



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:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for 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
- 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
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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



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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	2600 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.0 ± 6 %	1.95 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.9 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	55.8 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm³ (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	24.6 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	51.1 Ω - 5.12j Ω
Return Loss	- 25.7dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.058 ns
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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: 09.16.2021

Test Laboratory: CCTL, Beijing, China

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1110

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.949$ S/m; $\epsilon_r = 39.04$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(7.1, 7.1, 7.1) @ 2600 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 (7483)

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

Reference Value = 105.3 V/m; Power Drift = 0.01 dB

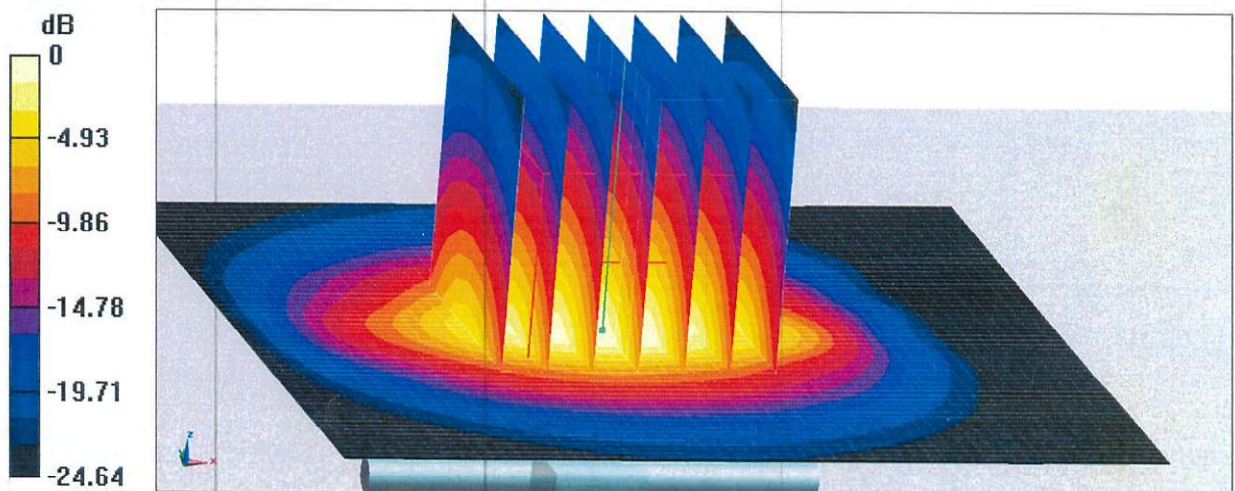
Peak SAR (extrapolated) = 30.6 W/kg

SAR(1 g) = 13.9 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 = 45.2%

Maximum value of SAR (measured) = 24.1 W/kg



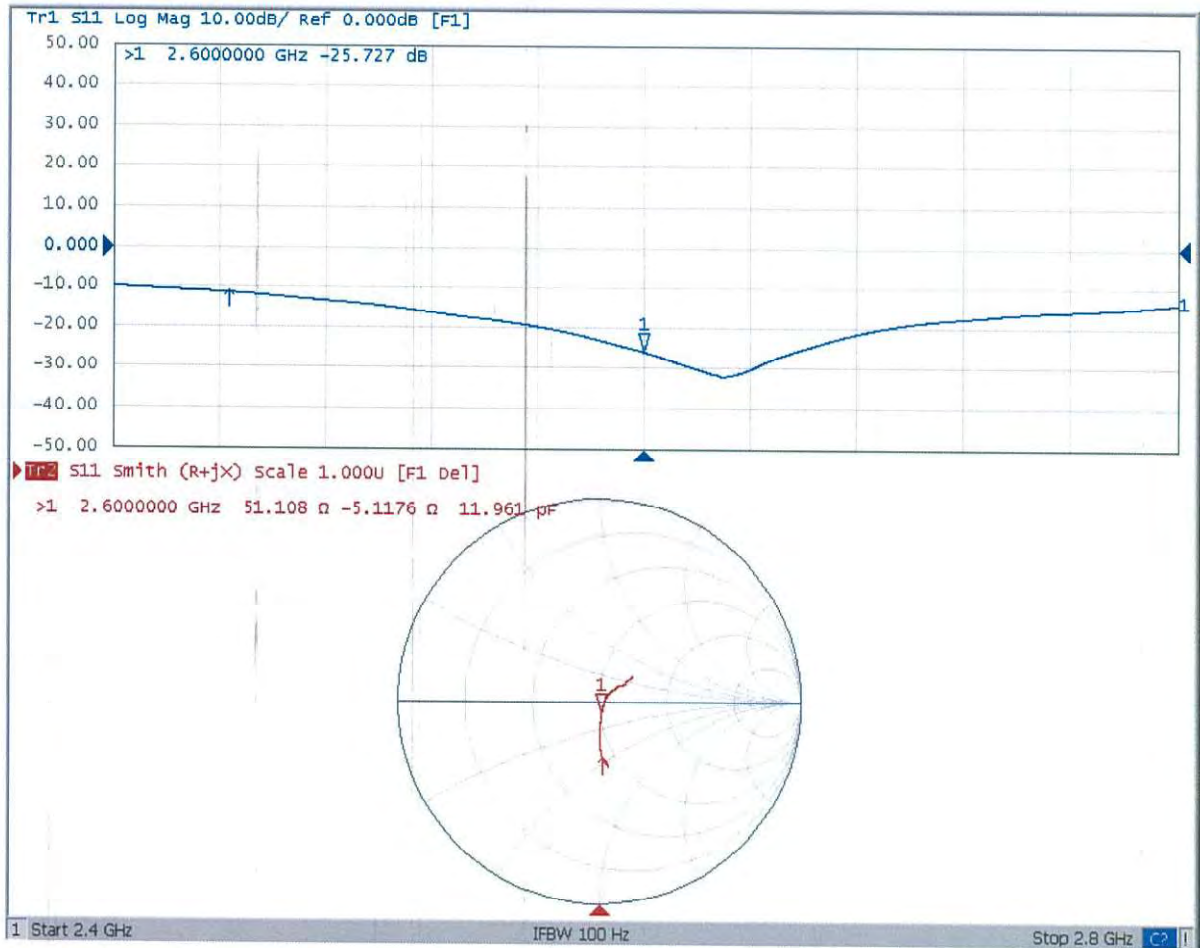
0 dB = 24.1 W/kg = 13.82 dBW/kg



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Impedance Measurement Plot for Head TSL



D2600V2 - SN: 1110 Extended Dipole Calibrations

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

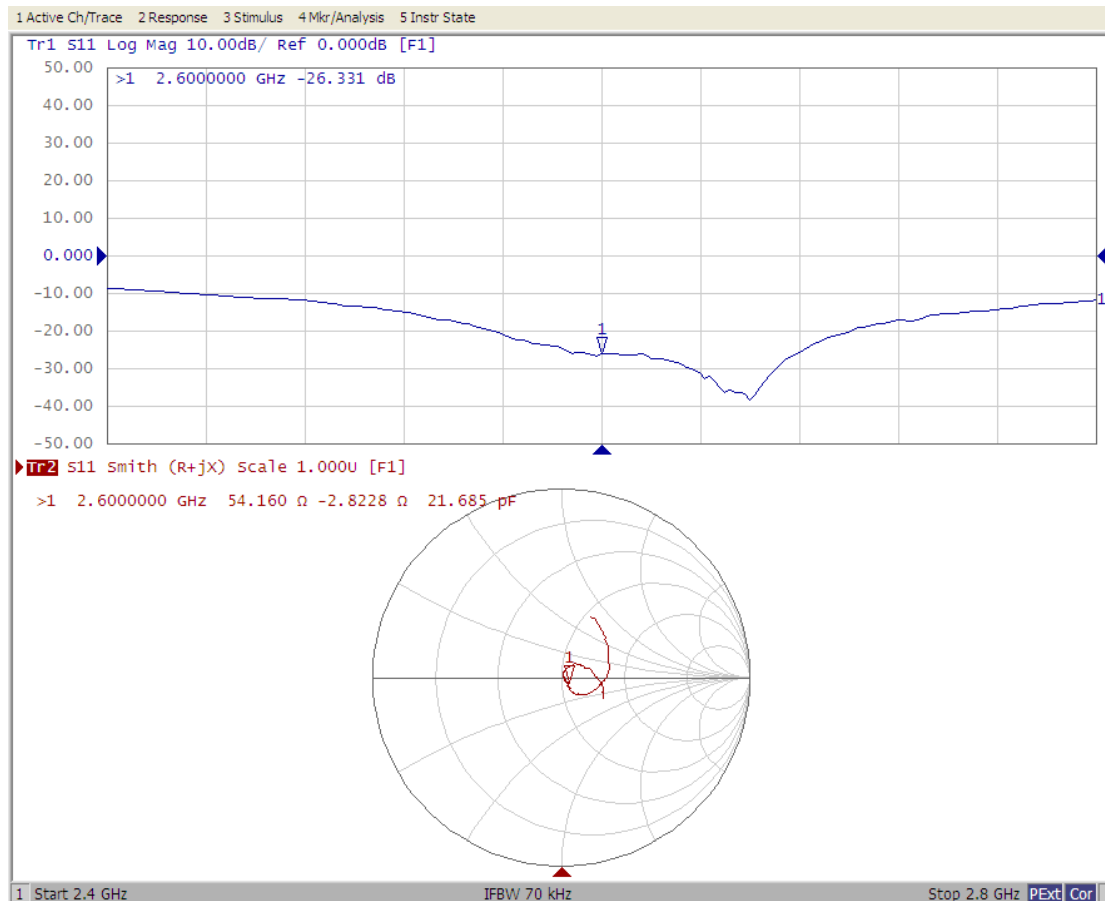
D2600V2 - SN: 1110						
2600 Head						
Date of Measurement	Return-loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021.09.16	-25.7		51.1		-5.1	
2022.09.16	-26.3	2.7	54.2	3.1	-2.8	2.3
2023.09.16	-26.0	-1.2	53.1	2	-4.2	0.9

<Justification of the extended calibration>

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

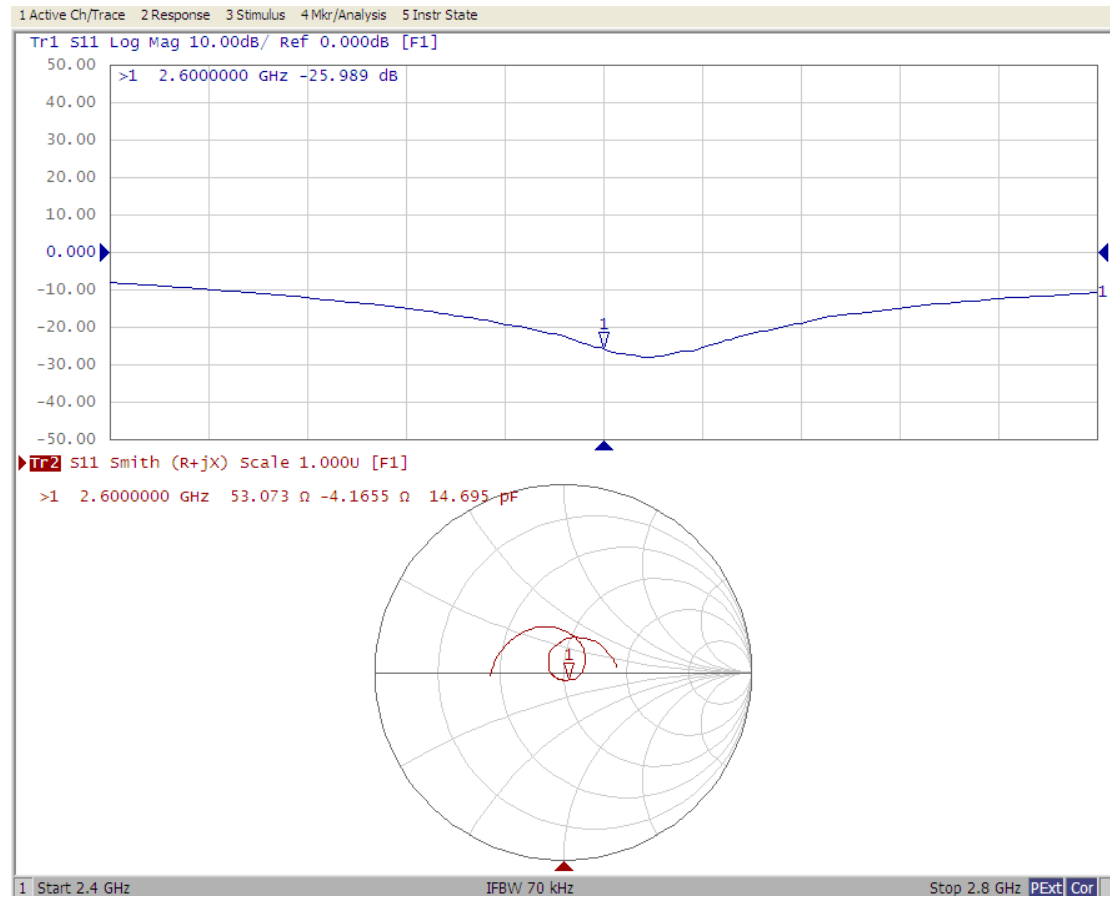
<Dipole Verification Data>

Head 2600MHz _2022.09.16



<Dipole Verification Data>

Head 2600MHz _2023.09.16





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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

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



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Glossary:

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

Calibration is Performed According to the Following Standards:

- a) 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 cm³ (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 cm³ (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 cm³ (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 cm³ (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 cm³ (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 cm³ (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
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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; $\sigma = 4.704$ S/m; $\epsilon_r = 36.62$; $\rho = 1000$ kg/m³,
Medium parameters used: $f = 5600$ MHz; $\sigma = 5.084$ S/m; $\epsilon_r = 36$; $\rho = 1000$ kg/m³,
Medium parameters used: $f = 5750$ MHz; $\sigma = 5.248$ S/m; $\epsilon_r = 35.78$; $\rho = 1000$ kg/m³,

