In Collaboration with
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CALIBRATION LABORATORY
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Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn

lossary:

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

Calibration is Performed According to the Following Standards:

a) 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
b) IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
d) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

e) 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	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1950 MHz ± 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 ± 0.2) °C	38.9 ± 6 %	1.39 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm^3 (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	**40.3 W/kg ± 18.8 % (*k*=2)**
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	5.08 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**20.3 W/kg ± 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	50.5Ω+ 2.19jΩ
Return Loss	- 33.0dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.102 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: 10.28.2021

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 1950 MHz; Type: D1950V3; Serial: D1950V3 - SN: 1229

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

Medium parameters used: f = 1950 MHz; σ = 1.39 S/m; ε_r = 38.86; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(7.81, 7.81, 7.81) @ 1950 MHz; Calibrated: 2021-02-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2021-01-15
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.9 V/m; Power Drift = 0.06 dB

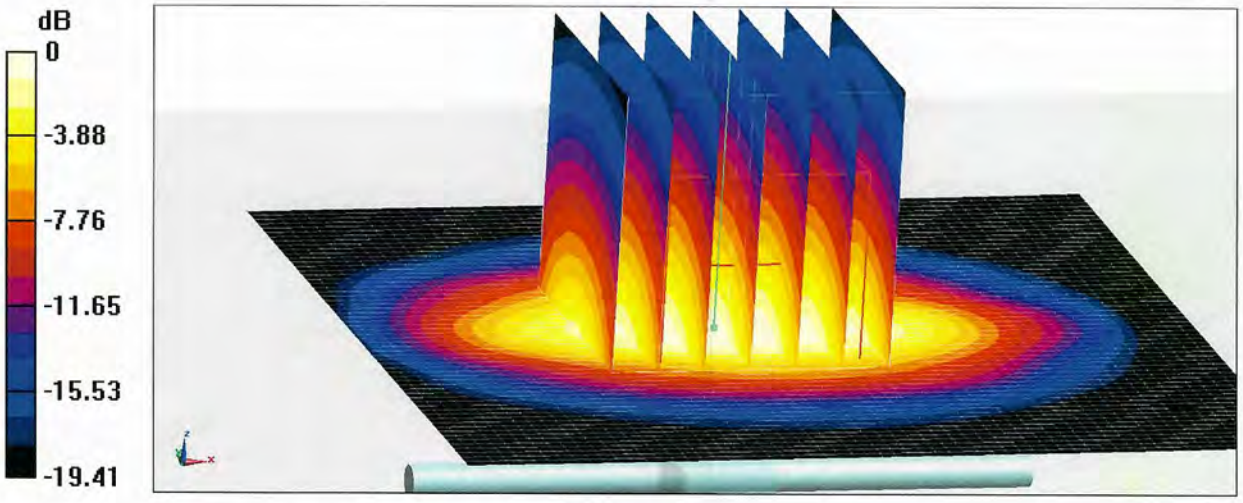
Peak SAR (extrapolated) = 20.0 W/kg

SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.08 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 16.3 W/kg



0 dB = 16.3 W/kg = 12.12 dBW/kg

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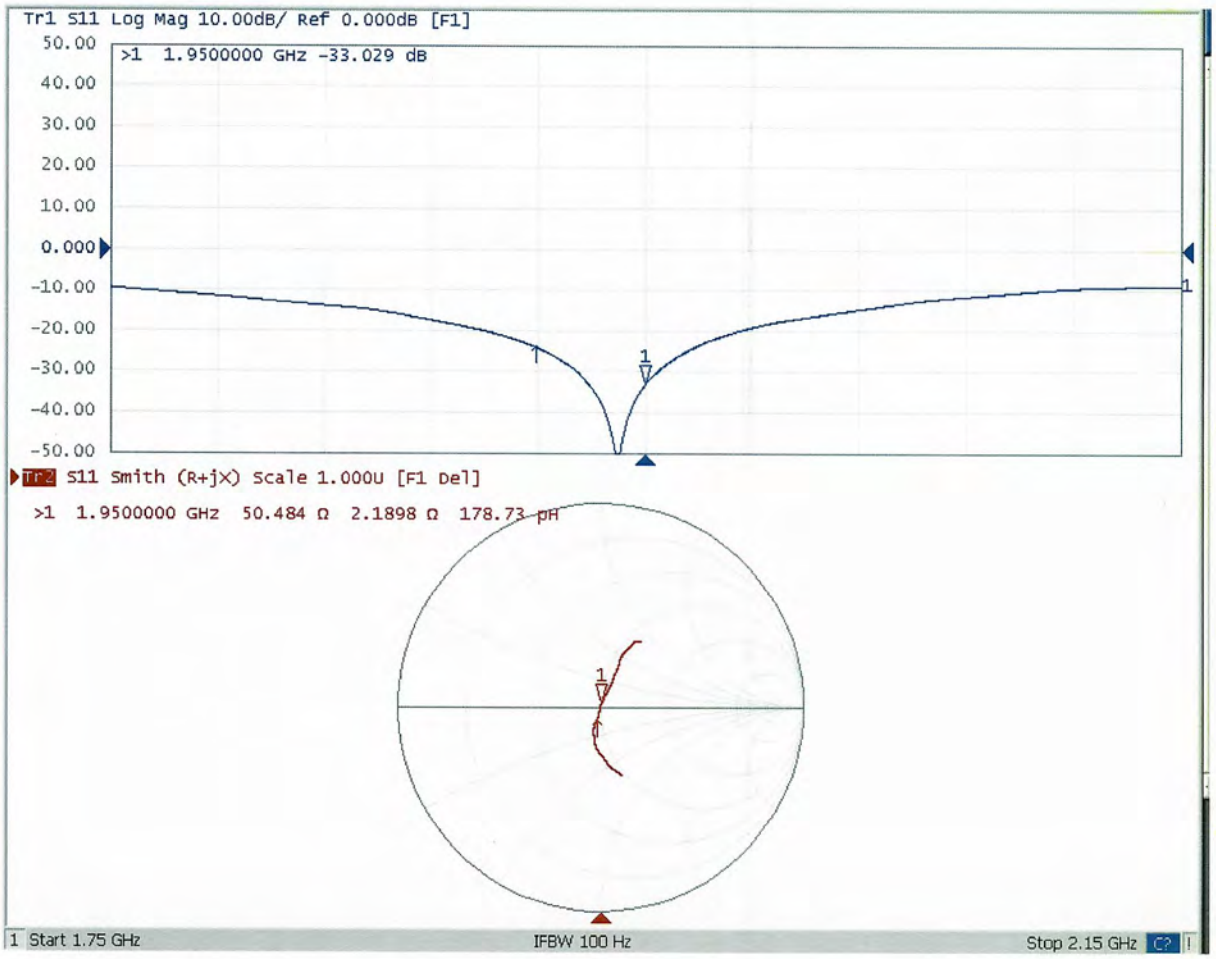
Impedance Measurement Plot for Head TSL



D1950V3 - SN: 1229 Extended Dipole Calibrations

Referring to KDB 865664 D01, if dipoles are verified in return loss (<-20dB, 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.

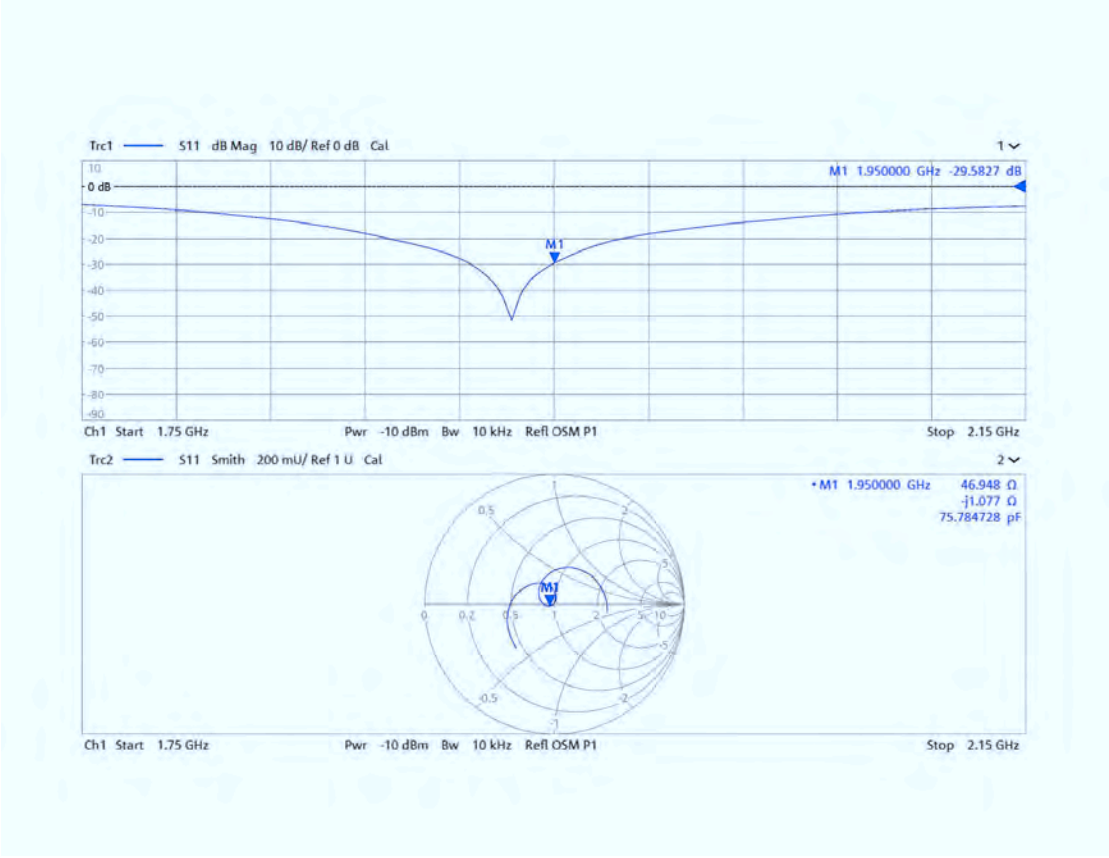
D1950V3 - SN: 1229						
1950MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.28.2021	-33		50.5		2.19	
10.27.2022	-29.58	-10.36	46.95	-3.55	-1.08	-3.27
10.26.2023	-28.50	-13.63	46.77	-3.73	3.33	1.14

<Justification of the extended calibration>

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

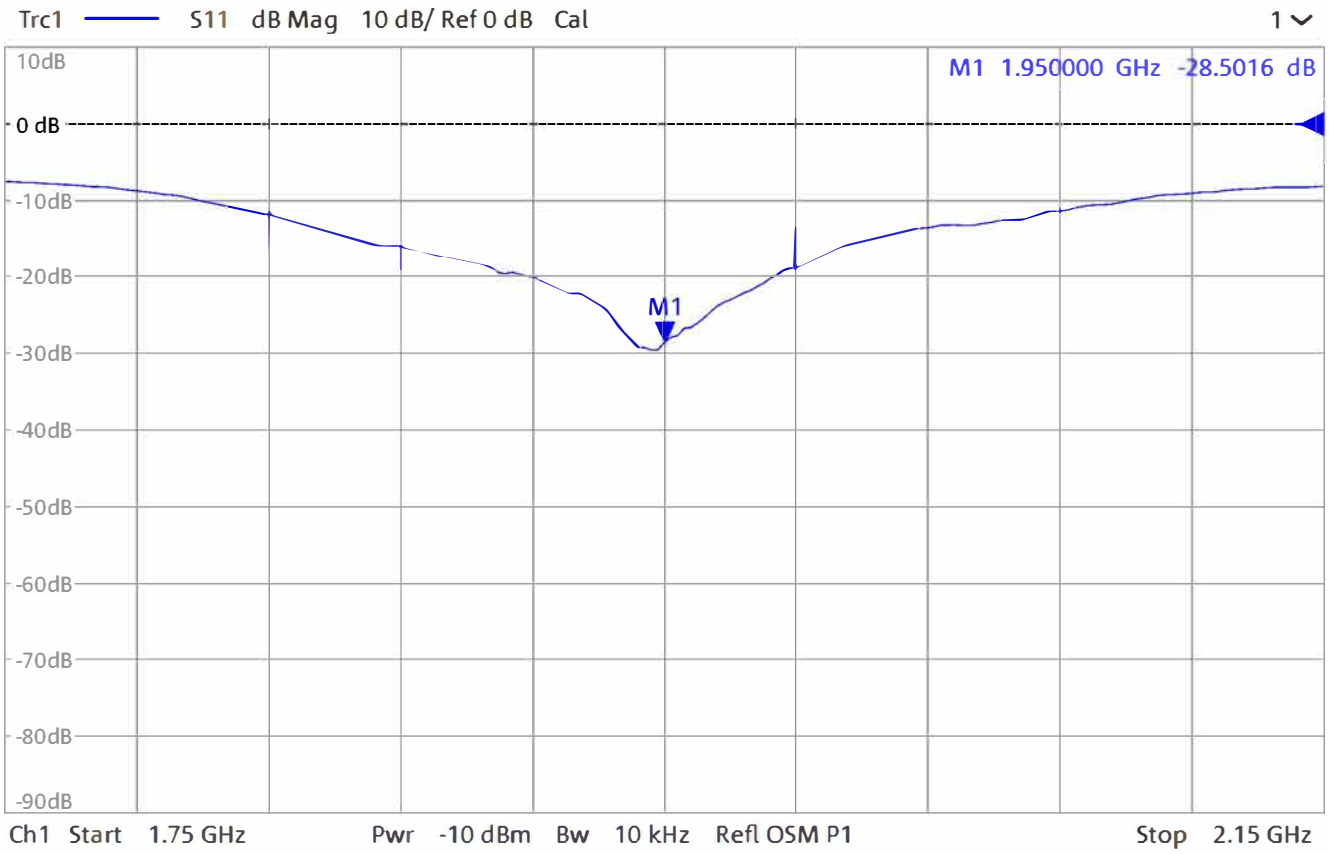
<Dipole Verification Data>

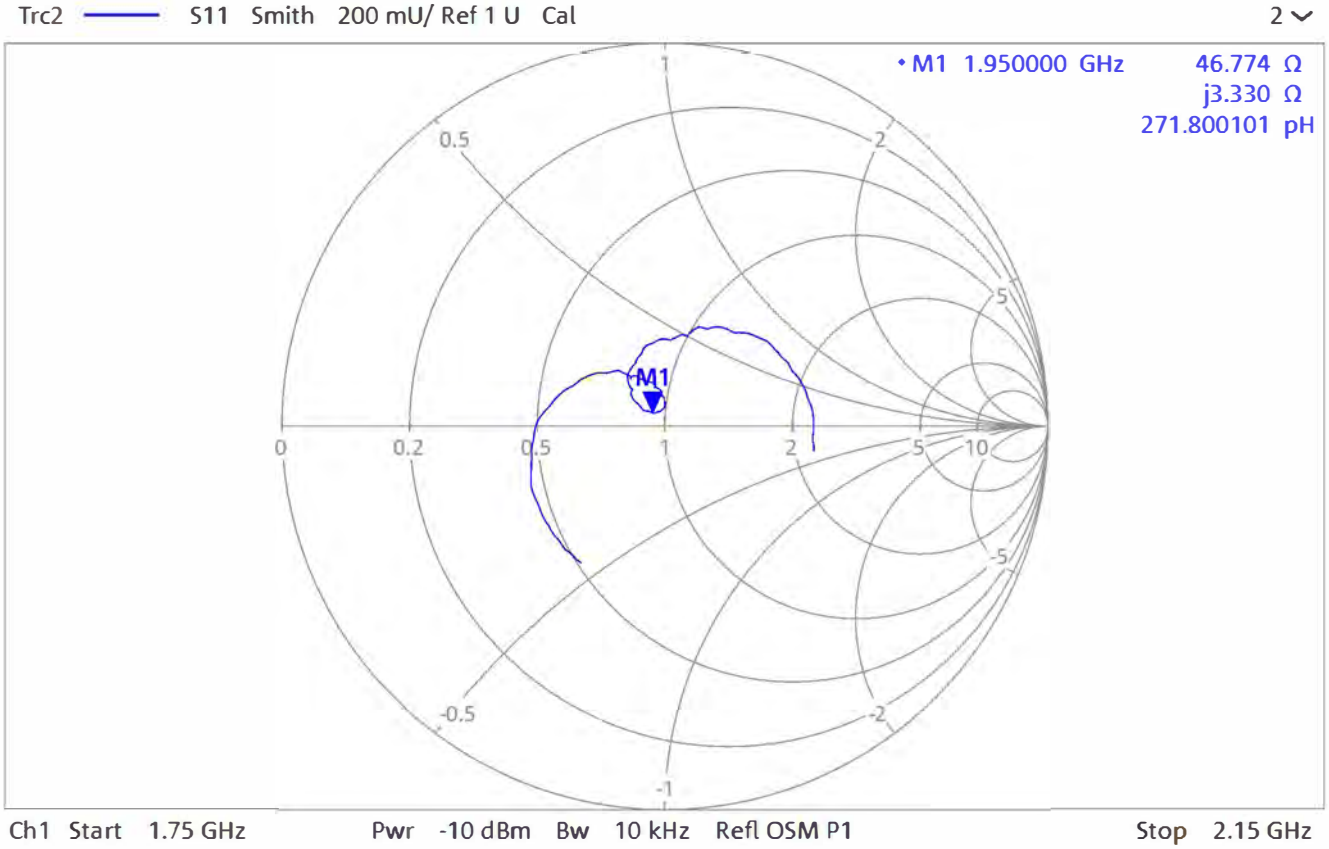
Head 1950MHz _2022.10.27



<Dipole Verification Data>

Head 1950MHz _2023.10.26





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CNAS L0570

Client 7layers Certificate No: Z21-60425

CALIBRATION CERTIFICATE

Object D2450V2 - SN: 1048

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

Calibration date: October 21, 2021

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	24-Sep-21 (CTTL, No.J21X08326)	Sep-22
Power sensor NRP8S	104291	24-Sep-21 (CTTL, No.J21X08326)	Sep-22
Reference Probe EX3DV4	SN 7517	03-Feb-21(CTTL-SPEAG,No.Z21-60001)	Feb-22
DAE4	SN 1556	15-Jan-21(SPEAG,No.DAE4-1556_Jan21)	Jan-22
Secondary Standards	**ID #**	**Cal Date (Calibrated by, Certificate No.)**	**Scheduled Calibration**
Signal Generator E4438C	MY49071430	01-Feb-21 (CTTL, No.J21X00593)	Jan-22
NetworkAnalyzer E5071C	MY46110673	14-Jan-21 (CTTL, No.J21X00232)	Jan-22

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

Issued: October 27, 2021

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Glossary:

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

Calibration is Performed According to the Following Standards:

a) 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

b) IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016

c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010

d) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

e) 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	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 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 ± 0.2) °C	39.5 ± 6 %	1.81 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.2 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**52.8 W/kg ± 18.8 % (*k*=2)**
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	6.05 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**24.2 W/kg ± 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+ 8.39jΩ
Return Loss	- 21.6dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.057 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: 10.21.2021

Test Laboratory: CTTL, Beijing, China

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

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; σ = 1.809 S/m; ε_r = 39.51; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(7.34, 7.34, 7.34) @ 2450 MHz; Calibrated: 2021-02-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2021-01-15
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Reference Value = 108.6 V/m; Power Drift = -0.02 dB

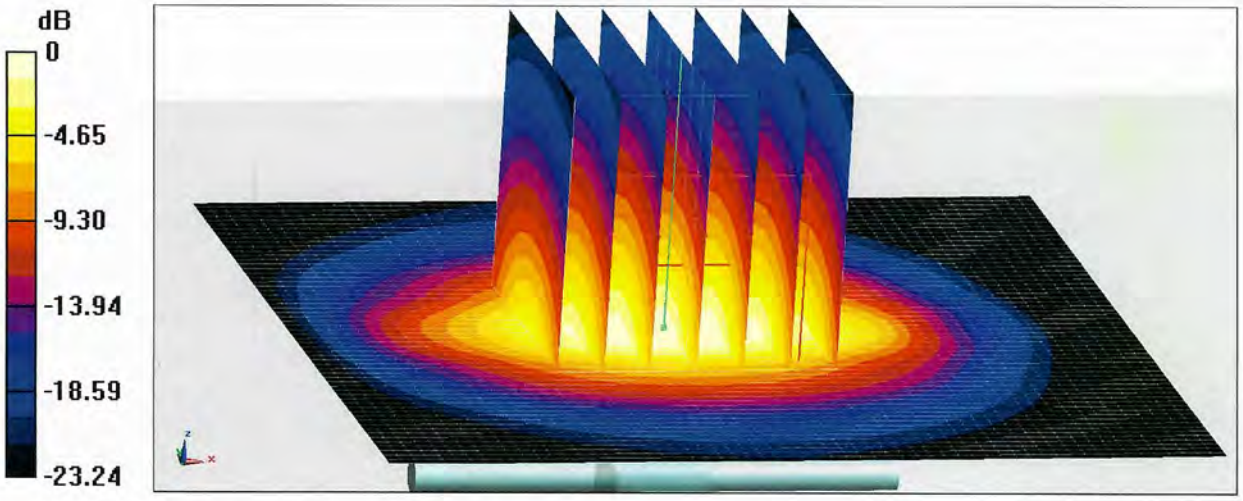
Peak SAR (extrapolated) = 28.0 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.05 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 47.1%

Maximum value of SAR (measured) = 22.5 W/kg



0 dB = 22.5 W/kg = 13.52 dBW/kg

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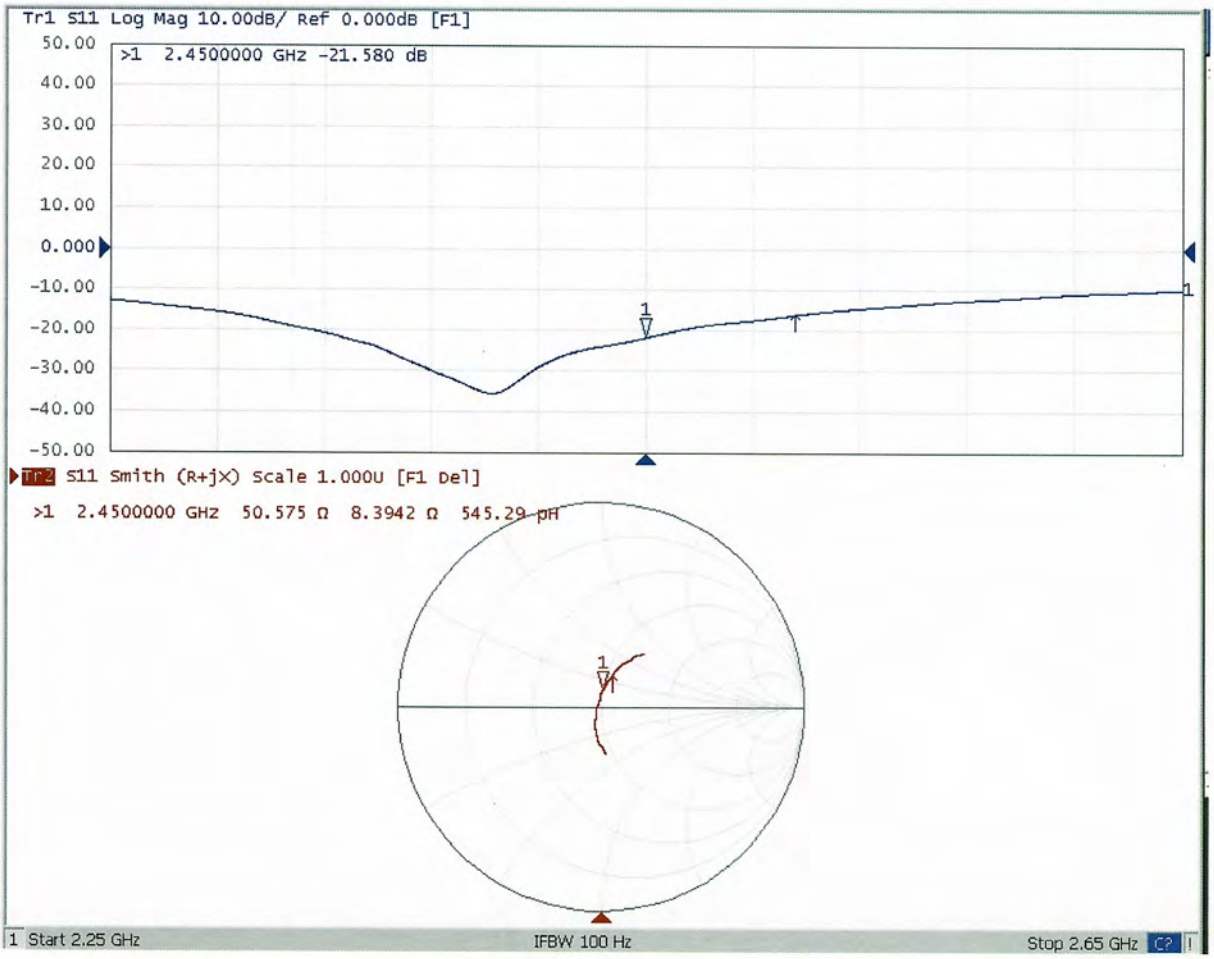
Impedance Measurement Plot for Head TSL



D2450V2 - SN: 1048 Extended Dipole Calibrations

Referring to KDB 865664 D01, if dipoles are verified in return loss (<-20dB, 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.

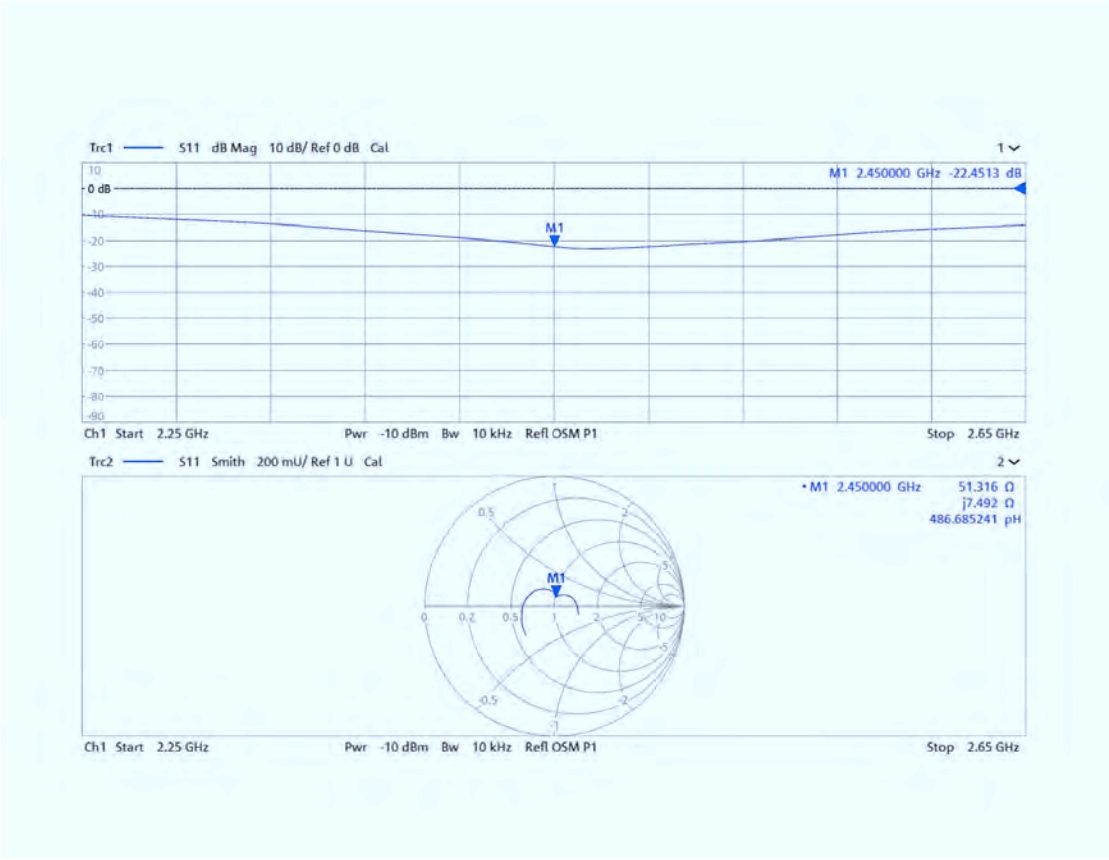
D2450V2 - SN: 1048						
2450MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.21.2021	-21.6		50.6		8.39	
10.20.2022	-22.45	3.94	51.32	0.72	7.49	-0.90
10.19.2023	-24.13	11.71	47.08	-3.52	5.46	-2.93

<Justification of the extended calibration>

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

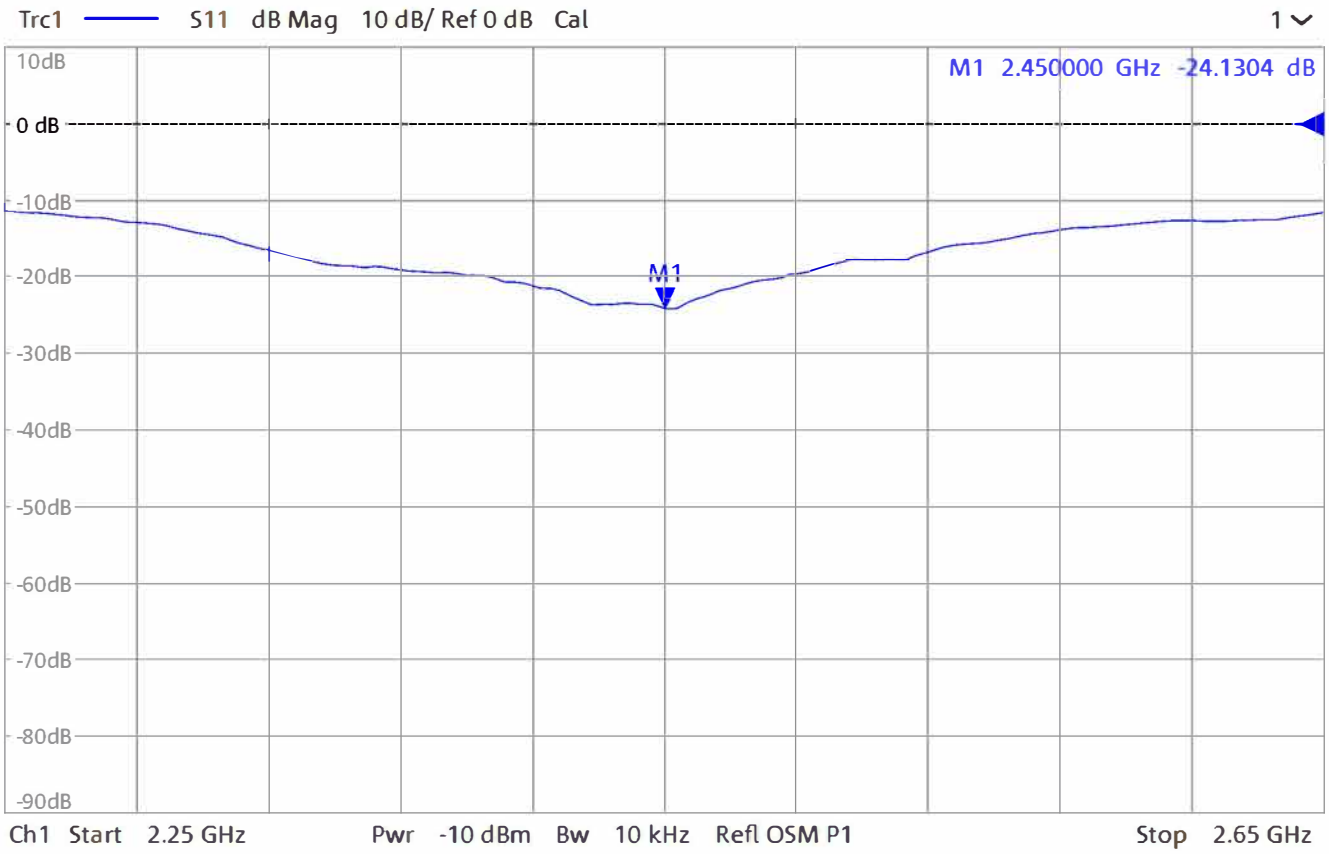
<Dipole Verification Data>

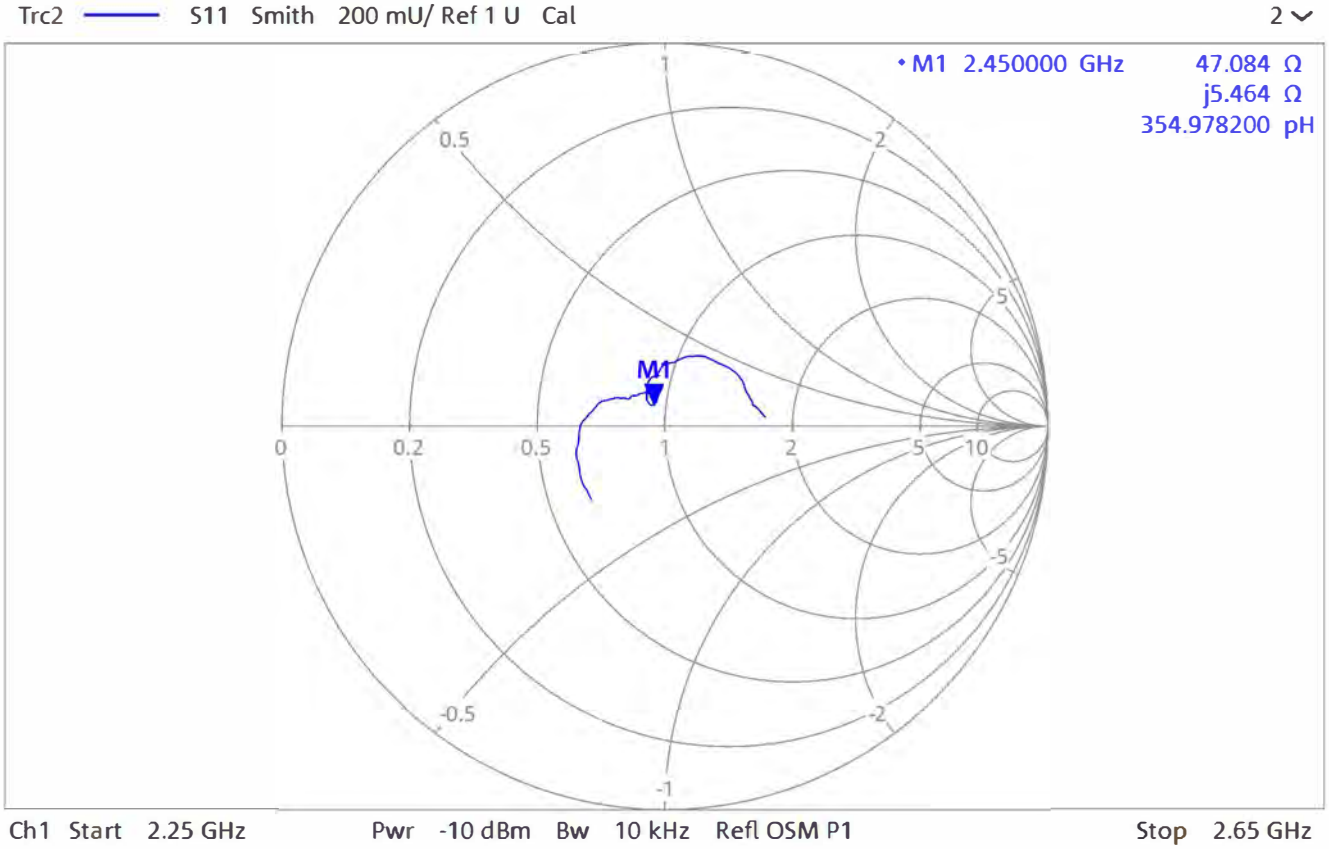
Head 2450MHz _2022.10.20



<Dipole Verification Data>

Head 2450MHz _2023.10.19





Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

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

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 ± 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 ± 0.2) °C	37.4 ± 6 %	1.95 mho/m ± 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 ± 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 ± 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 jΩ
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

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

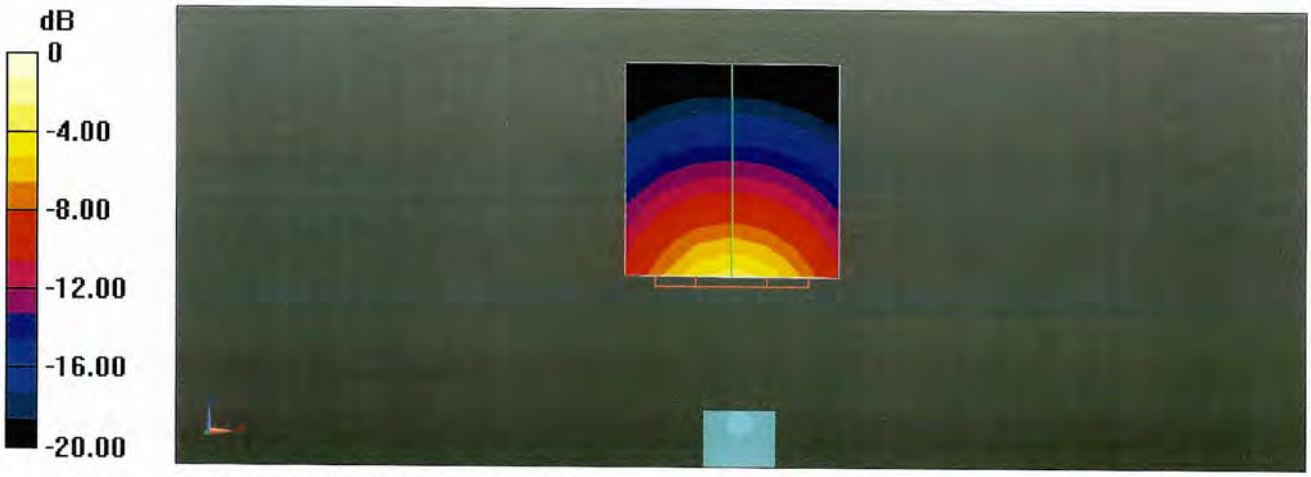
Communication System: UID 0 - CW; Frequency: 2550 MHz
Medium parameters used: f = 2550 MHz; σ = 1.95 S/m; ε_r = 37.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

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)

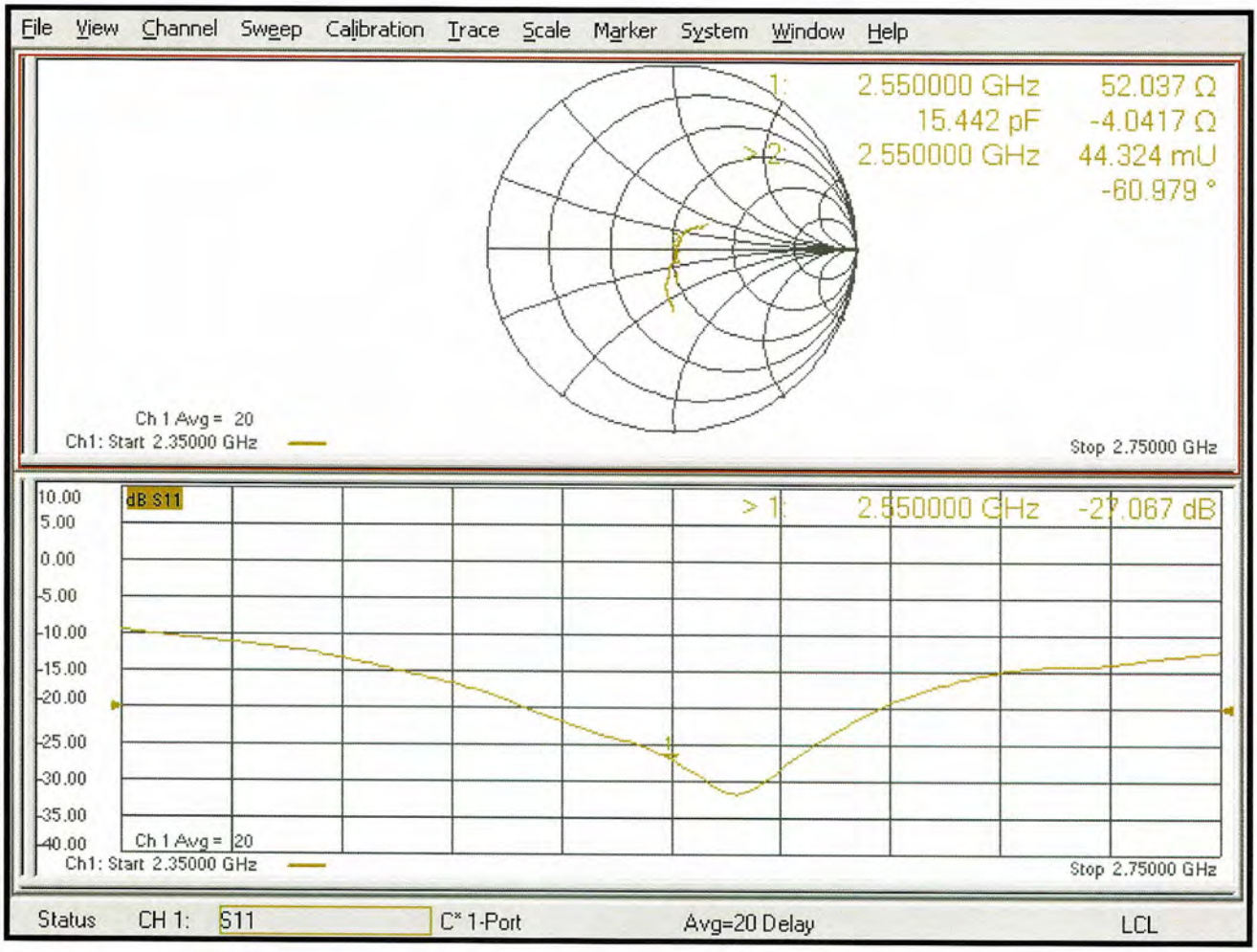
Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

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 (<-20dB, 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.

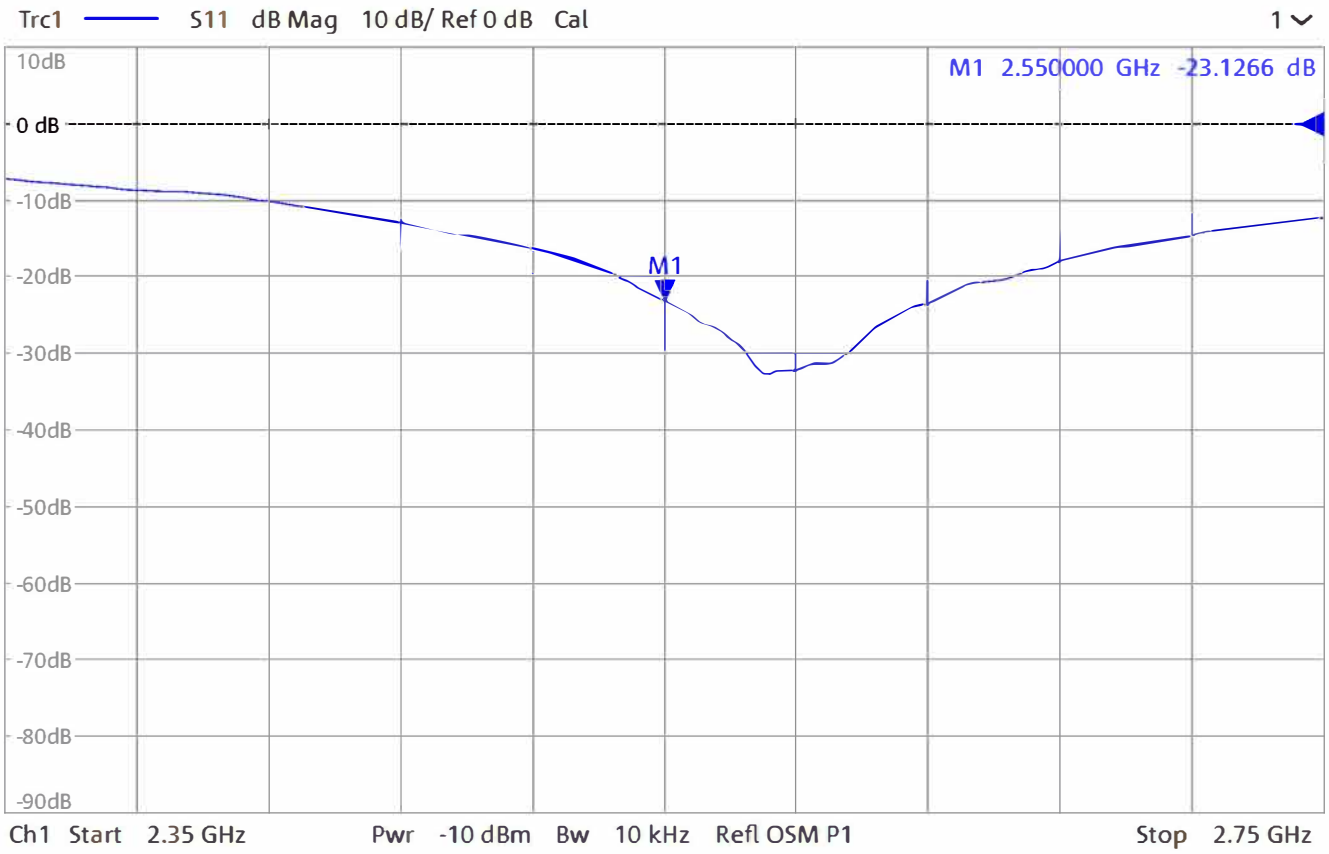
D2550V2 - SN: 1022						
2550MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
9.22.2022	-27.1		52		-4	
9.21.2023	-23.13	-14.66	54.77	2.77	-5.52	-1.52

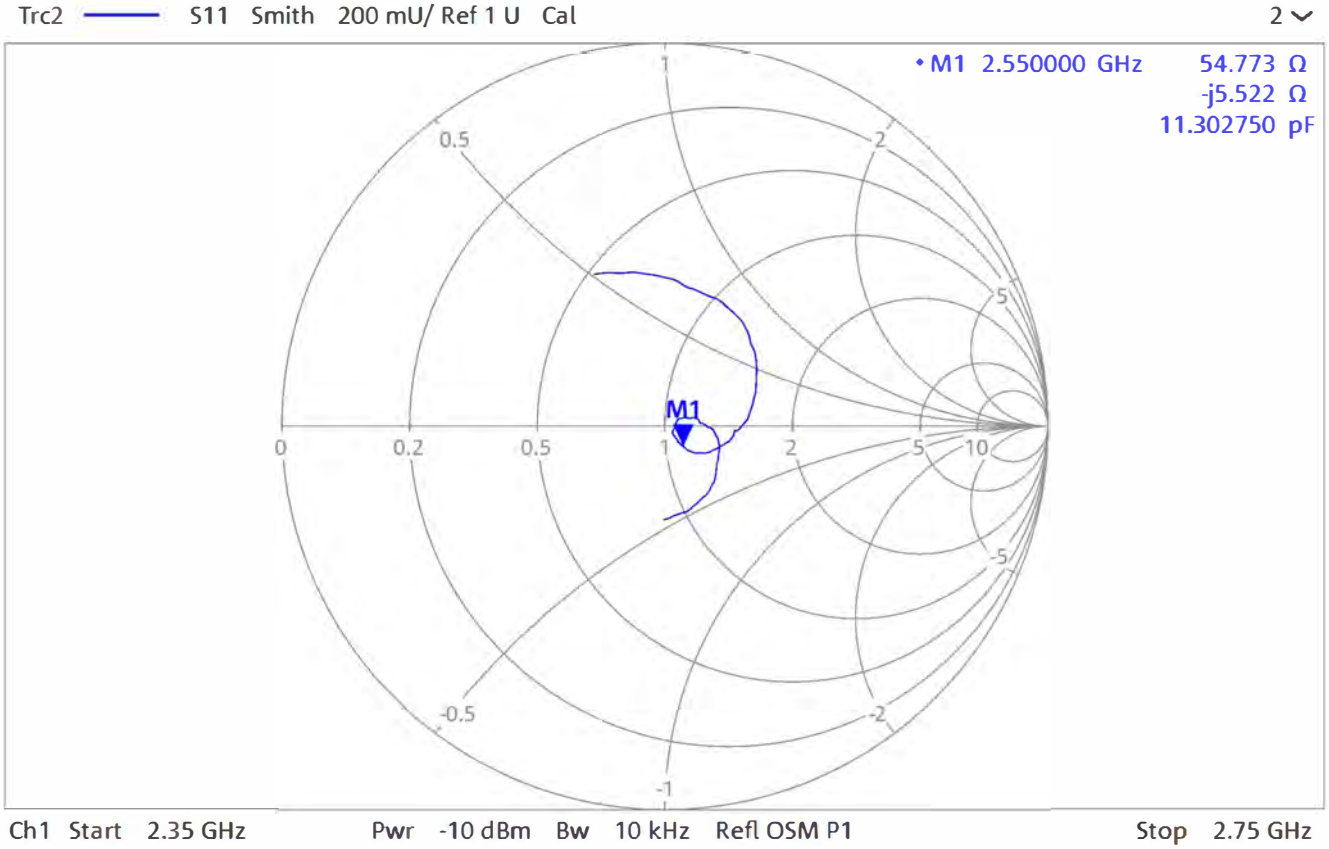
<Justification of the extended calibration>

The return loss is < -20dB, 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





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CNAS L0570

Client **7layers** **Certificate No: Z21-60431**

CALIBRATION CERTIFICATE

Object D5GHzV2 - SN: 1315

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

Calibration date: October 22, 2021

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	24-Sep-21 (CTTL, No.J21X08326)	Sep-22
Power sensor NRP8S	104291	24-Sep-21 (CTTL, No.J21X08326)	Sep-22
ReferenceProbe EX3DV4	SN 7517	03-Feb-21(CTTL-SPEAG,No.Z21-60001)	Feb-22
DAE4	SN 1556	15-Jan-21(SPEAG,No.DAE4-1556_Jan21)	Jan-22
Secondary Standards	**ID #**	**Cal Date (Calibrated by, Certificate No.)**	**Scheduled Calibration**
Signal Generator E4438C	MY49071430	01-Feb-21 (CTTL, No.J21X00593)	Jan-22
NetworkAnalyzerE5071C	MY46110673	14-Jan-21 (CTTL, No.J21X00232)	Jan-22

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

Issued: October 27, 2021

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Glossary:

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

Calibration is Performed According to the Following Standards:

a) 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
b) IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
d) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

e) 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	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz	

Head TSL parameters at 5250 MHz

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 ± 0.2) °C	36.6 ± 6 %	4.70 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.66 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**76.9 W/kg ± 24.4 % (*k*=2)**
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.20 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**22.1 W/kg ± 24.2 % (*k*=2)**

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Head TSL parameters at 5600 MHz

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	36.0 ± 6 %	5.08 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.17 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**81.9 W/kg ± 24.4 % (*k*=2)**
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.34 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**23.5 W/kg ± 24.2 % (*k*=2)**

Head TSL parameters at 5750 MHz

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	35.8 ± 6 %	5.25 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.59 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**76.1 W/kg ± 24.4 % (*k*=2)**
SAR averaged over 10 cm^3 (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	**21.7 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 5250 MHz

Impedance, transformed to feed point	50.5Ω - 3.27jΩ
Return Loss	- 29.7dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	54.2Ω + 0.81jΩ
Return Loss	- 27.8dB

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	49.4Ω + 1.99jΩ
Return Loss	- 33.6dB

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 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: 10.22.2021

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; σ = 4.704 S/m; ε_r = 36.62; ρ = 1000 kg/m^3, Medium parameters used: f = 5600 MHz; σ = 5.084 S/m; ε_r = 36; ρ = 1000 kg/m^3, Medium parameters used: f = 5750 MHz; σ = 5.248 S/m; ε_r = 35.78; ρ = 1000 kg/m^3,

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(5.42, 5.42, 5.42) @ 5250 MHz; ConvF(4.75, 4.75, 4.75) @ 5600 MHz; ConvF(4.82, 4.82, 4.82) @ 5750 MHz; Calibrated: 2021-02-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2021-01-15
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 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 = 70.32 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 31.0 W/kg
SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.2 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 65%
Maximum value of SAR (measured) = 18.2 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 = 71.09 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 34.9 W/kg
SAR(1 g) = 8.17 W/kg; SAR(10 g) = 2.34 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 63.3%
Maximum value of SAR (measured) = 19.9 W/kg

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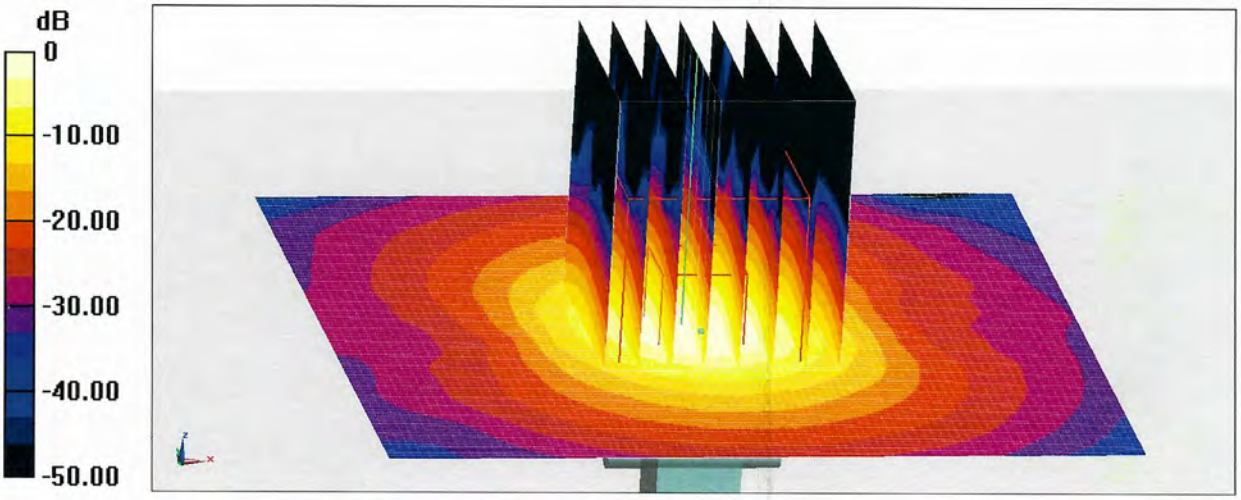
Dipole Calibration /Pin=100mW, d=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 67.72 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 33.5 W/kg
SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.16 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 62.4%
Maximum value of SAR (measured) = 18.6 W/kg



0 dB = 18.6 W/kg = 12.70 dBW/kg

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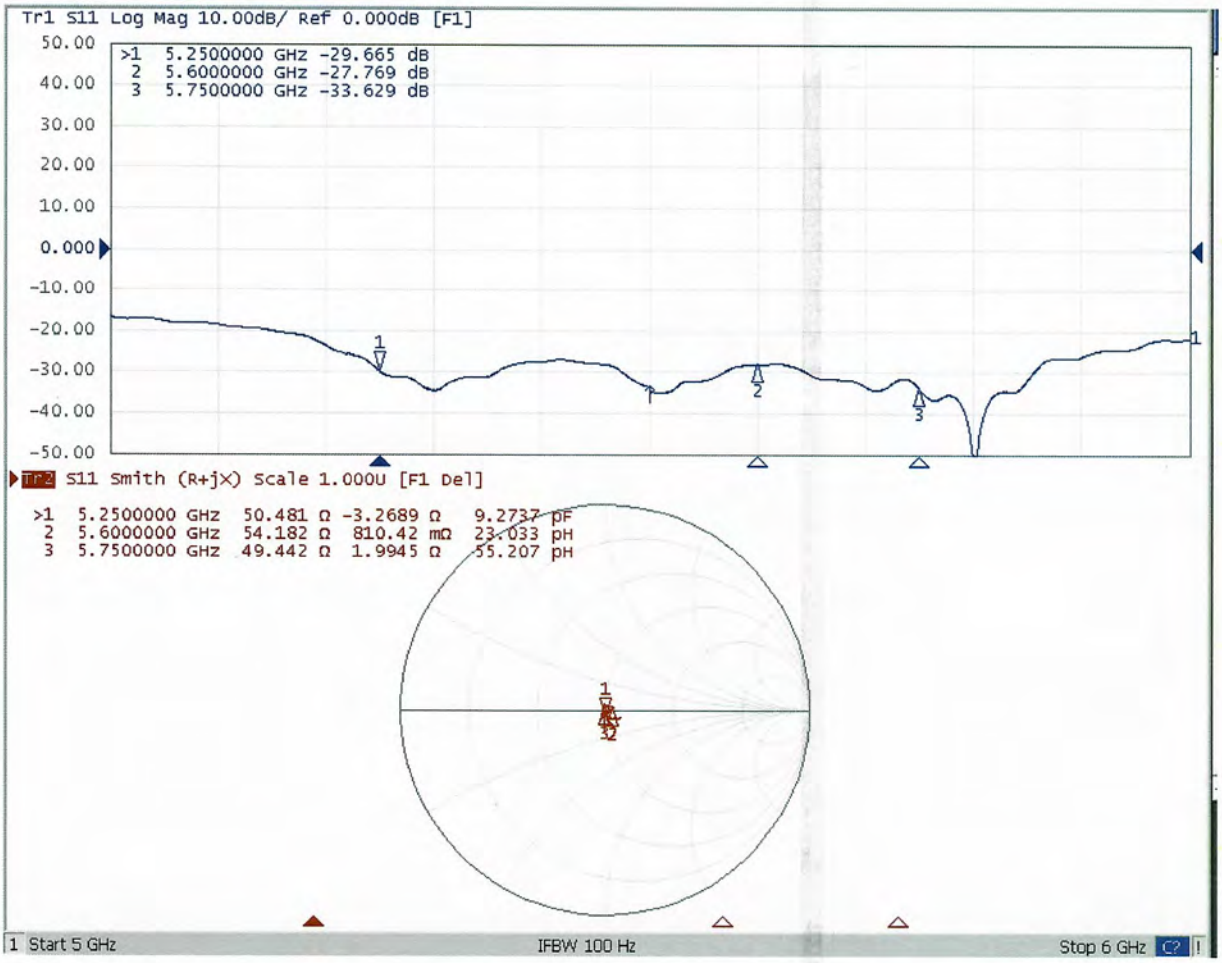
Impedance Measurement Plot for Head TSL



D5GHzV2 - SN: 1315 Extended Dipole Calibrations

Referring to KDB 865664 D01, if dipoles are verified in return loss (<-20dB, 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.

