
		75	0						2	23.5
	64QAM	1	0						2	23.5
		1	37						2	23.5
		1	74						2	23.5
		36	0						3	22.5
		36	19						3	22.5
		36	39						3	22.5
		75	0						3	22.5
10M	QPSK	Channel		39700	40160	40620	41080	41540	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2501	2547	2593	2639	2685		
		1	0						0	25.5
		1	24						0	25.5
		1	49						0	25.5
		25	0						1	24.5
	16QAM	25	12						1	24.5
		25	25						1	24.5
		50	0						1	24.5
		1	0						1	24.5
		1	24						1	24.5
		1	49						1	24.5
	64QAM	25	0						2	23.5
		25	12						2	23.5
		25	25						2	23.5
		50	0						2	23.5
		1	0						2	23.5
		1	24						2	23.5
5M	QPSK	1	49						2	23.5
		25	0						3	22.5
		25	12						3	22.5
		25	25						3	22.5
		50	0						3	22.5
		50	0						3	22.5
	16QAM	Channel		39675	40148	40620	41093	41565	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5		
		1	0						0	25.5
		1	12						0	25.5
		1	24						0	25.5
		12	0						1	24.5
	64QAM	12	6						1	24.5
		12	13						1	24.5
		25	0						1	24.5
		1	0						1	24.5
		1	12						1	24.5
		1	24						1	24.5
	QPSK	12	0						2	23.5
		12	6						2	23.5
		12	13						2	23.5
		25	0						2	23.5
		1	0						2	23.5
		1	12						2	23.5
	16QAM	1	24						2	23.5
		12	0						2	23.5
		12	6						2	23.5
		12	13						2	23.5
		25	0						2	23.5
		1	0						2	23.5
	64QAM	1	12						2	23.5
		1	24						2	23.5
		12	0						3	22.5
		12	6						3	22.5
		12	13						3	22.5
		25	0						3	22.5

LTE Band 41_Ant4 (DSi4)										
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		39750	40185	40620	41055	41490		
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680		
20M	QPSK	1	0	24.12	24.14	24.10	24.16	24.07	0	25.5
		1	50	24.31	24.26	24.42	24.19	24.20	0	25.5
		1	99	24.06	24.11	24.16	24.12	24.04	0	25.5
		50	0	23.20	23.10	23.20	23.13	22.99	1	24.5
		50	25	23.25	23.19	23.27	23.21	23.17	1	24.5
		50	50	23.19	23.15	23.18	23.16	23.04	1	24.5
		100	0	23.26	23.21	23.32	23.17	23.12	1	24.5
	16QAM	1	0	23.16	23.08	23.26	23.18	23.11	1	24.5
		1	50	23.36	23.39	23.48	23.21	23.22	1	24.5
		1	99	22.94	22.97	22.99	22.93	23.02	1	24.5
		50	0	22.27	22.24	22.35	22.13	22.16	2	23.5
		50	25	22.25	22.13	22.31	22.29	22.23	2	23.5
		50	50	22.17	22.12	22.29	22.16	22.17	2	23.5
		100	0	22.28	22.22	22.31	22.14	22.17	2	23.5
	64QAM	1	0	21.81	21.83	21.88	21.95	21.86	2	23.5
		1	50	22.04	21.96	21.97	21.93	22.38	2	23.5
		1	99	21.79	21.80	21.79	21.84	21.84	2	23.5
		50	0	21.08	21.19	21.33	21.20	21.03	3	22.5
		50	25	21.19	21.16	21.29	21.24	21.09	3	22.5
		50	50	21.15	21.22	21.35	21.23	21.12	3	22.5
		100	0	21.18	21.22	21.27	21.23	21.11	3	22.5
BW	Modulation	Channel	39725	40173	40620	41068	41515	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)	2503.5	2548.3	2593	2637.8	2682.5			
15M	QPSK	1	0						0	25.5
		1	37						0	25.5
		1	74						0	25.5
		36	0						1	24.5
		36	19						1	24.5
		36	39						1	24.5
		75	0						1	24.5
	16QAM	1	0						1	24.5
		1	37						1	24.5
		1	74						1	24.5
		36	0						2	23.5
		36	19						2	23.5
		36	39						2	23.5
		75	0						2	23.5
	64QAM	1	0						2	23.5
		1	37						2	23.5
		1	74						2	23.5
		36	0						3	22.5
		36	19						3	22.5
		36	39						3	22.5
		75	0						3	22.5
BW	Modulation	Channel	39700	40160	40620	41080	41540	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)	2501	2547	2593	2639	2685			
10M	QPSK	1	0						0	25.5
		1	24						0	25.5
		1	49						0	25.5
		25	0						1	24.5
		25	12						1	24.5
		25	25						1	24.5
		50	0						1	24.5
	16QAM	1	0						1	24.5
		1	24						1	24.5
		1	49						1	24.5
		25	0						2	23.5
		25	12						2	23.5
		25	25						2	23.5
		50	0						2	23.5
	64QAM	1	0						2	23.5
		1	24						2	23.5
		1	49						2	23.5
		25	0						3	22.5
		25	12						3	22.5
		25	25						3	22.5
		50	0						3	22.5
BW	Modulation	Channel	39675	40148	40620	41093	41566	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)	2498.5	2545.8	2593	2640.3	2687.5			
5M	QPSK	1	0						0	25.5
		1	12						0	25.5
		1	24						0	25.5
		12	0						1	24.5
		12	6						1	24.5
		12	13						1	24.5
		25	0						1	24.5
	16QAM	1	0						1	24.5
		1	12						1	24.5
		1	24						1	24.5
		12	0						2	23.5
		12	6						2	23.5
		12	13						2	23.5
		25	0						2	23.5
	64QAM	1	0						2	23.5
		1	12						2	23.5
		1	24						2	23.5
		12	0						3	22.5
		12	6						3	22.5
		12	13						3	22.5
		25	0						3	22.5

LTE_DSI4

LTE Band 66 Ant1 (DS14)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel	132672	132322	132672			
		Frequency (MHz)	1729	1745	1776			
20M	QPSK	1	0	24.40	24.36	24.45	0	25.5
		50	0	24.53	24.49	24.69	0	25.5
		1	99	24.42	24.41	24.54	0	25.5
		50	0	23.50	23.45	23.52	1	24.5
		50	25	23.57	23.53	23.69	1	24.5
		50	50	23.54	23.42	23.50	1	24.5
		100	0	23.50	23.43	23.55	1	24.5
		1	0	23.48	23.55	23.46	1	24.5
		1	50	23.76	23.71	23.91	1	24.5
		1	99	23.65	23.37	23.47	1	24.5
	16QAM	50	0	22.54	22.36	22.72	2	23.5
		50	25	22.56	22.41	22.63	2	23.5
		50	50	22.55	22.40	22.49	2	23.5
		100	0	22.55	22.37	22.55	2	23.5
		1	0	22.48	22.40	22.44	2	23.5
		1	50	22.80	22.71	22.81	2	23.5
		1	99	22.47	22.46	22.54	2	23.5
		50	0	21.43	21.41	21.62	3	22.5
		50	25	21.61	21.45	21.59	3	22.5
		50	50	21.58	21.36	21.53	3	22.5
	64QAM	100	0	21.47	21.36	21.58	3	22.5
		1	0					
		1	37					
		1	74					
		36	0					
		36	19					
		36	39					
		75	0					
		1	0					
		1	37					
		1	74					
		36	0					
		36	19					
		36	39					
		75	0					
		1	0					
		1	37					
		1	74					
		36	0					
		36	19					
		36	39					
		75	0					
15M	QPSK	1	0					
		1	37					
		1	74					
		36	0					
		36	19					
		36	39					
		75	0					
	16QAM	1	0					
		1	37					
		1	74					
		36	0					
		36	19					
		36	39					
		75	0					
	64QAM	1	0					
		1	37					
		1	74					
		36	0					
		36	19					
		36	39					
		75	0					
10M	QPSK	1	0					
		1	24					
		1	49					
		25	0					
		25	12					
		25	25					
		50	0					
	16QAM	1	0					
		1	24					
		1	49					
		25	0					
		25	12					
		25	25					
		50	0					
	64QAM	1	0					
		1	24					
		1	49					
		25	0					
		25	12					
		25	25					
		50	0					
5M	QPSK	1	0					
		1	12					
		1	24					
		12	0					
		12	6					
		12	13					
		25	0					
	16QAM	1	0					
		1	12					
		1	24					
		12	0					
		12	6					
		12	13					
		25	0					
	64QAM	1	0					
		1	12					
		1	24					
		12	0					
		12	6					
		12	13					
		25	0					
3M	QPSK	1	0					
		1	7					
		1	14					
		8	0					
		8	3					
		8	7					
		15	0					
	16QAM	1	0					
		1	7					
		1	14					
		8	0					
		8	3					
		8	7					
		15	0					
	64QAM	1	0					
		1	7					
		1	14					
		8	0					
		8	3					
		8	7					
		15	0					
1.4M	QPSK	1	0					
		1	2					
		1	5					
		3	0					
		3	1					
		3	3					
		6	0					
	16QAM	1	0					
		1	2					
		1	5					
		3	0					
		3	1					
		3	3					
		6	0					
	64QAM	1	0					
		1	2					
		1	5					
		3	0					
		3	1					
		3	3					
		6	0					

LTE Band 66 Ant4 (DS14)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel	132672	132322	132672			
		Frequency (MHz)	1726	1745	1770			
20M	QPSK	1	0	21.26	21.28	21.35	0	22.5
		1	50	21.38	21.34	21.56	0	22.5
		1	99	21.16	21.27	21.30	0	22.5
		50	0	21.28	21.36	21.25	0	22.5
		50	25	21.38	21.44	21.47	0	22.5
		50	50	21.22	21.29	21.36	0	22.5
		100	0	21.32	21.22	21.41	0	22.5
	16QAM	1	0	21.17	21.21	21.17	0	22.5
		1	50	21.36	21.25	21.20	0	22.5
		1	99	21.15	21.36	21.41	0	22.5
		50	0	21.30	21.26	21.02	0	22.5
		50	25	21.28	21.23	21.23	0	22.5
		50	50	21.34	21.35	21.29	0	22.5
		100	0	21.32	21.26	21.16	0	22.5
		1	0	21.10	21.33	21.24	0	22.5
	64QAM	1	50	21.26	21.21	21.31	0	22.5
		1	99	21.25	21.16	21.12	0	22.5
		50	0	21.38	21.34	21.11	0	22.5
		50	25	21.19	21.16	21.34	0	22.5
		50	50	21.18	21.16	21.22	0	22.5
		100	0	21.35	21.30	21.11	0	22.5
		1	0					
		1	37					
		1	74					
		36	0					
		36	19					
		36	39					
		75	0					
15M	QPSK	1	0					
		1	37					
		1	74					
		36	0					
		36	19					
		36	39					
		75	0					
	16QAM	1	0					
		1	37					
		1	74					
		36	0					