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

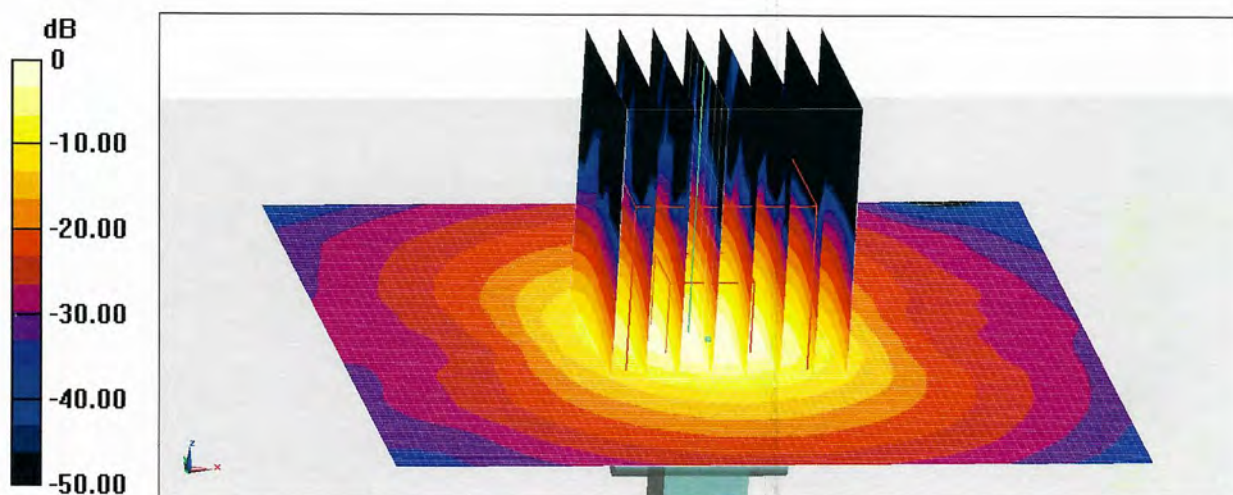
Ratio of SAR at M2 to SAR at M1 = 63.3%

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

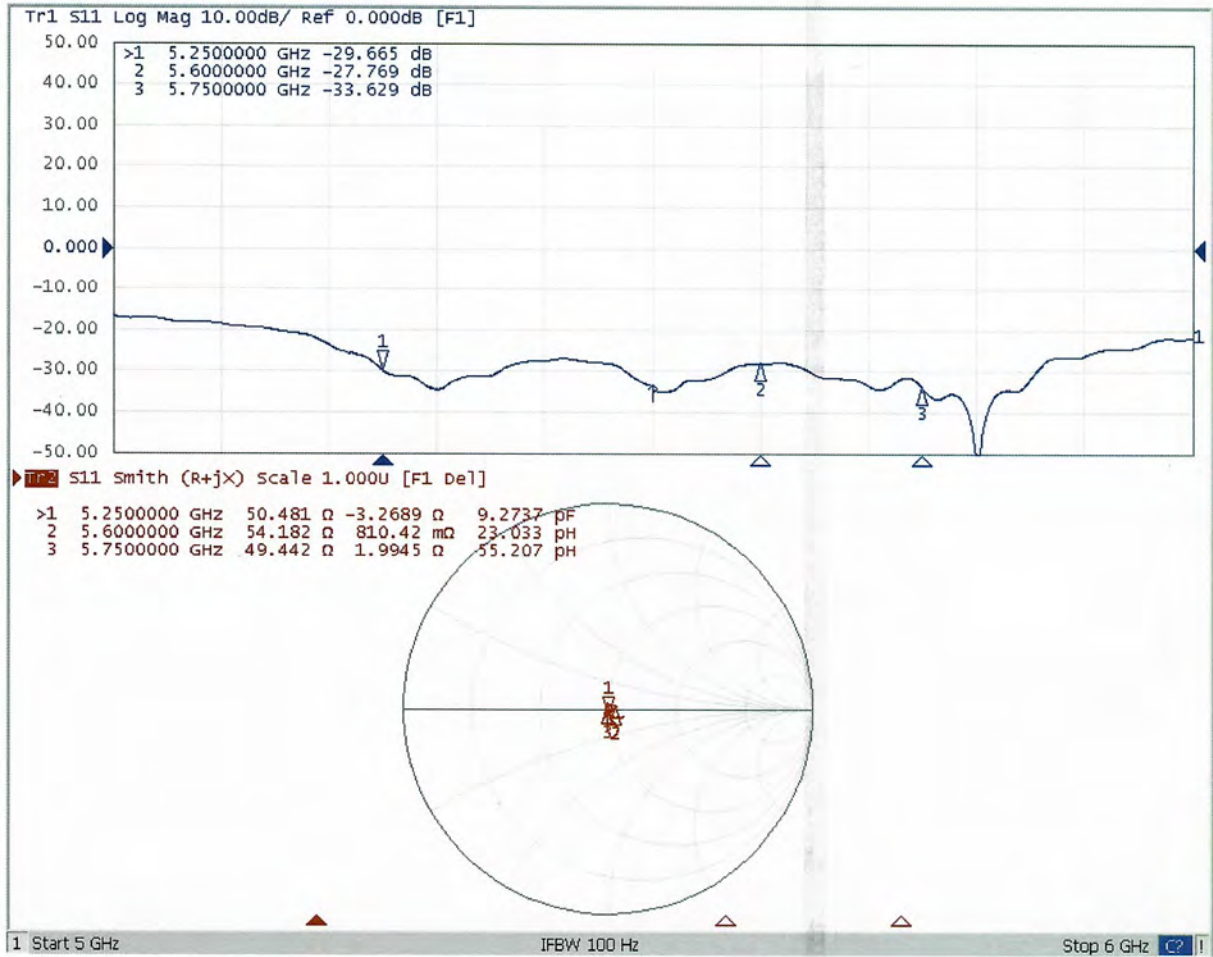


0 dB = 18.6 W/kg = 12.70 dBW/kg



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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

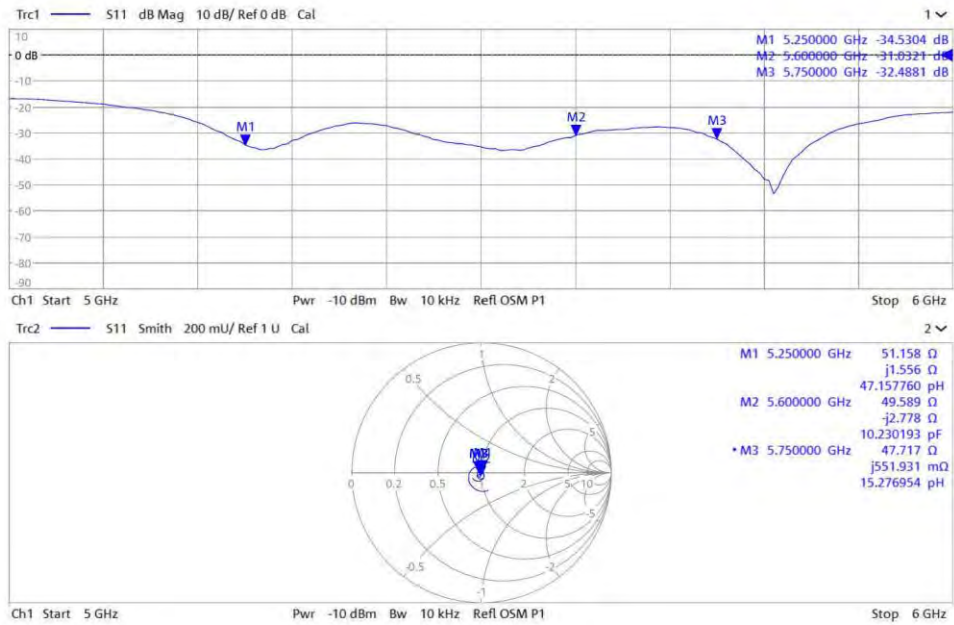
D5GHzV2 - SN: 1315						
5750MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.22.2021	-33.6		49.4		1.99	
10.21.2022	-32.49	-3.31	47.72	-1.68	0.55	-1.44
10.20.2023	-36.43	8.41	50.87	1.47	1.34	-0.65

<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

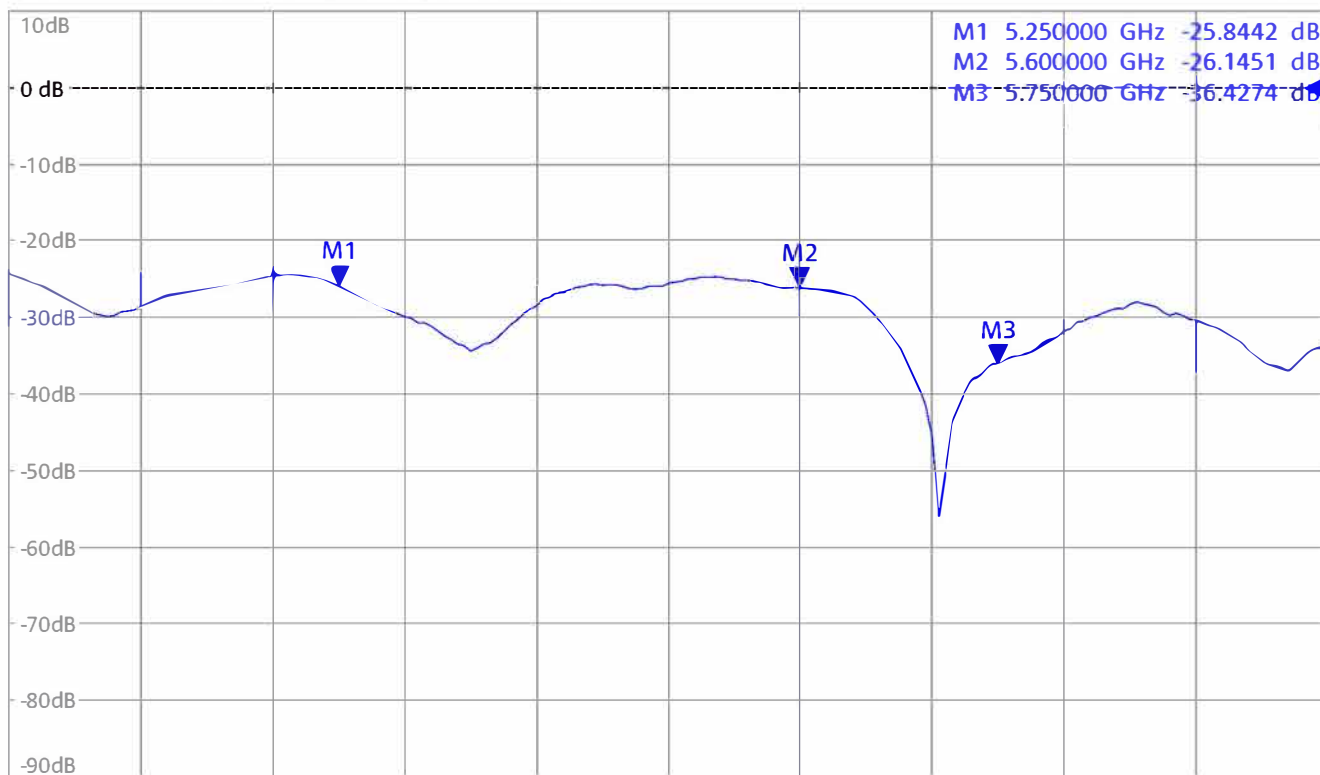


<Dipole Verification Data>

Head 5250-5750MHz_2023.10.20

Trc1 — S11 dB Mag 10 dB/ Ref 0 dB Cal

1

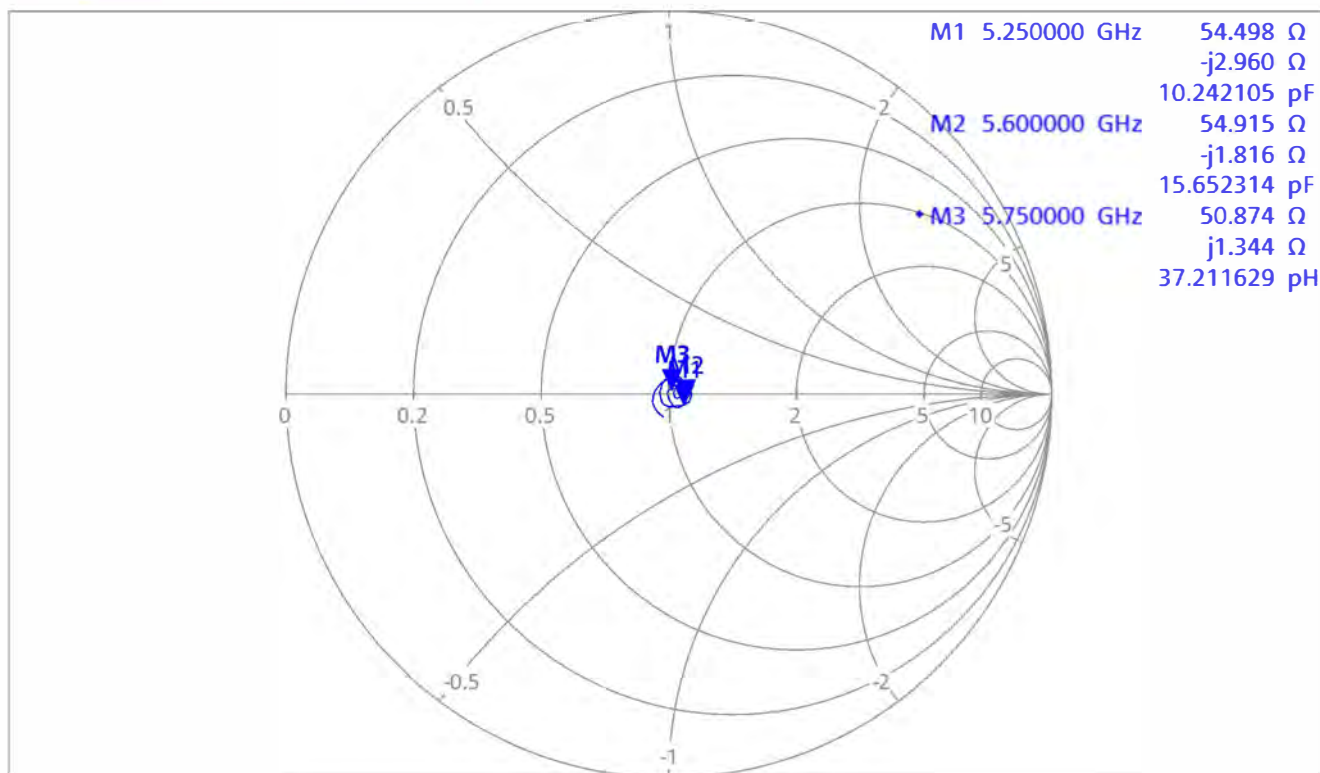


Ch1 Start 5 GHz Pwr -10 dBm Bw 10 kHz Refl OSM P1

Stop 6 GHz

Trc2 — S11 Smith 200 mU/ Ref 1 U Cal

2



Ch1 Start 5 GHz Pwr -10 dBm Bw 10 kHz Refl OSM P1

Stop 6 GHz

Appendix D. Conducted RF Output Power Table

The detailed power table are shown as follows.