D5GHzV2 - SN: 1315						
5250MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.22.2021	-29.7		50.5		-3.27	
10.21.2022	-34.53	16.26	51.16	0.66	1.56	4.83
10.20.2023	-25.84	-12.98	54.50	4.00	-2.96	0.31

D5GHzV2 - SN: 1315						
5600MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.22.2021	-27.8		54.2		0.81	
10.21.2022	-31.03	11.63	49.59	-4.61	-2.79	-3.60
10.20.2023	-26.15	-5.95	54.92	0.71	-1.82	-2.63

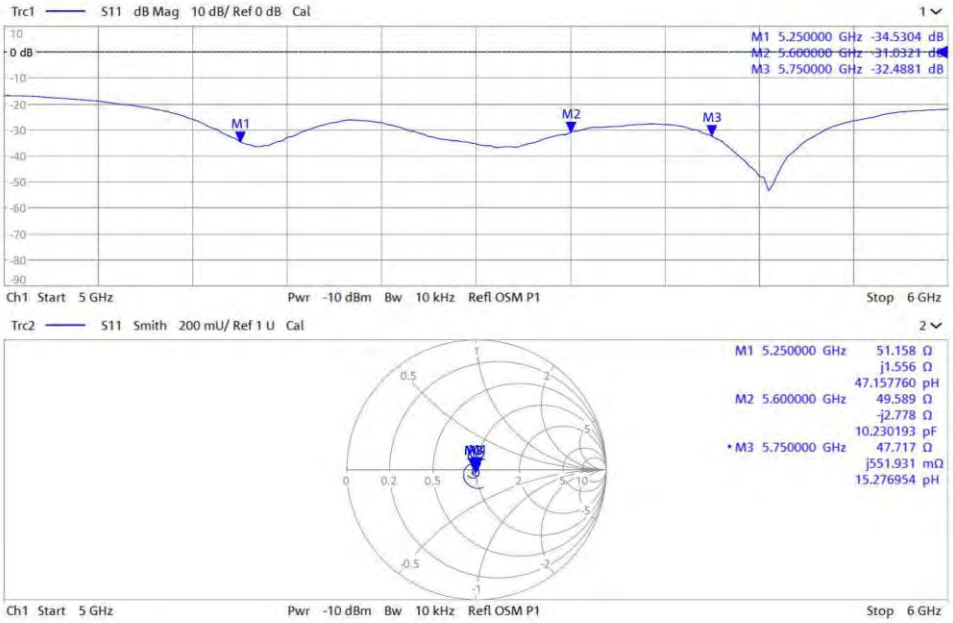
D5GHzV2 - SN: 1315						
5750MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.22.2021	-33.6		49.4		1.99	
10.21.2022	-32.49	-3.31	47.72	-1.68	0.55	-1.44
10.20.2023	-36.43	8.41	50.87	1.47	1.34	-0.65

<Justification of the extended calibration>

The return loss is < -20dB, 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 5250-5750MHz _2022.10.21



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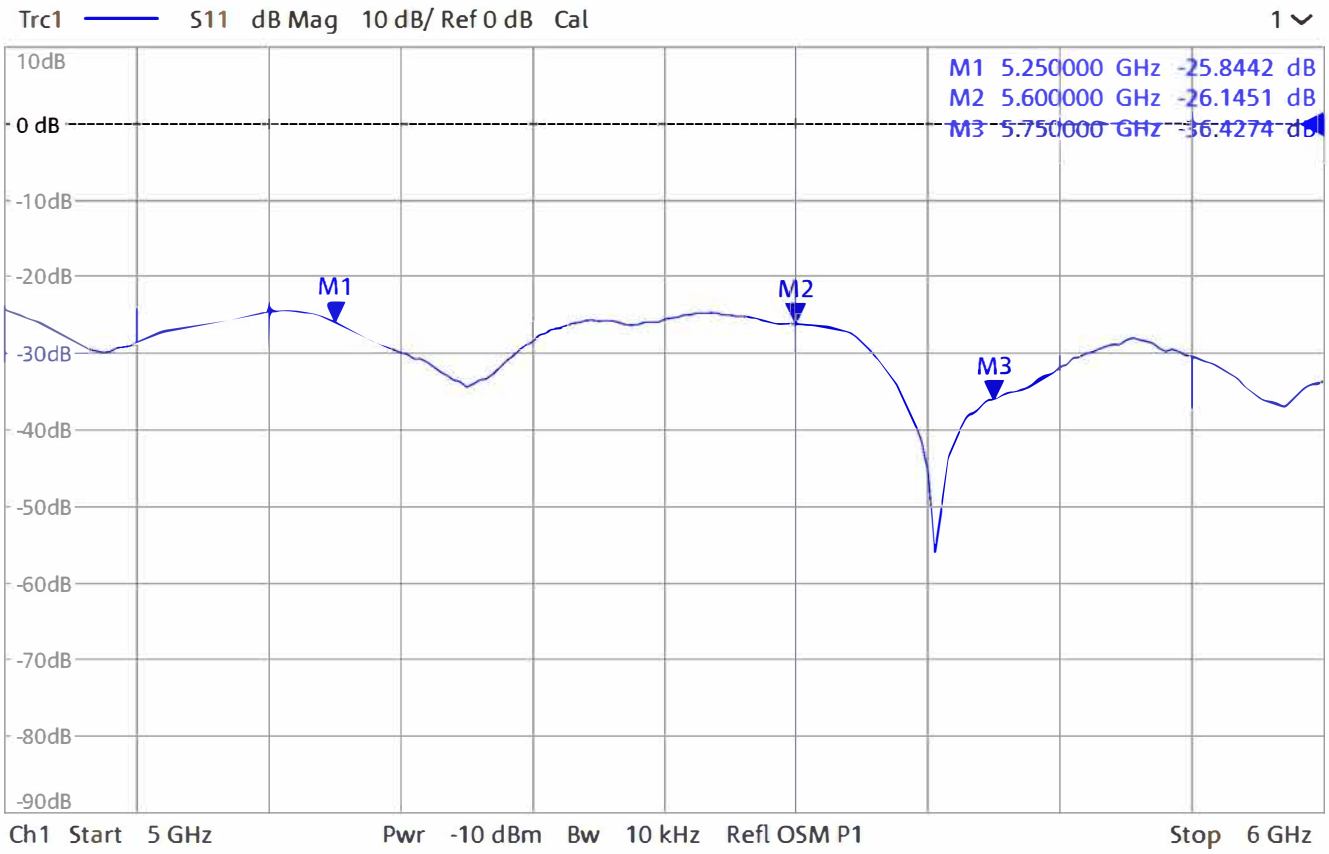
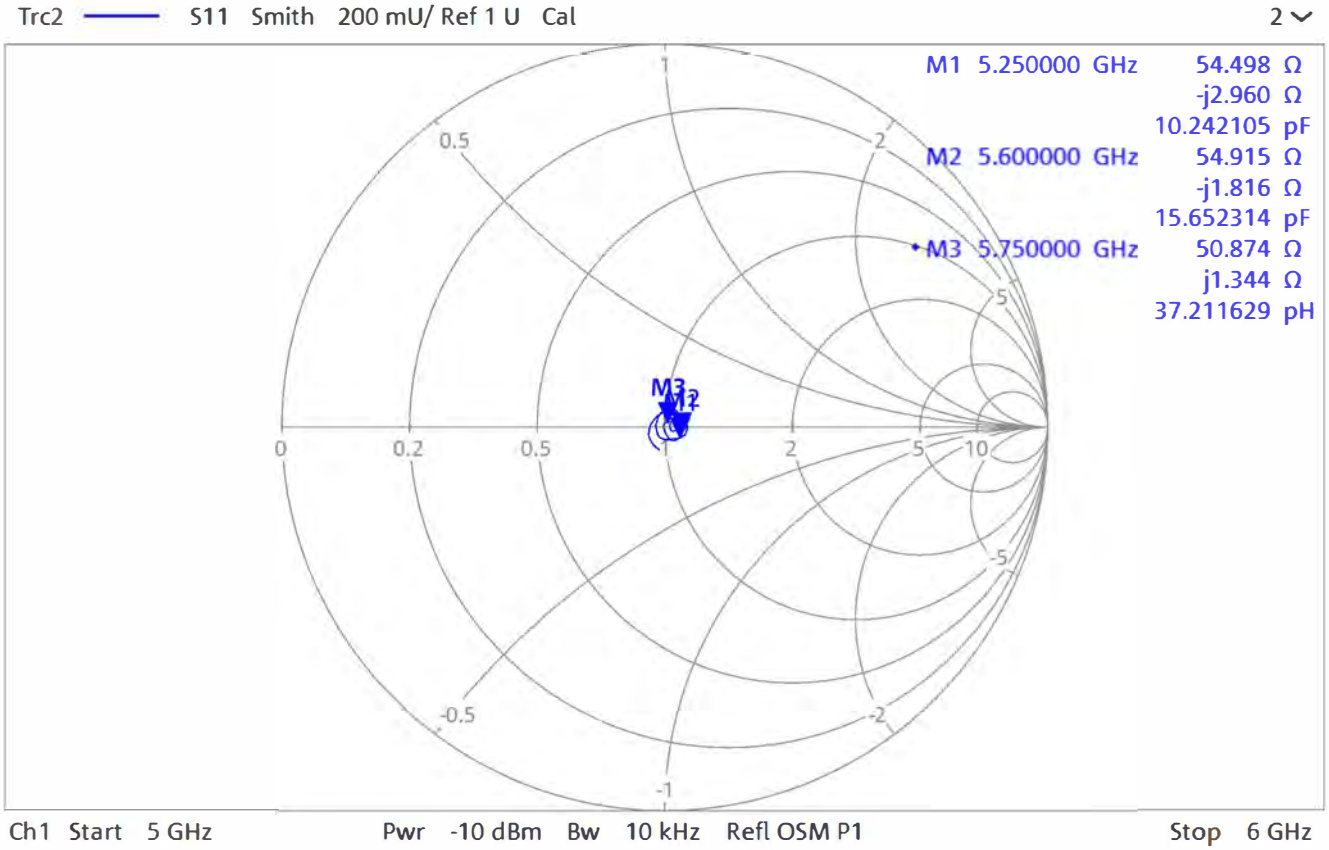
Head 5250-5750MHz _2023.10.20





Appendix D. Conducted RF Output Power Table

The detailed power table are shown as follows.

GSM&WCDMA Default

Ant1

Band	GSM850				GSM1900			
Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8	
GSM	32.33	32.37	**32.43**	33.50	29.31	**29.32**	29.24	30.50
GPRS 1Tx Slot	32.26	32.33	**32.41**	33.50	29.30	**29.31**	29.20	30.50
GPRS 2Tx Slot	28.90	28.97	29.09	30.00	25.63	25.80	25.85	26.50
GPRS 3Tx Slot	27.43	27.51	27.63	28.50	23.80	24.01	24.14	25.00
GPRS 4Tx Slot	26.38	26.45	26.59	27.50	22.81	23.04	23.23	24.00
EDGE 1Tx Slot	26.97	27.15	27.04	28.00	25.67	25.91	25.89	27.00
EDGE 2Tx Slot	23.67	23.82	23.75	25.00	22.60	22.92	22.85	24.00
EDGE 3Tx Slot	21.98	22.11	22.03	23.00	20.84	21.10	21.07	22.00
EDGE 4Tx Slot	21.28	21.33	21.34	22.00	19.77	19.96	20.01	21.00

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)
Channel	128	189	251		512	661	810	
GSM	23.33	23.37	23.43	24.50	20.31	20.32	20.24	21.50
GPRS 1Tx Slot	23.26	23.33	23.41	24.50	20.30	20.31	20.20	21.50
GPRS 2Tx Slot	22.90	22.97	23.09	24.00	19.63	19.80	19.85	20.50
GPRS 3Tx Slot	23.17	23.25	23.37	24.24	19.54	19.75	19.88	20.74
GPRS 4Tx Slot	23.38	23.45	23.59	24.50	19.81	20.04	20.23	21.00
EDGE 1Tx Slot	17.97	18.15	18.04	19.00	16.67	16.91	16.89	18.00
EDGE 2Tx Slot	17.67	17.82	17.75	19.00	16.60	16.92	16.85	18.00
EDGE 3Tx Slot	17.72	17.85	17.77	18.74	16.58	16.84	16.81	17.74
EDGE 4Tx Slot	18.28	18.33	18.34	19.00	16.77	16.96	17.01	18.00

Band	WCDMA II			WCDMA II	WCDMA IV			WCDMA IV	WCDMA V			WCDMA V
TX Channel	9262	9400	9538	Max. Tune-up Power (dBm)	1312	1413	1513	Max. Tune-up Power (dBm)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	24.31	24.36	**24.46**	**25.50**	24.31	**24.34**	24.30	**25.50**	24.23	24.28	**24.29**	**25.50**
HSDPA Subtest-1	23.48	23.56	23.59	24.00	23.41	23.47	23.47	24.00	23.37	23.40	23.39	24.00
HSDPA Subtest-2	23.47	23.50	23.66	24.00	23.50	23.44	23.39	24.00	23.35	23.39	23.40	24.00
HSDPA Subtest-3	22.98	22.98	23.10	24.00	22.94	22.94	22.96	24.00	22.89	22.93	22.99	24.00
HSDPA Subtest-4	23.00	22.98	23.10	24.00	22.98	22.97	22.90	24.00	22.93	22.91	22.88	24.00
DC-HSDPA Subtest-1	23.42	23.51	23.65	24.00	23.41	23.52	23.47	24.00	23.35	23.38	23.39	24.00
DC-HSDPA Subtest-2	23.47	23.50	23.57	24.00	23.47	23.44	23.43	24.00	23.38	23.43	23.43	24.00
DC-HSDPA Subtest-3	23.00	23.02	23.12	24.00	22.98	22.97	22.93	24.00	22.86	22.95	22.90	24.00
DC-HSDPA Subtest-4	22.95	23.03	23.08	24.00	22.96	22.94	22.98	24.00	22.86	22.88	22.95	24.00
HSUPA Subtest-1	21.61	21.73	21.79	23.00	21.67	21.64	21.65	23.00	21.57	21.58	21.60	23.00
HSUPA Subtest-2	21.39	21.35	21.48	23.00	21.39	21.41	21.35	23.00	21.33	21.37	21.30	23.00
HSUPA Subtest-3	22.24	22.30	22.42	23.00	22.27	22.31	22.19	23.00	22.16	22.18	22.19	23.00
HSUPA Subtest-4	21.15	21.05	21.07	23.00	21.05	21.17	21.03	23.00	21.20	21.18	21.19	23.00
HSUPA Subtest-5	22.22	22.32	22.42	23.00	22.21	22.27	22.25	23.00	22.20	22.21	22.25	23.00
HSPA+ Subtest-1	21.58	21.57	21.73	23.00	21.53	21.55	21.50	23.00	21.44	21.52	21.50	23.00

LTE Default Power
Ant1

LTE Band 2

BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		18700	18900	19100		
		Frequency (MHz)		1860	1880	1900		
20M	QPSK	1	0	23.71	23.76	23.71	0	25.5
		1	50	**24.11**	24.10	24.04	0	25.5
		1	99	23.68	23.66	23.76	0	25.5
		50	0	23.04	23.02	23.02	1	24.5
		50	25	23.05	23.03	23.04	1	24.5
		50	50	23.02	23.01	22.88	1	24.5
		100	0	23.07	23.06	22.96	1	24.5
	16QAM	1	0	23.05	23.01	23.08	1	24.5
		1	50	23.37	23.45	23.29	1	24.5
		1	99	23.01	22.98	22.92	1	24.5
		50	0	22.00	22.13	22.05	2	23.5
		50	25	22.09	22.17	22.10	2	23.5
		50	50	22.07	22.11	21.93	2	23.5
		100	0	22.05	22.08	21.99	2	23.5
	64QAM	1	0	21.92	21.96	21.97	2	23.5
		1	50	22.30	22.31	22.33	2	23.5
		1	99	21.90	21.91	21.98	2	23.5
		50	0	20.99	21.11	21.05	3	22.5
		50	25	21.06	21.14	21.09	3	22.5
		50	50	21.08	21.09	21.00	3	22.5
		100	0	21.01	21.10	21.02	3	22.5
BW	Modulation	Channel		18675	18900	19125	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1857.5	1880	1902.5		
15M	QPSK	1	0	23.88	23.86	23.84	0	25.5
		1	37	24.17	24.12	23.83	0	25.5
		1	74	23.80	23.73	23.67	0	25.5
		36	0	23.07	22.98	22.89	1	24.5
		36	19	23.00	22.95	22.84	1	24.5
		36	39	23.11	22.97	22.83	1	24.5
		75	0	22.90	23.09	22.93	1	24.5
	16QAM	1	0	22.63	22.74	22.68	1	24.5
		1	37	22.99	22.83	22.80	1	24.5
		1	74	22.67	22.65	22.58	1	24.5
		36	0	21.91	21.84	21.82	2	23.5
		36	19	21.95	21.96	22.01	2	23.5
		36	39	21.97	22.00	21.79	2	23.5
		75	0	22.10	21.94	22.04	2	23.5
	64QAM	1	0	21.72	21.65	21.56	2	23.5
		1	37	21.95	21.91	22.04	2	23.5
		1	74	21.70	21.73	21.77	2	23.5
		36	0	20.86	20.79	20.84	3	22.5
		36	19	20.83	20.85	20.80	3	22.5
		36	39	21.07	20.86	20.93	3	22.5
		75	0	20.86	20.89	20.79	3	22.5
BW	Modulation	Channel		18650	18900	19150	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1855	1880	1905		
10M	QPSK	1	0	23.77	23.79	23.74	0	25.5
		1	24	24.23	24.02	23.87	0	25.5
		1	49	23.91	23.71	23.81	0	25.5
		25	0	23.10	22.92	22.89	1	24.5
		25	12	22.98	22.96	22.81	1	24.5
		25	25	23.12	22.98	22.86	1	24.5
		50	0	22.89	23.01	22.97	1	24.5
	16QAM	1	0	22.66	22.71	22.62	1	24.5
		1	24	23.00	22.82	22.79	1	24.5
		1	49	22.56	22.67	22.54	1	24.5
		25	0	21.91	21.80	21.93	2	23.5
		25	12	21.88	21.94	21.97	2	23.5
		25	25	22.00	22.04	21.83	2	23.5
		50	0	22.08	21.87	22.04	2	23.5
	64QAM	1	0	21.69	21.78	21.65	2	23.5
		1	24	22.09	21.88	22.13	2	23.5
		1	49	21.70	21.70	21.63	2	23.5
		25	0	20.91	20.79	20.76	3	22.5
		25	12	20.88	20.91	20.89	3	22.5
		25	25	21.06	20.85	20.88	3	22.5
		50	0	21.00	20.96	20.80	3	22.5
BW	Modulation	Channel		18625	18900	19175	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1852.5	1880	1907.5		
5M	QPSK	1	0	23.84	23.91	23.75	0	25.5
		1	12	24.18	24.05	23.83	0	25.5
		1	24	23.93	23.74	23.73	0	25.5
		12	0	23.08	22.95	22.91	1	24.5
		12	6	22.99	22.89	22.89	1	24.5
		12	13	23.06	22.99	22.91	1	24.5
		25	0	22.90	23.11	22.90	1	24.5
	16QAM	1	0	22.77	22.77	22.57	1	24.5
		1	12	22.94	22.85	22.83	1	24.5
		1	24	22.69	22.66	22.59	1	24.5
		12	0	21.96	21.94	21.82	2	23.5
		12	6	21.91	21.86	21.93	2	23.5
		12	13	21.99	22.09	21.88	2	23.5
		25	0	22.01	21.94	21.96	2	23.5
	64QAM	1	0	21.65	21.76	21.53	2	23.5
		1	12	22.00	21.90	22.11	2	23.5
		1	24	21.69	21.66	21.64	2	23.5
		12	0	20.87	20.89	20.78	3	22.5
		12	6	20.82	20.90	20.88	3	22.5
		12	13	20.96	20.84	20.93	3	22.5
		25	0	20.92	20.90	20.81	3	22.5
BW	Modulation	Channel		18615	18900	19185	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1851.5	1880	1908.5		
3M	QPSK	1	0	23.88	23.89	23.83	0	25.5
		1	7	24.23	24.04	23.84	0	25.5
		1	14	23.81	23.71	23.74	0	25.5
		8	0	23.06	22.96	23.02	1	24.5
		8	3	23.07	22.92	22.90	1	24.5
		8	7	23.16	22.99	22.81	1	24.5
		15	0	23.01	23.03	22.91	1	24.5
	16QAM	1	0	22.69	22.70	22.64	1	24.5
		1	7	23.01	22.82	22.72	1	24.5
		1	14	22.57	22.68	22.53	1	24.5
		8	0	22.00	21.94	21.91	2	23.5
		8	3	21.95	21.86	21.97	2	23.5
		8	7	21.97	22.10	21.87	2	23.5
		15	0	21.97	21.82	21.95	2	23.5
	64QAM	1	0	21.72	21.79	21.62	2	23.5
		1	7	22.00	21.90	22.10	2	23.5
		1	14	21.61	21.65	21.72	2	23.5
		8	0	20.94	20.88	20.74	3	22.5
		8	3	20.85	20.87	20.84	3	22.5
		8	7	21.01	20.88	20.92	3	22.5
		15	0	20.92	20.89	20.79	3	22.5
BW	Modulation	Channel		18607	18900	19193	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1850.7	1880	1909.3		
1.4M	QPSK	1	0	23.70	23.75	23.68	0	25.5
		1	2	24.05	23.97	24.01	0	25.5
		1	5	23.60	23.54	23.70	0	25.5
		3	0	23.75	23.73	23.76	0	25.5
		3	1	23.79	23.76	23.72	0	25.5
		3	3	23.69	23.76	23.57	0	25.5
		6	0	22.97	22.96	22.94	1	24.5
	16QAM	1	0	23.04	23.00	22.98	1	24.5
		1	2	23.26	23.36	23.21	1	24.5
		1	5	22.92	22.86	22.86	1	24.5
		3	0	22.79	22.81	22.80	1	24.5
		3	1	22.77	22.88	22.81	1	24.5
		3	3	22.74	22.88	22.66	1	24.5
		6	0	22.02	22.01	21.90	2	23.5
	64QAM	1	0	21.79	21.92	21.90	2	23.5
		1	2	22.27	22.22	22.19	2	23.5
		1	5	21.86	21.80	21.94	2	23.5
		3	0	21.72	21.84	21.83	2	23.5
		3	1	21.85	21.95	21.88	2	23.5
		3	3	21.82	21.84	21.80	2	23.5
		6	0	20.97	21.06	20.93	3	22.5

LTE Band 4

BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20050	20175	20300		
		Frequency (MHz)		1720	1732.5	1745		
20M	QPSK	1	0	23.78	23.68	23.79	0	25.5
		1	50	24.11	24.15	**24.20**	0	25.5
		1	99	23.90	23.80	23.78	0	25.5
		50	0	23.23	23.18	23.21	1	24.5
		50	25	23.27	23.26	23.29	1	24.5
		50	50	23.26	23.23	23.20	1	24.5
		100	0	23.21	23.22	23.23	1	24.5
	16QAM	1	0	23.06	23.12	23.15	1	24.5
		1	50	23.44	23.47	23.48	1	24.5
		1	99	23.21	23.19	23.12	1	24.5
		50	0	22.22	22.18	22.22	2	23.5
		50	25	22.25	22.26	22.26	2	23.5
		50	50	22.24	22.24	22.21	2	23.5
		100	0	22.17	22.21	22.22	2	23.5
	64QAM	1	0	21.98	22.06	22.08	2	23.5
		1	50	22.36	22.44	22.43	2	23.5
		1	99	22.07	22.13	22.09	2	23.5
		50	0	21.13	21.17	21.18	3	22.5
		50	25	21.22	21.24	21.22	3	22.5
		50	50	21.18	21.23	21.19	3	22.5
		100	0	21.14	21.20	21.27	3	22.5
BW	Modulation	Channel		20025	20175	20325	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1732.5	1747.5		
15M	QPSK	1	0	23.88	23.86	23.71	0	25.5
		1	37	24.20	24.12	23.93	0	25.5
		1	74	23.90	23.62	23.68	0	25.5
		36	0	22.98	22.90	22.89	1	24.5
		36	19	23.04	22.87	22.82	1	24.5
		36	39	23.18	23.03	22.91	1	24.5
		75	0	23.00	23.00	22.94	1	24.5
	16QAM	1	0	22.77	22.76	22.61	1	24.5
		1	37	22.91	22.91	22.74	1	24.5
		1	74	22.67	22.55	22.50	1	24.5
		36	0	21.99	21.88	21.81	2	23.5
		36	19	21.82	21.92	21.90	2	23.5
		36	39	21.99	22.03	21.78	2	23.5
		75	0	22.10	21.89	21.97	2	23.5
	64QAM	1	0	21.66	21.75	21.58	2	23.5
		1	37	22.01	21.97	22.13	2	23.5
		1	74	21.72	21.72	21.74	2	23.5
		36	0	20.90	20.76	20.83	3	22.5
		36	19	20.91	20.92	20.90	3	22.5
		36	39	20.99	20.84	20.90	3	22.5
		75	0	20.90	20.92	20.77	3	22.5
BW	Modulation	Channel		20000	20175	20350	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1732.5	1750		
10M	QPSK	1	0	23.82	23.90	23.83	0	25.5
		1	24	24.20	24.04	23.82	0	25.5
		1	49	23.89	23.75	23.76	0	25.5
		25	0	23.06	22.88	22.90	1	24.5
		25	12	23.03	22.95	22.88	1	24.5
		25	25	23.16	23.02	22.93	1	24.5
		50	0	22.96	23.08	22.94	1	24.5
	16QAM	1	0	22.67	22.79	22.59	1	24.5
		1	24	22.91	22.90	22.82	1	24.5
		1	49	22.61	22.64	22.62	1	24.5
		25	0	21.98	21.90	21.85	2	23.5
		25	12	21.89	21.95	21.95	2	23.5
		25	25	21.97	21.98	21.88	2	23.5
		50	0	22.05	21.88	21.94	2	23.5
	64QAM	1	0	21.73	21.68	21.62	2	23.5
		1	24	22.08	21.99	22.09	2	23.5
		1	49	21.71	21.71	21.71	2	23.5
		25	0	20.80	20.88	20.75	3	22.5
		25	12	20.94	20.87	20.85	3	22.5
		25	25	20.97	20.88	20.83	3	22.5
		50	0	20.92	20.98	20.79	3	22.5
BW	Modulation	Channel		19975	20175	20375	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1732.5	1752.5		
5M	QPSK	1	0	23.88	23.80	23.82	0	25.5
		1	12	24.21	24.06	23.92	0	25.5
		1	24	23.93	23.76	23.79	0	25.5
		12	0	23.03	22.85	22.99	1	24.5
		12	6	23.06	22.95	22.86	1	24.5
		12	13	23.09	23.09	22.84	1	24.5
		25	0	22.97	23.04	22.83	1	24.5
	16QAM	1	0	22.74	22.70	22.70	1	24.5
		1	12	22.94	22.84	22.72	1	24.5
		1	24	22.68	22.66	22.58	1	24.5
		12	0	22.03	21.91	21.84	2	23.5
		12	6	21.87	21.94	21.91	2	23.5
		12	13	21.90	21.98	21.82	2	23.5
		25	0	22.09	21.86	21.94	2	23.5
	64QAM	1	0	21.63	21.70	21.55	2	23.5
		1	12	21.99	21.95	22.15	2	23.5
		1	24	21.70	21.60	21.68	2	23.5
		12	0	20.83	20.82	20.73	3	22.5
		12	6	20.82	20.88	20.88	3	22.5
		12	13	21.02	20.86	20.92	3	22.5
		25	0	21.00	20.98	20.86	3	22.5
BW	Modulation	Channel		19965	20175	20385	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1732.5	1753.5		
3M	QPSK	1	0	23.88	23.79	23.82	0	25.5
		1	7	24.25	24.13	23.86	0	25.5
		1	14	23.90	23.64	23.72	0	25.5
		8	0	23.10	22.95	23.01	1	24.5
		8	3	22.99	22.87	22.88	1	24.5
		8	7	23.09	23.03	22.94	1	24.5
		15	0	23.02	22.98	22.84	1	24.5
	16QAM	1	0	22.68	22.80	22.58	1	24.5
		1	7	22.94	22.82	22.71	1	24.5
		1	14	22.58	22.67	22.49	1	24.5
		8	0	22.00	21.87	21.94	2	23.5
		8	3	21.86	21.83	21.93	2	23.5
		8	7	22.00	22.10	21.85	2	23.5
		15	0	22.05	21.94	22.04	2	23.5
	64QAM	1	0	21.62	21.78	21.65	2	23.5
		1	7	21.99	21.98	22.09	2	23.5
		1	14	21.73	21.70	21.71	2	23.5
		8	0	20.80	20.84	20.76	3	22.5
		8	3	20.83	20.82	20.89	3	22.5
		8	7	20.98	20.84	20.89	3	22.5
		15	0	20.86	20.97	20.80	3	22.5
BW	Modulation	Channel		19957	20175	20393	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1732.5	1754.3		
1.4M	QPSK	1	0	23.69	23.56	23.74	0	25.5
		1	2	24.01	24.05	24.15	0	25.5
		1	5	23.81	23.65	23.77	0	25.5
		3	0	23.96	23.95	23.89	0	25.5
		3	1	24.07	24.05	24.01	0	25.5
		3	3	24.06	24.04	23.91	0	25.5
		6	0	23.15	23.08	23.16	1	24.5
	16QAM	1	0	23.05	23.04	23.10	1	24.5
		1	2	23.33	23.45	23.43	1	24.5
		1	5	23.08	23.17	23.04	1	24.5
		3	0	22.91	22.89	22.91	1	24.5
		3	1	22.93	22.96	22.93	1	24.5
		3	3	23.03	23.04	22.89	1	24.5
		6	0	22.10	22.14	22.20	2	23.5
	64QAM	1	0	21.97	21.95	22.01	2	23.5
		1	2	22.29	22.39	22.29	2	23.5
		1	5	21.94	22.00	22.06	2	23.5
		3	0	21.87	21.92	21.94	2	23.5
		3	1	22.00	22.05	21.95	2	23.5
		3	3	21.86	22.03	21.95	2	23.5
		6	0	21.08	21.16	21.24	3	22.5

LTE Band 5

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	24.23	24.35	24.32	0	25.5
		1	24	24.39	24.43	**24.44**	0	25.5
		1	49	24.25	24.27	24.34	0	25.5
		25	0	23.30	23.40	23.28	1	24.5
		25	12	23.32	23.41	23.43	1	24.5
		25	25	23.27	23.39	23.40	1	24.5
		50	0	23.29	23.35	23.36	1	24.5
	16QAM	1	0	23.50	23.55	23.56	1	24.5
		1	24	23.73	23.61	23.65	1	24.5
		1	49	23.53	23.54	23.55	1	24.5
		25	0	22.41	22.50	22.37	2	23.5
		25	12	22.38	22.43	22.47	2	23.5
		25	25	22.33	22.50	22.45	2	23.5
		50	0	22.37	22.48	22.41	2	23.5
	64QAM	1	0	22.46	22.62	22.50	2	23.5
		1	24	22.61	22.61	22.68	2	23.5
		1	49	22.49	22.46	22.56	2	23.5
		25	0	21.35	21.48	21.32	3	22.5
		25	12	21.37	21.42	21.39	3	22.5
		25	25	21.31	21.44	21.38	3	22.5
		50	0	21.33	21.47	21.35	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	24.09	24.23	24.24	0	25.5
		1	12	24.38	24.40	24.33	0	25.5
		1	24	24.15	24.19	24.22	0	25.5
		12	0	23.15	23.36	23.21	1	24.5
		12	6	23.22	23.38	23.30	1	24.5
		12	13	23.25	23.36	23.29	1	24.5
		25	0	23.14	23.31	23.31	1	24.5
	16QAM	1	0	23.48	23.52	23.43	1	24.5
		1	12	23.72	23.60	23.50	1	24.5
		1	24	23.40	23.39	23.51	1	24.5
		12	0	22.40	22.45	22.24	2	23.5
		12	6	22.29	22.40	22.39	2	23.5
		12	13	22.32	22.36	22.30	2	23.5
		25	0	22.24	22.47	22.31	2	23.5
	64QAM	1	0	22.45	22.54	22.44	2	23.5
		1	12	22.47	22.49	22.53	2	23.5
		1	24	22.44	22.43	22.53	2	23.5
		12	0	21.28	21.47	21.31	3	22.5
		12	6	21.26	21.35	21.36	3	22.5
		12	13	21.29	21.38	21.34	3	22.5
		25	0	21.20	21.46	21.29	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	24.18	24.25	24.29	0	25.5
		1	7	24.38	24.41	24.30	0	25.5
		1	14	24.23	24.17	24.28	0	25.5
		8	0	23.25	23.29	23.23	1	24.5
		8	3	23.23	23.39	23.39	1	24.5
		8	7	23.19	23.36	23.37	1	24.5
		15	0	23.22	23.21	23.32	1	24.5
	16QAM	1	0	23.49	23.54	23.44	1	24.5
		1	7	23.65	23.57	23.50	1	24.5
		1	14	23.43	23.46	23.47	1	24.5
		8	0	22.27	22.45	22.30	2	23.5
		8	3	22.30	22.41	22.34	2	23.5
		8	7	22.18	22.46	22.30	2	23.5
		15	0	22.23	22.37	22.36	2	23.5
	64QAM	1	0	22.37	22.55	22.46	2	23.5
		1	7	22.52	22.46	22.65	2	23.5
		1	14	22.38	22.45	22.50	2	23.5
		8	0	21.22	21.40	21.30	3	22.5
		8	3	21.30	21.34	21.37	3	22.5
		8	7	21.29	21.39	21.24	3	22.5
		15	0	21.27	21.37	21.27	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	24.15	24.34	24.24	0	25.5
		1	2	24.38	24.30	24.41	0	25.5
		1	5	24.24	24.17	24.29	0	25.5
		3	0	24.21	24.38	24.18	0	25.5
		3	1	24.26	24.32	24.32	0	25.5
		3	3	24.23	24.27	24.25	0	25.5
		6	0	23.21	23.22	23.30	1	24.5
	16QAM	1	0	23.45	23.50	23.55	1	24.5
		1	2	23.68	23.46	23.55	1	24.5
		1	5	23.50	23.51	23.48	1	24.5
		3	0	23.31	23.48	23.26	1	24.5
		3	1	23.25	23.33	23.42	1	24.5
		3	3	23.24	23.46	23.43	1	24.5
		6	0	22.22	22.47	22.33	2	23.5
	64QAM	1	0	22.42	22.52	22.43	2	23.5
		1	2	22.58	22.57	22.58	2	23.5
		1	5	22.38	22.31	22.44	2	23.5
		3	0	22.23	22.39	22.20	2	23.5
		3	1	22.31	22.41	22.36	2	23.5
		3	3	22.18	22.39	22.37	2	23.5
		6	0	21.26	21.37	21.21	3	22.5

LTE Band 7

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	23.89	23.81	23.80	0	25
		1	50	**24.18**	24.02	24.10	0	25
		1	99	23.73	23.70	23.67	0	25
		50	0	23.20	23.11	23.07	1	24
		50	25	23.23	23.13	23.11	1	24
		50	50	23.22	22.98	23.01	1	24
		100	0	23.18	23.02	23.00	1	24
	16QAM	1	0	23.11	23.10	23.08	1	24
		1	50	23.34	23.27	23.31	1	24
		1	99	23.03	22.87	22.91	1	24
		50	0	22.21	22.10	22.07	2	23
		50	25	22.20	22.12	22.06	2	23
		50	50	22.17	21.98	22.00	2	23
		100	0	22.15	22.00	21.98	2	23
	64QAM	1	0	22.20	22.01	22.02	2	23
		1	50	22.37	22.19	22.32	2	23
		1	99	21.94	21.92	21.76	2	23
		50	0	21.19	20.97	21.05	3	22
		50	25	21.17	21.09	21.04	3	22
		50	50	21.14	20.96	20.93	3	22
		100	0	21.13	20.98	20.99	3	22
BW	Modulation	Channel		20825	21100	21375	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2507.5	2535	2562.5		
15M	QPSK	1	0	23.81	23.80	23.68	0	25
		1	37	24.15	23.91	24.09	0	25
		1	74	23.70	23.57	23.62	0	25
		36	0	23.14	23.02	22.99	1	24
		36	19	23.17	23.01	23.01	1	24
		36	39	23.19	22.83	22.91	1	24
		75	0	23.09	22.90	22.94	1	24
	16QAM	1	0	22.99	22.95	23.00	1	24
		1	37	23.28	23.23	23.29	1	24
		1	74	22.96	22.84	22.79	1	24
		36	0	22.10	22.05	22.06	2	23
		36	19	22.09	22.00	21.92	2	23
		36	39	22.10	21.85	21.93	2	23
		75	0	22.02	21.91	21.86	2	23
	64QAM	1	0	22.08	21.91	21.88	2	23
		1	37	22.28	22.14	22.30	2	23
		1	74	21.84	21.78	21.68	2	23
		36	0	21.13	20.91	21.03	3	22
		36	19	21.16	20.98	21.02	3	22
		36	39	21.08	20.82	20.83	3	22
		75	0	21.00	20.95	20.93	3	22
BW	Modulation	Channel		20800	21100	21400	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2505	2535	2565		
10M	QPSK	1	0	23.85	23.70	23.74	0	25
		1	24	24.12	23.95	24.02	0	25
		1	49	23.63	23.62	23.59	0	25
		25	0	23.21	22.99	23.01	1	24
		25	12	23.16	23.05	23.05	1	24
		25	25	23.13	22.90	22.97	1	24
		50	0	23.04	22.93	22.91	1	24
	16QAM	1	0	23.09	23.05	23.01	1	24
		1	24	23.31	23.24	23.29	1	24
		1	49	22.96	22.73	22.82	1	24
		25	0	22.06	21.96	22.00	2	23
		25	12	22.11	22.02	21.93	2	23
		25	25	22.05	21.91	21.93	2	23
		50	0	22.09	21.85	21.97	2	23
	64QAM	1	0	22.12	22.00	21.99	2	23
		1	24	22.29	22.12	22.18	2	23
		1	49	21.84	21.83	21.71	2	23
		25	0	21.16	20.84	20.98	3	22
		25	12	21.10	20.99	20.91	3	22
		25	25	21.08	20.82	20.81	3	22
		50	0	21.07	20.84	20.94	3	22
BW	Modulation	Channel		20775	21100	21425	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2502.5	2535	2567.5		
5M	QPSK	1	0	23.82	23.72	23.78	0	25
		1	12	24.09	23.95	24.04	0	25
		1	24	23.69	23.55	23.54	0	25
		12	0	23.22	23.06	23.02	1	24
		12	6	23.06	23.07	23.03	1	24
		12	13	23.09	22.87	22.86	1	24
		25	0	23.04	23.00	22.86	1	24
	16QAM	1	0	23.08	22.95	23.05	1	24
		1	12	23.31	23.12	23.25	1	24
		1	24	22.93	22.75	22.86	1	24
		12	0	22.19	22.03	21.92	2	23
		12	6	22.13	22.05	21.93	2	23
		12	13	22.11	21.83	21.96	2	23
		25	0	22.10	21.88	21.93	2	23
	64QAM	1	0	22.07	21.86	21.97	2	23
		1	12	22.31	22.10	22.25	2	23
		1	24	21.91	21.77	21.69	2	23
		12	0	21.18	20.93	20.92	3	22
		12	6	21.09	21.02	21.00	3	22
		12	13	20.99	20.84	20.92	3	22
		25	0	21.12	20.95	20.91	3	22

LTE Band 38

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	23.72	23.85	23.84	0	25
		1	50	23.97	**24.03**	24.01	0	25
		1	99	23.75	23.76	23.80	0	25
		50	0	22.82	22.94	22.93	1	24
		50	25	22.84	22.96	22.94	1	24
		50	50	22.81	22.82	22.81	1	24
		100	0	22.93	22.95	22.94	1	24
	16QAM	1	0	22.76	22.79	22.81	1	24
		1	50	23.07	23.09	23.11	1	24
		1	99	22.72	22.69	22.71	1	24
		50	0	21.90	21.96	22.03	2	23
		50	25	21.94	21.99	21.98	2	23
		50	50	21.91	21.88	21.85	2	23
		100	0	21.93	21.97	21.97	2	23
	64QAM	1	0	21.73	21.79	21.68	2	23
		1	50	21.79	21.80	21.83	2	23
		1	99	21.66	21.69	21.73	2	23
		50	0	20.82	20.95	20.97	3	22
		50	25	20.88	20.96	20.96	3	22
		50	50	20.84	20.82	20.78	3	22
		100	0	20.84	20.91	20.95	3	22
BW	Modulation	Channel		37825	38000	38175	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2577.5	2595	2612.5		
15M	QPSK	1	0	23.69	23.76	23.70	0	25
		1	37	23.99	23.99	23.91	0	25
		1	74	23.60	23.73	23.73	0	25
		36	0	22.75	22.81	22.85	1	24
		36	19	22.82	22.84	22.81	1	24
		36	39	22.74	22.73	22.75	1	24
		75	0	22.92	22.84	22.81	1	24
	16QAM	1	0	22.63	22.75	22.70	1	24
		1	37	22.98	22.95	23.08	1	24
		1	74	22.68	22.60	22.66	1	24
		36	0	21.75	21.89	21.99	2	23
		36	19	21.92	21.95	21.90	2	23
		36	39	21.84	21.82	21.82	2	23
		75	0	21.87	21.89	21.94	2	23
	64QAM	1	0	21.65	21.77	21.67	2	23
		1	37	21.64	21.66	21.76	2	23
		1	74	21.53	21.56	21.62	2	23
		36	0	20.79	20.94	20.96	3	22
		36	19	20.85	20.82	20.92	3	22
		36	39	20.75	20.78	20.73	3	22
		75	0	20.72	20.90	20.91	3	22
BW	Modulation	Channel		37800	38000	38200	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2575	2595	2615		
10M	QPSK	1	0	23.62	23.81	23.69	0	25
		1	24	23.93	23.92	23.96	0	25
		1	49	23.72	23.70	23.73	0	25
		25	0	22.79	22.93	22.89	1	24
		25	12	22.69	22.94	22.80	1	24
		25	25	22.73	22.75	22.75	1	24
		50	0	22.90	22.84	22.85	1	24
	16QAM	1	0	22.66	22.70	22.69	1	24
		1	24	22.94	23.06	23.03	1	24
		1	49	22.57	22.66	22.56	1	24
		25	0	21.75	21.87	21.90	2	23
		25	12	21.80	21.95	21.88	2	23
		25	25	21.81	21.73	21.72	2	23
		50	0	21.87	21.90	21.88	2	23
	64QAM	1	0	21.65	21.69	21.60	2	23
		1	24	21.67	21.77	21.75	2	23
		1	49	21.52	21.65	21.68	2	23
		25	0	20.68	20.82	20.94	3	22
		25	12	20.82	20.82	20.82	3	22
		25	25	20.83	20.71	20.76	3	22
		50	0	20.76	20.78	20.93	3	22
BW	Modulation	Channel		37775	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5		
5M	QPSK	1	0	23.71	23.70	23.70	0	25
		1	12	24.00	23.90	23.86	0	25
		1	24	23.66	23.67	23.73	0	25
		12	0	22.74	22.88	22.91	1	24
		12	6	22.80	22.86	22.86	1	24
		12	13	22.68	22.74	22.72	1	24
		25	0	22.84	22.85	22.93	1	24
	16QAM	1	0	22.64	22.75	22.66	1	24
		1	12	23.04	22.99	22.97	1	24
		1	24	22.59	22.58	22.57	1	24
		12	0	21.89	21.87	21.99	2	23
		12	6	21.92	21.92	21.87	2	23
		12	13	21.77	21.81	21.70	2	23
		25	0	21.83	21.87	21.93	2	23
	64QAM	1	0	21.64	21.64	21.64	2	23
		1	12	21.75	21.70	21.74	2	23
		1	24	21.51	21.55	21.63	2	23
		12	0	20.81	20.90	20.94	3	22
		12	6	20.75	20.95	20.87	3	22
		12	13	20.70	20.76	20.66	3	22
		25	0	20.72	20.90	20.91	3	22

LTE Band 41 (2496 ~ 2690MHz)

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	23.70	23.57	23.64	23.57	23.34	0	25
		1	50	**23.96**	23.80	23.94	23.91	23.49	0	25
		1	99	23.56	23.46	23.58	23.52	23.44	0	25
		50	0	22.79	22.68	22.79	22.69	22.65	1	24
		50	25	22.86	22.71	22.81	22.71	22.67	1	24
		50	50	22.82	22.67	22.76	22.67	22.66	1	24
		100	0	22.89	22.74	22.86	22.84	22.77	1	24
	16QAM	1	0	22.75	22.66	22.75	22.61	22.29	1	24
		1	50	22.99	22.87	23.02	22.99	22.54	1	24
		1	99	22.64	22.57	22.66	22.54	22.51	1	24
		50	0	21.84	21.78	21.90	21.76	21.70	2	23
		50	25	21.88	21.91	21.92	21.77	21.77	2	23
		50	50	21.88	21.82	21.85	21.83	21.76	2	23
		100	0	21.93	21.78	21.90	21.88	21.75	2	23
	64QAM	1	0	21.35	21.24	21.34	21.23	21.30	2	23
		1	50	21.62	21.47	21.57	21.45	21.50	2	23
		1	99	21.23	21.28	21.22	21.21	21.22	2	23
		50	0	20.77	20.75	20.85	20.77	20.67	3	22
		50	25	20.84	20.83	20.88	20.82	20.71	3	22
		50	50	20.79	20.68	20.81	20.72	20.67	3	22
		100	0	20.88	20.75	20.90	20.86	20.74	3	22
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	23.55	23.49	23.50	23.42	23.23	0	25
		1	37	23.84	23.75	23.83	23.87	23.38	0	25
		1	74	23.45	23.41	23.46	23.43	23.40	0	25
		36	0	22.64	22.54	22.67	22.57	22.51	1	24
		36	19	22.80	22.56	22.70	22.67	22.60	1	24
		36	39	22.68	22.61	22.73	22.66	22.57	1	24
		75	0	22.87	22.59	22.71	22.78	22.64	1	24
	16QAM	1	0	22.72	22.59	22.64	22.56	22.14	1	24
		1	37	22.93	22.81	23.01	22.92	22.44	1	24
		1	74	22.62	22.42	22.55	22.51	22.37	1	24
		36	0	21.81	21.71	21.83	21.62	21.65	2	23
		36	19	21.85	21.83	21.79	21.74	21.64	2	23
		36	39	21.73	21.70	21.79	21.72	21.70	2	23
		75	0	21.87	21.76	21.83	21.78	21.69	2	23
	64QAM	1	0	21.20	21.17	21.31	21.08	21.15	2	23
		1	37	21.57	21.32	21.56	21.44	21.49	2	23
		1	74	21.19	21.25	21.17	21.17	21.19	2	23
		36	0	20.73	20.60	20.73	20.70	20.60	3	22
		36	19	20.77	20.68	20.80	20.73	20.70	3	22
		36	39	20.69	20.61	20.69	20.60	20.56	3	22
		75	0	20.75	20.67	20.80	20.79	20.60	3	22
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	23.67	23.52	23.49	23.48	23.30	0	25
		1	24	23.93	23.69	23.85	23.85	23.40	0	25
		1	49	23.51	23.43	23.56	23.45	23.35	0	25
		25	0	22.69	22.56	22.74	22.54	22.55	1	24
		25	12	22.82	22.58	22.67	22.66	22.53	1	24
		25	25	22.70	22.62	22.71	22.65	22.61	1	24
		50	0	22.82	22.66	22.79	22.75	22.75	1	24
	16QAM	1	0	22.69	22.54	22.60	22.52	22.23	1	24
		1	24	22.89	22.84	22.97	22.85	22.48	1	24
		1	49	22.49	22.56	22.57	22.43	22.45	1	24
		25	0	21.71	21.76	21.82	21.69	21.58	2	23
		25	12	21.82	21.77	21.83	21.75	21.72	2	23
		25	25	21.83	21.70	21.74	21.79	21.69	2	23
		50	0	21.88	21.71	21.77	21.83	21.72	2	23
	64QAM	1	0	21.28	21.11	21.30	21.12	21.29	2	23
		1	24	21.54	21.40	21.48	21.38	21.49	2	23
		1	49	21.11	21.24	21.16	21.19	21.08	2	23
		25	0	20.73	20.71	20.81	20.69	20.64	3	22
		25	12	20.75	20.79	20.87	20.67	20.56	3	22
		25	25	20.67	20.53	20.74	20.64	20.62	3	22
		50	0	20.75	20.70	20.81	20.77	20.69	3	22
BW	Modulation	Channel		39675	40148	40620	41093	41565	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5		
5M	QPSK	1	0	23.59	23.50	23.51	23.51	23.25	0	25
		1	12	23.94	23.72	23.91	23.86	23.38	0	25
		1	24	23.49	23.34	23.51	23.38	23.35	0	25
		12	0	22.64	22.62	22.67	22.65	22.53	1	24
		12	6	22.84	22.57	22.68	22.65	22.53	1	24
		12	13	22.70	22.66	22.61	22.66	22.51	1	24
		25	0	22.75	22.70	22.71	22.70	22.66	1	24
	16QAM	1	0	22.62	22.65	22.70	22.56	22.20	1	24
		1	12	22.90	22.86	22.93	22.93	22.44	1	24
		1	24	22.61	22.44	22.55	22.41	22.48	1	24
		12	0	21.79	21.67	21.83	21.65	21.62	2	23
		12	6	21.80	21.90	21.80	21.68	21.68	2	23
		12	13	21.80	21.76	21.71	21.81	21.63	2	23
		25	0	21.80	21.66	21.77	21.82	21.73	2	23
	64QAM	1	0	21.24	21.22	21.28	21.20	21.27	2	23
		1	12	21.56	21.40	21.48	21.44	21.49	2	23
		1	24	21.21	21.23	21.09	21.18	21.09	2	23
		12	0	20.71	20.63	20.73	20.72	20.62	3	22
		12	6	20.76	20.73	20.78	20.78	20.67	3	22
		12	13	20.65	20.59	20.80	20.60	20.55	3	22
		25	0	20.78	20.60	20.82	20.85	20.66	3	22

LTE Band 66

BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		132072	132322	132572		
		Frequency (MHz)		1720	1745	1770		
20M	QPSK	1	0	23.87	23.88	23.78	0	25.5
		1	50	24.24	**24.26**	24.22	0	25.5
		1	99	23.88	23.89	23.86	0	25.5
		50	0	23.25	23.24	23.25	1	24.5
		50	25	23.28	23.29	23.26	1	24.5
		50	50	23.27	23.19	23.13	1	24.5
		100	0	23.21	23.28	23.16	1	24.5
	16QAM	1	0	23.07	23.17	23.08	1	24.5
		1	50	23.34	23.35	23.32	1	24.5
		1	99	23.31	23.05	23.23	1	24.5
		50	0	22.22	22.24	22.24	2	23.5
		50	25	22.27	22.19	22.23	2	23.5
		50	50	22.26	22.20	22.12	2	23.5
		100	0	22.24	22.19	22.15	2	23.5
	64QAM	1	0	22.14	22.10	22.05	2	23.5
		1	50	22.44	22.45	22.41	2	23.5
		1	99	22.02	22.12	22.10	2	23.5
		50	0	21.16	21.19	21.13	3	22.5
		50	25	21.20	21.27	21.22	3	22.5
		50	50	21.26	21.22	21.09	3	22.5
		100	0	21.23	21.26	21.14	3	22.5
BW	Modulation	Channel		132047	132322	132597	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1745	1772.5		
15M	QPSK	1	0	23.87	23.83	23.72	0	25.5
		1	37	24.12	24.10	23.84	0	25.5
		1	74	23.85	23.64	23.70	0	25.5
		36	0	23.06	22.87	22.94	1	24.5
		36	19	22.93	23.00	22.83	1	24.5
		36	39	23.14	23.04	22.95	1	24.5
		75	0	23.01	23.03	22.87	1	24.5
	16QAM	1	0	22.64	22.72	22.70	1	24.5
		1	37	22.92	22.85	22.75	1	24.5
		1	74	22.63	22.64	22.60	1	24.5
		36	0	22.03	21.80	21.92	2	23.5
		36	19	21.88	21.85	21.96	2	23.5
		36	39	21.92	22.06	21.83	2	23.5
		75	0	21.97	21.94	21.95	2	23.5
	64QAM	1	0	21.70	21.77	21.61	2	23.5
		1	37	22.00	21.98	22.06	2	23.5
		1	74	21.59	21.64	21.67	2	23.5
		36	0	20.89	20.86	20.78	3	22.5
		36	19	20.94	20.92	20.89	3	22.5
		36	39	21.07	20.83	20.91	3	22.5
		75	0	20.97	20.87	20.86	3	22.5
BW	Modulation	Channel		132022	132322	132622	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1745	1775		
10M	QPSK	1	0	23.86	23.87	23.73	0	25.5
		1	24	24.18	24.14	23.90	0	25.5
		1	49	23.83	23.68	23.72	0	25.5
		25	0	23.05	22.85	23.00	1	24.5
		25	12	23.04	22.97	22.87	1	24.5
		25	25	23.18	23.02	22.84	1	24.5
		50	0	22.99	23.02	22.89	1	24.5
	16QAM	1	0	22.69	22.67	22.63	1	24.5
		1	24	22.92	22.93	22.83	1	24.5
		1	49	22.68	22.58	22.54	1	24.5
		25	0	21.95	21.80	21.93	2	23.5
		25	12	21.84	21.84	21.90	2	23.5
		25	25	21.98	22.03	21.91	2	23.5
		50	0	22.05	21.90	22.05	2	23.5
	64QAM	1	0	21.64	21.79	21.57	2	23.5
		1	24	21.96	21.87	22.12	2	23.5
		1	49	21.61	21.64	21.67	2	23.5
		25	0	20.84	20.89	20.75	3	22.5
		25	12	20.91	20.94	20.81	3	22.5
		25	25	21.01	20.85	20.82	3	22.5
		50	0	20.98	20.94	20.86	3	22.5
BW	Modulation	Channel		131997	132322	132647	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1745	1777.5		
5M	QPSK	1	0	23.77	23.84	23.85	0	25.5
		1	12	24.21	24.05	23.90	0	25.5
		1	24	23.80	23.73	23.69	0	25.5
		12	0	23.00	22.97	22.91	1	24.5
		12	6	23.05	22.89	22.91	1	24.5
		12	13	23.10	22.97	22.85	1	24.5
		25	0	22.99	23.10	22.88	1	24.5
	16QAM	1	0	22.76	22.72	22.57	1	24.5
		1	12	22.98	22.92	22.78	1	24.5
		1	24	22.62	22.60	22.54	1	24.5
		12	0	21.92	21.88	21.81	2	23.5
		12	6	21.86	21.92	21.94	2	23.5
		12	13	21.91	22.01	21.91	2	23.5
		25	0	22.02	21.82	21.98	2	23.5
	64QAM	1	0	21.65	21.67	21.60	2	23.5
		1	12	21.95	21.96	22.11	2	23.5
		1	24	21.60	21.73	21.70	2	23.5
		12	0	20.83	20.83	20.72	3	22.5
		12	6	20.93	20.89	20.91	3	22.5
		12	13	20.96	20.79	20.83	3	22.5
		25	0	20.94	20.97	20.89	3	22.5
BW	Modulation	Channel		131987	132322	132657	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1745	1778.5		
3M	QPSK	1	0	23.88	23.89	23.71	0	25.5
		1	7	24.15	24.08	23.90	0	25.5
		1	14	23.84	23.71	23.73	0	25.5
		8	0	22.98	22.86	22.92	1	24.5
		8	3	23.00	23.00	22.94	1	24.5
		8	7	23.15	23.06	22.84	1	24.5
		15	0	22.88	23.04	22.95	1	24.5
	16QAM	1	0	22.64	22.77	22.71	1	24.5
		1	7	23.00	22.89	22.81	1	24.5
		1	14	22.68	22.55	22.56	1	24.5
		8	0	22.03	21.84	21.93	2	23.5
		8	3	21.87	21.90	21.96	2	23.5
		8	7	21.95	22.06	21.79	2	23.5
		15	0	22.07	21.82	21.95	2	23.5
	64QAM	1	0	21.65	21.73	21.58	2	23.5
		1	7	22.09	21.99	22.13	2	23.5
		1	14	21.59	21.65	21.64	2	23.5
		8	0	20.83	20.90	20.85	3	22.5
		8	3	20.89	20.86	20.93	3	22.5
		8	7	21.05	20.77	20.80	3	22.5
		15	0	20.95	20.91	20.78	3	22.5
BW	Modulation	Channel		131979	132322	132665	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1745	1779.3		
1.4M	QPSK	1	0	23.82	23.84	23.77	0	25.5
		1	2	24.17	24.25	24.12	0	25.5
		1	5	23.79	23.74	23.75	0	25.5
		3	0	23.93	23.91	23.91	0	25.5
		3	1	24.03	24.01	24.00	0	25.5
		3	3	24.05	23.93	23.78	0	25.5
		6	0	23.09	23.24	23.09	1	24.5
	16QAM	1	0	22.98	23.09	22.93	1	24.5
		1	2	23.30	23.22	23.26	1	24.5
		1	5	23.25	23.04	23.20	1	24.5
		3	0	23.01	22.89	22.90	1	24.5
		3	1	23.00	22.87	22.95	1	24.5
		3	3	22.91	22.93	22.77	1	24.5
		6	0	22.12	22.04	22.14	2	23.5
	64QAM	1	0	22.03	22.08	22.03	2	23.5
		1	2	22.35	22.30	22.32	2	23.5
		1	5	21.89	22.09	22.06	2	23.5
		3	0	21.89	21.92	21.82	2	23.5
		3	1	21.96	22.03	21.94	2	23.5
		3	3	22.03	21.94	21.74	2	23.5
		6	0	21.20	21.21	21.01	3	22.5