LTE_DSI 5

LTE Band 2 Ant1 (DS15)										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel	Frequency (MHz)	18700	18800	18900				19000
20M	QPSK	1	0	20.29	20.28	20.25	0	21.5		
		1	50	20.31	20.42	20.36	0	21.5		
		1	99	20.24	20.32	20.33	0	21.5		
		50	0	20.23	20.25	20.27	0	21.5		
		50	25	20.27	20.36	20.31	0	21.5		
		50	50	20.21	20.29	20.24	0	21.5		
		100	0	20.25	20.31	20.26	0	21.5		
		1	0	20.26	20.21	20.23	0	21.5		
		1	50	20.27	20.31	20.29	0	21.5		
		1	99	20.30	20.35	20.26	0	21.5		
	16QAM	50	0	20.29	20.13	20.24	0	21.5		
		50	25	20.32	20.22	20.28	0	21.5		
		50	50	20.36	20.26	20.27	0	21.5		
		100	0	20.22	20.15	20.26	0	21.5		
		1	0	20.11	20.20	20.20	0	21.5		
		1	50	20.23	20.13	20.29	0	21.5		
		1	99	20.14	20.14	20.22	0	21.5		
		50	0	20.18	20.08	20.15	0	21.5		
		50	25	20.07	20.24	20.21	0	21.5		
		50	50	19.96	20.00	19.99	0	21.5		
	64QAM	100	0	20.10	20.02	20.05	0	21.5		
		1	0	20.11	20.02	20.05	0	21.5		
		1	50	20.23	20.13	20.29	0	21.5		
		1	99	20.14	20.14	20.22	0	21.5		
		50	0	20.18	20.08	20.15	0	21.5		
		50	25	20.07	20.24	20.21	0	21.5		
	BW	Modulation	Channel	Frequency (MHz)	1867.5	1880	1902.5	3GPP MPR (dB)	Max. Tune-up (dBm)	
Frequency (MHz)			1867.5	1880	1902.5					
15M	QPSK	1	0				0	21.5		
		1	37				0	21.5		
		1	74				0	21.5		
		36	0				0	21.5		
		36	19				0	21.5		
		36	39				0	21.5		
		75	0				0	21.5		
	16QAM	1	0				0	21.5		
		1	37				0	21.5		
		1	74				0	21.5		
		36	0				0	21.5		
		36	19				0	21.5		
		36	39				0	21.5		
		75	0				0	21.5		
	64QAM	1	0				0	21.5		
		1	37				0	21.5		
		1	74				0	21.5		
		36	0				0	21.5		
		36	19				0	21.5		
		36	39				0	21.5		
		75	0				0	21.5		
	BW	Modulation	Channel	Frequency (MHz)	1862.5	1880	1915	3GPP MPR (dB)	Max. Tune-up (dBm)	
			Frequency (MHz)	1862.5	1880	1905				
	10M	QPSK	1	0				0	21.5	
			1	24				0	21.5	
			1	49				0	21.5	
			25	0				0	21.5	
25			12				0	21.5		
25			25				0	21.5		
50			0				0	21.5		
16QAM		1	0				0	21.5		
		1	24				0	21.5		
		1	49				0	21.5		
		25	0				0	21.5		
		25	12				0	21.5		
		25	25				0	21.5		
		50	0				0	21.5		
64QAM		1	0				0	21.5		
		1	24				0	21.5		
		1	49				0	21.5		
		25	0				0	21.5		
		25	12				0	21.5		
		25	25				0	21.5		
		50	0				0	21.5		
BW		Modulation	Channel	Frequency (MHz)	1862.5	1880	1917.5	3GPP MPR (dB)	Max. Tune-up (dBm)	
			Frequency (MHz)	1862.5	1880	1907.5				
5M		QPSK	1	0				0	21.5	
			1	12				0	21.5	
			1	24				0	21.5	
			12	0				0	21.5	
	12		6				0	21.5		
	12		13				0	21.5		
	25		0				0	21.5		
	16QAM	1	0				0	21.5		
		1	12				0	21.5		
		1	24				0	21.5		
		12	0				0	21.5		
		12	6				0	21.5		
		12	13				0	21.5		
		25	0				0	21.5		
	64QAM	1	0				0	21.5		
		1	12				0	21.5		
		1	24				0	21.5		
		12	0				0	21.5		
		12	6				0	21.5		
		12	13				0	21.5		
		25	0				0	21.5		
	BW	Modulation	Channel	Frequency (MHz)	1861.5	1880	1918.5	3GPP MPR (dB)	Max. Tune-up (dBm)	
			Frequency (MHz)	1861.5	1880	1909.5				
	3M	QPSK	1	0				0	21.5	
			1	7				0	21.5	
			1	14				0	21.5	
			8	0				0	21.5	
8			3				0	21.5		
8			7				0	21.5		
15			0				0	21.5		
16QAM		1	0				0	21.5		
		1	7				0	21.5		
		1	14				0	21.5		
		8	0				0	21.5		
		8	3				0	21.5		
		8	7				0	21.5		
		15	0				0	21.5		
64QAM		1	0				0	21.5		
		1	7				0	21.5		
		1	14				0	21.5		
		8	0				0	21.5		
		8	3				0	21.5		
		8	7				0	21.5		
		15	0				0	21.5		
BW		Modulation	Channel	Frequency (MHz)	1860.7	1880	1909.3	3GPP MPR (dB)	Max. Tune-up (dBm)	
			Frequency (MHz)	1860.7	1880	1909.3				
1.4M		QPSK	1	0				0	21.5	
			1	2				0	21.5	
			1	5				0	21.5	
			3	0				0	21.5	
	3		1				0	21.5		
	3		3				0	21.5		
	6		0				0	21.5		
	16QAM	1	0				0	21.5		
		1	2				0	21.5		
		1	5				0	21.5		
		3	0				0	21.5		
		3	1				0	21.5		
		3	3				0	21.5		
		6	0				0	21.5		
	64QAM	1	0				0	21.5		
		1	2				0	21.5		
		1	5				0	21.5		
		3	0				0	21.5		
		3	1				0	21.5		
		3	3				0	21.5		
		6	0				0	21.5		

LTE Band 2 Ant4 (DSIS)										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP	Max.		
		Channel					MPR	Tune-up		
		Frequency (MHz)	1880	1880	1900	1900	(dB)	(dBm)		
20M	QPSK	1 0	17.62	17.69	17.68		0	19		
		1 50	17.60	17.77	17.83		0	19		
		1 99	17.65	17.71	17.63		0	19		
		50 0	17.67	17.62	17.68		0	19		
		50 25	17.73	17.69	17.79		0	19		
		50 50	17.66	17.62	17.71		0	19		
	16QAM	100 0	17.63	17.71	17.75		0	19		
		1 0	17.67	17.76	17.71		0	19		
		1 50	17.79	17.75	17.79		0	19		
		1 99	17.71	17.68	17.70		0	19		
		50 0	17.68	17.67	17.68		0	19		
		50 25	17.70	17.65	17.66		0	19		
	64QAM	50 50	17.62	17.73	17.68		0	19		
		100 0	17.62	17.68	17.70		0	19		
		1 0	17.65	17.76	17.69		0	19		
		1 50	17.62	17.72	17.68		0	19		
		1 99	17.72	17.63	17.68		0	19		
		50 0	17.67	17.67	17.64		0	19		
	BW	Modulation	Channel	1867.5	1880	1912.5	3GPP	Max.		
			Frequency (MHz)	1867.5	1880	1902.5	MPR	Tune-up		
	15M	QPSK	1 0					0	19	
1 37							0	19		
1 74							0	19		
36 0							0	19		
36 19							0	19		
36 39							0	19		
16QAM		75 0					0	19		
		1 0					0	19		
		1 37					0	19		
		1 74					0	19		
		36 0					0	19		
		36 19					0	19		
64QAM		36 39					0	19		
		75 0					0	19		
		1 0					0	19		
		1 37					0	19		
		1 74					0	19		
		36 0					0	19		
BW		Modulation	Channel	1962.5	1980	1915	3GPP	Max.		
			Frequency (MHz)	1955	1980	1905	MPR	Tune-up		
10M		QPSK	1 24					0	19	
	1 49						0	19		
	25 0						0	19		
	25 12						0	19		
	25 25						0	19		
	50 0						0	19		
	16QAM	1 0					0	19		
		1 24					0	19		
		1 49					0	19		
		25 0					0	19		
		25 12					0	19		
		25 25					0	19		
	64QAM	50 0					0	19		
		1 0					0	19		
		1 24					0	19		
		1 49					0	19		
		25 0					0	19		
		25 12					0	19		
	BW	Modulation	Channel	1962.5	1980	1917.5	3GPP	Max.		
			Frequency (MHz)	1952.5	1980	1907.5	MPR	Tune-up		
	5M	QPSK	1 0					0	19	
1 12							0	19		
1 24							0	19		
12 0							0	19		
12 6							0	19		
12 13							0	19		
16QAM		25 0					0	19		
		1 0					0	19		
		1 12					0	19		
		1 24					0	19		
		12 0					0	19		
		12 6					0	19		
64QAM		12 13					0	19		
		25 0					0	19		
		1 0					0	19		
		1 12					0	19		
		1 24					0	19		
		12 0					0	19		
BW		Modulation	Channel	1961.5	1980	1915	3GPP	Max.		
			Frequency (MHz)	1951.5	1980	1909.5	MPR	Tune-up		
3M		QPSK	1 0					0	19	
	1 7						0	19		
	1 14						0	19		
	8 0						0	19		
	8 3						0	19		
	8 7						0	19		
	16QAM	15 0					0	19		
		1 0					0	19		
		1 7					0	19		
		1 14					0	19		
		8 0					0	19		
		8 3					0	19		
	64QAM	8 7					0	19		
		15 0					0	19		
		1 0					0	19		
		1 7					0	19		
		1 14					0	19		
		8 0					0	19		
	BW	Modulation	Channel	1867	1880	1913	3GPP	Max.		
			Frequency (MHz)	1850.7	1880	1909.3	MPR	Tune-up		
	1.4M	QPSK	1 0					0	19	
1 2							0	19		
1 5							0	19		
3 1							0	19		
3 3							0	19		
6 0							0	19		
16QAM		1 0					0	19		
		1 2					0	19		
		1 5					0	19		
		3 1					0	19		
		3 3					0	19		
		6 0					0	19		
64QAM		1 0					0	19		
		1 2					0	19		
		1 5					0	19		
		3 0					0	19		
		3 1					0	19		
		3 3					0	19		

LTE_DSI 5

LTE Band 4_Ant1 (DSi5)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel Frequency (MHz)		20050 1729	20175 1732.5	20300 1745		
20M	QPSK	1	0	21.31	21.29	21.23	0	22.5
		1	50	21.43	21.46	21.37	0	22.5
		1	99	21.18	21.41	21.35	0	22.5
		50	0	21.20	21.32	21.26	0	22.5
		50	25	21.33	21.39	21.35	0	22.5
		50	50	21.14	21.23	21.30	0	22.5
		100	0	21.29	21.31	21.26	0	22.5
	16QAM	1	0	21.36	21.26	21.27	0	22.5
		1	50	21.36	21.25	21.35	0	22.5
		1	99	21.26	21.36	21.40	0	22.5
		50	0	21.33	21.13	21.26	0	22.5
		50	25	21.36	21.28	21.22	0	22.5
		50	50	21.43	21.39	21.39	0	22.5
		100	0	21.27	21.09	21.23	0	22.5
	64QAM	1	0	21.31	21.19	21.32	0	22.5
		1	50	21.20	21.22	21.30	0	22.5
		1	99	21.12	21.10	21.17	0	22.5
		50	0	21.35	21.14	21.36	0	22.5
		50	25	21.20	21.37	21.23	0	22.5
		50	50	21.16	21.21	21.16	0	22.5
		100	0	21.31	21.14	21.21	0	22.5
BW	Modulation	Channel		20025 1717.5	20175 1732.5	20325 1747.5	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1732.5	1747.5		
15M	QPSK	1	0				0	22.5
		1	37				0	22.5
		1	74				0	22.5
		36	0				0	22.5
		36	19				0	22.5
		36	39				0	22.5
		75	0				0	22.5
	16QAM	1	0				0	22.5
		1	37				0	22.5
		1	74				0	22.5
		36	0				0	22.5
		36	19				0	22.5
		36	39				0	22.5
		75	0				0	22.5
	64QAM	1	0				0	22.5
		1	37				0	22.5
		1	74				0	22.5
		36	0				0	22.5
		36	19				0	22.5
		36	39				0	22.5
		75	0				0	22.5
BW	Modulation	Channel		20000 1717.5	20175 1732.5	20350 1750	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1732.5	1750		
10M	QPSK	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
		25	12				0	22.5
		25	25				0	22.5
		50	0				0	22.5
	16QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
		25	12				0	22.5
		25	25				0	22.5
		50	0				0	22.5
	64QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
		25	12				0	22.5
		25	25				0	22.5
		50	0				0	22.5
BW	Modulation	Channel		19975 1712.5	20175 1732.5	20375 1752.5	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1732.5	1752.5		
5M	QPSK	1	0				0	22.5
		1	12				0	22.5
		1	24				0	22.5
		12	0				0	22.5
		12	6				0	22.5
		12	13				0	22.5
		25	0				0	22.5
	16QAM	1	0				0	22.5
		1	12				0	22.5
		1	24				0	22.5
		12	0				0	22.5
		12	6				0	22.5
		12	13				0	22.5
		25	0				0	22.5
	64QAM	1	0				0	22.5
		1	12				0	22.5
		1	24				0	22.5
		12	0				0	22.5
		12	6				0	22.5
		12	13				0	22.5
		25	0				0	22.5
BW	Modulation	Channel		19965 1711.5	20175 1732.5	20385 1753.5	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1732.5	1753.5		
3M	QPSK	1	0				0	22.5
		1	7				0	22.5
		1	14				0	22.5
		8	0				0	22.5
		8	3				0	22.5
		8	7				0	22.5
		15	0				0	22.5
	16QAM	1	0				0	22.5
		1	7				0	22.5
		1	14				0	22.5
		8	0				0	22.5
		8	3				0	22.5
		8	7				0	22.5
		15	0				0	22.5
	64QAM	1	0				0	22.5
		1	7				0	22.5
		1	14				0	22.5
		8	0				0	22.5
		8	3				0	22.5
		8	7				0	22.5
		15	0				0	22.5
BW	Modulation	Channel		19957 1710.7	20175 1732.5	20393 1754.3	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1732.5	1754.3		
1.4M	QPSK	1	0				0	22.5
		1	2				0	22.5
		1	5				0	22.5
		3	0				0	22.5
		3	1				0	22.5
		3	3				0	22.5
		6	0				0	22.5
	16QAM	1	0				0	22.5
		1	2				0	22.5
		1	5				0	22.5
		3	0				0	22.5
		3	1				0	22.5
		3	3				0	22.5
		6	0				0	22.5
	64QAM	1	0				0	22.5
		1	2				0	22.5
		1	5				0	22.5
		3	0				0	22.5
		3	1				0	22.5
		3	3				0	22.5
		6	0				0	22.5