Default Power 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	32.22	32.28	32.35	33.50	29.41	29.42	29.31	30.50	
GPRS 1Tx Slot	32.20	32.30	32.36	33.50	29.36	29.40	29.30	30.50	
GPRS 2Tx Slot	28.87	29.02	29.11	30.00	25.75	25.89	25.96	26.70	
GPRS 3Tx Slot	27.41	27.56	27.67	28.50	23.92	24.10	24.22	25.00	
GPRS 4Tx Slot	26.40	26.51	26.64	27.50	22.95	23.13	23.28	24.00	
EDGE 1Tx Slot	26.96	27.01	26.97	28.00	25.83	26.08	26.11	27.00	
EDGE 2Tx Slot	23.52	23.82	23.69	25.00	22.81	22.98	23.14	24.00	
EDGE 3Tx Slot	21.77	22.04	21.91	23.00	20.96	21.23	21.37	22.00	
EDGE 4Tx Slot	20.96	21.00	20.99	22.00	19.99	20.04	20.20	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	
GSM	23.22	23.28	23.35	24.50	20.41	20.42	20.31	21.50
GPRS 1Tx Slot	23.20	23.30	23.36	24.50	20.36	20.40	20.30	21.50
GPRS 2Tx Slot	22.87	23.02	23.11	24.00	19.75	19.89	19.96	20.70
GPRS 3Tx Slot	23.15	23.30	23.41	24.24	19.66	19.84	19.96	20.74
GPRS 4Tx Slot	23.40	23.51	23.64	24.50	19.95	20.13	20.28	21.00
EDGE 1Tx Slot	17.96	18.01	17.97	19.00	16.83	17.08	17.11	18.00
EDGE 2Tx Slot	17.52	17.82	17.69	19.00	16.81	16.98	17.14	18.00
EDGE 3Tx Slot	17.51	17.78	17.65	18.74	16.70	16.97	17.11	17.74
EDGE 4Tx Slot	17.96	18.00	17.99	19.00	16.99	17.04	17.20	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)	
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	24.42	24.45	24.35	25.50	24.61	24.63	24.69	25.50	24.72	24.69	24.67	25.50
HSDPA Subtest-1	23.59	23.60	23.46	24.00	23.72	23.81	23.75	24.00	23.79	23.75	23.83	24.00
HSDPA Subtest-2	23.59	23.60	23.49	24.00	23.79	23.77	23.70	24.00	23.76	23.80	23.79	24.00
HSDPA Subtest-3	23.05	23.10	22.98	24.00	23.24	23.30	23.29	24.00	23.32	23.34	23.33	24.00
HSDPA Subtest-4	23.12	23.07	23.04	24.00	23.32	23.35	23.37	24.00	23.35	23.33	23.28	24.00
DC-HSDPA Subtest-1	23.54	23.59	23.49	24.00	23.82	23.78	23.78	24.00	23.86	23.82	23.86	24.00
DC-HSDPA Subtest-2	23.54	23.57	23.47	24.00	23.80	23.83	23.88	24.00	23.91	23.88	23.86	24.00
DC-HSDPA Subtest-3	23.04	23.14	22.97	24.00	23.30	23.30	23.33	24.00	23.31	23.32	23.33	24.00
DC-HSDPA Subtest-4	23.07	23.12	23.01	24.00	23.30	23.28	23.38	24.00	23.36	23.33	23.35	24.00
HSUPA Subtest-1	21.74	21.75	21.72	23.00	21.93	21.97	22.09	23.00	22.11	21.99	22.00	23.00
HSUPA Subtest-2	21.50	21.47	21.41	23.00	21.63	21.66	21.74	23.00	21.74	21.79	21.77	23.00
HSUPA Subtest-3	22.33	22.37	22.26	23.00	22.54	22.61	22.65	23.00	22.68	22.61	22.64	23.00
HSUPA Subtest-4	21.12	21.07	21.01	23.00	21.28	21.32	21.28	23.00	21.68	21.58	21.56	23.00
HSUPA Subtest-5	22.36	22.36	22.29	23.00	22.59	22.56	22.66	23.00	22.63	22.59	22.62	23.00
HSPA+ Subtest-1	21.65	21.69	21.54	23.00	21.91	21.87	21.94	23.00	22.00	21.89	21.93	23.00

LTE Band 2										
BW	Modulation	RB Size		RB Offset	Low			High	3GPP MPR (dB)	Max. Tx Power (dBm)
		Channel	Frequency (MHz)		1880	1888	1900			
10M	QPSK	1	0	24.15	24.14	24.14	0	23.5	0	25.5
		1	50	24.43	24.42	24.42	0	23.5	0	25.5
		1	99	24.71	24.70	24.70	0	23.5	0	25.5
		50	0	23.45	23.47	23.55	1	24.5	0	24.5
		50	25	23.52	23.49	23.57	1	24.5	0	24.5
		50	50	23.60	23.46	23.41	1	24.5	0	24.5
	16QAM	1	0	23.54	23.38	23.42	1	24.5	0	24.5
		1	50	23.87	23.77	23.66	1	24.5	0	24.5
		1	99	24.41	24.40	24.41	1	24.5	0	24.5
		50	0	22.52	22.51	22.54	2	23.5	0	23.5
		50	25	22.64	22.56	22.53	2	23.5	0	23.5
		50	50	22.66	22.56	22.37	2	23.5	0	23.5
64QAM	1	0	22.45	22.41	22.38	2	23.5	0	23.5	
	1	50	22.72	22.76	22.62	2	23.5	0	23.5	
	1	99	22.98	22.93	22.44	2	23.5	0	23.5	
	50	0	21.49	21.54	21.54	3	22.5	0	22.5	
	50	25	21.53	21.53	21.57	3	22.5	0	22.5	
	50	50	21.48	21.58	21.37	3	22.5	0	22.5	
10M	QPSK	1	0	21.45	21.55	21.44	3	22.5	0	22.5
		1	50	21.87	21.87	21.87	3	22.5	0	22.5
		1	99	22.14	22.13	22.13	3	22.5	0	22.5
		50	0	20.48	20.45	20.41	0	20.5	0	20.5
		50	25	20.38	20.41	20.46	0	20.5	0	20.5
		50	50	20.38	20.34	20.49	1	24.5	0	24.5
	16QAM	1	0	20.43	20.39	20.36	1	24.5	0	24.5
		1	50	20.43	20.41	20.35	1	24.5	0	24.5
		1	99	20.69	20.68	20.39	1	24.5	0	24.5
		1	37	23.85	23.85	23.87	1	24.5	0	24.5
		1	74	23.38	23.31	23.26	1	24.5	0	24.5
		36	0	22.38	22.36	22.51	2	23.5	0	23.5
64QAM	36	19	22.41	22.48	22.41	2	23.5	0	23.5	
	36	39	22.39	22.58	22.34	2	23.5	0	23.5	
	75	0	22.43	22.39	22.45	2	23.5	0	23.5	
	1	0	22.99	22.97	22.39	2	23.5	0	23.5	
	1	37	22.69	22.66	22.60	2	23.5	0	23.5	
	1	74	22.37	22.31	22.32	2	23.5	0	23.5	
10M	QPSK	1	0	21.42	21.44	21.42	3	22.5	0	22.5
		1	50	21.19	21.49	21.54	3	22.5	0	22.5
		1	99	21.41	21.47	21.29	3	22.5	0	22.5
		75	0	21.39	21.52	21.39	3	22.5	0	22.5
		1	0	24.04	24.02	23.99	0	25.5	0	25.5
		1	24	24.36	24.33	24.39	0	25.5	0	25.5
	16QAM	1	49	24.11	24.02	24.01	0	25.5	0	25.5
		25	0	23.35	23.37	23.51	1	24.5	0	24.5
		25	12	23.45	23.34	23.50	1	24.5	0	24.5
		25	25	23.32	23.53	23.29	1	24.5	0	24.5
		50	0	23.32	23.39	23.34	1	24.5	0	24.5
		1	0	23.43	23.35	23.31	1	24.5	0	24.5
64QAM	1	24	23.80	23.62	23.60	1	24.5	0	24.5	
	1	49	23.88	23.46	23.29	1	24.5	0	24.5	
	25	0	22.47	22.42	22.43	2	23.5	0	23.5	
	25	12	22.51	22.41	22.41	2	23.5	0	23.5	
	25	25	22.43	22.62	22.33	2	23.5	0	23.5	
	50	0	22.43	22.49	22.36	2	23.5	0	23.5	
10M	QPSK	1	0	22.33	22.34	22.27	2	23.5	0	23.5
		1	24	22.57	22.62	22.53	2	23.5	0	23.5
		1	49	22.37	22.32	22.39	2	23.5	0	23.5
		25	0	21.41	21.49	21.50	3	22.5	0	22.5
		25	12	21.43	21.43	21.50	3	22.5	0	22.5
		25	25	21.36	21.47	21.31	3	22.5	0	22.5
	16QAM	50	0	21.46	21.37	21.43	3	22.5	0	22.5
		1	0	23.67	23.71	23.56	0	25.5	0	25.5
		1	24	24.00	24.07	23.99	0	25.5	0	25.5
		25	0	23.63	23.86	23.86	0	25.5	0	25.5
		25	12	23.07	23.21	23.11	1	24.5	0	24.5
		25	25	23.09	23.16	23.11	1	24.5	0	24.5
64QAM	50	0	22.60	22.60	22.60	3	22.5	0	22.5	
	1	0	22.79	22.38	22.34	1	24.5	0	24.5	
	1	24	23.24	23.32	23.27	1	24.5	0	24.5	
	1	49	23.24	23.17	22.67	1	24.5	0	24.5	
	25	0	22.19	22.18	22.00	2	23.5	0	23.5	
	25	12	22.12	22.05	22.06	2	23.5	0	23.5	
16QAM	25	25	22.14	21.93	21.96	2	23.5	0	23.5	
	50	0	21.87	21.87	21.84	2	23.5	0	23.5	
	1	0	21.85	21.88	21.83	2	23.5	0	23.5	
	1	24	22.25	22.16	22.24	2	23.5	0	23.5	
	1	49	21.89	21.90	21.90	2	23.5	0	23.5	
	25	0	20.85	20.85	20.86	3	22.5	0	22.5	
64QAM	25	12	20.86	21.05	20.83	3	22.5	0	22.5	
	25	25	20.83	21.05	21.01	3	22.5	0	22.5	
	50	0	20.80	20.82	20.86	3	22.5	0	22.5	
	1	0	19.75	19.75	19.75	0	20.5	0	20.5	
	1	24	23.76	23.81	23.67	0	25.5	0	25.5	
	12	0	23.13	23.27	23.17	1	24.5	0	24.5	
16QAM	12	6	23.12	23.20	23.09	1	24.5	0	24.5	
	12	6	23.09	23.17	23.08	1	24.5	0	24.5	
	25	0	22.93	23.21	23.05	1	24.5	0	24.5	
	1	0	22.83	23.02	22.92	1	24.5	0	24.5	
	1	12	23.09	23.11	23.11	1	24.5	0	24.5	
	1	24	23.25	23.12	23.33	1	24.5	0	24.5	
64QAM	12	0	22.07	21.99	22.01	2	23.5	0	23.5	
	12	6	22.22	22.09	21.99	2	23.5	0	23.5	
	12	6	22.10	21.98	21.95	2	23.5	0	23.5	
	25	0	22.05	21.93	21.94	2	23.5	0	23.5	
	1	0	21.88	21.91	21.82	2	23.5	0	23.5	
	1	12	22.11	22.11	22.04	2	23.5	0	23.5	
16QAM	1	24	21.92	22.01	22.00	2	23.5	0	23.5	
	12	0	20.87	20.92	20.92	3	22.5	0	22.5	
	12	6	21.01	21.05	20.91	3	22.5	0	22.5	
	12	0	20.94	20.99	21.04	3	22.5	0	22.5	
	25	0	20.82	20.82	20.83	3	22.5	0	22.5	
	25	0	20.82	20.82	20.83	3	22.5	0	22.5	

LTE Band 4										
BW	Modulation	RB Size		RB Offset	Low			High	3GPP MPR (dB)	Max. Tx Power (dBm)
		Channel	Frequency (MHz)		1720	1732.5	1743			
10M	QPSK	1	0	23.76	23.59	23.69	0	25.5	0	25.5
		1	50	24.00	24.19	24.10	0	25.5	0	25.5
		1	99	23.80	23.69	23.69	0	25.5	0	25.5
		50	0	23.16	23.07	23.11	1	24.5	0	24.5
		50	25	23.13	23.27	23.17	1	24.5	0	24.5
		50	50	23.14	23.18	23.21	1	24.5	0	24.5
	16QAM	1	0	22.91	23.11	22.97	1	24.5	0	24.5
		1	50	23.35	23.41	23.34	1	24.5	0	24.5
		1	99	23.54	23.59	23.59	1	24.5	0	24.5
		50	0	22.18	22.01	22.09	2	23.5	0	23.5
		50	25	22.26	22.15	22.13	2	23.5	0	23.5
		50	50	22.24	22.01	22.01	2	23.5	0	23.5
64QAM	1	0	21.90	22.03	21.96	2	23.5	0	23.5	
	1	50	22.22	22.26	22.28	2	23.5	0	23.5	
	1	99	22.50	22.50	22.50	2	23.5	0	23.5	
	50	0	20.99	21.00	21.04	3	22.5	0	22.5	
	50	25	21.02	21.08	21.06	3	22.5	0	22.5	
	50	50	21.03	21.06	21.07	3	22.5	0	22.5	
10M	QPSK	1	0	20.92	20.95	20.96	3	22.5	0	22.5
		1	50	21.22	21.22	21.22	3	22.5	0	22.5
		1	99	21.50	21.50	21.50	3	22.5	0	22.5
		50	0	19.97	19.97	19.97	0	20.5	0	20.5
		50	25	19.97	19.97	19.97	0	20.5	0	20.5
		50	50	19.97	19.97	19.97	0	20.5	0	20.5
	16QAM	1	0	22.95	23.18	23.07	1	24.5	0	24.5
		1	50	23.78	23.86	23.87	1	24.5	0	24.5
		1	99	23.78	23.83	23.73	0	25.5	0	25.5
		50	0	23.08	22.98	23.07	1	24.5	0	24.5