GSM&WCDMA DSI-1

Ant1

Band	GSM850				GSM1900			
Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8	
GSM	32.33	32.37	**32.43**	33.50	29.31	**29.32**	29.24	30.50
GPRS 1Tx Slot	32.26	32.33	**32.41**	33.50	29.30	**29.31**	29.20	30.50
GPRS 2Tx Slot	28.90	28.97	29.09	30.00	25.63	25.80	25.85	26.50
GPRS 3Tx Slot	27.43	27.51	27.63	28.50	23.80	24.01	24.14	25.00
GPRS 4Tx Slot	26.38	26.45	26.59	27.50	22.81	23.04	23.23	24.00
EDGE 1Tx Slot	26.97	27.15	27.04	28.00	25.67	25.91	25.89	27.00
EDGE 2Tx Slot	23.67	23.82	23.75	25.00	22.60	22.92	22.85	24.00
EDGE 3Tx Slot	21.98	22.11	22.03	23.00	20.84	21.10	21.07	22.00
EDGE 4Tx Slot	21.28	21.33	21.34	22.00	19.77	19.96	20.01	21.00

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)
Channel	128	189	251		512	661	810	
GSM	23.33	23.37	23.43	24.50	20.31	20.32	20.24	21.50
GPRS 1Tx Slot	23.26	23.33	23.41	24.50	20.30	20.31	20.20	21.50
GPRS 2Tx Slot	22.90	22.97	23.09	24.00	19.63	19.80	19.85	20.50
GPRS 3Tx Slot	23.17	23.25	23.37	24.24	19.54	19.75	19.88	20.74
GPRS 4Tx Slot	23.38	23.45	23.59	24.50	19.81	20.04	20.23	21.00
EDGE 1Tx Slot	17.97	18.15	18.04	19.00	16.67	16.91	16.89	18.00
EDGE 2Tx Slot	17.67	17.82	17.75	19.00	16.60	16.92	16.85	18.00
EDGE 3Tx Slot	17.72	17.85	17.77	18.74	16.58	16.84	16.81	17.74
EDGE 4Tx Slot	18.28	18.33	18.34	19.00	16.77	16.96	17.01	18.00

Band	WCDMA II			WCDMA II	WCDMA IV			WCDMA IV	WCDMA V			WCDMA V
TX Channel	9262	9400	9538	Max. Tune-up Power (dBm)	1312	1413	1513	Max. Tune-up Power (dBm)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	24.31	24.36	**24.46**	**25.50**	24.31	**24.34**	24.30	**25.50**	24.23	24.28	**24.29**	**25.50**
HSDPA Subtest-1	23.48	23.56	23.59	24.00	23.41	23.47	23.47	24.00	23.37	23.40	23.39	24.00
HSDPA Subtest-2	23.47	23.50	23.66	24.00	23.50	23.44	23.39	24.00	23.35	23.39	23.40	24.00
HSDPA Subtest-3	22.98	22.98	23.10	24.00	22.94	22.94	22.96	24.00	22.89	22.93	22.99	24.00
HSDPA Subtest-4	23.00	22.98	23.10	24.00	22.98	22.97	22.90	24.00	22.93	22.91	22.88	24.00
DC-HSDPA Subtest-1	23.42	23.51	23.65	24.00	23.41	23.52	23.47	24.00	23.35	23.38	23.39	24.00
DC-HSDPA Subtest-2	23.47	23.50	23.57	24.00	23.47	23.44	23.43	24.00	23.38	23.43	23.43	24.00
DC-HSDPA Subtest-3	23.00	23.02	23.12	24.00	22.98	22.97	22.93	24.00	22.86	22.95	22.90	24.00
DC-HSDPA Subtest-4	22.95	23.03	23.08	24.00	22.96	22.94	22.98	24.00	22.86	22.88	22.95	24.00
HSUPA Subtest-1	21.61	21.73	21.79	23.00	21.67	21.64	21.65	23.00	21.57	21.58	21.60	23.00
HSUPA Subtest-2	21.39	21.35	21.48	23.00	21.39	21.41	21.35	23.00	21.33	21.37	21.30	23.00
HSUPA Subtest-3	22.24	22.30	22.42	23.00	22.27	22.31	22.19	23.00	22.16	22.18	22.19	23.00
HSUPA Subtest-4	21.15	21.05	21.07	23.00	21.05	21.17	21.03	23.00	21.20	21.18	21.19	23.00
HSUPA Subtest-5	22.22	22.32	22.42	23.00	22.21	22.27	22.25	23.00	22.20	22.21	22.25	23.00
HSPA+ Subtest-1	21.58	21.57	21.73	23.00	21.53	21.55	21.50	23.00	21.44	21.52	21.50	23.00

GSM&WCDMA DSI-2

Ant1

Band	GSM850				GSM1900			
Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8	
GSM	32.33	32.37	**32.43**	33.50	29.31	**29.32**	29.24	30.50
GPRS 1Tx Slot	32.26	32.33	**32.41**	33.50	29.30	**29.31**	29.20	30.50
GPRS 2Tx Slot	28.90	28.97	29.09	30.00	25.63	25.80	25.85	26.50
GPRS 3Tx Slot	27.43	27.51	27.63	28.50	23.80	24.01	24.14	25.00
GPRS 4Tx Slot	26.38	26.45	26.59	27.50	22.81	23.04	23.23	24.00
EDGE 1Tx Slot	26.97	27.15	27.04	28.00	25.67	25.91	25.89	27.00
EDGE 2Tx Slot	23.67	23.82	23.75	25.00	22.60	22.92	22.85	24.00
EDGE 3Tx Slot	21.98	22.11	22.03	23.00	20.84	21.10	21.07	22.00
EDGE 4Tx Slot	21.28	21.33	21.34	22.00	19.77	19.96	20.01	21.00

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)
Channel	128	189	251		512	661	810	
GSM	23.33	23.37	23.43	24.50	20.31	20.32	20.24	21.50
GPRS 1Tx Slot	23.26	23.33	23.41	24.50	20.30	20.31	20.20	21.50
GPRS 2Tx Slot	22.90	22.97	23.09	24.00	19.63	19.80	19.85	20.50
GPRS 3Tx Slot	23.17	23.25	23.37	24.24	19.54	19.75	19.88	20.74
GPRS 4Tx Slot	23.38	23.45	23.59	24.50	19.81	20.04	20.23	21.00
EDGE 1Tx Slot	17.97	18.15	18.04	19.00	16.67	16.91	16.89	18.00
EDGE 2Tx Slot	17.67	17.82	17.75	19.00	16.60	16.92	16.85	18.00
EDGE 3Tx Slot	17.72	17.85	17.77	18.74	16.58	16.84	16.81	17.74
EDGE 4Tx Slot	18.28	18.33	18.34	19.00	16.77	16.96	17.01	18.00

Band	WCDMA II			WCDMA II	WCDMA IV			WCDMA IV	WCDMA V			WCDMA V
TX Channel	9262	9400	9538	Max. Tune-up Power (dBm)	1312	1413	1513	Max. Tune-up Power (dBm)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	23.71	23.82	**23.95**	**25.00**	24.31	**24.34**	24.30	**25.50**	24.23	24.28	**24.29**	**25.50**
HSDPA Subtest-1	22.95	23.07	23.19	23.50	23.41	23.47	23.47	24.00	23.37	23.40	23.39	24.00
HSDPA Subtest-2	23.03	23.04	23.13	23.50	23.50	23.44	23.39	24.00	23.35	23.39	23.40	24.00
HSDPA Subtest-3	22.57	22.56	22.66	23.50	22.94	22.94	22.96	24.00	22.89	22.93	22.99	24.00
HSDPA Subtest-4	22.59	22.49	22.65	23.50	22.98	22.97	22.90	24.00	22.93	22.91	22.88	24.00
DC-HSDPA Subtest-1	23.04	22.97	23.14	23.50	23.41	23.52	23.47	24.00	23.35	23.38	23.39	24.00
DC-HSDPA Subtest-2	22.93	23.08	23.08	23.50	23.47	23.44	23.43	24.00	23.38	23.43	23.43	24.00
DC-HSDPA Subtest-3	22.58	22.47	22.60	23.50	22.98	22.97	22.93	24.00	22.86	22.95	22.90	24.00
DC-HSDPA Subtest-4	22.42	22.55	22.62	23.50	22.96	22.94	22.98	24.00	22.86	22.88	22.95	24.00
HSUPA Subtest-1	21.09	21.26	21.29	22.50	21.67	21.64	21.65	23.00	21.57	21.58	21.60	23.00
HSUPA Subtest-2	20.97	20.89	21.05	22.50	21.39	21.41	21.35	23.00	21.33	21.37	21.30	23.00
HSUPA Subtest-3	21.71	21.80	21.89	22.50	22.27	22.31	22.19	23.00	22.16	22.18	22.19	23.00
HSUPA Subtest-4	20.73	20.57	20.59	22.50	21.05	21.17	21.03	23.00	21.20	21.18	21.19	23.00
HSUPA Subtest-5	21.72	21.92	21.99	22.50	22.21	22.27	22.25	23.00	22.20	22.21	22.25	23.00
HSPA+ Subtest-1	21.15	21.09	21.33	22.50	21.53	21.55	21.50	23.00	21.44	21.52	21.50	23.00

GSM&WCDMA DSI-3&4

Ant1

Band	GSM850				GSM1900			
Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8	
GSM	32.33	32.37	**32.43**	33.50	29.31	**29.32**	29.24	30.50
GPRS 1Tx Slot	32.26	32.33	**32.41**	33.50	29.30	**29.31**	29.20	30.50
GPRS 2Tx Slot	28.90	28.97	29.09	30.00	25.63	25.80	25.85	26.50
GPRS 3Tx Slot	27.43	27.51	27.63	28.50	23.80	24.01	24.14	25.00
GPRS 4Tx Slot	26.38	26.45	26.59	27.50	22.81	23.04	23.23	24.00
EDGE 1Tx Slot	26.97	27.15	27.04	28.00	25.67	25.91	25.89	27.00
EDGE 2Tx Slot	23.67	23.82	23.75	25.00	22.60	22.92	22.85	24.00
EDGE 3Tx Slot	21.98	22.11	22.03	23.00	20.84	21.10	21.07	22.00
EDGE 4Tx Slot	21.28	21.33	21.34	22.00	19.77	19.96	20.01	21.00

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)
Channel	128	189	251		512	661	810	
GSM	23.33	23.37	23.43	24.50	20.31	20.32	20.24	21.50
GPRS 1Tx Slot	23.26	23.33	23.41	24.50	20.30	20.31	20.20	21.50
GPRS 2Tx Slot	22.90	22.97	23.09	24.00	19.63	19.80	19.85	20.50
GPRS 3Tx Slot	23.17	23.25	23.37	24.24	19.54	19.75	19.88	20.74
GPRS 4Tx Slot	23.38	23.45	23.59	24.50	19.81	20.04	20.23	21.00
EDGE 1Tx Slot	17.97	18.15	18.04	19.00	16.67	16.91	16.89	18.00
EDGE 2Tx Slot	17.67	17.82	17.75	19.00	16.60	16.92	16.85	18.00
EDGE 3Tx Slot	17.72	17.85	17.77	18.74	16.58	16.84	16.81	17.74
EDGE 4Tx Slot	18.28	18.33	18.34	19.00	16.77	16.96	17.01	18.00

Band	WCDMA II			WCDMA II	WCDMA IV			WCDMA IV	WCDMA V			WCDMA V
TX Channel	9262	9400	9538	Max. Tune-up Power (dBm)	1312	1413	1513	Max. Tune-up Power (dBm)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	20.75	20.81	**20.89**	**22.00**	20.22	**20.25**	20.17	**21.50**	24.23	24.28	**24.29**	**25.50**
HSDPA Subtest-1	19.71	19.96	19.86	20.50	19.17	19.34	19.33	20.00	23.37	23.40	23.39	24.00
HSDPA Subtest-2	19.88	19.91	20.03	20.50	19.31	19.20	19.17	20.00	23.35	23.39	23.40	24.00
HSDPA Subtest-3	19.24	19.33	19.31	20.50	18.84	18.83	18.85	20.00	22.89	22.93	22.99	24.00
HSDPA Subtest-4	19.29	19.30	19.45	20.50	18.79	18.79	18.70	20.00	22.93	22.91	22.88	24.00
DC-HSDPA Subtest-1	19.75	19.90	20.03	20.50	19.23	19.29	19.38	20.00	23.35	23.38	23.39	24.00
DC-HSDPA Subtest-2	19.77	19.86	20.00	20.50	19.45	19.31	19.24	20.00	23.38	23.43	23.43	24.00
DC-HSDPA Subtest-3	19.32	19.38	19.58	20.50	18.73	18.72	18.78	20.00	22.86	22.95	22.90	24.00
DC-HSDPA Subtest-4	19.34	19.40	19.40	20.50	18.86	18.86	18.88	20.00	22.86	22.88	22.95	24.00
HSUPA Subtest-1	17.98	18.07	18.09	19.50	17.59	17.49	17.48	19.00	21.57	21.58	21.60	23.00
HSUPA Subtest-2	17.72	17.72	17.89	19.50	17.09	17.33	17.19	19.00	21.33	21.37	21.30	23.00
HSUPA Subtest-3	18.71	18.61	18.78	19.50	18.08	18.16	17.96	19.00	22.16	22.18	22.19	23.00
HSUPA Subtest-4	17.60	17.57	17.55	19.50	17.13	17.08	17.11	19.00	21.20	21.18	21.19	23.00
HSUPA Subtest-5	18.54	18.67	18.81	19.50	18.07	18.18	18.06	19.00	22.20	22.21	22.25	23.00
HSPA+ Subtest-1	17.95	17.91	18.02	19.50	17.38	17.38	17.32	19.00	21.44	21.52	21.50	23.00

LTE DSI-1
Ant1

LTE Band 2

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		18700	18900	19100	
		Frequency (MHz)		1860	1880	1900	
20M	QPSK	1	0	23.71	23.76	23.71	25.5
		1	50	**24.11**	24.10	24.04	25.5
		1	99	23.68	23.66	23.76	25.5
		50	0	23.04	23.02	23.02	24.5
		50	25	23.05	23.03	23.04	24.5
		50	50	23.02	23.01	22.88	24.5
		100	0	23.07	23.06	22.96	24.5
	16QAM	1	0	23.05	23.01	23.08	24.5
		1	50	23.37	23.45	23.29	24.5
		1	99	23.01	22.98	22.92	24.5
		50	0	22.00	22.13	22.05	23.5
		50	25	22.09	22.17	22.10	23.5
		50	50	22.07	22.11	21.93	23.5
		100	0	22.05	22.08	21.99	23.5
	64QAM	1	0	21.92	21.96	21.97	23.5
		1	50	22.30	22.31	22.33	23.5
		1	99	21.90	21.91	21.98	23.5
		50	0	20.99	21.11	21.05	22.5
		50	25	21.06	21.14	21.09	22.5
		50	50	21.08	21.09	21.00	22.5
		100	0	21.01	21.10	21.02	22.5
BW	Modulation	Channel		18675	18900	19125	Max. Tune-up (dBm)
		Frequency (MHz)		1857.5	1880	1902.5	
15M	QPSK	1	0	23.88	23.86	23.84	25.5
		1	37	24.17	24.12	23.83	25.5
		1	74	23.80	23.73	23.67	25.5
		36	0	23.07	22.98	22.89	24.5
		36	19	23.00	22.95	22.84	24.5
		36	39	23.11	22.97	22.83	24.5
		75	0	22.90	23.09	22.93	24.5
	16QAM	1	0	22.83	22.74	22.68	24.5
		1	37	22.99	22.83	22.80	24.5
		1	74	22.67	22.65	22.58	24.5
		36	0	21.91	21.84	21.82	23.5
		36	19	21.95	21.96	22.01	23.5
		36	39	21.97	22.00	21.79	23.5
		75	0	22.10	21.94	22.04	23.5
	64QAM	1	0	21.72	21.65	21.56	23.5
		1	37	21.95	21.91	22.04	23.5
		1	74	21.70	21.73	21.77	23.5
		36	0	20.86	20.79	20.84	22.5
		36	19	20.83	20.85	20.80	22.5
		36	39	21.07	20.86	20.93	22.5
		75	0	20.86	20.89	20.79	22.5
BW	Modulation	Channel		18650	18900	19150	Max. Tune-up (dBm)
		Frequency (MHz)		1855	1880	1905	
10M	QPSK	1	0	23.77	23.79	23.74	25.5
		1	24	24.23	24.02	23.87	25.5
		1	49	23.91	23.71	23.81	25.5
		25	0	23.10	22.92	22.89	24.5
		25	12	22.98	22.96	22.81	24.5
		25	25	23.12	22.98	22.86	24.5
		50	0	22.89	23.01	22.97	24.5
	16QAM	1	0	22.66	22.71	22.62	24.5
		1	24	23.00	22.82	22.79	24.5
		1	49	22.56	22.67	22.54	24.5
		25	0	21.91	21.80	21.93	23.5
		25	12	21.88	21.94	21.97	23.5
		25	25	22.00	22.04	21.83	23.5
		50	0	22.08	21.87	22.04	23.5
	64QAM	1	0	21.69	21.78	21.65	23.5
		1	24	22.09	21.88	22.13	23.5
		1	49	21.70	21.70	21.63	23.5
		25	0	20.91	20.79	20.76	22.5
		25	12	20.88	20.91	20.89	22.5
		25	25	21.06	20.85	20.88	22.5
		50	0	21.00	20.96	20.80	22.5
BW	Modulation	Channel		18625	18900	19175	Max. Tune-up (dBm)
		Frequency (MHz)		1852.5	1880	1907.5	
5M	QPSK	1	0	23.84	23.91	23.75	25.5
		1	12	24.18	24.05	23.83	25.5
		1	24	23.93	23.74	23.73	25.5
		12	0	23.08	22.95	22.91	24.5
		12	6	22.99	22.89	22.89	24.5
		12	13	23.06	22.99	22.91	24.5
		25	0	22.90	23.11	22.90	24.5
	16QAM	1	0	22.77	22.77	22.57	24.5
		1	12	22.94	22.85	22.83	24.5
		1	24	22.69	22.66	22.59	24.5
		12	0	21.96	21.94	21.82	23.5
		12	6	21.91	21.86	21.93	23.5
		12	13	21.99	22.09	21.88	23.5
		25	0	22.01	21.94	21.96	23.5
	64QAM	1	0	21.65	21.78	21.53	23.5
		1	12	22.00	21.90	22.11	23.5
		1	24	21.69	21.66	21.64	23.5
		12	0	20.87	20.89	20.78	22.5
		12	6	20.82	20.90	20.88	22.5
		12	13	20.96	20.84	20.93	22.5
		25	0	20.92	20.90	20.81	22.5
BW	Modulation	Channel		18615	18900	19185	Max. Tune-up (dBm)
		Frequency (MHz)		1851.5	1880	1908.5	
3M	QPSK	1	0	23.88	23.89	23.83	25.5
		1	7	24.23	24.04	23.84	25.5
		1	14	23.81	23.71	23.74	25.5
		8	0	23.06	22.96	23.02	24.5
		8	3	23.07	22.92	22.90	24.5
		8	7	23.16	22.99	22.81	24.5
		15	0	23.01	23.03	22.91	24.5
	16QAM	1	0	22.69	22.70	22.64	24.5
		1	7	23.01	22.82	22.72	24.5
		1	14	22.57	22.68	22.53	24.5
		8	0	22.00	21.94	21.91	23.5
		8	3	21.95	21.86	21.97	23.5
		8	7	21.97	22.10	21.87	23.5
		15	0	21.97	21.82	21.95	23.5
	64QAM	1	0	21.72	21.79	21.62	23.5
		1	7	22.00	21.90	22.10	23.5
		1	14	21.61	21.65	21.72	23.5
		8	0	20.94	20.88	20.74	22.5
		8	3	20.85	20.87	20.84	22.5
		8	7	21.01	20.88	20.92	22.5
		15	0	20.92	20.89	20.79	22.5
BW	Modulation	Channel		18607	18900	19193	Max. Tune-up (dBm)
		Frequency (MHz)		1850.7	1880	1909.3	
1.4M	QPSK	1	0	23.70	23.75	23.68	25.5
		1	2	24.05	23.97	24.01	25.5
		1	5	23.60	23.54	23.70	25.5
		3	0	23.75	23.73	23.76	25.5
		3	1	23.79	23.76	23.72	25.5
		3	3	23.69	23.76	23.57	25.5
		6	0	22.97	22.96	22.94	24.5
	16QAM	1	0	23.04	23.00	22.98	24.5
		1	2	23.26	23.36	23.21	24.5
		1	5	22.92	22.86	22.86	24.5
		3	0	22.79	22.81	22.80	24.5
		3	1	22.77	22.88	22.81	24.5
		3	3	22.74	22.88	22.66	24.5
		6	0	22.02	22.01	21.90	23.5
	64QAM	1	0	21.79	21.92	21.90	23.5
		1	2	22.27	22.22	22.19	23.5
		1	5	21.86	21.80	21.94	23.5
		3	0	21.72	21.84	21.83	23.5
		3	1	21.85	21.95	21.88	23.5
		3	3	21.82	21.84	21.80	23.5
		6	0	20.97	21.06	20.93	22.5

LTE Band 4

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20050	20175	20300	
		Frequency (MHz)		1720	1732.5	1745	
20M	QPSK	1	0	23.78	23.68	23.79	25.5
		1	50	24.11	24.15	**24.20**	25.5
		1	99	23.90	23.80	23.78	25.5
		50	0	23.23	23.18	23.21	24.5
		50	25	23.27	23.26	23.29	24.5
		50	50	23.26	23.23	23.20	24.5
		100	0	23.21	23.22	23.23	24.5
	16QAM	1	0	23.06	23.12	23.15	24.5
		1	50	23.44	23.47	23.48	24.5
		1	99	23.21	23.19	23.12	24.5
		50	0	22.22	22.18	22.22	23.5
		50	25	22.25	22.26	22.26	23.5
		50	50	22.24	22.24	22.21	23.5
		100	0	22.17	22.21	22.22	23.5
	64QAM	1	0	21.98	22.06	22.08	23.5
		1	50	22.36	22.44	22.43	23.5
		1	99	22.07	22.13	22.09	23.5
		50	0	21.13	21.17	21.18	22.5
		50	25	21.22	21.24	21.22	22.5
		50	50	21.18	21.23	21.19	22.5
		100	0	21.14	21.20	21.27	22.5
BW	Modulation	Channel		20025	20175	20325	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1732.5	1747.5	
15M	QPSK	1	0	23.88	23.86	23.71	25.5
		1	37	24.20	24.12	23.93	25.5
		1	74	23.90	23.62	23.68	25.5
		36	0	22.98	22.90	22.89	24.5
		36	19	23.04	22.87	22.82	24.5
		36	39	23.18	23.03	22.91	24.5
		75	0	23.00	23.00	22.94	24.5
	16QAM	1	0	22.77	22.76	22.61	24.5
		1	37	22.91	22.91	22.74	24.5
		1	74	22.67	22.55	22.50	24.5
		36	0	21.99	21.88	21.81	23.5
		36	19	21.82	21.92	21.90	23.5
		36	39	21.99	22.03	21.78	23.5
		75	0	22.10	21.89	21.97	23.5
	64QAM	1	0	21.66	21.75	21.58	23.5
		1	37	22.01	21.97	22.13	23.5
		1	74	21.72	21.72	21.74	23.5
		36	0	20.90	20.76	20.83	22.5
		36	19	20.91	20.92	20.90	22.5
		36	39	20.99	20.84	20.90	22.5
		75	0	20.90	20.92	20.77	22.5
BW	Modulation	Channel		20000	20175	20350	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1732.5	1750	
10M	QPSK	1	0	23.82	23.90	23.83	25.5
		1	24	24.20	24.04	23.82	25.5
		1	49	23.89	23.75	23.76	25.5
		25	0	23.06	22.88	22.90	24.5
		25	12	23.03	22.95	22.88	24.5
		25	25	23.16	23.02	22.93	24.5
		50	0	22.96	23.08	22.94	24.5
	16QAM	1	0	22.67	22.79	22.59	24.5
		1	24	22.91	22.90	22.82	24.5
		1	49	22.61	22.64	22.62	24.5
		25	0	21.98	21.90	21.85	23.5
		25	12	21.89	21.95	21.95	23.5
		25	25	21.97	21.98	21.88	23.5
		50	0	22.05	21.88	21.94	23.5
	64QAM	1	0	21.73	21.68	21.62	23.5
		1	24	22.08	21.99	22.09	23.5
		1	49	21.71	21.71	21.71	23.5
		25	0	20.80	20.88	20.75	22.5
		25	12	20.94	20.87	20.85	22.5
		25	25	20.97	20.88	20.83	22.5
		50	0	20.92	20.98	20.79	22.5
BW	Modulation	Channel		19975	20175	20375	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1732.5	1752.5	
5M	QPSK	1	0	23.88	23.80	23.82	25.5
		1	12	24.21	24.06	23.92	25.5
		1	24	23.93	23.76	23.79	25.5
		12	0	23.03	22.85	22.99	24.5
		12	6	23.06	22.95	22.86	24.5
		12	13	23.09	23.09	22.84	24.5
		25	0	22.97	23.04	22.83	24.5
	16QAM	1	0	22.74	22.70	22.70	24.5
		1	12	22.94	22.84	22.72	24.5
		1	24	22.68	22.66	22.58	24.5
		12	0	22.03	21.91	21.84	23.5
		12	6	21.87	21.94	21.91	23.5
		12	13	21.90	21.98	21.82	23.5
		25	0	22.09	21.86	21.94	23.5
	64QAM	1	0	21.63	21.70	21.55	23.5
		1	12	21.99	21.95	22.01	23.5
		1	24	21.70	21.60	21.68	23.5
		12	0	20.83	20.82	20.73	22.5
		12	6	20.82	20.88	20.88	22.5
		12	13	21.02	20.86	20.92	22.5
		25	0	21.00	20.98	20.86	22.5
BW	Modulation	Channel		19965	20175	20385	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1732.5	1753.5	
3M	QPSK	1	0	23.88	23.79	23.82	25.5
		1	7	24.25	24.13	23.86	25.5
		1	14	23.90	23.64	23.72	25.5
		8	0	23.10	22.95	23.01	24.5
		8	3	22.99	22.87	22.88	24.5
		8	7	23.09	23.03	22.94	24.5
		15	0	23.02	22.98	22.84	24.5
	16QAM	1	0	22.68	22.80	22.58	24.5
		1	7	22.94	22.82	22.71	24.5
		1	14	22.58	22.67	22.49	24.5
		8	0	22.00	21.87	21.94	23.5
		8	3	21.86	21.83	21.93	23.5
		8	7	22.00	22.10	21.85	23.5
		15	0	22.05	21.94	22.04	23.5
	64QAM	1	0	21.62	21.78	21.65	23.5
		1	7	21.99	21.98	22.09	23.5
		1	14	21.73	21.70	21.71	23.5
		8	0	20.80	20.84	20.76	22.5
		8	3	20.83	20.82	20.89	22.5
		8	7	20.98	20.84	20.89	22.5
		15	0	20.86	20.97	20.80	22.5
BW	Modulation	Channel		19957	20175	20393	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1732.5	1754.3	
1.4M	QPSK	1	0	23.69	23.56	23.74	25.5
		1	2	24.01	24.05	24.15	25.5
		1	5	23.81	23.65	23.77	25.5
		3	0	23.96	23.95	23.89	25.5
		3	1	24.07	24.05	24.01	25.5
		3	3	24.06	24.04	23.91	25.5
		6	0	23.15	23.08	23.16	24.5
	16QAM	1	0	23.05	23.04	23.10	24.5
		1	2	23.33	23.45	23.43	24.5
		1	5	23.08	23.17	23.04	24.5
		3	0	22.91	22.89	22.91	24.5
		3	1	22.93	22.96	22.93	24.5
		3	3	23.03	23.04	22.89	24.5
		6	0	22.10	22.14	22.20	23.5
	64QAM	1	0	21.97	21.95	22.01	23.5
		1	2	22.29	22.39	22.29	23.5
		1	5	21.94	22.00	22.06	23.5
		3	0	21.87	21.92	21.94	23.5
		3	1	22.00	22.05	21.95	23.5
		3	3	21.86	22.03	21.95	23.5
		6	0	21.08	21.16	21.24	22.5

LTE Band 5

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20450	20525	20600	
		Frequency (MHz)		829	836.5	844	
10M	QPSK	1	0	24.23	24.35	24.32	25.5
		1	24	24.39	24.43	**24.44**	25.5
		1	49	24.25	24.27	24.34	25.5
		25	0	23.30	23.40	23.28	24.5
		25	12	23.32	23.41	23.43	24.5
		25	25	23.27	23.39	23.40	24.5
		50	0	23.29	23.35	23.36	24.5
	16QAM	1	0	23.50	23.55	23.56	24.5
		1	24	23.73	23.61	23.65	24.5
		1	49	23.53	23.54	23.55	24.5
		25	0	22.41	22.50	22.37	23.5
		25	12	22.38	22.43	22.47	23.5
		25	25	22.33	22.50	22.45	23.5
		50	0	22.37	22.48	22.41	23.5
	64QAM	1	0	22.46	22.62	22.50	23.5
		1	24	22.61	22.61	22.68	23.5
		1	49	22.49	22.46	22.56	23.5
		25	0	21.35	21.48	21.32	22.5
		25	12	21.37	21.42	21.39	22.5
		25	25	21.31	21.44	21.38	22.5
		50	0	21.33	21.47	21.35	22.5
BW	Modulation	Channel		20425	20525	20625	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5	
5M	QPSK	1	0	24.09	24.23	24.24	25.5
		1	12	24.38	24.40	24.33	25.5
		1	24	24.15	24.19	24.22	25.5
		12	0	23.15	23.36	23.21	24.5
		12	6	23.22	23.38	23.30	24.5
		12	13	23.25	23.36	23.29	24.5
		25	0	23.14	23.31	23.31	24.5
	16QAM	1	0	23.48	23.52	23.43	24.5
		1	12	23.72	23.60	23.50	24.5
		1	24	23.40	23.39	23.51	24.5
		12	0	22.40	22.45	22.24	23.5
		12	6	22.29	22.40	22.39	23.5
		12	13	22.32	22.36	22.30	23.5
		25	0	22.24	22.47	22.31	23.5
	64QAM	1	0	22.45	22.54	22.44	23.5
		1	12	22.47	22.49	22.53	23.5
		1	24	22.44	22.43	22.53	23.5
		12	0	21.28	21.47	21.31	22.5
		12	6	21.26	21.35	21.36	22.5
		12	13	21.29	21.38	21.34	22.5
		25	0	21.20	21.46	21.29	22.5
BW	Modulation	Channel		20415	20525	20635	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5	
3M	QPSK	1	0	24.18	24.25	24.29	25.5
		1	7	24.38	24.41	24.30	25.5
		1	14	24.23	24.17	24.28	25.5
		8	0	23.25	23.29	23.23	24.5
		8	3	23.23	23.39	23.39	24.5
		8	7	23.19	23.36	23.37	24.5
		15	0	23.22	23.21	23.32	24.5
	16QAM	1	0	23.49	23.54	23.44	24.5
		1	7	23.65	23.57	23.50	24.5
		1	14	23.43	23.46	23.47	24.5
		8	0	22.27	22.45	22.30	23.5
		8	3	22.30	22.41	22.34	23.5
		8	7	22.18	22.46	22.30	23.5
		15	0	22.23	22.37	22.36	23.5
	64QAM	1	0	22.37	22.55	22.46	23.5
		1	7	22.52	22.46	22.65	23.5
		1	14	22.38	22.45	22.50	23.5
		8	0	21.22	21.40	21.30	22.5
		8	3	21.30	21.34	21.37	22.5
		8	7	21.29	21.39	21.24	22.5
		15	0	21.27	21.37	21.27	22.5
BW	Modulation	Channel		20407	20525	20643	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3	
1.4M	QPSK	1	0	24.15	24.34	24.24	25.5
		1	2	24.38	24.30	24.41	25.5
		1	5	24.24	24.17	24.29	25.5
		3	0	24.21	24.38	24.18	25.5
		3	1	24.26	24.32	24.32	25.5
		3	3	24.23	24.27	24.25	25.5
		6	0	23.21	23.22	23.30	24.5
	16QAM	1	0	23.45	23.50	23.55	24.5
		1	2	23.68	23.46	23.55	24.5
		1	5	23.50	23.51	23.48	24.5
		3	0	23.31	23.48	23.26	24.5
		3	1	23.25	23.33	23.42	24.5
		3	3	23.24	23.46	23.43	24.5
		6	0	22.22	22.47	22.33	23.5
	64QAM	1	0	22.42	22.52	22.43	23.5
		1	2	22.58	22.57	22.58	23.5
		1	5	22.38	22.31	22.44	23.5
		3	0	22.23	22.39	22.20	23.5
		3	1	22.31	22.41	22.36	23.5
		3	3	22.18	22.39	22.37	23.5
		6	0	21.26	21.37	21.21	22.5

LTE Band 7

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20850	21100	21350	
		Frequency (MHz)		2510	2535	2560	
20M	QPSK	1	0	23.89	23.81	23.80	25
		1	50	24.18	24.02	24.10	25
		1	99	23.73	23.70	23.67	25
		50	0	23.20	23.11	23.07	24
		50	25	23.23	23.13	23.11	24
		50	50	23.22	22.98	23.01	24
		100	0	23.18	23.02	23.00	24
	16QAM	1	0	23.11	23.10	23.08	24
		1	50	23.34	23.27	23.31	24
		1	99	23.03	22.87	22.91	24
		50	0	22.21	22.10	22.07	23
		50	25	22.20	22.12	22.06	23
		50	50	22.17	21.98	22.00	23
		100	0	22.15	22.00	21.98	23
	64QAM	1	0	22.20	22.01	22.02	23
		1	50	22.37	22.19	22.32	23
		1	99	21.94	21.92	21.76	23
		50	0	21.19	20.97	21.05	22
		50	25	21.17	21.09	21.04	22
		50	50	21.14	20.96	20.93	22
		100	0	21.13	20.98	20.99	22
BW	Modulation	Channel		20825	21100	21375	Max. Tune-up (dBm)
		Frequency (MHz)		2507.5	2535	2562.5	
15M	QPSK	1	0	23.81	23.80	23.68	25
		1	37	24.15	23.91	24.09	25
		1	74	23.70	23.57	23.62	25
		36	0	23.14	23.02	22.99	24
		36	19	23.17	23.01	23.01	24
		36	39	23.19	22.83	22.91	24
		75	0	23.09	22.90	22.94	24
	16QAM	1	0	22.99	22.95	23.00	24
		1	37	23.28	23.23	23.29	24
		1	74	22.96	22.84	22.79	24
		36	0	22.10	22.05	22.06	23
		36	19	22.09	22.00	21.92	23
		36	39	22.10	21.85	21.93	23
		75	0	22.02	21.91	21.86	23
	64QAM	1	0	22.08	21.91	21.88	23
		1	37	22.28	22.14	22.30	23
		1	74	21.84	21.78	21.68	23
		36	0	21.13	20.91	21.03	22
		36	19	21.16	20.98	21.02	22
		36	39	21.08	20.82	20.83	22
		75	0	21.00	20.95	20.93	22
BW	Modulation	Channel		20800	21100	21400	Max. Tune-up (dBm)
		Frequency (MHz)		2505	2535	2565	
10M	QPSK	1	0	23.85	23.70	23.74	25
		1	24	24.12	23.95	24.02	25
		1	49	23.63	23.62	23.59	25
		25	0	23.21	22.99	23.01	24
		25	12	23.16	23.05	23.05	24
		25	25	23.13	22.90	22.97	24
		50	0	23.04	22.93	22.91	24
	16QAM	1	0	23.09	23.05	23.01	24
		1	24	23.31	23.24	23.29	24
		1	49	22.96	22.73	22.82	24
		25	0	22.06	21.96	22.00	23
		25	12	22.11	22.02	21.93	23
		25	25	22.05	21.91	21.93	23
		50	0	22.09	21.85	21.97	23
	64QAM	1	0	22.12	22.00	21.99	23
		1	24	22.29	22.12	22.18	23
		1	49	21.84	21.83	21.71	23
		25	0	21.16	20.84	20.98	22
		25	12	21.10	20.99	20.91	22
		25	25	21.08	20.82	20.81	22
		50	0	21.07	20.84	20.94	22
BW	Modulation	Channel		20775	21100	21425	Max. Tune-up (dBm)
		Frequency (MHz)		2502.5	2535	2567.5	
5M	QPSK	1	0	23.82	23.72	23.78	25
		1	12	24.09	23.95	24.04	25
		1	24	23.69	23.55	23.54	25
		12	0	23.22	23.06	23.02	24
		12	6	23.06	23.07	23.03	24
		12	13	23.09	22.87	22.86	24
		25	0	23.04	23.00	22.86	24
	16QAM	1	0	23.08	22.95	23.05	24
		1	12	23.31	23.12	23.25	24
		1	24	22.93	22.75	22.86	24
		12	0	22.19	22.03	21.92	23
		12	6	22.13	22.05	21.93	23
		12	13	22.11	21.83	21.96	23
		25	0	22.10	21.88	21.93	23
	64QAM	1	0	22.07	21.86	21.97	23
		1	12	22.31	22.10	22.25	23
		1	24	21.91	21.77	21.69	23
		12	0	21.18	20.93	20.92	22
		12	6	21.09	21.02	21.00	22
		12	13	20.99	20.84	20.92	22
		25	0	21.12	20.95	20.91	22

LTE Band 38

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		37850	38000	38150	
		Frequency (MHz)		2580	2595	2610	
20M	QPSK	1	0	23.72	23.85	23.84	25
		1	50	23.97	24.03	24.01	25
		1	99	23.75	23.76	23.80	25
		50	0	22.82	22.94	22.93	24
		50	25	22.84	22.96	22.94	24
		50	50	22.81	22.82	22.81	24
		100	0	22.93	22.95	22.94	24
	16QAM	1	0	22.76	22.79	22.81	24
		1	50	23.07	23.09	23.11	24
		1	99	22.72	22.69	22.71	24
		50	0	21.90	21.96	22.03	23
		50	25	21.94	21.99	21.98	23
		50	50	21.91	21.88	21.85	23
		100	0	21.93	21.97	21.97	23
	64QAM	1	0	21.73	21.79	21.68	23
		1	50	21.79	21.80	21.83	23
		1	99	21.66	21.69	21.73	23
		50	0	20.82	20.95	20.97	22
		50	25	20.88	20.96	20.96	22
		50	50	20.84	20.82	20.78	22
		100	0	20.84	20.91	20.95	22
BW	Modulation	Channel		37825	38000	38175	Max. Tune-up (dBm)
		Frequency (MHz)		2577.5	2595	2612.5	
15M	QPSK	1	0	23.69	23.76	23.70	25
		1	37	23.99	23.99	23.91	25
		1	74	23.60	23.73	23.73	25
		36	0	22.75	22.81	22.85	24
		36	19	22.82	22.84	22.81	24
		36	39	22.74	22.73	22.75	24
		75	0	22.92	22.84	22.81	24
	16QAM	1	0	22.63	22.75	22.70	24
		1	37	22.98	22.95	23.08	24
		1	74	22.68	22.60	22.66	24
		36	0	21.75	21.89	21.99	23
		36	19	21.92	21.95	21.90	23
		36	39	21.84	21.82	21.82	23
		75	0	21.87	21.89	21.94	23
	64QAM	1	0	21.65	21.77	21.67	23
		1	37	21.64	21.66	21.76	23
		1	74	21.53	21.56	21.62	23
		36	0	20.79	20.94	20.96	22
		36	19	20.85	20.82	20.92	22
		36	39	20.75	20.78	20.73	22
		75	0	20.72	20.90	20.91	22
BW	Modulation	Channel		37800	38000	38200	Max. Tune-up (dBm)
		Frequency (MHz)		2575	2595	2615	
10M	QPSK	1	0	23.62	23.81	23.69	25
		1	24	23.93	23.92	23.96	25
		1	49	23.72	23.70	23.73	25
		25	0	22.79	22.93	22.89	24
		25	12	22.69	22.94	22.80	24
		25	25	22.73	22.75	22.75	24
		50	0	22.90	22.84	22.85	24
	16QAM	1	0	22.66	22.70	22.69	24
		1	24	22.94	23.06	23.03	24
		1	49	22.57	22.66	22.56	24
		25	0	21.75	21.87	21.90	23
		25	12	21.80	21.95	21.88	23
		25	25	21.81	21.73	21.72	23
		50	0	21.87	21.90	21.88	23
	64QAM	1	0	21.65	21.69	21.60	23
		1	24	21.67	21.77	21.75	23
		1	49	21.52	21.65	21.68	23
		25	0	20.68	20.82	20.94	22
		25	12	20.82	20.82	20.82	22
		25	25	20.83	20.71	20.76	22
		50	0	20.76	20.78	20.93	22
BW	Modulation	Channel		37775	38000	38225	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5	
5M	QPSK	1	0	23.71	23.70	23.70	25
		1	12	24.00	23.90	23.86	25
		1	24	23.66	23.67	23.73	25
		12	0	22.74	22.88	22.91	24
		12	6	22.80	22.86	22.86	24
		12	13	22.68	22.74	22.72	24
		25	0	22.84	22.85	22.93	24
	16QAM	1	0	22.64	22.75	22.66	24
		1	12	23.04	22.99	22.97	24
		1	24	22.59	22.58	22.57	24
		12	0	21.89	21.87	21.99	23
		12	6	21.92	21.92	21.87	23
		12	13	21.77	21.81	21.70	23
		25	0	21.83	21.87	21.93	23
	64QAM	1	0	21.64	21.64	21.64	23
		1	12	21.75	21.70	21.74	23
		1	24	21.51	21.55	21.63	23
		12	0	20.81	20.90	20.94	22
		12	6	20.75	20.95	20.87	22
		12	13	20.70	20.76	20.66	22
		25	0	20.72	20.90	20.91	22

LTE Band 41 (2496 ~ 2690MHz)

BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	Max. Tune-up (dBm)
		Channel		39750	40185	40620	41055	41490	
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680	
20M	QPSK	1	0	23.70	23.57	23.64	23.57	23.34	25
		1	50	23.96	23.80	23.94	23.91	23.49	25
		1	99	23.56	23.46	23.58	23.52	23.44	25
		50	0	22.79	22.68	22.79	22.69	22.65	24
		50	25	22.86	22.71	22.81	22.71	22.67	24
		50	50	22.82	22.67	22.76	22.67	22.66	24
		100	0	22.89	22.74	22.86	22.84	22.77	24
	16QAM	1	0	22.75	22.66	22.75	22.61	22.29	24
		1	50	22.99	22.87	23.02	22.99	22.54	24
		1	99	22.64	22.57	22.66	22.54	22.51	24
		50	0	21.84	21.78	21.90	21.76	21.70	23
		50	25	21.88	21.91	21.92	21.77	21.77	23
		50	50	21.88	21.82	21.85	21.83	21.76	23
		100	0	21.93	21.78	21.90	21.88	21.75	23
	64QAM	1	0	21.35	21.24	21.34	21.23	21.30	23
		1	50	21.62	21.47	21.57	21.45	21.50	23
		1	99	21.23	21.28	21.22	21.21	21.22	23
		50	0	20.77	20.75	20.85	20.77	20.67	22
		50	25	20.84	20.83	20.88	20.82	20.71	22
		50	50	20.79	20.68	20.81	20.72	20.67	22
		100	0	20.88	20.75	20.90	20.86	20.74	22
BW	Modulation	Channel		39725	40173	40620	41068	41515	Max. Tune-up (dBm)
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5	
15M	QPSK	1	0	23.55	23.49	23.50	23.42	23.23	25
		1	37	23.84	23.75	23.83	23.87	23.38	25
		1	74	23.45	23.41	23.46	23.43	23.40	25
		36	0	22.64	22.54	22.67	22.57	22.51	24
		36	19	22.80	22.56	22.70	22.67	22.60	24
		36	39	22.68	22.61	22.73	22.66	22.57	24
		75	0	22.87	22.59	22.71	22.78	22.64	24
	16QAM	1	0	22.72	22.59	22.64	22.56	22.14	24
		1	37	22.93	22.81	23.01	22.92	22.44	24
		1	74	22.62	22.42	22.55	22.51	22.37	24
		36	0	21.81	21.71	21.83	21.62	21.65	23
		36	19	21.85	21.83	21.79	21.74	21.64	23
		36	39	21.73	21.70	21.79	21.72	21.70	23
		75	0	21.87	21.76	21.83	21.78	21.69	23
	64QAM	1	0	21.20	21.17	21.31	21.08	21.15	23
		1	37	21.57	21.32	21.56	21.44	21.49	23
		1	74	21.19	21.25	21.17	21.17	21.19	23
		36	0	20.73	20.60	20.73	20.70	20.60	22
		36	19	20.77	20.68	20.80	20.73	20.70	22
		36	39	20.69	20.61	20.69	20.60	20.56	22
		75	0	20.75	20.67	20.80	20.79	20.60	22
BW	Modulation	Channel		39700	40160	40620	41080	41540	Max. Tune-up (dBm)
		Frequency (MHz)		2501	2547	2593	2639	2685	
10M	QPSK	1	0	23.67	23.52	23.49	23.48	23.30	25
		1	24	23.93	23.69	23.85	23.85	23.40	25
		1	49	23.51	23.43	23.56	23.45	23.35	25
		25	0	22.69	22.56	22.74	22.54	22.55	24
		25	12	22.82	22.58	22.67	22.66	22.53	24
		25	25	22.70	22.62	22.71	22.65	22.61	24
		50	0	22.82	22.66	22.79	22.75	22.75	24
	16QAM	1	0	22.69	22.54	22.60	22.52	22.23	24
		1	24	22.89	22.84	22.97	22.85	22.48	24
		1	49	22.49	22.56	22.57	22.43	22.45	24
		25	0	21.71	21.76	21.82	21.69	21.58	23
		25	12	21.82	21.77	21.83	21.75	21.72	23
		25	25	21.83	21.70	21.74	21.79	21.69	23
		50	0	21.88	21.71	21.77	21.83	21.72	23
	64QAM	1	0	21.28	21.11	21.30	21.12	21.29	23
		1	24	21.54	21.40	21.48	21.38	21.49	23
		1	49	21.11	21.24	21.16	21.19	21.08	23
		25	0	20.73	20.71	20.81	20.69	20.64	22
		25	12	20.75	20.79	20.87	20.67	20.56	22
		25	25	20.67	20.53	20.74	20.64	20.62	22
		50	0	20.75	20.70	20.81	20.77	20.69	22
BW	Modulation	Channel		39675	40148	40620	41093	41565	Max. Tune-up (dBm)
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5	
5M	QPSK	1	0	23.59	23.50	23.51	23.51	23.25	25
		1	12	23.94	23.72	23.91	23.86	23.38	25
		1	24	23.49	23.34	23.51	23.38	23.35	25
		12	0	22.64	22.62	22.67	22.65	22.53	24
		12	6	22.84	22.57	22.68	22.65	22.53	24
		12	13	22.70	22.66	22.61	22.66	22.51	24
		25	0	22.75	22.70	22.71	22.70	22.66	24
	16QAM	1	0	22.62	22.65	22.70	22.56	22.20	24
		1	12	22.90	22.86	22.93	22.93	22.44	24
		1	24	22.61	22.44	22.55	22.41	22.48	24
		12	0	21.79	21.67	21.83	21.65	21.62	23
		12	6	21.80	21.90	21.80	21.68	21.68	23
		12	13	21.80	21.76	21.71	21.81	21.63	23
		25	0	21.80	21.66	21.77	21.82	21.73	23
	64QAM	1	0	21.24	21.22	21.28	21.20	21.27	23
		1	12	21.56	21.40	21.48	21.44	21.49	23
		1	24	21.21	21.23	21.09	21.18	21.09	23
		12	0	20.71	20.63	20.73	20.72	20.62	22
		12	6	20.76	20.73	20.78	20.78	20.67	22
		12	13	20.65	20.59	20.80	20.60	20.55	22
		25	0	20.78	20.60	20.82	20.85	20.66	22

LTE Band 66

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		132072	132322	132572	
		Frequency (MHz)		1720	1745	1770	
20M	QPSK	1	0	23.87	23.88	23.78	25.5
		1	50	24.24	24.26	24.22	25.5
		1	99	23.88	23.89	23.86	25.5
		50	0	23.25	23.24	23.25	24.5
		50	25	23.28	23.29	23.26	24.5
		50	50	23.27	23.19	23.13	24.5
		100	0	23.21	23.28	23.16	24.5
	16QAM	1	0	23.07	23.17	23.08	24.5
		1	50	23.34	23.35	23.32	24.5
		1	99	23.31	23.05	23.23	24.5
		50	0	22.22	22.24	22.24	23.5
		50	25	22.27	22.19	22.23	23.5
		50	50	22.26	22.20	22.12	23.5
		100	0	22.24	22.19	22.15	23.5
	64QAM	1	0	22.14	22.10	22.05	23.5
		1	50	22.44	22.45	22.41	23.5
		1	99	22.02	22.12	22.10	23.5
		50	0	21.16	21.19	21.13	22.5
		50	25	21.20	21.27	21.22	22.5
		50	50	21.26	21.22	21.09	22.5
		100	0	21.23	21.26	21.14	22.5
BW	Modulation	Channel		132047	132322	132597	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1745	1772.5	
15M	QPSK	1	0	23.87	23.83	23.72	25.5
		1	37	24.12	24.10	23.84	25.5
		1	74	23.85	23.64	23.70	25.5
		36	0	23.06	22.87	22.94	24.5
		36	19	22.93	23.00	22.83	24.5
		36	39	23.14	23.04	22.95	24.5
		75	0	23.01	23.03	22.87	24.5
	16QAM	1	0	22.64	22.72	22.70	24.5
		1	37	22.92	22.85	22.75	24.5
		1	74	22.63	22.64	22.60	24.5
		36	0	22.03	21.80	21.92	23.5
		36	19	21.88	21.85	21.96	23.5
		36	39	21.92	22.06	21.83	23.5
		75	0	21.97	21.94	21.95	23.5
	64QAM	1	0	21.70	21.77	21.61	23.5
		1	37	22.00	21.98	22.06	23.5
		1	74	21.59	21.64	21.67	23.5
		36	0	20.89	20.86	20.78	22.5
		36	19	20.94	20.92	20.89	22.5
		36	39	21.07	20.83	20.91	22.5
		75	0	20.97	20.87	20.86	22.5
BW	Modulation	Channel		132022	132322	132622	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1745	1775	
10M	QPSK	1	0	23.86	23.87	23.73	25.5
		1	24	24.18	24.14	23.90	25.5
		1	49	23.83	23.68	23.72	25.5
		25	0	23.05	22.85	23.00	24.5
		25	12	23.04	22.97	22.87	24.5
		25	25	23.18	23.02	22.84	24.5
		50	0	22.99	23.02	22.89	24.5
	16QAM	1	0	22.69	22.67	22.63	24.5
		1	24	22.92	22.93	22.83	24.5
		1	49	22.68	22.58	22.54	24.5
		25	0	21.95	21.80	21.93	23.5
		25	12	21.84	21.84	21.90	23.5
		25	25	21.98	22.03	21.91	23.5
		50	0	22.05	21.90	22.05	23.5
	64QAM	1	0	21.64	21.79	21.57	23.5
		1	24	21.96	21.87	22.12	23.5
		1	49	21.61	21.64	21.67	23.5
		25	0	20.84	20.89	20.75	22.5
		25	12	20.91	20.94	20.81	22.5
		25	25	21.01	20.85	20.82	22.5
		50	0	20.98	20.94	20.86	22.5
BW	Modulation	Channel		131997	132322	132647	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1745	1777.5	
5M	QPSK	1	0	23.77	23.84	23.85	25.5
		1	12	24.21	24.05	23.90	25.5
		1	24	23.80	23.73	23.69	25.5
		12	0	23.00	22.97	22.91	24.5
		12	6	23.05	22.89	22.91	24.5
		12	13	23.10	22.97	22.85	24.5
		25	0	22.99	23.10	22.88	24.5
	16QAM	1	0	22.76	22.72	22.57	24.5
		1	12	22.98	22.92	22.78	24.5
		1	24	22.62	22.60	22.54	24.5
		12	0	21.92	21.88	21.81	23.5
		12	6	21.86	21.92	21.94	23.5
		12	13	21.91	22.01	21.91	23.5
		25	0	22.02	21.82	21.98	23.5
	64QAM	1	0	21.65	21.67	21.60	23.5
		1	12	21.95	21.96	22.11	23.5
		1	24	21.60	21.73	21.70	23.5
		12	0	20.83	20.83	20.72	22.5
		12	6	20.93	20.89	20.91	22.5
		12	13	20.96	20.79	20.83	22.5
		25	0	20.94	20.97	20.89	22.5
BW	Modulation	Channel		131987	132322	132657	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1745	1778.5	
3M	QPSK	1	0	23.88	23.89	23.71	25.5
		1	7	24.15	24.08	23.90	25.5
		1	14	23.84	23.71	23.73	25.5
		8	0	22.98	22.86	22.92	24.5
		8	3	23.00	23.00	22.94	24.5
		8	7	23.15	23.06	22.84	24.5
		15	0	22.88	23.04	22.95	24.5
	16QAM	1	0	22.64	22.77	22.71	24.5
		1	7	23.00	22.89	22.81	24.5
		1	14	22.68	22.55	22.56	24.5
		8	0	22.03	21.84	21.93	23.5
		8	3	21.87	21.90	21.96	23.5
		8	7	21.95	22.06	21.79	23.5
		15	0	22.07	21.82	21.95	23.5
	64QAM	1	0	21.65	21.73	21.58	23.5
		1	7	22.09	21.99	22.13	23.5
		1	14	21.59	21.65	21.64	23.5
		8	0	20.83	20.90	20.85	22.5
		8	3	20.89	20.86	20.93	22.5
		8	7	21.05	20.77	20.80	22.5
		15	0	20.95	20.91	20.78	22.5
BW	Modulation	Channel		131979	132322	132665	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1745	1779.3	
1.4M	QPSK	1	0	23.82	23.84	23.77	25.5
		1	2	24.17	24.25	24.12	25.5
		1	5	23.79	23.74	23.75	25.5
		3	0	23.93	23.91	23.91	25.5
		3	1	24.03	24.01	24.00	25.5
		3	3	24.05	23.93	23.78	25.5
		6	0	23.09	23.24	23.09	24.5
	16QAM	1	0	22.98	23.09	22.93	24.5
		1	2	23.30	23.22	23.26	24.5
		1	5	23.25	23.04	23.20	24.5
		3	0	23.01	22.89	22.90	24.5
		3	1	23.00	22.87	22.95	24.5
		3	3	22.91	22.93	22.77	24.5
		6	0	22.12	22.04	22.14	23.5
	64QAM	1	0	22.03	22.08	22.03	23.5
		1	2	22.35	22.30	22.32	23.5
		1	5	21.89	22.09	22.06	23.5
		3	0	21.89	21.92	21.82	23.5
		3	1	21.96	22.03	21.94	23.5
		3	3	22.03	21.94	21.74	23.5
		6	0	21.20	21.21	21.01	22.5