LTE Band 4_Ant4 (DSi5)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP	Max.
		Channel		20050	20175	20300	MPR	Tune-up
		Frequency (MHz)	1726	1732.5	1745	(dB)	(dBm)	
20M	QPSK	1	0	14.75	14.87	14.84	0	16
		1	50	14.91	14.94	14.89	0	16
		1	99	14.79	14.85	14.75	0	16
		50	0	14.76	14.81	14.82	0	16
		50	25	14.79	14.88	14.83	0	16
		50	50	14.73	14.84	14.79	0	16
		100	0	14.78	14.91	14.87	0	16
	16QAM	1	0	14.87	14.85	14.93	0	16
		1	50	14.78	14.86	14.79	0	16
		1	99	14.90	14.89	14.92	0	16
		50	0	14.78	14.82	14.83	0	16
		50	25	14.92	14.81	14.88	0	16
		50	50	14.72	14.88	14.85	0	16
		100	0	14.81	14.82	14.90	0	16
	64QAM	1	0	14.81	14.84	14.78	0	16
		1	50	14.78	14.82	14.90	0	16
		1	99	14.88	14.80	14.79	0	16
		50	0	14.76	14.84	14.74	0	16
		50	25	14.91	14.92	14.87	0	16
		50	50	14.87	14.80	14.78	0	16
		100	0	14.83	14.89	14.80	0	16
BW	Modulation	Channel	20025	20175	20325	3GPP	Max.	
		Frequency (MHz)	1717.5	1732.5	1747.5	MPR	Tune-up	
15M	QPSK	1	0				0	16
		1	37				0	16
		1	74				0	16
		36	0				0	16
		36	19				0	16
		36	39				0	16
		75	0				0	16
	16QAM	1	0				0	16
		1	37				0	16
		1	74				0	16
		36	0				0	16
		36	19				0	16
		36	39				0	16
		75	0				0	16
	64QAM	1	0				0	16
		1	37				0	16
		1	74				0	16
		36	0				0	16
		36	19				0	16
		36	39				0	16
		75	0				0	16
BW	Modulation	Channel	20000	20175	20350	3GPP	Max.	
		Frequency (MHz)	1715	1732.5	1750	MPR	Tune-up	
10M	QPSK	1	24				0	16
		1	49				0	16
		25	0				0	16
		25	12				0	16
		25	25				0	16
		50	0				0	16
		1	0				0	16
	16QAM	1	24				0	16
		1	49				0	16
		25	0				0	16
		25	12				0	16
		25	25				0	16
		50	0				0	16
		1	0				0	16
	64QAM	1	24				0	16
		1	49				0	16
		25	0				0	16
		25	12				0	16
		25	25				0	16
		50	0				0	16
		1	0				0	16
BW	Modulation	Channel	19975	20175	20375	3GPP	Max.	
		Frequency (MHz)	1712.5	1732.5	1752.5	MPR	Tune-up	
5M	QPSK	1	0				0	16
		1	12				0	16
		1	24				0	16
		12	0				0	16
		12	6				0	16
		12	13				0	16
		25	0				0	16
	16QAM	1	0				0	16
		1	12				0	16
		1	24				0	16
		12	0				0	16
		12	6				0	16
		12	13				0	16
		25	0				0	16
	64QAM	1	0				0	16
		1	12				0	16
		1	24				0	16
		12	0				0	16
		12	6				0	16
		12	13				0	16
		25	0				0	16
BW	Modulation	Channel	19965	20175	20385	3GPP	Max.	
		Frequency (MHz)	1711.5	1732.5	1753.5	MPR	Tune-up	
3M	QPSK	1	0				0	16
		1	7				0	16
		1	14				0	16
		8	0				0	16
		8	3				0	16
		8	7				0	16
		15	0				0	16
	16QAM	1	0				0	16
		1	7				0	16
		1	14				0	16
		8	0				0	16
		8	3				0	16
		8	7				0	16
		15	0				0	16
	64QAM	1	0				0	16
		1	7				0	16
		1	14				0	16
		8	0				0	16
		8	3				0	16
		8	7				0	16
		15	0				0	16
BW	Modulation	Channel	19967	20175	20393	3GPP	Max.	
		Frequency (MHz)	1716.7	1732.5	1754.3	MPR	Tune-up	
1.4M	QPSK	1	0				0	16
		1	2				0	16
		1	5				0	16
		3	1				0	16
		3	3				0	16
		6	0				0	16
		1	0				0	16
	16QAM	1	2				0	16
		1	5				0	16
		3	1				0	16
		3	3				0	16
		6	0				0	16
		1	0				0	16
		1	2				0	16
	64QAM	1	2				0	16
		1	5				0	16
		3	0				0	16
		3	1				0	16
		3	3				0	16
		6	0				0	16
		1	0				0	16

LTE_DSI 5

LTE Band 5_Ant1 (DSI5)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20450	20525	20600		
		Frequency (MHz)		829	836.5	844		
10M	QPSK	1	0	24.42	24.39	24.32	0	25.5
		1	24	24.49	24.45	24.60	0	25.5
		1	49	24.28	24.30	24.42	0	25.5
		25	0	23.43	23.40	23.43	1	24.5
		25	12	23.45	23.42	23.47	1	24.5
		25	25	23.38	23.36	23.31	1	24.5
		50	0	23.37	23.41	23.43	1	24.5
		1	0	23.60	23.58	23.60	1	24.5
	16QAM	1	24	23.76	23.71	23.78	1	24.5
		1	49	23.57	23.57	23.60	1	24.5
		25	0	22.44	22.51	22.62	2	23.5
		25	12	22.48	22.58	22.54	2	23.5
		25	25	22.45	22.46	22.56	2	23.5
		50	0	22.47	22.55	22.37	2	23.5
		1	0	22.51	22.62	22.51	2	23.5
		1	24	22.72	22.64	22.57	2	23.5
	64QAM	1	49	22.61	22.62	22.77	2	23.5
		25	0	21.49	21.52	21.62	3	22.5
		25	12	21.46	21.54	21.51	3	22.5
		25	25	21.57	21.52	21.53	3	22.5
		50	0	21.53	21.46	21.47	3	22.5
		Channel		20425	20525	20625	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5		
5M	QPSK	1	0				0	25.5
		1	12				0	25.5
		1	24				0	25.5
		12	0				1	24.5
		12	6				1	24.5
		12	13				1	24.5
		25	0				1	24.5
		1	0				1	24.5
	16QAM	1	12				1	24.5
		1	24				1	24.5
		12	0				2	23.5
		12	6				2	23.5
		12	13				2	23.5
		25	0				2	23.5
		1	0				2	23.5
		1	12				2	23.5
	64QAM	1	24				2	23.5
		12	0				3	22.5
		12	6				3	22.5
		12	13				3	22.5
		25	0				3	22.5
		Channel		20415	20525	20635	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5		
3M	QPSK	1	0				0	25.5
		1	7				0	25.5
		1	14				0	25.5
		8	0				1	24.5
		8	3				1	24.5
		8	7				1	24.5
		15	0				1	24.5
		1	0				1	24.5
	16QAM	1	7				1	24.5
		1	14				1	24.5
		8	0				2	23.5
		8	3				2	23.5
		8	7				2	23.5
		15	0				2	23.5
		1	0				2	23.5
		1	7				2	23.5
	64QAM	1	14				2	23.5
		8	0				3	22.5
		8	3				3	22.5
		8	7				3	22.5
		15	0				3	22.5
		Channel		20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3		
1.4M	QPSK	1	0				0	25.5
		1	2				0	25.5
		1	5				0	25.5
		3	0				0	25.5
		3	1				0	25.5
		3	3				0	25.5
		6	0				1	24.5
		1	0				1	24.5
	16QAM	1	2				1	24.5
		1	5				1	24.5
		3	0				1	24.5
		3	1				1	24.5
		3	3				1	24.5
		6	0				2	23.5
		1	0				2	23.5
		1	2				2	23.5
	64QAM	1	5				2	23.5
		3	0				2	23.5
		3	1				2	23.5
		3	3				2	23.5
		6	0				3	22.5

LTE Band 5_Ant4 (DSI5)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20450	20525	20600		
		Frequency (MHz)		829	836.5	844		
10M	QPSK	1	0	21.76	21.87	21.90	0	23
		1	24	21.93	22.03	21.95	0	23
		1	49	21.80	21.87	21.89	0	23
		25	0	21.85	21.91	21.89	0	23
		25	12	21.75	21.83	21.78	0	23
		25	25	21.70	21.87	21.76	0	23
		50	0	21.77	21.99	21.90	0	23
		1	0	21.88	21.81	22.02	0	23
	16QAM	1	24	21.82	21.88	21.88	0	23
		1	49	21.99	21.87	21.91	0	23
		25	0	21.76	21.85	21.85	0	23
		25	12	21.91	21.82	21.83	0	23
		25	25	21.73	21.98	21.90	0	23
		50	0	21.87	21.80	21.89	0	23
		1	0	21.76	21.81	21.76	0	23
		1	24	21.81	21.90	21.94	0	23
	64QAM	1	49	21.88	21.78	21.75	0	23
		25	0	21.30	21.29	21.30	0.5	22.5
		25	12	21.39	21.46	21.45	0.5	22.5
		25	25	21.35	21.35	21.31	0.5	22.5
		50	0	21.30	21.43	21.36	0.5	22.5
		Channel		20425	20525	20625	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5		
5M		QPSK	1	0				0
	1		12				0	23
	1		24				0	23
	12		0				0	23
	12		6				0	23
	12		13				0	23
	25		0				0	23
	1		0				0	23
	16QAM	1	12				0	23
		1	24				0	23
		12	0				0	23
		12	6				0	23
		12	13				0	23
		25	0				0	23
		1	0				0	23
		1	12				0	23
	64QAM	1	24				0	23
		12	0				0.5	22.5
		12	6				0.5	22.5
		12	13				0.5	22.5
		25	0				0.5	22.5
		Channel		20415	20525	20635	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5		
3M		QPSK	1	0				0
	1		7				0	23
	1		14				0	23
	8		0				0	23
	8		3				0	23
	8		7				0	23
	15		0				0	23
	1		0				0	23
	16QAM	1	7				0	23
		1	14				0	23
		8	0				0	23
		8	3				0	23
		8	7				0	23
		15	0				0	23
		1	0				0	23
		1	7				0	23
	64QAM	1	14				0	23
		8	0				0.5	22.5
		8	3				0.5	22.5
		8	7				0.5	22.5
		15	0				0.5	22.5
		Channel		20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3		
1.4M		QPSK	1	0				0
	1		2				0	23
	1		5				0	23
	3		0				0	23
	3		1				0	23
	3		3				0	23
	6		0				0	23
	1		0				0	23
	16QAM	1	2				0	23
		1	5				0	23
		3	0				0	23
		3	1				0	23
		3	3				0	23
		6	0				0	23
		1	0				0	23
		1	2				0	23
	64QAM	1	5				0	23
		3	0				0	23
		3	1				0	23
		3	3				0	23
		6	0				0.5	22.5
		Channel		20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3		

LTE_DSI 5

LTE Band 7_Ant1 (DSI5)										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel		20850	21100	21350				
		Frequency (MHz)		2510	2535	2560				
20M	QPSK	1	0	20.34	20.36	20.39	0	21.5		
		1	50	20.39	20.43	20.52	0	21.5		
		1	99	20.33	20.39	20.47	0	21.5		
		50	0	20.18	20.27	20.34	0	21.5		
		50	25	20.34	20.38	20.49	0	21.5		
		50	50	20.25	20.25	20.40	0	21.5		
	16QAM	100	0	20.31	20.34	20.42	0	21.5		
		1	0	20.32	20.34	20.18	0	21.5		
		1	50	20.43	20.32	20.28	0	21.5		
		1	99	20.24	20.41	20.38	0	21.5		
		50	0	20.25	20.18	20.08	0	21.5		
		50	25	20.40	20.23	20.19	0	21.5		
	64QAM	50	50	20.44	20.38	20.34	0	21.5		
		100	0	20.30	20.30	20.14	0	21.5		
		1	0	20.13	20.25	20.29	0	21.5		
		1	50	20.23	20.30	20.22	0	21.5		
		1	99	20.22	20.18	20.16	0	21.5		
		50	0	20.23	20.20	20.09	0	21.5		
	64QAM	50	25	20.14	20.18	20.24	0	21.5		
		50	50	20.16	20.23	20.36	0	21.5		
		100	0	20.15	20.16	20.26	0	21.5		
		BW	Modulation	Channel		20825	21100	21375	3GPP MPR (dB)	Max. Tune-up (dBm)
				Frequency (MHz)		2507.5	2535	2562.5		
		15M	QPSK	1	0				0	21.5
1	37						0	21.5		
1	74						0	21.5		
36	0						0	21.5		
36	19						0	21.5		
36	39						0	21.5		
16QAM	75		0				0	21.5		
	1		0				0	21.5		
	1		37				0	21.5		
	1		74				0	21.5		
	36		0				0	21.5		
	36		19				0	21.5		
64QAM	36		39				0	21.5		
	75		0				0	21.5		
	1		0				0	21.5		
	1		37				0	21.5		
	1		74				0	21.5		
	36		0				0	21.5		
10M	QPSK		36	19				0	21.5	
			36	39				0	21.5	
			75	0				0	21.5	
			1	0				0	21.5	
			1	37				0	21.5	
			1	74				0	21.5	
	16QAM	36	0				0	21.5		
		36	19				0	21.5		
		36	39				0	21.5		
		75	0				0	21.5		
		1	0				0	21.5		
		1	37				0	21.5		
5M	QPSK	1	0				0	21.5		
		1	24				0	21.5		
		1	49				0	21.5		
		25	0				0	21.5		
		25	12				0	21.5		
		25	25				0	21.5		
	16QAM	50	0				0	21.5		
		1	0				0	21.5		
		1	24				0	21.5		
		1	49				0	21.5		
		25	0				0	21.5		
		25	12				0	21.5		
64QAM	25	25				0	21.5			
	50	0				0	21.5			
	1	0				0	21.5			
	1	24				0	21.5			
	1	49				0	21.5			
	25	0				0	21.5			
BW	Modulation	Channel		20775	21100	21425	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Frequency (MHz)		2502.5	2535	2567.5				
		5M	QPSK	1	0				0	21.5
				1	12				0	21.5
				1	24				0	21.5
				12	0				0	21.5
	12			6				0	21.5	
	12			13				0	21.5	
	16QAM		25	0				0	21.5	
			1	0				0	21.5	
			1	12				0	21.5	
			1	24				0	21.5	
12			0				0	21.5		
12			6				0	21.5		
64QAM	12		13				0	21.5		
	25		0				0	21.5		
	1		0				0	21.5		
	1		12				0	21.5		
	1		24				0	21.5		
	12		0				0	21.5		
64QAM	12	6				0	21.5			
	12	13				0	21.5			
	25	0				0	21.5			
	1	0				0	21.5			
	1	12				0	21.5			
	1	24				0	21.5			