LTE Band 7									
BW	Modulation	RB Size		Low	Mid	High	SCPP	Max. Twp-up	Max. MPR
		Channel	RB Offset						
20M	QPSK	1	0	23.55	23.67	23.79	0	25	
		1	50	24.23	24.02	24.19	0	25	
		1	99	23.91	23.68	23.87	0	25	
		50	0	23.07	22.83	23.02	1	24	
		50	25	23.14	22.91	23.08	1	24	
		50	50	23.12	22.82	22.97	1	24	
	16QAM	1	0	23.10	22.72	23.35	1	24	
		1	50	23.29	23.03	23.60	1	24	
		1	99	23.01	22.77	23.21	1	24	
		50	0	22.05	21.67	21.93	2	23	
		50	25	22.12	21.75	21.98	2	23	
		50	50	22.09	21.62	21.90	2	23	
64QAM	1	0	22.05	21.68	21.93	2	23		
	1	0	22.13	22.02	21.68	2	23		
	1	50	22.49	22.35	21.97	2	23		
	1	99	22.05	21.96	21.62	2	23		
	50	0	21.05	21.08	20.98	3	22		
	50	25	21.15	21.17	21.05	3	22		
BW	Modulation	Channel		2865	2160	2195	SCPP	Max. Twp-up	Max. MPR
		Frequency (MHz)		2875.5	2835	2862.5	(dB)	(dB)	
	QPSK	1	37	24.23	23.99	24.10	0	25	
		1	74	23.86	23.53	23.86	0	25	
		36	0	23.02	22.70	22.88	1	24	
		36	18	23.07	22.87	23.21	1	24	
		36	36	23.11	22.89	23.06	1	24	
		75	0	22.97	22.62	22.96	1	24	
	16QAM	1	37	23.84	23.54	23.69	1	24	
		1	74	23.30	22.88	23.07	1	24	
		1	37	23.30	22.63	23.20	1	24	
		36	0	22.04	21.62	21.67	2	23	
36		18	21.67	21.24	21.27	2	23		
36		36	22.01	21.59	21.78	2	23		
64QAM	1	37	22.00	21.58	21.92	2	23		
	1	74	22.42	22.28	21.89	2	23		
	1	37	22.42	22.28	21.89	2	23		
	36	0	20.99	21.05	20.84	3	22		
	36	18	21.00	21.04	20.84	3	22		
	36	36	21.02	20.96	20.86	3	22		
BW	Modulation	Channel		2895	2160	2160	SCPP	Max. Twp-up	Max. MPR
		Frequency (MHz)		2895	2835	2862.5	(dB)	(dB)	
	QPSK	1	0	23.58	23.63	23.67	0	25	
		1	24	24.25	23.99	24.14	0	25	
		1	48	23.76	23.94	23.72	0	25	
		12	0	22.97	22.78	22.89	1	24	
		12	12	23.13	22.84	22.78	1	24	
		12	24	23.05	22.79	23.02	1	24	
	16QAM	1	0	22.56	22.68	23.06	1	24	
		1	0	22.91	22.63	23.23	1	24	
		1	24	23.33	23.02	23.48	1	24	
		1	48	23.03	22.96	23.13	1	24	
25		0	22.97	21.59	21.89	2	23		
25		12	22.11	21.69	21.88	2	23		
64QAM	1	0	21.85	21.54	21.86	2	23		
	1	0	21.98	21.91	21.52	2	23		
	1	24	22.45	22.34	21.96	2	23		
	1	48	21.93	21.85	21.56	2	23		
	25	0	20.92	20.99	20.86	3	22		
	25	12	21.14	21.03	20.91	3	22		
BW	Modulation	Channel		2875	2160	21425	SCPP	Max. Twp-up	Max. MPR
		Frequency (MHz)		2862.5	2835	2867.5	(dB)	(dB)	
	QPSK	1	0	23.94	23.56	23.70	0	25	
		1	12	24.18	23.95	24.07	0	25	
		1	24	23.86	23.61	23.86	0	25	
		12	0	23.02	22.71	22.87	1	24	
		12	6	23.08	22.85	22.74	1	24	
		12	12	22.99	22.77	23.03	1	24	
	16QAM	1	0	23.06	22.64	23.00	1	24	
		1	0	22.99	22.69	23.20	1	24	
		1	12	23.30	23.02	23.50	1	24	
		1	24	22.87	22.64	23.10	1	24	
12		0	22.02	21.64	21.90	2	23		
12		6	22.07	21.70	21.84	2	23		
64QAM	1	0	21.99	21.63	21.82	2	23		
	1	0	22.09	21.98	21.56	2	23		
	1	12	22.44	22.25	21.84	2	23		
	1	24	22.05	21.87	21.59	2	23		
	12	0	21.01	21.03	20.97	3	22		
	12	6	21.00	21.02	20.94	3	22		

LTE Band 13									
BW	Modulation	RB Size		Low	Mid	High	SCPP	Max. Twp-up	Max. MPR
		Channel	RB Offset						
20M	QPSK	1	0	24.45			0	25.5	
		1	24	24.84			0	25.5	
		1	48	24.50			0	25.5	
		25	0	23.61			1	24.5	
		25	12	23.63			1	24.5	
		25	25	23.56			1	24.5	
	16QAM	1	0	23.46			1	24.5	
		1	24	23.74			1	24.5	
		1	48	23.51			1	24.5	
		25	0	22.51			2	23.5	
		25	12	22.52			2	23.5	
		25	25	22.47			2	23.5	
64QAM	1	0	22.59			2	23.5		
	1	24	22.78			2	23.5		
	1	48	22.59			2	23.5		
	25	0	21.49			3	22.5		
	25	12	21.48			3	22.5		
	25	25	21.47			3	22.5		
BW	Modulation	Channel		2320	2320	2320	SCPP	Max. Twp-up	Max. MPR
		Frequency (MHz)		779.5	782	784.5	(dB)	(dB)	
	QPSK	1	0	24.35	24.30	24.42	0	25.5	
		1	12	24.53	24.42	24.48	0	25.5	
		1	24	24.37	24.35	24.26	0	25.5	
		12	0	23.37	23.40	23.41	1	24.5	
		12	6	23.43	23.53	23.41	1	24.5	
		12	12	23.34	23.45	23.50	1	24.5	
	16QAM	1	0	23.48	23.51	23.42	1	24.5	
		1	0	22.45	22.54	22.43	1	24.5	
		1	12	23.73	23.73	23.70	1	24.5	
		1	24	23.45	23.42	23.44	1	24.5	
12		0	22.41	22.49	22.45	2	23.5		
12		6	22.45	22.44	22.39	2	23.5		
64QAM	1	0	22.49	22.37	22.41	2	23.5		
	1	0	22.49	22.40	22.53	2	23.5		
	1	12	22.45	22.54	22.43	2	23.5		
	1	24	22.45	22.48	22.50	2	23.5		
	12	0	21.40	21.38	21.44	3	22.5		
	12	6	21.39	21.44	21.36	3	22.5		

LTE Band 28									
BW	Modulation	RB Size		Low	Mid	High	SCPP	Max. Twp-up	Max. MPR
		Channel	RB Offset						
20M	QPSK	1	0	24.42	24.36	24.49	0	25.5	
		1	37	24.88	24.66	24.94	0	25.5	
		1	74	24.42	24.41	24.36	0	25.5	
		36	0	23.52	23.54	23.55	1	24.5	
		36	19	23.61	23.58	23.57	1	24.5	
		36	36	23.48	23.57	23.54	1	24.5	
	16QAM	1	0	23.56	23.54	23.55	1	24.5	
		1	0	23.59	23.55	23.56	1	24.5	
		1	37	23.62	23.78	23.87	1	24.5	
		1	74	23.67	23.70	23.66	1	24.5	
		36	0	22.55	22.64	22.54	2	23.5	
		36	19	22.60	22.62	22.56	2	23.5	
64QAM	1	0	21.53	21.58	21.52	3	22.5		
	1	0	21.63	21.61	21.56	3	22.5		
	1	37	22.90	22.81	22.86	2	23.5		
	1	74	22.64	22.66	22.67	2	23.5		
	36	0	21.53	21.61	21.56	3	22.5		
	36	19	21.61	21.62	21.58	3	22.5		
BW	Modulation	Channel		2875	2885	2885	SCPP	Max. Twp-up	Max. MPR
		Frequency (MHz)		819	821.5	824	(dB)	(dB)	
	QPSK	1	0	24.39	24.31	24.39	0	25.5	
		1	24	24.57	24.53	24.55	0	25.5	
		1	48	24.36	24.28	24.27	0	25.5	
		12	0	23.50	23.57	23.50	1	24.5	
		12	12	23.43	23.53	23.53	1	24.5	
		12	24	23.43	23.45	23.40	1	24.5	
	16QAM	1	0	23.37	23.40	23.51	1	24.5	
		1	0	23.53	23.56	23.51	1	24.5	
		1	24	23.75	23.75	23.83	1	24.5	
		1	48	23.57	23.69	23.56	1	24.5	
12		0	22.40	22.56	22.43	2	23.5		
12		12	22.42	22.59	22.56	2	23.5		
64QAM	1	0	22.48	22.52	22.44	2	23.5		
	1	0	22.50	22.60	22.51	2	23.5		
	1	24	22.88	22.69	22.73	2	23.5		

LTE Band 38										
BW	Modulation	RB Size		Low	Mid	High	SPP	Max.	Max.	
		Channel	Offset							3792.5
Frequency (MHz)										
10M	QPSK	1	0	23.67	23.65	23.65	0	25	0	25
		1	0	24.14	24.14	24.14	0	25	0	25
		1	99	23.65	23.62	23.65	0	25	0	25
		50	0	23.62	23.13	23.13	1	24	0	24
		50	0	22.87	23.01	23.18	2	23	0	23
		50	50	23.67	23.11	23.08	1	24	0	24
		100	0	23.67	23.12	23.10	1	24	0	24
		1	0	22.87	23.02	23.11	2	23	0	23
		1	50	23.33	23.33	23.10	1	24	0	24
		1	99	22.88	22.78	22.73	1	24	0	24
20M	16QAM	1	0	22.89	22.89	22.82	2	23	0	23
		50	25	22.13	22.14	22.14	2	23	0	23
		50	50	22.15	22.08	22.11	2	23	0	23
		100	0	21.78	21.81	21.81	2	23	0	23
		1	50	22.50	22.27	21.93	2	23	0	23
		1	99	21.62	21.63	21.62	2	23	0	23
		50	0	20.96	20.94	21.04	3	22	0	22
		50	25	21.06	20.97	21.05	3	22	0	22
		50	50	20.97	20.96	20.96	3	22	0	22
		100	0	20.95	21.01	20.98	3	22	0	22
30M	64QAM	1	0	20.95	21.01	20.98	3	22	0	22
		1	37	24.22	24.23	24.19	0	25	0	25
		1	74	23.89	23.77	23.88	0	25	0	25
		38	0	22.84	23.29	23.11	1	24	0	24
		38	19	22.87	23.13	23.07	1	24	0	24
		38	39	23.61	23.00	22.98	1	24	0	24
		75	0	22.86	23.02	23.00	1	24	0	24
		1	0	22.91	22.94	22.97	1	24	0	24
		1	37	23.26	23.27	23.03	1	24	0	24
		1	74	23.70	23.71	23.66	1	24	0	24
15M	16QAM	38	0	21.96	21.89	22.07	2	23	0	23
		38	19	22.12	22.01	22.13	2	23	0	23
		38	39	22.82	22.91	22.88	2	23	0	23
		75	0	21.98	21.98	21.99	2	23	0	23
		1	0	21.77	21.84	21.87	2	23	0	23
		1	37	21.68	21.99	21.82	2	23	0	23
		1	74	21.51	21.57	21.75	2	23	0	23
		38	0	20.86	20.82	20.99	3	22	0	22
		38	19	21.02	20.83	20.93	3	22	0	22
		38	39	20.82	20.88	20.87	3	22	0	22
30M	64QAM	75	0	20.86	20.89	20.82	3	22	0	22
		1	0	23.72	23.90	23.81	0	25	0	25
		1	24	24.17	24.28	24.14	0	25	0	25
		1	48	23.81	23.83	23.87	0	25	0	25
		25	0	22.80	22.95	23.10	1	24	0	24
		25	12	22.89	23.13	23.01	1	24	0	24
		25	25	22.85	23.08	23.01	1	24	0	24
		50	0	22.85	23.00	23.08	1	24	0	24
		1	0	22.82	23.00	22.88	1	24	0	24
		1	24	23.38	23.38	22.89	1	24	0	24
10M	16QAM	1	49	22.74	22.68	22.66	1	24	0	24
		25	0	21.89	21.97	22.14	2	23	0	23
		25	12	21.88	21.98	22.10	2	23	0	23
		25	25	22.82	23.07	23.01	2	23	0	23
		50	0	22.80	21.89	21.87	2	23	0	23
		1	0	21.72	21.90	21.83	2	23	0	23
		1	24	21.89	21.94	21.91	2	23	0	23
		1	49	21.87	21.84	21.84	2	23	0	23
		25	0	20.80	20.82	21.03	3	22	0	22
		25	12	20.84	20.89	21.03	3	22	0	22
30M	64QAM	25	25	20.84	20.84	20.84	3	22	0	22
		50	0	20.84	20.80	20.84	3	22	0	22
		1	0	23.78	23.86	23.82	0	25	0	25
		1	24	23.80	23.83	23.81	0	25	0	25
		12	0	23.01	23.05	23.12	1	24	0	24
		12	6	23.07	23.10	23.19	1	24	0	24
		12	13	23.05	23.01	23.01	1	24	0	24
		25	0	22.89	22.87	23.01	1	24	0	24
		1	0	22.83	22.89	22.86	1	24	0	24
		1	12	23.38	23.38	22.97	1	24	0	24
5M	16QAM	1	24	22.74	22.73	22.67	1	24	0	24
		12	0	21.87	21.92	22.04	2	23	0	23
		12	6	21.89	21.97	22.00	2	23	0	23
		12	13	22.13	21.95	21.98	2	23	0	23
		25	0	21.88	21.86	21.87	2	23	0	23
		1	0	21.88	21.89	21.83	2	23	0	23
		1	12	21.88	22.14	21.87	2	23	0	23
		1	24	21.85	21.81	21.89	2	23	0	23
		12	0	20.85	20.87	21.01	3	22	0	22
		12	13	20.84	20.89	20.81	3	22	0	22
30M	64QAM	25	0	20.85	20.87	20.81	3	22	0	22