LTE DSI-2
Ant1

LTE Band 2

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		18700	18900	19100	
		Frequency (MHz)		1860	1880	1900	
20M	QPSK	1	0	23.38	23.42	23.33	25
		1	50	**23.50**	23.44	23.43	25
		1	99	23.23	23.42	23.18	25
		50	0	22.79	22.81	22.83	24.5
		50	25	22.89	22.83	22.85	24.5
		50	50	22.82	22.71	22.76	24.5
		100	0	22.91	22.80	22.87	24.5
	16QAM	1	0	22.78	22.90	22.82	24.5
		1	50	23.16	23.34	23.12	24.5
		1	99	22.90	22.73	22.88	24.5
		50	0	21.85	21.94	21.85	23.5
		50	25	21.83	22.04	21.90	23.5
		50	50	21.91	21.92	21.67	23.5
		100	0	21.90	21.86	21.84	23.5
	64QAM	1	0	21.76	21.79	21.74	23.5
		1	50	22.18	22.02	22.12	23.5
		1	99	21.79	21.75	21.83	23.5
		50	0	20.97	20.92	20.87	22.5
		50	25	20.91	21.02	21.03	22.5
		50	50	20.92	20.89	20.86	22.5
		100	0	20.81	20.97	20.84	22.5
BW	Modulation	Channel		18675	18900	19125	Max. Tune-up (dBm)
		Frequency (MHz)		1857.5	1880	1902.5	
15M	QPSK	1	0	23.28	23.39	23.24	25
		1	37	23.45	23.39	23.33	25
		1	74	23.16	23.40	23.07	25
		36	0	22.70	22.78	22.84	24.5
		36	19	22.73	22.78	22.75	24.5
		36	39	22.92	22.85	22.66	24.5
		75	0	22.88	22.73	22.82	24.5
	16QAM	1	0	22.67	22.77	22.68	24.5
		1	37	23.05	23.25	23.06	24.5
		1	74	22.89	22.69	22.81	24.5
		36	0	21.80	21.93	21.70	23.5
		36	19	21.80	21.98	21.79	23.5
		36	39	21.82	21.81	21.63	23.5
		75	0	21.84	21.72	21.76	23.5
	64QAM	1	0	21.65	21.69	21.62	23.5
		1	37	22.06	21.93	22.04	23.5
		1	74	21.70	21.66	21.82	23.5
		36	0	20.85	20.88	20.83	22.5
		36	19	20.85	20.89	20.94	22.5
		36	39	20.88	20.88	20.79	22.5
		75	0	20.79	20.88	20.70	22.5
BW	Modulation	Channel		18650	18900	19150	Max. Tune-up (dBm)
		Frequency (MHz)		1855	1880	1905	
10M	QPSK	1	0	23.34	23.40	23.19	25
		1	24	23.36	23.33	23.29	25
		1	49	23.16	23.34	23.08	25
		25	0	22.67	22.69	22.90	24.5
		25	12	22.83	22.68	22.85	24.5
		25	25	22.90	22.82	22.67	24.5
		50	0	22.84	22.72	22.81	24.5
	16QAM	1	0	22.75	22.75	22.77	24.5
		1	24	23.15	23.20	22.98	24.5
		1	49	22.88	22.69	22.73	24.5
		25	0	21.81	21.81	21.84	23.5
		25	12	21.82	21.93	21.84	23.5
		25	25	21.84	21.89	21.54	23.5
		50	0	21.78	21.78	21.71	23.5
	64QAM	1	0	21.70	21.78	21.62	23.5
		1	24	21.99	21.93	22.02	23.5
		1	49	21.76	21.72	21.72	23.5
		25	0	20.87	20.78	20.84	22.5
		25	12	20.81	20.88	20.98	22.5
		25	25	20.84	20.83	20.71	22.5
		50	0	20.79	20.93	20.80	22.5
BW	Modulation	Channel		18625	18900	19175	Max. Tune-up (dBm)
		Frequency (MHz)		1852.5	1880	1907.5	
5M	QPSK	1	0	23.24	23.40	23.23	25
		1	12	23.39	23.37	23.38	25
		1	24	23.09	23.40	23.17	25
		12	0	22.66	22.77	22.82	24.5
		12	6	22.83	22.78	22.85	24.5
		12	13	22.89	22.81	22.64	24.5
		25	0	22.79	22.76	22.79	24.5
	16QAM	1	0	22.72	22.75	22.80	24.5
		1	12	23.01	22.26	23.00	24.5
		1	24	22.87	22.71	22.83	24.5
		12	0	21.78	21.79	21.81	23.5
		12	6	21.82	21.95	21.83	23.5
		12	13	21.89	21.82	21.53	23.5
		25	0	21.78	21.83	21.73	23.5
	64QAM	1	0	21.62	21.69	21.66	23.5
		1	12	22.01	21.97	22.04	23.5
		1	24	21.71	21.74	21.80	23.5
		12	0	20.96	20.85	20.80	22.5
		12	6	20.76	20.99	20.90	22.5
		12	13	20.82	20.86	20.71	22.5
		25	0	20.80	20.87	20.82	22.5
BW	Modulation	Channel		18615	18900	19185	Max. Tune-up (dBm)
		Frequency (MHz)		1851.5	1880	1908.5	
3M	QPSK	1	0	23.35	23.33	23.27	25
		1	7	23.37	23.38	23.42	25
		1	14	23.12	23.32	23.16	25
		8	0	22.74	22.74	22.82	24.5
		8	3	22.74	22.73	22.88	24.5
		8	7	22.95	22.79	22.65	24.5
		15	0	22.85	22.67	22.80	24.5
	16QAM	1	0	22.66	22.87	22.70	24.5
		1	7	23.05	23.25	23.11	24.5
		1	14	22.86	22.58	22.82	24.5
		8	0	21.84	21.80	21.73	23.5
		8	3	21.73	21.93	21.86	23.5
		8	7	21.81	21.78	21.57	23.5
		15	0	21.83	21.82	21.79	23.5
	64QAM	1	0	21.66	21.70	21.73	23.5
		1	7	21.85	21.98	21.97	23.5
		1	14	21.75	21.71	21.73	23.5
		8	0	20.96	20.80	20.74	22.5
		8	3	20.83	20.92	20.96	22.5
		8	7	20.81	20.85	20.82	22.5
		15	0	20.67	20.85	20.75	22.5
BW	Modulation	Channel		18607	18900	19193	Max. Tune-up (dBm)
		Frequency (MHz)		1850.7	1880	1909.3	
1.4M	QPSK	1	0	23.37	23.37	23.20	25
		1	2	23.40	23.43	23.42	25
		1	5	23.08	23.27	23.05	25
		3	0	23.13	23.11	23.23	25
		3	1	23.14	23.18	23.18	25
		3	3	23.34	23.24	23.05	25
		6	0	22.87	22.66	22.79	24.5
	16QAM	1	0	22.73	22.75	22.76	24.5
		1	2	23.13	23.32	22.98	24.5
		1	5	22.86	22.62	22.87	24.5
		3	0	22.65	22.70	22.63	24.5
		3	1	22.69	22.85	22.64	24.5
		3	3	22.72	22.67	22.53	24.5
		6	0	21.76	21.77	21.80	23.5
	64QAM	1	0	21.65	21.70	21.69	23.5
		1	2	21.79	21.92	22.00	23.5
		1	5	21.72	21.62	21.76	23.5
		3	0	21.79	21.67	21.68	23.5
		3	1	21.64	21.80	21.78	23.5
		3	3	21.66	21.65	21.63	23.5
		6	0	20.73	20.84	20.80	22.5

LTE Band 4

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20050	20175	20300	
		Frequency (MHz)		1720	1732.5	1745	
20M	QPSK	1	0	23.78	23.68	23.79	25.5
		1	50	24.11	24.15	**24.20**	25.5
		1	99	23.90	23.80	23.78	25.5
		50	0	23.23	23.18	23.21	24.5
		50	25	23.27	23.26	23.29	24.5
		50	50	23.26	23.23	23.20	24.5
		100	0	23.21	23.22	23.23	24.5
	16QAM	1	0	23.06	23.12	23.15	24.5
		1	50	23.44	23.47	23.48	24.5
		1	99	23.21	23.19	23.12	24.5
		50	0	22.22	22.18	22.22	23.5
		50	25	22.25	22.26	22.26	23.5
		50	50	22.24	22.24	22.21	23.5
		100	0	22.17	22.21	22.22	23.5
	64QAM	1	0	21.98	22.06	22.08	23.5
		1	50	22.36	22.44	22.43	23.5
		1	99	22.07	22.13	22.09	23.5
		50	0	21.13	21.17	21.18	22.5
		50	25	21.22	21.24	21.22	22.5
		50	50	21.18	21.23	21.19	22.5
		100	0	21.14	21.20	21.27	22.5
BW	Modulation	Channel		20025	20175	20325	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1732.5	1747.5	
15M	QPSK	1	0	23.88	23.86	23.71	25.5
		1	37	24.20	24.12	23.93	25.5
		1	74	23.90	23.62	23.68	25.5
		36	0	22.98	22.90	22.89	24.5
		36	19	23.04	22.87	22.82	24.5
		36	39	23.18	23.03	22.91	24.5
		75	0	23.00	23.00	22.94	24.5
	16QAM	1	0	22.77	22.76	22.61	24.5
		1	37	22.91	22.91	22.74	24.5
		1	74	22.67	22.55	22.50	24.5
		36	0	21.99	21.88	21.81	23.5
		36	19	21.82	21.92	21.90	23.5
		36	39	21.99	22.03	21.78	23.5
		75	0	22.10	21.89	21.97	23.5
	64QAM	1	0	21.66	21.75	21.58	23.5
		1	37	22.01	21.97	22.13	23.5
		1	74	21.72	21.72	21.74	23.5
		36	0	20.90	20.76	20.83	22.5
		36	19	20.91	20.92	20.90	22.5
		36	39	20.99	20.84	20.90	22.5
		75	0	20.90	20.92	20.77	22.5
BW	Modulation	Channel		20000	20175	20350	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1732.5	1750	
10M	QPSK	1	0	23.82	23.90	23.83	25.5
		1	24	24.20	24.04	23.82	25.5
		1	49	23.89	23.75	23.76	25.5
		25	0	23.06	22.88	22.90	24.5
		25	12	23.03	22.95	22.88	24.5
		25	25	23.16	23.02	22.93	24.5
		50	0	22.96	23.08	22.94	24.5
	16QAM	1	0	22.67	22.79	22.59	24.5
		1	24	22.91	22.90	22.82	24.5
		1	49	22.61	22.64	22.62	24.5
		25	0	21.98	21.90	21.85	23.5
		25	12	21.89	21.95	21.95	23.5
		25	25	21.97	21.98	21.88	23.5
		50	0	22.05	21.88	21.94	23.5
	64QAM	1	0	21.73	21.68	21.62	23.5
		1	24	22.08	21.99	22.09	23.5
		1	49	21.71	21.71	21.71	23.5
		25	0	20.80	20.88	20.75	22.5
		25	12	20.94	20.87	20.85	22.5
		25	25	20.97	20.88	20.83	22.5
		50	0	20.92	20.98	20.79	22.5
BW	Modulation	Channel		19975	20175	20375	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1732.5	1752.5	
5M	QPSK	1	0	23.88	23.80	23.82	25.5
		1	12	24.21	24.06	23.92	25.5
		1	24	23.93	23.76	23.79	25.5
		12	0	23.03	22.85	22.99	24.5
		12	6	23.06	22.95	22.86	24.5
		12	13	23.09	23.09	22.84	24.5
		25	0	22.97	23.04	22.83	24.5
	16QAM	1	0	22.74	22.70	22.70	24.5
		1	12	22.94	22.84	22.72	24.5
		1	24	22.68	22.66	22.58	24.5
		12	0	22.03	21.91	21.84	23.5
		12	6	21.87	21.94	21.91	23.5
		12	13	21.90	21.98	21.82	23.5
		25	0	22.09	21.86	21.94	23.5
	64QAM	1	0	21.63	21.70	21.55	23.5
		1	12	21.99	21.95	22.15	23.5
		1	24	21.70	21.60	21.68	23.5
		12	0	20.83	20.82	20.73	22.5
		12	6	20.82	20.88	20.88	22.5
		12	13	21.02	20.86	20.92	22.5
		25	0	21.00	20.98	20.86	22.5
BW	Modulation	Channel		19965	20175	20385	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1732.5	1753.5	
3M	QPSK	1	0	23.88	23.79	23.82	25.5
		1	7	24.25	24.13	23.86	25.5
		1	14	23.90	23.64	23.72	25.5
		8	0	23.10	22.95	23.01	24.5
		8	3	22.99	22.87	22.88	24.5
		8	7	23.09	23.03	22.94	24.5
		15	0	23.02	22.98	22.84	24.5
	16QAM	1	0	22.68	22.80	22.58	24.5
		1	7	22.94	22.82	22.71	24.5
		1	14	22.58	22.67	22.49	24.5
		8	0	22.00	21.87	21.94	23.5
		8	3	21.86	21.83	21.93	23.5
		8	7	22.00	22.10	21.85	23.5
		15	0	22.05	21.94	22.04	23.5
	64QAM	1	0	21.62	21.78	21.65	23.5
		1	7	21.99	21.98	22.09	23.5
		1	14	21.73	21.70	21.71	23.5
		8	0	20.80	20.84	20.76	22.5
		8	3	20.83	20.82	20.89	22.5
		8	7	20.98	20.84	20.89	22.5
		15	0	20.86	20.97	20.80	22.5
BW	Modulation	Channel		19957	20175	20393	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1732.5	1754.3	
1.4M	QPSK	1	0	23.69	23.56	23.74	25.5
		1	2	24.01	24.05	24.15	25.5
		1	5	23.81	23.65	23.77	25.5
		3	0	23.96	23.95	23.89	25.5
		3	1	24.07	24.05	24.01	25.5
		3	3	24.06	24.04	23.91	25.5
		6	0	23.15	23.08	23.16	24.5
	16QAM	1	0	23.05	23.04	23.10	24.5
		1	2	23.33	23.45	23.43	24.5
		1	5	23.08	23.17	23.04	24.5
		3	0	22.91	22.89	22.91	24.5
		3	1	22.93	22.96	22.93	24.5
		3	3	23.03	23.04	22.89	24.5
		6	0	22.10	22.14	22.20	23.5
	64QAM	1	0	21.97	21.95	22.01	23.5
		1	2	22.29	22.39	22.29	23.5
		1	5	21.94	22.00	22.06	23.5
		3	0	21.87	21.92	21.94	23.5
		3	1	22.00	22.05	21.95	23.5
		3	3	21.86	22.03	21.95	23.5
		6	0	21.08	21.16	21.24	22.5

LTE Band 5

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20450	20525	20600	
		Frequency (MHz)		829	836.5	844	
10M	QPSK	1	0	24.23	24.35	24.32	25.5
		1	24	24.39	24.43	**24.44**	25.5
		1	49	24.25	24.27	24.34	25.5
		25	0	23.30	23.40	23.28	24.5
		25	12	23.32	23.41	23.43	24.5
		25	25	23.27	23.39	23.40	24.5
		50	0	23.29	23.35	23.36	24.5
	16QAM	1	0	23.50	23.55	23.56	24.5
		1	24	23.73	23.61	23.65	24.5
		1	49	23.53	23.54	23.55	24.5
		25	0	22.41	22.50	22.37	23.5
		25	12	22.38	22.43	22.47	23.5
		25	25	22.33	22.50	22.45	23.5
		50	0	22.37	22.48	22.41	23.5
	64QAM	1	0	22.46	22.62	22.50	23.5
		1	24	22.61	22.61	22.68	23.5
		1	49	22.49	22.46	22.56	23.5
		25	0	21.35	21.48	21.32	22.5
		25	12	21.37	21.42	21.39	22.5
		25	25	21.31	21.44	21.38	22.5
		50	0	21.33	21.47	21.35	22.5
BW	Modulation	Channel		20425	20525	20625	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5	
5M	QPSK	1	0	24.09	24.23	24.24	25.5
		1	12	24.38	24.40	24.33	25.5
		1	24	24.15	24.19	24.22	25.5
		12	0	23.15	23.36	23.21	24.5
		12	6	23.22	23.38	23.30	24.5
		12	13	23.25	23.36	23.29	24.5
		25	0	23.14	23.31	23.31	24.5
	16QAM	1	0	23.48	23.52	23.43	24.5
		1	12	23.72	23.60	23.50	24.5
		1	24	23.40	23.39	23.51	24.5
		12	0	22.40	22.45	22.24	23.5
		12	6	22.29	22.40	22.39	23.5
		12	13	22.32	22.36	22.30	23.5
		25	0	22.24	22.47	22.31	23.5
	64QAM	1	0	22.45	22.54	22.44	23.5
		1	12	22.47	22.49	22.53	23.5
		1	24	22.44	22.43	22.53	23.5
		12	0	21.28	21.47	21.31	22.5
		12	6	21.26	21.35	21.36	22.5
		12	13	21.29	21.38	21.34	22.5
		25	0	21.20	21.46	21.29	22.5
BW	Modulation	Channel		20415	20525	20635	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5	
3M	QPSK	1	0	24.18	24.25	24.29	25.5
		1	7	24.38	24.41	24.30	25.5
		1	14	24.23	24.17	24.28	25.5
		8	0	23.25	23.29	23.23	24.5
		8	3	23.23	23.39	23.39	24.5
		8	7	23.19	23.36	23.37	24.5
		15	0	23.22	23.21	23.32	24.5
	16QAM	1	0	23.49	23.54	23.44	24.5
		1	7	23.65	23.57	23.50	24.5
		1	14	23.43	23.46	23.47	24.5
		8	0	22.27	22.45	22.30	23.5
		8	3	22.30	22.41	22.34	23.5
		8	7	22.18	22.46	22.30	23.5
		15	0	22.23	22.37	22.36	23.5
	64QAM	1	0	22.37	22.55	22.46	23.5
		1	7	22.52	22.46	22.65	23.5
		1	14	22.38	22.45	22.50	23.5
		8	0	21.22	21.40	21.30	22.5
		8	3	21.30	21.34	21.37	22.5
		8	7	21.29	21.39	21.24	22.5
		15	0	21.27	21.37	21.27	22.5
BW	Modulation	Channel		20407	20525	20643	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3	
1.4M	QPSK	1	0	24.15	24.34	24.24	25.5
		1	2	24.38	24.30	24.41	25.5
		1	5	24.24	24.17	24.29	25.5
		3	0	24.21	24.38	24.18	25.5
		3	1	24.26	24.32	24.32	25.5
		3	3	24.23	24.27	24.25	25.5
		6	0	23.21	23.22	23.30	24.5
	16QAM	1	0	23.45	23.50	23.55	24.5
		1	2	23.68	23.46	23.55	24.5
		1	5	23.50	23.51	23.48	24.5
		3	0	23.31	23.48	23.26	24.5
		3	1	23.25	23.33	23.42	24.5
		3	3	23.24	23.46	23.43	24.5
		6	0	22.22	22.47	22.33	23.5
	64QAM	1	0	22.42	22.52	22.43	23.5
		1	2	22.58	22.57	22.58	23.5
		1	5	22.38	22.31	22.44	23.5
		3	0	22.23	22.39	22.20	23.5
		3	1	22.31	22.41	22.36	23.5
		3	3	22.18	22.39	22.37	23.5
		6	0	21.26	21.37	21.21	22.5

LTE Band 7

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20850	21100	21350	
		Frequency (MHz)		2510	2535	2560	
20M	QPSK	1	0	22.64	22.69	22.65	24
		1	50	**22.96**	22.88	22.94	24
		1	99	22.69	22.66	22.60	24
		50	0	22.85	22.70	22.80	24
		50	25	22.90	22.83	22.84	24
		50	50	22.82	22.71	22.79	24
		100	0	22.85	22.77	22.71	24
	16QAM	1	0	22.78	22.88	22.75	24
		1	50	22.67	22.64	22.72	24
		1	99	22.69	22.62	22.70	24
		50	0	22.15	21.87	21.95	23
		50	25	21.90	21.90	21.88	23
		50	50	22.02	21.78	21.84	23
		100	0	21.92	21.90	21.75	23
	64QAM	1	0	22.09	21.84	21.82	23
		1	50	22.16	22.10	22.28	23
		1	99	21.87	21.84	21.61	23
		50	0	21.00	20.88	20.78	22
		50	25	21.09	20.93	20.93	22
		50	50	20.94	20.77	20.77	22
		100	0	20.93	20.89	20.84	22
BW	Modulation	Channel		20825	21100	21375	Max. Tune-up (dBm)
		Frequency (MHz)		2507.5	2535	2562.5	
15M	QPSK	1	0	22.55	22.57	22.51	24
		1	37	22.82	22.85	22.84	24
		1	74	22.62	22.52	22.58	24
		36	0	22.74	22.59	22.72	24
		36	19	22.79	22.69	22.69	24
		36	39	22.79	22.67	22.65	24
		75	0	22.76	22.65	22.70	24
	16QAM	1	0	22.72	22.79	22.69	24
		1	37	22.64	22.55	22.70	24
		1	74	22.54	22.60	22.62	24
		36	0	22.11	21.83	21.94	23
		36	19	21.84	21.75	21.87	23
		36	39	21.95	21.70	21.77	23
		75	0	21.78	21.82	21.60	23
	64QAM	1	0	21.96	21.81	21.81	23
		1	37	22.09	22.03	22.14	23
		1	74	21.83	21.71	21.54	23
		36	0	20.96	20.77	20.65	22
		36	19	20.98	20.85	20.82	22
		36	39	20.91	20.62	20.68	22
		75	0	20.85	20.82	20.71	22
BW	Modulation	Channel		20800	21100	21400	Max. Tune-up (dBm)
		Frequency (MHz)		2505	2535	2565	
10M	QPSK	1	0	22.52	22.60	22.54	24
		1	24	22.90	22.81	22.91	24
		1	49	22.64	22.56	22.59	24
		25	0	22.78	22.63	22.73	24
		25	12	22.80	22.74	22.73	24
		25	25	22.73	22.66	22.74	24
		50	0	22.82	22.64	22.69	24
	16QAM	1	0	22.71	22.85	22.70	24
		1	24	22.59	22.52	22.63	24
		1	49	22.58	22.53	22.62	24
		25	0	22.12	21.78	21.82	23
		25	12	21.79	21.89	21.77	23
		25	25	21.99	21.70	21.70	23
		50	0	21.77	21.76	21.68	23
	64QAM	1	0	22.03	21.73	21.73	23
		1	24	22.12	22.06	22.23	23
		1	49	21.83	21.73	21.48	23
		25	0	20.97	20.83	20.75	22
		25	12	21.05	20.87	20.88	22
		25	25	20.81	20.62	20.70	22
		50	0	20.84	20.83	20.70	22
BW	Modulation	Channel		20775	21100	21425	Max. Tune-up (dBm)
		Frequency (MHz)		2502.5	2535	2567.5	
5M	QPSK	1	0	22.53	22.54	22.58	24
		1	12	22.81	22.83	22.92	24
		1	24	22.64	22.55	22.59	24
		12	0	22.78	22.56	22.68	24
		12	6	22.76	22.74	22.83	24
		12	13	22.70	22.58	22.78	24
		25	0	22.74	22.71	22.61	24
	16QAM	1	0	22.72	22.77	22.72	24
		1	12	22.55	22.53	22.58	24
		1	24	22.60	22.60	22.63	24
		12	0	22.08	21.76	21.93	23
		12	6	21.80	21.81	21.78	23
		12	13	21.87	21.65	21.70	23
		25	0	21.82	21.77	21.74	23
	64QAM	1	0	21.98	21.81	21.73	23
		1	12	22.07	22.07	22.25	23
		1	24	21.80	21.74	21.52	23
		12	0	20.98	20.80	20.74	22
		12	6	21.06	20.84	20.78	22
		12	13	20.91	20.64	20.64	22
		25	0	20.86	20.85	20.78	22

LTE Band 38

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		37850	38000	38150	
		Frequency (MHz)		2580	2595	2610	
20M	QPSK	1	0	23.72	23.85	23.84	25
		1	50	23.97	**24.03**	24.01	25
		1	99	23.75	23.76	23.80	25
		50	0	22.82	22.94	22.93	24
		50	25	22.84	22.96	22.94	24
		50	50	22.81	22.82	22.81	24
		100	0	22.93	22.95	22.94	24
	16QAM	1	0	22.76	22.79	22.81	24
		1	50	23.07	23.09	23.11	24
		1	99	22.72	22.69	22.71	24
		50	0	21.90	21.96	22.03	23
		50	25	21.94	21.99	21.98	23
		50	50	21.91	21.88	21.85	23
		100	0	21.93	21.97	21.97	23
	64QAM	1	0	21.73	21.79	21.68	23
		1	50	21.79	21.80	21.83	23
		1	99	21.66	21.69	21.73	23
		50	0	20.82	20.95	20.97	22
		50	25	20.88	20.96	20.96	22
		50	50	20.84	20.82	20.78	22
		100	0	20.84	20.91	20.95	22
BW	Modulation	Channel		37825	38000	38175	Max. Tune-up (dBm)
		Frequency (MHz)		2577.5	2595	2612.5	
15M	QPSK	1	0	23.69	23.76	23.70	25
		1	37	23.99	23.99	23.91	25
		1	74	23.60	23.73	23.73	25
		36	0	22.75	22.81	22.85	24
		36	19	22.82	22.84	22.81	24
		36	39	22.74	22.73	22.75	24
		75	0	22.92	22.84	22.81	24
	16QAM	1	0	22.63	22.75	22.70	24
		1	37	22.98	22.95	23.08	24
		1	74	22.68	22.60	22.66	24
		36	0	21.75	21.89	21.99	23
		36	19	21.92	21.95	21.90	23
		36	39	21.84	21.82	21.82	23
		75	0	21.87	21.89	21.94	23
	64QAM	1	0	21.65	21.77	21.67	23
		1	37	21.64	21.66	21.76	23
		1	74	21.53	21.56	21.62	23
		36	0	20.79	20.94	20.96	22
		36	19	20.85	20.82	20.92	22
		36	39	20.75	20.78	20.73	22
		75	0	20.72	20.90	20.91	22
BW	Modulation	Channel		37800	38000	38200	Max. Tune-up (dBm)
		Frequency (MHz)		2575	2595	2615	
10M	QPSK	1	0	23.62	23.81	23.69	25
		1	24	23.93	23.92	23.96	25
		1	49	23.72	23.70	23.73	25
		25	0	22.79	22.93	22.89	24
		25	12	22.69	22.94	22.80	24
		25	25	22.73	22.75	22.75	24
		50	0	22.90	22.84	22.85	24
	16QAM	1	0	22.66	22.70	22.69	24
		1	24	22.94	23.06	23.03	24
		1	49	22.57	22.66	22.56	24
		25	0	21.75	21.87	21.90	23
		25	12	21.80	21.95	21.88	23
		25	25	21.81	21.73	21.72	23
		50	0	21.87	21.90	21.88	23
	64QAM	1	0	21.65	21.69	21.60	23
		1	24	21.67	21.77	21.75	23
		1	49	21.52	21.65	21.68	23
		25	0	20.68	20.82	20.94	22
		25	12	20.82	20.82	20.82	22
		25	25	20.83	20.71	20.76	22
		50	0	20.76	20.78	20.93	22
BW	Modulation	Channel		37775	38000	38225	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5	
5M	QPSK	1	0	23.71	23.70	23.70	25
		1	12	24.00	23.90	23.86	25
		1	24	23.66	23.67	23.73	25
		12	0	22.74	22.88	22.91	24
		12	6	22.80	22.86	22.86	24
		12	13	22.68	22.74	22.72	24
		25	0	22.84	22.85	22.93	24
	16QAM	1	0	22.64	22.75	22.66	24
		1	12	23.04	22.99	22.97	24
		1	24	22.59	22.58	22.57	24
		12	0	21.89	21.87	21.99	23
		12	6	21.92	21.92	21.87	23
		12	13	21.77	21.81	21.70	23
		25	0	21.83	21.87	21.93	23
	64QAM	1	0	21.64	21.64	21.64	23
		1	12	21.75	21.70	21.74	23
		1	24	21.51	21.55	21.63	23
		12	0	20.81	20.90	20.94	22
		12	6	20.75	20.95	20.87	22
		12	13	20.70	20.76	20.66	22
		25	0	20.72	20.90	20.91	22

LTE Band 41 (2496 ~ 2690MHz)

BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	Max. Tune-up (dBm)
		Channel		39750	40185	40620	41055	41490	
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680	
20M	QPSK	1	0	23.70	23.57	23.64	23.57	23.34	25
		1	50	**23.96**	23.80	23.94	23.91	23.49	25
		1	99	23.56	23.46	23.58	23.52	23.44	25
		50	0	22.79	22.68	22.79	22.69	22.65	24
		50	25	22.86	22.71	22.81	22.71	22.67	24
		50	50	22.82	22.67	22.76	22.67	22.66	24
		100	0	22.89	22.74	22.86	22.84	22.77	24
	16QAM	1	0	22.75	22.66	22.75	22.61	22.29	24
		1	50	22.99	22.87	23.02	22.99	22.54	24
		1	99	22.64	22.57	22.66	22.54	22.51	24
		50	0	21.84	21.78	21.90	21.76	21.70	23
		50	25	21.88	21.91	21.92	21.77	21.77	23
		50	50	21.88	21.82	21.85	21.83	21.76	23
		100	0	21.93	21.78	21.90	21.88	21.75	23
	64QAM	1	0	21.35	21.24	21.34	21.23	21.30	23
		1	50	21.62	21.47	21.57	21.45	21.50	23
		1	99	21.23	21.28	21.22	21.21	21.22	23
		50	0	20.77	20.75	20.85	20.77	20.67	22
		50	25	20.84	20.83	20.88	20.82	20.71	22
		50	50	20.79	20.68	20.81	20.72	20.67	22
		100	0	20.88	20.75	20.90	20.86	20.74	22
BW	Modulation	Channel		39725	40173	40620	41068	41515	Max. Tune-up (dBm)
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5	
15M	QPSK	1	0	23.55	23.49	23.50	23.42	23.23	25
		1	37	23.84	23.75	23.83	23.87	23.38	25
		1	74	23.45	23.41	23.46	23.43	23.40	25
		36	0	22.64	22.54	22.67	22.57	22.51	24
		36	19	22.80	22.56	22.70	22.67	22.60	24
		36	39	22.68	22.61	22.73	22.66	22.57	24
		75	0	22.87	22.59	22.71	22.78	22.64	24
	16QAM	1	0	22.72	22.59	22.64	22.56	22.14	24
		1	37	22.93	22.81	23.01	22.92	22.44	24
		1	74	22.62	22.42	22.55	22.51	22.37	24
		36	0	21.81	21.71	21.83	21.62	21.65	23
		36	19	21.85	21.83	21.79	21.74	21.64	23
		36	39	21.73	21.70	21.79	21.72	21.70	23
		75	0	21.87	21.76	21.83	21.78	21.69	23
	64QAM	1	0	21.20	21.17	21.31	21.08	21.15	23
		1	37	21.57	21.32	21.56	21.44	21.49	23
		1	74	21.19	21.25	21.17	21.17	21.19	23
		36	0	20.73	20.60	20.73	20.70	20.60	22
		36	19	20.77	20.68	20.80	20.73	20.70	22
		36	39	20.69	20.61	20.69	20.60	20.56	22
		75	0	20.75	20.67	20.80	20.79	20.60	22
BW	Modulation	Channel		39700	40160	40620	41080	41540	Max. Tune-up (dBm)
		Frequency (MHz)		2501	2547	2593	2639	2685	
10M	QPSK	1	0	23.67	23.52	23.49	23.48	23.30	25
		1	24	23.93	23.69	23.85	23.85	23.40	25
		1	49	23.51	23.43	23.56	23.45	23.35	25
		25	0	22.69	22.56	22.74	22.54	22.55	24
		25	12	22.82	22.58	22.67	22.66	22.53	24
		25	25	22.70	22.62	22.71	22.65	22.61	24
		50	0	22.82	22.66	22.79	22.75	22.75	24
	16QAM	1	0	22.69	22.54	22.60	22.52	22.23	24
		1	24	22.89	22.84	22.97	22.85	22.48	24
		1	49	22.49	22.56	22.57	22.43	22.45	24
		25	0	21.71	21.76	21.82	21.69	21.58	23
		25	12	21.82	21.77	21.83	21.75	21.72	23
		25	25	21.83	21.70	21.74	21.79	21.69	23
		50	0	21.88	21.71	21.77	21.83	21.72	23
	64QAM	1	0	21.28	21.11	21.30	21.12	21.29	23
		1	24	21.54	21.40	21.48	21.38	21.49	23
		1	49	21.11	21.24	21.16	21.19	21.08	23
		25	0	20.73	20.71	20.81	20.69	20.64	22
		25	12	20.75	20.79	20.87	20.67	20.56	22
		25	25	20.67	20.53	20.74	20.64	20.62	22
		50	0	20.75	20.70	20.81	20.77	20.69	22
BW	Modulation	Channel		39675	40148	40620	41093	41565	Max. Tune-up (dBm)
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5	
5M	QPSK	1	0	23.59	23.50	23.51	23.51	23.25	25
		1	12	23.94	23.72	23.91	23.86	23.38	25
		1	24	23.49	23.34	23.51	23.38	23.35	25
		12	0	22.64	22.62	22.67	22.65	22.53	24
		12	6	22.84	22.57	22.68	22.65	22.53	24
		12	13	22.70	22.66	22.61	22.66	22.51	24
		25	0	22.75	22.70	22.71	22.70	22.66	24
	16QAM	1	0	22.62	22.65	22.70	22.56	22.20	24
		1	12	22.90	22.86	22.93	22.93	22.44	24
		1	24	22.61	22.44	22.55	22.41	22.48	24
		12	0	21.79	21.67	21.83	21.65	21.62	23
		12	6	21.80	21.90	21.80	21.68	21.68	23
		12	13	21.80	21.76	21.71	21.81	21.63	23
		25	0	21.80	21.66	21.77	21.82	21.73	23
	64QAM	1	0	21.24	21.22	21.28	21.20	21.27	23
		1	12	21.56	21.40	21.48	21.44	21.49	23
		1	24	21.21	21.23	21.09	21.18	21.09	23
		12	0	20.71	20.63	20.73	20.72	20.62	22
		12	6	20.76	20.73	20.78	20.78	20.67	22
		12	13	20.65	20.59	20.80	20.60	20.55	22
		25	0	20.78	20.60	20.82	20.85	20.66	22

LTE Band 66

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		132072	132322	132572	
		Frequency (MHz)		1720	1745	1770	
20M	QPSK	1	0	23.87	23.88	23.78	25.5
		1	50	24.24	**24.26**	24.22	25.5
		1	99	23.88	23.89	23.86	25.5
		50	0	23.25	23.24	23.25	24.5
		50	25	23.28	23.29	23.26	24.5
		50	50	23.27	23.19	23.13	24.5
		100	0	23.21	23.28	23.16	24.5
	16QAM	1	0	23.07	23.17	23.08	24.5
		1	50	23.34	23.35	23.32	24.5
		1	99	23.31	23.05	23.23	24.5
		50	0	22.22	22.24	22.24	23.5
		50	25	22.27	22.19	22.23	23.5
		50	50	22.26	22.20	22.12	23.5
		100	0	22.24	22.19	22.15	23.5
	64QAM	1	0	22.14	22.10	22.05	23.5
		1	50	22.44	22.45	22.41	23.5
		1	99	22.02	22.12	22.10	23.5
		50	0	21.16	21.19	21.13	22.5
		50	25	21.20	21.27	21.22	22.5
		50	50	21.26	21.22	21.09	22.5
		100	0	21.23	21.26	21.14	22.5
BW	Modulation	Channel		132047	132322	132597	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1745	1772.5	
15M	QPSK	1	0	23.87	23.83	23.72	25.5
		1	37	24.12	24.10	23.84	25.5
		1	74	23.85	23.64	23.70	25.5
		36	0	23.06	22.87	22.94	24.5
		36	19	22.93	23.00	22.83	24.5
		36	39	23.14	23.04	22.95	24.5
		75	0	23.01	23.03	22.87	24.5
	16QAM	1	0	22.64	22.72	22.70	24.5
		1	37	22.92	22.85	22.75	24.5
		1	74	22.63	22.64	22.60	24.5
		36	0	22.03	21.80	21.92	23.5
		36	19	21.88	21.85	21.96	23.5
		36	39	21.92	22.06	21.83	23.5
		75	0	21.97	21.94	21.95	23.5
	64QAM	1	0	21.70	21.77	21.61	23.5
		1	37	22.00	21.98	22.06	23.5
		1	74	21.59	21.64	21.67	23.5
		36	0	20.89	20.86	20.78	22.5
		36	19	20.94	20.92	20.89	22.5
		36	39	21.07	20.83	20.91	22.5
		75	0	20.97	20.87	20.86	22.5
BW	Modulation	Channel		132022	132322	132622	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1745	1775	
10M	QPSK	1	0	23.86	23.87	23.73	25.5
		1	24	24.18	24.14	23.90	25.5
		1	49	23.83	23.68	23.72	25.5
		25	0	23.05	22.85	23.00	24.5
		25	12	23.04	22.97	22.87	24.5
		25	25	23.18	23.02	22.84	24.5
		50	0	22.99	23.02	22.89	24.5
	16QAM	1	0	22.69	22.67	22.63	24.5
		1	24	22.92	22.93	22.83	24.5
		1	49	22.68	22.58	22.54	24.5
		25	0	21.95	21.80	21.93	23.5
		25	12	21.84	21.84	21.90	23.5
		25	25	21.98	22.03	21.91	23.5
		50	0	22.05	21.90	22.05	23.5
	64QAM	1	0	21.64	21.79	21.57	23.5
		1	24	21.96	21.87	22.12	23.5
		1	49	21.61	21.64	21.67	23.5
		25	0	20.84	20.89	20.75	22.5
		25	12	20.91	20.94	20.81	22.5
		25	25	21.01	20.85	20.82	22.5
		50	0	20.98	20.94	20.86	22.5
BW	Modulation	Channel		131997	132322	132647	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1745	1777.5	
5M	QPSK	1	0	23.77	23.84	23.85	25.5
		1	12	24.21	24.05	23.90	25.5
		1	24	23.80	23.73	23.69	25.5
		12	0	23.00	22.97	22.91	24.5
		12	6	23.05	22.89	22.91	24.5
		12	13	23.10	22.97	22.85	24.5
		25	0	22.99	23.10	22.88	24.5
	16QAM	1	0	22.76	22.72	22.57	24.5
		1	12	22.98	22.92	22.78	24.5
		1	24	22.62	22.60	22.54	24.5
		12	0	21.92	21.88	21.81	23.5
		12	6	21.86	21.92	21.94	23.5
		12	13	21.91	22.01	21.91	23.5
		25	0	22.02	21.82	21.98	23.5
	64QAM	1	0	21.65	21.67	21.60	23.5
		1	12	21.95	21.96	22.11	23.5
		1	24	21.60	21.73	21.70	23.5
		12	0	20.83	20.83	20.72	22.5
		12	6	20.93	20.89	20.91	22.5
		12	13	20.96	20.79	20.83	22.5
		25	0	20.94	20.97	20.89	22.5
BW	Modulation	Channel		131987	132322	132657	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1745	1778.5	
3M	QPSK	1	0	23.88	23.89	23.71	25.5
		1	7	24.15	24.08	23.90	25.5
		1	14	23.84	23.71	23.73	25.5
		8	0	22.98	22.86	22.92	24.5
		8	3	23.00	23.00	22.94	24.5
		8	7	23.15	23.06	22.84	24.5
		15	0	22.88	23.04	22.95	24.5
	16QAM	1	0	22.64	22.77	22.71	24.5
		1	7	23.00	22.89	22.81	24.5
		1	14	22.68	22.55	22.56	24.5
		8	0	22.03	21.84	21.93	23.5
		8	3	21.87	21.90	21.96	23.5
		8	7	21.95	22.06	21.79	23.5
		15	0	22.07	21.82	21.95	23.5
	64QAM	1	0	21.65	21.73	21.58	23.5
		1	7	22.09	21.99	22.13	23.5
		1	14	21.59	21.65	21.64	23.5
		8	0	20.83	20.90	20.85	22.5
		8	3	20.89	20.86	20.93	22.5
		8	7	21.05	20.77	20.80	22.5
		15	0	20.95	20.91	20.78	22.5
BW	Modulation	Channel		131979	132322	132665	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1745	1779.3	
1.4M	QPSK	1	0	23.82	23.84	23.77	25.5
		1	2	24.17	24.25	24.12	25.5
		1	5	23.79	23.74	23.75	25.5
		3	0	23.93	23.91	23.91	25.5
		3	1	24.03	24.01	24.00	25.5
		3	3	24.05	23.93	23.78	25.5
		6	0	23.09	23.24	23.09	24.5
	16QAM	1	0	22.98	23.09	22.93	24.5
		1	2	23.30	23.22	23.26	24.5
		1	5	23.25	23.04	23.20	24.5
		3	0	23.01	22.89	22.90	24.5
		3	1	23.00	22.87	22.95	24.5
		3	3	22.91	22.93	22.77	24.5
		6	0	22.12	22.04	22.14	23.5
	64QAM	1	0	22.03	22.08	22.03	23.5
		1	2	22.35	22.30	22.32	23.5
		1	5	21.89	22.09	22.06	23.5
		3	0	21.89	21.92	21.82	23.5
		3	1	21.96	22.03	21.94	23.5
		3	3	22.03	21.94	21.74	23.5
		6	0	21.20	21.21	21.01	22.5

LTE DSI-3&4
Ant1

LTE Band 2

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		18700	18900	19100	
		Frequency (MHz)		1860	1880	1900	
20M	QPSK	1	0	20.28	20.42	20.27	22
		1	50	**20.58**	20.54	20.49	22
		1	99	20.29	20.42	20.33	22
		50	0	20.24	20.19	20.31	22
		50	25	20.38	20.30	20.35	22
		50	50	20.26	20.21	20.17	22
		100	0	20.43	20.28	20.22	22
	16QAM	1	0	20.24	20.28	20.29	22
		1	50	20.54	20.40	20.39	22
		1	99	20.31	20.20	20.22	22
		50	0	20.29	20.38	20.24	22
		50	25	20.31	20.43	20.35	22
		50	50	20.28	20.31	20.11	22
		100	0	20.22	20.25	20.24	22
	64QAM	1	0	20.21	20.21	20.17	22
		1	50	20.50	20.32	20.17	22
		1	99	20.20	20.19	20.16	22
		50	0	20.24	20.39	20.27	22
		50	25	20.31	20.41	20.40	22
		50	50	20.37	20.35	20.29	22
		100	0	20.24	20.29	20.33	22
BW	Modulation	Channel		18675	18900	19125	Max. Tune-up (dBm)
		Frequency (MHz)		1857.5	1880	1902.5	
15M	QPSK	1	0	20.25	20.27	20.13	22
		1	37	20.47	20.49	20.45	22
		1	74	20.15	20.35	20.23	22
		36	0	20.09	20.07	20.28	22
		36	19	20.32	20.23	20.28	22
		36	39	20.11	20.15	20.07	22
		75	0	20.29	20.23	20.17	22
	16QAM	1	0	20.12	20.16	20.15	22
		1	37	20.48	20.34	20.36	22
		1	74	20.21	20.07	20.09	22
		36	0	20.21	20.28	20.21	22
		36	19	20.17	20.35	20.31	22
		36	39	20.13	20.22	20.04	22
		75	0	20.11	20.19	20.16	22
	64QAM	1	0	20.12	20.07	20.13	22
		1	37	20.35	20.25	20.02	22
		1	74	20.08	20.08	20.05	22
		36	0	20.16	20.26	20.21	22
		36	19	20.19	20.29	20.31	22
		36	39	20.24	20.20	20.18	22
		75	0	20.15	20.15	20.29	22
BW	Modulation	Channel		18650	18900	19150	Max. Tune-up (dBm)
		Frequency (MHz)		1855	1880	1905	
10M	QPSK	1	0	20.15	20.33	20.12	22
		1	24	20.46	20.40	20.46	22
		1	49	20.23	20.39	20.27	22
		25	0	20.19	20.04	20.22	22
		25	12	20.23	20.16	20.20	22
		25	25	20.19	20.16	20.04	22
		50	0	20.37	20.13	20.15	22
	16QAM	1	0	20.15	20.19	20.22	22
		1	24	20.53	20.36	20.28	22
		1	49	20.28	20.15	20.21	22
		25	0	20.20	20.27	20.19	22
		25	12	20.21	20.33	20.32	22
		25	25	20.27	20.19	20.13	22
		50	0	20.12	20.13	20.15	22
	64QAM	1	0	20.17	20.12	20.08	22
		1	24	20.37	20.20	20.05	22
		1	49	20.15	20.10	20.13	22
		25	0	20.21	20.37	20.19	22
		25	12	20.21	20.29	20.29	22
		25	25	20.36	20.27	20.27	22
		50	0	20.19	20.16	20.25	22
BW	Modulation	Channel		18625	18900	19175	Max. Tune-up (dBm)
		Frequency (MHz)		1852.5	1880	1907.5	
5M	QPSK	1	0	20.25	20.27	20.15	22
		1	12	20.46	20.45	20.38	22
		1	24	20.26	20.38	20.27	22
		12	0	20.14	20.06	20.21	22
		12	6	20.26	20.26	20.33	22
		12	13	20.25	20.07	20.09	22
		25	0	20.35	20.23	20.19	22
	16QAM	1	0	20.12	20.16	20.25	22
		1	12	20.40	20.29	20.28	22
		1	24	20.18	20.12	20.13	22
		12	0	20.27	20.31	20.15	22
		12	6	20.21	20.39	20.31	22
		12	13	20.21	20.16	20.31	22
		25	0	20.13	20.17	20.10	22
	64QAM	1	0	20.07	20.06	20.03	22
		1	12	20.43	20.17	20.03	22
		1	24	20.12	20.14	20.15	22
		12	0	20.22	20.35	20.14	22
		12	6	20.16	20.40	20.25	22
		12	13	20.34	20.32	20.19	22
		25	0	20.15	20.22	20.28	22
BW	Modulation	Channel		18615	18900	19185	Max. Tune-up (dBm)
		Frequency (MHz)		1851.5	1880	1908.5	
3M	QPSK	1	0	20.19	20.30	20.17	22
		1	7	20.55	20.41	20.44	22
		1	14	20.16	20.38	20.21	22
		8	0	20.14	20.07	20.22	22
		8	3	20.36	20.17	20.22	22
		8	7	20.14	20.08	20.06	22
		15	0	20.34	20.14	20.08	22
	16QAM	1	0	20.14	20.16	20.17	22
		1	7	20.47	20.25	20.28	22
		1	14	20.16	20.07	20.12	22
		8	0	20.17	20.24	20.15	22
		8	3	20.20	20.36	20.23	22
		8	7	20.17	20.27	20.45	22
		15	0	20.21	20.16	20.21	22
	64QAM	1	0	20.09	20.20	20.09	22
		1	7	20.42	20.21	20.11	22
		1	14	20.07	20.11	20.14	22
		8	0	20.15	20.24	20.23	22
		8	3	20.23	20.28	20.28	22
		8	7	20.22	20.22	20.20	22
		15	0	20.22	20.15	20.21	22
BW	Modulation	Channel		18607	18900	19193	Max. Tune-up (dBm)
		Frequency (MHz)		1850.7	1880	1909.3	
1.4M	QPSK	1	0	20.19	20.32	20.21	22
		1	2	20.46	20.43	20.46	22
		1	5	20.22	20.40	20.32	22
		3	0	20.20	20.10	20.30	22
		3	1	20.34	20.17	20.30	22
		3	3	20.15	20.15	20.16	22
		6	0	20.42	20.27	20.14	22
	16QAM	1	0	20.11	20.19	20.14	22
		1	2	20.42	20.35	20.31	22
		1	5	20.24	20.10	20.20	22
		3	0	20.21	20.31	20.12	22
		3	1	20.17	20.33	20.29	22
		3	3	20.27	20.28	20.10	22
		6	0	20.17	20.14	20.16	22
	64QAM	1	0	20.13	20.13	20.12	22
		1	2	20.36	20.19	20.08	22
		1	5	20.16	20.18	20.06	22
		3	0	20.14	20.31	20.16	22
		3	1	20.19	20.32	20.35	22
		3	3	20.30	20.30	20.28	22
		6	0	20.23	20.16	20.32	22

LTE Band 4

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20050	20175	20300	
		Frequency (MHz)		1720	1732.5	1745	
20M	QPSK	1	0	19.81	19.69	19.87	21.5
		1	50	20.04	20.07	**20.15**	21.5
		1	99	19.87	19.86	19.83	21.5
		50	0	19.92	19.91	19.88	21.5
		50	25	19.91	19.95	20.07	21.5
		50	50	19.94	19.94	19.87	21.5
		100	0	19.99	19.97	20.01	21.5
	16QAM	1	0	19.77	19.84	19.84	21.5
		1	50	19.89	19.87	19.88	21.5
		1	99	19.91	19.90	19.89	21.5
		50	0	19.96	19.96	19.97	21.5
		50	25	19.94	19.99	19.96	21.5
		50	50	19.90	19.93	19.85	21.5
		100	0	19.81	19.88	19.97	21.5
	64QAM	1	0	19.76	19.75	19.75	21.5
		1	50	19.84	19.93	19.83	21.5
		1	99	19.76	19.90	19.82	21.5
		50	0	19.79	19.95	19.94	21.5
		50	25	19.93	20.01	19.87	21.5
		50	50	19.84	19.91	19.97	21.5
		100	0	19.83	19.93	19.91	21.5
BW	Modulation	Channel		20025	20175	20325	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1732.5	1747.5	
15M	QPSK	1	0	19.68	19.68	19.79	21.5
		1	37	19.98	20.05	20.03	21.5
		1	74	19.81	19.78	19.68	21.5
		36	0	19.91	19.87	19.81	21.5
		36	19	19.86	19.83	19.93	21.5
		36	39	19.88	19.85	19.86	21.5
		75	0	19.96	19.93	19.86	21.5
	16QAM	1	0	19.70	19.71	19.83	21.5
		1	37	19.74	19.76	19.76	21.5
		1	74	19.85	19.82	19.85	21.5
		36	0	19.83	19.85	19.84	21.5
		36	19	19.84	19.98	19.82	21.5
		36	39	19.76	19.79	19.74	21.5
		75	0	19.68	19.73	19.91	21.5
	64QAM	1	0	19.66	19.68	19.62	21.5
		1	37	19.82	19.83	19.69	21.5
		1	74	19.73	19.77	19.70	21.5
		36	0	19.78	19.81	19.85	21.5
		36	19	19.85	19.94	19.84	21.5
		36	39	19.70	19.80	19.94	21.5
		75	0	19.82	19.88	19.76	21.5
BW	Modulation	Channel		20000	20175	20350	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1732.5	1750	
10M	QPSK	1	0	19.76	19.56	19.80	21.5
		1	24	20.02	20.03	20.10	21.5
		1	49	19.74	19.82	19.77	21.5
		25	0	19.90	19.85	19.79	21.5
		25	12	19.80	19.91	20.03	21.5
		25	25	19.80	19.81	19.86	21.5
		50	0	19.95	19.87	19.88	21.5
	16QAM	1	0	19.73	19.77	19.74	21.5
		1	24	19.79	19.77	19.75	21.5
		1	49	19.79	19.86	19.76	21.5
		25	0	19.83	19.86	19.83	21.5
		25	12	19.85	19.96	19.91	21.5
		25	25	19.82	19.78	19.79	21.5
		50	0	19.74	19.81	19.93	21.5
	64QAM	1	0	19.75	19.62	19.73	21.5
		1	24	19.76	19.84	19.80	21.5
		1	49	19.75	19.88	19.73	21.5
		25	0	19.78	19.85	19.84	21.5
		25	12	19.90	19.95	19.86	21.5
		25	25	19.80	19.83	19.85	21.5
		50	0	19.77	19.87	19.85	21.5
BW	Modulation	Channel		19975	20175	20375	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1732.5	1752.5	
5M	QPSK	1	0	19.66	19.56	19.77	21.5
		1	12	19.93	19.96	20.07	21.5
		1	24	19.75	19.78	19.80	21.5
		12	0	19.85	19.82	19.83	21.5
		12	6	19.80	19.92	19.94	21.5
		12	13	19.92	19.89	19.79	21.5
		25	0	19.94	19.85	19.88	21.5
	16QAM	1	0	19.73	19.76	19.71	21.5
		1	12	19.88	19.82	19.74	21.5
		1	24	19.83	19.87	19.85	21.5
		12	0	19.82	19.86	19.88	21.5
		12	6	19.91	19.92	19.95	21.5
		12	13	19.81	19.88	19.79	21.5
		25	0	19.71	19.85	19.88	21.5
	64QAM	1	0	19.68	19.82	19.74	21.5
		1	12	19.73	19.80	19.69	21.5
		1	24	19.67	19.79	19.73	21.5
		12	0	19.72	19.89	19.90	21.5
		12	6	19.81	19.91	19.77	21.5
		12	13	19.80	19.86	19.89	21.5
		25	0	19.80	19.87	19.82	21.5
BW	Modulation	Channel		19965	20175	20385	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1732.5	1753.5	
3M	QPSK	1	0	19.77	19.59	19.85	21.5
		1	7	19.99	20.06	20.08	21.5
		1	14	19.79	19.74	19.75	21.5
		8	0	19.83	19.85	19.76	21.5
		8	3	19.84	19.85	20.06	21.5
		8	7	19.85	19.79	19.73	21.5
		15	0	19.90	19.95	19.91	21.5
	16QAM	1	0	19.67	19.78	19.75	21.5
		1	7	19.77	19.74	19.73	21.5
		1	14	19.86	19.77	19.76	21.5
		8	0	19.88	19.84	19.82	21.5
		8	3	19.82	19.85	19.88	21.5
		8	7	19.85	19.78	19.79	21.5
		15	0	19.79	19.84	19.87	21.5
	64QAM	1	0	19.68	19.72	19.60	21.5
		1	7	19.77	19.88	19.80	21.5
		1	14	19.70	19.78	19.79	21.5
		8	0	19.74	19.85	19.79	21.5
		8	3	19.84	20.00	19.74	21.5
		8	7	19.81	19.77	19.83	21.5
		15	0	19.79	19.79	19.90	21.5
BW	Modulation	Channel		19957	20175	20393	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1732.5	1754.3	
1.4M	QPSK	1	0	19.77	19.67	19.79	21.5
		1	2	19.95	20.02	20.02	21.5
		1	5	19.83	19.80	19.73	21.5
		3	0	19.78	19.83	19.81	21.5
		3	1	19.77	19.87	20.05	21.5
		3	3	19.86	19.91	19.90	21.5
		6	0	19.91	19.83	19.92	21.5
	16QAM	1	0	19.64	19.69	19.70	21.5
		1	2	19.86	19.79	19.78	21.5
		1	5	19.80	19.88	19.77	21.5
		3	0	19.93	19.88	19.88	21.5
		3	1	19.85	19.98	19.93	21.5
		3	3	19.80	19.90	19.80	21.5
		6	0	19.69	19.73	19.89	21.5
	64QAM	1	0	19.75	19.65	19.63	21.5
		1	2	19.82	19.81	19.70	21.5
		1	5	19.69	19.77	19.77	21.5
		3	0	19.66	19.93	19.90	21.5
		3	1	19.92	19.93	19.81	21.5
		3	3	19.80	19.78	19.92	21.5
		6	0	19.74	19.80	19.86	21.5

LTE Band 5

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20450	20525	20600	
		Frequency (MHz)		829	836.5	844	
10M	QPSK	1	0	24.23	24.35	24.32	25.5
		1	24	24.39	24.43	**24.44**	25.5
		1	49	24.25	24.27	24.34	25.5
		25	0	23.30	23.40	23.28	24.5
		25	12	23.32	23.41	23.43	24.5
		25	25	23.27	23.39	23.40	24.5
		50	0	23.29	23.35	23.36	24.5
	16QAM	1	0	23.90	23.55	23.56	24.5
		1	24	23.73	23.61	23.65	24.5
		1	49	23.53	23.54	23.55	24.5
		25	0	22.41	22.50	22.37	23.5
		25	12	22.38	22.43	22.47	23.5
		25	25	22.33	22.50	22.45	23.5
		50	0	22.37	22.48	22.41	23.5
	64QAM	1	0	22.46	22.62	22.50	23.5
		1	24	22.61	22.61	22.68	23.5
		1	49	22.49	22.46	22.56	23.5
		25	0	21.35	21.48	21.32	22.5
		25	12	21.37	21.42	21.39	22.5
		25	25	21.31	21.44	21.38	22.5
		50	0	21.33	21.47	21.35	22.5
BW	Modulation	Channel		20425	20525	20625	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5	
5M	QPSK	1	0	24.09	24.23	24.24	25.5
		1	12	24.38	24.40	24.33	25.5
		1	24	24.15	24.19	24.22	25.5
		12	0	23.15	23.36	23.21	24.5
		12	6	23.22	23.38	23.30	24.5
		12	13	23.25	23.36	23.29	24.5
		25	0	23.14	23.31	23.31	24.5
	16QAM	1	0	23.48	23.52	23.43	24.5
		1	12	23.72	23.60	23.50	24.5
		1	24	23.40	23.39	23.51	24.5
		12	0	22.40	22.45	22.24	23.5
		12	6	22.29	22.40	22.39	23.5
		12	13	22.32	22.36	22.30	23.5
		25	0	22.24	22.47	22.31	23.5
	64QAM	1	0	22.45	22.54	22.44	23.5
		1	12	22.47	22.49	22.53	23.5
		1	24	22.44	22.43	22.53	23.5
		12	0	21.28	21.47	21.31	22.5
		12	6	21.26	21.35	21.36	22.5
		12	13	21.29	21.38	21.34	22.5
		25	0	21.20	21.46	21.29	22.5
BW	Modulation	Channel		20415	20525	20635	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5	
3M	QPSK	1	0	24.18	24.25	24.29	25.5
		1	7	24.38	24.41	24.30	25.5
		1	14	24.23	24.17	24.28	25.5
		8	0	23.25	23.29	23.23	24.5
		8	3	23.23	23.39	23.39	24.5
		8	7	23.19	23.36	23.37	24.5
		15	0	23.22	23.21	23.32	24.5
	16QAM	1	0	23.49	23.54	23.44	24.5
		1	7	23.65	23.57	23.50	24.5
		1	14	23.43	23.46	23.47	24.5
		8	0	22.27	22.45	22.30	23.5
		8	3	22.30	22.41	22.34	23.5
		8	7	22.18	22.46	22.30	23.5
		15	0	22.23	22.37	22.36	23.5
	64QAM	1	0	22.37	22.55	22.46	23.5
		1	7	22.52	22.46	22.65	23.5
		1	14	22.38	22.45	22.50	23.5
		8	0	21.22	21.40	21.30	22.5
		8	3	21.30	21.34	21.37	22.5
		8	7	21.29	21.39	21.24	22.5
		15	0	21.27	21.37	21.27	22.5
BW	Modulation	Channel		20407	20525	20643	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3	
1.4M	QPSK	1	0	24.15	24.34	24.24	25.5
		1	2	24.38	24.30	24.41	25.5
		1	5	24.24	24.17	24.29	25.5
		3	0	24.21	24.38	24.18	25.5
		3	1	24.26	24.32	24.32	25.5
		3	3	24.23	24.27	24.25	25.5
		6	0	23.21	23.22	23.30	24.5
	16QAM	1	0	23.45	23.50	23.55	24.5
		1	2	23.68	23.46	23.55	24.5
		1	5	23.50	23.51	23.48	24.5
		3	0	23.31	23.48	23.26	24.5
		3	1	23.25	23.33	23.42	24.5
		3	3	23.24	23.46	23.43	24.5
		6	0	22.22	22.47	22.33	23.5
	64QAM	1	0	22.42	22.52	22.43	23.5
		1	2	22.58	22.57	22.58	23.5
		1	5	22.38	22.31	22.44	23.5
		3	0	22.23	22.39	22.20	23.5
		3	1	22.31	22.41	22.36	23.5
		3	3	22.18	22.39	22.37	23.5
		6	0	21.26	21.37	21.21	22.5