LTE_DSI 5

LTE Band 13_Ant1 (DSI5)								
BW	Modulation	RB Size	RB Offset	Mid		3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		23230				
		Frequency (MHz)		782				
10M	QPSK	1	0		24.48		0	25.5
		1	24		24.50		0	25.5
		1	49		24.35		0	25.5
		25	0		23.52		1	24.5
		25	12		23.56		1	24.5
		25	25		23.48		1	24.5
		50	0		23.53		1	24.5
	16QAM	1	0		23.89		1	24.5
		1	24		23.76		1	24.5
		1	49		23.61		1	24.5
		25	0		22.61		2	23.5
		25	12		22.55		2	23.5
		25	25		22.54		2	23.5
		50	0		22.48		2	23.5
	64QAM	1	0		22.70		2	23.5
		1	24		22.82		2	23.5
		1	49		22.62		2	23.5
		25	0		21.58		3	22.5
		25	12		21.54		3	22.5
		25	25		21.52		3	22.5
		50	0		21.48		3	22.5
	BW	Modulation	Channel	23205	23230	23255	3GPP MPR (dB)	Max. Tune-up (dBm)
			Frequency (MHz)	779.5	782	784.5		
5M	QPSK	1	0				0	25.5
		1	12				0	25.5
		1	24				0	25.5
		12	0				1	24.5
		12	6				1	24.5
		12	13				1	24.5
		25	0				1	24.5
	16QAM	1	0				1	24.5
		1	12				1	24.5
		1	24				1	24.5
		12	0				2	23.5
		12	6				2	23.5
		12	13				2	23.5
		25	0				2	23.5
	64QAM	1	0				2	23.5
		1	12				2	23.5
		1	24				2	23.5
		12	0				3	22.5
		12	6				3	22.5
		12	13				3	22.5
		25	0				3	22.5

LTE Band 13_Ant4 (DSI5)									
BW	Modulation	RB Size	RB Offset	Mid		3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel		23230					
		Frequency (MHz)		782					
10M	QPSK	1	0		23.26		0	24.5	
		1	24		23.28		0	24.5	
		1	49		22.99		0	24.5	
		25	0		23.18		0	24.5	
		25	12		23.24		0	24.5	
		25	25		23.11		0	24.5	
		50	0		23.13		0	24.5	
	16QAM	1	0		23.19		0	24.5	
		1	24		23.27		0	24.5	
		1	49		23.13		0	24.5	
		25	0		22.36		1	23.5	
		25	12		22.32		1	23.5	
		25	25		22.44		1	23.5	
		50	0		22.43		1	23.5	
	64QAM	1	0		22.25		1	23.5	
		1	24		22.29		1	23.5	
		1	49		22.19		1	23.5	
		25	0		21.33		2	22.5	
		25	12		21.16		2	22.5	
		25	25		21.30		2	22.5	
		50	0		21.26		2	22.5	
	BW	Modulation	Channel		23205	23230	23255	3GPP MPR (dB)	Max. Tune-up (dBm)
			Frequency (MHz)		779.5	782	784.5		
5M	QPSK	1	0				0	24.5	
		1	12				0	24.5	
		1	24				0	24.5	
		12	0				0	24.5	
		12	6				0	24.5	
		12	13				0	24.5	
		25	0				0	24.5	
	16QAM	1	0				0	24.5	
		1	12				0	24.5	
		1	24				0	24.5	
		12	0				1	23.5	
		12	6				1	23.5	
		12	13				1	23.5	
		25	0				1	23.5	
	64QAM	1	0				1	23.5	
		1	12				1	23.5	
		1	24				1	23.5	
		12	0				2	22.5	
		12	6				2	22.5	
		12	13				2	22.5	
		25	0				2	22.5	

LTE Band 26_Ant1 (DSi5)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		26765	26865	26965			
		Frequency (MHz)		821.5	831.5	841.5			
15M	QPSK	1	0	24.37	24.39	24.46	0	25.5	
		1	37	24.48	24.45	24.52	0	25.5	
		1	74	24.41	24.33	24.44	0	25.5	
		36	0	23.57	23.59	23.52	1	24.5	
		36	19	23.60	23.66	23.69	1	24.5	
		36	39	23.56	23.63	23.56	1	24.5	
		75	0	23.46	23.57	23.58	1	24.5	
		1	0	23.68	23.74	23.80	1	24.5	
	16QAM	1	37	23.72	23.86	23.74	1	24.5	
		1	74	23.71	23.69	23.59	1	24.5	
		36	0	22.56	22.56	22.55	2	23.5	
		36	19	22.59	22.66	22.63	2	23.5	
		36	39	22.61	22.55	22.62	2	23.5	
		75	0	22.56	22.70	22.64	2	23.5	
		1	0	22.73	22.73	22.65	2	23.5	
		1	37	22.82	22.72	22.82	2	23.5	
	64QAM	1	74	22.68	22.69	22.68	2	23.5	
		36	0	21.57	21.66	21.58	3	22.5	
		36	19	21.58	21.68	21.58	3	22.5	
		36	39	21.53	21.56	21.56	3	22.5	
		75	0	21.47	21.67	21.61	3	22.5	
		Channel		26740	26865	26990	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		819	831.5	844			
		BW	Modulation	Channel		26715	26865	27015	3GPP MPR (dB)
Frequency (MHz)		816.5	831.5	846.5					
10M	QPSK	1	0				0	25.5	
		1	24				0	25.5	
		1	49				0	25.5	
		25	0				1	24.5	
		25	12				1	24.5	
		25	25				1	24.5	
		50	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	24				1	24.5	
		1	49				1	24.5	
		25	0				2	23.5	
		25	12				2	23.5	
		25	25				2	23.5	
		50	0				2	23.5	
		1	0				2	23.5	
		1	24				2	23.5	
	64QAM	1	49				2	23.5	
		25	0				3	22.5	
		25	12				3	22.5	
		25	25				3	22.5	
		50	0				3	22.5	
		50	0				3	22.5	
		50	0				3	22.5	
		50	0				3	22.5	
BW	Modulation	Channel		26715	26865	27015	3GPP MPR (dB)	Max. Tune-up (dBm)	
Frequency (MHz)		816.5	831.5	846.5					
5M	QPSK	1	0				0	25.5	
		1	12				0	25.5	
		1	24				0	25.5	
		12	0				1	24.5	
		12	6				1	24.5	
		12	13				1	24.5	
		25	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	12				1	24.5	
		1	24				1	24.5	
		12	0				2	23.5	
		12	6				2	23.5	
		12	13				2	23.5	
		25	0				2	23.5	
		1	0				2	23.5	
		1	12				2	23.5	
	64QAM	1	24				2	23.5	
		12	0				3	22.5	
		12	6				3	22.5	
		12	13				3	22.5	
		25	0				3	22.5	
		25	0				3	22.5	
		25	0				3	22.5	
		25	0				3	22.5	
BW	Modulation	Channel		26705	26865	27025	3GPP MPR (dB)	Max. Tune-up (dBm)	
Frequency (MHz)		815.5	831.5	847.5					
3M	QPSK	1	0				0	25.5	
		1	7				0	25.5	
		1	14				0	25.5	
		8	0				1	24.5	
		8	3				1	24.5	
		8	7				1	24.5	
		15	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	7				1	24.5	
		1	14				1	24.5	
		8	0				2	23.5	
		8	3				2	23.5	
		8	7				2	23.5	
		15	0				2	23.5	
		1	0				2	23.5	
		1	7				2	23.5	
	64QAM	1	14				2	23.5	
		8	0				3	22.5	
		8	3				3	22.5	
		8	7				3	22.5	
		15	0				3	22.5	
		15	0				3	22.5	
		15	0				3	22.5	
		15	0				3	22.5	
BW	Modulation	Channel		26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)	
Frequency (MHz)		814.7	831.5	848.3					
1.4M	QPSK	1	0				0	25.5	
		1	2				0	25.5	
		1	5				0	25.5	
		3	0				0	25.5	
		3	1				0	25.5	
		3	3				0	25.5	
		6	0				1	24.5	
		1	0				1	24.5	
	16QAM	1	2				1	24.5	
		1	5				1	24.5	
		3	0				1	24.5	
		3	1				1	24.5	
		3	3				1	24.5	
		6	0				2	23.5	
		1	0				2	23.5	
		1	2				2	23.5	
	64QAM	1	5				2	23.5	
		3	0				2	23.5	
		3	1				2	23.5	
		3	3				2	23.5	
		6	0				2	23.5	
		6	0				2	23.5	
		6	0				2	23.5	
		6	0				2	23.5	

LTE Band 26_Ant4 (DSi5)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		26765	26865	26965			
		Frequency (MHz)		821.5	831.5	841.5			
15M	QPSK	1	0	22.34	22.25	22.28	0	23.5	
		1	37	22.37	22.39	22.43	0	23.5	
		1	74	22.30	22.33	22.24	0	23.5	
		36	0	22.21	22.23	22.25	0	23.5	
		36	19	22.25	22.27	22.32	0	23.5	
		36	39	22.18	22.26	22.16	0	23.5	
		75	0	22.24	22.23	22.29	0	23.5	
		1	0	22.24	22.19	22.28	0	23.5	
	16QAM	1	37	22.23	22.34	22.21	0	23.5	
		1	74	22.33	22.25	22.25	0	23.5	
		36	0	22.27	22.13	22.37	0	23.5	
		36	19	22.24	22.24	22.31	0	23.5	
		36	39	22.31	22.38	22.22	0	23.5	
		75	0	22.26	22.12	22.38	0	23.5	
		1	0	22.21	22.22	22.22	0	23.5	
		1	37	22.21	22.28	22.30	0	23.5	
	64QAM	1	74	22.29	22.26	22.20	0	23.5	
		36	0	21.34	21.32	21.28	1	22.5	
		36	19	21.30	21.37	21.33	1	22.5	
		36	39	21.18	21.24	21.23	1	22.5	
		75	0	21.25	21.13	21.25	1	22.5	
		Channel		26740	26865	26990	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		819	831.5	844			
		10M	QPSK	1	0				0
1	24						0	23.5	
1	49						0	23.5	
25	0						0	23.5	
25	12						0	23.5	
25	25						0	23.5	
50	0						0	23.5	
1	0						0	23.5	
16QAM	1		24				0	23.5	
	1		49				0	23.5	
	25		0				0	23.5	
	25		12				0	23.5	
	25		25				0	23.5	
	50		0				0	23.5	
	1		0				0	23.5	
	1		24				0	23.5	
64QAM	1		49				0	23.5	
	25		0				1	22.5	
	25		12				1	22.5	
	25		25				1	22.5	
	50		0				1	22.5	
	Channel		26715	26865	27015	3GPP MPR (dB)	Max. Tune-up (dBm)		
	Frequency (MHz)		816.5	831.5	846.5				
	5M		QPSK	1	0				0
1		12					0	23.5	
1		24					0	23.5	
12		0					0	23.5	
12		6					0	23.5	
12		13					0	23.5	
25		0					0	23.5	
1		0					0	23.5	
16QAM		1	12				0	23.5	
		1	24				0	23.5	
		12	0				0	23.5	
		12	6				0	23.5	
		12	13				0	23.5	
		25	0				0	23.5	
		1	0				0	23.5	
		1	12				0	23.5	
64QAM		1	24				0	23.5	
		12	0				1	22.5	
		12	6				1	22.5	
		12	13				1	22.5	
		25	0				1	22.5	
		Channel		26705	26865	27025	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		815.5	831.5	847.5			
		3M	QPSK	1	0				0
1	7						0	23.5	
1	14						0	23.5	
8	0						0	23.5	
8	3						0	23.5	
8	7						0	23.5	
15	0						0	23.5	
1	0						0	23.5	
16QAM	1		7				0	23.5	
	1		14				0	23.5	
	8		0				0	23.5	
	8		3				0	23.5	
	8		7				0	23.5	
	15		0				0	23.5	
	1		0				0	23.5	
	1		7				0	23.5	
64QAM	1		14				0	23.5	
	8		0				1	22.5	
	8		3				1	22.5	
	8		7				1	22.5	
	15		0				1	22.5	
	Channel		26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)		
	Frequency (MHz)		814.7	831.5	848.3				
	1.4M		QPSK	1	0				0
1		2					0	23.5	
1		5					0	23.5	
3		0					0	23.5	
3		1					0	23.5	
3		3					0	23.5	
6		0					0	23.5	
1		0					0	23.5	
16QAM		1	2				0	23.5	
		1	5				0	23.5	
		3	0				0	23.5	
		3	1				0	23.5	
		3	3				0	23.5	
		6	0				0	23.5	
		1	0				0	23.5	
		1	2				0	23.5	
64QAM		1	5				0	23.5	
		3	0				0	23.5	
		3	1				0	23.5	
		3	3				0	23.5	
		6	0				1	22.5	
		Channel		26697	26865	27033	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)		814.7	831.5	848.3			