LTE Band 41 (2486 - 2600MHz)											
BW	Modulation	RB Size		Low	Mid	High	SPP	Max.	Max.		
		Channel	Offset							4096.5	4121.5
Frequency (MHz)											
10M	QPSK	1	0	23.73	23.65	23.65	0	25	0	25	
		1	0	24.14	24.14	24.14	0	25	0	25	
		1	99	23.72	23.75	23.64	23.61	0	25	0	25
		50	0	22.78	23.01	22.77	22.88	22.78	1	24	0
		50	25	22.80	23.08	22.74	23.04	23.01	1	24	0
		50	50	22.89	22.97	22.72	22.84	22.88	1	24	0
		100	0	22.82	23.10	22.84	22.99	22.87	1	24	0
		1	0	22.70	22.88	22.87	22.88	22.74	1	24	0
		1	50	23.13	23.25	22.90	23.09	23.00	1	24	0
		1	99	22.80	22.80	22.58	22.72	22.59	1	24	0
20M	16QAM	1	0	21.85	22.08	21.83	21.84	21.87	2	23	0
		50	25	21.93	22.13	21.86	21.96	21.88	2	23	0
		50	50	22.00	22.05	21.78	21.90	21.73	2	23	0
		100	0	21.85	22.01	21.82	21.87	21.88	2	23	0
		1	0	21.86	21.83	21.88	21.82	21.58	2	23	0
		1	50	21.71	21.80	21.57	21.64	21.56	2	23	0
		1	99	21.58	21.37	21.38	21.68	21.63	2	23	0
		50	0	20.72	21.02	20.79	20.82	20.83	3	22	0
		50	25	20.89	21.05	20.81	20.89	20.85	3	22	0
		50	50	20.88	20.88	20.73	20.84	20.89	3	22	0
30M	64QAM	100	0	20.87	21.06	20.74	20.88	20.79	3	22	0
		1	0	23.63	23.62	23.66	23.60	23.63	0	25	0
		1	37	23.99	24.13	23.89	23.91	23.82	0	25	0
		1	74	23.45	23.68	23.58	23.64	23.58	0	25	0
		38	0	22.81	23.05	22.81	22.81	22.81	1	24	0
		38	19	22.78	22.88	22.77	22.81	22.74	1	24	0
		38	39	22.88	22.88	22.61	22.78	22.65	1	24	0
		75	0	22.79	23.08	22.78	22.85	22.76	1	24	0
		1	0	22.63	22.92	22.65	22.75	22.70	1	24	0
		1	37	23.11	23.10	22.89	23.04	22.99	1	24	0
15M	16QAM	38	0	21.80	21.80	21.80	21.80	21.80	2	23	0
		38	19	21.80	22.01	21.77	21.81	21.78	2	23	0
		38	39	21.82	22.06	21.78	21.85	21.79	2	23	0
		75	0	21.81	21.80	21.80	21.84	21.79	2	23	0
		1	0	21.80	22.05	21.73	21.89	21.73	2	23	0
		1	37	21.82	21.84	21.57	21.59	21.42	2	23	0
		1	74	21.44	21.45	21.57	21.55	21.53	2	23	0
		38	0	20.89	21.01	20.70	20.71	20.78	3	22	0
		38	19	20.82	20.91	20.80	20.80	20.74	3	22	0
		38	39	20.88	20.96	20.69	20.77	20.71	3	22	0
30M	64QAM	75	0	20.76	21.05	20.70	20.74	20.67	3	22	0
		1	0	23.71	23.87	23.83	23.80	23.86	0	25	0
		1	24	24.02	24.21	23.95	24.00	23.88	0	25	0
		1	48	23.62	23.63	23.59	23.62	23.67	0	25	0
		25	0	22.85	22.86	22.74	22.80	22.77	1	24	0
		25	12	22.88	23.02	22.69	22.87	22.78	1	24	0
		25	25	22.85	22.89	22					

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	32.22	32.28	32.35	33.50	29.41	29.42	29.31	30.50	
GPRS 1Tx Slot	32.20	32.30	32.36	33.50	29.36	29.40	29.30	30.50	
GPRS 2Tx Slot	28.87	29.02	29.11	30.00	25.75	25.89	25.96	26.70	
GPRS 3Tx Slot	27.41	27.56	27.67	28.50	23.92	24.10	24.22	25.00	
GPRS 4Tx Slot	26.40	26.51	26.64	27.50	22.95	23.13	23.28	24.00	
EDGE 1Tx Slot	26.96	27.01	26.97	28.00	25.83	26.08	26.11	27.00	
EDGE 2Tx Slot	23.52	23.82	23.69	25.00	22.81	22.98	23.14	24.00	
EDGE 3Tx Slot	21.77	22.04	21.91	23.00	20.96	21.23	21.37	22.00	
EDGE 4Tx Slot	20.96	21.00	20.99	22.00	19.99	20.04	20.20	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	
GSM	23.22	23.28	23.35	24.50	20.41	20.42	20.31	21.50
GPRS 1Tx Slot	23.20	23.30	23.36	24.50	20.36	20.40	20.30	21.50
GPRS 2Tx Slot	22.87	23.02	23.11	24.00	19.75	19.89	19.96	20.70
GPRS 3Tx Slot	23.15	23.30	23.41	24.24	19.66	19.84	19.96	20.74
GPRS 4Tx Slot	23.40	23.51	23.64	24.50	19.95	20.13	20.28	21.00
EDGE 1Tx Slot	17.96	18.01	17.97	19.00	16.83	17.08	17.11	18.00
EDGE 2Tx Slot	17.52	17.82	17.69	19.00	16.81	16.98	17.14	18.00
EDGE 3Tx Slot	17.51	17.78	17.65	18.74	16.70	16.97	17.11	17.74
EDGE 4Tx Slot	17.96	18.00	17.99	19.00	16.99	17.04	17.20	18.00

Band	WCDMA II			WCDMA II	WCDMA IV			WCDMA IV	WCDMA V			WCDMA V
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6	Max. Tune-up Power (dBm)	1712.4	1732.6	1752.6	Max. Tune-up Power (dBm)	826.4	836.4	846.6	Max. Tune-up Power (dBm)
RMC 12.2K	24.42	24.45	24.35	25.50	24.61	24.63	24.69	25.50	24.72	24.69	24.67	25.50
HSDPA Subtest-1	23.59	23.60	23.46	24.00	23.72	23.81	23.75	24.00	23.79	23.75	23.83	24.00
HSDPA Subtest-2	23.59	23.60	23.49	24.00	23.79	23.77	23.70	24.00	23.76	23.80	23.79	24.00
HSDPA Subtest-3	23.05	23.10	22.98	24.00	23.24	23.30	23.29	24.00	23.32	23.34	23.33	24.00
HSDPA Subtest-4	23.12	23.07	23.04	24.00	23.32	23.35	23.37	24.00	23.35	23.33	23.28	24.00
DC-HSDPA Subtest-1	23.54	23.59	23.49	24.00	23.82	23.78	23.78	24.00	23.86	23.82	23.86	24.00
DC-HSDPA Subtest-2	23.54	23.57	23.47	24.00	23.80	23.83	23.88	24.00	23.91	23.88	23.86	24.00
DC-HSDPA Subtest-3	23.04	23.14	22.97	24.00	23.30	23.30	23.33	24.00	23.31	23.32	23.33	24.00
DC-HSDPA Subtest-4	23.07	23.12	23.01	24.00	23.30	23.28	23.38	24.00	23.36	23.33	23.35	24.00
HSUPA Subtest-1	21.74	21.75	21.72	23.00	21.93	21.97	22.09	23.00	22.11	21.99	22.00	23.00
HSUPA Subtest-2	21.50	21.47	21.41	23.00	21.63	21.66	21.74	23.00	21.74	21.79	21.77	23.00
HSUPA Subtest-3	22.33	22.37	22.26	23.00	22.54	22.61	22.65	23.00	22.68	22.61	22.64	23.00
HSUPA Subtest-4	21.12	21.07	21.01	23.00	21.28	21.32	21.28	23.00	21.68	21.58	21.56	23.00
HSUPA Subtest-5	22.36	22.36	22.29	23.00	22.59	22.56	22.66	23.00	22.63	22.59	22.62	23.00
HSPA+ Subtest-1	21.65	21.69	21.54	23.00	21.91	21.87	21.94	23.00	22.00	21.89	21.93	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	32.22	32.28	32.35	33.50	29.41	29.42	29.31	30.50	
GPRS 1Tx Slot	32.20	32.30	32.36	33.50	29.36	29.40	29.30	30.50	
GPRS 2Tx Slot	28.87	29.02	29.11	30.00	25.75	25.89	25.96	26.70	
GPRS 3Tx Slot	27.41	27.56	27.67	28.50	23.92	24.10	24.22	25.00	
GPRS 4Tx Slot	26.40	26.51	26.64	27.50	22.95	23.13	23.28	24.00	
EDGE 1Tx Slot	26.96	27.01	26.97	28.00	25.83	26.08	26.11	27.00	
EDGE 2Tx Slot	23.52	23.82	23.69	25.00	22.81	22.98	23.14	24.00	
EDGE 3Tx Slot	21.77	22.04	21.91	23.00	20.96	21.23	21.37	22.00	
EDGE 4Tx Slot	20.96	21.00	20.99	22.00	19.99	20.04	20.20	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	
GSM	23.22	23.28	23.35	24.50	20.41	20.42	20.31	21.50
GPRS 1Tx Slot	23.20	23.30	23.36	24.50	20.36	20.40	20.30	21.50
GPRS 2Tx Slot	22.87	23.02	23.11	24.00	19.75	19.89	19.96	20.70
GPRS 3Tx Slot	23.15	23.30	23.41	24.24	19.66	19.84	19.96	20.74
GPRS 4Tx Slot	23.40	23.51	23.64	24.50	19.95	20.13	20.28	21.00
EDGE 1Tx Slot	17.96	18.01	17.97	19.00	16.83	17.08	17.11	18.00
EDGE 2Tx Slot	17.52	17.82	17.69	19.00	16.81	16.98	17.14	18.00
EDGE 3Tx Slot	17.51	17.78	17.65	18.74	16.70	16.97	17.11	17.74
EDGE 4Tx Slot	17.96	18.00	17.99	19.00	16.99	17.04	17.20	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)	
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	24.42	24.45	24.35	25.50	24.61	24.63	24.69	25.50	24.72	24.69	24.67	25.50
HSDPA Subtest-1	23.59	23.60	23.46	24.00	23.72	23.81	23.75	24.00	23.79	23.75	23.83	24.00
HSDPA Subtest-2	23.59	23.60	23.49	24.00	23.79	23.77	23.70	24.00	23.76	23.80	23.79	24.00
HSDPA Subtest-3	23.05	23.10	22.98	24.00	23.24	23.30	23.29	24.00	23.32	23.34	23.33	24.00
HSDPA Subtest-4	23.12	23.07	23.04	24.00	23.32	23.35	23.37	24.00	23.35	23.33	23.28	24.00
DC-HSDPA Subtest-1	23.54	23.59	23.49	24.00	23.82	23.78	23.78	24.00	23.86	23.82	23.86	24.00
DC-HSDPA Subtest-2	23.54	23.57	23.47	24.00	23.80	23.83	23.88	24.00	23.91	23.88	23.86	24.00
DC-HSDPA Subtest-3	23.04	23.14	22.97	24.00	23.30	23.30	23.33	24.00	23.31	23.32	23.33	24.00
DC-HSDPA Subtest-4	23.07	23.12	23.01	24.00	23.30	23.28	23.38	24.00	23.36	23.33	23.35	24.00
HSUPA Subtest-1	21.74	21.75	21.72	23.00	21.93	21.97	22.09	23.00	22.11	21.99	22.00	23.00
HSUPA Subtest-2	21.50	21.47	21.41	23.00	21.63	21.66	21.74	23.00	21.74	21.79	21.77	23.00
HSUPA Subtest-3	22.33	22.37	22.26	23.00	22.54	22.61	22.65	23.00	22.68	22.61	22.64	23.00
HSUPA Subtest-4	21.12	21.07	21.01	23.00	21.28	21.32	21.28	23.00	21.68	21.58	21.56	23.00
HSUPA Subtest-5	22.36	22.36	22.29	23.00	22.59	22.56	22.66	23.00	22.63	22.59	22.62	23.00
HSPA+ Subtest-1	21.65	21.69	21.54	23.00	21.91	21.87	21.94	23.00	22.00	21.89	21.93	23.00

GSM&WCDMA_DSI3&4

Ant1

Band	GSM850				GSM1900			
	Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8	
GSM	32.22	32.28	32.35	33.50	29.41	29.42	29.31	30.50
GPRS 1Tx Slot	32.20	32.30	32.36	33.50	29.36	29.40	29.30	30.50
GPRS 2Tx Slot	28.87	29.02	29.11	30.00	25.75	25.89	25.96	26.70
GPRS 3Tx Slot	27.41	27.56	27.67	28.50	23.92	24.10	24.22	25.00
GPRS 4Tx Slot	26.40	26.51	26.64	27.50	22.95	23.13	23.28	24.00
EDGE 1Tx Slot	26.96	27.01	26.97	28.00	25.83	26.08	26.11	27.00
EDGE 2Tx Slot	23.52	23.82	23.69	25.00	22.81	22.98	23.14	24.00
EDGE 3Tx Slot	21.77	22.04	21.91	23.00	20.96	21.23	21.37	22.00
EDGE 4Tx Slot	20.96	21.00	20.99	22.00	19.99	20.04	20.20	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	
GSM	23.22	23.28	23.35	24.50	20.41	20.42	20.31	21.50
GPRS 1Tx Slot	23.20	23.30	23.36	24.50	20.36	20.40	20.30	21.50
GPRS 2Tx Slot	22.87	23.02	23.11	24.00	19.75	19.89	19.96	20.70
GPRS 3Tx Slot	23.15	23.30	23.41	24.24	19.66	19.84	19.96	20.74
GPRS 4Tx Slot	23.40	23.51	23.64	24.50	19.95	20.13	20.28	21.00
EDGE 1Tx Slot	17.96	18.01	17.97	19.00	16.83	17.08	17.11	18.00
EDGE 2Tx Slot	17.52	17.82	17.69	19.00	16.81	16.98	17.14	18.00
EDGE 3Tx Slot	17.51	17.78	17.65	18.74	16.70	16.97	17.11	17.74
EDGE 4Tx Slot	17.96	18.00	17.99	19.00	16.99	17.04	17.20	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)	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	Max. Tune-up Power (dBm)
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	21.80	21.87	21.76	23.00	21.36	21.48	21.56	22.50	24.72	24.69	24.67	25.50
HSDPA Subtest-1	21.04	21.08	20.87	21.50	20.62	20.67	20.60	21.00	23.79	23.75	23.83	24.00
HSDPA Subtest-2	21.01	21.05	20.99	21.50	20.69	20.60	20.54	21.00	23.76	23.80	23.79	24.00
HSDPA Subtest-3	20.46	20.54	20.38	21.50	20.15	20.27	20.04	21.00	23.32	23.34	23.33	24.00
HSDPA Subtest-4	20.46	20.40	20.36	21.50	20.17	20.12	20.20	21.00	23.35	23.33	23.28	24.00
DC-HSDPA Subtest-1	20.88	21.03	21.05	21.50	20.76	20.73	20.68	21.00	23.86	23.82	23.86	24.00
DC-HSDPA Subtest-2	21.06	21.06	21.02	21.50	20.59	20.67	20.67	21.00	23.91	23.88	23.86	24.00
DC-HSDPA Subtest-3	20.42	20.47	20.39	21.50	20.12	20.10	20.16	21.00	23.31	23.32	23.33	24.00
DC-HSDPA Subtest-4	20.55	20.55	20.41	21.50	20.19	20.16	20.20	21.00	23.36	23.33	23.35	24.00
HSUPA Subtest-1	19.19	19.11	19.14	20.50	18.74	18.84	18.82	20.00	22.11	21.99	22.00	23.00
HSUPA Subtest-2	18.91	18.95	18.88	20.50	18.49	18.40	18.58	20.00	21.74	21.79	21.77	23.00
HSUPA Subtest-3	19.77	19.88	19.62	20.50	19.45	19.48	19.44	20.00	22.68	22.61	22.64	23.00
HSUPA Subtest-4	18.68	18.73	18.65	20.50	18.37	18.21	18.28	20.00	21.68	21.58	21.56	23.00
HSUPA Subtest-5	19.86	19.78	19.80	20.50	19.53	19.50	19.49	20.00	22.63	22.59	22.62	23.00
HSPA+ Subtest-1	18.98	19.08	19.01	20.50	18.65	18.77	18.70	20.00	22.00	21.89	21.93	23.00