LTE Band 7

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20850	21100	21350	
		Frequency (MHz)		2510	2535	2560	
20M	QPSK	1	0	17.39	17.37	17.38	18.5
		1	50	17.62	17.42	17.45	18.5
		1	99	17.53	17.38	17.32	18.5
		50	0	17.37	17.32	17.18	18.5
		50	25	17.46	17.31	17.31	18.5
		50	50	17.34	17.18	17.18	18.5
		100	0	17.35	17.11	17.13	18.5
	16QAM	1	0	17.32	17.37	17.15	18.5
		1	50	17.32	17.22	17.09	18.5
		1	99	17.19	17.11	17.19	18.5
		50	0	17.44	17.29	17.24	18.5
		50	25	17.41	17.23	17.26	18.5
		50	50	17.49	17.16	17.22	18.5
		100	0	17.38	17.17	17.18	18.5
	64QAM	1	0	17.32	17.29	17.25	18.5
		1	50	17.16	17.44	17.30	18.5
		1	99	17.11	17.04	16.90	18.5
		50	0	17.38	17.18	17.27	18.5
		50	25	17.35	17.29	17.16	18.5
		50	50	17.32	17.06	17.22	18.5
		100	0	17.18	17.11	17.16	18.5
BW	Modulation	Channel		20825	21100	21375	Max. Tune-up (dBm)
		Frequency (MHz)		2507.5	2535	2562.5	
15M	QPSK	1	0	17.27	17.23	17.32	18.5
		1	37	17.55	17.28	17.43	18.5
		1	74	17.43	17.33	17.28	18.5
		36	0	17.34	17.29	17.03	18.5
		36	19	17.37	17.30	17.27	18.5
		36	39	17.23	17.10	17.14	18.5
		75	0	17.22	17.02	17.01	18.5
	16QAM	1	0	17.17	17.27	17.04	18.5
		1	37	17.24	17.14	17.07	18.5
		1	74	17.14	17.09	17.07	18.5
		36	0	17.35	17.28	17.11	18.5
		36	19	17.36	17.18	17.25	18.5
		36	39	17.41	17.13	17.09	18.5
		75	0	17.33	17.05	17.05	18.5
	64QAM	1	0	17.26	17.21	17.16	18.5
		1	37	17.04	17.43	17.26	18.5
		1	74	16.96	16.92	16.89	18.5
		36	0	17.25	17.06	17.17	18.5
		36	19	17.20	17.21	17.11	18.5
		36	39	17.24	17.03	17.15	18.5
		75	0	17.13	17.05	17.04	18.5
BW	Modulation	Channel		20800	21100	21400	Max. Tune-up (dBm)
		Frequency (MHz)		2505	2535	2565	
10M	QPSK	1	0	17.27	17.28	17.35	18.5
		1	24	17.54	17.40	17.44	18.5
		1	49	17.39	17.27	17.30	18.5
		25	0	17.30	17.29	17.14	18.5
		25	12	17.41	17.27	17.16	18.5
		25	25	17.33	17.14	17.13	18.5
		50	0	17.21	16.99	17.10	18.5
	16QAM	1	0	17.17	17.27	17.01	18.5
		1	24	17.21	17.13	17.04	18.5
		1	49	17.05	16.96	17.15	18.5
		25	0	17.37	17.15	17.12	18.5
		25	12	17.27	17.11	17.11	18.5
		25	25	17.41	17.08	17.07	18.5
		50	0	17.35	17.08	17.08	18.5
	64QAM	1	0	17.33	17.33	17.25	18.5
		1	24	17.17	17.55	17.29	18.5
		1	49	17.19	17.04	16.87	18.5
		25	0	17.36	17.29	17.26	18.5
		25	12	17.44	17.39	17.19	18.5
		25	25	17.29	17.17	17.25	18.5
		50	0	17.29	17.21	17.18	18.5
BW	Modulation	Channel		20775	21100	21425	Max. Tune-up (dBm)
		Frequency (MHz)		2502.5	2535	2567.5	
5M	QPSK	1	0	17.25	17.27	17.28	18.5
		1	12	17.56	17.33	17.40	18.5
		1	24	17.46	17.32	17.27	18.5
		12	0	17.23	17.25	17.03	18.5
		12	6	17.38	17.26	17.28	18.5
		12	13	17.22	17.09	17.07	18.5
		25	0	17.34	17.06	17.00	18.5
	16QAM	1	0	17.28	17.31	17.05	18.5
		1	12	17.31	17.11	17.04	18.5
		1	24	17.11	17.07	17.04	18.5
		12	0	17.39	17.18	17.19	18.5
		12	6	17.30	17.21	17.19	18.5
		12	13	17.35	17.11	17.20	18.5
		25	0	17.34	17.14	17.12	18.5
	64QAM	1	0	17.42	17.32	17.25	18.5
		1	12	17.18	17.48	17.40	18.5
		1	24	17.17	17.10	17.00	18.5
		12	0	17.40	17.20	17.32	18.5
		12	6	17.45	17.31	17.13	18.5
		12	13	17.32	17.06	17.22	18.5
		25	0	17.17	17.17	17.26	18.5

LTE Band 38

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		37850	38000	38150	
		Frequency (MHz)		2580	2595	2610	
20M	QPSK	1	0	18.48	18.63	18.66	20
		1	50	18.82	18.87	18.81	20
		1	99	18.52	18.53	18.54	20
		50	0	18.68	18.70	18.73	20
		50	25	18.75	18.79	18.77	20
		50	50	18.59	18.65	18.65	20
		100	0	18.78	18.81	18.79	20
	16QAM	1	0	18.64	18.64	18.61	20
		1	50	18.80	18.85	18.79	20
		1	99	18.58	18.49	18.54	20
		50	0	18.76	18.82	18.68	20
		50	25	18.80	18.79	18.83	20
		50	50	18.75	18.70	18.67	20
		100	0	18.71	18.81	18.77	20
	64QAM	1	0	18.57	18.59	18.51	20
		1	50	18.66	18.58	18.71	20
		1	99	18.51	18.52	18.53	20
		50	0	18.61	18.81	18.84	20
		50	25	18.67	18.84	18.71	20
		50	50	18.63	18.56	18.53	20
		100	0	18.68	18.70	18.79	20
BW	Modulation	Channel		37825	38000	38175	Max. Tune-up (dBm)
		Frequency (MHz)		2577.5	2595	2612.5	
15M	QPSK	1	0	18.35	18.58	18.52	20
		1	37	18.77	18.84	18.66	20
		1	74	18.39	18.41	18.51	20
		36	0	18.67	18.61	18.68	20
		36	19	18.73	18.73	18.71	20
		36	39	18.44	18.55	18.51	20
		75	0	18.71	18.75	18.66	20
	16QAM	1	0	18.59	18.56	18.53	20
		1	37	18.66	18.81	18.69	20
		1	74	18.47	18.34	18.39	20
		36	0	18.74	18.68	18.61	20
		36	19	18.78	18.75	18.70	20
		36	39	18.63	18.66	18.53	20
		75	0	18.70	18.75	18.71	20
	64QAM	1	0	18.56	18.45	18.43	20
		1	37	18.64	18.54	18.64	20
		1	74	18.40	18.51	18.45	20
		36	0	18.53	18.80	18.81	20
		36	19	18.63	18.77	18.70	20
		36	39	18.50	18.54	18.42	20
		75	0	18.54	18.60	18.71	20
BW	Modulation	Channel		37800	38000	38200	Max. Tune-up (dBm)
		Frequency (MHz)		2575	2595	2615	
10M	QPSK	1	0	18.37	18.60	18.61	20
		1	24	18.71	18.75	18.70	20
		1	49	18.40	18.42	18.41	20
		25	0	18.58	18.69	18.68	20
		25	12	18.69	18.65	18.73	20
		25	25	18.58	18.56	18.52	20
		50	0	18.70	18.75	18.70	20
	16QAM	1	0	18.51	18.53	18.60	20
		1	24	18.66	18.80	18.69	20
		1	49	18.55	18.46	18.43	20
		25	0	18.75	18.75	18.65	20
		25	12	18.69	18.78	18.75	20
		25	25	18.70	18.63	18.56	20
		50	0	18.56	18.77	18.67	20
	64QAM	1	0	18.44	18.56	18.44	20
		1	24	18.63	18.52	18.57	20
		1	49	18.41	18.39	18.45	20
		25	0	18.57	18.78	18.70	20
		25	12	18.59	18.70	18.62	20
		25	25	18.53	18.45	18.38	20
		50	0	18.57	18.55	18.72	20
BW	Modulation	Channel		37775	38000	38225	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5	
5M	QPSK	1	0	18.44	18.57	18.62	20
		1	12	18.78	18.72	18.77	20
		1	24	18.39	18.39	18.40	20
		12	0	18.65	18.61	18.63	20
		12	6	18.67	18.77	18.69	20
		12	13	18.50	18.52	18.54	20
		25	0	18.75	18.76	18.77	20
	16QAM	1	0	18.61	18.51	18.60	20
		1	12	18.69	18.70	18.72	20
		1	24	18.46	18.41	18.41	20
		12	0	18.72	18.72	18.57	20
		12	6	18.78	18.65	18.72	20
		12	13	18.64	18.57	18.59	20
		25	0	18.62	18.72	18.64	20
	64QAM	1	0	18.46	18.52	18.36	20
		1	12	18.58	18.56	18.69	20
		1	24	18.37	18.40	18.48	20
		12	0	18.47	18.74	18.70	20
		12	6	18.56	18.69	18.58	20
		12	13	18.61	18.49	18.43	20
		25	0	18.57	18.59	18.65	20

LTE Band 41 (2496 ~ 2690MHz)

BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	Max. Tune-up (dBm)
		Channel		39750	40185	40620	41055	41490	
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680	
20M	QPSK	1	0	18.24	18.12	18.20	18.12	17.85	19.5
		1	50	18.41	18.22	18.37	18.31	18.18	19.5
		1	99	18.08	18.06	18.08	18.00	18.04	19.5
		50	0	18.10	18.10	18.17	18.00	17.99	19.5
		50	25	18.35	18.14	18.22	18.06	18.07	19.5
		50	50	18.20	18.06	18.06	17.99	18.05	19.5
		100	0	18.25	18.13	18.16	18.19	18.17	19.5
	16QAM	1	0	18.13	18.09	18.17	17.95	17.67	19.5
		1	50	18.27	18.15	18.20	18.21	17.86	19.5
		1	99	18.02	17.91	18.02	17.95	17.82	19.5
		50	0	18.24	18.11	18.24	18.08	18.09	19.5
		50	25	18.22	18.30	18.24	18.12	18.11	19.5
		50	50	18.29	18.11	18.24	18.20	18.13	19.5
		100	0	18.25	18.08	18.30	18.30	18.08	19.5
	64QAM	1	0	17.83	17.70	17.90	17.71	17.79	19.5
		1	50	18.16	17.98	18.16	17.92	18.05	19.5
		1	99	17.75	17.87	17.76	17.81	17.72	19.5
		50	0	18.08	18.06	18.20	18.09	18.09	19.5
		50	25	18.26	18.21	18.23	18.12	18.09	19.5
		50	50	18.14	18.11	18.21	18.06	17.99	19.5
		100	0	18.30	18.17	18.27	18.15	18.13	19.5
BW	Modulation	Channel		39725	40173	40620	41068	41515	Max. Tune-up (dBm)
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5	
15M	QPSK	1	0	18.23	18.03	18.08	18.05	17.77	19.5
		1	37	18.27	18.07	18.34	18.28	18.16	19.5
		1	74	18.01	18.00	18.05	17.98	18.03	19.5
		36	0	18.04	18.01	18.09	17.93	17.90	19.5
		36	19	18.20	18.01	18.10	17.92	17.96	19.5
		36	39	18.06	18.00	18.04	17.98	18.03	19.5
		75	0	18.22	18.09	18.09	18.11	18.14	19.5
	16QAM	1	0	18.07	18.04	18.03	17.90	17.55	19.5
		1	37	18.25	18.06	18.12	18.19	17.79	19.5
		1	74	17.98	17.85	17.88	17.82	17.77	19.5
		36	0	18.21	18.00	18.13	18.03	18.04	19.5
		36	19	18.16	18.22	18.17	18.04	18.01	19.5
		36	39	18.27	17.98	18.15	18.06	18.11	19.5
		75	0	18.21	17.93	18.15	18.28	17.95	19.5
	64QAM	1	0	17.68	17.59	17.87	17.62	17.64	19.5
		1	37	18.13	17.89	18.08	17.89	18.01	19.5
		1	74	17.67	17.81	17.63	17.76	17.64	19.5
		36	0	17.93	17.93	18.17	18.03	18.03	19.5
		36	19	18.25	18.14	18.22	17.99	18.01	19.5
		36	39	18.01	17.97	18.17	18.03	17.94	19.5
		75	0	18.29	18.16	18.23	18.03	18.11	19.5
BW	Modulation	Channel		39700	40160	40620	41080	41540	Max. Tune-up (dBm)
		Frequency (MHz)		2501	2547	2593	2639	2685	
10M	QPSK	1	0	18.12	18.02	18.12	18.11	17.72	19.5
		1	24	18.30	18.20	18.33	18.16	18.09	19.5
		1	49	18.02	18.00	18.03	17.90	17.99	19.5
		25	0	18.05	18.01	18.16	17.97	17.97	19.5
		25	12	18.26	17.99	18.17	17.95	18.05	19.5
		25	25	18.18	18.03	18.04	17.97	17.97	19.5
		50	0	18.24	18.04	18.04	18.10	18.04	19.5
	16QAM	1	0	18.03	17.99	18.16	17.91	17.53	19.5
		1	24	18.13	18.11	18.09	18.13	17.72	19.5
		1	49	17.98	17.90	18.00	17.94	17.73	19.5
		25	0	18.11	17.96	18.10	18.01	18.06	19.5
		25	12	18.12	18.26	18.15	18.08	17.98	19.5
		25	25	18.28	17.98	18.19	18.15	18.11	19.5
		50	0	18.14	18.01	18.19	18.17	18.04	19.5
	64QAM	1	0	17.68	17.57	17.86	17.65	17.65	19.5
		1	24	18.01	17.94	18.08	17.82	17.91	19.5
		1	49	17.62	17.86	17.70	17.74	17.68	19.5
		25	0	17.97	18.02	18.12	18.00	17.99	19.5
		25	12	18.13	18.09	18.15	18.04	18.05	19.5
		25	25	18.03	18.03	18.18	18.04	17.98	19.5
		50	0	18.25	18.16	18.18	18.00	17.99	19.5
BW	Modulation	Channel		39675	40148	40620	41093	41565	Max. Tune-up (dBm)
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5	
5M	QPSK	1	0	18.16	18.05	18.11	17.98	17.83	19.5
		1	12	18.39	18.08	18.29	18.16	18.11	19.5
		1	24	17.96	18.02	17.99	17.85	17.92	19.5
		12	0	17.96	18.09	18.07	17.94	17.92	19.5
		12	6	18.20	18.01	18.09	17.95	17.94	19.5
		12	13	18.06	17.92	17.92	17.85	17.99	19.5
		25	0	18.14	18.11	18.13	18.13	18.06	19.5
	16QAM	1	0	18.09	18.01	18.09	17.88	17.60	19.5
		1	12	18.19	18.13	18.06	18.06	17.73	19.5
		1	24	17.89	17.90	17.97	17.81	17.76	19.5
		12	0	18.11	17.99	18.11	18.00	18.05	19.5
		12	6	18.14	18.23	18.17	18.03	18.06	19.5
		12	13	18.20	18.05	18.21	18.14	18.03	19.5
		25	0	18.18	18.02	18.25	18.26	17.94	19.5
	64QAM	1	0	17.72	17.69	17.89	17.61	17.74	19.5
		1	12	18.05	17.97	18.09	17.77	18.02	19.5
		1	24	17.74	17.83	17.65	17.72	17.59	19.5
		12	0	17.93	18.00	18.13	18.07	17.96	19.5
		12	6	18.19	18.17	18.16	18.07	18.07	19.5
		12	13	18.12	18.06	18.13	17.99	17.87	19.5
		25	0	18.29	18.03	18.12	18.13	18.00	19.5

LTE Band 66

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		132072	132322	132572	
		Frequency (MHz)		1720	1745	1770	
20M	QPSK	1	0	20.71	20.66	20.94	22.5
		1	50	21.03	21.18	21.15	22.5
		1	99	20.88	20.93	20.92	22.5
		50	0	20.91	20.96	20.98	22.5
		50	25	21.09	21.11	21.06	22.5
		50	50	21.04	20.98	20.96	22.5
		100	0	20.97	20.98	20.91	22.5
	16QAM	1	0	20.87	20.83	20.79	22.5
		1	50	20.95	20.94	20.81	22.5
		1	99	20.88	20.93	20.91	22.5
		50	0	20.86	21.03	21.04	22.5
		50	25	20.97	21.01	21.04	22.5
		50	50	20.86	20.98	20.91	22.5
		100	0	20.86	20.94	21.04	22.5
	64QAM	1	0	20.75	20.73	20.84	22.5
		1	50	20.90	20.85	20.72	22.5
		1	99	20.73	20.89	20.79	22.5
		50	0	20.76	21.05	21.05	22.5
		50	25	20.97	21.01	20.80	22.5
		50	50	20.88	20.92	20.99	22.5
		100	0	20.95	20.99	20.86	22.5
BW	Modulation	Channel		132047	132322	132597	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1745	1772.5	
15M	QPSK	1	0	20.57	20.51	20.87	22.5
		1	37	20.94	21.03	21.05	22.5
		1	74	20.85	20.78	20.83	22.5
		36	0	20.82	20.88	20.89	22.5
		36	19	20.97	21.10	20.91	22.5
		36	39	20.94	20.97	20.88	22.5
		75	0	20.86	20.88	20.90	22.5
	16QAM	1	0	20.74	20.68	20.77	22.5
		1	37	20.86	20.90	20.77	22.5
		1	74	20.74	20.87	20.90	22.5
		36	0	20.81	20.96	20.89	22.5
		36	19	20.94	20.99	21.01	22.5
		36	39	20.73	20.95	20.80	22.5
		75	0	20.79	20.93	20.90	22.5
	64QAM	1	0	20.71	20.59	20.81	22.5
		1	37	20.77	20.73	20.60	22.5
		1	74	20.63	20.81	20.76	22.5
		36	0	20.74	20.93	20.94	22.5
		36	19	20.83	20.88	20.77	22.5
		36	39	20.75	20.81	20.84	22.5
		75	0	20.85	20.93	20.84	22.5
BW	Modulation	Channel		132022	132322	132622	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1745	1775	
10M	QPSK	1	0	20.60	20.59	20.89	22.5
		1	24	20.88	21.16	21.09	22.5
		1	49	20.86	20.92	20.91	22.5
		25	0	20.90	20.92	20.86	22.5
		25	12	21.06	21.04	20.97	22.5
		25	25	20.97	20.84	20.84	22.5
		50	0	20.84	20.85	20.77	22.5
	16QAM	1	0	20.77	20.82	20.68	22.5
		1	24	20.90	20.79	20.66	22.5
		1	49	20.86	20.86	20.81	22.5
		25	0	20.75	21.00	20.92	22.5
		25	12	20.94	20.94	20.99	22.5
		25	25	20.72	20.93	20.84	22.5
		50	0	20.82	20.85	21.03	22.5
	64QAM	1	0	20.70	20.59	20.72	22.5
		1	24	20.83	20.71	20.67	22.5
		1	49	20.60	20.83	20.68	22.5
		25	0	20.71	20.95	20.91	22.5
		25	12	20.86	20.97	20.75	22.5
		25	25	20.73	20.83	20.97	22.5
		50	0	20.85	20.93	20.79	22.5
BW	Modulation	Channel		131997	132322	132647	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1745	1777.5	
5M	QPSK	1	0	20.70	20.61	20.93	22.5
		1	12	20.89	21.05	21.14	22.5
		1	24	20.77	20.91	20.89	22.5
		12	0	20.83	20.87	20.97	22.5
		12	6	21.04	21.09	20.99	22.5
		12	13	20.93	20.90	20.92	22.5
		25	0	20.84	20.94	20.82	22.5
	16QAM	1	0	20.80	20.80	20.78	22.5
		1	12	20.89	20.92	20.75	22.5
		1	24	20.79	20.78	20.81	22.5
		12	0	20.75	20.89	20.93	22.5
		12	6	20.86	20.87	20.94	22.5
		12	13	20.80	20.85	20.81	22.5
		25	0	20.85	20.91	21.01	22.5
	64QAM	1	0	20.69	20.71	20.80	22.5
		1	12	20.76	20.80	20.58	22.5
		1	24	20.69	20.81	20.71	22.5
		12	0	20.65	20.94	20.98	22.5
		12	6	20.91	20.93	20.66	22.5
		12	13	20.76	20.82	20.98	22.5
		25	0	20.94	20.86	20.73	22.5
BW	Modulation	Channel		131987	132322	132657	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1745	1778.5	
3M	QPSK	1	0	20.66	20.52	20.79	22.5
		1	7	20.97	21.14	21.04	22.5
		1	14	20.83	20.85	20.89	22.5
		8	0	20.78	20.90	20.90	22.5
		8	3	20.96	21.06	20.95	22.5
		8	7	20.97	20.95	20.93	22.5
		15	0	20.88	20.89	20.87	22.5
	16QAM	1	0	20.86	20.68	20.72	22.5
		1	7	20.86	20.83	20.76	22.5
		1	14	20.76	20.87	20.88	22.5
		8	0	20.85	20.93	20.96	22.5
		8	3	20.96	21.00	21.03	22.5
		8	7	20.80	20.87	20.86	22.5
		15	0	20.81	20.80	20.89	22.5
	64QAM	1	0	20.73	20.60	20.71	22.5
		1	7	20.79	20.74	20.65	22.5
		1	14	20.59	20.85	20.70	22.5
		8	0	20.64	20.98	20.97	22.5
		8	3	20.83	20.99	20.76	22.5
		8	7	20.83	20.84	20.88	22.5
		15	0	20.92	20.85	20.83	22.5
BW	Modulation	Channel		131979	132322	132665	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1745	1779.3	
1.4M	QPSK	1	0	20.62	20.54	20.82	22.5
		1	2	20.88	21.09	21.01	22.5
		1	5	20.78	20.88	20.80	22.5
		3	0	20.90	20.83	20.92	22.5
		3	1	20.97	20.97	21.02	22.5
		3	3	20.99	20.93	20.85	22.5
		6	0	20.84	20.86	20.82	22.5
	16QAM	1	0	20.77	20.74	20.77	22.5
		1	2	20.80	20.91	20.79	22.5
		1	5	20.84	20.81	20.89	22.5
		3	0	20.84	20.94	21.01	22.5
		3	1	20.95	20.86	20.99	22.5
		3	3	20.71	20.83	20.81	22.5
		6	0	20.72	20.79	20.93	22.5
	64QAM	1	0	20.71	20.67	20.70	22.5
		1	2	20.87	20.79	20.57	22.5
		1	5	20.69	20.81	20.78	22.5
		3	0	20.73	20.94	20.93	22.5
		3	1	20.92	20.99	20.67	22.5
		3	3	20.76	20.87	20.98	22.5
		6	0	20.87	20.89	20.80	22.5

GSM&WCDMA Default

Ant4

Band	GSM850				GSM1900			
Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8	
GSM	32.20	32.37	**32.43**	33.50	29.30	29.41	**29.44**	30.50
GPRS 1Tx Slot	32.19	32.31	32.36	33.50	29.23	29.40	29.41	30.50
GPRS 2Tx Slot	28.81	28.92	29.05	30.00	25.57	25.77	25.99	26.50
GPRS 3Tx Slot	27.32	27.45	27.62	28.50	23.73	23.96	24.26	25.00
GPRS 4Tx Slot	26.27	26.40	26.54	27.50	22.77	23.00	23.33	24.00
EDGE 1Tx Slot	26.88	26.94	26.77	28.00	25.94	26.10	26.05	27.00
EDGE 2Tx Slot	23.63	23.66	23.42	25.00	22.89	23.12	23.04	24.00
EDGE 3Tx Slot	21.86	21.88	21.68	23.00	21.10	21.46	21.32	22.00
EDGE 4Tx Slot	21.03	20.98	21.04	22.00	20.16	20.35	20.28	21.00

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)
Channel	128	189	251		512	661	810	
GSM	23.20	23.37	23.43	24.50	20.30	20.41	20.44	21.50
GPRS 1Tx Slot	23.19	23.31	23.36	24.50	20.23	20.40	20.41	21.50
GPRS 2Tx Slot	22.81	22.92	23.05	24.00	19.57	19.77	19.99	20.50
GPRS 3Tx Slot	23.06	23.19	23.36	24.24	19.47	19.70	20.00	20.74
GPRS 4Tx Slot	23.27	23.40	23.54	24.50	19.77	20.00	20.33	21.00
EDGE 1Tx Slot	17.88	17.94	17.77	19.00	16.94	17.10	17.05	18.00
EDGE 2Tx Slot	17.63	17.66	17.42	19.00	16.89	17.12	17.04	18.00
EDGE 3Tx Slot	17.60	17.62	17.42	18.74	16.84	17.20	17.06	17.74
EDGE 4Tx Slot	18.03	17.98	18.04	19.00	17.16	17.35	17.28	18.00

Band	WCDMA II			WCDMA II	WCDMA IV			WCDMA IV	WCDMA V			WCDMA V
TX Channel	9262	9400	9538	Max. Tune-up Power (dBm)	1312	1413	1513	Max. Tune-up Power (dBm)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	24.28	24.36	**24.45**	**25.50**	**24.46**	24.44	24.41	**25.50**	24.17	24.19	**24.25**	**25.50**
HSDPA Subtest-1	23.41	23.45	23.61	24.00	23.64	23.61	23.54	24.00	23.26	23.35	23.43	24.00
HSDPA Subtest-2	23.39	23.50	23.59	24.00	23.56	23.58	23.56	24.00	23.37	23.36	23.42	24.00
HSDPA Subtest-3	22.91	22.97	23.14	24.00	23.16	23.12	23.03	24.00	22.77	22.80	22.88	24.00
HSDPA Subtest-4	22.98	23.06	23.07	24.00	23.15	23.11	23.06	24.00	22.84	22.78	22.87	24.00
DC-HSDPA Subtest-1	23.48	23.47	23.59	24.00	23.59	23.56	23.58	24.00	23.33	23.35	23.35	24.00
DC-HSDPA Subtest-2	23.45	23.53	23.61	24.00	23.65	23.57	23.54	24.00	23.34	23.32	23.39	24.00
DC-HSDPA Subtest-3	22.88	23.02	23.12	24.00	23.13	23.12	23.08	24.00	22.87	22.89	22.93	24.00
DC-HSDPA Subtest-4	22.95	22.96	23.07	24.00	23.12	23.09	23.04	24.00	22.79	22.81	22.90	24.00
HSUPA Subtest-1	21.59	21.68	21.84	23.00	21.78	21.76	21.71	23.00	21.51	21.55	21.58	23.00
HSUPA Subtest-2	21.32	21.45	21.49	23.00	21.52	21.44	21.41	23.00	21.16	21.29	21.27	23.00
HSUPA Subtest-3	22.21	22.35	22.43	23.00	22.43	22.35	22.40	23.00	22.13	22.10	22.24	23.00
HSUPA Subtest-4	21.17	21.08	21.18	23.00	21.23	21.14	21.11	23.00	21.10	21.16	21.20	23.00
HSUPA Subtest-5	22.22	22.34	22.40	23.00	22.36	22.33	22.33	23.00	22.13	22.08	22.15	23.00
HSPA+ Subtest-1	21.54	21.62	21.74	23.00	21.65	21.67	21.71	23.00	21.38	21.41	21.55	23.00

LTE Default
Ant4

LTE Band 2

BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		18700	18900	19100		
		Frequency (MHz)		1860	1880	1900		
20M	QPSK	1	0	23.70	23.75	23.77	0	25.5
		1	50	**24.15**	24.14	24.13	0	25.5
		1	99	23.72	23.73	23.81	0	25.5
		50	0	22.94	23.06	23.02	1	24.5
		50	25	23.10	23.09	23.05	1	24.5
		50	50	23.07	23.08	23.04	1	24.5
		100	0	23.08	23.06	22.97	1	24.5
	16QAM	1	0	22.90	22.96	23.10	1	24.5
		1	50	23.36	23.48	23.40	1	24.5
		1	99	23.04	22.99	23.05	1	24.5
		50	0	22.01	22.21	22.04	2	23.5
		50	25	22.12	22.23	22.16	2	23.5
		50	50	22.13	22.14	21.92	2	23.5
		100	0	22.07	22.16	21.99	2	23.5
	64QAM	1	0	21.87	22.00	21.98	2	23.5
		1	50	22.30	22.39	22.38	2	23.5
		1	99	22.05	21.95	22.03	2	23.5
		50	0	20.98	21.16	21.04	3	22.5
		50	25	21.08	21.20	21.13	3	22.5
		50	50	21.15	21.14	20.91	3	22.5
		100	0	21.05	21.17	20.97	3	22.5
BW	Modulation	Channel		18675	18900	19125	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1857.5	1880	1902.5		
15M	QPSK	1	0	23.61	23.61	23.71	0	25.5
		1	37	24.01	24.05	24.01	0	25.5
		1	74	23.60	23.60	23.69	0	25.5
		36	0	22.90	23.05	23.00	1	24.5
		36	19	23.05	23.01	22.95	1	24.5
		36	39	23.01	23.00	22.97	1	24.5
		75	0	23.04	23.04	22.94	1	24.5
	16QAM	1	0	22.75	22.85	22.97	1	24.5
		1	37	23.26	23.42	23.37	1	24.5
		1	74	22.89	22.88	22.97	1	24.5
		36	0	21.88	22.15	21.95	2	23.5
		36	19	22.00	22.20	22.14	2	23.5
		36	39	22.02	22.00	21.80	2	23.5
		75	0	21.97	22.08	21.95	2	23.5
	64QAM	1	0	21.82	21.99	21.90	2	23.5
		1	37	22.29	22.28	22.24	2	23.5
		1	74	22.01	21.92	21.96	2	23.5
		36	0	20.84	21.09	20.89	3	22.5
		36	19	20.94	21.10	21.01	3	22.5
		36	39	21.05	20.99	20.83	3	22.5
		75	0	20.90	21.06	20.93	3	22.5
BW	Modulation	Channel		18650	18900	19150	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1855	1880	1905		
10M	QPSK	1	0	23.57	23.66	23.71	0	25.5
		1	24	24.11	23.99	23.99	0	25.5
		1	49	23.71	23.72	23.76	0	25.5
		25	0	22.79	23.01	22.88	1	24.5
		25	12	23.08	23.06	22.92	1	24.5
		25	25	22.95	23.07	22.94	1	24.5
		50	0	23.00	22.91	22.87	1	24.5
	16QAM	1	0	22.86	22.89	22.97	1	24.5
		1	24	23.27	23.40	23.37	1	24.5
		1	49	22.95	22.90	23.02	1	24.5
		25	0	21.96	22.13	21.90	2	23.5
		25	12	22.08	22.11	22.06	2	23.5
		25	25	22.00	22.05	21.79	2	23.5
		50	0	21.97	22.14	21.98	2	23.5
	64QAM	1	0	21.81	21.89	21.97	2	23.5
		1	24	22.15	22.25	22.24	2	23.5
		1	49	21.96	21.85	21.92	2	23.5
		25	0	20.86	21.12	20.94	3	22.5
		25	12	20.95	21.11	21.02	3	22.5
		25	25	21.07	21.06	20.88	3	22.5
		50	0	21.04	21.13	20.89	3	22.5
BW	Modulation	Channel		18625	18900	19175	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1852.5	1880	1907.5		
5M	QPSK	1	0	23.62	23.64	23.70	0	25.5
		1	12	24.09	24.01	23.98	0	25.5
		1	24	23.68	23.71	23.69	0	25.5
		12	0	22.89	23.00	22.88	1	24.5
		12	6	22.97	23.02	23.02	1	24.5
		12	13	23.03	22.95	22.95	1	24.5
		25	0	23.02	22.98	22.94	1	24.5
	16QAM	1	0	22.87	22.90	23.04	1	24.5
		1	12	23.29	23.46	23.25	1	24.5
		1	24	23.03	22.87	22.98	1	24.5
		12	0	21.98	22.19	21.91	2	23.5
		12	6	22.00	22.17	22.10	2	23.5
		12	13	22.00	22.12	21.83	2	23.5
		25	0	21.98	22.03	21.91	2	23.5
	64QAM	1	0	21.77	21.96	21.85	2	23.5
		1	12	22.24	22.34	22.35	2	23.5
		1	24	21.95	21.81	21.88	2	23.5
		12	0	20.97	21.13	20.93	3	22.5
		12	6	20.96	21.08	21.08	3	22.5
		12	13	21.01	21.04	20.82	3	22.5
		25	0	20.92	21.02	20.92	3	22.5
BW	Modulation	Channel		18615	18900	19185	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1851.5	1880	1908.5		
3M	QPSK	1	0	23.67	23.70	23.70	0	25.5
		1	7	24.02	24.11	24.04	0	25.5
		1	14	23.60	23.66	23.67	0	25.5
		8	0	22.87	23.02	22.90	1	24.5
		8	3	23.04	22.95	22.99	1	24.5
		8	7	23.03	23.02	23.00	1	24.5
		15	0	23.05	23.02	22.91	1	24.5
	16QAM	1	0	22.86	22.81	23.07	1	24.5
		1	7	23.31	23.44	23.28	1	24.5
		1	14	22.99	22.98	22.92	1	24.5
		8	0	21.90	22.10	22.01	2	23.5
		8	3	22.11	22.09	22.04	2	23.5
		8	7	22.12	22.06	21.77	2	23.5
		15	0	22.04	22.13	21.92	2	23.5
	64QAM	1	0	21.84	21.89	21.84	2	23.5
		1	7	22.25	22.28	22.36	2	23.5
		1	14	21.95	21.80	21.88	2	23.5
		8	0	20.92	21.08	21.00	3	22.5
		8	3	20.99	21.17	21.08	3	22.5
		8	7	21.13	21.10	20.85	3	22.5
		15	0	21.02	21.05	20.88	3	22.5
BW	Modulation	Channel		18607	18900	19193	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1850.7	1880	1909.3		
1.4M	QPSK	1	0	23.68	23.70	23.66	0	25.5
		1	2	24.03	24.11	24.05	0	25.5
		1	5	23.71	23.72	23.69	0	25.5
		3	0	23.63	23.80	23.80	0	25.5
		3	1	23.86	23.80	23.76	0	25.5
		3	3	23.74	23.79	23.72	0	25.5
		6	0	23.05	23.04	22.92	1	24.5
	16QAM	1	0	22.79	22.92	23.02	1	24.5
		1	2	23.35	23.35	23.26	1	24.5
		1	5	23.03	22.91	22.94	1	24.5
		3	0	22.71	22.89	22.74	1	24.5
		3	1	22.79	23.02	22.85	1	24.5
		3	3	22.84	22.86	22.62	1	24.5
		6	0	22.03	22.14	21.96	2	23.5
	64QAM	1	0	21.77	21.94	21.88	2	23.5
		1	2	22.26	22.27	22.31	2	23.5
		1	5	21.96	21.86	21.93	2	23.5
		3	0	21.71	21.89	21.81	2	23.5
		3	1	21.86	21.97	21.82	2	23.5
		3	3	21.90	21.88	21.62	2	23.5
		6	0	20.93	21.13	20.85	3	22.5

LTE Band 4

BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20050	20175	20300		
		Frequency (MHz)		1720	1732.5	1745		
20M	QPSK	1	0	23.75	23.80	23.84	0	25.5
		1	50	23.94	24.02	**24.05**	0	25.5
		1	99	23.71	23.70	23.78	0	25.5
		50	0	22.98	23.00	23.01	1	24.5
		50	25	23.05	23.06	23.07	1	24.5
		50	50	23.01	23.03	23.04	1	24.5
		100	0	22.99	23.02	23.03	1	24.5
	16QAM	1	0	22.88	22.86	22.83	1	24.5
		1	50	23.23	23.30	23.34	1	24.5
		1	99	22.93	22.97	22.94	1	24.5
		50	0	21.95	21.99	21.99	2	23.5
		50	25	22.04	22.06	22.06	2	23.5
		50	50	22.01	22.05	22.02	2	23.5
		100	0	21.94	22.03	22.00	2	23.5
	64QAM	1	0	21.73	21.81	21.85	2	23.5
		1	50	22.25	22.25	22.27	2	23.5
		1	99	21.90	21.96	21.91	2	23.5
		50	0	20.92	20.96	20.94	3	22.5
		50	25	20.99	21.05	21.02	3	22.5
		50	50	20.97	21.03	20.97	3	22.5
		100	0	20.93	21.02	20.98	3	22.5
BW	Modulation	Channel		20025	20175	20325	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1732.5	1747.5		
15M	QPSK	1	0	23.72	23.74	23.83	0	25.5
		1	37	23.81	23.92	23.92	0	25.5
		1	74	23.70	23.66	23.63	0	25.5
		36	0	22.96	22.99	22.86	1	24.5
		36	19	22.94	23.01	22.98	1	24.5
		36	39	22.87	22.95	22.96	1	24.5
		75	0	22.85	23.01	22.99	1	24.5
	16QAM	1	0	22.74	22.77	22.76	1	24.5
		1	37	23.11	23.20	23.24	1	24.5
		1	74	22.88	22.91	22.88	1	24.5
		36	0	21.94	21.89	21.95	2	23.5
		36	19	21.89	21.97	21.95	2	23.5
		36	39	21.87	21.99	21.99	2	23.5
		75	0	21.82	22.01	21.97	2	23.5
	64QAM	1	0	21.65	21.70	21.76	2	23.5
		1	37	22.21	22.18	22.26	2	23.5
		1	74	21.81	21.85	21.80	2	23.5
		36	0	20.86	20.89	20.88	3	22.5
		36	19	20.93	20.96	20.91	3	22.5
		36	39	20.95	21.02	20.96	3	22.5
		75	0	20.85	20.90	20.93	3	22.5
BW	Modulation	Channel		20000	20175	20350	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1732.5	1750		
10M	QPSK	1	0	23.62	23.76	23.71	0	25.5
		1	24	23.79	24.00	24.01	0	25.5
		1	49	23.59	23.68	23.69	0	25.5
		25	0	22.84	22.87	22.98	1	24.5
		25	12	22.92	22.93	22.99	1	24.5
		25	25	22.96	22.91	22.94	1	24.5
		50	0	22.89	22.95	22.98	1	24.5
	16QAM	1	0	22.85	22.78	22.81	1	24.5
		1	24	23.11	23.19	23.23	1	24.5
		1	49	22.90	22.87	22.90	1	24.5
		25	0	21.85	21.88	21.90	2	23.5
		25	12	21.99	22.05	22.01	2	23.5
		25	25	21.87	21.93	21.88	2	23.5
		50	0	21.83	22.01	21.91	2	23.5
	64QAM	1	0	21.68	21.79	21.74	2	23.5
		1	24	22.11	22.13	22.20	2	23.5
		1	49	21.76	21.88	21.79	2	23.5
		25	0	20.86	20.86	20.86	3	22.5
		25	12	20.98	21.00	20.95	3	22.5
		25	25	20.85	20.96	20.92	3	22.5
		50	0	20.85	20.94	20.97	3	22.5
BW	Modulation	Channel		19975	20175	20375	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1732.5	1752.5		
5M	QPSK	1	0	23.71	23.77	23.72	0	25.5
		1	12	23.79	23.97	23.98	0	25.5
		1	24	23.69	23.66	23.64	0	25.5
		12	0	22.87	22.86	22.98	1	24.5
		12	6	22.96	23.01	23.05	1	24.5
		12	13	22.98	22.97	22.97	1	24.5
		25	0	22.92	22.89	22.89	1	24.5
	16QAM	1	0	22.83	22.84	22.80	1	24.5
		1	12	23.21	23.21	23.23	1	24.5
		1	24	22.84	22.92	22.92	1	24.5
		12	0	21.93	21.84	21.94	2	23.5
		12	6	21.95	21.95	21.96	2	23.5
		12	13	21.91	22.03	21.88	2	23.5
		25	0	21.88	21.90	21.91	2	23.5
	64QAM	1	0	21.68	21.77	21.73	2	23.5
		1	12	22.18	22.11	22.15	2	23.5
		1	24	21.79	21.94	21.79	2	23.5
		12	0	20.88	20.90	20.84	3	22.5
		12	6	20.87	20.91	20.91	3	22.5
		12	13	20.87	20.90	20.92	3	22.5
		25	0	20.80	20.92	20.95	3	22.5
BW	Modulation	Channel		19965	20175	20385	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1732.5	1753.5		
3M	QPSK	1	0	23.67	23.78	23.78	0	25.5
		1	7	23.80	23.90	23.97	0	25.5
		1	14	23.64	23.59	23.76	0	25.5
		8	0	22.89	22.96	22.92	1	24.5
		8	3	22.95	23.00	23.05	1	24.5
		8	7	22.90	23.02	22.96	1	24.5
		15	0	22.89	22.99	22.91	1	24.5
	16QAM	1	0	22.77	22.71	22.73	1	24.5
		1	7	23.13	23.17	23.19	1	24.5
		1	14	22.78	22.82	22.90	1	24.5
		8	0	21.81	21.90	21.95	2	23.5
		8	3	21.93	21.96	21.91	2	23.5
		8	7	21.89	21.95	21.97	2	23.5
		15	0	21.80	21.89	21.91	2	23.5
	64QAM	1	0	21.64	21.71	21.83	2	23.5
		1	7	22.15	22.10	22.19	2	23.5
		1	14	21.86	21.82	21.89	2	23.5
		8	0	20.81	20.90	20.89	3	22.5
		8	3	20.95	20.90	20.96	3	22.5
		8	7	20.96	20.92	20.88	3	22.5
		15	0	20.82	20.91	20.87	3	22.5
BW	Modulation	Channel		19957	20175	20393	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1732.5	1754.3		
1.4M	QPSK	1	0	23.70	23.70	23.69	0	25.5
		1	2	23.88	23.91	23.91	0	25.5
		1	5	23.62	23.56	23.69	0	25.5
		3	0	23.78	23.73	23.75	0	25.5
		3	1	23.81	23.73	23.81	0	25.5
		3	3	23.74	23.83	23.80	0	25.5
		6	0	22.95	22.88	22.93	1	24.5
	16QAM	1	0	22.78	22.83	22.75	1	24.5
		1	2	23.20	23.29	23.19	1	24.5
		1	5	22.84	22.86	22.82	1	24.5
		3	0	22.75	22.67	22.78	1	24.5
		3	1	22.72	22.78	22.83	1	24.5
		3	3	22.75	22.80	22.80	1	24.5
		6	0	21.79	21.94	21.86	2	23.5
	64QAM	1	0	21.59	21.73	21.79	2	23.5
		1	2	22.14	22.14	22.20	2	23.5
		1	5	21.83	21.95	21.77	2	23.5
		3	0	21.59	21.67	21.74	2	23.5
		3	1	21.71	21.85	21.76	2	23.5
		3	3	21.68	21.75	21.69	2	23.5
		6	0	20.84	20.97	20.84	3	22.5

LTE Band 5

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	24.05	24.04	24.11	0	25.5
		1	24	24.20	24.13	**24.21**	0	25.5
		1	49	24.12	23.96	24.14	0	25.5
		25	0	23.14	23.12	23.07	1	24.5
		25	12	23.15	23.14	23.22	1	24.5
		25	25	23.09	23.07	23.18	1	24.5
		50	0	23.12	23.10	23.14	1	24.5
	16QAM	1	0	23.33	23.31	23.30	1	24.5
		1	24	23.50	23.33	23.47	1	24.5
		1	49	23.26	23.30	23.38	1	24.5
		25	0	22.19	22.19	22.14	2	23.5
		25	12	22.20	22.15	22.28	2	23.5
		25	25	22.17	22.16	22.22	2	23.5
		50	0	22.16	22.18	22.18	2	23.5
	64QAM	1	0	22.27	22.28	22.28	2	23.5
		1	24	22.36	22.34	22.56	2	23.5
		1	49	22.32	22.24	22.37	2	23.5
		25	0	21.15	21.12	21.13	3	22.5
		25	12	21.18	21.17	21.21	3	22.5
		25	25	21.14	21.20	21.20	3	22.5
		50	0	21.17	21.22	21.17	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	23.95	23.97	24.01	0	25.5
		1	12	24.15	24.03	24.07	0	25.5
		1	24	24.02	23.84	24.10	0	25.5
		12	0	23.05	23.06	23.04	1	24.5
		12	6	23.05	23.00	23.09	1	24.5
		12	13	23.08	23.06	23.17	1	24.5
		25	0	23.10	23.00	23.13	1	24.5
	16QAM	1	0	23.31	23.30	23.18	1	24.5
		1	12	23.38	23.24	23.44	1	24.5
		1	24	23.21	23.19	23.37	1	24.5
		12	0	22.10	22.05	22.10	2	23.5
		12	6	22.18	22.09	22.27	2	23.5
		12	13	22.07	22.13	22.12	2	23.5
		25	0	22.04	22.05	22.14	2	23.5
	64QAM	1	0	22.23	22.25	22.25	2	23.5
		1	12	22.22	22.30	22.46	2	23.5
		1	24	22.23	22.16	22.29	2	23.5
		12	0	21.07	21.08	21.03	3	22.5
		12	6	21.17	21.08	21.19	3	22.5
		12	13	21.03	21.05	21.06	3	22.5
		25	0	21.11	21.15	21.05	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	24.00	23.98	23.98	0	25.5
		1	7	24.09	23.98	24.07	0	25.5
		1	14	24.10	23.87	24.08	0	25.5
		8	0	23.12	23.09	22.99	1	24.5
		8	3	23.06	22.99	23.18	1	24.5
		8	7	23.03	23.03	23.16	1	24.5
		15	0	23.06	22.98	23.06	1	24.5
	16QAM	1	0	23.26	23.19	23.20	1	24.5
		1	7	23.42	23.24	23.42	1	24.5
		1	14	23.13	23.27	23.34	1	24.5
		8	0	22.11	22.11	22.07	2	23.5
		8	3	22.13	22.04	22.26	2	23.5
		8	7	22.14	22.05	22.08	2	23.5
		15	0	22.14	22.15	22.03	2	23.5
	64QAM	1	0	22.22	22.22	22.24	2	23.5
		1	7	22.25	22.23	22.55	2	23.5
		1	14	22.29	22.23	22.29	2	23.5
		8	0	21.06	21.02	21.05	3	22.5
		8	3	21.17	21.09	21.12	3	22.5
		8	7	21.08	21.16	21.18	3	22.5
		15	0	21.14	21.07	21.14	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	24.04	23.99	24.06	0	25.5
		1	2	24.15	23.98	24.20	0	25.5
		1	5	23.97	23.84	24.06	0	25.5
		3	0	24.11	24.10	23.98	0	25.5
		3	1	24.07	24.08	24.11	0	25.5
		3	3	24.08	24.00	24.16	0	25.5
		6	0	23.08	23.03	23.08	1	24.5
	16QAM	1	0	23.25	23.28	23.27	1	24.5
		1	2	23.40	23.31	23.46	1	24.5
		1	5	23.24	23.19	23.26	1	24.5
		3	0	23.08	23.04	23.00	1	24.5
		3	1	23.10	23.06	23.26	1	24.5
		3	3	23.06	23.09	23.16	1	24.5
		6	0	22.10	22.15	22.06	2	23.5
	64QAM	1	0	22.23	22.24	22.23	2	23.5
		1	2	22.21	22.28	22.42	2	23.5
		1	5	22.23	22.23	22.22	2	23.5
		3	0	22.07	22.10	22.03	2	23.5
		3	1	22.16	22.04	22.12	2	23.5
		3	3	22.13	22.11	22.16	2	23.5
		6	0	21.05	21.20	21.14	3	22.5

LTE Band 7

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	23.16	23.19	23.21	0	25
		1	50	23.33	23.27	23.24	0	25
		1	99	23.18	23.21	23.15	0	25
		50	0	22.32	22.17	22.24	1	24
		50	25	22.37	22.13	22.15	1	24
		50	50	22.42	22.24	22.39	1	24
		100	0	22.36	22.21	22.25	1	24
	16QAM	1	0	22.40	22.16	22.22	1	24
		1	50	22.56	22.33	22.29	1	24
		1	99	22.14	22.19	22.21	1	24
		50	0	21.29	21.22	21.23	2	23
		50	25	21.32	21.27	21.19	2	23
		50	50	21.38	21.19	21.28	2	23
		100	0	21.34	21.28	21.31	2	23
	64QAM	1	0	21.38	21.17	21.19	2	23
		1	50	21.44	21.24	21.25	2	23
		1	99	21.23	21.19	21.30	2	23
		50	0	20.28	20.17	20.25	3	22
		50	25	20.30	20.28	20.27	3	22
		50	50	20.37	20.19	20.32	3	22
		100	0	20.30	20.22	20.18	3	22
BW	Modulation	Channel		20825	21100	21375	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2507.5	2535	2562.5		
15M	QPSK	1	0	23.04	23.15	23.07	0	25
		1	37	23.29	23.17	23.19	0	25
		1	74	23.11	23.09	23.02	0	25
		36	0	22.18	22.05	22.14	1	24
		36	19	22.31	22.12	22.10	1	24
		36	39	22.35	22.21	22.38	1	24
		75	0	22.35	22.06	22.15	1	24
	16QAM	1	0	22.25	22.05	22.11	1	24
		1	37	22.47	22.21	22.17	1	24
		1	74	22.05	22.10	22.19	1	24
		36	0	21.24	21.21	21.11	2	23
		36	19	21.23	21.13	21.06	2	23
		36	39	21.35	21.08	21.13	2	23
		75	0	21.22	21.19	21.30	2	23
	64QAM	1	0	21.27	21.04	21.04	2	23
		1	37	21.34	21.21	21.17	2	23
		1	74	21.10	21.14	21.27	2	23
		36	0	20.22	20.13	20.10	3	22
		36	19	20.16	20.22	20.21	3	22
		36	39	20.34	20.09	20.27	3	22
		75	0	20.27	20.12	20.10	3	22
BW	Modulation	Channel		20800	21100	21400	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2505	2535	2565		
10M	QPSK	1	0	23.10	23.14	23.08	0	25
		1	24	23.27	23.14	23.13	0	25
		1	49	23.12	23.08	23.08	0	25
		25	0	22.21	22.15	22.17	1	24
		25	12	22.33	22.09	22.10	1	24
		25	25	22.28	22.19	22.34	1	24
		50	0	22.30	22.06	22.16	1	24
	16QAM	1	0	22.26	22.11	22.11	1	24
		1	24	22.42	22.29	22.24	1	24
		1	49	22.11	22.09	22.12	1	24
		25	0	21.15	21.09	21.12	2	23
		25	12	21.22	21.26	21.08	2	23
		25	25	21.23	21.17	21.21	2	23
		50	0	21.21	21.14	21.19	2	23
	64QAM	1	0	21.30	21.14	21.04	2	23
		1	24	21.32	21.12	21.16	2	23
		1	49	21.19	21.14	21.19	2	23
		25	0	20.27	20.03	20.20	3	22
		25	12	20.26	20.24	20.13	3	22
		25	25	20.36	20.13	20.17	3	22
		50	0	20.21	20.15	20.05	3	22
BW	Modulation	Channel		20775	21100	21425	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2502.5	2535	2567.5		
5M	QPSK	1	0	23.10	23.09	23.17	0	25
		1	12	23.20	23.22	23.20	0	25
		1	24	23.17	23.14	23.09	0	25
		12	0	22.22	22.03	22.16	1	24
		12	6	22.34	22.08	22.06	1	24
		12	13	22.33	22.21	22.24	1	24
		25	0	22.23	22.14	22.24	1	24
	16QAM	1	0	22.34	22.04	22.18	1	24
		1	12	22.45	22.19	22.28	1	24
		1	24	22.04	22.16	22.08	1	24
		12	0	21.28	21.16	21.09	2	23
		12	6	21.20	21.25	21.13	2	23
		12	13	21.35	21.09	21.15	2	23
		25	0	21.23	21.22	21.21	2	23
	64QAM	1	0	21.26	21.05	21.16	2	23
		1	12	21.37	21.16	21.24	2	23
		1	24	21.10	21.13	21.17	2	23
		12	0	20.13	20.06	20.23	3	22
		12	6	20.26	20.22	20.16	3	22
		12	13	20.28	20.14	20.24	3	22
		25	0	20.19	20.12	20.16	3	22

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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	23.21	23.17	23.18	0	25
		1	50	23.41	23.48	23.37	0	25
		1	99	23.25	23.16	23.14	0	25
		50	0	22.17	22.35	22.25	1	24
		50	25	22.34	22.37	22.27	1	24
		50	50	22.33	22.27	22.16	1	24
		100	0	22.33	22.36	22.26	1	24
	16QAM	1	0	22.18	22.30	22.29	1	24
		1	50	22.56	22.60	22.44	1	24
		1	99	22.21	22.35	22.16	1	24
		50	0	21.33	21.42	21.39	2	23
		50	25	21.41	21.44	21.36	2	23
		50	50	21.40	21.36	21.22	2	23
		100	0	21.36	21.37	21.32	2	23
	64QAM	1	0	21.18	21.15	21.23	2	23
		1	50	21.21	21.33	21.29	2	23
		1	99	21.17	21.16	21.15	2	23
		50	0	20.26	20.36	20.30	3	22
		50	25	20.37	20.38	20.31	3	22
		50	50	20.31	20.28	20.16	3	22
		100	0	20.33	20.35	20.25	3	22
BW	Modulation	Channel		37825	38000	38175	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2577.5	2595	2612.5		
15M	QPSK	1	0	23.17	23.05	23.12	0	25
		1	37	23.30	23.46	23.33	0	25
		1	74	23.15	23.11	23.05	0	25
		36	0	22.10	22.25	22.20	1	24
		36	19	22.25	22.33	22.23	1	24
		36	39	22.26	22.15	22.14	1	24
		75	0	22.31	22.23	22.11	1	24
	16QAM	1	0	22.14	22.17	22.23	1	24
		1	37	22.41	22.49	22.41	1	24
		1	74	22.13	22.25	22.06	1	24
		36	0	21.23	21.40	21.30	2	23
		36	19	21.38	21.36	21.29	2	23
		36	39	21.34	21.28	21.21	2	23
		75	0	21.27	21.24	21.31	2	23
	64QAM	1	0	21.07	21.13	21.21	2	23
		1	37	21.18	21.31	21.14	2	23
		1	74	21.02	21.13	21.02	2	23
		36	0	20.25	20.21	20.16	3	22
		36	19	20.24	20.30	20.21	3	22
		36	39	20.19	20.24	20.04	3	22
		75	0	20.24	20.26	20.11	3	22
BW	Modulation	Channel		37800	38000	38200	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2575	2595	2615		
10M	QPSK	1	0	23.13	23.10	23.14	0	25
		1	24	23.40	23.38	23.23	0	25
		1	49	23.20	23.12	23.01	0	25
		25	0	22.02	22.29	22.14	1	24
		25	12	22.20	22.22	22.25	1	24
		25	25	22.21	22.25	22.14	1	24
		50	0	22.24	22.24	22.12	1	24
	16QAM	1	0	22.07	22.25	22.14	1	24
		1	24	22.43	22.50	22.38	1	24
		1	49	22.06	22.34	22.10	1	24
		25	0	21.21	21.28	21.24	2	23
		25	12	21.40	21.43	21.21	2	23
		25	25	21.31	21.33	21.07	2	23
		50	0	21.23	21.30	21.24	2	23
	64QAM	1	0	21.17	21.01	21.19	2	23
		1	24	21.10	21.26	21.22	2	23
		1	49	21.10	21.09	21.01	2	23
		25	0	20.12	20.29	20.28	3	22
		25	12	20.24	20.35	20.22	3	22
		25	25	20.30	20.24	20.14	3	22
		50	0	20.25	20.22	20.11	3	22
BW	Modulation	Channel		37775	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5		
5M	QPSK	1	0	23.19	23.13	23.13	0	25
		1	12	23.40	23.33	23.30	0	25
		1	24	23.18	23.13	23.08	0	25
		12	0	22.15	22.32	22.17	1	24
		12	6	22.28	22.23	22.12	1	24
		12	13	22.32	22.14	22.03	1	24
		25	0	22.31	22.33	22.18	1	24
	16QAM	1	0	22.10	22.23	22.21	1	24
		1	12	22.41	22.58	22.43	1	24
		1	24	22.19	22.24	22.08	1	24
		12	0	21.20	21.27	21.27	2	23
		12	6	21.38	21.37	21.26	2	23
		12	13	21.34	21.27	21.18	2	23
		25	0	21.22	21.31	21.24	2	23
	64QAM	1	0	21.07	21.09	21.09	2	23
		1	12	21.13	21.19	21.24	2	23
		1	24	21.07	21.10	21.05	2	23
		12	0	20.22	20.29	20.20	3	22
		12	6	20.24	20.24	20.19	3	22
		12	13	20.16	20.20	20.14	3	22
		25	0	20.31	20.22	20.10	3	22