LTE_DSI 5

LTE Band 38_Ant1 (DS15)								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		37850	38000	38150		
		Frequency (MHz)		2580	2595	2610		
20M	QPSK	1	0	22.59	22.56	22.69	0	23.5
		1	50	22.79	22.67	22.75	0	23.5
		1	99	22.68	22.65	22.63	0	23.5
		50	0	22.73	22.67	22.64	0	23.5
		50	25	22.57	22.63	22.59	0	23.5
		50	50	22.63	22.51	22.50	0	23.5
	16QAM	100	0	22.65	22.55	22.63	0	23.5
		1	0	22.51	22.63	22.55	0	23.5
		1	50	22.56	22.65	22.65	0	23.5
		1	99	22.64	22.64	22.67	0	23.5
		50	0	22.69	22.65	22.51	0	23.5
		50	25	22.65	22.56	22.57	0	23.5
	64QAM	50	50	22.68	22.63	22.56	0	23.5
		100	0	22.62	22.61	22.52	0	23.5
		1	0	22.64	22.62	22.54	0	23.5
		1	50	22.61	22.55	22.68	0	23.5
		1	99	22.71	22.62	22.68	0	23.5
		50	0	21.62	21.64	21.68	1	22.5
15M	QPSK	50	25	21.59	21.55	21.53	1	22.5
		50	50	21.60	21.66	21.61	1	22.5
		100	0	21.51	21.69	21.60	1	22.5
	16QAM	Channel		37825	38000	38175	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2577.5	2595	2612.5		
		1	0				0	23.5
		1	37				0	23.5
		1	74				0	23.5
		36	0				0	23.5
	64QAM	36	19				0	23.5
		36	39				0	23.5
		75	0				0	23.5
		1	0				0	23.5
		1	37				0	23.5
		1	74				0	23.5
10M	QPSK	36	0				0	23.5
		36	19				0	23.5
		36	39				0	23.5
		75	0				0	23.5
	16QAM	1	0				0	23.5
		1	37				0	23.5
		1	74				0	23.5
		36	0				0	23.5
		36	19				0	23.5
		36	39				0	23.5
	64QAM	75	0				0	23.5
		1	0				0	23.5
		1	37				0	23.5
		1	74				0	23.5
		36	0				1	22.5
		36	19				1	22.5
5M	QPSK	36	39				1	22.5
		75	0				1	22.5
		Channel		37800	38000	38200	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2575	2595	2615		
		1	0				0	23.5
		1	24				0	23.5
	16QAM	1	49				0	23.5
		25	0				0	23.5
		25	12				0	23.5
		25	25				0	23.5
		50	0				0	23.5
		1	0				0	23.5
	64QAM	1	24				0	23.5
		1	49				0	23.5
		25	0				1	22.5
		25	12				1	22.5
		25	25				1	22.5
		50	0				1	22.5
5M	QPSK	Channel		37775	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5		
		1	0				0	23.5
		1	12				0	23.5
		1	24				0	23.5
		12	0				0	23.5
	16QAM	12	6				0	23.5
		12	13				0	23.5
		25	0				0	23.5
		1	0				0	23.5
		1	12				0	23.5
		1	24				0	23.5
5M	QPSK	12	0				0	23.5
		12	6				0	23.5
		12	13				0	23.5
		25	0				0	23.5
		1	0				0	23.5
		1	12				0	23.5
	16QAM	1	24				0	23.5
		12	0				0	23.5
		12	6				0	23.5
		12	13				0	23.5
		25	0				0	23.5
		1	0				0	23.5
5M	QPSK	1	12				0	23.5
		1	24				0	23.5
		12	0				1	22.5
		12	6				1	22.5
		12	13				1	22.5
		25	0				1	22.5
	16QAM	1	0				0	23.5
		1	12				0	23.5
		1	24				0	23.5
		12	0				1	22.5
		12	6				1	22.5
		12	13				1	22.5
5M	QPSK	25	0				1	22.5
		Channel		37775	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5		
		1	0				0	23.5
		1	12				0	23.5
		1	24				0	23.5
		12	0				0	23.5
	16QAM	12	6				0	23.5
		12	13				0	23.5
		25	0				0	23.5
		1	0				0	23.5
		1	12				0	23.5
		1	24				0	23.5
5M	QPSK	12	0				0	23.5
		12	6				0	23.5
		12	13				0	23.5
		25	0				0	23.5
		1	0				0	23.5
		1	12				0	23.5
	16QAM	1	24				0	23.5
		12	0				0	23.5
		12	6				0	23.5
		12	13				0	23.5
		25	0				0	23.5
		1	0				0	23.5
5M	QPSK	1	12				0	23.5
		1	24				0	23.5
		12	0				0	23.5
		12	6				0	23.5
		12	13				0	23.5
		25	0				0	23.5
	16QAM	1	0				0	23.5
		1	12				0	23.5
		1	24				0	23.5
		12	0				0	23.5
		12	6				0	23.5
		12	13				0	23.5
5M	QPSK	25	0				0	23.5
		Channel		37775	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5		
		1	0				0	23.5
		1	12				0	23.5
		1	24				0	23.5
		12	0				0	23.5
	16QAM	12	6				0	23.5
		12	13				0	23.5
		25	0				0	23.5
		1	0				0	23.5
		1	12				0	23.5
		1	24				0	23.5
5M	QPSK	12	0				0	23.5
		12	6				0	23.5
		12	13				0	23.5
		25	0				0	23.5
		1	0				0	23.5
		1	12				0	23.5
	16QAM	1	24				0	23.5
		12	0				0	23.5
		12	6				0	23.5
		12	13				0	23.5
		25	0				0	23.5
		1	0				0	23.5

LTE Band 38_Ant4 (DS15)										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel		37850	38000	38150				
		Frequency (MHz)		2580	2595	2610				
20M	QPSK	1	0	19.80	19.89	19.89	0	21		
		1	50	19.93	20.10	20.01	0	21		
		1	99	19.81	19.99	19.96	0	21		
		50	0	19.82	19.93	19.94	0	21		
		50	25	19.90	19.97	19.96	0	21		
		50	50	19.75	19.95	19.92	0	21		
	16QAM	100	0	19.86	19.93	19.89	0	21		
		1	0	19.80	19.76	19.86	0	21		
		1	50	19.94	19.89	19.78	0	21		
		1	99	19.85	19.86	19.94	0	21		
		50	0	19.89	19.71	19.79	0	21		
		50	25	19.84	19.92	19.88	0	21		
	64QAM	50	50	20.01	19.87	19.86	0	21		
		100	0	19.86	19.72	19.80	0	21		
		1	0	19.73	19.78	19.79	0	21		
		1	50	19.75	19.75	19.79	0	21		
		1	99	19.82	19.70	19.78	0	21		
		50	0	19.97	19.69	19.94	0	21		
	20M	16QAM	50	25	19.78	19.97	19.74	0	21	
			50	50	19.86	19.81	19.70	0	21	
			100	0	19.89	19.64	19.86	0	21	
			64QAM	1	0	19.73	19.78	19.79	0	21
				1	50	19.75	19.75	19.79	0	21
				1	99	19.82	19.70	19.78	0	21
50	0	19.97		19.69	19.94	0	21			
50	25	19.78		19.97	19.74	0	21			
50	50	19.86		19.81	19.70	0	21			
20M	64QAM	100	0	19.89	19.64	19.86	0	21		
		BW	Modulation	Channel		37825	38000	38175	3GPP MPR (dB)	Max. Tune-up (dBm)
				Frequency (MHz)		2577.5	2595	2612.5		
Frequency (MHz)				2577.5	2595	2612.5				
15M	QPSK	1	0				0	21		
		1	37				0	21		
		1	74				0	21		
		36	0				0	21		
		36	19				0	21		
		36	39				0	21		
	16QAM	75	0				0	21		
		1	0				0	21		
		1	37				0	21		
		1	74				0	21		
		36	0				0	21		
		36	19				0	21		
	64QAM	36	39				0	21		
		75	0				0	21		
		1	0				0	21		
		1	37				0	21		
		1	74				0	21		
		36	0				0	21		
	10M	QPSK	36	19				0	21	
			36	39				0	21	
			75	0				0	21	
			1	0				0	21	
			1	37				0	21	
			1	74				0	21	
16QAM	36	0				0	21			
	36	19				0	21			
	36	39				0	21			
	75	0				0	21			
	1	0				0	21			
	1	37				0	21			
64QAM	1	74				0	21			
	36	0				0	21			
	36	19				0	21			
	36	39				0	21			
	75	0				0	21			
	BW	Modulation	Channel		37800	38000	38200	3GPP MPR (dB)	Max. Tune-up (dBm)	
Frequency (MHz)			2575	2595	2615					
Frequency (MHz)			2575	2595	2615					
10M	QPSK	1	0				0	21		
		1	24				0	21		
		1	49				0	21		
		25	0				0	21		
		25	12				0	21		
		25	25				0	21		
	16QAM	50	0				0	21		
		1	0				0	21		
		1	24				0	21		
		1	49				0	21		
		25	0				0	21		
		25	12				0	21		
	64QAM	25	25				0	21		
		50	0				0	21		
		1	0				0	21		
		1	24				0	21		
		1	49				0	21		
		25	0				0	21		
	5M	QPSK	25	12				0	21	
			25	25				0	21	
			50	0				0	21	
			1	0				0	21	
			1	12				0	21	
			1	24				0	21	
16QAM	12	0				0	21			
	12	6				0	21			
	12	13				0	21			
	12	6				0	21			
	12	13				0	21			
	25	0				0	21			
64QAM	1	0				0	21			
	1	12				0	21			
	1	24				0	21			
	12	0				0	21			
	12	6				0	21			
	12	13				0	21			
BW	Modulation	Channel		37775	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Frequency (MHz)		2572.5	2595	2617.5				
		Frequency (MHz)		2572.5	2595	2617.5				
5M	QPSK	1	0				0	21		
		1	12				0	21		
		1	24				0	21		
		12	0				0	21		
		12	6				0	21		
		12	13				0	21		
	16QAM	25	0				0	21		
		1	0				0	21		
		1	12				0	21		
		1	24				0	21		
		12	0				0	21		
		12	6				0	21		
	64QAM	12	13				0	21		
		25	0				0	21		
		1	0				0	21		
		1	12				0	21		
		1	24				0	21		
		12	0				0	21		
	10M	QPSK	12	6				0	21	
			12	13				0	21	
			25	0				0	21	
			1	0				0	21	
			1	12				0	21	
			1	24				0	21	
16QAM	12	0				0	21			
	12	6				0	21			
	12	13				0	21			
	25	0				0	21			
	1	0				0	21			
	1	12				0	21			
64QAM	1	24				0	21			
	12	0				0	21			
	12	6				0	21			
	12	13				0	21			
	25	0				0	21			
	25	0				0	21			

LTE_DSI 5

LTE Band 41_Ant1 (DSi5)										
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		39750	40185	40620	41055	41490		
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680		
20M	QPSK	1	0	22.52	22.69	22.71	22.59	22.65	0	23.5
		1	50	22.70	22.76	22.87	22.65	22.64	0	23.5
		1	99	22.66	22.57	22.79	22.63	22.76	0	23.5
		50	0	22.65	22.62	22.65	22.67	22.64	0	23.5
		50	25	22.74	22.70	22.75	22.73	22.68	0	23.5
		50	50	22.67	22.63	22.67	22.66	22.54	0	23.5
		100	0	22.54	22.52	22.78	22.58	22.7	0	23.5
		1	0	22.70	22.69	22.61	22.55	22.53	0	23.5
	16QAM	1	50	22.57	22.48	22.54	22.5	22.82	0	23.5
		1	99	22.60	22.56	22.45	22.64	22.75	0	23.5
		50	0	22.52	22.49	22.42	22.58	22.4	0	23.5
		50	25	22.46	22.57	22.65	22.49	22.52	0	23.5
		50	50	22.51	22.58	22.57	22.57	22.48	0	23.5
		100	0	22.53	22.47	22.51	22.46	22.43	0	23.5
		1	0	22.39	22.30	22.28	22.25	22.2	0	23.5
		1	50	22.30	22.27	22.35	22.31	22.57	0	23.5
	64QAM	1	99	22.41	22.24	22.40	22.38	22.34	0	23.5
		50	0	21.42	21.45	21.37	21.45	21.41	1	22.5
		50	25	21.35	21.39	21.19	21.36	21.23	1	22.5
		50	50	21.57	21.31	21.52	21.49	21.46	1	22.5
		100	0	21.51	21.44	21.28	21.37	21.34	1	22.5
15M	QPSK	Channel		39725	40173	40620	41068	41515	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5		
		1	0						0	23.5
		1	37						0	23.5
		1	74						0	23.5
		36	0						0	23.5
		36	19						0	23.5
		36	39						0	23.5
	16QAM	75	0						0	23.5
		1	0						0	23.5
		1	37						0	23.5
		1	74						0	23.5
		36	0						0	23.5
		36	19						0	23.5
		36	39						0	23.5
		75	0						0	23.5
	64QAM	1	0						0	23.5
		1	37						0	23.5
		1	74						0	23.5
		36	0						1	22.5
		36	19						1	22.5
		36	39						1	22.5
		75	0						1	22.5
10M	QPSK	Channel		39700	40160	40620	41080	41540	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2501	2547	2593	2639	2685		
		1	0						0	23.5
		1	24						0	23.5
		1	49						0	23.5
		25	0						0	23.5
		25	12						0	23.5
		25	25						0	23.5
	16QAM	50	0						0	23.5
		1	0						0	23.5
		1	24						0	23.5
		1	49						0	23.5
		25	0						0	23.5
		25	12						0	23.5
		25	25						0	23.5
		50	0						0	23.5
	64QAM	1	0						0	23.5
		1	24						0	23.5
		1	49						0	23.5
		25	0						1	22.5
		25	12						1	22.5
		25	25						1	22.5
		50	0						1	22.5
5M	QPSK	Channel		39675	40148	40620	41093	41565	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5		
		1	0						0	23.5
		1	12						0	23.5
		1	24						0	23.5
		12	0						0	23.5
		12	6						0	23.5
		12	13						0	23.5
	16QAM	25	0						0	23.5
		1	0						0	23.5
		1	12						0	23.5
		1	24						0	23.5
		12	0						0	23.5
		12	6						0	23.5
		12	13						0	23.5
		25	0						0	23.5
	64QAM	1	0						0	23.5
		1	12						0	23.5
		1	24						0	23.5
		12	0						1	22.5
		12	6						1	22.5
		12	13						1	22.5
		25	0						1	22.5