LTE_DSI-1 Ant1

		LTE Band 2					
BW	Modulation	Channel		Low	Mid	High	Max. Tune-up (dBm)
		RB Size	RB Offset				
20M	QPSK	1	0	24.18	24.14	24.14	25.5
		1	50	24.43	24.42	24.82	25.5
		1	99	24.17	24.12	24.15	25.5
		50	0	23.45	23.47	23.55	24.5
		50	25	23.63	23.49	23.57	24.5
		50	50	23.44	23.46	23.41	24.5
	16QAM	100	0	23.47	23.48	23.52	24.5
		1	0	23.54	23.38	23.42	24.5
		1	50	23.87	23.77	23.86	24.5
		1	99	23.44	23.46	23.37	24.5
		50	0	22.52	22.51	22.54	23.5
		50	25	22.64	22.56	22.53	23.5
64QAM	100	0	22.51	22.54	22.47	23.5	
	1	0	22.85	22.81	22.38	23.5	
	1	50	22.72	22.76	22.82	23.5	
	1	99	22.38	22.37	22.44	23.5	
	50	0	21.49	21.54	21.54	22.5	
	50	25	21.53	21.53	21.57	22.5	
15M	QPSK	1	0	23.49	23.32	23.38	24.5
		1	37	23.38	23.31	23.26	24.5
		1	74	24.04	24.01	24.11	25.5
		36	0	23.38	23.45	23.46	24.5
		36	19	23.51	23.34	23.49	24.5
		36	39	23.32	23.59	23.36	24.5
	16QAM	75	0	23.43	23.41	23.35	24.5
		1	0	23.49	23.32	23.38	24.5
		1	37	23.38	23.35	23.27	24.5
		1	74	23.38	23.31	23.26	24.5
		36	0	22.38	22.36	22.51	23.5
		36	19	22.51	22.49	22.41	23.5
64QAM	36	39	22.39	22.58	22.34	23.5	
	75	0	22.43	22.39	22.45	23.5	
	1	0	22.32	22.37	22.35	23.5	
	1	37	22.89	22.86	22.80	23.5	
	1	74	22.37	22.31	22.29	23.5	
	36	0	21.42	21.44	21.42	22.5	
10M	QPSK	1	0	23.49	23.32	23.38	24.5
		1	24	24.36	24.33	24.39	25.5
		1	49	24.11	24.02	24.07	25.5
		25	0	23.38	23.37	23.51	24.5
		25	12	23.45	23.34	23.50	24.5
		25	25	23.32	23.58	23.34	24.5
	16QAM	50	0	23.43	23.35	23.31	24.5
		1	24	23.80	23.62	23.60	24.5
		1	49	23.38	23.42	23.23	24.5
		25	0	22.47	22.42	22.43	23.5
		25	12	22.51	22.41	22.41	23.5
		25	25	22.43	22.62	22.33	23.5
64QAM	50	0	22.43	22.53	22.35	23.5	
	1	0	22.33	22.34	22.27	23.5	
	1	24	22.67	22.62	22.53	23.5	
	1	49	22.37	22.32	22.39	23.5	
	25	0	21.41	21.49	21.50	22.5	
	25	12	21.41	21.43	21.50	22.5	
5M	QPSK	50	0	21.38	21.42	21.39	22.5
		1	0	24.04	24.02	23.99	25.5
		1	24	24.36	24.33	24.39	25.5
		1	49	24.11	24.02	24.07	25.5
		25	0	23.38	23.37	23.51	24.5
		25	12	23.45	23.34	23.50	24.5
	16QAM	25	25	23.32	23.58	23.34	24.5
		50	0	23.43	23.35	23.31	24.5
		1	24	23.80	23.62	23.60	24.5
		1	49	23.38	23.42	23.23	24.5
		25	0	22.47	22.42	22.43	23.5
		25	12	22.51	22.41	22.41	23.5
64QAM	25	25	22.43	22.62	22.33	23.5	
	50	0	22.43	22.53	22.35	23.5	
	1	0	22.33	22.34	22.27	23.5	
	1	24	22.67	22.62	22.53	23.5	
	1	49	22.37	22.32	22.39	23.5	
	25	0	21.41	21.49	21.50	22.5	
3M	QPSK	25	12	21.41	21.43	21.50	22.5
		25	25	21.38	21.47	21.31	22.5
		25	0	21.37	21.45	21.43	22.5
		1	0	23.66	23.61	23.67	25.5
		1	12	23.95	24.17	24.04	25.5
		1	24	24.08	23.97	24.08	25.5
	16QAM	12	0	23.43	23.35	23.46	24.5
		12	6	23.41	23.43	23.44	24.5
		12	13	23.30	23.58	23.36	24.5
		25	0	23.44	23.37	23.43	24.5
		1	0	23.48	23.28	23.32	24.5
		1	12	23.77	23.72	23.64	24.5
64QAM	1	24	23.38	23.42	23.34	24.5	
	12	0	22.51	22.47	22.52	23.5	
	12	6	22.60	22.43	22.52	23.5	
	12	13	22.41	22.57	22.33	23.5	
	25	0	22.38	22.47	22.38	23.5	
	1	0	22.40	22.36	22.23	23.5	
1.4M	QPSK	1	12	22.61	22.65	22.47	23.5
		1	24	22.37	22.29	22.30	23.5
		12	0	21.47	21.40	21.44	22.5
		12	6	21.50	21.41	21.50	22.5
		12	13	21.40	21.50	21.24	22.5
		25	0	21.44	21.49	21.34	22.5
	16QAM	1	0	24.04	24.04	24.10	25.5
		1	5	24.04	24.00	24.10	25.5
		3	0	24.24	24.23	24.36	25.5
		3	1	24.29	24.23	24.24	25.5
		3	3	24.21	24.30	24.18	25.5
		6	0	23.38	23.33	23.50	24.5
64QAM	1	0	23.51	23.32	23.29	24.5	
	1	3	23.86	23.64	23.60	24.5	
	1	5	23.39	23.32	23.23	24.5	
	3	0	23.22	23.27	23.35	24.5	
	3	1	23.31	23.23	23.32	24.5	
	3	3	23.27	23.42	23.08	24.5	
1.4M	QPSK	6	0	22.42	22.48	22.44	23.5
		1	0	22.43	22.26	22.27	23.5
		1	2	22.70	22.63	22.53	23.5
		1	5	22.35	22.22	22.31	23.5
		3	0	22.21	22.31	22.29	23.5
		3	1	22.31	22.21	22.29	23.5
	16QAM	3	3	22.17	22.32	22.05	23.5
		6	0	21.40	21.50	21.39	22.5
		1	0	23.62	23.57	23.67	25.5
		1	12	23.91	24.13	24.00	25.5
		1	24	24.04	23.93	24.04	25.5
		12	0	23.43	23.35	23.46	24.5
1.4M	QPSK	12	6	23.41	23.43	23.44	24.5
		12	13	23.30	23.58	23.36	24.5
		25	0	23.44	23.37	23.43	24.5
		1	0	23.48	23.28	23.32	24.5
		1	12	23.77	23.72	23.64	24.5
		1	24	23.38	23.42	23.34	24.5
	16QAM	12	0	22.51	22.47	22.52	23.5
		12	6	22.60	22.43	22.52	23.5
		12	13	22.41	22.57	22.33	23.5
		25	0	22.38	22.47	22.38	23.5
		1	0	22.40	22.36	22.23	23.5
		1	12	22.61	22.65	22.47	23.5
64QAM	1	24	22.37	22.29	22.30	23.5	
	12	0	21.47	21.40	21.44	22.5	
	12	6	21.50	21.41	21.50	22.5	
	12	13	21.40	21.50	21.24	22.5	
	25	0	21.44	21.49	21.34	22.5	
	1	0	23.66	23.61	23.67	25.5	
1.4M	QPSK	1	0	23.62	23.57	23.67	25.5
		1	12	23.95	24.17	24.04	25.5
		1	24	24.08	23.97	24.08	25.5
		12	0	23.43	23.35	23.46	24.5
		12	6	23.41	23.43	23.44	24.5
		12	13	23.30	23.58	23.36	24.5
	16QAM	25	0	23.44	23.37	23.43	24.5
		1	0	23.48	23.28	23.32	24.5
		1	12	23.77	23.72	23.64	24.5
		1	24	23.38	23.42	23.34	24.5
		12	0	22.51	22.47	22.52	23.5
		12	6	22.60	22.43	22.52	23.5
64QAM	12	13	22.41	22.57	22.33	23.5	
	25	0	22.38	22.47	22.38	23.5	
	1	0	22.40	22.36	22.23	23.5	
	1	12	22.61	22.65	22.47	23.5	
	1	24	22.37	22.29	22.30	23.5	
	12	0	21.47	21.40	21.44	22.5	
1.4M	QPSK	12	6	21.50	21.41	21.50	22.5
		12	13	21.40	21.50	21.24	22.5
		25	0	21.44	21.49	21.34	22.5
		1	0	23.66	23.61	23.67	25.5
		1	12	23.95	24.17	24.04	25.5
		1	24	24.08	23.97	24.08	25.5
	16QAM	12	0	23.43	23.35	23.46	24.5
		12	6	23.41	23.43	23.44	24.5
		12	13	23.30	23.58	23.36	24.5
		25	0	23.44	23.37	23.43	24.5
		1	0	23.48	23.28	23.32	24.5
		1	12	23.77	23.72	23.64	24.5
64QAM	1	24	23.38	23.42	23.34	24.5	
	12	0	22.51	22.47	22.52	23.5	
	12	6	22.60	22.43	22.52	23.5	
	12	13	22.41	22.57	22.33	23.5	
	25	0	22.38	22.47	22.38	23.5	
	1	0	22.40	22.36	22.23	23.5	
1.4M	QPSK	1	12	22.61	22.65	22.47	23.5
		1	24	22.37	22.29	22.30	23.5
		12	0	21.47	21.40	21.44	22.5
		12	6	21.50	21.41	21.50	22.5
		12	13	21.40	21.50	21.24	22.5
		2					

LTE Band 7									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)		
		Channel	2885	2985	3100	3150			
20M	QPSK	1	0	22.85	22.57	22.60	24		
		1	50	23.24	22.96	23.96	24		
		1	99	22.77	22.41	22.74	24		
		50	0	22.68	22.56	22.63	24		
		50	25	22.86	22.67	22.82	24		
		50	50	22.78	22.51	22.64	24		
		100	0	22.78	22.41	22.77	24		
		1	0	22.68	22.45	22.59	24		
		1	50	23.10	22.84	22.77	24		
		1	99	22.66	22.48	22.84	24		
		50	0	21.81	21.51	21.82	23		
		50	25	22.04	21.85	21.76	23		
	50	50	21.92	21.42	21.71	23			
	100	0	21.89	21.59	21.75	23			
	16QAM	1	0	22.04	21.93	21.34	23		
		1	50	22.28	22.07	21.70	23		
		1	99	21.91	21.85	21.46	23		
		50	0	20.79	20.67	20.79	22		
		50	25	21.06	21.00	20.97	22		
		50	50	20.98	20.96	20.78	22		
		100	0	21.00	20.95	20.84	22		
		64QAM	1	0	22.28	22.07	21.70	23	
			1	50	21.91	21.85	21.46	23	
			50	0	20.79	20.67	20.79	22	
			50	25	21.06	21.00	20.97	22	
			50	50	20.98	20.96	20.78	22	
	100		0	21.00	20.95	20.84	22		
	15M		QPSK	1	0	22.75	22.42	22.59	24
				1	37	23.19	22.87	22.86	24
				1	74	22.74	22.30	22.68	24
				36	0	22.57	22.41	22.59	24
				36	19	22.75	22.65	22.76	24
				36	39	22.76	22.45	22.57	24
		75		0	22.73	22.40	22.75	24	
		1		0	22.60	22.30	22.84	24	
		1		37	23.02	22.83	22.71	24	
1		74		22.61	22.37	22.77	24		
36		0		21.77	21.50	21.68	23		
36		19		22.01	21.51	21.70	23		
36		39	21.77	21.33	21.64	23			
75		0	21.85	21.50	21.54	23			
16QAM		1	0	21.96	21.84	21.24	23		
		1	37	22.13	21.96	21.61	23		
		1	74	21.76	21.76	21.35	23		
		36	0	20.72	20.75	20.66	22		
		36	19	20.94	21.08	20.85	22		
		36	39	20.94	20.95	20.79	22		
		75	0	20.88	20.90	20.70	22		
		64QAM	1	0	21.96	21.84	21.24	23	
			1	37	22.13	21.96	21.61	23	
			1	74	21.76	21.76	21.35	23	
			36	0	20.72	20.75	20.66	22	
			36	19	20.94	21.08	20.85	22	
36			39	20.94	20.95	20.79	22		
75			0	20.88	20.90	20.70	22		
10M			QPSK	1	0	22.75	22.56	22.53	24
				1	24	23.09	22.80	22.85	24
				1	49	22.70	22.30	22.64	24
				25	0	22.66	22.41	22.69	24
				25	12	22.85	22.65	22.67	24
		25		25	22.74	22.39	22.55	24	
		50		0	22.66	22.39	22.65	24	
		16QAM		1	0	22.66	22.36	22.48	24
	1			24	23.03	22.71	22.71	24	
	1			49	22.63	22.38	22.62	24	
	25			0	21.68	21.45	21.80	23	
	25			12	21.96	21.64	21.73	23	
	25		25	21.79	21.27	21.61	23		
	50		0	21.77	21.49	21.60	23		
	64QAM		1	0	22.01	21.83	21.39	23	
			1	24	22.24	21.98	21.61	23	
			1	49	21.79	21.75	21.42	23	
			25	0	20.67	20.79	20.71	22	
			25	12	20.99	21.00	20.89	22	
		25	25	20.89	20.91	20.70	22		
		50	0	20.87	20.87	20.75	22		
		5M	QPSK	1	0	22.74	22.56	22.58	24
				1	12	23.20	22.82	22.87	24
				1	24	22.82	22.26	22.85	24
				12	0	22.87	22.49	22.50	24
				12	6	22.80	22.54	22.81	24
	12			13	22.68	22.40	22.54	24	
	25			0	22.71	22.28	22.73	24	
	16QAM			1	0	22.63	22.31	22.47	24
				1	12	23.09	22.80	22.67	24
				1	24	22.51	22.38	22.75	24
				12	0	21.76	21.40	21.75	23
				12	6	21.89	21.51	21.75	23
			12	13	21.79	21.34	21.58	23	
			25	0	21.85	21.52	21.69	23	
			64QAM	1	0	22.02	21.83	21.23	23
1				12	22.22	21.92	21.61	23	
1				24	21.82	21.82	21.33	23	
12				0	20.78	20.72	20.72	22	
12				6	20.98	20.96	20.83	22	
12	13			20.84	20.91	20.65	22		
25	0			20.92	20.82	20.72	22		