LTE Band 41 (2496 ~ 2690MHz)

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	23.52	23.36	23.43	23.28	23.20	0	25
		1	50	23.73	23.58	23.70	23.60	23.62	0	25
		1	99	23.26	23.23	23.32	23.31	23.19	0	25
		50	0	22.56	22.52	22.59	22.53	22.39	1	24
		50	25	22.62	22.54	22.61	22.49	22.52	1	24
		50	50	22.61	22.51	22.60	22.47	22.46	1	24
		100	0	22.66	22.56	22.64	22.63	22.57	1	24
	16QAM	1	0	22.60	22.53	22.55	22.48	22.53	1	24
		1	50	22.80	22.68	22.79	22.69	22.89	1	24
		1	99	22.37	22.22	22.35	22.22	22.52	1	24
		50	0	21.59	21.56	21.65	21.61	21.56	2	23
		50	25	21.65	21.62	21.67	21.58	21.49	2	23
		50	50	21.69	21.56	21.62	21.48	21.48	2	23
		100	0	21.70	21.58	21.66	21.58	21.51	2	23
	64QAM	1	0	21.31	21.21	21.21	21.17	21.22	2	23
		1	50	21.44	21.26	21.34	21.22	21.27	2	23
		1	99	21.22	21.20	21.24	21.19	21.19	2	23
		50	0	20.56	20.52	20.61	20.60	20.37	3	22
		50	25	20.64	20.55	20.59	20.45	20.42	3	22
		50	50	20.63	20.45	20.58	20.53	20.43	3	22
		100	0	20.65	20.48	20.63	20.51	20.50	3	22
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	23.46	23.22	23.39	23.22	23.11	0	25
		1	37	23.59	23.57	23.68	23.57	23.51	0	25
		1	74	23.14	23.18	23.27	23.27	23.17	0	25
		36	0	22.44	22.39	22.45	22.44	22.31	1	24
		36	19	22.57	22.43	22.57	22.36	22.40	1	24
		36	39	22.51	22.40	22.55	22.41	22.45	1	24
		75	0	22.52	22.52	22.63	22.55	22.53	1	24
	16QAM	1	0	22.52	22.44	22.54	22.34	22.39	1	24
		1	37	22.70	22.63	22.65	22.66	22.84	1	24
		1	74	22.32	22.14	22.34	22.11	22.38	1	24
		36	0	21.53	21.53	21.51	21.60	21.43	2	23
		36	19	21.64	21.55	21.56	21.52	21.36	2	23
		36	39	21.65	21.44	21.54	21.43	21.35	2	23
		75	0	21.57	21.48	21.54	21.47	21.38	2	23
	64QAM	1	0	21.16	21.13	21.07	21.05	21.08	2	23
		1	37	21.29	21.23	21.27	21.19	21.18	2	23
		1	74	21.07	21.14	21.21	21.13	21.10	2	23
		36	0	20.44	20.45	20.55	20.54	20.34	3	22
		36	19	20.61	20.41	20.48	20.44	20.31	3	22
		36	39	20.50	20.43	20.56	20.43	20.40	3	22
		75	0	20.63	20.40	20.61	20.39	20.35	3	22
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	23.50	23.32	23.33	23.14	23.06	0	25
		1	24	23.64	23.54	23.64	23.50	23.57	0	25
		1	49	23.23	23.15	23.19	23.17	23.05	0	25
		25	0	22.45	22.38	22.49	22.43	22.25	1	24
		25	12	22.51	22.46	22.49	22.35	22.49	1	24
		25	25	22.57	22.38	22.45	22.38	22.44	1	24
		50	0	22.64	22.47	22.61	22.49	22.46	1	24
	16QAM	1	0	22.52	22.48	22.44	22.46	22.38	1	24
		1	24	22.78	22.65	22.64	22.55	22.78	1	24
		1	49	22.35	22.15	22.31	22.11	22.39	1	24
		25	0	21.47	21.53	21.64	21.54	21.44	2	23
		25	12	21.64	21.47	21.59	21.56	21.37	2	23
		25	25	21.61	21.44	21.49	21.41	21.38	2	23
		50	0	21.56	21.56	21.65	21.53	21.44	2	23
	64QAM	1	0	21.27	21.16	21.16	21.06	21.12	2	23
		1	24	21.30	21.12	21.24	21.08	21.21	2	23
		1	49	21.09	21.05	21.12	21.14	21.07	2	23
		25	0	20.48	20.39	20.51	20.57	20.29	3	22
		25	12	20.61	20.51	20.47	20.39	20.39	3	22
		25	25	20.49	20.40	20.56	20.47	20.32	3	22
		50	0	20.58	20.43	20.55	20.42	20.43	3	22
BW	Modulation	Channel		39675	40148	40620	41093	41565	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5		
5M	QPSK	1	0	23.40	23.23	23.35	23.22	23.14	0	25
		1	12	23.69	23.54	23.69	23.49	23.57	0	25
		1	24	23.18	23.20	23.18	23.28	23.04	0	25
		12	0	22.54	22.51	22.50	22.42	22.35	1	24
		12	6	22.61	22.44	22.49	22.46	22.44	1	24
		12	13	22.47	22.38	22.49	22.45	22.41	1	24
		25	0	22.60	22.51	22.56	22.57	22.45	1	24
	16QAM	1	0	22.56	22.42	22.52	22.42	22.44	1	24
		1	12	22.65	22.53	22.75	22.66	22.77	1	24
		1	24	22.24	22.14	22.31	22.09	22.46	1	24
		12	0	21.55	21.47	21.54	21.60	21.51	2	23
		12	6	21.52	21.51	21.56	21.57	21.34	2	23
		12	13	21.62	21.55	21.60	21.44	21.44	2	23
		25	0	21.56	21.57	21.56	21.43	21.43	2	23
	64QAM	1	0	21.20	21.15	21.12	21.11	21.11	2	23
		1	12	21.34	21.21	21.26	21.08	21.17	2	23
		1	24	21.07	21.09	21.22	21.14	21.16	2	23
		12	0	20.53	20.45	20.51	20.46	20.35	3	22
		12	6	20.52	20.43	20.52	20.30	20.36	3	22
		12	13	20.56	20.35	20.56	20.51	20.34	3	22
		25	0	20.62	20.42	20.62	20.45	20.48	3	22

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BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		132072	132322	132572		
		Frequency (MHz)		1720	1745	1770		
20M	QPSK	1	0	23.83	23.82	23.77	0	25.5
		1	50	24.04	24.08	24.01	0	25.5
		1	99	23.78	23.75	23.70	0	25.5
		50	0	23.06	23.09	23.11	1	24.5
		50	25	23.15	23.16	23.12	1	24.5
		50	50	23.14	23.12	22.95	1	24.5
		100	0	23.09	23.10	23.04	1	24.5
	16QAM	1	0	23.04	22.95	22.99	1	24.5
		1	50	23.35	23.36	23.39	1	24.5
		1	99	23.08	23.06	22.97	1	24.5
		50	0	22.02	22.08	22.11	2	23.5
		50	25	22.15	22.14	22.12	2	23.5
		50	50	22.08	22.10	21.97	2	23.5
		100	0	22.07	22.07	21.99	2	23.5
	64QAM	1	0	21.92	21.86	21.86	2	23.5
		1	50	22.22	22.32	22.28	2	23.5
		1	99	22.04	21.98	22.00	2	23.5
		50	0	20.97	21.04	21.05	3	22.5
		50	25	21.07	21.12	21.04	3	22.5
		50	50	21.05	21.06	20.90	3	22.5
		100	0	21.02	21.03	20.99	3	22.5
BW	Modulation	Channel		132047	132322	132597	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1745	1772.5		
15M	QPSK	1	0	23.83	23.87	23.79	0	25.5
		1	37	24.11	24.11	23.82	0	25.5
		1	74	23.83	23.74	23.81	0	25.5
		36	0	22.96	22.98	22.98	1	24.5
		36	19	23.07	22.96	22.88	1	24.5
		36	39	23.08	23.03	22.84	1	24.5
		75	0	22.98	23.05	22.93	1	24.5
	16QAM	1	0	22.69	22.74	22.66	1	24.5
		1	37	22.98	22.91	22.73	1	24.5
		1	74	22.62	22.59	22.56	1	24.5
		36	0	21.96	21.81	21.84	2	23.5
		36	19	21.90	21.89	21.91	2	23.5
		36	39	21.87	22.09	21.88	2	23.5
		75	0	22.06	21.86	22.03	2	23.5
	64QAM	1	0	21.75	21.66	21.65	2	23.5
		1	37	21.99	21.88	22.15	2	23.5
		1	74	21.71	21.65	21.70	2	23.5
		36	0	20.80	20.79	20.72	3	22.5
		36	19	20.92	20.82	20.86	3	22.5
		36	39	21.02	20.88	20.88	3	22.5
		75	0	21.00	20.92	20.84	3	22.5
BW	Modulation	Channel		132022	132322	132622	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1745	1775		
10M	QPSK	1	0	23.85	23.83	23.80	0	25.5
		1	24	24.17	24.03	23.85	0	25.5
		1	49	23.87	23.64	23.75	0	25.5
		25	0	22.99	22.95	23.02	1	24.5
		25	12	23.03	23.01	22.81	1	24.5
		25	25	23.16	22.99	22.85	1	24.5
		50	0	22.92	23.07	22.91	1	24.5
	16QAM	1	0	22.68	22.70	22.60	1	24.5
		1	24	22.97	22.93	22.79	1	24.5
		1	49	22.59	22.54	22.54	1	24.5
		25	0	21.95	21.83	21.81	2	23.5
		25	12	21.94	21.90	21.94	2	23.5
		25	25	21.88	22.01	21.80	2	23.5
		50	0	22.01	21.94	22.01	2	23.5
	64QAM	1	0	21.75	21.74	21.52	2	23.5
		1	24	22.01	21.92	22.07	2	23.5
		1	49	21.63	21.72	21.64	2	23.5
		25	0	20.93	20.87	20.76	3	22.5
		25	12	20.83	20.94	20.94	3	22.5
		25	25	21.08	20.79	20.91	3	22.5
		50	0	20.87	20.95	20.81	3	22.5
BW	Modulation	Channel		131997	132322	132647	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1745	1777.5		
5M	QPSK	1	0	23.80	23.85	23.78	0	25.5
		1	12	24.17	24.14	23.82	0	25.5
		1	24	23.93	23.62	23.77	0	25.5
		12	0	22.97	22.87	22.90	1	24.5
		12	6	22.96	22.97	22.88	1	24.5
		12	13	23.09	23.08	22.91	1	24.5
		25	0	22.91	22.99	22.91	1	24.5
	16QAM	1	0	22.75	22.67	22.66	1	24.5
		1	12	22.93	22.84	22.76	1	24.5
		1	24	22.62	22.61	22.56	1	24.5
		12	0	22.01	21.82	21.83	2	23.5
		12	6	21.85	21.97	22.04	2	23.5
		12	13	22.00	22.12	21.78	2	23.5
		25	0	22.07	21.88	22.02	2	23.5
	64QAM	1	0	21.70	21.65	21.61	2	23.5
		1	12	21.97	22.00	22.05	2	23.5
		1	24	21.64	21.62	21.76	2	23.5
		12	0	20.91	20.87	20.73	3	22.5
		12	6	20.84	20.93	20.91	3	22.5
		12	13	21.09	20.79	20.84	3	22.5
		25	0	20.90	20.86	20.83	3	22.5
BW	Modulation	Channel		131987	132322	132657	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1745	1778.5		
3M	QPSK	1	0	23.86	23.86	23.83	0	25.5
		1	7	24.21	24.15	23.79	0	25.5
		1	14	23.82	23.67	23.76	0	25.5
		8	0	23.06	22.90	22.99	1	24.5
		8	3	23.03	22.97	22.85	1	24.5
		8	7	23.17	22.97	22.87	1	24.5
		15	0	22.96	23.04	22.87	1	24.5
	16QAM	1	0	22.64	22.69	22.68	1	24.5
		1	7	23.03	22.95	22.71	1	24.5
		1	14	22.60	22.58	22.59	1	24.5
		8	0	22.03	21.85	21.89	2	23.5
		8	3	21.90	21.95	21.93	2	23.5
		8	7	21.95	22.10	21.89	2	23.5
		15	0	22.05	21.95	21.99	2	23.5
	64QAM	1	0	21.65	21.78	21.65	2	23.5
		1	7	22.05	22.00	22.06	2	23.5
		1	14	21.59	21.61	21.70	2	23.5
		8	0	20.94	20.86	20.78	3	22.5
		8	3	20.87	20.89	20.92	3	22.5
		8	7	21.05	20.81	20.80	3	22.5
		15	0	20.96	20.90	20.84	3	22.5
BW	Modulation	Channel		131979	132322	132665	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1745	1779.3		
1.4M	QPSK	1	0	23.69	23.71	23.52	0	25.5
		1	2	23.96	24.01	23.93	0	25.5
		1	5	23.63	23.67	23.59	0	25.5
		3	0	23.79	23.84	23.85	0	25.5
		3	1	23.92	23.94	23.87	0	25.5
		3	3	23.89	23.84	23.72	0	25.5
		6	0	23.02	23.03	23.01	1	24.5
	16QAM	1	0	22.92	22.89	22.95	1	24.5
		1	2	23.20	23.23	23.33	1	24.5
		1	5	22.95	22.97	22.95	1	24.5
		3	0	22.68	22.81	22.81	1	24.5
		3	1	22.89	22.92	22.78	1	24.5
		3	3	22.79	22.78	22.64	1	24.5
		6	0	21.92	21.93	21.87	2	23.5
	64QAM	1	0	21.84	21.81	21.78	2	23.5
		1	2	22.08	22.17	22.27	2	23.5
		1	5	21.92	21.94	21.96	2	23.5
		3	0	21.69	21.75	21.74	2	23.5
		3	1	21.83	21.77	21.81	2	23.5
		3	3	21.72	21.74	21.57	2	23.5
		6	0	20.87	21.02	20.87	3	22.5

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Ant4

Band	GSM850				GSM1900			
Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8	
GSM	31.25	31.32	31.42	32.50	23.44	23.58	**23.59**	24.50
GPRS 1Tx Slot	31.22	31.28	**31.45**	32.50	23.45	23.53	23.57	24.50
GPRS 2Tx Slot	27.93	28.00	28.20	29.00	19.26	19.63	20.08	20.50
GPRS 3Tx Slot	26.34	26.42	26.61	27.50	17.60	18.08	18.41	19.00
GPRS 4Tx Slot	25.28	25.39	25.56	26.50	16.51	17.07	17.22	18.00
EDGE 1Tx Slot	27.04	27.02	26.82	28.00	22.18	22.17	22.24	23.00
EDGE 2Tx Slot	23.61	23.77	23.52	25.00	18.88	18.86	18.96	20.00
EDGE 3Tx Slot	21.83	22.02	21.74	23.00	16.93	17.01	17.09	18.00
EDGE 4Tx Slot	21.14	21.17	21.04	22.00	16.00	15.99	15.96	17.00

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)
Channel	128	189	251		512	661	810	
GSM	22.25	22.32	22.42	23.50	14.44	14.58	14.59	15.50
GPRS 1Tx Slot	22.22	22.28	22.45	23.50	14.45	14.53	14.57	15.50
GPRS 2Tx Slot	21.93	22.00	22.20	23.00	13.26	13.63	14.08	14.50
GPRS 3Tx Slot	22.08	22.16	22.35	23.24	13.34	13.82	14.15	14.74
GPRS 4Tx Slot	22.28	22.39	22.56	23.50	13.51	14.07	14.22	15.00
EDGE 1Tx Slot	18.04	18.02	17.82	19.00	13.18	13.17	13.24	14.00
EDGE 2Tx Slot	17.61	17.77	17.52	19.00	12.88	12.86	12.96	14.00
EDGE 3Tx Slot	17.57	17.76	17.48	18.74	12.67	12.75	12.83	13.74
EDGE 4Tx Slot	18.14	18.17	18.04	19.00	13.00	12.99	12.96	14.00

Band	WCDMA II			WCDMA II	WCDMA IV			WCDMA IV	WCDMA V			WCDMA V
TX Channel	9262	9400	9538	Max. Tune-up Power (dBm)	1312	1413	1513	Max. Tune-up Power (dBm)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407.00	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.40	846.6	
RMC 12.2K	14.19	14.24	**14.25**	**15.50**	**14.95**	14.93	14.88	**16.00**	21.63	21.65	**21.68**	**23.00**
HSDPA Subtest-1	13.28	13.36	13.46	14.00	14.06	14.07	14.03	14.50	20.79	20.77	20.86	21.50
HSDPA Subtest-2	13.30	13.32	13.43	14.00	14.02	14.03	13.92	14.50	20.81	20.84	20.85	21.50
HSDPA Subtest-3	12.71	12.77	12.98	14.00	13.58	13.54	13.45	14.50	20.22	20.25	20.31	21.50
HSDPA Subtest-4	12.82	12.99	13.00	14.00	13.61	13.66	13.40	14.50	20.33	20.25	20.24	21.50
DC-HSDPA Subtest-1	13.38	13.34	13.50	14.00	14.04	14.09	14.11	14.50	20.76	20.70	20.78	21.50
DC-HSDPA Subtest-2	13.25	13.44	13.54	14.00	14.04	14.06	14.00	14.50	20.82	20.74	20.88	21.50
DC-HSDPA Subtest-3	12.71	12.90	12.94	14.00	13.59	13.54	13.52	14.50	20.23	20.28	20.50	21.50
DC-HSDPA Subtest-4	12.80	12.81	12.96	14.00	13.48	13.58	13.52	14.50	20.23	20.19	20.38	21.50
HSUPA Subtest-1	11.40	11.49	11.70	13.00	12.24	12.20	12.28	13.50	18.96	19.02	19.11	20.50
HSUPA Subtest-2	11.20	11.33	11.41	13.00	12.02	11.93	11.92	13.50	18.63	18.75	18.67	20.50
HSUPA Subtest-3	12.14	12.21	12.33	13.00	12.85	12.73	12.75	13.50	19.54	19.51	19.66	20.50
HSUPA Subtest-4	11.11	11.23	11.18	13.00	11.66	11.74	11.62	13.50	18.92	18.90	18.92	20.50
HSUPA Subtest-5	12.11	12.26	12.22	13.00	12.94	12.70	12.78	13.50	19.59	19.56	19.65	20.50
HSPA+ Subtest-1	11.37	11.43	11.63	13.00	12.20	12.18	12.06	13.50	18.74	18.73	19.07	20.50

GSM&WCDMA DSI-2

Ant4

Band	GSM850				GSM1900			
Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8	
GSM	32.20	32.37	**32.43**	33.50	29.30	29.41	**29.44**	30.50
GPRS 1Tx Slot	32.19	32.31	32.36	33.50	29.23	29.40	29.41	30.50
GPRS 2Tx Slot	28.81	28.92	29.05	30.00	25.57	25.77	25.99	26.50
GPRS 3Tx Slot	27.32	27.45	27.62	28.50	23.73	23.96	24.26	25.00
GPRS 4Tx Slot	26.27	26.40	26.54	27.50	22.77	23.00	23.33	24.00
EDGE 1Tx Slot	26.88	26.94	26.77	28.00	25.94	26.10	26.05	27.00
EDGE 2Tx Slot	23.63	23.66	23.42	25.00	22.89	23.12	23.04	24.00
EDGE 3Tx Slot	21.86	21.88	21.68	23.00	21.10	21.46	21.32	22.00
EDGE 4Tx Slot	21.03	20.98	21.04	22.00	20.16	20.35	20.28	21.00

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)
Channel	128	189	251		512	661	810	
GSM	23.20	23.37	23.43	24.50	20.30	20.41	20.44	21.50
GPRS 1Tx Slot	23.19	23.31	23.36	24.50	20.23	20.40	20.41	21.50
GPRS 2Tx Slot	22.81	22.92	23.05	24.00	19.57	19.77	19.99	20.50
GPRS 3Tx Slot	23.06	23.19	23.36	24.24	19.47	19.70	20.00	20.74
GPRS 4Tx Slot	23.27	23.40	23.54	24.50	19.77	20.00	20.33	21.00
EDGE 1Tx Slot	17.88	17.94	17.77	19.00	16.94	17.10	17.05	18.00
EDGE 2Tx Slot	17.63	17.66	17.42	19.00	16.89	17.12	17.04	18.00
EDGE 3Tx Slot	17.60	17.62	17.42	18.74	16.84	17.20	17.06	17.74
EDGE 4Tx Slot	18.03	17.98	18.04	19.00	17.16	17.35	17.28	18.00

Band	WCDMA II			WCDMA II	WCDMA IV			WCDMA IV	WCDMA V			WCDMA V
TX Channel	9262	9400	9538	Max. Tune-up Power (dBm)	1312	1413	1513	Max. Tune-up Power (dBm)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	21.03	21.15	**21.29**	**22.50**	**21.40**	21.34	21.24	**22.50**	24.17	24.19	**24.25**	**25.50**
HSDPA Subtest-1	20.15	20.17	20.54	21.00	20.50	20.46	20.41	21.00	23.26	23.35	23.43	24.00
HSDPA Subtest-2	20.24	20.31	20.50	21.00	20.43	20.40	20.44	21.00	23.37	23.36	23.42	24.00
HSDPA Subtest-3	19.78	19.76	19.95	21.00	20.02	20.03	19.87	21.00	22.77	22.80	22.88	24.00
HSDPA Subtest-4	19.75	19.84	19.97	21.00	20.09	19.88	19.96	21.00	22.84	22.78	22.87	24.00
DC-HSDPA Subtest-1	20.36	20.28	20.30	21.00	20.38	20.28	20.46	21.00	23.33	23.35	23.35	24.00
DC-HSDPA Subtest-2	20.21	20.34	20.51	21.00	20.50	20.53	20.38	21.00	23.34	23.32	23.39	24.00
DC-HSDPA Subtest-3	19.74	19.91	20.05	21.00	19.95	20.05	19.90	21.00	22.87	22.89	22.93	24.00
DC-HSDPA Subtest-4	19.75	19.84	19.99	21.00	19.97	20.04	19.97	21.00	22.79	22.81	22.90	24.00
HSUPA Subtest-1	18.47	18.56	18.75	20.00	18.68	18.48	18.55	20.00	21.51	21.55	21.58	23.00
HSUPA Subtest-2	18.11	18.31	18.29	20.00	18.28	18.29	18.15	20.00	21.16	21.29	21.27	23.00
HSUPA Subtest-3	19.04	19.32	19.24	20.00	19.29	19.05	19.20	20.00	22.13	22.10	22.24	23.00
HSUPA Subtest-4	18.12	18.23	18.17	20.00	18.26	18.17	18.19	20.00	21.10	21.16	21.20	23.00
HSUPA Subtest-5	18.99	19.15	19.26	20.00	19.15	19.15	19.23	20.00	22.13	22.08	22.15	23.00
HSPA+ Subtest-1	18.39	18.54	18.54	20.00	18.42	18.51	18.51	20.00	21.38	21.41	21.55	23.00

GSM&WCDMA DSI-4

Ant4

Band	GSM850				GSM1900			
Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8	
GSM	32.20	32.37	**32.43**	33.50	25.70	25.95	**26.09**	27.00
GPRS 1Tx Slot	32.19	32.31	32.36	33.50	25.67	25.88	26.05	27.00
GPRS 2Tx Slot	28.81	28.92	29.05	30.00	22.00	22.29	22.61	23.00
GPRS 3Tx Slot	27.32	27.45	27.62	28.50	20.17	20.54	20.95	21.50
GPRS 4Tx Slot	26.27	26.40	26.54	27.50	19.08	19.49	19.95	20.50
EDGE 1Tx Slot	26.88	26.94	26.77	28.00	24.55	24.71	24.58	25.50
EDGE 2Tx Slot	23.63	23.66	23.42	25.00	21.43	21.65	21.49	22.50
EDGE 3Tx Slot	21.86	21.88	21.68	23.00	19.68	19.85	19.66	20.50
EDGE 4Tx Slot	21.03	20.98	21.04	22.00	18.61	18.65	18.54	19.50

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)
Channel	128	189	251		512	661	810	
GSM	23.20	23.37	23.43	24.50	16.70	16.95	17.09	18.00
GPRS 1Tx Slot	23.19	23.31	23.36	24.50	16.67	16.88	17.05	18.00
GPRS 2Tx Slot	22.81	22.92	23.05	24.00	16.00	16.29	16.61	17.00
GPRS 3Tx Slot	23.06	23.19	23.36	24.24	15.91	16.28	16.69	17.24
GPRS 4Tx Slot	23.27	23.40	23.54	24.50	16.08	16.49	16.95	17.50
EDGE 1Tx Slot	17.88	17.94	17.77	19.00	15.55	15.71	15.58	16.50
EDGE 2Tx Slot	17.63	17.66	17.42	19.00	15.43	15.65	15.49	16.50
EDGE 3Tx Slot	17.60	17.62	17.42	18.74	15.42	15.59	15.40	16.24
EDGE 4Tx Slot	18.03	17.98	18.04	19.00	15.61	15.65	15.54	16.50

Band	WCDMA II			WCDMA II	WCDMA IV			WCDMA IV	WCDMA V			WCDMA V
TX Channel	9262	9400	9538	Max. Tune-up Power (dBm)	1312	1413	1513	Max. Tune-up Power (dBm)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	17.41	17.45	**17.51**	**18.50**	**17.92**	17.87	17.83	**19.00**	24.17	24.19	**24.25**	**25.50**
HSDPA Subtest-1	16.55	16.50	16.36	17.00	17.11	17.09	17.03	17.50	23.26	23.35	23.43	24.00
HSDPA Subtest-2	16.45	16.63	16.53	17.00	16.98	17.04	17.10	17.50	23.37	23.36	23.42	24.00
HSDPA Subtest-3	16.05	16.09	16.24	17.00	16.62	16.56	16.51	17.50	22.77	22.80	22.88	24.00
HSDPA Subtest-4	16.05	16.20	16.17	17.00	16.63	16.60	16.49	17.50	22.84	22.78	22.87	24.00
DC-HSDPA Subtest-1	16.57	16.48	16.69	17.00	17.09	17.09	17.08	17.50	23.33	23.35	23.35	24.00
DC-HSDPA Subtest-2	16.52	16.60	16.75	17.00	17.07	17.10	17.04	17.50	23.34	23.32	23.39	24.00
DC-HSDPA Subtest-3	15.95	16.17	16.26	17.00	16.61	16.66	16.54	17.50	22.87	22.89	22.93	24.00
DC-HSDPA Subtest-4	16.09	16.08	16.09	17.00	16.58	16.51	16.54	17.50	22.79	22.81	22.90	24.00
HSUPA Subtest-1	14.73	14.82	14.94	16.00	15.31	15.17	15.14	16.50	21.51	21.55	21.58	23.00
HSUPA Subtest-2	14.36	14.56	14.50	16.00	15.02	14.84	14.81	16.50	21.16	21.29	21.27	23.00
HSUPA Subtest-3	15.24	15.43	15.55	16.00	15.90	15.87	15.90	16.50	22.13	22.10	22.24	23.00
HSUPA Subtest-4	14.19	14.11	14.31	16.00	14.74	14.65	14.65	16.50	21.10	21.16	21.20	23.00
HSUPA Subtest-5	15.24	15.49	15.43	16.00	15.78	15.85	15.75	16.50	22.13	22.08	22.15	23.00
HSPA+ Subtest-1	14.58	14.64	14.82	16.00	15.11	15.15	15.16	16.50	21.38	21.41	21.55	23.00

LTE DSI-1
Ant4

LTE Band 2

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		18700	18900	19100	
		Frequency (MHz)		1860	1880	1900	
20M	QPSK	1	0	13.83	13.90	13.89	15.5
		1	50	**14.30**	14.20	14.24	15.5
		1	99	13.87	13.82	13.92	15.5
		50	0	13.66	13.85	13.72	15.5
		50	25	13.93	13.89	13.82	15.5
		50	50	13.83	13.83	13.79	15.5
		100	0	13.90	13.89	13.73	15.5
	16QAM	1	0	13.62	13.70	13.86	15.5
		1	50	14.03	14.08	14.07	15.5
		1	99	13.78	13.70	13.82	15.5
		50	0	13.81	13.96	13.76	15.5
		50	25	13.88	13.95	13.91	15.5
		50	50	13.96	13.96	13.68	15.5
		100	0	13.90	13.99	13.71	15.5
	64QAM	1	0	13.97	13.76	13.70	15.5
		1	50	14.02	14.10	14.19	15.5
		1	99	13.75	13.69	13.81	15.5
		50	0	13.69	13.90	13.77	15.5
		50	25	13.89	13.97	13.97	15.5
		50	50	13.86	13.90	13.68	15.5
		100	0	13.79	14.05	13.80	15.5
BW	Modulation	Channel		18675	18900	19125	Max. Tune-up (dBm)
		Frequency (MHz)		1857.5	1880	1902.5	
15M	QPSK	1	0	13.73	13.89	13.79	15.5
		1	37	14.19	14.06	14.16	15.5
		1	74	13.73	13.81	13.89	15.5
		36	0	13.63	13.79	13.63	15.5
		36	19	13.83	13.81	13.65	15.5
		36	39	13.76	13.70	13.72	15.5
		75	0	13.88	13.84	13.66	15.5
	16QAM	1	0	13.51	13.60	13.77	15.5
		1	37	13.97	14.07	13.98	15.5
		1	74	13.75	13.58	13.76	15.5
		36	0	13.74	13.90	13.62	15.5
		36	19	13.75	13.83	13.87	15.5
		36	39	13.85	13.91	13.67	15.5
		75	0	13.75	13.97	13.61	15.5
	64QAM	1	0	13.90	13.62	13.60	15.5
		1	37	13.88	13.96	14.06	15.5
		1	74	13.73	13.67	13.74	15.5
		36	0	13.59	13.85	13.66	15.5
		36	19	13.88	13.85	13.87	15.5
		36	39	13.80	13.80	13.66	15.5
		75	0	13.67	13.95	13.66	15.5
BW	Modulation	Channel		18650	18900	19150	Max. Tune-up (dBm)
		Frequency (MHz)		1855	1880	1905	
10M	QPSK	1	0	13.79	13.77	13.82	15.5
		1	24	14.27	14.19	14.10	15.5
		1	49	13.85	13.67	13.85	15.5
		25	0	13.62	13.74	13.71	15.5
		25	12	13.88	13.87	13.72	15.5
		25	25	13.78	13.78	13.80	15.5
		50	0	13.79	13.83	13.61	15.5
	16QAM	1	0	13.60	13.60	13.74	15.5
		1	24	13.98	13.98	14.06	15.5
		1	49	13.72	13.67	13.76	15.5
		25	0	13.67	13.81	13.64	15.5
		25	12	13.78	13.94	13.88	15.5
		25	25	13.82	13.93	13.54	15.5
		50	0	13.89	13.91	13.62	15.5
	64QAM	1	0	13.83	13.68	13.58	15.5
		1	24	13.90	13.95	14.04	15.5
		1	49	13.60	13.64	13.70	15.5
		25	0	13.57	13.80	13.69	15.5
		25	12	13.75	13.96	13.82	15.5
		25	25	13.75	13.88	13.67	15.5
		50	0	13.67	13.99	13.72	15.5
BW	Modulation	Channel		18625	18900	19175	Max. Tune-up (dBm)
		Frequency (MHz)		1852.5	1880	1907.5	
5M	QPSK	1	0	13.74	13.88	13.75	15.5
		1	12	14.17	14.14	14.17	15.5
		1	24	13.75	13.67	13.89	15.5
		12	0	13.65	13.73	13.60	15.5
		12	6	13.87	13.79	13.74	15.5
		12	13	13.81	13.82	13.78	15.5
		25	0	13.77	13.84	13.59	15.5
	16QAM	1	0	13.54	13.55	13.78	15.5
		1	12	13.95	14.05	13.98	15.5
		1	24	13.76	13.58	13.78	15.5
		12	0	13.72	13.84	13.68	15.5
		12	6	13.81	13.91	13.86	15.5
		12	13	13.82	13.94	13.82	15.5
		25	0	13.77	13.86	13.70	15.5
	64QAM	1	0	13.83	13.72	13.55	15.5
		1	12	13.91	14.01	14.07	15.5
		1	24	13.61	13.68	13.76	15.5
		12	0	13.66	13.79	13.76	15.5
		12	6	13.88	13.95	13.96	15.5
		12	13	13.82	13.86	13.60	15.5
		25	0	13.64	13.97	13.74	15.5
BW	Modulation	Channel		18615	18900	19185	Max. Tune-up (dBm)
		Frequency (MHz)		1851.5	1880	1908.5	
3M	QPSK	1	0	13.82	13.89	13.83	15.5
		1	7	14.16	14.10	14.15	15.5
		1	14	13.81	13.74	13.80	15.5
		8	0	13.52	13.78	13.58	15.5
		8	3	13.87	13.85	13.65	15.5
		8	7	13.72	13.78	13.76	15.5
		15	0	13.89	13.76	13.65	15.5
	16QAM	1	0	13.57	13.60	13.81	15.5
		1	7	13.91	14.06	13.93	15.5
		1	14	13.77	13.63	13.67	15.5
		8	0	13.77	13.90	13.68	15.5
		8	3	13.79	13.80	13.84	15.5
		8	7	13.94	13.89	13.64	15.5
		15	0	13.88	13.88	13.68	15.5
	64QAM	1	0	13.85	13.68	13.62	15.5
		1	7	13.89	14.07	14.16	15.5
		1	14	13.68	13.59	13.72	15.5
		8	0	13.61	13.77	13.72	15.5
		8	3	13.81	13.93	13.86	15.5
		8	7	13.83	13.79	13.54	15.5
		15	0	13.76	13.93	13.74	15.5
BW	Modulation	Channel		18607	18900	19193	Max. Tune-up (dBm)
		Frequency (MHz)		1850.7	1880	1909.3	
1.4M	QPSK	1	0	13.76	13.81	13.80	15.5
		1	2	14.20	14.13	14.23	15.5
		1	5	13.84	13.69	13.81	15.5
		3	0	13.62	13.79	13.62	15.5
		3	1	13.88	13.82	13.77	15.5
		3	3	13.72	13.71	13.78	15.5
		6	0	13.76	13.80	13.63	15.5
	16QAM	1	0	13.54	13.60	13.83	15.5
		1	2	13.92	14.00	13.99	15.5
		1	5	13.64	13.58	13.72	15.5
		3	0	13.72	13.92	13.67	15.5
		3	1	13.87	13.89	13.84	15.5
		3	3	13.93	13.85	13.63	15.5
		6	0	13.83	13.86	13.67	15.5
	64QAM	1	0	13.91	13.62	13.63	15.5
		1	2	13.95	14.04	14.16	15.5
		1	5	13.71	13.60	13.71	15.5
		3	0	13.57	13.77	13.66	15.5
		3	1	13.80	13.90	13.91	15.5
		3	3	13.75	13.80	13.55	15.5
		6	0	13.72	13.99	13.68	15.5

LTE Band 4

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20050	20175	20300	
		Frequency (MHz)		1720	1732.5	1745	
20M	QPSK	1	0	13.70	13.92	13.87	15.5
		1	50	14.07	14.11	**14.12**	15.5
		1	99	13.93	13.72	13.84	15.5
		50	0	13.71	13.67	13.66	15.5
		50	25	13.84	13.86	13.83	15.5
		50	50	13.71	13.69	13.76	15.5
		100	0	13.82	13.74	13.79	15.5
	16QAM	1	0	13.86	13.75	13.77	15.5
		1	50	13.82	13.94	13.86	15.5
		1	99	13.94	13.71	13.59	15.5
		50	0	13.70	13.69	13.71	15.5
		50	25	13.73	13.80	13.89	15.5
		50	50	13.69	13.84	13.69	15.5
		100	0	13.75	13.75	13.69	15.5
	64QAM	1	0	13.70	13.74	13.85	15.5
		1	50	13.85	13.76	13.67	15.5
		1	99	13.79	13.83	13.84	15.5
		50	0	13.88	13.93	13.87	15.5
		50	25	13.89	14.05	13.88	15.5
		50	50	13.92	13.96	13.78	15.5
		100	0	13.81	13.76	13.86	15.5
BW	Modulation	Channel		20025	20175	20325	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1732.5	1747.5	
15M	QPSK	1	0	13.69	13.79	13.74	15.5
		1	37	14.06	13.99	14.06	15.5
		1	74	13.88	13.59	13.79	15.5
		36	0	13.65	13.61	13.63	15.5
		36	19	13.73	13.76	13.73	15.5
		36	39	13.69	13.60	13.66	15.5
		75	0	13.75	13.72	13.75	15.5
	16QAM	1	0	13.81	13.70	13.72	15.5
		1	37	13.80	13.84	13.73	15.5
		1	74	13.91	13.56	13.54	15.5
		36	0	13.62	13.66	13.60	15.5
		36	19	13.60	13.75	13.80	15.5
		36	39	13.54	13.69	13.63	15.5
		75	0	13.74	13.73	13.59	15.5
	64QAM	1	0	13.60	13.64	13.79	15.5
		1	37	13.75	13.71	13.53	15.5
		1	74	13.69	13.71	13.75	15.5
		36	0	13.80	13.87	13.76	15.5
		36	19	13.86	13.94	13.83	15.5
		36	39	13.77	13.89	13.69	15.5
		75	0	13.74	13.69	13.84	15.5
BW	Modulation	Channel		20000	20175	20350	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1732.5	1750	
10M	QPSK	1	0	13.55	13.80	13.77	15.5
		1	24	14.01	14.03	14.05	15.5
		1	49	13.88	13.58	13.74	15.5
		25	0	13.69	13.58	13.53	15.5
		25	12	13.82	13.82	13.76	15.5
		25	25	13.58	13.56	13.75	15.5
		50	0	13.67	13.60	13.70	15.5
	16QAM	1	0	13.71	13.67	13.70	15.5
		1	24	13.74	13.83	13.79	15.5
		1	49	13.83	13.64	13.54	15.5
		25	0	13.60	13.68	13.63	15.5
		25	12	13.61	13.66	13.86	15.5
		25	25	13.67	13.81	13.65	15.5
		50	0	13.74	13.63	13.57	15.5
	64QAM	1	0	13.61	13.62	13.76	15.5
		1	24	13.71	13.69	13.61	15.5
		1	49	13.65	13.74	13.76	15.5
		25	0	13.76	13.78	13.86	15.5
		25	12	13.84	13.99	13.82	15.5
		25	25	13.80	13.90	13.67	15.5
		50	0	13.69	13.61	13.77	15.5
BW	Modulation	Channel		19975	20175	20375	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1732.5	1752.5	
5M	QPSK	1	0	13.65	13.91	13.77	15.5
		1	12	13.96	14.03	14.03	15.5
		1	24	13.83	13.67	13.83	15.5
		12	0	13.64	13.59	13.52	15.5
		12	6	13.73	13.83	13.78	15.5
		12	13	13.59	13.55	13.67	15.5
		25	0	13.67	13.68	13.74	15.5
	16QAM	1	0	13.74	13.63	13.76	15.5
		1	12	13.73	13.88	13.71	15.5
		1	24	13.79	13.61	13.53	15.5
		12	0	13.60	13.62	13.65	15.5
		12	6	13.72	13.75	13.83	15.5
		12	13	13.65	13.80	13.62	15.5
		25	0	13.65	13.65	13.59	15.5
	64QAM	1	0	13.56	13.73	13.77	15.5
		1	12	13.79	13.69	13.65	15.5
		1	24	13.75	13.71	13.77	15.5
		12	0	13.81	13.81	13.81	15.5
		12	6	13.83	13.97	13.84	15.5
		12	13	13.89	13.82	13.76	15.5
		25	0	13.69	13.62	13.85	15.5
BW	Modulation	Channel		19965	20175	20385	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1732.5	1753.5	
3M	QPSK	1	0	13.59	13.77	13.82	15.5
		1	7	14.00	14.02	14.05	15.5
		1	14	13.80	13.64	13.80	15.5
		8	0	13.61	13.55	13.56	15.5
		8	3	13.83	13.78	13.72	15.5
		8	7	13.69	13.54	13.74	15.5
		15	0	13.72	13.70	13.65	15.5
	16QAM	1	0	13.73	13.70	13.64	15.5
		1	7	13.76	13.93	13.82	15.5
		1	14	13.80	13.59	13.56	15.5
		8	0	13.57	13.55	13.66	15.5
		8	3	13.69	13.68	13.76	15.5
		8	7	13.64	13.80	13.64	15.5
		15	0	13.67	13.65	13.67	15.5
	64QAM	1	0	13.61	13.64	13.79	15.5
		1	7	13.78	13.68	13.62	15.5
		1	14	13.74	13.72	13.69	15.5
		8	0	13.79	13.82	13.74	15.5
		8	3	13.83	14.03	13.81	15.5
		8	7	13.85	13.81	13.67	15.5
		15	0	13.72	13.68	13.75	15.5
BW	Modulation	Channel		19957	20175	20393	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1732.5	1754.3	
1.4M	QPSK	1	0	13.62	13.82	13.78	15.5
		1	2	14.05	14.09	14.04	15.5
		1	5	13.87	13.67	13.83	15.5
		3	0	13.60	13.62	13.62	15.5
		3	1	13.83	13.78	13.69	15.5
		3	3	13.64	13.63	13.66	15.5
		6	0	13.76	13.66	13.65	15.5
	16QAM	1	0	13.72	13.70	13.66	15.5
		1	2	13.76	13.87	13.74	15.5
		1	5	13.84	13.56	13.53	15.5
		3	0	13.68	13.63	13.67	15.5
		3	1	13.70	13.65	13.81	15.5
		3	3	13.56	13.82	13.62	15.5
		6	0	13.73	13.71	13.54	15.5
	64QAM	1	0	13.68	13.72	13.76	15.5
		1	2	13.74	13.62	13.58	15.5
		1	5	13.76	13.82	13.71	15.5
		3	0	13.78	13.86	13.84	15.5
		3	1	13.74	14.02	13.85	15.5
		3	3	13.80	13.85	13.71	15.5
		6	0	13.73	13.70	13.76	15.5

LTE Band 5

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20450	20525	20600	
		Frequency (MHz)		829	836.5	844	
10M	QPSK	1	0	21.32	21.33	21.33	23
		1	24	21.49	21.56	**21.57**	23
		1	49	21.40	21.43	21.55	23
		25	0	21.23	21.33	21.21	23
		25	12	21.37	21.38	21.41	23
		25	25	21.32	21.18	21.26	23
		50	0	21.27	21.22	21.28	23
	16QAM	1	0	21.49	21.50	21.36	23
		1	24	21.47	21.48	21.16	23
		1	49	21.47	21.44	21.56	23
		25	0	21.24	21.33	21.17	23
		25	12	21.12	21.24	21.37	23
		25	25	21.16	21.15	21.27	23
		50	0	21.22	21.15	21.17	23
	64QAM	1	0	21.37	21.23	21.35	23
		1	24	21.48	21.46	21.15	23
		1	49	21.30	21.27	21.42	23
		25	0	21.00	20.98	21.07	22.5
		25	12	21.06	20.98	21.12	22.5
		25	25	20.97	21.04	21.06	22.5
		50	0	21.03	21.03	20.98	22.5
BW	Modulation	Channel		20425	20525	20625	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5	
5M	QPSK	1	0	21.27	21.30	21.21	23
		1	12	21.45	21.48	21.54	23
		1	24	21.36	21.30	21.50	23
		12	0	21.14	21.28	21.13	23
		12	6	21.16	21.10	21.28	23
		12	13	21.22	21.17	21.21	23
		25	0	21.17	21.18	21.25	23
	16QAM	1	0	21.45	21.44	21.32	23
		1	12	21.37	21.39	21.10	23
		1	24	21.32	21.41	21.42	23
		12	0	21.12	21.24	21.02	23
		12	6	21.24	21.21	21.25	23
		12	13	21.27	21.13	21.24	23
		25	0	21.14	21.14	21.15	23
	64QAM	1	0	21.22	21.19	21.30	23
		1	12	21.43	21.36	21.10	23
		1	24	21.24	21.18	21.34	23
		12	0	20.95	20.91	20.97	22.5
		12	6	20.94	20.96	21.02	22.5
		12	13	20.82	20.92	20.92	22.5
		25	0	21.01	20.96	20.85	22.5
BW	Modulation	Channel		20415	20525	20635	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5	
3M	QPSK	1	0	21.31	21.20	21.30	23
		1	7	21.48	21.53	21.50	23
		1	14	21.25	21.34	21.51	23
		8	0	21.19	21.35	21.10	23
		8	3	21.13	21.14	21.37	23
		8	7	21.23	21.09	21.15	23
		15	0	21.20	21.17	21.15	23
	16QAM	1	0	21.44	21.39	21.24	23
		1	7	21.42	21.37	21.06	23
		1	14	21.32	21.33	21.48	23
		8	0	21.11	21.22	21.10	23
		8	3	21.03	21.18	21.30	23
		8	7	21.13	21.03	21.18	23
		15	0	21.15	21.05	21.10	23
	64QAM	1	0	21.27	21.15	21.33	23
		1	7	21.46	21.42	21.12	23
		1	14	21.21	21.20	21.36	23
		8	0	20.89	20.83	21.02	22.5
		8	3	21.01	20.93	21.03	22.5
		8	7	20.95	20.95	20.99	22.5
		15	0	21.02	20.88	20.86	22.5
BW	Modulation	Channel		20407	20525	20643	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3	
1.4M	QPSK	1	0	21.28	21.28	21.25	23
		1	2	21.37	21.46	21.55	23
		1	5	21.34	21.34	21.50	23
		3	0	21.22	21.23	21.09	23
		3	1	21.14	21.17	21.33	23
		3	3	21.25	21.16	21.21	23
		6	0	21.18	21.19	21.18	23
	16QAM	1	0	21.43	21.44	21.33	23
		1	2	21.44	21.42	21.11	23
		1	5	21.45	21.30	21.54	23
		3	0	21.14	21.32	21.12	23
		3	1	21.03	21.10	21.22	23
		3	3	21.12	21.10	21.15	23
		6	0	21.10	21.08	21.05	23
	64QAM	1	0	21.22	21.15	21.30	23
		1	2	21.34	21.43	21.06	23
		1	5	21.28	21.22	21.28	23
		3	0	21.31	21.32	21.33	23
		3	1	21.34	21.24	21.45	23
		3	3	21.30	21.34	21.27	23
		6	0	21.00	21.01	20.91	22.5

LTE Band 7

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20850	21100	21350	
		Frequency (MHz)		2510	2535	2560	
20M	QPSK	1	0	14.34	14.30	14.30	16
		1	50	**14.45**	14.38	14.42	16
		1	99	14.41	14.38	14.34	16
		50	0	14.39	14.32	14.35	16
		50	25	14.30	14.25	14.19	16
		50	50	14.42	14.34	14.41	16
		100	0	14.37	14.16	14.25	16
	16QAM	1	0	14.34	14.19	14.17	16
		1	50	14.28	14.31	14.21	16
		1	99	14.23	14.38	14.36	16
		50	0	14.26	14.15	14.25	16
		50	25	14.22	14.21	14.33	16
		50	50	14.30	14.23	14.31	16
		100	0	14.30	14.23	14.22	16
	64QAM	1	0	14.33	14.25	14.38	16
		1	50	14.38	14.18	14.15	16
		1	99	14.19	14.21	14.24	16
		50	0	14.26	14.17	14.20	16
		50	25	14.24	14.27	14.28	16
		50	50	14.38	14.19	14.26	16
		100	0	14.27	14.24	14.16	16
BW	Modulation	Channel		20825	21100	21375	Max. Tune-up (dBm)
		Frequency (MHz)		2507.5	2535	2562.5	
15M	QPSK	1	0	14.33	14.26	14.18	16
		1	37	14.33	14.35	14.37	16
		1	74	14.37	14.25	14.31	16
		36	0	14.30	14.33	14.27	16
		36	19	14.27	14.14	14.08	16
		36	39	14.28	14.20	14.38	16
		75	0	14.32	14.12	14.11	16
	16QAM	1	0	14.22	14.04	14.08	16
		1	37	14.19	14.22	14.12	16
		1	74	14.10	14.37	14.24	16
		36	0	14.19	14.11	14.18	16
		36	19	14.15	14.16	14.27	16
		36	39	14.29	14.14	14.20	16
		75	0	14.27	14.22	14.15	16
	64QAM	1	0	14.20	14.20	14.36	16
		1	37	14.25	14.10	14.12	16
		1	74	14.05	14.08	14.14	16
		36	0	14.21	14.12	14.12	16
		36	19	14.13	14.18	14.26	16
		36	39	14.24	14.05	14.13	16
		75	0	14.21	14.17	14.04	16
BW	Modulation	Channel		20800	21100	21400	Max. Tune-up (dBm)
		Frequency (MHz)		2505	2535	2565	
10M	QPSK	1	0	14.22	14.20	14.27	16
		1	24	14.42	14.28	14.35	16
		1	49	14.31	14.24	14.28	16
		25	0	14.24	14.27	14.20	16
		25	12	14.27	14.19	14.13	16
		25	25	14.35	14.15	14.29	16
		50	0	14.33	14.13	14.19	16
	16QAM	1	0	14.28	14.15	14.06	16
		1	24	14.23	14.28	14.10	16
		1	49	14.18	14.32	14.27	16
		25	0	14.18	14.08	14.22	16
		25	12	14.11	14.07	14.31	16
		25	25	14.24	14.18	14.19	16
		50	0	14.16	14.17	14.19	16
	64QAM	1	0	14.28	14.18	14.34	16
		1	24	14.25	14.09	14.03	16
		1	49	14.13	14.08	14.15	16
		25	0	14.16	14.02	14.06	16
		25	12	14.12	14.16	14.20	16
		25	25	14.33	14.11	14.22	16
		50	0	14.21	14.15	14.07	16
BW	Modulation	Channel		20775	21100	21425	Max. Tune-up (dBm)
		Frequency (MHz)		2502.5	2535	2567.5	
5M	QPSK	1	0	14.24	14.23	14.28	16
		1	12	14.37	14.30	14.38	16
		1	24	14.31	14.28	14.30	16
		12	0	14.27	14.31	14.20	16
		12	6	14.26	14.19	14.13	16
		12	13	14.32	14.27	14.32	16
		25	0	14.35	14.13	14.21	16
	16QAM	1	0	14.20	14.05	14.15	16
		1	12	14.21	14.28	14.12	16
		1	24	14.17	14.36	14.27	16
		12	0	14.11	14.07	14.20	16
		12	6	14.15	14.14	14.21	16
		12	13	14.24	14.11	14.18	16
		25	0	14.19	14.15	14.08	16
	64QAM	1	0	14.21	14.21	14.33	16
		1	12	14.29	14.08	14.03	16
		1	24	14.05	14.15	14.16	16
		12	0	14.13	14.06	14.08	16
		12	6	14.21	14.22	14.13	16
		12	13	14.28	14.10	14.16	16
		25	0	14.24	14.09	14.12	16

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BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		37850	38000	38150	
		Frequency (MHz)		2580	2595	2610	
20M	QPSK	1	0	16.86	16.88	16.90	18.5
		1	50	17.15	**17.16**	17.15	18.5
		1	99	16.95	16.91	16.86	18.5
		50	0	16.77	16.92	16.78	18.5
		50	25	17.01	17.08	16.95	18.5
		50	50	16.89	16.83	16.71	18.5
		100	0	16.85	16.95	16.82	18.5
	16QAM	1	0	16.76	16.78	16.84	18.5
		1	50	16.92	17.02	16.71	18.5
		1	99	16.76	16.97	16.77	18.5
		50	0	16.87	16.89	16.92	18.5
		50	25	16.96	16.81	16.92	18.5
		50	50	16.92	17.01	16.77	18.5
		100	0	16.89	16.95	16.80	18.5
	64QAM	1	0	16.83	16.67	16.77	18.5
		1	50	16.77	16.82	16.90	18.5
		1	99	16.68	16.71	16.77	18.5
		50	0	16.89	16.95	16.96	18.5
		50	25	16.95	16.91	16.73	18.5
		50	50	16.86	16.87	16.66	18.5
		100	0	16.85	16.87	16.85	18.5
BW	Modulation	Channel		37825	38000	38175	Max. Tune-up (dBm)
		Frequency (MHz)		2577.5	2595	2612.5	
15M	QPSK	1	0	16.83	16.84	16.76	18.5
		1	37	17.14	17.01	17.01	18.5
		1	74	16.80	16.88	16.83	18.5
		36	0	16.73	16.90	16.77	18.5
		36	19	16.89	17.07	16.81	18.5
		36	39	16.86	16.82	16.61	18.5
		75	0	16.83	16.87	16.81	18.5
	16QAM	1	0	16.61	16.68	16.82	18.5
		1	37	16.83	16.94	16.60	18.5
		1	74	16.64	16.93	16.62	18.5
		36	0	16.79	16.76	16.88	18.5
		36	19	16.88	16.71	16.83	18.5
		36	39	16.82	17.00	16.75	18.5
		75	0	16.77	16.80	16.76	18.5
	64QAM	1	0	16.72	16.59	16.74	18.5
		1	37	16.64	16.81	16.77	18.5
		1	74	16.64	16.68	16.67	18.5
		36	0	16.77	16.87	16.92	18.5
		36	19	16.93	16.78	16.62	18.5
		36	39	16.83	16.83	16.57	18.5
		75	0	16.72	16.74	16.82	18.5
BW	Modulation	Channel		37800	38000	38200	Max. Tune-up (dBm)
		Frequency (MHz)		2575	2595	2615	
10M	QPSK	1	0	16.79	16.80	16.89	18.5
		1	24	17.07	17.12	17.00	18.5
		1	49	16.94	16.86	16.75	18.5
		25	0	16.72	16.86	16.67	18.5
		25	12	16.91	16.96	16.86	18.5
		25	25	16.77	16.69	16.64	18.5
		50	0	16.70	16.88	16.68	18.5
	16QAM	1	0	16.70	16.65	16.77	18.5
		1	24	16.84	17.00	16.65	18.5
		1	49	16.65	16.91	16.62	18.5
		25	0	16.78	16.75	16.87	18.5
		25	12	16.86	16.76	16.77	18.5
		25	25	16.78	16.86	16.62	18.5
		50	0	16.80	16.89	16.77	18.5
	64QAM	1	0	16.77	16.53	16.69	18.5
		1	24	16.63	16.72	16.85	18.5
		1	49	16.53	16.66	16.66	18.5
		25	0	16.74	16.94	16.85	18.5
		25	12	16.93	16.87	16.64	18.5
		25	25	16.80	16.84	16.60	18.5
		50	0	16.81	16.79	16.80	18.5
BW	Modulation	Channel		37775	38000	38225	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5	
5M	QPSK	1	0	16.84	16.87	16.88	18.5
		1	12	17.09	17.14	17.00	18.5
		1	24	16.82	16.87	16.79	18.5
		12	0	16.73	16.81	16.69	18.5
		12	6	16.91	17.02	16.93	18.5
		12	13	16.86	16.80	16.69	18.5
		25	0	16.75	16.86	16.69	18.5
	16QAM	1	0	16.69	16.64	16.74	18.5
		1	12	16.81	16.95	16.58	18.5
		1	24	16.69	16.94	16.64	18.5
		12	0	16.72	16.81	16.79	18.5
		12	6	16.90	16.75	16.91	18.5
		12	13	16.82	16.98	16.75	18.5
		25	0	16.84	16.90	16.76	18.5
	64QAM	1	0	16.69	16.57	16.71	18.5
		1	12	16.62	16.67	16.86	18.5
		1	24	16.54	16.58	16.67	18.5
		12	0	16.79	16.89	16.90	18.5
		12	6	16.94	16.83	16.67	18.5
		12	13	16.84	16.84	16.65	18.5
		25	0	16.74	16.80	16.84	18.5

LTE Band 41 (2496 ~ 2690MHz)

BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	Max. Tune-up (dBm)
		Channel		39750	40185	40620	41055	41490	
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680	
20M	QPSK	1	0	16.99	16.90	16.97	16.78	16.69	18.5
		1	50	**17.21**	17.17	17.19	17.08	17.06	18.5
		1	99	16.82	16.76	16.81	16.81	16.70	18.5
		50	0	16.74	16.74	16.91	16.74	16.85	18.5
		50	25	16.95	16.83	16.94	16.82	16.88	18.5
		50	50	16.92	16.71	16.77	16.70	16.74	18.5
		100	0	17.05	16.86	16.82	16.95	16.82	18.5
	16QAM	1	0	16.93	16.83	16.91	16.68	16.77	18.5
		1	50	17.04	17.05	17.04	17.06	17.20	18.5
		1	99	16.94	16.74	17.00	16.77	17.03	18.5
		50	0	16.85	16.80	16.95	16.88	16.83	18.5
		50	25	16.86	16.90	16.83	16.81	16.77	18.5
		50	50	16.93	16.72	16.95	16.68	16.68	18.5
		100	0	16.94	16.83	16.85	16.79	16.76	18.5
	64QAM	1	0	16.89	16.86	16.68	16.92	16.79	18.5
		1	50	16.89	16.72	16.89	16.80	16.75	18.5
		1	99	16.62	16.69	16.88	16.65	16.78	18.5
		50	0	16.83	16.77	16.81	16.84	16.80	18.5
		50	25	16.94	16.74	16.92	16.79	16.95	18.5
		50	50	17.01	16.66	16.82	16.76	16.81	18.5
		100	0	16.93	16.63	16.99	16.81	16.76	18.5
BW	Modulation	Channel		39725	40173	40620	41068	41515	Max. Tune-up (dBm)
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5	
15M	QPSK	1	0	16.96	16.75	16.93	16.67	16.67	18.5
		1	37	17.14	17.12	17.18	16.99	16.92	18.5
		1	74	16.69	16.66	16.67	16.68	16.64	18.5
		36	0	16.59	16.67	16.84	16.68	16.74	18.5
		36	19	16.81	16.81	16.82	16.72	16.51	18.5
		36	39	16.82	16.64	16.75	16.62	16.71	18.5
		75	0	16.91	16.84	16.70	16.86	16.77	18.5
	16QAM	1	0	16.82	16.80	16.88	16.53	16.75	18.5
		1	37	16.98	16.96	16.97	16.96	17.19	18.5
		1	74	16.85	16.68	16.89	16.63	16.91	18.5
		36	0	16.79	16.66	16.80	16.85	16.72	18.5
		36	19	16.75	16.78	16.70	16.69	16.62	18.5
		36	39	16.91	16.60	16.86	16.55	16.59	18.5
		75	0	16.81	16.76	16.75	16.67	16.70	18.5
	64QAM	1	0	16.78	16.83	16.57	16.84	16.75	18.5
		1	37	16.84	16.71	16.84	16.79	16.65	18.5
		1	74	16.57	16.64	16.75	16.50	16.69	18.5
		36	0	16.81	16.62	16.70	16.70	16.77	18.5
		36	19	16.86	16.60	16.80	16.78	16.81	18.5
		36	39	16.90	16.63	16.70	16.64	16.70	18.5
		75	0	16.80	16.52	16.95	16.69	16.62	18.5
BW	Modulation	Channel		39700	40160	40620	41080	41540	Max. Tune-up (dBm)
		Frequency (MHz)		2501	2547	2593	2639	2685	
10M	QPSK	1	0	16.90	16.87	16.93	16.67	16.64	18.5
		1	24	17.08	17.05	17.15	17.05	16.97	18.5
		1	49	16.75	16.73	16.69	16.80	16.61	18.5
		25	0	16.63	16.62	16.84	16.72	16.82	18.5
		25	12	16.77	16.72	16.75	16.72	16.53	18.5
		25	25	16.79	16.64	16.65	16.55	16.63	18.5
		50	0	16.86	16.75	16.80	16.81	16.81	18.5
	16QAM	1	0	16.92	16.72	16.87	16.54	16.69	18.5
		1	24	17.00	17.04	16.99	16.95	17.12	18.5
		1	49	16.92	16.68	16.90	16.64	16.89	18.5
		25	0	16.74	16.70	16.81	16.83	16.77	18.5
		25	12	16.74	16.78	16.80	16.75	16.75	18.5
		25	25	16.88	16.68	16.87	16.66	16.67	18.5
		50	0	16.84	16.74	16.70	16.74	16.72	18.5
	64QAM	1	0	16.74	16.83	16.59	16.91	16.78	18.5
		1	24	16.79	16.57	16.81	16.65	16.63	18.5
		1	49	16.57	16.65	16.77	16.52	16.69	18.5
		25	0	16.77	16.66	16.66	16.78	16.75	18.5
		25	12	16.88	16.63	16.82	16.65	16.90	18.5
		25	25	16.97	16.55	16.80	16.73	16.74	18.5
		50	0	16.92	16.61	16.95	16.75	16.68	18.5
BW	Modulation	Channel		39675	40148	40620	41093	41565	Max. Tune-up (dBm)
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5	
5M	QPSK	1	0	16.91	16.76	16.92	16.63	16.60	18.5
		1	12	17.10	17.02	17.07	17.07	16.95	18.5
		1	24	16.76	16.74	16.77	16.80	16.69	18.5
		12	0	16.65	16.61	16.83	16.63	16.86	18.5
		12	6	16.74	16.80	16.83	16.78	16.62	18.5
		12	13	16.79	16.70	16.67	16.60	16.70	18.5
		25	0	16.86	16.80	16.71	16.84	16.76	18.5
	16QAM	1	0	16.90	16.81	16.79	16.62	16.72	18.5
		1	12	17.02	16.92	16.97	17.01	17.15	18.5
		1	24	16.85	16.65	16.88	16.71	16.93	18.5
		12	0	16.72	16.76	16.86	16.74	16.79	18.5
		12	6	16.73	16.89	16.74	16.80	16.68	18.5
		12	13	16.88	16.71	16.90	16.66	16.60	18.5
		25	0	16.81	16.81	16.76	16.66	16.68	18.5
	64QAM	1	0	16.83	16.76	16.59	16.84	16.71	18.5
		1	12	16.75	16.60	16.80	16.72	16.61	18.5
		1	24	16.52	16.62	16.80	16.50	16.70	18.5
		12	0	16.78	16.65	16.72	16.78	16.67	18.5
		12	6	16.85	16.62	16.88	16.66	16.83	18.5
		12	13	17.00	16.51	16.68	16.61	16.78	18.5
		25	0	16.91	16.51	16.91	16.69	16.70	18.5

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BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		132072	132322	132572	
		Frequency (MHz)		1720	1745	1770	
20M	QPSK	1	0	13.89	13.88	13.75	15.5
		1	50	14.12	**14.16**	13.97	15.5
		1	99	14.10	14.08	13.95	15.5
		50	0	13.85	13.88	13.88	15.5
		50	25	13.95	13.97	13.93	15.5
		50	50	13.92	13.94	13.80	15.5
		100	0	13.94	13.99	13.76	15.5
	16QAM	1	0	13.81	13.70	13.79	15.5
		1	50	14.04	14.00	14.02	15.5
		1	99	13.86	13.91	13.80	15.5
		50	0	13.88	13.87	13.88	15.5
		50	25	13.87	13.94	13.86	15.5
		50	50	13.87	13.93	13.71	15.5
		100	0	13.88	13.93	13.73	15.5
	64QAM	1	0	13.67	13.68	13.67	15.5
		1	50	13.89	14.04	13.94	15.5
		1	99	13.77	13.82	13.72	15.5
		50	0	13.82	13.81	13.86	15.5
		50	25	13.87	13.89	13.79	15.5
		50	50	13.91	13.81	13.76	15.5
		100	0	13.88	13.87	13.82	15.5
BW	Modulation	Channel		132047	132322	132597	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1745	1772.5	
15M	QPSK	1	0	13.86	13.83	13.70	15.5
		1	37	14.10	14.10	13.83	15.5
		1	74	13.95	13.98	13.84	15.5
		36	0	13.77	13.78	13.77	15.5
		36	19	13.92	13.83	13.78	15.5
		36	39	13.83	13.90	13.75	15.5
		75	0	13.88	13.93	13.67	15.5
	16QAM	1	0	13.66	13.59	13.64	15.5
		1	37	13.90	13.94	13.96	15.5
		1	74	13.71	13.79	13.70	15.5
		36	0	13.78	13.77	13.84	15.5
		36	19	13.77	13.81	13.73	15.5
		36	39	13.72	13.79	13.66	15.5
		75	0	13.74	13.89	13.67	15.5
	64QAM	1	0	13.62	13.53	13.60	15.5
		1	37	13.85	13.94	13.84	15.5
		1	74	13.63	13.72	13.64	15.5
		36	0	13.78	13.72	13.81	15.5
		36	19	13.78	13.79	13.66	15.5
		36	39	13.85	13.66	13.70	15.5
		75	0	13.73	13.79	13.77	15.5
BW	Modulation	Channel		132022	132322	132622	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1745	1775	
10M	QPSK	1	0	13.80	13.83	13.64	15.5
		1	24	14.00	14.14	13.84	15.5
		1	49	13.95	13.99	13.92	15.5
		25	0	13.73	13.83	13.87	15.5
		25	12	13.94	13.95	13.84	15.5
		25	25	13.91	13.85	13.77	15.5
		50	0	13.92	13.95	13.65	15.5
	16QAM	1	0	13.74	13.62	13.69	15.5
		1	24	13.90	13.92	13.92	15.5
		1	49	13.85	13.77	13.72	15.5
		25	0	13.76	13.86	13.78	15.5
		25	12	13.83	13.84	13.73	15.5
		25	25	13.73	13.91	13.60	15.5
		50	0	13.76	13.89	13.68	15.5
	64QAM	1	0	13.60	13.58	13.55	15.5
		1	24	13.82	14.00	13.92	15.5
		1	49	13.62	13.71	13.68	15.5
		25	0	13.68	13.77	13.71	15.5
		25	12	13.84	13.81	13.75	15.5
		25	25	13.90	13.71	13.63	15.5
		50	0	13.84	13.74	13.76	15.5
BW	Modulation	Channel		131997	132322	132647	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1745	1777.5	
5M	QPSK	1	0	13.77	13.87	13.74	15.5
		1	12	14.06	14.03	13.92	15.5
		1	24	14.08	14.01	13.91	15.5
		12	0	13.75	13.84	13.83	15.5
		12	6	13.94	13.87	13.82	15.5
		12	13	13.83	13.92	13.73	15.5
		25	0	13.82	13.95	13.61	15.5
	16QAM	1	0	13.79	13.58	13.74	15.5
		1	12	13.95	13.96	13.97	15.5
		1	24	13.79	13.82	13.72	15.5
		12	0	13.75	13.79	13.87	15.5
		12	6	13.81	13.80	13.74	15.5
		12	13	13.73	13.79	13.61	15.5
		25	0	13.80	13.81	13.59	15.5
	64QAM	1	0	13.63	13.66	13.57	15.5
		1	12	13.81	13.98	13.89	15.5
		1	24	13.75	13.74	13.71	15.5
		12	0	13.80	13.73	13.76	15.5
		12	6	13.79	13.75	13.69	15.5
		12	13	13.82	13.72	13.62	15.5
		25	0	13.87	13.83	13.68	15.5
BW	Modulation	Channel		131987	132322	132657	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1745	1778.5	
3M	QPSK	1	0	13.82	13.84	13.60	15.5
		1	7	14.07	14.06	13.93	15.5
		1	14	13.99	14.04	13.82	15.5
		8	0	13.78	13.73	13.74	15.5
		8	3	13.85	13.89	13.91	15.5
		8	7	13.87	13.91	13.71	15.5
		15	0	13.81	13.87	13.66	15.5
	16QAM	1	0	13.67	13.58	13.69	15.5
		1	7	14.01	13.92	13.99	15.5
		1	14	13.74	13.81	13.69	15.5
		8	0	13.85	13.80	13.74	15.5
		8	3	13.73	13.82	13.79	15.5
		8	7	13.76	13.87	13.68	15.5
		15	0	13.84	13.80	13.62	15.5
	64QAM	1	0	13.65	13.57	13.53	15.5
		1	7	13.87	13.89	13.81	15.5
		1	14	13.75	13.70	13.57	15.5
		8	0	13.79	13.77	13.73	15.5
		8	3	13.77	13.85	13.73	15.5
		8	7	13.87	13.71	13.61	15.5
		15	0	13.73	13.81	13.73	15.5
BW	Modulation	Channel		131979	132322	132665	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1745	1779.3	
1.4M	QPSK	1	0	13.82	13.77	13.60	15.5
		1	2	14.00	14.08	13.95	15.5
		1	5	14.03	13.97	13.82	15.5
		3	0	13.76	13.81	13.75	15.5
		3	1	13.85	13.92	13.92	15.5
		3	3	13.77	13.85	13.76	15.5
		6	0	13.81	13.89	13.67	15.5
	16QAM	1	0	13.76	13.63	13.75	15.5
		1	2	13.93	13.91	13.95	15.5
		1	5	13.81	13.88	13.66	15.5
		3	0	13.74	13.80	13.77	15.5
		3	1	13.81	13.90	13.81	15.5
		3	3	13.76	13.91	13.57	15.5
		6	0	13.80	13.89	13.58	15.5
	64QAM	1	0	13.65	13.53	13.61	15.5
		1	2	13.88	13.91	13.88	15.5
		1	5	13.68	13.78	13.69	15.5
		3	0	13.77	13.69	13.85	15.5
		3	1	13.76	13.81	13.72	15.5
		3	3	13.89	13.73	13.65	15.5
		6	0	13.80	13.80	13.71	15.5

LTE DSI-2
Ant4

LTE Band 2

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		18700	18900	19100	
		Frequency (MHz)		1860	1880	1900	
20M	QPSK	1	0	20.95	20.86	20.90	22.5
		1	50	**21.11**	21.07	21.03	22.5
		1	99	21.04	21.05	20.97	22.5
		50	0	20.72	20.88	20.76	22.5
		50	25	20.97	20.89	20.85	22.5
		50	50	20.73	20.84	20.81	22.5
		100	0	20.96	20.88	20.67	22.5
	16QAM	1	0	20.79	20.83	20.81	22.5
		1	50	20.97	21.05	21.00	22.5
		1	99	20.80	20.90	20.74	22.5
		50	0	20.81	20.96	20.78	22.5
		50	25	20.82	20.95	20.90	22.5
		50	50	20.86	20.94	20.62	22.5
		100	0	20.86	21.02	20.65	22.5
	64QAM	1	0	20.98	20.68	20.63	22.5
		1	50	21.05	20.79	20.64	22.5
		1	99	20.66	20.71	20.85	22.5
		50	0	20.64	20.89	20.68	22.5
		50	25	20.88	21.00	20.94	22.5
		50	50	20.84	20.87	20.69	22.5
		100	0	20.70	20.96	20.82	22.5
BW	Modulation	Channel		18675	18900	19125	Max. Tune-up (dBm)
		Frequency (MHz)		1857.5	1880	1902.5	
15M	QPSK	1	0	20.89	20.71	20.87	22.5
		1	37	21.01	20.98	21.01	22.5
		1	74	21.01	20.95	20.87	22.5
		36	0	20.59	20.78	20.66	22.5
		36	19	20.91	20.78	20.71	22.5
		36	39	20.58	20.69	20.66	22.5
		75	0	20.89	20.80	20.58	22.5
	16QAM	1	0	20.70	20.68	20.68	22.5
		1	37	20.85	20.92	20.90	22.5
		1	74	20.69	20.52	20.70	22.5
		36	0	20.69	20.82	20.71	22.5
		36	19	20.74	20.92	20.88	22.5
		36	39	20.73	20.88	20.56	22.5
		75	0	20.73	20.92	20.52	22.5
	64QAM	1	0	20.84	20.61	20.53	22.5
		1	37	21.04	20.67	20.51	22.5
		1	74	20.65	20.63	20.78	22.5
		36	0	20.53	20.80	20.59	22.5
		36	19	20.81	20.90	20.81	22.5
		36	39	20.69	20.77	20.60	22.5
		75	0	20.57	20.83	20.78	22.5
BW	Modulation	Channel		18650	18900	19150	Max. Tune-up (dBm)
		Frequency (MHz)		1855	1880	1905	
10M	QPSK	1	0	20.88	20.73	20.80	22.5
		1	24	21.05	20.98	20.99	22.5
		1	49	20.95	20.99	20.90	22.5
		25	0	20.68	20.84	20.70	22.5
		25	12	20.87	20.78	20.71	22.5
		25	25	20.69	20.81	20.67	22.5
		50	0	20.86	20.84	20.60	22.5
	16QAM	1	0	20.72	20.80	20.77	22.5
		1	24	20.95	20.90	20.86	22.5
		1	49	20.72	20.58	20.63	22.5
		25	0	20.68	20.87	20.64	22.5
		25	12	20.70	20.93	20.77	22.5
		25	25	20.83	20.80	20.61	22.5
		50	0	20.84	20.98	20.58	22.5
	64QAM	1	0	20.88	20.56	20.59	22.5
		1	24	20.91	20.72	20.58	22.5
		1	49	20.63	20.69	20.78	22.5
		25	0	20.57	20.77	20.56	22.5
		25	12	20.83	20.86	20.82	22.5
		25	25	20.76	20.84	20.65	22.5
		50	0	20.61	20.90	20.68	22.5
BW	Modulation	Channel		18625	18900	19175	Max. Tune-up (dBm)
		Frequency (MHz)		1852.5	1880	1907.5	
5M	QPSK	1	0	20.89	20.83	20.85	22.5
		1	12	21.03	20.97	20.99	22.5
		1	24	20.99	20.98	20.95	22.5
		12	0	20.67	20.79	20.62	22.5
		12	6	20.96	20.76	20.80	22.5
		12	13	20.72	20.74	20.74	22.5
		25	0	20.92	20.75	20.58	22.5
	16QAM	1	0	20.69	20.78	20.74	22.5
		1	12	20.88	21.01	20.91	22.5
		1	24	20.72	20.54	20.66	22.5
		12	0	20.74	20.88	20.64	22.5
		12	6	20.78	20.86	20.86	22.5
		12	13	20.80	20.92	20.59	22.5
		25	0	20.85	21.00	20.53	22.5
	64QAM	1	0	20.91	20.57	20.55	22.5
		1	12	21.03	20.76	20.63	22.5
		1	24	20.62	20.56	20.74	22.5
		12	0	20.54	20.77	20.54	22.5
		12	6	20.81	20.92	20.87	22.5
		12	13	20.80	20.80	20.65	22.5
		25	0	20.56	20.86	20.69	22.5
BW	Modulation	Channel		18615	18900	19185	Max. Tune-up (dBm)
		Frequency (MHz)		1851.5	1880	1908.5	
3M	QPSK	1	0	20.89	20.84	20.75	22.5
		1	7	21.05	21.04	20.90	22.5
		1	14	20.94	20.94	20.96	22.5
		8	0	20.63	20.75	20.70	22.5
		8	3	20.85	20.86	20.73	22.5
		8	7	20.67	20.80	20.80	22.5
		15	0	20.91	20.75	20.55	22.5
	16QAM	1	0	20.69	20.77	20.69	22.5
		1	7	20.93	20.97	20.94	22.5
		1	14	20.71	20.79	20.66	22.5
		8	0	20.75	20.91	20.69	22.5
		8	3	20.67	20.85	20.79	22.5
		8	7	20.73	20.88	20.53	22.5
		15	0	20.73	20.94	20.58	22.5
	64QAM	1	0	20.92	20.62	20.57	22.5
		1	7	21.01	20.70	20.58	22.5
		1	14	20.55	20.57	20.83	22.5
		8	0	20.55	20.75	20.64	22.5
		8	3	20.75	20.91	20.83	22.5
		8	7	20.71	20.80	20.66	22.5
		15	0	20.64	20.88	20.72	22.5
BW	Modulation	Channel		18607	18900	19193	Max. Tune-up (dBm)
		Frequency (MHz)		1850.7	1880	1909.3	
1.4M	QPSK	1	0	20.85	20.75	20.77	22.5
		1	2	21.07	21.06	20.98	22.5
		1	5	20.94	21.03	20.85	22.5
		3	0	20.65	20.74	20.70	22.5
		3	1	20.90	20.87	20.82	22.5
		3	3	20.63	20.82	20.72	22.5
		6	0	20.87	20.74	20.62	22.5
	16QAM	1	0	20.73	20.79	20.74	22.5
		1	2	20.88	20.91	20.92	22.5
		1	5	20.73	20.55	20.67	22.5
		3	0	20.77	20.92	20.76	22.5
		3	1	20.75	20.92	20.83	22.5
		3	3	20.81	20.81	20.55	22.5
		6	0	20.74	20.95	20.63	22.5
	64QAM	1	0	20.88	20.58	20.89	22.5
		1	2	21.03	20.74	20.51	22.5
		1	5	20.55	20.58	20.70	22.5
		3	0	20.54	20.74	20.64	22.5
		3	1	20.83	20.90	20.88	22.5
		3	3	20.74	20.76	20.62	22.5
		6	0	20.64	20.91	20.72	22.5

LTE Band 4

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20050	20175	20300	
		Frequency (MHz)		1720	1732.5	1745	
20M	QPSK	1	0	20.97	21.06	20.91	22.5
		1	50	21.12	21.09	**21.27**	22.5
		1	99	21.01	20.84	20.71	22.5
		50	0	20.70	20.81	20.71	22.5
		50	25	20.95	20.93	20.97	22.5
		50	50	20.69	20.75	20.79	22.5
		100	0	20.87	20.91	20.80	22.5
	16QAM	1	0	20.81	21.00	20.98	22.5
		1	50	20.84	20.92	20.94	22.5
		1	99	20.76	20.90	21.11	22.5
		50	0	20.76	20.72	20.88	22.5
		50	25	20.76	20.92	20.99	22.5
		50	50	20.74	20.91	20.83	22.5
		100	0	20.75	20.79	20.75	22.5
	64QAM	1	0	20.81	21.01	20.78	22.5
		1	50	20.83	20.90	21.01	22.5
		1	99	20.85	20.93	20.82	22.5
		50	0	20.90	20.81	21.01	22.5
		50	25	20.80	21.04	20.97	22.5
		50	50	21.03	20.96	20.78	22.5
		100	0	20.87	21.12	20.93	22.5
BW	Modulation	Channel		20025	20175	20325	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1732.5	1747.5	
15M	QPSK	1	0	20.93	21.04	20.89	22.5
		1	37	21.10	20.99	21.15	22.5
		1	74	20.98	20.83	20.70	22.5
		36	0	20.68	20.72	20.64	22.5
		36	19	20.88	20.88	20.87	22.5
		36	39	20.59	20.68	20.74	22.5
		75	0	20.75	20.81	20.77	22.5
	16QAM	1	0	20.66	20.98	20.94	22.5
		1	37	20.72	20.80	20.82	22.5
		1	74	20.63	20.86	21.07	22.5
		36	0	20.70	20.66	20.86	22.5
		36	19	20.72	20.84	20.88	22.5
		36	39	20.65	20.88	20.82	22.5
		75	0	20.63	20.77	20.74	22.5
	64QAM	1	0	20.68	20.87	20.70	22.5
		1	37	20.79	20.87	20.99	22.5
		1	74	20.74	20.85	20.69	22.5
		36	0	20.78	20.66	20.99	22.5
		36	19	20.67	20.93	20.95	22.5
		36	39	21.01	20.91	20.72	22.5
		75	0	20.77	21.03	20.85	22.5
BW	Modulation	Channel		20000	20175	20350	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1732.5	1750	
10M	QPSK	1	0	20.94	20.96	20.83	22.5
		1	24	21.11	21.07	21.17	22.5
		1	49	20.93	20.75	20.63	22.5
		25	0	20.66	20.75	20.70	22.5
		25	12	20.80	20.85	20.92	22.5
		25	25	20.55	20.60	20.66	22.5
		50	0	20.72	20.82	20.68	22.5
	16QAM	1	0	20.73	20.95	20.83	22.5
		1	24	20.80	20.83	20.80	22.5
		1	49	20.71	20.76	21.01	22.5
		25	0	20.63	20.59	20.77	22.5
		25	12	20.75	20.88	20.97	22.5
		25	25	20.65	20.87	20.82	22.5
		50	0	20.61	20.71	20.68	22.5
	64QAM	1	0	20.67	21.00	20.67	22.5
		1	24	20.81	20.88	20.88	22.5
		1	49	20.72	20.82	20.77	22.5
		25	0	20.82	20.76	20.88	22.5
		25	12	20.65	20.97	20.92	22.5
		25	25	20.94	20.93	20.74	22.5
		50	0	20.86	21.08	20.91	22.5
BW	Modulation	Channel		19975	20175	20375	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1732.5	1752.5	
5M	QPSK	1	0	20.91	21.02	20.90	22.5
		1	12	20.97	20.95	21.18	22.5
		1	24	20.94	20.78	20.63	22.5
		12	0	20.68	20.70	20.61	22.5
		12	6	20.81	20.78	20.92	22.5
		12	13	20.60	20.64	20.66	22.5
		25	0	20.80	20.76	20.77	22.5
	16QAM	1	0	20.70	20.87	20.96	22.5
		1	12	20.83	20.89	20.86	22.5
		1	24	20.67	20.83	20.97	22.5
		12	0	20.75	20.66	20.84	22.5
		12	6	20.62	20.85	20.96	22.5
		12	13	20.71	20.86	20.81	22.5
		25	0	20.70	20.72	20.71	22.5
	64QAM	1	0	20.67	20.98	20.73	22.5
		1	12	20.70	20.81	20.91	22.5
		1	24	20.71	20.81	20.69	22.5
		12	0	20.88	20.71	21.00	22.5
		12	6	20.71	21.00	20.92	22.5
		12	13	20.97	20.82	20.70	22.5
		25	0	20.84	21.03	20.83	22.5
BW	Modulation	Channel		19965	20175	20385	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1732.5	1753.5	
3M	QPSK	1	0	20.88	21.03	20.88	22.5
		1	7	21.04	20.99	21.25	22.5
		1	14	20.96	20.77	20.69	22.5
		8	0	20.57	20.71	20.62	22.5
		8	3	20.92	20.83	20.92	22.5
		8	7	20.61	20.65	20.72	22.5
		15	0	20.80	20.84	20.72	22.5
	16QAM	1	0	20.74	20.88	20.86	22.5
		1	7	20.74	20.81	20.90	22.5
		1	14	20.72	20.79	21.03	22.5
		8	0	20.69	20.70	20.75	22.5
		8	3	20.72	20.80	20.91	22.5
		8	7	20.59	20.78	20.71	22.5
		15	0	20.74	20.78	20.74	22.5
	64QAM	1	0	20.73	20.86	20.63	22.5
		1	7	20.74	20.77	20.98	22.5
		1	14	20.74	20.92	20.72	22.5
		8	0	20.77	20.73	20.99	22.5
		8	3	20.76	20.92	20.85	22.5
		8	7	20.89	20.93	20.67	22.5
		15	0	20.75	21.03	20.85	22.5
BW	Modulation	Channel		19957	20175	20393	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1732.5	1754.3	
1.4M	QPSK	1	0	20.88	21.04	20.90	22.5
		1	2	21.07	21.01	21.23	22.5
		1	5	20.87	20.80	20.58	22.5
		3	0	20.60	20.67	20.70	22.5
		3	1	20.90	20.78	20.83	22.5
		3	3	20.59	20.67	20.69	22.5
		6	0	20.76	20.77	20.71	22.5
	16QAM	1	0	20.79	20.99	20.95	22.5
		1	2	20.73	20.84	20.92	22.5
		1	5	20.67	20.77	21.10	22.5
		3	0	20.74	20.59	20.81	22.5
		3	1	20.66	20.90	20.98	22.5
		3	3	20.63	20.83	20.77	22.5
		6	0	20.65	20.77	20.65	22.5
	64QAM	1	0	20.68	20.98	20.67	22.5
		1	2	20.82	20.88	21.00	22.5
		1	5	20.70	20.79	20.72	22.5
		3	0	20.84	20.78	20.99	22.5
		3	1	20.75	20.96	20.94	22.5
		3	3	20.90	20.90	20.66	22.5
		6	0	20.78	21.11	20.85	22.5

LTE Band 5

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20450	20525	20600	
		Frequency (MHz)		829	836.5	844	
10M	QPSK	1	0	24.05	24.04	24.11	25.5
		1	24	24.20	24.13	**24.21**	25.5
		1	49	24.12	23.96	24.14	25.5
		25	0	23.14	23.12	23.07	24.5
		25	12	23.15	23.14	23.22	24.5
		25	25	23.09	23.07	23.18	24.5
		50	0	23.12	23.10	23.14	24.5
	16QAM	1	0	23.33	23.31	23.30	24.5
		1	24	23.50	23.33	23.47	24.5
		1	49	23.26	23.30	23.38	24.5
		25	0	22.19	22.19	22.14	23.5
		25	12	22.20	22.15	22.28	23.5
		25	25	22.17	22.16	22.22	23.5
		50	0	22.16	22.18	22.18	23.5
	64QAM	1	0	22.27	22.28	22.28	23.5
		1	24	22.36	22.34	22.56	23.5
		1	49	22.32	22.24	22.37	23.5
		25	0	21.15	21.12	21.13	22.5
		25	12	21.18	21.17	21.21	22.5
		25	25	21.14	21.20	21.20	22.5
		50	0	21.17	21.22	21.17	22.5
BW	Modulation	Channel		20425	20525	20625	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5	
5M	QPSK	1	0	23.95	23.97	24.01	25.5
		1	12	24.15	24.03	24.07	25.5
		1	24	24.02	23.84	24.10	25.5
		12	0	23.05	23.06	23.04	24.5
		12	6	23.05	23.00	23.09	24.5
		12	13	23.08	23.06	23.17	24.5
		25	0	23.10	23.00	23.13	24.5
	16QAM	1	0	23.31	23.30	23.18	24.5
		1	12	23.38	23.24	23.44	24.5
		1	24	23.21	23.19	23.37	24.5
		12	0	22.10	22.05	22.10	23.5
		12	6	22.18	22.09	22.27	23.5
		12	13	22.07	22.13	22.12	23.5
		25	0	22.04	22.05	22.14	23.5
	64QAM	1	0	22.23	22.25	22.25	23.5
		1	12	22.22	22.30	22.46	23.5
		1	24	22.23	22.16	22.29	23.5
		12	0	21.07	21.08	21.03	22.5
		12	6	21.17	21.08	21.19	22.5
		12	13	21.03	21.05	21.06	22.5
		25	0	21.11	21.15	21.05	22.5
BW	Modulation	Channel		20415	20525	20635	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5	
3M	QPSK	1	0	24.00	23.98	23.98	25.5
		1	7	24.09	23.98	24.07	25.5
		1	14	24.10	23.87	24.08	25.5
		8	0	23.12	23.09	22.99	24.5
		8	3	23.06	22.99	23.18	24.5
		8	7	23.03	23.03	23.16	24.5
		15	0	23.06	22.98	23.06	24.5
	16QAM	1	0	23.26	23.19	23.20	24.5
		1	7	23.42	23.24	23.42	24.5
		1	14	23.13	23.27	23.34	24.5
		8	0	22.11	22.11	22.07	23.5
		8	3	22.13	22.04	22.24	23.5
		8	7	22.14	22.05	22.08	23.5
		15	0	22.14	22.15	22.03	23.5
	64QAM	1	0	22.22	22.22	22.24	23.5
		1	7	22.25	22.23	22.55	23.5
		1	14	22.29	22.23	22.29	23.5
		8	0	21.06	21.02	21.05	22.5
		8	3	21.17	21.09	21.12	22.5
		8	7	21.08	21.16	21.18	22.5
		15	0	21.14	21.07	21.14	22.5
BW	Modulation	Channel		20407	20525	20643	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3	
1.4M	QPSK	1	0	24.04	23.99	24.06	25.5
		1	2	24.15	23.98	24.20	25.5
		1	5	23.97	23.84	24.06	25.5
		3	0	24.11	24.10	23.98	25.5
		3	1	24.07	24.08	24.11	25.5
		3	3	24.08	24.00	24.16	25.5
		6	0	23.08	23.03	23.08	24.5
	16QAM	1	0	23.25	23.28	23.27	24.5
		1	2	23.40	23.31	23.46	24.5
		1	5	23.24	23.19	23.26	24.5
		3	0	23.08	23.04	23.00	24.5
		3	1	23.10	23.06	23.26	24.5
		3	3	23.06	23.09	23.16	24.5
		6	0	22.10	22.15	22.06	23.5
	64QAM	1	0	22.23	22.24	22.23	23.5
		1	2	22.21	22.28	22.42	23.5
		1	5	22.23	22.23	22.22	23.5
		3	0	22.07	22.10	22.03	23.5
		3	1	22.16	22.04	22.12	23.5
		3	3	22.13	22.11	22.16	23.5
		6	0	21.05	21.20	21.14	22.5

LTE Band 7

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20850	21100	21350	
		Frequency (MHz)		2510	2535	2560	
20M	QPSK	1	0	21.80	21.89	21.75	23.5
		1	50	**21.97**	21.93	21.89	23.5
		1	99	21.85	21.87	21.83	23.5
		50	0	21.70	21.69	21.70	23.5
		50	25	21.81	21.84	21.71	23.5
		50	50	21.89	21.86	21.88	23.5
		100	0	21.87	21.72	21.84	23.5
	16QAM	1	0	21.84	21.71	21.86	23.5
		1	50	21.80	21.86	21.77	23.5
		1	99	21.91	21.69	21.65	23.5
		50	0	21.35	21.28	21.37	23
		50	25	21.40	21.23	21.16	23
		50	50	21.49	21.17	21.22	23
		100	0	21.40	21.35	21.23	23
	64QAM	1	0	21.38	21.23	21.20	23
		1	50	21.42	21.21	21.37	23
		1	99	21.26	21.15	21.32	23
		50	0	20.20	20.31	20.23	22
		50	25	20.26	20.34	20.37	22
		50	50	20.38	20.19	20.32	22
		100	0	20.23	20.24	20.23	22
BW	Modulation	Channel		20825	21100	21375	Max. Tune-up (dBm)
		Frequency (MHz)		2507.5	2535	2562.5	
15M	QPSK	1	0	21.66	21.84	21.63	23.5
		1	37	21.86	21.80	21.84	23.5
		1	74	21.72	21.75	21.75	23.5
		36	0	21.55	21.63	21.66	23.5
		36	19	21.78	21.74	21.63	23.5
		36	39	21.82	21.74	21.85	23.5
		75	0	21.78	21.58	21.73	23.5
	16QAM	1	0	21.78	21.60	21.71	23.5
		1	37	21.68	21.85	21.70	23.5
		1	74	21.81	21.63	21.64	23.5
		36	0	21.24	21.23	21.24	23
		36	19	21.31	21.12	21.03	23
		36	39	21.35	21.06	21.10	23
		75	0	21.31	21.23	21.08	23
	64QAM	1	0	21.23	21.08	21.12	23
		1	37	21.31	21.06	21.34	23
		1	74	21.23	21.04	21.23	23
		36	0	20.10	20.26	20.21	22
		36	19	20.23	20.19	20.28	22
		36	39	20.29	20.05	20.20	22
		75	0	20.15	20.22	20.19	22
BW	Modulation	Channel		20800	21100	21400	Max. Tune-up (dBm)
		Frequency (MHz)		2505	2535	2565	
10M	QPSK	1	0	21.78	21.81	21.74	23.5
		1	24	21.86	21.85	21.80	23.5
		1	49	21.76	21.78	21.81	23.5
		25	0	21.60	21.55	21.57	23.5
		25	12	21.73	21.70	21.69	23.5
		25	25	21.80	21.75	21.74	23.5
		50	0	21.83	21.60	21.73	23.5
	16QAM	1	0	21.77	21.58	21.71	23.5
		1	24	21.79	21.78	21.64	23.5
		1	49	21.87	21.56	21.61	23.5
		25	0	21.25	21.13	21.25	23
		25	12	21.25	21.14	21.14	23
		25	25	21.37	21.07	21.08	23
		50	0	21.32	21.21	21.21	23
	64QAM	1	0	21.30	21.20	21.11	23
		1	24	21.40	21.08	21.35	23
		1	49	21.19	21.11	21.21	23
		25	0	20.11	20.20	20.16	22
		25	12	20.14	20.24	20.35	22
		25	25	20.25	20.15	20.18	22
		50	0	20.08	20.22	20.22	22
BW	Modulation	Channel		20775	21100	21425	Max. Tune-up (dBm)
		Frequency (MHz)		2502.5	2535	2567.5	
5M	QPSK	1	0	21.71	21.81	21.70	23.5
		1	12	21.96	21.79	21.79	23.5
		1	24	21.74	21.86	21.71	23.5
		12	0	21.56	21.61	21.61	23.5
		12	6	21.79	21.83	21.56	23.5
		12	13	21.81	21.79	21.73	23.5
		25	0	21.84	21.60	21.69	23.5
	16QAM	1	0	21.74	21.61	21.74	23.5
		1	12	21.66	21.84	21.69	23.5
		1	24	21.76	21.57	21.53	23.5
		12	0	21.31	21.22	21.36	23
		12	6	21.30	21.08	21.10	23
		12	13	21.46	21.06	21.21	23
		25	0	21.32	21.25	21.09	23
	64QAM	1	0	21.28	21.08	21.10	23
		1	12	21.40	21.10	21.22	23
		1	24	21.11	21.01	21.23	23
		12	0	20.05	20.19	20.15	22
		12	6	20.21	20.19	20.22	22
		12	13	20.31	20.18	20.19	22
		25	0	20.12	20.13	20.09	22

LTE Band 38

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		37850	38000	38150	
		Frequency (MHz)		2580	2595	2610	
20M	QPSK	1	0	23.21	23.17	23.18	25
		1	50	23.41	**23.48**	23.37	25
		1	99	23.25	23.16	23.14	25
		50	0	22.17	22.35	22.25	24
		50	25	22.34	22.37	22.27	24
		50	50	22.33	22.27	22.16	24
		100	0	22.33	22.36	22.26	24
	16QAM	1	0	22.18	22.30	22.29	24
		1	50	22.56	22.60	22.44	24
		1	99	22.21	22.35	22.16	24
		50	0	21.33	21.42	21.39	23
		50	25	21.41	21.44	21.36	23
		50	50	21.40	21.36	21.22	23
		100	0	21.36	21.37	21.32	23
	64QAM	1	0	21.18	21.15	21.23	23
		1	50	21.21	21.33	21.29	23
		1	99	21.17	21.16	21.15	23
		50	0	20.26	20.36	20.30	22
		50	25	20.37	20.38	20.31	22
		50	50	20.31	20.28	20.16	22
		100	0	20.33	20.35	20.25	22
BW	Modulation	Channel		37825	38000	38175	Max. Tune-up (dBm)
		Frequency (MHz)		2577.5	2595	2612.5	
15M	QPSK	1	0	23.17	23.05	23.12	25
		1	37	23.30	23.46	23.33	25
		1	74	23.15	23.11	23.05	25
		36	0	22.10	22.25	22.20	24
		36	19	22.25	22.33	22.23	24
		36	39	22.26	22.15	22.14	24
		75	0	22.31	22.23	22.11	24
	16QAM	1	0	22.14	22.17	22.23	24
		1	37	22.41	22.49	22.41	24
		1	74	22.13	22.25	22.06	24
		36	0	21.23	21.40	21.30	23
		36	19	21.38	21.36	21.29	23
		36	39	21.34	21.28	21.21	23
		75	0	21.27	21.24	21.31	23
	64QAM	1	0	21.07	21.13	21.21	23
		1	37	21.18	21.31	21.14	23
		1	74	21.02	21.13	21.02	23
		36	0	20.25	20.21	20.16	22
		36	19	20.24	20.30	20.21	22
		36	39	20.19	20.24	20.04	22
		75	0	20.24	20.26	20.11	22
BW	Modulation	Channel		37800	38000	38200	Max. Tune-up (dBm)
		Frequency (MHz)		2575	2595	2615	
10M	QPSK	1	0	23.13	23.10	23.14	25
		1	24	23.40	23.38	23.23	25
		1	49	23.20	23.12	23.01	25
		25	0	22.02	22.29	22.14	24
		25	12	22.20	22.22	22.25	24
		25	25	22.21	22.25	22.14	24
		50	0	22.24	22.24	22.12	24
	16QAM	1	0	22.07	22.25	22.14	24
		1	24	22.43	22.50	22.38	24
		1	49	22.06	22.34	22.10	24
		25	0	21.21	21.28	21.24	23
		25	12	21.40	21.43	21.21	23
		25	25	21.31	21.33	21.07	23
		50	0	21.23	21.30	21.24	23
	64QAM	1	0	21.17	21.01	21.19	23
		1	24	21.10	21.26	21.22	23
		1	49	21.10	21.09	21.01	23
		25	0	20.12	20.29	20.28	22
		25	12	20.24	20.35	20.22	22
		25	25	20.30	20.24	20.14	22
		50	0	20.25	20.22	20.11	22
BW	Modulation	Channel		37775	38000	38225	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5	
5M	QPSK	1	0	23.19	23.13	23.13	25
		1	12	23.40	23.33	23.30	25
		1	24	23.18	23.13	23.08	25
		12	0	22.15	22.32	22.17	24
		12	6	22.28	22.23	22.12	24
		12	13	22.32	22.14	22.03	24
		25	0	22.31	22.33	22.18	24
	16QAM	1	0	22.10	22.23	22.21	24
		1	12	22.41	22.58	22.43	24
		1	24	22.19	22.24	22.08	24
		12	0	21.20	21.27	21.27	23
		12	6	21.38	21.37	21.26	23
		12	13	21.34	21.27	21.18	23
		25	0	21.22	21.31	21.24	23
	64QAM	1	0	21.07	21.09	21.09	23
		1	12	21.13	21.19	21.24	23
		1	24	21.07	21.10	21.05	23
		12	0	20.22	20.29	20.20	22
		12	6	20.24	20.24	20.19	22
		12	13	20.16	20.20	20.14	22
		25	0	20.31	20.22	20.10	22

LTE Band 41 (2496 ~ 2690MHz)

BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	Max. Tune-up (dBm)
		Channel		39750	40185	40620	41055	41490	
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680	
20M	QPSK	1	0	23.52	23.36	23.43	23.28	23.20	25
		1	50	**23.73**	23.58	23.70	23.60	23.62	25
		1	99	23.26	23.23	23.32	23.31	23.19	25
		50	0	22.56	22.52	22.59	22.53	22.39	24
		50	25	22.62	22.54	22.61	22.49	22.52	24
		50	50	22.61	22.51	22.60	22.47	22.46	24
		100	0	22.66	22.56	22.64	22.63	22.57	24
	16QAM	1	0	22.60	22.53	22.55	22.48	22.53	24
		1	50	22.80	22.68	22.79	22.69	22.89	24
		1	99	22.37	22.22	22.35	22.22	22.52	24
		50	0	21.59	21.56	21.65	21.61	21.56	23
		50	25	21.65	21.62	21.67	21.58	21.49	23
		50	50	21.69	21.56	21.62	21.48	21.48	23
		100	0	21.70	21.58	21.66	21.58	21.51	23
	64QAM	1	0	21.31	21.21	21.21	21.17	21.22	23
		1	50	21.44	21.26	21.34	21.22	21.27	23
		1	99	21.22	21.20	21.24	21.19	21.19	23
		50	0	20.56	20.52	20.61	20.60	20.37	22
		50	25	20.64	20.55	20.59	20.45	20.42	22
		50	50	20.63	20.45	20.58	20.53	20.43	22
		100	0	20.65	20.48	20.63	20.51	20.50	22
BW	Modulation	Channel		39725	40173	40620	41068	41515	Max. Tune-up (dBm)
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5	
15M	QPSK	1	0	23.46	23.22	23.39	23.22	23.11	25
		1	37	23.59	23.57	23.68	23.57	23.51	25
		1	74	23.14	23.18	23.27	23.27	23.17	25
		36	0	22.44	22.39	22.45	22.44	22.31	24
		36	19	22.57	22.43	22.57	22.36	22.40	24
		36	39	22.51	22.40	22.55	22.41	22.45	24
		75	0	22.52	22.52	22.63	22.55	22.53	24
	16QAM	1	0	22.52	22.44	22.54	22.34	22.39	24
		1	37	22.70	22.63	22.65	22.66	22.84	24
		1	74	22.32	22.14	22.34	22.11	22.38	24
		36	0	21.53	21.53	21.51	21.60	21.43	23
		36	19	21.64	21.55	21.56	21.52	21.36	23
		36	39	21.65	21.44	21.54	21.43	21.35	23
		75	0	21.57	21.48	21.54	21.47	21.38	23
	64QAM	1	0	21.16	21.13	21.07	21.05	21.08	23
		1	37	21.29	21.23	21.27	21.19	21.18	23
		1	74	21.07	21.14	21.21	21.13	21.10	23
		36	0	20.44	20.45	20.55	20.54	20.34	22
		36	19	20.61	20.41	20.48	20.44	20.31	22
		36	39	20.50	20.43	20.56	20.43	20.40	22
		75	0	20.63	20.40	20.61	20.39	20.35	22
BW	Modulation	Channel		39700	40160	40620	41080	41540	Max. Tune-up (dBm)
		Frequency (MHz)		2501	2547	2593	2639	2685	
10M	QPSK	1	0	23.50	23.32	23.33	23.14	23.06	25
		1	24	23.64	23.54	23.64	23.50	23.57	25
		1	49	23.23	23.15	23.19	23.17	23.05	25
		25	0	22.45	22.38	22.49	22.43	22.25	24
		25	12	22.51	22.46	22.49	22.35	22.49	24
		25	25	22.57	22.38	22.45	22.38	22.44	24
		50	0	22.64	22.47	22.61	22.49	22.46	24
	16QAM	1	0	22.52	22.48	22.44	22.46	22.38	24
		1	24	22.78	22.65	22.64	22.55	22.78	24
		1	49	22.35	22.15	22.31	22.11	22.39	24
		25	0	21.47	21.53	21.64	21.54	21.44	23
		25	12	21.64	21.47	21.59	21.56	21.37	23
		25	25	21.61	21.44	21.49	21.41	21.38	23
		50	0	21.56	21.56	21.65	21.53	21.44	23
	64QAM	1	0	21.27	21.16	21.16	21.06	21.12	23
		1	24	21.30	21.12	21.24	21.08	21.21	23
		1	49	21.09	21.05	21.12	21.14	21.07	23
		25	0	20.48	20.39	20.51	20.57	20.29	22
		25	12	20.61	20.51	20.47	20.39	20.39	22
		25	25	20.49	20.40	20.56	20.47	20.32	22
		50	0	20.58	20.43	20.55	20.42	20.43	22
BW	Modulation	Channel		39675	40148	40620	41093	41565	Max. Tune-up (dBm)
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5	
5M	QPSK	1	0	23.40	23.23	23.35	23.22	23.14	25
		1	12	23.69	23.54	23.69	23.49	23.57	25
		1	24	23.18	23.20	23.18	23.28	23.04	25
		12	0	22.54	22.51	22.50	22.42	22.35	24
		12	6	22.61	22.44	22.49	22.46	22.44	24
		12	13	22.47	22.38	22.49	22.45	22.41	24
		25	0	22.60	22.51	22.56	22.57	22.45	24
	16QAM	1	0	22.56	22.42	22.52	22.42	22.44	24
		1	12	22.65	22.53	22.75	22.66	22.77	24
		1	24	22.24	22.14	22.31	22.09	22.46	24
		12	0	21.55	21.47	21.54	21.60	21.51	23
		12	6	21.52	21.51	21.56	21.57	21.34	23
		12	13	21.62	21.55	21.60	21.44	21.44	23
		25	0	21.56	21.57	21.56	21.43	21.43	23
	64QAM	1	0	21.20	21.15	21.12	21.11	21.11	23
		1	12	21.34	21.21	21.26	21.08	21.17	23
		1	24	21.07	21.09	21.22	21.14	21.16	23
		12	0	20.53	20.45	20.51	20.46	20.35	22
		12	6	20.52	20.43	20.52	20.30	20.36	22
		12	13	20.56	20.35	20.56	20.51	20.34	22
		25	0	20.62	20.42	20.62	20.45	20.48	22

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BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		132072	132322	132572	
		Frequency (MHz)		1720	1745	1770	
20M	QPSK	1	0	20.88	20.93	20.87	22.5
		1	50	21.09	**21.14**	21.12	22.5
		1	99	20.92	20.79	20.73	22.5
		50	0	20.67	20.74	20.77	22.5
		50	25	20.86	20.98	20.94	22.5
		50	50	20.72	20.79	20.85	22.5
		100	0	20.80	20.95	20.74	22.5
	16QAM	1	0	20.73	20.62	20.87	22.5
		1	50	20.96	20.93	20.98	22.5
		1	99	20.66	20.76	20.95	22.5
		50	0	20.72	20.68	20.74	22.5
		50	25	20.73	20.79	20.83	22.5
		50	50	20.67	20.76	20.77	22.5
		100	0	20.73	20.70	20.67	22.5
	64QAM	1	0	20.81	20.95	20.78	22.5
		1	50	20.85	20.91	20.93	22.5
		1	99	20.68	20.86	20.65	22.5
		50	0	20.87	20.83	20.89	22.5
		50	25	20.85	21.03	20.89	22.5
		50	50	20.95	20.85	20.75	22.5
		100	0	20.88	20.93	20.83	22.5
BW	Modulation	Channel		132047	132322	132597	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1745	1772.5	
15M	QPSK	1	0	20.83	20.92	20.79	22.5
		1	37	21.00	21.10	21.01	22.5
		1	74	20.88	20.65	20.62	22.5
		36	0	20.59	20.73	20.72	22.5
		36	19	20.75	20.94	20.81	22.5
		36	39	20.57	20.69	20.76	22.5
		75	0	20.74	20.88	20.69	22.5
	16QAM	1	0	20.63	20.53	20.75	22.5
		1	37	20.87	20.81	20.87	22.5
		1	74	20.61	20.66	20.80	22.5
		36	0	20.65	20.57	20.61	22.5
		36	19	20.63	20.68	20.71	22.5
		36	39	20.52	20.71	20.68	22.5
		75	0	20.60	20.56	20.59	22.5
	64QAM	1	0	20.80	20.81	20.75	22.5
		1	37	20.80	20.88	20.84	22.5
		1	74	20.60	20.82	20.62	22.5
		36	0	20.85	20.74	20.80	22.5
		36	19	20.81	20.99	20.86	22.5
		36	39	20.88	20.74	20.65	22.5
		75	0	20.79	20.80	20.81	22.5
BW	Modulation	Channel		132022	132322	132622	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1745	1775	
10M	QPSK	1	0	20.87	20.86	20.82	22.5
		1	24	20.95	21.07	20.97	22.5
		1	49	20.81	20.75	20.66	22.5
		25	0	20.58	20.65	20.67	22.5
		25	12	20.77	20.95	20.83	22.5
		25	25	20.58	20.68	20.80	22.5
		50	0	20.75	20.86	20.60	22.5
	16QAM	1	0	20.69	20.57	20.77	22.5
		1	24	20.87	20.79	20.95	22.5
		1	49	20.58	20.65	20.80	22.5
		25	0	20.71	20.53	20.71	22.5
		25	12	20.66	20.72	20.76	22.5
		25	25	20.59	20.61	20.76	22.5
		50	0	20.63	20.58	20.52	22.5
	64QAM	1	0	20.80	20.87	20.67	22.5
		1	24	20.74	20.83	20.90	22.5
		1	49	20.53	20.79	20.52	22.5
		25	0	20.82	20.82	20.81	22.5
		25	12	20.81	20.92	20.86	22.5
		25	25	20.90	20.72	20.66	22.5
		50	0	20.83	20.84	20.73	22.5
BW	Modulation	Channel		131997	132322	132647	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1745	1777.5	
5M	QPSK	1	0	20.75	20.88	20.78	22.5
		1	12	21.02	21.01	21.02	22.5
		1	24	20.90	20.72	20.67	22.5
		12	0	20.59	20.70	20.71	22.5
		12	6	20.75	20.87	20.89	22.5
		12	13	20.62	20.64	20.77	22.5
		25	0	20.69	20.89	20.65	22.5
	16QAM	1	0	20.63	20.51	20.82	22.5
		1	12	20.83	20.86	20.87	22.5
		1	24	20.57	20.73	20.90	22.5
		12	0	20.57	20.66	20.72	22.5
		12	6	20.62	20.69	20.78	22.5
		12	13	20.65	20.73	20.72	22.5
		25	0	20.66	20.65	20.54	22.5
	64QAM	1	0	20.77	20.85	20.64	22.5
		1	12	20.77	20.90	20.80	22.5
		1	24	20.64	20.79	20.63	22.5
		12	0	20.83	20.76	20.83	22.5
		12	6	20.76	20.88	20.87	22.5
		12	13	20.92	20.71	20.73	22.5
		25	0	20.83	20.86	20.75	22.5
BW	Modulation	Channel		131987	132322	132657	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1745	1778.5	
3M	QPSK	1	0	20.83	20.81	20.83	22.5
		1	7	20.98	21.11	21.02	22.5
		1	14	20.79	20.64	20.70	22.5
		8	0	20.62	20.72	20.69	22.5
		8	3	20.80	20.97	20.91	22.5
		8	7	20.71	20.78	20.77	22.5
		15	0	20.70	20.91	20.59	22.5
	16QAM	1	0	20.60	20.61	20.76	22.5
		1	7	20.94	20.85	20.95	22.5
		1	14	20.62	20.63	20.89	22.5
		8	0	20.62	20.57	20.66	22.5
		8	3	20.59	20.70	20.72	22.5
		8	7	20.60	20.67	20.63	22.5
		15	0	20.62	20.64	20.63	22.5
	64QAM	1	0	20.75	20.82	20.63	22.5
		1	7	20.82	20.88	20.81	22.5
		1	14	20.60	20.85	20.64	22.5
		8	0	20.83	20.69	20.83	22.5
		8	3	20.80	20.93	20.83	22.5
		8	7	20.92	20.79	20.71	22.5
		15	0	20.76	20.87	20.80	22.5
BW	Modulation	Channel		131979	132322	132665	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1745	1779.3	
1.4M	QPSK	1	0	20.77	20.88	20.73	22.5
		1	2	20.96	21.01	21.07	22.5
		1	5	20.90	20.64	20.71	22.5
		3	0	20.58	20.62	20.67	22.5
		3	1	20.80	20.90	20.88	22.5
		3	3	20.58	20.75	20.76	22.5
		6	0	20.68	20.82	20.69	22.5
	16QAM	1	0	20.64	20.56	20.85	22.5
		1	2	20.93	20.82	20.92	22.5
		1	5	20.58	20.65	20.80	22.5
		3	0	20.65	20.58	20.72	22.5
		3	1	20.72	20.71	20.79	22.5
		3	3	20.64	20.68	20.76	22.5
		6	0	20.70	20.67	20.62	22.5
	64QAM	1	0	20.68	20.88	20.70	22.5
		1	2	20.77	20.82	20.81	22.5
		1	5	20.63	20.74	20.61	22.5
		3	0	20.84	20.82	20.86	22.5
		3	1	20.79	20.91	20.84	22.5
		3	3	20.92	20.82	20.74	22.5
		6	0	20.86	20.78	20.75	22.5