LTE Band 41_Ant4 (DSi5)										
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		39750	40185	40620	41055	41490		
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680		
20M	QPSK	1	0	19.97	19.90	19.68	19.62	19.65	0	21
		1	50	20.01	19.97	20.06	19.87	19.81	0	21
		1	99	19.88	19.93	19.80	19.78	19.74	0	21
		50	0	19.75	19.66	19.77	19.72	19.63	0	21
		50	25	19.84	19.82	19.87	19.79	19.83	0	21
		50	50	19.73	19.77	19.79	19.68	19.69	0	21
		100	0	19.77	19.80	19.89	19.72	19.77	0	21
	16QAM	1	0	19.71	19.86	19.65	19.56	19.72	0	21
		1	50	19.81	19.62	19.64	19.76	19.75	0	21
		1	99	19.64	19.66	19.57	19.66	19.65	0	21
		50	0	19.67	19.49	19.62	19.72	19.53	0	21
		50	25	19.71	19.78	19.70	19.80	19.75	0	21
		50	50	19.78	19.67	19.59	19.80	19.73	0	21
		100	0	19.74	19.68	19.63	19.58	19.61	0	21
	64QAM	1	0	19.53	19.53	19.58	19.76	19.64	0	21
		1	50	19.59	19.72	19.67	19.60	19.57	0	21
		1	99	19.66	19.60	19.47	19.63	19.58	0	21
		50	0	19.85	19.64	19.56	19.81	19.54	0	21
		50	25	19.55	19.59	19.65	19.66	19.74	0	21
		50	50	19.59	19.71	19.75	19.55	19.70	0	21
		100	0	19.69	19.52	19.70	19.72	19.62	0	21
BW	Modulation	Channel	39725	40173	40620	41068	41515	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)	2503.5	2548.3	2593	2637.8	2682.5			
15M	QPSK	1	0						0	21
		1	37						0	21
		1	74						0	21
		36	0						0	21
		36	19						0	21
		36	39						0	21
		75	0						0	21
	16QAM	1	0						0	21
		1	37						0	21
		1	74						0	21
		36	0						0	21
		36	19						0	21
		36	39						0	21
		75	0						0	21
	64QAM	1	0						0	21
		1	37						0	21
		1	74						0	21
		36	0						0	21
		36	19						0	21
		36	39						0	21
		75	0						0	21
BW	Modulation	Channel	39700	40160	40620	41080	41540	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)	2501	2547	2593	2639	2685			
10M	QPSK	1	0						0	21
		1	24						0	21
		1	49						0	21
		25	0						0	21
		25	12						0	21
		25	25						0	21
		50	0						0	21
	16QAM	1	0						0	21
		1	24						0	21
		1	49						0	21
		25	0						0	21
		25	12						0	21
		25	25						0	21
		50	0						0	21
	64QAM	1	0						0	21
		1	24						0	21
		1	49						0	21
		25	0						0	21
		25	12						0	21
		25	25						0	21
		50	0						0	21
BW	Modulation	Channel	39675	40148	40620	41093	41665	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Frequency (MHz)	2498.5	2545.8	2593	2640.3	2687.5			
5M	QPSK	1	0						0	21
		1	12						0	21
		1	24						0	21
		12	0						0	21
		12	6						0	21
		12	13						0	21
		25	0						0	21
	16QAM	1	0						0	21
		1	12						0	21
		1	24						0	21
		12	0						0	21
		12	6						0	21
		12	13						0	21
		25	0						0	21
	64QAM	1	0						0	21
		1	12						0	21
		1	24						0	21
		12	0						0	21
		12	6						0	21
		12	13						0	21
		25	0						0	21

LTE_DSI 5

LTE Band 66_Ant1 (DSIS)								
BW	Modulation	RB Size Channel	RB Offset	Low 132672 Frequency (MHz)	Mid 132322 1745	High 132572 1775	3GPP MPR (dB)	Max. Time-up (dBm)
20M	QPSK	1	0	21.37	21.42	21.39	0	22.5
		1	50	21.48	21.44	21.58	0	22.5
		1	99	21.31	21.40	21.45	0	22.5
		50	0	21.36	21.39	21.43	0	22.5
		50	25	21.42	21.49	21.56	0	22.5
		50	50	21.30	21.43	21.42	0	22.5
		100	0	21.42	21.38	21.46	0	22.5
		1	0	21.32	21.35	21.32	0	22.5
		1	50	21.51	21.36	21.36	0	22.5
		1	99	21.30	21.46	21.49	0	22.5
	16QAM	50	0	21.39	21.35	21.18	0	22.5
		50	25	21.36	21.34	21.36	0	22.5
		50	50	21.50	21.45	21.49	0	22.5
		100	0	21.36	21.37	21.23	0	22.5
		1	0	21.25	21.45	21.25	0	22.5
		1	50	21.30	21.35	21.35	0	22.5
		1	99	21.36	21.33	21.25	0	22.5
		50	0	21.48	21.47	21.17	0	22.5
		50	25	21.25	21.29	21.45	0	22.5
		50	50	21.31	21.19	21.28	0	22.5
	64QAM	100	0	21.36	21.37	21.12	0	22.5
15M	QPSK	Channel		132647 Frequency (MHz)	132322 1745	132597 1775.5	3GPP MPR (dB)	Max. Time-up (dBm)
		1	0				0	22.5
		1	37				0	22.5
		1	74				0	22.5
		36	0				0	22.5
		36	19				0	22.5
		36	39				0	22.5
		75	0				0	22.5
	16QAM	1	0				0	22.5
		1	37				0	22.5
		1	74				0	22.5
		36	0				0	22.5
		36	19				0	22.5
		36	39				0	22.5
		75	0				0	22.5
	64QAM	1	0				0	22.5
		1	37				0	22.5
		1	74				0	22.5
		36	0				0	22.5
		36	19				0	22.5
		36	39				0	22.5
		75	0				0	22.5
10M	QPSK	Channel		132622 Frequency (MHz)	132322 1745	132622 1775	3GPP MPR (dB)	Max. Time-up (dBm)
		1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
		25	12				0	22.5
		25	25				0	22.5
		50	0				0	22.5
	16QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
		25	12				0	22.5
		25	25				0	22.5
		50	0				0	22.5
	64QAM	1	0				0	22.5
		1	24				0	22.5
		1	49				0	22.5
		25	0				0	22.5
		25	12				0	22.5
		25	25				0	22.5
		50	0				0	22.5
5M	QPSK	Channel		131987 Frequency (MHz)	132322 1745	132657 1775.5	3GPP MPR (dB)	Max. Time-up (dBm)
		1	0				0	22.5
		1	12				0	22.5
		1	24				0	22.5
		12	0				0	22.5
		12	6				0	22.5
		12	13				0	22.5
		25	0				0	22.5
	16QAM	1	0				0	22.5
		1	12				0	22.5
		1	24				0	22.5
		12	0				0	22.5
		12	6				0	22.5
		12	13				0	22.5
		25	0				0	22.5
	64QAM	1	0				0	22.5
		1	12				0	22.5
		1	24				0	22.5
		12	0				0	22.5
		12	6				0	22.5
		12	13				0	22.5
		25	0				0	22.5
3M	QPSK	Channel		131987 Frequency (MHz)	132322 1745	132657 1775.5	3GPP MPR (dB)	Max. Time-up (dBm)
		1	0				0	22.5
		1	7				0	22.5
		1	14				0	22.5
		8	0				0	22.5
		8	3				0	22.5
		8	7				0	22.5
		15	0				0	22.5
	16QAM	1	0				0	22.5
		1	7				0	22.5
		1	14				0	22.5
		8	0				0	22.5
		8	3				0	22.5
		8	7				0	22.5
		15	0				0	22.5
	64QAM	1	0				0	22.5
		1	7				0	22.5
		1	14				0	22.5
		8	0				0	22.5
		8	3				0	22.5
		8	7				0	22.5
		15	0				0	22.5
1.4M	QPSK	Channel		131979 Frequency (MHz)	132322 1745	132665 1779.3	3GPP MPR (dB)	Max. Time-up (dBm)
		1	0				0	22.5
		1	2				0	22.5
		1	5				0	22.5
		3	0				0	22.5
		3	1				0	22.5
		3	3				0	22.5
		6	0				0	22.5
	16QAM	1	0				0	22.5
		1	2				0	22.5
		1	5				0	22.5
		3	0				0	22.5
		3	1				0	22.5
		3	3				0	22.5
		6	0				0	22.5
	64QAM	1	0				0	22.5
		1	2				0	22.5
		1	5				0	22.5
		3	0				0	22.5
		3	1				0	22.5
		3	3				0	22.5
		6	0				0	22.5

LTE Band 66 Ant4 (DSIS)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Time-up (dBm)	
		Channel	Frequency (MHz)	132672	132322	132572			
20M	QPSK	1	0	14.79	14.87	14.72	0	16	
		1	50	14.85	14.90	14.96	0	16	
		1	99	14.66	14.79	14.81	0	16	
		50	0	14.78	14.71	14.88	0	16	
		50	25	14.83	14.76	14.93	0	16	
		50	50	14.78	14.82	14.86	0	16	
		100	0	14.62	14.81	14.85	0	16	
		1	0	14.55	14.74	14.59	0	16	
		1	50	14.67	14.72	14.54	0	16	
		1	99	14.52	14.62	14.82	0	16	
	16QAM	50	0	14.52	14.73	14.59	0	16	
		50	25	14.49	14.54	14.66	0	16	
		50	50	14.70	14.73	14.64	0	16	
		100	0	14.69	14.59	14.63	0	16	
		1	0	14.76	14.55	14.73	0	16	
		1	50	14.53	14.70	14.66	0	16	
		1	99	14.54	14.64	14.78	0	16	
		50	0	14.65	14.49	14.70	0	16	
		50	25	14.65	14.73	14.68	0	16	
		50	50	14.76	14.60	14.85	0	16	
	64QAM	100	0	14.51	14.56	14.74	0	16	
		1	0	14.51	14.56	14.74	0	16	
	BW	Modulation	Channel	Frequency (MHz)	132647	132322	132647	3GPP MPR (dB)	Max. Time-up (dBm)
			Frequency (MHz)	1717.5	1745	1772.5	0	16	
15M	QPSK	1	0				0	16	
		1	37				0	16	
		1	74				0	16	
		36	0				0	16	
		36	19				0	16	
		36	39				0	16	
		75	0				0	16	
		1	0				0	16	
		1	37				0	16	
		1	74				0	16	
	16QAM	36	0				0	16	
		36	19				0	16	
		36	39				0	16	
		75	0				0	16	
		1	0				0	16	
		1	37				0	16	
		1	74				0	16	
		36	0				0	16	
		36	19				0	16	
		36	39				0	16	
	64QAM	75	0				0	16	
		1	0				0	16	
		1	37				0	16	
		1	74				0	16	
10M	QPSK	1	24				0	16	
		1	49				0	16	
		25	0				0	16	
		25	12				0	16	
		25	25				0	16	
		50	0				0	16	
		1	0				0	16	
		1	24				0	16	
		1	49				0	16	
		25	0				0	16	
	16QAM	25	12				0	16	
		25	25				0	16	
		50	0				0	16	
		1	0				0	16	
		1	24				0	16	
		1	49				0	16	
		25	0				0	16	
		25	12				0	16	
		25	25				0	16	
		50	0				0	16	
	64QAM	1	0				0	16	
		1	24				0	16	
		1	49				0	16	
		25	0				0	16	
5M	QPSK	1	12				0	16	
		1	24				0	16	
		12	0				0	16	
		12	6				0	16	
		12	13				0	16	
		25	0				0	16	
		1	0				0	16	
		1	12				0	16	
		1	24				0	16	
		12	0				0	16	
	16QAM	12	6				0	16	
		12	13				0	16	
		25	0				0	16	
		1	0				0	16	
		1	12				0	16	
		1	24				0	16	
		12	0				0	16	
		12	6				0	16	
		12	13				0	16	
		25	0				0	16	
	64QAM	1	0				0	16	
		1	12				0	16	
		1	24				0	16	
		12	0				0	16	
3M	QPSK	1	0				0	16	
		1	7				0	16	
		1	14				0	16	
		8	0				0	16	
		8	3				0	16	
		8	7				0	16	
		15	0				0	16	
		1	0				0	16	
		1	7				0	16	
		1	14				0	16	
	16QAM	8	0				0	16	
		8	3				0	16	
		8	7				0	16	
		15	0				0	16	
		1	0				0	16	
		1	7				0	16	
		1	14				0	16	
		8	0				0	16	
		8	3				0	16	
		8	7				0	16	
	64QAM	15	0				0	16	
		1	0				0	16	
		1	7				0	16	
		1	14				0	16	
1.4M	QPSK	1	0				0	16	
		1	2				0	16	
		1	5				0	16	
		3	0				0	16	
		3	1				0	16	
		3	3				0	16	
		6	0				0	16	
		1	0				0	16	
		1	2				0	16	
		1	5				0	16	
	16QAM	3	0				0	16	
		3	1				0	16	
		3	3				0	16	
		6	0				0	16	
		1	0				0	16	
		1	2				0	16	
		1	5				0	16	
		3	0				0	16	
		3	1				0	16	
		3	3				0	16	
	64QAM	6	0				0	16	
		1	0				0	16	
		1	2				0	16	
		1	5				0	16	
BW	Modulation	Channel	Frequency (MHz)	131979	132322	132665	3GPP MPR (dB)	Max. Time-up (dBm)	
		Frequency (MHz)	1716.7	1745	1779.3	0	16		
	QPSK	1	0				0	16	
		1	2				0	16	
		1	5				0	16	
		3	0				0	16	
		3	1				0	16	
		3	3				0	16	
		6	0				0	16	
		1	0				0	16	
		1	2				0	16	
		1	5				0	16	
	16QAM	3	0				0	16	
		3	1				0	16	
		3	3				0	16	
		6	0				0	16	
		1	0				0	16	
		1	2				0	16	
		1	5				0	16	
		3	0				0	16	
		3	1				0	16	
		3	3				0	16	
		6	0				0	16	
		1	0				0	16	
1		2				0	16		
1		5				0	16		
64QAM	3	0				0	16		
	3	1				0	16		
	3	3				0	16		
	6	0				0	16		
	1	0				0	16		
	1	2				0	16		
	1	5				0	16		
	3	0				0	16		
	3	1				0	16		
	3	3				0	16		