LTE Band 13									
BW	Modulation	RB Size	RB Offset	Mid	Max. Tune-up (dBm)				
		Channel	782	2329					
10M	QPSK	1	0	24.45	25.5				
		1	24	24.54	25.5				
		1	49	24.40	25.5				
		25	0	23.51	24.5				
		25	12	23.63	24.5				
		25	25	23.59	24.5				
		50	0	23.53	24.5				
		16QAM	1	0	23.46	24.5			
			1	24	23.74	24.5			
			1	49	23.56	24.5			
			25	0	22.51	23.5			
			25	12	22.52	23.5			
	25		25	22.49	23.5				
	50		0	22.55	23.5				
	64QAM		1	0	22.58	23.5			
			1	24	22.78	23.5			
			1	49	22.59	23.5			
			25	0	21.49	22.5			
			25	12	21.48	22.5			
		25	25	21.47	22.5				
		50	0	21.51	22.5				
		5M	QPSK	1	0	24.35	24.30	24.42	25.5
				1	12	24.53	24.42	24.48	25.5
				1	24	24.37	24.35	24.28	25.5
				12	0	23.37	23.40	23.41	24.5
				12	6	23.50	23.51	23.49	24.5
	12			13	23.54	23.45	23.50	24.5	
	25			0	23.48	23.51	23.42	24.5	
	16QAM			1	0	23.36	23.35	23.44	24.5
				1	12	23.73	23.73	23.70	24.5
				1	24	23.45	23.42	23.44	24.5
				12	0	22.41	22.49	22.45	23.5
				12	6	22.45	22.44	22.39	23.5
			12	13	22.38	22.37	22.41	23.5	
			25	0	22.49	22.40	22.53	23.5	
			64QAM	1	0	22.45	22.54	22.43	23.5
1				12	22.73	22.67	22.72	23.5	
1				24	22.45	22.46	22.50	23.5	
12				0	21.40	21.38	21.44	22.5	
12				6	21.39	21.44	21.38	22.5	
12	13			21.39	21.44	21.38	22.5		
25	0			21.39	21.47	21.47	22.5		

LTE Band 26									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)		
		Channel	815.5	831.5	2665	2665			
15M	QPSK	1	0	24.42	24.36	24.49	25.5		
		1	37	24.68	24.66	24.64	25.5		
		1	74	24.43	24.41	24.36	25.5		
		36	0	23.52	23.54	23.55	24.5		
		36	19	23.61	23.58	23.57	24.5		
		36	39	23.49	23.57	23.54	24.5		
		75	0	23.56	23.54	23.55	24.5		
		16QAM	1	0	23.59	23.65	23.56	24.5	
			1	37	23.82	23.78	23.87	24.5	
			1	74	23.67	23.70	23.66	24.5	
			36	0	22.55	22.64	22.54	23.5	
			36	19	22.60	22.62	22.56	23.5	
	36		39	22.52	22.65	22.57	23.5		
	75		0	22.54	22.67	22.58	23.5		
	64QAM		1	0	22.73	22.83	22.84	23.5	
			1	37	22.90	22.81	22.86	23.5	
			1	74	22.64	22.56	22.67	23.5	
			36	0	21.53	21.61	21.58	22.5	
			36	19	21.61	21.62	21.58	22.5	
		36	39	21.53	21.58	21.52	22.5		
		75	0	21.51	21.51	21.53	22.5		
		10M	QPSK	1	0	24.39	24.31	24.35	25.5
				1	24	24.57	24.53	24.55	25.5
				1	49	24.36	24.28	24.27	25.5
				25	0	23.50	23.57	23.50	24.5
				25	12	23.43	23.53	23.53	24.5
	25			25	23.43	23.45	23.40	24.5	
	50			0	23.37	23.49	23.46	24.5	
	16QAM			1	0	23.53	23.59	23.51	24.5
				1	24	23.75	23.75	23.83	24.5
				1	49	23.57	23.69	23.56	24.5
				25	0	22.40	22.56	22.43	23.5
				25	12	22.59	22.59	22.55	23.5
			25	25	22.48	22.52	22.44	23.5	
			50	0	22.53	22.59	22.51	23.5	
			64QAM	1	0	22.58	22.60	22.60	23.5
1				24	22.88	22.76	22.76	23.5	
1				49	22.50	22.50	22.53	23.5	
25				0	21.50	21.58	21.48	22.5	
25				12	21.53	21.58	21.47	22.5	
25	25			21.47	21.51	21.42	22.5		
50	0			21.36	21.53	21.38	22.5		
5M	QPSK			1	0	24.37	24.30	24.47	25.5
				1	12	24.58	24.56	24.60	25.5
				1	24	24.40	24.37	24.25	25.5
				12	0</				

LTE Band 38								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. T-adj (dBm)	
		Channel	Frequency (MHz)	2585	2586	2587		
QPSK	15M	1	0	23.87	23.95	23.85	25	
		1	50	24.25	24.22	25	25	
		1	99	23.95	23.92	23.95	25	
		50	0	23.87	23.15	23.15	24	
		50	50	23.07	23.11	23.08	24	
	100	0	23.07	23.12	23.10	24		
	20M	16QAM	1	0	22.95	23.02	22.71	24
			1	50	23.30	23.23	23.10	24
			1	99	22.88	22.78	22.73	24
			50	0	22.03	22.01	22.18	23
50			25	22.13	22.11	22.14	23	
64QAM	15M	1	0	21.78	21.85	21.61	23	
		1	50	22.00	22.27	21.93	23	
		1	99	21.62	21.63	21.52	23	
		50	0	20.96	20.94	21.04	22	
		50	25	21.06	20.97	21.05	22	
	100	0	20.97	20.94	20.95	22		
	BW	QPSK	Channel	37825	38000	38175	Max. T-adj (dBm)	
			Frequency (MHz)	2585	2586	2587	25	
			1	37	24.22	24.23	24.19	25
			1	74	23.89	23.77	23.88	25
36			0	22.94	23.10	23.11	24	
15M		16QAM	1	0	22.92	22.91	22.92	24
			1	37	22.26	22.27	22.03	24
			1	74	22.82	22.83	22.66	24
			36	0	21.96	21.89	22.07	23
			36	19	22.12	22.12	22.13	23
	64QAM	1	0	21.77	21.84	21.57	23	
		1	37	21.88	22.20	21.85	23	
		1	74	21.51	21.57	21.75	23	
		36	0	20.85	20.82	20.99	22	
		36	19	21.02	20.94	20.93	22	
BW	QPSK	Channel	37850	38000	38200	Max. T-adj (dBm)		
		Frequency (MHz)	2585	2586	2587	25		
		1	24	24.17	24.28	24.14	25	
		1	49	23.91	23.83	23.87	25	
		25	0	22.90	22.99	23.10	24	
	10M	16QAM	1	0	22.92	23.00	22.68	24
			1	24	23.28	23.28	22.99	24
			1	49	22.74	22.68	22.66	24
			25	0	21.89	21.97	22.14	23
			25	12	21.98	21.98	22.10	23
64QAM		1	0	21.72	21.99	21.53	23	
		1	24	21.99	22.24	21.91	23	
		1	49	21.57	21.54	21.53	23	
		25	0	20.90	20.92	21.03	22	
		25	12	20.94	20.98	21.03	22	
BW	QPSK	Channel	37775	38000	38225	Max. T-adj (dBm)		
		Frequency (MHz)	2585	2586	2587	25		
		1	12	24.21	24.23	24.09	25	
		1	24	23.80	23.83	23.81	25	
		12	0	23.01	23.05	23.12	24	
	5M	16QAM	1	0	22.83	22.93	22.66	24
			1	12	23.28	23.28	22.97	24
			1	24	22.74	22.73	22.67	24
			12	0	21.97	21.92	22.04	23
			12	6	21.99	21.97	22.00	23
64QAM		1	0	21.88	21.98	21.98	23	
		1	12	21.98	21.99	21.53	23	
		1	24	21.55	21.51	21.69	23	
		12	0	20.92	20.95	21.00	22	
		12	6	20.90	20.87	21.01	22	

LTE Band 41 (2486 - 2680MHz)										
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High	Max. T-adj (dBm)		
		Channel	Frequency (MHz)	2678 <th>2681 <th>2682 <th>2685 </th></th></th>	2681 <th>2682 <th>2685 </th></th>	2682 <th>2685 </th>	2685			
QPSK	15M	1	0	23.73	23.75	23.75	23.81	23.74	25	
		1	50	24.04	24.02	24.06	23.97	25		
		1	99	23.72	23.75	23.64	23.65	23.61	25	
		50	0	22.76	23.01	22.97	22.78	23		
		50	25	22.90	23.08	22.81	22.93	22.84	24	
	20M	16QAM	1	0	22.70	22.89	22.72	22.84	22.68	24
			1	50	22.92	23.10	22.84	22.99	22.87	24
			1	99	22.70	22.96	22.78	22.85	22.76	24
			50	0	21.73	21.73	21.78	21.90	21.73	23
			50	25	21.82	22.10	21.82	21.97	21.83	23
64QAM	15M	1	0	21.66	21.53	21.68	21.42	21.56	23	
		1	50	21.71	21.80	21.57	21.64	21.56	23	
		1	99	21.59	21.37	21.58	21.28	21.63	23	
		50	0	20.72	21.02	20.78	20.82	20.83	22	
		50	25	20.89	21.05	20.81	20.88	20.85	22	
	20M	16QAM	1	0	20.88	20.88	20.73	20.84	20.69	22
			1	50	20.87	21.06	20.74	20.88	20.79	22
			1	99	20.75	20.75	20.75	20.75	20.75	22
			50	0	19.78	20.02	19.78	19.94	19.78	21
			50	25	19.82	20.05	19.78	19.94	19.78	21
BW	QPSK	Channel	46715	46715	46820	46815	Max. T-adj (dBm)			
		Frequency (MHz)	2678	2681	2682	2685	25			
		1	37	23.63	23.62	23.68	23.80	23.63	25	
		1	74	23.99	24.13	23.89	23.91	23.82	25	
		36	0	22.67	22.68	22.71	22.81	22.76	24	
	15M	16QAM	1	0	22.78	22.78	22.77	22.88	22.74	24
			1	36	22.88	22.88	22.81	22.78	22.65	24
			1	75	22.79	23.08	22.77	22.90	22.82	24
			36	0	22.63	22.62	22.65	22.75	22.70	24
			36	19	22.10	22.10	22.09	22.09	22.09	24
64QAM		1	0	21.80	22.01	21.77	21.91	21.76	23	
		1	36	21.87	22.06	21.78	21.85	21.79	23	
		1	75	21.51	21.97	21.68	21.84	21.70	23	
		36	0	21.60	21.60	21.60	21.60	21.60	23	
		36	19	21.62	21.67	21.57	21.57	21.42	23	
BW	QPSK	Channel	46715	46820	46820	46815	Max. T-adj (dBm)			
		Frequency (MHz)	2678	2681	2682	2685	25			
		1	24	24.02	24.21	23.95	24.00	23.88	25	
		1	49	23.62	23.62	23.59	23.52	23.57	25	
		25	0	22.66	22.68	22.74	22.80	22.77	24	
	10M	16QAM	1	0	22.88	23.02	22.66	22.87	22.76	24
			1	25	22.85	22.89	22.75	22.76	22.62	24
			1	50	22.88	23.00	22.83	22.85	22.80	24
			1	0	22.61	22.84	22.65	22.82	22.69	24
			1	24	23.01	23.12	22.89	23.03	22.88	24
64QAM		1	0	21.88	21.88	21.88	21.88	21.88	23	
		1	49	21.66	21.70	21.67	21.66	21.66	23	
		25	0	21.73	21.98	21.78	21.89	21.76	23	
		25	12	21.83	21.99	21.82	21.89	21.80	23	
		25	25	21.88	21.95	21.66	21.83	21.58	23	
BW	QPSK	Channel	46815	46820	46920	46915	Max. T-adj (dBm)			
		Frequency (MHz)	2678	2681	2682	2685	25			
		1	12	23.71	23.87	23.63	23.70	23.62	25	
		1	24	24.02	24.21	23.95	24.00	23.88	25	
		12	0	22.66	22.68	22.74	22.80	22.77	24	
	5M	16QAM	1	0	22.88	23.02	22.66	22.87	22.76	24
			1	25	22.85	22.89	22.75	22.76	22.62	24
			1	50	22.88	23.00	22.83	22.85	22.80	24
			1	0	22.61	22.84	22.65	22.82	22.69	24
			1	24	23.01	23.12	22.89	23.03	22.88	24
64QAM		1	0	21.88	21.88	21.88	21.88	21.88	23	
		1	49	21.66	21.70	21.67	21.66	21.66	23	
		25	0	21.73	21.98	21.78	21.89	21.76	23	
		25	12	21.83	21.99	21.82	21.89	21.80	23	
		25	25	21.88	21.95	21.66	21.83	21.58	23	
BW	QPSK	Channel	46915	46920	47020	47015	Max. T-adj (dBm)			
		Frequency (MHz)	2678	2681	2682	2685	25			
		1	12	23.71	23.87	23.63	23.70	23.62	25	
		1	24	24.02	24.21	23.95	24.00	23.88	25	
		12	0	22.66	22.68	22.74	22.80	22.77	24	
	3M	16QAM	1	0	22.88	23.02	22.66	22.87	22.76	24
			1	12	23.01	23.12	22.89	23.03	22.88	24
			1	24	23.01	23.12	22.89	23.03	22.88	24
			12	0	21.88	21.88	21.88	21.88	21.88	23
			12	6	21.78	22.07	21.75	21.89	21.75	23
64QAM		1	0	21.88	21.88	21.88	21.88	21.88	23	
		1	12	21.88	21.88	21.88	21.88	21.88	23	
		1	24	21.66	21.70	21.67	21.66	21.66	23	
		12	0	21.88	21.88	21.88	21.88	21.88	23	
		12	6	20.95	21.04	20.78	20.87	20.74	22	