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LTE Band 2

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		18700	18900	19100	
		Frequency (MHz)		1860	1880	1900	
20M	QPSK	1	0	16.90	16.93	16.84	18.5
		1	50	**17.35**	17.20	17.33	18.5
		1	99	16.92	16.93	17.01	18.5
		50	0	16.68	16.88	16.65	18.5
		50	25	17.01	16.90	16.84	18.5
		50	50	16.86	16.86	16.79	18.5
		100	0	16.96	16.94	16.74	18.5
	16QAM	1	0	16.67	16.64	16.89	18.5
		1	50	17.02	17.14	17.09	18.5
		1	99	16.85	16.71	16.91	18.5
		50	0	16.90	16.96	16.76	18.5
		50	25	16.97	16.95	16.90	18.5
		50	50	16.98	17.00	16.62	18.5
		100	0	16.93	17.11	16.75	18.5
	64QAM	1	0	17.07	16.68	16.75	18.5
		1	50	17.05	17.05	17.28	18.5
		1	99	16.81	16.72	16.83	18.5
		50	0	16.60	16.92	16.79	18.5
		50	25	16.85	16.96	16.97	18.5
		50	50	16.99	16.92	16.72	18.5
		100	0	16.85	17.13	16.85	18.5
BW	Modulation	Channel		18675	18900	19125	Max. Tune-up (dBm)
		Frequency (MHz)		1857.5	1880	1902.5	
15M	QPSK	1	0	16.88	16.85	16.83	18.5
		1	37	17.33	17.05	17.24	18.5
		1	74	16.84	16.88	16.97	18.5
		36	0	16.65	16.76	16.57	18.5
		36	19	16.93	16.77	16.77	18.5
		36	39	16.75	16.77	16.75	18.5
		75	0	16.88	16.79	16.72	18.5
	16QAM	1	0	16.57	16.61	16.85	18.5
		1	37	16.88	17.01	16.94	18.5
		1	74	16.78	16.69	16.80	18.5
		36	0	16.84	16.95	16.74	18.5
		36	19	16.93	16.84	16.76	18.5
		36	39	16.88	16.85	16.61	18.5
		75	0	16.84	17.02	16.66	18.5
	64QAM	1	0	16.94	16.57	16.65	18.5
		1	37	16.98	17.04	17.19	18.5
		1	74	16.69	16.70	16.73	18.5
		36	0	16.59	16.77	16.76	18.5
		36	19	16.76	16.87	16.86	18.5
		36	39	16.88	16.81	16.63	18.5
		75	0	16.83	17.02	16.76	18.5
BW	Modulation	Channel		18650	18900	19150	Max. Tune-up (dBm)
		Frequency (MHz)		1855	1880	1905	
10M	QPSK	1	0	16.86	16.87	16.75	18.5
		1	24	17.24	17.13	17.28	18.5
		1	49	16.89	16.87	16.91	18.5
		25	0	16.58	16.73	16.59	18.5
		25	12	16.86	16.80	16.71	18.5
		25	25	16.76	16.77	16.66	18.5
		50	0	16.89	16.89	16.73	18.5
	16QAM	1	0	16.53	16.51	16.83	18.5
		1	24	16.93	17.08	16.98	18.5
		1	49	16.71	16.58	16.90	18.5
		25	0	16.84	16.83	16.63	18.5
		25	12	16.86	16.80	16.84	18.5
		25	25	16.85	16.98	16.78	18.5
		50	0	16.89	17.08	16.61	18.5
	64QAM	1	0	17.05	16.59	16.71	18.5
		1	24	16.92	17.03	17.14	18.5
		1	49	16.68	16.61	16.68	18.5
		25	0	16.83	16.85	16.78	18.5
		25	12	16.82	16.84	16.94	18.5
		25	25	16.98	16.82	16.62	18.5
		50	0	16.81	17.08	16.81	18.5
BW	Modulation	Channel		18625	18900	19175	Max. Tune-up (dBm)
		Frequency (MHz)		1852.5	1880	1907.5	
5M	QPSK	1	0	16.79	16.80	16.82	18.5
		1	12	17.21	17.19	17.20	18.5
		1	24	16.81	16.85	16.96	18.5
		12	0	16.60	16.82	16.51	18.5
		12	6	17.00	16.80	16.64	18.5
		12	13	16.74	16.83	16.72	18.5
		25	0	16.89	16.84	16.65	18.5
	16QAM	1	0	16.55	16.53	16.78	18.5
		1	12	16.89	17.00	16.95	18.5
		1	24	16.84	16.62	16.88	18.5
		12	0	16.79	16.82	16.72	18.5
		12	6	16.96	16.93	16.88	18.5
		12	13	16.86	16.89	16.60	18.5
		25	0	16.92	17.09	16.69	18.5
	64QAM	1	0	16.98	16.64	16.68	18.5
		1	12	16.94	16.98	17.13	18.5
		1	24	16.69	16.58	16.72	18.5
		12	0	16.58	16.85	16.67	18.5
		12	6	16.79	16.92	16.94	18.5
		12	13	16.91	16.81	16.62	18.5
		25	0	16.70	16.98	16.72	18.5
BW	Modulation	Channel		18615	18900	19185	Max. Tune-up (dBm)
		Frequency (MHz)		1851.5	1880	1908.5	
3M	QPSK	1	0	16.88	16.78	16.76	18.5
		1	7	17.33	17.19	17.25	18.5
		1	14	16.77	16.79	16.98	18.5
		8	0	16.67	16.79	16.57	18.5
		8	3	16.90	16.76	16.72	18.5
		8	7	16.74	16.86	16.65	18.5
		15	0	16.80	16.91	16.59	18.5
	16QAM	1	0	16.52	16.54	16.85	18.5
		1	7	16.97	17.10	17.05	18.5
		1	14	16.75	16.57	16.82	18.5
		8	0	16.80	16.91	16.75	18.5
		8	3	16.94	16.82	16.77	18.5
		8	7	16.90	16.89	16.55	18.5
		15	0	16.79	17.06	16.74	18.5
	64QAM	1	0	16.94	16.57	16.66	18.5
		1	7	16.95	17.04	17.15	18.5
		1	14	16.72	16.57	16.72	18.5
		8	0	16.55	16.80	16.77	18.5
		8	3	16.78	16.92	16.94	18.5
		8	7	16.95	16.78	16.59	18.5
		15	0	16.76	16.98	16.78	18.5
BW	Modulation	Channel		18607	18900	19193	Max. Tune-up (dBm)
		Frequency (MHz)		1850.7	1880	1909.3	
1.4M	QPSK	1	0	16.88	16.92	16.69	18.5
		1	2	17.21	17.18	17.29	18.5
		1	5	16.79	16.83	16.97	18.5
		3	0	16.55	16.75	16.83	18.5
		3	1	16.92	16.85	16.73	18.5
		3	3	16.75	16.82	16.67	18.5
		6	0	16.83	16.90	16.61	18.5
	16QAM	1	0	16.55	16.61	16.77	18.5
		1	2	16.87	17.09	17.05	18.5
		1	5	16.78	16.63	16.81	18.5
		3	0	16.80	16.92	16.73	18.5
		3	1	16.83	16.90	16.79	18.5
		3	3	16.94	16.89	16.55	18.5
		6	0	16.89	16.99	16.69	18.5
	64QAM	1	0	16.97	16.62	16.66	18.5
		1	2	16.91	16.92	17.19	18.5
		1	5	16.67	16.69	16.71	18.5
		3	0	16.96	16.78	16.72	18.5
		3	1	16.84	16.94	16.93	18.5
		3	3	16.95	16.77	16.58	18.5
		6	0	16.76	16.99	16.74	18.5

LTE Band 4

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20050	20175	20300	
		Frequency (MHz)		1720	1732.5	1745	
20M	QPSK	1	0	17.28	17.49	17.25	19
		1	50	17.60	17.59	**17.66**	19
		1	99	17.37	17.24	17.39	19
		50	0	17.29	17.19	17.29	19
		50	25	17.40	17.33	17.31	19
		50	50	17.31	17.10	17.31	19
		100	0	17.30	17.19	17.41	19
	16QAM	1	0	17.50	17.23	17.31	19
		1	50	17.34	17.40	17.41	19
		1	99	17.34	17.21	17.10	19
		50	0	17.28	17.15	17.19	19
		50	25	17.36	17.42	17.46	19
		50	50	17.23	17.39	17.16	19
		100	0	17.28	17.28	17.29	19
	64QAM	1	0	17.24	17.23	17.43	19
		1	50	17.33	17.29	17.19	19
		1	99	17.26	17.35	17.29	19
		50	0	17.49	17.54	17.32	19
		50	25	17.40	17.61	17.49	19
		50	50	17.50	17.54	17.18	19
		100	0	17.20	17.24	17.45	19
BW	Modulation	Channel		20025	20175	20325	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1732.5	1747.5	
15M	QPSK	1	0	17.13	17.41	17.21	19
		1	37	17.55	17.46	17.55	19
		1	74	17.35	17.19	17.31	19
		36	0	17.24	17.10	17.16	19
		36	19	17.27	17.31	17.18	19
		36	39	17.20	17.08	17.22	19
		75	0	17.22	17.10	17.35	19
	16QAM	1	0	17.37	17.15	17.19	19
		1	37	17.25	17.27	17.32	19
		1	74	17.24	17.12	17.05	19
		36	0	17.25	17.14	17.17	19
		36	19	17.29	17.27	17.36	19
		36	39	17.13	17.28	17.04	19
		75	0	17.17	17.24	17.20	19
	64QAM	1	0	17.16	17.18	17.36	19
		1	37	17.26	17.22	17.15	19
		1	74	17.13	17.29	17.16	19
		36	0	17.42	17.48	17.19	19
		36	19	17.25	17.60	17.46	19
		36	39	17.49	17.45	17.05	19
		75	0	17.11	17.14	17.33	19
BW	Modulation	Channel		20000	20175	20350	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1732.5	1750	
10M	QPSK	1	0	17.27	17.34	17.21	19
		1	24	17.52	17.45	17.62	19
		1	49	17.26	17.17	17.29	19
		25	0	17.16	17.06	17.18	19
		25	12	17.35	17.30	17.29	19
		25	25	17.27	17.08	17.24	19
		50	0	17.26	17.08	17.39	19
	16QAM	1	0	17.43	17.19	17.27	19
		1	24	17.31	17.38	17.33	19
		1	49	17.27	17.08	17.01	19
		25	0	17.18	17.22	17.17	19
		25	12	17.26	17.27	17.36	19
		25	25	17.12	17.28	17.03	19
		50	0	17.14	17.22	17.17	19
	64QAM	1	0	17.10	17.17	17.41	19
		1	24	17.21	17.16	17.10	19
		1	49	17.23	17.28	17.17	19
		25	0	17.43	17.39	17.28	19
		25	12	17.36	17.55	17.47	19
		25	25	17.41	17.41	17.09	19
		50	0	17.13	17.10	17.37	19
BW	Modulation	Channel		19975	20175	20375	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1732.5	1752.5	
5M	QPSK	1	0	17.16	17.46	17.23	19
		1	12	17.51	17.47	17.63	19
		1	24	17.35	17.15	17.33	19
		12	0	17.19	17.10	17.26	19
		12	6	17.36	17.25	17.23	19
		12	13	17.16	17.23	17.27	19
		25	0	17.21	17.05	17.39	19
	16QAM	1	0	17.38	17.09	17.18	19
		1	12	17.29	17.33	17.33	19
		1	24	17.26	17.15	17.16	19
		12	0	17.16	17.09	17.14	19
		12	6	17.29	17.29	17.45	19
		12	13	17.17	17.29	17.08	19
		25	0	17.19	17.23	17.23	19
	64QAM	1	0	17.12	17.15	17.29	19
		1	12	17.22	17.14	17.05	19
		1	24	17.12	17.31	17.27	19
		12	0	17.47	17.47	17.17	19
		12	6	17.27	17.52	17.46	19
		12	13	17.49	17.48	17.11	19
		25	0	17.09	17.13	17.44	19
BW	Modulation	Channel		19965	20175	20385	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1732.5	1753.5	
3M	QPSK	1	0	17.18	17.42	17.17	19
		1	7	17.55	17.45	17.52	19
		1	14	17.28	17.14	17.36	19
		8	0	17.24	17.04	17.14	19
		8	3	17.37	17.27	17.17	19
		8	7	17.19	17.23	17.16	19
		15	0	17.19	17.18	17.36	19
	16QAM	1	0	17.42	17.10	17.22	19
		1	7	17.23	17.38	17.26	19
		1	14	17.27	17.16	17.06	19
		8	0	17.15	17.13	17.06	19
		8	3	17.23	17.33	17.44	19
		8	7	17.12	17.25	17.15	19
		15	0	17.16	17.20	17.18	19
	64QAM	1	0	17.12	17.18	17.33	19
		1	7	17.28	17.27	17.11	19
		1	14	17.24	17.26	17.21	19
		8	0	17.36	17.42	17.29	19
		8	3	17.37	17.48	17.41	19
		8	7	17.49	17.45	17.04	19
		15	0	17.10	17.15	17.38	19
BW	Modulation	Channel		19957	20175	20393	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1732.5	1754.3	
1.4M	QPSK	1	0	17.19	17.34	17.21	19
		1	2	17.49	17.51	17.54	19
		1	5	17.30	17.09	17.26	19
		3	0	17.27	17.10	17.27	19
		3	1	17.32	17.31	17.19	19
		3	3	17.30	17.15	17.16	19
		6	0	17.23	17.16	17.35	19
	16QAM	1	0	17.42	17.15	17.28	19
		1	2	17.30	17.38	17.37	19
		1	5	17.32	17.19	17.07	19
		3	0	17.21	17.03	17.14	19
		3	1	17.28	17.28	17.39	19
		3	3	17.22	17.25	17.02	19
		6	0	17.14	17.21	17.28	19
	64QAM	1	0	17.18	17.09	17.41	19
		1	2	17.29	17.28	17.09	19
		1	5	17.12	17.28	17.17	19
		3	0	17.46	17.49	17.17	19
		3	1	17.38	17.54	17.35	19
		3	3	17.44	17.53	17.06	19
		6	0	17.17	17.10	17.38	19

LTE Band 5

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20450	20525	20600	
		Frequency (MHz)		829	836.5	844	
10M	QPSK	1	0	24.05	24.04	24.11	25.5
		1	24	24.20	24.13	**24.21**	25.5
		1	49	24.12	23.96	24.14	25.5
		25	0	23.14	23.12	23.07	24.5
		25	12	23.15	23.14	23.22	24.5
		25	25	23.09	23.07	23.18	24.5
		50	0	23.12	23.10	23.14	24.5
	16QAM	1	0	23.33	23.31	23.30	24.5
		1	24	23.50	23.33	23.47	24.5
		1	49	23.26	23.30	23.38	24.5
		25	0	22.19	22.19	22.14	23.5
		25	12	22.20	22.15	22.28	23.5
		25	25	22.17	22.16	22.22	23.5
		50	0	22.16	22.18	22.18	23.5
	64QAM	1	0	22.27	22.28	22.28	23.5
		1	24	22.36	22.34	22.56	23.5
		1	49	22.32	22.24	22.37	23.5
		25	0	21.15	21.12	21.13	22.5
		25	12	21.18	21.17	21.21	22.5
		25	25	21.14	21.20	21.20	22.5
		50	0	21.17	21.22	21.17	22.5
BW	Modulation	Channel		20425	20525	20625	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5	
5M	QPSK	1	0	23.95	23.97	24.01	25.5
		1	12	24.15	24.03	24.07	25.5
		1	24	24.02	23.84	24.10	25.5
		12	0	23.05	23.06	23.04	24.5
		12	6	23.05	23.00	23.09	24.5
		12	13	23.08	23.06	23.17	24.5
		25	0	23.10	23.00	23.13	24.5
	16QAM	1	0	23.31	23.30	23.18	24.5
		1	12	23.38	23.24	23.44	24.5
		1	24	23.21	23.19	23.37	24.5
		12	0	22.10	22.05	22.10	23.5
		12	6	22.18	22.09	22.27	23.5
		12	13	22.07	22.13	22.12	23.5
		25	0	22.04	22.05	22.14	23.5
	64QAM	1	0	22.23	22.25	22.25	23.5
		1	12	22.22	22.30	22.46	23.5
		1	24	22.23	22.16	22.29	23.5
		12	0	21.07	21.08	21.03	22.5
		12	6	21.17	21.08	21.19	22.5
		12	13	21.03	21.05	21.06	22.5
		25	0	21.11	21.15	21.05	22.5
BW	Modulation	Channel		20415	20525	20635	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5	
3M	QPSK	1	0	24.00	23.98	23.98	25.5
		1	7	24.09	23.98	24.07	25.5
		1	14	24.10	23.87	24.08	25.5
		8	0	23.12	23.09	22.99	24.5
		8	3	23.06	22.99	23.18	24.5
		8	7	23.03	23.03	23.16	24.5
		15	0	23.06	22.98	23.06	24.5
	16QAM	1	0	23.26	23.19	23.20	24.5
		1	7	23.42	23.24	23.42	24.5
		1	14	23.13	23.27	23.34	24.5
		8	0	22.11	22.11	22.07	23.5
		8	3	22.13	22.04	22.24	23.5
		8	7	22.14	22.05	22.08	23.5
		15	0	22.14	22.15	22.03	23.5
	64QAM	1	0	22.22	22.22	22.24	23.5
		1	7	22.25	22.23	22.55	23.5
		1	14	22.29	22.23	22.29	23.5
		8	0	21.06	21.02	21.05	22.5
		8	3	21.17	21.09	21.12	22.5
		8	7	21.08	21.16	21.18	22.5
		15	0	21.14	21.07	21.14	22.5
BW	Modulation	Channel		20407	20525	20643	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3	
1.4M	QPSK	1	0	24.04	23.99	24.06	25.5
		1	2	24.15	23.98	24.20	25.5
		1	5	23.97	23.84	24.06	25.5
		3	0	24.11	24.10	23.98	25.5
		3	1	24.07	24.08	24.11	25.5
		3	3	24.08	24.00	24.16	25.5
		6	0	23.08	23.03	23.08	24.5
	16QAM	1	0	23.25	23.28	23.27	24.5
		1	2	23.40	23.31	23.46	24.5
		1	5	23.24	23.19	23.26	24.5
		3	0	23.08	23.04	23.00	24.5
		3	1	23.10	23.06	23.26	24.5
		3	3	23.06	23.09	23.16	24.5
		6	0	22.10	22.15	22.06	23.5
	64QAM	1	0	22.23	22.24	22.23	23.5
		1	2	22.21	22.28	22.42	23.5
		1	5	22.23	22.23	22.22	23.5
		3	0	22.07	22.10	22.03	23.5
		3	1	22.16	22.04	22.12	23.5
		3	3	22.13	22.11	22.16	23.5
		6	0	21.05	21.20	21.14	22.5

LTE Band 7

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
BW	Modulation	Channel		20850	21100	21350	Max. Tune-up (dBm)
		Frequency (MHz)		2510	2535	2560	
20M	QPSK	1	0	15.94	15.87	15.83	17.5
20M	QPSK	1	50	**16.01**	15.97	15.90	17.5
20M	QPSK	1	99	15.99	15.84	15.88	17.5
20M	QPSK	50	0	15.85	15.91	15.83	17.5
20M	QPSK	50	25	15.91	15.84	15.87	17.5
20M	QPSK	50	50	15.94	15.92	15.89	17.5
20M	QPSK	100	0	15.92	15.83	15.75	17.5
20M	16QAM	1	0	15.81	15.65	15.66	17.5
20M	16QAM	1	50	15.85	15.77	15.81	17.5
20M	16QAM	1	99	15.78	15.98	15.87	17.5
20M	16QAM	50	0	15.75	15.64	15.78	17.5
20M	16QAM	50	25	15.72	15.68	15.92	17.5
20M	16QAM	50	50	15.79	15.83	15.88	17.5
20M	16QAM	100	0	15.85	15.81	15.76	17.5
20M	64QAM	1	0	15.91	15.84	15.92	17.5
20M	64QAM	1	50	15.91	15.75	15.68	17.5
20M	64QAM	1	99	15.74	15.75	15.83	17.5
20M	64QAM	50	0	15.73	15.66	15.77	17.5
20M	64QAM	50	25	15.83	15.83	15.82	17.5
20M	64QAM	50	50	15.94	15.73	15.81	17.5
20M	64QAM	100	0	15.76	15.70	15.68	17.5
BW	Modulation	Channel		20825	21100	21375	Max. Tune-up (dBm)
		Frequency (MHz)		2507.5	2535	2562.5	
15M	QPSK	1	0	15.81	15.77	15.73	17.5
15M	QPSK	1	37	15.94	15.84	15.77	17.5
15M	QPSK	1	74	15.89	15.83	15.75	17.5
15M	QPSK	36	0	15.82	15.88	15.70	17.5
15M	QPSK	36	19	15.87	15.77	15.86	17.5
15M	QPSK	36	39	15.87	15.78	15.79	17.5
15M	QPSK	75	0	15.80	15.70	15.60	17.5
15M	16QAM	1	0	15.67	15.64	15.60	17.5
15M	16QAM	1	37	15.74	15.67	15.68	17.5
15M	16QAM	1	74	15.67	15.88	15.72	17.5
15M	16QAM	36	0	15.63	15.57	15.73	17.5
15M	16QAM	36	19	15.61	15.64	15.81	17.5
15M	16QAM	36	39	15.67	15.76	15.86	17.5
15M	16QAM	75	0	15.76	15.73	15.71	17.5
15M	64QAM	1	0	15.77	15.83	15.78	17.5
15M	64QAM	1	37	15.89	15.67	15.62	17.5
15M	64QAM	1	74	15.62	15.61	15.71	17.5
15M	64QAM	36	0	15.63	15.58	15.71	17.5
15M	64QAM	36	19	15.80	15.77	15.72	17.5
15M	64QAM	36	39	15.91	15.71	15.66	17.5
15M	64QAM	75	0	15.71	15.56	15.66	17.5
BW	Modulation	Channel		20800	21100	21400	Max. Tune-up (dBm)
		Frequency (MHz)		2505	2535	2565	
10M	QPSK	1	0	15.79	15.78	15.69	17.5
10M	QPSK	1	24	15.87	15.89	15.75	17.5
10M	QPSK	1	49	15.96	15.72	15.81	17.5
10M	QPSK	25	0	15.75	15.84	15.71	17.5
10M	QPSK	25	12	15.89	15.75	15.81	17.5
10M	QPSK	25	25	15.83	15.83	15.84	17.5
10M	QPSK	50	0	15.84	15.76	15.65	17.5
10M	16QAM	1	0	15.76	15.55	15.59	17.5
10M	16QAM	1	24	15.70	15.64	15.77	17.5
10M	16QAM	1	49	15.66	15.89	15.83	17.5
10M	16QAM	25	0	15.72	15.57	15.67	17.5
10M	16QAM	25	12	15.67	15.66	15.80	17.5
10M	16QAM	25	25	15.73	15.77	15.76	17.5
10M	16QAM	50	0	15.80	15.66	15.73	17.5
10M	64QAM	1	0	15.83	15.77	15.89	17.5
10M	64QAM	1	24	15.81	15.74	15.64	17.5
10M	64QAM	1	49	15.68	15.60	15.80	17.5
10M	64QAM	25	0	15.66	15.59	15.63	17.5
10M	64QAM	25	12	15.69	15.71	15.72	17.5
10M	64QAM	25	25	15.91	15.64	15.77	17.5
10M	64QAM	50	0	15.66	15.55	15.58	17.5
BW	Modulation	Channel		20775	21100	21425	Max. Tune-up (dBm)
		Frequency (MHz)		2502.5	2535	2567.5	
5M	QPSK	1	0	15.87	15.80	15.78	17.5
5M	QPSK	1	12	15.88	15.86	15.86	17.5
5M	QPSK	1	24	15.93	15.71	15.73	17.5
5M	QPSK	12	0	15.78	15.81	15.80	17.5
5M	QPSK	12	6	15.84	15.72	15.77	17.5
5M	QPSK	12	13	15.92	15.90	15.88	17.5
5M	QPSK	25	0	15.80	15.79	15.66	17.5
5M	16QAM	1	0	15.75	15.58	15.61	17.5
5M	16QAM	1	12	15.77	15.62	15.66	17.5
5M	16QAM	1	24	15.70	15.88	15.83	17.5
5M	16QAM	12	0	15.64	15.62	15.73	17.5
5M	16QAM	12	6	15.62	15.55	15.79	17.5
5M	16QAM	12	13	15.64	15.76	15.79	17.5
5M	16QAM	25	0	15.74	15.80	15.63	17.5
5M	64QAM	1	0	15.86	15.72	15.79	17.5
5M	64QAM	1	12	15.89	15.70	15.54	17.5
5M	64QAM	1	24	15.60	15.67	15.77	17.5
5M	64QAM	12	0	15.70	15.58	15.68	17.5
5M	64QAM	12	6	15.71	15.78	15.78	17.5
5M	64QAM	12	13	15.90	15.60	15.78	17.5
5M	64QAM	25	0	15.69	15.56	15.53	17.5

LTE Band 38

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
BW	Modulation	Channel		37850	38000	38150	Max. Tune-up (dBm)
		Frequency (MHz)		2580	2595	2610	
20M	QPSK	1	0	18.35	18.34	18.25	20
20M	QPSK	1	50	18.40	**18.53**	18.36	20
20M	QPSK	1	99	18.34	18.30	18.28	20
20M	QPSK	50	0	18.15	18.36	18.27	20
20M	QPSK	50	25	18.38	18.42	18.34	20
20M	QPSK	50	50	18.31	18.32	18.29	20
20M	QPSK	100	0	18.32	18.39	18.22	20
20M	16QAM	1	0	18.18	18.17	18.28	20
20M	16QAM	1	50	18.28	18.40	18.17	20
20M	16QAM	1	99	18.22	18.36	18.15	20
20M	16QAM	50	0	18.29	18.26	18.40	20
20M	16QAM	50	25	18.34	18.17	18.37	20
20M	16QAM	50	50	18.39	18.46	18.22	20
20M	16QAM	100	0	18.38	18.37	18.29	20
20M	64QAM	1	0	18.28	18.43	18.21	20
20M	64QAM	1	50	18.25	18.22	18.30	20
20M	64QAM	1	99	18.16	18.19	18.37	20
20M	64QAM	50	0	18.26	18.42	18.35	20
20M	64QAM	50	25	18.37	18.32	18.26	20
20M	64QAM	50	50	18.22	18.23	18.43	20
20M	64QAM	100	0	18.30	18.27	18.30	20
BW	Modulation	Channel		37825	38000	38175	Max. Tune-up (dBm)
		Frequency (MHz)		2577.5	2595	2612.5	
15M	QPSK	1	0	18.26	18.20	18.18	20
15M	QPSK	1	37	18.27	18.44	18.34	20
15M	QPSK	1	74	18.28	18.18	18.22	20
15M	QPSK	36	0	18.11	18.30	18.21	20
15M	QPSK	36	19	18.32	18.32	18.22	20
15M	QPSK	36	39	18.26	18.26	18.19	20
15M	QPSK	75	0	18.27	18.31	18.09	20
15M	16QAM	1	0	18.15	18.15	18.16	20
15M	16QAM	1	37	18.23	18.25	18.11	20
15M	16QAM	1	74	18.11	18.32	18.05	20
15M	16QAM	36	0	18.15	18.25	18.35	20
15M	16QAM	36	19	18.32	18.08	18.25	20
15M	16QAM	36	39	18.35	18.43	18.20	20
15M	16QAM	75	0	18.29	18.36	18.21	20
15M	64QAM	1	0	18.14	18.28	18.19	20
15M	64QAM	1	37	18.11	18.17	18.25	20
15M	64QAM	1	74	18.12	18.11	18.32	20
15M	64QAM	36	0	18.13	18.27	18.21	20
15M	64QAM	36	19	18.36	18.24	18.25	20
15M	64QAM	36	39	18.12	18.17	18.34	20
15M	64QAM	75	0	18.25	18.24	18.23	20
BW	Modulation	Channel		37800	38000	38200	Max. Tune-up (dBm)
		Frequency (MHz)		2575	2595	2615	
10M	QPSK	1	0	18.29	18.33	18.14	20
10M	QPSK	1	24	18.30	18.40	18.22	20
10M	QPSK	1	49	18.33	18.20	18.16	20
10M	QPSK	25	0	18.11	18.26	18.16	20
10M	QPSK	25	12	18.32	18.36	18.21	20
10M	QPSK	25	25	18.16	18.18	18.23	20
10M	QPSK	50	0	18.23	18.38	18.12	20
10M	16QAM	1	0	18.16	18.03	18.17	20
10M	16QAM	1	24	18.24	18.29	18.08	20
10M	16QAM	1	49	18.09	18.35	18.04	20
10M	16QAM	25	0	18.27	18.22	18.29	20
10M	16QAM	25	12	18.25	18.16	18.26	20
10M	16QAM	25	25	18.29	18.43	18.08	20
10M	16QAM	50	0	18.32	18.24	18.28	20
10M	64QAM	1	0	18.16	18.32	18.06	20
10M	64QAM	1	24	18.18	18.16	18.15	20
10M	64QAM	1	49	18.15	18.11	18.29	20
10M	64QAM	25	0	18.19	18.38	18.25	20
10M	64QAM	25	12	18.31	18.29	18.25	20
10M	64QAM	25	25	18.17	18.11	18.34	20
10M	64QAM	50	0	18.20	18.14	18.18	20
BW	Modulation	Channel		37775	38000	38225	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5	
5M	QPSK	1	0	18.22	18.26	18.10	20
5M	QPSK	1	12	18.25	18.39	18.27	20
5M	QPSK	1	24	18.21	18.22	18.26	20
5M	QPSK	12	0	18.14	18.24	18.16	20
5M	QPSK	12	6	18.31	18.35	18.28	20
5M	QPSK	12	13	18.27	18.31	18.27	20
5M	QPSK	25	0	18.23	18.35	18.07	20
5M	16QAM	1	0	18.12	18.15	18.13	20
5M	16QAM	1	12	18.26	18.32	18.15	20
5M	16QAM	1	24	18.12	18.34	18.02	20
5M	16QAM	12	0	18.16	18.16	18.27	20
5M	16QAM	12	6	18.29	18.12	18.35	20
5M	16QAM	12	13	18.32	18.44	18.09	20
5M	16QAM	25	0	18.29	18.31	18.15	20
5M	64QAM	1	0	18.14	18.31	18.09	20
5M	64QAM	1	12	18.24	18.12	18.17	20
5M	64QAM	1	24	18.09	18.14	18.22	20
5M	64QAM	12	0	18.24	18.41	18.27	20
5M	64QAM	12	6	18.33	18.17	18.25	20
5M	64QAM	12	13	18.14	18.20	18.40	20
5M	64QAM	25	0	18.15	18.21	18.18	20

LTE Band 41 (2496 ~ 2690MHz)

BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	Max. Tune-up (dBm)
BW	Modulation	Channel		39750	40185	40620	41055	41490	Max. Tune-up (dBm)
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680	
20M	QPSK	1	0	18.12	17.93	18.18	17.91	17.84	19.5
20M	QPSK	1	50	**18.34**	18.30	18.24	18.08	18.12	19.5
20M	QPSK	1	99	17.98	17.91	17.87	17.96	17.86	19.5
20M	QPSK	50	0	17.78	17.85	18.06	17.93	17.91	19.5
20M	QPSK	50	25	18.20	17.95	18.13	17.98	17.95	19.5
20M	QPSK	50	50	18.08	17.80	17.99	17.82	17.83	19.5
20M	QPSK	100	0	18.12	18.03	17.94	18.10	18.04	19.5
20M	16QAM	1	0	18.10	17.92	18.03	17.74	17.93	19.5
20M	16QAM	1	50	18.18	18.12	18.07	18.09	18.31	19.5
20M	16QAM	1	99	18.05	17.81	18.18	17.84	18.13	19.5
20M	16QAM	50	0	17.97	18.06	18.00	18.03	17.89	19.5
20M	16QAM	50	25	18.11	18.12	17.88	17.90	17.92	19.5
20M	16QAM	50	50	17.97	17.87	18.19	17.82	17.76	19.5
20M	16QAM	100	0	18.15	17.90	17.85	18.03	17.79	19.5
20M	64QAM	1	0	17.95	18.04	17.86	18.07	17.77	19.5
20M	64QAM	1	50	18.09	17.84	18.09	17.90	17.90	19.5
20M	64QAM	1	99	17.81	17.73	17.95	17.78	17.91	19.5
20M	64QAM	50	0	18.01	17.85	17.90	17.97	17.90	19.5
20M	64QAM	50	25	17.98	17.86	18.16	17.96	18.01	19.5
20M	64QAM	50	50	18.16	17.72	17.93	17.86	18.01	19.5
20M	64QAM	100	0	18.05	17.66	18.07	18.03	17.82	19.5
BW	Modulation	Channel		39725	40173	40620	41068	41515	Max. Tune-up (dBm)
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5	
15M	QPSK	1	0	18.07	17.80	18.17	17.88	17.78	19.5
15M	QPSK	1	37	18.25	18.27	18.19	17.93	18.09	19.5
15M	QPSK	1	74	17.92	17.83	17.86	17.86	17.81	19.5
15M	QPSK	36	0	17.66	17.78	18.03	17.87	17.78	19.5
15M	QPSK	36	19	18.08	17.80	18.09	17.83	17.85	19.5
15M	QPSK	36	39	18.00	17.72	17.85	17.80	17.76	19.5
15M	QPSK	75	0	18.01	17.88	17.80	18.02	17.91	19.5
15M	16QAM	1	0	18.02	17.89	18.01	17.63	17.89	19.5
15M	16QAM	1	37	18.10	17.98	18.06	18.02	18.26	19.5
15M	16QAM	1	74	17.90	17.69	18.04	17.77	18.04	19.5
15M	16QAM	36	0	17.91	18.02	17.89	17.91	17.79	19.5
15M	16QAM	36	19	17.99	18.06	17.81	17.89	17.78	19.5
15M	16QAM	36	39	17.84	17.83	18.07	17.69	17.67	19.5
15M	16QAM	75	0	18.10	17.80	17.83	17.91	17.77	19.5
15M	64QAM	1	0	17.84	17.93	17.73	17.99	17.75	19.5
15M	64QAM	1	37	18.08	17.79	18.06	17.83	17.83	19.5
15M	64QAM	1	74	17.75	17.62	17.80	17.69	17.86	19.5
15M	64QAM	36	0	17.95	17.75	17.89	17.86	17.85	19.5
15M	64QAM	36	19	17.83	17.80	18.09	17.83	17.94	19.5
15M	64QAM	36	39	18.12	17.63	17.81	17.72	17.88	19.5
15M	64QAM	75	0	18.04	17.65	17.97	18.02	17.73	19.5
BW	Modulation	Channel		39700	40160	40620	41080	41540	Max. Tune-up (dBm)
		Frequency (MHz)		2501	2547	2593	2639	2685	
10M	QPSK	1	0	18.06	17.86	18.14	17.85	17.70	19.5
10M	QPSK	1	24	18.23	18.17	18.21	18.01	17.98	19.5
10M	QPSK	1	49	17.90	17.81	17.80	17.85	17.78	19.5
10M	QPSK	25	0	17.65	17.72	18.00	17.78	17.88	19.5
10M	QPSK	25	12	18.14	17.81	18.04	17.86	17.92	19.5
10M	QPSK	25	25	18.04	17.68	17.91	17.81	17.75	19.5
10M	QPSK	50	0	18.09	17.98	17.92	17.97	17.89	19.5
10M	16QAM	1	0	18.04	17.91	17.92	17.71	17.90	19.5
10M	16QAM	1	24	18.17	18.06	18.00	18.04	18.23	19.5
10M	16QAM	1	49	18.02	17.71	18.16	17.83	18.00	19.5
10M	16QAM	25	0	17.95	17.93	17.87	17.90	17.78	19.5
10M	16QAM	25	12	18.09	18.09	17.82	17.81	17.90	19.5
10M	16QAM	25	25	17.91	17.84	18.12	17.80	17.73	19.5
10M	16QAM	50	0	18.12	17.84	17.78	18.02	17.69	19.5
10M	64QAM	1	0	17.94	17.92	17.81	18.00	17.73	19.5
10M	64QAM	1	24	18.05	17.78	18.03	17.88	17.87	19.5
10M	64QAM	1	49	17.69	17.63	17.92	17.67	17.87	19.5
10M	64QAM	25	0	17.96	17.74	17.79	17.95	17.79	19.5
10M	64QAM	25	12	17.87	17.84	18.08	17.92	17.90	19.5
10M	64QAM	25	25	18.12	17.58	17.87	17.81	17.89	19.5
10M	64QAM	50	0	17.95	17.60	18.00	17.89	17.81	19.5
BW	Modulation	Channel		39675	40148	40620	41093	41565	Max. Tune-up (dBm)
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5	
5M	QPSK	1	0	18.08	17.82	18.11	17.76	17.73	19.5
5M	QPSK	1	12	18.33	18.22	18.23	17.98	18.11	19.5
5M	QPSK	1	24	17.85	17.81	17.82	17.86	17.85	19.5
5M	QPSK	12	0	17.70	17.71	17.95	17.84	17.83	19.5
5M	QPSK	12	6	18.13	17.85	17.98	17.94	17.84	19.5
5M	QPSK	12	13	18.07	17.77	17.85	17.69	17.81	19.5
5M	QPSK	25	0	17.99	17.97	17.79	17.98	17.92	19.5
5M	16QAM	1	0	17.97	17.82	17.91	17.67	17.91	19.5
5M	16QAM	1	12	18.17	18.11	17.98	18.02	18.27	19.5
5M	16QAM	1	24	17.94	17.71	18.07	17.69	18.10	19.5
5M	16QAM	12	0	17.96	17.97	17.96	17.90	17.86	19.5
5M	16QAM	12	6	18.01	18.08	17.73	17.88	17.89	19.5
5M	16QAM	12	13	17.91	17.73	18.12	17.75	17.61	19.5
5M	16QAM	25	0	18.07	17.89	17.71	17.98	17.76	19.5
5M	64QAM	1	0	17.92	17.93	17.78	17.92	17.71	19.5
5M	64QAM	1	12	18.07	17.73	18.06	17.78	17.85	19.5
5M	64QAM	1	24	17.78	17.63	17.90	17.77	17.82	19.5
5M	64QAM	12	0	17.88	17.77	17.75	17.88	17.85	19.5
5M	64QAM	12	6	17.88	17.77	18.13	17.89	17.89	19.5
5M	64QAM	12	13	18.10	17.60	17.87	17.79	17.91	19.5
5M	64QAM	25	0	18.02	17.59	18.01	17.88	17.80	19.5

LTE Band 66

BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
BW	Modulation	Channel		132072	132322	132572	Max. Tune-up (dBm)
		Frequency (MHz)		1720	1745	1770	
20M	QPSK	1	0	17.95	17.97	17.83	19.5
20M	QPSK	1	50	18.14	**18.18**	18.09	19.5
20M	QPSK	1	99	17.79	17.73	17.81	19.5
20M	QPSK	50	0	17.84	17.79	17.92	19.5
20M	QPSK	50	25	17.91	17.96	17.93	19.5
20M	QPSK	50	50	17.87	17.87	17.78	19.5
20M	QPSK	100	0	17.79	17.99	17.90	19.5
20M	16QAM	1	0	17.84	17.87	17.70	19.5
20M	16QAM	1	50	17.78	17.90	17.88	19.5
20M	16QAM	1	99	17.83	17.75	17.91	19.5
20M	16QAM	50	0	17.72	17.96	17.82	19.5
20M	16QAM	50	25	17.78	17.92	17.98	19.5
20M	16QAM	50	50	17.81	17.71	17.82	19.5
20M	16QAM	100	0	17.76	17.77	17.80	19.5
20M	64QAM	1	0	17.78	17.75	17.81	19.5
20M	64QAM	1	50	17.93	17.83	17.75	19.5
20M	64QAM	1	99	17.79	17.78	17.74	19.5
20M	64QAM	50	0	17.98	17.91	17.73	19.5
20M	64QAM	50	25	17.77	17.90	17.90	19.5
20M	64QAM	50	50	17.98	18.00	17.63	19.5
20M	64QAM	100	0	17.65	17.78	17.95	19.5
BW	Modulation	Channel		132047	132322	132597	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1745	1772.5	
15M	QPSK	1	0	17.92	17.88	17.77	19.5
15M	QPSK	1	37	18.09	18.07	17.95	19.5
15M	QPSK	1	74	17.74	17.71	17.68	19.5
15M	QPSK	36	0	17.81	17.69	17.83	19.5
15M	QPSK	36	19	17.90	17.85	17.85	19.5
15M	QPSK	36	39	17.85	17.74	17.72	19.5
15M	QPSK	75	0	17.76	17.90	17.80	19.5
15M	16QAM	1	0	17.77	17.78	17.62	19.5
15M	16QAM	1	37	17.74	17.78	17.77	19.5
15M	16QAM	1	74	17.74	17.60	17.76	19.5
15M	16QAM	36	0	17.63	17.94	17.80	19.5
15M	16QAM	36	19	17.68	17.77	17.84	19.5
15M	16QAM	36	39	17.80	17.60	17.77	19.5
15M	16QAM	75	0	17.63	17.74	17.72	19.5
15M	64QAM	1	0	17.77	17.60	17.70	19.5
15M	64QAM	1	37	17.91	17.70	17.74	19.5
15M	64QAM	1	74	17.73	17.76	17.69	19.5
15M	64QAM	36	0	17.97	17.90	17.58	19.5
15M	64QAM	36	19	17.69	17.83	17.87	19.5
15M	64QAM	36	39	17.88	17.93	17.59	19.5
15M	64QAM	75	0	17.53	17.66	17.84	19.5
BW	Modulation	Channel		132022	132322	132622	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1745	1775	
10M	QPSK	1	0	17.88	17.88	17.81	19.5
10M	QPSK	1	24	17.99	18.05	18.06	19.5
10M	QPSK	1	49	17.77	17.69	17.70	19.5
10M	QPSK	25	0	17.76	17.74	17.80	19.5
10M	QPSK	25	12	17.84	17.81	17.87	19.5
10M	QPSK	25	25	17.85	17.81	17.72	19.5
10M	QPSK	50	0	17.78	17.94	17.82	19.5
10M	16QAM	1	0	17.80	17.77	17.67	19.5
10M	16QAM	1	24	17.65	17.79	17.76	19.5
10M	16QAM	1	49	17.69	17.71	17.77	19.5
10M	16QAM	25	0	17.68	17.85	17.78	19.5
10M	16QAM	25	12	17.69	17.88	17.90	19.5
10M	16QAM	25	25	17.78	17.68	17.68	19.5
10M	16QAM	50	0	17.69	17.62	17.76	19.5
10M	64QAM	1	0	17.73	17.64	17.69	19.5
10M	64QAM	1	24	17.90	17.72	17.61	19.5
10M	64QAM	1	49	17.76	17.64	17.59	19.5
10M	64QAM	25	0	17.95	17.86	17.66	19.5
10M	64QAM	25	12	17.76	17.87	17.82	19.5
10M	64QAM	25	25	17.97	17.91	17.56	19.5
10M	64QAM	50	0	17.56	17.73	17.94	19.5
BW	Modulation	Channel		131997	132322	132647	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1745	1777.5	
5M	QPSK	1	0	17.81	17.96	17.70	19.5
5M	QPSK	1	12	18.08	18.14	18.05	19.5
5M	QPSK	1	24	17.73	17.67	17.68	19.5
5M	QPSK	12	0	17.75	17.71	17.91	19.5
5M	QPSK	12	6	17.78	17.85	17.87	19.5
5M	QPSK	12	13	17.85	17.79	17.71	19.5
5M	QPSK	25	0	17.70	17.89	17.85	19.5
5M	16QAM	1	0	17.70	17.75	17.58	19.5
5M	16QAM	1	12	17.72	17.84	17.73	19.5
5M	16QAM	1	24	17.80	17.73	17.88	19.5
5M	16QAM	12	0	17.63	17.92	17.76	19.5
5M	16QAM	12	6	17.77	17.82	17.89	19.5
5M	16QAM	12	13	17.71	17.69	17.74	19.5
5M	16QAM	25	0	17.69	17.75	17.77	19.5
5M	64QAM	1	0	17.76	17.66	17.72	19.5
5M	64QAM	1	12	17.81	17.75	17.74	19.5
5M	64QAM	1	24	17.77	17.71	17.68	19.5
5M	64QAM	12	0	17.88	17.81	17.61	19.5
5M	64QAM	12	6	17.65	17.88	17.83	19.5
5M	64QAM	12	13	17.93	17.90	17.57	19.5
5M	64QAM	25	0	17.59	17.72	17.82	19.5
BW	Modulation	Channel		131987	132322	132657	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1745	1778.5	
3M	QPSK	1	0	17.87	17.90	17.80	19.5
3M	QPSK	1	7	18.09	18.12	18.03	19.5
3M	QPSK	1	14	17.68	17.64	17.68	19.5
3M	QPSK	8	0	17.80	17.72	17.80	19.5
3M	QPSK	8	3	17.88	17.84	17.85	19.5
3M	QPSK	8	7	17.79	17.80	17.67	19.5
3M	QPSK	15	0	17.65	17.86	17.75	19.5
3M	16QAM	1	0	17.71	17.75	17.69	19.5
3M	16QAM	1	7	17.76	17.85	17.76	19.5
3M	16QAM	1	14	17.74	17.71	17.90	19.5
3M	16QAM	8	0	17.69	17.91	17.79	19.5
3M	16QAM	8	3	17.73	17.86	17.96	19.5
3M	16QAM	8	7	17.73	17.63	17.79	19.5
3M	16QAM	15	0	17.74	17.62	17.71	19.5
3M	64QAM	1	0	17.73	17.63	17.67	19.5
3M	64QAM	1	7	17.81	17.73	17.74	19.5
3M	64QAM	1	14	17.68	17.71	17.65	19.5
3M	64QAM	8	0	17.91	17.79	17.68	19.5
3M	64QAM	8	3	17.75	17.75	17.82	19.5
3M	64QAM	8	7	17.92	17.87	17.56	19.5
3M	64QAM	15	0	17.55	17.75	17.93	19.5
BW	Modulation	Channel		131979	132322	132665	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1745	1779.3	
1.4M	QPSK	1	0	17.80	17.85	17.78	19.5
1.4M	QPSK	1	2	18.09	18.15	17.94	19.5
1.4M	QPSK	1	5	17.64	17.69	17.80	19.5
1.4M	QPSK	3	0	17.80	17.64	17.77	19.5
1.4M	QPSK	3	1	17.86	17.85	17.90	19.5
1.4M	QPSK	3	3	17.72	17.79	17.72	19.5
1.4M	QPSK	6	0	17.68	17.93	17.82	19.5
1.4M	16QAM	1	0	17.73	17.73	17.68	19.5
1.4M	16QAM	1	2	17.73	17.84	17.86	19.5
1.4M	16QAM	1	5	17.74	17.69	17.90	19.5
1.4M	16QAM	3	0	17.62	17.81	17.75	19.5
1.4M	16QAM	3	1	17.77	17.90	17.89	19.5
1.4M	16QAM	3	3	17.80	17.69	17.78	19.5
1.4M	16QAM	6	0	17.67	17.64	17.68	19.5
1.4M	64QAM	1	0	17.70	17.65	17.73	19.5
1.4M	64QAM	1	2	17.88	17.70	17.67	19.5
1.4M	64QAM	1	5	17.71	17.63	17.70	19.5
1.4M	64QAM	3	0	17.87	17.79	17.60	19.5
1.4M	64QAM	3	1	17.64	17.79	17.85	19.5
1.4M	64QAM	3	3	17.97	17.98	17.53	19.5
1.4M	64QAM	6	0	17.63	17.64	17.80	19.5

default Power

2.4GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
2.4GHz WLAN	802.11b 1Mbps	1	2412	15.97	17.50
		6	2437	16.14	17.50
		11	2462	**16.23**	17.50
	802.11g 6Mbps	1	2412	14.91	16.50
		6	2437	15.07	16.50
		11	2462	15.21	16.50
	802.11n-HT20 MCS0	1	2412	13.90	15.50
		6	2437	14.17	15.50
		11	2462	14.04	15.50

5GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180	12.83	14.50
		40	5200	12.93	14.50
		44	5220	12.85	14.50
		48	5240	12.95	14.50
	802.11n-HT20 MCS0	36	5180	13.23	14.50
		40	5200	13.33	14.50
		44	5220	13.21	14.50
		48	5240	13.25	14.50
	802.11n-HT40 MCS0	38	5190	13.12	14.50
		46	5230	13.12	14.50
	802.11ac-VHT20 MCS0	36	5180	13.06	14.50
		40	5200	13.00	14.50
		44	5220	13.03	14.50
		48	5240	13.07	14.50
	802.11ac-VHT40 MCS0	38	5190	13.06	14.50
		46	5230	13.15	14.50
	802.11ac-VHT80 MCS0	42	5210	**13.54**	14.50

5GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.3GHz WLAN	802.11a 6Mbps	52	5260	13.03	14.50
		56	5280	13.01	14.50
		60	5300	13.02	14.50
		64	5320	13.18	14.50
	802.11n-HT20 MCS0	52	5260	13.34	14.50
		56	5280	13.25	14.50
		60	5300	13.21	14.50
		64	5320	**13.36**	14.50
	802.11n-HT40 MCS0	54	5270	13.09	14.50
		62	5310	13.06	14.50
	802.11ac-VHT20 MCS0	52	5260	13.01	14.50
		56	5280	13.03	14.50
		60	5300	13.04	14.50
		64	5320	13.17	14.50
	802.11ac-VHT40 MCS0	54	5270	13.13	14.50
		62	5310	13.11	14.50
	802.11ac-VHT80 MCS0	58	5290	13.28	14.50

5GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.5GHz WLAN	802.11a 6Mbps	100	5500	13.19	14.50
		116	5580	13.00	14.50
		124	5620	13.04	14.50
		132	5660	13.07	14.50
		140	5700	13.13	14.50
		144	5720	13.05	14.50
	802.11n-HT20 MCS0	100	5500	13.45	14.50
		116	5580	13.42	14.50
		124	5620	13.38	14.50
		132	5660	13.33	14.50
		140	5700	**13.49**	14.50
		144	5720	13.39	14.50
	802.11n-HT40 MCS0	102	5510	13.19	14.50
		110	5550	13.31	14.50
		126	5630	13.17	14.50
		134	5670	13.26	14.50
		142	5710	13.19	14.50
	802.11ac-VHT20 MCS0	100	5500	13.27	14.50
		116	5580	13.24	14.50
		124	5620	13.22	14.50
		132	5660	13.17	14.50
		140	5700	13.13	14.50
		144	5720	13.15	14.50
	802.11ac-VHT40 MCS0	102	5510	13.23	14.50
		110	5550	13.34	14.50
		126	5630	13.27	14.50
		134	5670	13.31	14.50
		142	5710	13.25	14.50
	802.11ac-VHT80 MCS0	106	5530	13.13	14.50
		122	5610	13.28	14.50
		138	5690	13.16	14.50

5GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.8GHz WLAN	802.11a 6Mbps	149	5745	12.96	14.50
		157	5785	12.91	14.50
		165	5825	12.87	14.50
	802.11n-HT20 MCS0	149	5745	13.02	14.50
		157	5785	13.14	14.50
		165	5825	12.95	14.50
	802.11n-HT40 MCS0	151	5755	13.22	14.50
		159	5795	13.21	14.50
	802.11ac-VHT20 MCS0	149	5745	12.84	14.50
		157	5785	12.96	14.50
		165	5825	12.77	14.50
	802.11ac-VHT40 MCS0	151	5755	13.18	14.50
		159	5795	13.24	14.50
	802.11ac-VHT80 MCS0	155	5775	**13.70**	14.50

BT	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
BLE	1M	0	2402	0.37	2.00
		19	2440	0.94	2.00
		39	2480	1.40	3.00
	2M	1	2404	0.69	2.00
		19	2440	1.06	3.00
		38	2478	1.40	3.00
	S2	0	2402	0.48	2.00
		19	2440	0.95	2.00
		39	2480	1.44	3.00
	S8	0	2402	0.59	2.00
		19	2440	0.85	2.00
		39	2480	1.56	3.00
BR/EDR	GFSK	0	2402	8.55	10.00
		39	2441	6.39	8.00
		78	2480	**9.98**	11.00
	DQPSK	0	2402	6.55	8.00
		39	2441	3.01	5.00
		78	2480	8.14	10.00
	8DPSK	0	2402	6.53	8.00
		39	2441	2.91	4.00
		78	2480	8.14	10.00

Receiver on (DSI-1)

2.4GHz WLAN — **Ant2**

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
2.4GHz WLAN	802.11b 1Mbps	1	2412	12.86	14.50
		6	2437	13.27	14.50
		11	2462	**13.34**	14.50
	802.11g 6Mbps	1	2412		13.50
		6	2437		13.50
		11	2462		13.50
	802.11n-HT20 MCS0	1	2412		12.50
		6	2437		12.50
		11	2462		12.50

5GHz WLAN — **Ant2**

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180		9.50
		40	5200		9.50
		44	5220		9.50
		48	5240		9.50
	802.11n-HT20 MCS0	36	5180		9.50
		40	5200		9.50
		44	5220		9.50
		48	5240		9.50
	802.11n-HT40 MCS0	38	5190		9.50
		46	5230		9.50
	802.11ac-VHT20 MCS0	36	5180		9.50
		40	5200		9.50
		44	5220		9.50
		48	5240		9.50
	802.11ac-VHT40 MCS0	38	5190		9.50
		46	5230		9.50
	802.11ac-VHT80 MCS0	42	5210	**8.63**	9.50

5GHz WLAN — **Ant2**

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.3GHz WLAN	802.11a 6Mbps	52	5260		9.50
		56	5280		9.50
		60	5300		9.50
		64	5320		9.50
	802.11n-HT20 MCS0	52	5260	8.29	9.50
		56	5280	8.33	9.50
		60	5300	8.27	9.50
		64	5320	**8.46**	9.50
	802.11n-HT40 MCS0	54	5270		9.50
		62	5310		9.50
	802.11ac-VHT20 MCS0	52	5260		9.50
		56	5280		9.50
		60	5300		9.50
		64	5320		9.50
	802.11ac-VHT40 MCS0	54	5270		9.50
		62	5310		9.50
	802.11ac-VHT80 MCS0	58	5290		9.50

5GHz WLAN — **Ant2**

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.5GHz WLAN	802.11a 6Mbps	100	5500		9.50
		116	5580		9.50
		124	5620		9.50
		132	5660		9.50
		140	5700		9.50
		144	5720		9.50
	802.11n-HT20 MCS0	100	5500	8.41	9.50
		116	5580	8.31	9.50
		124	5620	8.44	9.50
		132	5660	8.29	9.50
		140	5700	**8.56**	9.50
		144	5720	8.42	9.50
	802.11n-HT40 MCS0	102	5510		9.50
		110	5550		9.50
		126	5630		9.50
		134	5670		9.50
		142	5710		9.50
	802.11ac-VHT20 MCS0	100	5500		9.50
		116	5580		9.50
		124	5620		9.50
		132	5660		9.50
		140	5700		9.50
		144	5720		9.50
	802.11ac-VHT40 MCS0	102	5510		9.50
		110	5550		9.50
		126	5630		9.50
		134	5670		9.50
		142	5710		9.50
	802.11ac-VHT80 MCS0	106	5530		9.50
		122	5610		9.50
		138	5690		9.50

5GHz WLAN — **Ant2**

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.8GHz WLAN	802.11a 6Mbps	149	5745		9.50
		157	5785		9.50
		165	5825		9.50
	802.11n-HT20 MCS0	149	5745		9.50
		157	5785		9.50
		165	5825		9.50
	802.11n-HT40 MCS0	151	5755		9.50
		159	5795		9.50
	802.11ac-VHT20 MCS0	149	5745		9.50
		157	5785		9.50
		165	5825		9.50
	802.11ac-VHT40 MCS0	151	5755		9.50
		159	5795		9.50
	802.11ac-VHT80 MCS0	155	5775	**8.65**	9.50

Ant2

BT	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
BLE	1M	0	2402	0.37	2.00
		19	2440	0.94	2.00
		39	2480	1.40	3.00
	2M	1	2404	0.69	2.00
		19	2440	1.06	3.00
		38	2478	1.40	3.00
	S2	0	2402	0.48	2.00
		19	2440	0.95	2.00
		39	2480	1.44	3.00
	S8	0	2402	0.59	2.00
		19	2440	0.85	2.00
		39	2480	1.56	3.00
BR/EDR	GFSK	0	2402	8.55	10.00
		39	2441	6.39	8.00
		78	2480	**9.98**	11.00
	DQPSK	0	2402	6.55	8.00
		39	2441	3.01	5.00
		78	2480	8.14	10.00
	8DPSK	0	2402	6.53	8.00
		39	2441	2.91	4.00
		78	2480	8.14	10.00

Reduce Power (DSI-2)

2.4GHz WLAN — **Ant2**

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
2.4GHz WLAN	802.11b 1Mbps	1	2412	12.86	14.50
		6	2437	13.27	14.50
		11	2462	**13.34**	14.50
	802.11g 6Mbps	1	2412		13.50
		6	2437		13.50
		11	2462		13.50
	802.11n-HT20 MCS0	1	2412		12.50
		6	2437		12.50
		11	2462		12.50

5GHz WLAN — **Ant2**

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180		10.50
		40	5200		10.50
		44	5220		10.50
		48	5240		10.50
	802.11n-HT20 MCS0	36	5180		10.50
		40	5200		10.50
		44	5220		10.50
		48	5240		10.50
	802.11n-HT40 MCS0	38	5190		10.50
		46	5230		10.50
	802.11ac-VHT20 MCS0	36	5180		10.50
		40	5200		10.50
		44	5220		10.50
		48	5240		10.50
	802.11ac-VHT40 MCS0	38	5190		10.50
		46	5230		10.50
	802.11ac-VHT80 MCS0	42	5210	**9.49**	10.50

5GHz WLAN — **Ant2**

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.3GHz WLAN	802.11a 6Mbps	52	5260		10.50
		56	5280		10.50
		60	5300		10.50
		64	5320		10.50
	802.11n-HT20 MCS0	52	5260	9.32	10.50
		56	5280	9.25	10.50
		60	5300	9.35	10.50
		64	5320	**9.41**	10.50
	802.11n-HT40 MCS0	54	5270		10.50
		62	5310		10.50
	802.11ac-VHT20 MCS0	52	5260		10.50
		56	5280		10.50
		60	5300		10.50
		64	5320		10.50
	802.11ac-VHT40 MCS0	54	5270		10.50
		62	5310		10.50
	802.11ac-VHT80 MCS0	58	5290		10.50

5GHz WLAN — **Ant2**

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.5GHz WLAN	802.11a 6Mbps	100	5500		10.50
		116	5580		10.50
		124	5620		10.50
		132	5660		10.50
		140	5700		10.50
		144	5720		10.50
	802.11n-HT20 MCS0	100	5500	9.33	10.50
		116	5580	9.34	10.50
		124	5620	9.29	10.50
		132	5660	9.31	10.50
		140	5700	**9.38**	10.50
		144	5720	9.27	10.50
	802.11n-HT40 MCS0	102	5510		10.50
		110	5550		10.50
		126	5630		10.50
		134	5670		10.50
		142	5710		10.50
	802.11ac-VHT20 MCS0	100	5500		10.50
		116	5580		10.50
		124	5620		10.50
		132	5660		10.50
		140	5700		10.50
		144	5720		10.50
	802.11ac-VHT40 MCS0	102	5510		10.50
		110	5550		10.50
		126	5630		10.50
		134	5670		10.50
		142	5710		10.50
	802.11ac-VHT80 MCS0	106	5530		10.50
		122	5610		10.50
		138	5690		10.50

5GHz WLAN — **Ant2**

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.8GHz WLAN	802.11a 6Mbps	149	5745		10.50
		157	5785		10.50
		165	5825		10.50
	802.11n-HT20 MCS0	149	5745		10.50
		157	5785		10.50
		165	5825		10.50
	802.11n-HT40 MCS0	151	5755		10.50
		159	5795		10.50
	802.11ac-VHT20 MCS0	149	5745		10.50
		157	5785		10.50
		165	5825		10.50
	802.11ac-VHT40 MCS0	151	5755		10.50
		159	5795		10.50
	802.11ac-VHT80 MCS0	155	5775	**9.77**	10.50

Ant2

BT	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
BLE	1M	0	2402	0.37	2.00
		19	2440	0.94	2.00
		39	2480	1.40	3.00
	2M	1	2404	0.69	2.00
		19	2440	1.06	3.00
		38	2478	1.40	3.00
	S2	0	2402	0.48	2.00
		19	2440	0.95	2.00
		39	2480	1.44	3.00
	S8	0	2402	0.59	2.00
		19	2440	0.85	2.00
		39	2480	1.56	3.00
BR/EDR	GFSK	0	2402	8.55	10.00
		39	2441	6.39	8.00
		78	2480	**9.98**	11.00
	DQPSK	0	2402	6.55	8.00
		39	2441	3.01	5.00
		78	2480	8.14	10.00
	8DPSK	0	2402	6.53	8.00
		39	2441	2.91	4.00
		78	2480	8.14	10.00