Default Power

2.4GHz WLAN					
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11b 1Mbps	1	2412	18.86	20.50
		6	2437	18.07	20.00
		11	2462	18.53	20.50
	802.11g 6Mbps	1	2412	17.31	19.00
		6	2437	17.28	19.00
		11	2462	15.74	17.00
	802.11n-HT20 MCS0	1	2412	16.79	18.00
		6	2437	16.91	18.50
		11	2462	14.70	15.50

5GHz WLAN					
5.0GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	36	5180	16.19	18.00
		40	5200	16.31	18.00
		44	5220	16.23	18.00
		48	5240	16.28	18.00
	802.11n-HT20 MCS0	36	5180	14.86	16.50
		40	5200	14.89	16.50
		44	5220	14.95	16.50
		48	5240	15.02	17.00
	802.11n-HT40 MCS0	38	5190	12.24	14.00
		46	5230	13.45	15.00
	802.11ac-VHT20 MCS0	36	5180	14.70	16.50
		40	5200	14.42	16.00
		44	5220	14.45	16.00
		48	5240	14.37	16.00
	802.11ac-VHT40 MCS0	38	5190	13.30	15.00
		46	5230	13.40	15.00
	802.11ac-VHT80 MCS0	42	5210	12.67	14.50

5GHz WLAN					
5.0GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	52	5260	16.85	18.50
		56	5280	16.53	18.50
		60	5300	17.89	18.50
		64	5320	13.70	15.50
	802.11n-HT20 MCS0	52	5260	15.67	17.50
		56	5280	15.71	17.50
		60	5300	15.86	17.50
		64	5320	13.50	15.50
	802.11n-HT40 MCS0	54	5270	14.20	16.00
		62	5310	12.45	14.00
	802.11ac-VHT20 MCS0	52	5260	15.18	17.00
		56	5280	15.23	17.00
		60	5300	15.39	17.00
		64	5320	15.43	17.00
	802.11ac-VHT40 MCS0	54	5270	14.19	16.00
		62	5310	14.20	16.00
	802.11ac-VHT80 MCS0	58	5290	12.75	14.50

5GHz WLAN					
5.0GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	100	5500	17.41	18.50
		116	5580	17.31	18.50
		124	5620	17.28	18.50
		132	5660	17.32	18.50
		140	5700	11.62	13.50
		144	5720	17.31	18.50
	802.11n-HT20 MCS0	100	5500	16.59	17.50
		116	5580	16.23	17.50
		124	5620	16.39	17.50
		132	5660	16.21	17.50
		140	5700	10.71	12.50
		144	5720	16.05	17.50
	802.11n-HT40 MCS0	102	5510	15.31	16.50
		110	5550	15.10	16.50
		126	5630	14.76	16.50
		134	5670	14.66	16.50
		142	5710	14.66	16.50
		100	5500	16.05	17.50
	802.11ac-VHT20 MCS0	116	5580	15.52	17.50
		124	5620	15.67	17.50
		132	5660	15.51	17.50
		140	5700	15.58	17.50
		144	5720	15.57	17.50
		102	5510	15.13	16.50
	802.11ac-VHT40 MCS0	110	5550	15.08	16.50
		126	5630	14.67	16.50
		134	5670	14.63	16.50
		142	5710	14.59	16.50
	802.11ac-VHT80 MCS0	106	5530	13.68	15.50
		122	5610	13.28	15.00
		138	5690	13.16	15.00

5GHz WLAN					
5.0GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	149	5745	17.23	18.50
		157	5785	16.88	18.50
		165	5825	16.79	18.50
	802.11n-HT20 MCS0	149	5745	15.97	17.50
		157	5785	15.67	17.50
		165	5825	15.70	17.50
	802.11n-HT40 MCS0	151	5755	14.44	16.00
		159	5795	13.98	15.50
		149	5745	15.33	17.00
	802.11ac-VHT20 MCS0	157	5765	15.32	17.00
		165	5825	15.19	17.00
		151	5755	14.42	15.00
	802.11ac-VHT40 MCS0	159	5795	13.94	15.50
		155	5775	13.02	15.00

BT					
BT	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
BLE	1M	0	2402	5.23	7.00
		19	2440	5.90	7.00
		39	2480	5.11	7.00
		0	2454	6.04	7.00
	2M	19	2440	6.42	7.00
		38	2478	5.98	7.00
		0	2402	5.23	7.00
		19	2440	5.86	7.00
	S2	39	2480	5.08	7.00
		0	2402	5.27	7.00
		19	2440	5.89	7.00
		39	2480	5.10	7.00
BREDR	GFSK	0	2402	10.26	12.00
		39	2441	11.79	12.00
		78	2480	10.29	12.00
		0	2402	9.18	11.00
	DQPSK	39	2441	10.03	11.50
		78	2480	9.82	11.50
		0	2402	9.26	11.00
		39	2441	10.03	11.50
	BDPSK	78	2480	9.45	11.00

Receiver on

2.4GHz WLAN					
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11b 1Mbps	1	2412	14.62	16.00
		6	2437	14.56	16.00
		11	2462	14.51	16.00
	802.11g 6Mbps	1	2412		16.00
		6	2437		16.00
		11	2462		16.00
	802.11n-HT20 MCS0	1	2412		16.00
		6	2437		16.00
		11	2462		15.50

5GHz WLAN					
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	36	5180	11.55	13.00
		40	5200	11.56	13.00
		44	5220	11.53	13.00
		48	5240	11.58	13.00
	802.11n-HT20 MCS0	36	5180		13.00
		40	5200		13.00
		44	5220		13.00
		48	5240		13.00
	802.11n-HT40 MCS0	38	5190		13.00
		46	5230		13.00
		36	5180		13.00
		46	5230		13.00
	802.11ac-VHT20 MCS0	46	5230		13.00
		44	5220		13.00
		48	5240		13.00
		48	5240		13.00
	802.11ac-VHT40 MCS0	38	5190		13.00
		46	5230		13.00
		42	5210		13.00

5GHz WLAN					
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	52	5260	11.85	13.00
		56	5280	11.92	13.00
		60	5300	11.88	13.00
		64	5320	11.83	13.00
	802.11n-HT20 MCS0	52	5260		13.00
		56	5280		13.00
		60	5300		13.00
		64	5320		13.00
	802.11n-HT40 MCS0	54	5270		13.00
		62	5310		13.00
		52	5260		13.00
		56	5280		13.00
	802.11ac-VHT20 MCS0	60	5300		13.00
		64	5320		13.00
		54	5270		13.00
		62	5310		13.00
	802.11ac-VHT40 MCS0	54	5270		13.00
		62	5310		13.00
		58	5290		13.00

5GHz WLAN					
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	100	5500	12.16	13.50
		116	5580	12.02	13.50
		124	5620	12.11	13.50
		132	5660	12.04	13.50
		140	5700	11.62	13.50
	802.11n-HT20 MCS0	144	5720	12.09	13.50
		100	5500		13.50
		116	5580		13.50
		124	5620		13.50
		132	5660		13.50
	802.11n-HT40 MCS0	140	5700		13.50
		144	5720		13.50
		102	5510		13.50
		110	5550		13.50
		126	5630		13.50
	802.11ac-VHT20 MCS0	134	5670		13.50
		142	5710		13.50
		100	5500		13.50
		116	5580		13.50
		124	5620		13.50
	802.11ac-VHT40 MCS0	132	5660		13.50
		140	5700		13.50
		144	5720		13.50
		102	5510		13.50
		110	5550		13.50
	802.11ac-VHT80 MCS0	126	5630		13.50
		134	5670		13.50
		142	5710		13.50
		106	5530		13.50
		122	5610		13.50

5GHz WLAN					
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	149	5745	12.83	13.50
		157	5785	11.85	13.50
		165	5825	11.73	13.50
	802.11n-HT20 MCS0	149	5745		13.50
		157	5785		13.50
		165	5825		13.50
	802.11n-HT40 MCS0	151	5755		13.50
		159	5795		13.50
		149	5745		13.50
	802.11ac-VHT20 MCS0	157	5785		13.50
		165	5825		13.50
		151	5755		13.50

BT					
BT	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
BLE	1M	0	2402		7.00
		19	2440		7.00
		39	2480		7.00
		0	2404		7.00
		19	2440		7.00
		38	2478		7.00
	S2	0	2402		7.00
		19	2440		7.00
		39	2480		7.00
		0	2402		7.00
		19	2440		7.00
		39	2480		7.00
BREDR	GFSK	0	2402	10.26	12.00
		39	2441	11.79	12.00
		78	2480	10.29	12.00
		0	2402		11.00
		39	2441		11.50
		78	2480		11.50
	DQPSK	0	2402		11.00
		39	2441		11.50
		78	2480		11.50
		0	2402		11.00
		39	2441		11.50
		78	2480		11.00

Full Power

2.4GHz WLAN					
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11b 1Mbps	1	2412	18.86	20.50
		6	2437	18.07	20.00
		11	2462	18.53	20.50
	802.11g 6Mbps	1	2412		19.00
		6	2437		19.00
		11	2462		17.00
	802.11n-HT20 MCS0	1	2412		18.00
		6	2437		18.50
		11	2462		15.50

5GHz WLAN					
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	36	5180	14.56	16.50
		40	5200	14.54	16.50
		44	5220	14.59	16.50
		48	5240	14.61	16.50
	802.11n-HT20 MCS0	36	5180		16.50
		40	5200		16.50
		44	5220		16.50
		48	5240		16.50
	802.11n-HT40 MCS0	38	5190		14.00
		46	5230		15.00
		36	5180		16.50
		46	5230		16.00
	802.11ac-VHT20 MCS0	46	5230		16.00
		44	5220		16.00
		48	5240		16.00
		48	5240		16.00
	802.11ac-VHT40 MCS0	38	5190		15.00
		46	5230		15.00
		42	5210		14.50

5GHz WLAN					
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	52	5260	14.76	16.50
		56	5280	14.89	16.50
		60	5300	14.91	16.50
		64	5320	13.70	15.50
	802.11n-HT20 MCS0	52	5260		16.50
		56	5280		16.50
		60	5300		16.50
		64	5320		15.50
	802.11n-HT40 MCS0	54	5270		16.00
		62	5310		14.00
		52	5260		16.50
		56	5280		16.50
	802.11ac-VHT20 MCS0	60	5300		16.50
		64	5320		16.50
		54	5270		16.00
		62	5310		16.00
	802.11ac-VHT40 MCS0	54	5270		16.00
		62	5310		16.00
		58	5290		14.50

5GHz WLAN					
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	100	5500	15.21	16.50
		116	5580	15.18	16.50
		124	5620	15.06	16.50
		132	5660	15.13	16.50
		140	5700	11.62	13.50
	802.11n-HT20 MCS0	144	5720	15.01	16.50
		100	5500		16.50
		116	5580		16.50
		124	5620		16.50
		132	5660		16.50
	802.11n-HT40 MCS0	140	5700		16.50
		144	5720		16.50
		102	5510		16.50
		110	5550		16.50
		126	5630		16.50
	802.11ac-VHT20 MCS0	134	5670		16.50
		142	5710		16.50
		100	5500		16.50
		116	5580		16.50
		124	5620		16.50
	802.11ac-VHT40 MCS0	132	5660		16.50
		140	5700		16.50
		144	5720		16.50
		102	5510		16.50
		110	5550		16.50
	802.11ac-VHT80 MCS0	126	5630		16.50
		134	5670		16.50
		142	5710		16.50
		106	5530		15.50
		122	5610		15.00

5GHz WLAN					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tone-Up Limit
5.8GHz WLAN	802.11a OMPPs	149	5745	16.98	16.50
		157	5755	14.48	16.50
		165	5825	14.78	16.50
	802.11n HT20 MCS0	149	5745		16.50
		157	5755		16.50
		165	5825		16.50
	802.11n HT40 MCS0	151	5755		16.50
		159	5795		15.50
		157	5745		16.50
	802.11n HT20 MCS0	157	5755		16.50
		165	5825		16.50
		151	5735		15.00
802.11ac VHT40 MCS0	159	5795		15.50	
	155	5775		15.00	



BUREAU
VERITAS

FCC SAR Test Report



Certificate #6613.01

Appendix E. Simultaneous Multi-band Transmission Evaluation

<Head Sum SAR(1g)>

WWAN Band	Test Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4G	WLAN 5G	BT			
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
GSM850	Right Cheek	0.711	0.228	0.283	0.068	0.94	0.99	0.78
	Right Tilted	0.570	0.240	0.335	0.072	0.81	0.91	0.64
	Left Cheek	0.621	0.642	0.540	0.168	1.26	1.16	0.79
	Left Tilted	0.555	0.480	0.655	0.118	1.04	1.21	0.67
GSM1900	Right Cheek	0.709	0.228	0.283	0.068	0.94	0.99	0.78
	Right Tilted	1.046	0.240	0.335	0.072	1.29	1.38	1.12
	Left Cheek	0.707	0.642	0.540	0.168	1.35	1.25	0.88
	Left Tilted	0.936	0.480	0.655	0.118	1.42	1.59	1.05
WCDMA II	Right Cheek	0.767	0.228	0.283	0.068	1.00	1.05	0.84
	Right Tilted	1.063	0.240	0.335	0.072	1.30	1.40	1.14
	Left Cheek	0.705	0.642	0.540	0.168	1.35	1.25	0.87
	Left Tilted	0.928	0.480	0.655	0.118	1.41	1.58	1.05
WCDMA IV	Right Cheek	0.691	0.228	0.283	0.068	0.92	0.97	0.76
	Right Tilted	1.045	0.240	0.335	0.072	1.29	1.38	1.12
	Left Cheek	0.517	0.642	0.540	0.168	1.16	1.06	0.69
	Left Tilted	0.668	0.480	0.655	0.118	1.15	1.32	0.79
WCDMA V	Right Cheek	1.084	0.228	0.283	0.068	1.31	1.37	1.15
	Right Tilted	0.758	0.240	0.335	0.072	1.00	1.09	0.83
	Left Cheek	0.885	0.642	0.540	0.168	1.53	1.43	1.05
	Left Tilted	0.734	0.480	0.655	0.118	1.21	1.39	0.85
LTE B2	Right Cheek	0.555	0.228	0.283	0.068	0.78	0.84	0.62
	Right Tilted	0.816	0.240	0.335	0.072	1.06	1.15	0.89
	Left Cheek	0.537	0.642	0.540	0.168	1.18	1.08	0.71
	Left Tilted	0.702	0.480	0.655	0.118	1.18	1.36	0.82
LTE B7	Right Cheek	0.702	0.228	0.283	0.068	0.93	0.99	0.77
	Right Tilted	0.871	0.240	0.335	0.072	1.11	1.21	0.94
	Left Cheek	0.569	0.642	0.540	0.168	1.21	1.11	0.74
	Left Tilted	0.717	0.480	0.655	0.118	1.20	1.37	0.84
LTE B13	Right Cheek	0.993	0.228	0.283	0.068	1.22	1.28	1.06
	Right Tilted	0.681	0.240	0.335	0.072	0.92	1.02	0.75
	Left Cheek	0.706	0.642	0.540	0.168	1.35	1.25	0.87
	Left Tilted	0.634	0.480	0.655	0.118	1.11	1.29	0.75
LTE B26/5	Right Cheek	0.909	0.228	0.283	0.068	1.14	1.19	0.98
	Right Tilted	0.621	0.240	0.335	0.072	0.86	0.96	0.69
	Left Cheek	0.685	0.642	0.540	0.168	1.33	1.23	0.85
	Left Tilted	0.566	0.480	0.655	0.118	1.05	1.22	0.68
LTE B41/38	Right Cheek	0.533	0.228	0.283	0.068	0.76	0.82	0.60
	Right Tilted	0.898	0.240	0.335	0.072	1.14	1.23	0.97
	Left Cheek	0.516	0.642	0.540	0.168	1.16	1.06	0.68
	Left Tilted	0.656	0.480	0.655	0.118	1.14	1.31	0.77
LTE B66/4	Right Cheek	0.702	0.228	0.283	0.068	0.93	0.99	0.77
	Right Tilted	1.058	0.240	0.335	0.072	1.30	1.39	1.13
	Left Cheek	0.532	0.642	0.540	0.168	1.17	1.07	0.70
	Left Tilted	0.682	0.480	0.655	0.118	1.16	1.34	0.80

<Body worn Sum SAR(1g)>

WWAN Band	Test Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4G	WLAN 5G	BT			
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
GSM850	Front Face at 15mm	0.166	0.168	0.173		0.33	0.34	0.17
	Rear Face at 15mm	0.245	0.261	0.420	0.029	0.51	0.67	0.27
GSM1900	Front Face at 15mm	0.132	0.168	0.173		0.30	0.31	0.13
	Rear Face at 15mm	0.285	0.261	0.420	0.029	0.55	0.71	0.31
WCDMA II	Front Face at 15mm	0.433	0.168	0.173		0.60	0.61	0.43
	Rear Face at 15mm	0.617	0.261	0.420	0.029	0.88	1.04	0.65
WCDMA IV	Front Face at 15mm	0.530	0.168	0.173		0.70	0.70	0.53
	Rear Face at 15mm	0.991	0.261	0.420	0.029	1.25	1.41	1.02
WCDMA V	Front Face at 15mm	0.186	0.168	0.173		0.35	0.36	0.19
	Rear Face at 15mm	0.252	0.261	0.420	0.029	0.51	0.67	0.28
LTE B2	Front Face at 15mm	0.347	0.168	0.173		0.52	0.52	0.35
	Rear Face at 15mm	0.708	0.261	0.420	0.029	0.97	1.13	0.74
LTE B7	Front Face at 15mm	0.377	0.168	0.173		0.55	0.55	0.38
	Rear Face at 15mm	0.803	0.261	0.420	0.029	1.06	1.22	0.83
LTE B13	Front Face at 15mm	0.162	0.168	0.173		0.33	0.34	0.16
	Rear Face at 15mm	0.253	0.261	0.420	0.029	0.51	0.67	0.28
LTE B26/5	Front Face at 15mm	0.156	0.168	0.173		0.32	0.33	0.16
	Rear Face at 15mm	0.258	0.261	0.420	0.029	0.52	0.68	0.29
LTE B41/38	Front Face at 15mm	0.313	0.168	0.173		0.48	0.49	0.31
	Rear Face at 15mm	0.642	0.261	0.420	0.029	0.90	1.06	0.67
LTE B66/4	Front Face at 15mm	0.369	0.168	0.173		0.54	0.54	0.37
	Rear Face at 15mm	0.945	0.261	0.420	0.029	1.21	1.37	0.97

<Hotspot Sum SAR(1g)>

WWAN Band	Test Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4G	WLAN 5G	BT			
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
GSM850	Front Face at 1cm	0.298	0.292	0.300		0.59	0.60	0.30
	Rear Face at 1cm	0.487	0.560	0.619	0.051	1.05	1.11	0.54
	Left Side at 1cm	0.128	0.063			0.19	0.13	0.13
	Right Side at 1cm	0.194	0.264	0.355		0.46	0.55	0.19
	Top Side at 1cm	0.204	0.273	0.599	0.042	0.48	0.80	0.25
	Bottom Side at 1cm	0.245				0.25	0.25	0.25
GSM1900	Front Face at 1cm	0.213	0.292	0.300		0.51	0.51	0.21
	Rear Face at 1cm	0.315	0.560	0.619	0.051	0.88	0.93	0.37
	Left Side at 1cm	0.108	0.063			0.17	0.11	0.11
	Right Side at 1cm		0.264	0.355		0.26	0.36	0.00
	Top Side at 1cm	0.524	0.273	0.599	0.042	0.80	1.12	0.57
	Bottom Side at 1cm	0.543				0.54	0.54	0.54
WCDMA II	Front Face at 1cm	0.241	0.292	0.300		0.53	0.54	0.24
	Rear Face at 1cm	0.459	0.560	0.619	0.051	1.02	1.08	0.51
	Left Side at 1cm	0.122	0.063			0.19	0.12	0.12
	Right Side at 1cm	0.073	0.264	0.355		0.34	0.43	0.07
	Top Side at 1cm	0.581	0.273	0.599	0.042	0.85	1.18	0.62
	Bottom Side at 1cm	0.702				0.70	0.70	0.70
WCDMA IV	Front Face at 1cm	0.200	0.292	0.300		0.49	0.50	0.20
	Rear Face at 1cm	0.435	0.560	0.619	0.051	1.00	1.05	0.49
	Left Side at 1cm	0.101	0.063			0.16	0.10	0.10
	Right Side at 1cm	0.048	0.264	0.355		0.31	0.40	0.05
	Top Side at 1cm	0.505	0.273	0.599	0.042	0.78	1.10	0.55
	Bottom Side at 1cm	0.755				0.76	0.76	0.76
WCDMA V	Front Face at 1cm	0.209	0.292	0.300		0.50	0.51	0.21
	Rear Face at 1cm	0.349	0.560	0.619	0.051	0.91	0.97	0.40
	Left Side at 1cm	0.135	0.063			0.20	0.14	0.14
	Right Side at 1cm	0.213	0.264	0.355		0.48	0.57	0.21
	Top Side at 1cm	0.182	0.273	0.599	0.042	0.46	0.78	0.22
	Bottom Side at 1cm	0.278				0.28	0.28	0.28
LTE B2	Front Face at 1cm	0.231	0.292	0.300		0.52	0.53	0.23
	Rear Face at 1cm	0.456	0.560	0.619	0.051	1.02	1.08	0.51
	Left Side at 1cm	0.118	0.063			0.18	0.12	0.12
	Right Side at 1cm	0.061	0.264	0.355		0.33	0.42	0.06
	Top Side at 1cm	0.634	0.273	0.599	0.042	0.91	1.23	0.68
	Bottom Side at 1cm	0.717				0.72	0.72	0.72
LTE B7	Front Face at 1cm	0.365	0.292	0.300		0.66	0.67	0.37
	Rear Face at 1cm	0.554	0.560	0.619	0.051	1.11	1.17	0.61
	Left Side at 1cm	0.060	0.063			0.12	0.06	0.06
	Right Side at 1cm	0.058	0.264	0.355		0.32	0.41	0.06
	Top Side at 1cm	0.616	0.273	0.599	0.042	0.89	1.22	0.66
	Bottom Side at 1cm	0.757				0.76	0.76	0.76
LTE B13	Front Face at 1cm	0.244	0.292	0.300		0.54	0.54	0.24
	Rear Face at 1cm	0.350	0.560	0.619	0.051	0.91	0.97	0.40
	Left Side at 1cm	0.162	0.063			0.23	0.16	0.16
	Right Side at 1cm	0.278	0.264	0.355		0.54	0.63	0.28
	Top Side at 1cm	0.144	0.273	0.599	0.042	0.42	0.74	0.19
	Bottom Side at 1cm	0.264				0.26	0.26	0.26
LTE B26/5	Front Face at 1cm	0.248	0.292	0.300		0.54	0.55	0.25
	Rear Face at 1cm	0.446	0.560	0.619	0.051	1.01	1.07	0.50
	Left Side at 1cm	0.118	0.063			0.18	0.12	0.12
	Right Side at 1cm	0.190	0.264	0.355		0.45	0.55	0.19
	Top Side at 1cm	0.156	0.273	0.599	0.042	0.43	0.76	0.20
	Bottom Side at 1cm	0.277				0.28	0.28	0.28
LTE B41/38	Front Face at 1cm	0.344	0.292	0.300		0.64	0.64	0.34
	Rear Face at 1cm	0.495	0.560	0.619	0.051	1.06	1.11	0.55
	Left Side at 1cm	0.056	0.063			0.12	0.06	0.06
	Right Side at 1cm	0.069	0.264	0.355		0.33	0.42	0.07
	Top Side at 1cm	0.596	0.273	0.599	0.042	0.87	1.20	0.64
	Bottom Side at 1cm	0.684				0.68	0.68	0.68
LTE B66/4	Front Face at 1cm	0.233	0.292	0.300		0.53	0.53	0.23
	Rear Face at 1cm	0.519	0.560	0.619	0.051	1.08	1.14	0.57
	Left Side at 1cm	0.083	0.063			0.15	0.08	0.08
	Right Side at 1cm	0.058	0.264	0.355		0.32	0.41	0.06
	Top Side at 1cm	0.568	0.273	0.599	0.042	0.84	1.17	0.61
	Bottom Side at 1cm	0.730				0.73	0.73	0.73

<Extremity Sum SAR(10g)>

WWAN Band	Test Position	1	3	1+3 Summed 10g SAR (W/kg)
		WWAN	WLAN 5G	
		10g SAR (W/kg)	10g SAR (W/kg)	
GSM1900	Front Face at 0cm	0.672	0.802	1.47
	Rear Face at 0cm	0.607	0.493	1.10
	Left Side at 0cm		0.046	0.05
	Right Side at 0cm		0.369	0.37
	Top Side at 0cm	2.594	0.952	3.55
	Bottom Side at 0cm			0.00
WCDMA II	Front Face at 0cm	0.732	0.802	1.53
	Rear Face at 0cm	1.628	0.493	2.12
	Left Side at 0cm		0.046	0.05
	Right Side at 0cm		0.369	0.37
	Top Side at 0cm	2.244	0.952	3.20
	Bottom Side at 0cm	2.208		2.21
WCDMA IV	Front Face at 0cm	1.140	0.802	1.94
	Rear Face at 0cm	2.134	0.493	2.63
	Left Side at 0cm		0.046	0.05
	Right Side at 0cm		0.369	0.37
	Top Side at 0cm	2.144	0.952	3.10
	Bottom Side at 0cm	2.054		2.05
LTE B2	Front Face at 0cm	0.786	0.802	1.59
	Rear Face at 0cm	1.651	0.493	2.14
	Left Side at 0cm		0.046	0.05
	Right Side at 0cm		0.369	0.37
	Top Side at 0cm	2.410	0.952	3.36
	Bottom Side at 0cm	2.257		2.26
LTE B7	Front Face at 0cm	1.552	0.802	2.35
	Rear Face at 0cm	2.077	0.493	2.57
	Left Side at 0cm		0.046	0.05
	Right Side at 0cm		0.369	0.37
	Top Side at 0cm	2.042	0.952	2.99
	Bottom Side at 0cm	1.956		1.96
LTE B41/38	Front Face at 0cm	1.471	0.802	2.27
	Rear Face at 0cm	2.073	0.493	2.57
	Left Side at 0cm		0.046	0.05
	Right Side at 0cm		0.369	0.37
	Top Side at 0cm	1.670	0.952	2.62
	Bottom Side at 0cm	1.662		1.66
LTE B66/4	Front Face at 0cm	1.335	0.802	2.14
	Rear Face at 0cm	2.338	0.493	2.83
	Left Side at 0cm		0.046	0.05
	Right Side at 0cm		0.369	0.37
	Top Side at 0cm	2.378	0.952	3.33
	Bottom Side at 0cm	2.452		2.45