LTE Band 66								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. T-adj (dBm)	
		Channel	Frequency (MHz)	1745	1746	1747		
QPSK	15M	1	0	24.06	24.07	24.05	25.5	
		1	50	24.39	24.66	24.41	25.5	
		1	99	24.23	24.28	24.13	25.5	
		50	0	23.46	23.46	23.38	24.5	
		50	25	23.50	23.52	23.44	24.5	
	20M	16QAM	1	0	23.47	23.48	23.34	24.5
			1	50	23.44	23.47	23.41	24.5
			1	99	23.38	23.50	23.38	24.5
			50	0	22.43	22.45	22.34</	

LTE_DSI-2 Ant1

LTE Band 2										
BW	Modulation	RB Size		Low	Mid	High	Max. Time-up (dBm)	Channel		
		RB Offset	Channel					19700	19700	19700
20M	QPSK	1	50	24.13	24.14	24.14	25.5	24.13	24.14	
				24.43	24.42	24.42	25.5			
		1	99	24.17	24.12	24.15	25.5	24.17	24.12	
				23.45	23.47	23.55	24.5			
		50	25	23.52	23.49	23.57	24.5	23.52	23.49	
				23.44	23.41	23.45	24.5			
		100	0	23.47	23.48	23.52	24.5	23.47	23.48	
				23.54	23.38	23.42	24.5			
		1	50	23.87	23.77	23.66	24.5	23.87	23.77	
				23.44	23.45	23.37	24.5			
		1	99	22.38	22.37	22.44	23.5	22.38	22.37	
				22.64	22.56	22.53	23.5			
	50	50	22.49	22.86	22.37	23.5	22.49	22.86		
			22.51	22.54	22.47	23.5				
	100	0	22.45	22.41	22.38	23.5	22.45	22.41		
			22.72	22.76	22.62	23.5				
	1	99	22.38	22.37	22.44	23.5	22.38	22.37		
			21.49	21.54	21.54	22.5				
	50	25	21.53	21.83	21.57	22.5	21.53	21.83		
			21.43	21.59	21.37	22.5				
	100	0	21.45	21.55	21.44	22.5	21.45	21.55		
			19700	19700	19700	Max. Time-up (dBm)	19700	19700		
	15M	QPSK	1	0	24.03	24.07	24.07	25.5	24.03	24.07
					24.36	24.29	24.41	25.5		
1			74	24.04	24.01	24.11	25.5	24.04	24.01	
				23.38	23.45	23.46	24.5			
36			19	23.38	23.39	23.38	24.5	23.38	23.39	
				23.32	23.59	23.36	24.5			
75			0	23.43	23.41	23.35	24.5	23.43	23.41	
				23.49	23.32	23.35	24.5			
1			37	23.85	23.65	23.57	24.5	23.85	23.65	
				23.38	23.31	23.26	24.5			
1			74	23.38	23.31	23.26	24.5	23.38	23.31	
				22.38	22.42	22.41	23.5			
36		19	22.51	22.49	22.41	23.5	22.51	22.49		
			22.39	22.58	22.34	23.5				
75		0	22.43	22.39	22.45	23.5	22.43	22.39		
			22.52	22.37	22.25	23.5				
1		37	22.99	22.63	22.60	23.5	22.99	22.63		
			22.37	22.31	22.33	23.5				
1		74	22.37	22.31	22.33	23.5	22.37	22.31		
			21.42	21.44	21.42	22.5				
36		19	21.49	21.52	21.54	22.5	21.49	21.52		
			21.41	21.47	21.29	22.5				
75		0	21.38	21.32	21.39	22.5	21.38	21.32		
			19700	19700	19700	Max. Time-up (dBm)	19700	19700		
10M	QPSK	1	0	24.02	23.99	23.99	25.5	24.02	23.99	
				24.36	24.33	24.39	25.5			
		1	49	24.11	24.02	24.07	25.5	24.11	24.02	
				23.38	23.37	23.51	24.5			
		25	12	23.44	23.42	23.46	24.5	23.44	23.42	
				23.32	23.53	23.29	24.5			
		50	0	23.32	23.39	23.34	24.5	23.32	23.39	
				23.43	23.35	23.31	24.5			
		1	24	23.80	23.62	23.60	24.5	23.80	23.62	
				23.38	23.42	23.23	24.5			
		1	49	23.38	23.42	23.23	24.5	23.38	23.42	
				22.51	22.41	22.41	23.5			
	25	12	22.51	22.41	22.41	23.5	22.51	22.41		
			22.43	22.62	22.33	23.5				
	50	0	22.43	22.53	22.35	23.5	22.43	22.53		
			22.33	22.34	22.27	23.5				
	1	24	22.99	22.63	22.63	23.5	22.99	22.63		
			22.37	22.31	22.33	23.5				
	1	49	22.37	22.32	22.39	23.5	22.37	22.32		
			21.41	21.49	21.50	22.5				
	25	12	21.41	21.43	21.50	22.5	21.41	21.43		
			21.36	21.47	21.31	22.5				
	50	0	21.37	21.45	21.43	22.5	21.37	21.45		
			19700	19700	19700	Max. Time-up (dBm)	19700	19700		
5M	QPSK	1	0	24.01	24.01	23.99	25.5	24.01	24.01	
				24.37	24.31	24.42	25.5			
		1	24	24.09	23.97	24.03	25.5	24.09	23.97	
				23.43	23.35	23.46	24.5			
		12	6	23.43	23.46	23.51	24.5	23.43	23.46	
				23.30	23.58	23.36	24.5			
		12	13	23.44	23.37	23.43	24.5	23.44	23.37	
				23.48	23.28	23.32	24.5			
		1	12	23.77	23.72	23.64	24.5	23.77	23.72	
				23.38	23.42	23.34	24.5			
		1	24	23.38	23.42	23.34	24.5	23.38	23.42	
				22.51	22.47	22.52	23.5			
	12	6	22.60	22.43	22.52	23.5	22.60	22.43		
			22.41	22.57	22.33	23.5				
	25	0	22.38	22.47	22.38	23.5	22.38	22.47		
			22.40	22.36	22.23	23.5				
	1	12	22.61	22.63	22.67	23.5	22.61	22.63		
			22.37	22.29	22.30	23.5				
	1	24	22.37	22.29	22.30	23.5	22.37	22.29		
			21.40	21.40	21.44	22.5				
	12	6	21.50	21.41	21.50	22.5	21.50	21.41		
			21.40	21.50	21.24	22.5				
	25	0	21.44	21.42	21.41	22.5	21.44	21.42		
			19700	19700	19700	Max. Time-up (dBm)	19700	19700		
3M	QPSK	1	0	24.05	24.10	24.10	25.5	24.05	24.10	
				24.35	24.29	24.43	25.5			
		1	14	24.09	24.04	24.02	25.5	24.09	24.04	
				23.46	23.46	23.51	24.5			
		8	3	23.46	23.46	23.51	24.5	23.46	23.46	
				23.40	23.51	23.35	24.5			
		15	0	23.46	23.50	23.41	24.5	23.46	23.50	
				23.41	23.33	23.32	24.5			
		1	7	23.73	23.71	23.55	24.5	23.73	23.71	
				23.37	23.38	23.21	24.5			
		1	14	23.37	23.38	23.21	24.5	23.37	23.38	
				22.51	22.39	22.52	23.5			
	8	3	22.62	22.55	22.48	23.5	22.62	22.55		
			22.34	22.64	22.25	23.5				
	15	0	22.42	22.45	22.43	23.5	22.42	22.45		
			22.42	22.39	22.29	23.5				
	1	12	22.68	22.72	22.57	23.5	22.68	22.72		
			22.31	22.24	22.43	23.5				
	1	14	22.31	22.24	22.43	23.5	22.31	22.24		
			21.40	21.48	21.43	22.5				
	8	3	21.42	21.50	21.49	22.5	21.42	21.50		
			21.41	21.52	21.23	22.5				
	15	0	21.42	21.42	21.41	22.5	21.42	21.42		
			19700	19700	19700	Max. Time-up (dBm)	19700	19700		
1.4M	QPSK	1	0	24.04	24.04	24.10	25.5	24.04	24.04	
				24.36	24.40	24.46	25.5			
		1	5	24.04	23.98	24.10	25.5	24.04	23.98	
				24.24	24.22	24.26	25.5			
		3	1	24.29	24.23	24.24	25.5	24.29	24.23	
				24.21	24.30	24.18	25.5			
		6	0	23.38	23.33	23.50	24.5	23.38	23.33	
				23.51	23.32	23.29	24.5			
		1	2	23.86	23.65	23.60	24.5	23.86	23.65	
				23.36	23.35	23.23	24.5			
		3	0	23.22	23.27	23.35	24.5	23.22	23.27	
				23.31	23.23	23.32	24.5			
	3	3	23.27	23.42	23.08	24.5	23.27	23.42		
			22.42	22.48	22.44	23.5				
	6	0	22.43	22.39	22.27	23.5	22.43	22.39		
			22.70	22.63	22.53	23.5				
	1	5	22.35	22.22	22.31	23.5	22.35	22.22		
			22.21	22.31	22.29	23.5				
	3	1	22.31	22.21	22.29	23.5	22.31	22.21		
			22.17	22.32	22.05	23.5				
	6	0	21.40	21.50	21.39	22.5	21.40	21.50		
			19700	19700	19700	Max. Time-up (dBm)	19700	19700		

LTE Band 4									
BW	Modulation	RB Size		Low	Mid	High	Max. Time-up (dBm)	Channel	
		RB Offset	Channel					20950	20975
20M	QPSK	1	0	23.76	23.85	23.69	25.5	23.76	23.85
				24.09	24.19	24.10	25.5		
		1	99	23.90	23.95	23.88	25.5	23.90	23.95
				23.16	23.07	23.11	24.5		
		50	25	23.13	23.23	23.17	24.5	23.13	23.23
				23.14	23.18	23.21	24.5		
		100	0	22.98	23.24	23.20	24.5	22.98	23.24
				22.91	23.11	22.97	24.5		
		1	50	23.35	23.41	23.34	24.5	23.35	23.41
				23.26	23.14	22.95	24.5		
		1	99	22.00	22.02	22.02	23.5	22.00	22.02
				22.26	22.15	22.13	23.5		
	50	50	22.24	22.01	22.01	23.5	22.24	22.01	
			22.10	21.98	22.03	23.5			
	100	0	21.90	22.03	21.95	23.5	21.90	22.03	
			22.32	22.28	22.38	23.5			
	1	99	22.00	22.02	22.02	23.5	22.00	22.02	
			20.99	21.00	21.04	22.5			
	50	25	21.02	21.08	21.06	22.5	21.02	21.08	
			21.03	21.06	21.07	22.5			
	100	0	20.92	21.05	20.96	22.5	20.92	21.05	
			19750	19725	19745</				

LTE Band 7								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel		2880	2100	2130		
20M	QPSK	1	0	22.85	22.57	22.60	24	
		1	50	22.24	22.90	22.96	24	
		1	99	22.77	22.41	22.74	24	
		50	0	22.68	22.56	22.63	24	
		50	25	22.86	22.67	22.82	24	
		50	50	22.79	22.51	22.64	24	
		100	0	22.78	22.41	22.77	24	
		1	0	22.68	22.45	22.59	24	
		1	50	23.10	22.84	22.77	24	
		1	99	22.66	22.46	22.84	24	
		50	0	21.81	21.51	21.82	23	
		50	25	22.04	21.65	21.76	23	
	50	50	21.92	21.42	21.71	23		
	100	0	21.86	21.50	21.75	23		
	1	0	22.04	21.93	21.34	23		
	1	50	22.28	22.07	21.70	23		
	1	99	21.91	21.85	21.46	23		
	50	0	20.79	20.67	20.79	22		
	50	25	21.06	21.09	20.97	22		
	50	50	20.98	20.95	20.78	22		
	100	0	21.00	20.95	20.84	22		
	15M	QPSK	1	0	22.82	2100	2175	Max. Tune-up (dBm)
			1	0	22.82	2100	2175	Max. Tune-up (dBm)
			1	37	23.19	22.87	22.86	24
1			74	22.74	22.30	22.68	24	
36			0	22.57	22.41	22.59	24	
36			19	22.75	22.65	22.76	24	
36			39	22.76	22.45	22.57	24	
75			0	22.73	22.40	22.75	24	
1			0	22.80	22.39	22.54	24	
1			37	23.02	22.83	22.71	24	
1			74	22.61	22.37	22.77	24	
36			0	21.77	21.50	21.68	23	
36		19	22.01	21.51	21.70	23		
36		39	21.77	21.33	21.64	23		
75		0	21.85	21.50	21.70	23		
1		0	21.96	21.84	21.24	23		
1		37	22.13	21.95	21.73	23		
1		74	21.78	21.78	21.35	23		
36		0	20.72	20.75	20.66	22		
36		19	20.94	21.08	20.85	22		
36		39	20.94	20.95	20.73	22		
75		0	20.88	20.90	20.70	22		
10M		QPSK	1	0	22.75	2100	2160	Max. Tune-up (dBm)
			1	0	22.75	2100	2160	Max. Tune-up (dBm)
	1		24	23.09	22.80	22.85	24	
	1		49	22.70	22.30	22.64	24	
	25		0	22.66	22.41	22.59	24	
	25		12	22.85	22.65	22.67	24	
	25		25	22.74	22.39	22.65	24	
	50		0	22.66	22.39	22.65	24	
	1		0	22.66	22.36	22.48	24	
	1		24	23.03	22.71	22.71	24	
	1		49	22.63	22.38	22.82	24	
	25		0	21.68	21.45	21.80	23	
	25	12	21.56	21.64	21.73	23		
	25	25	21.79	21.27	21.61	23		
	50	0	21.77	21.49	21.60	23		
	1	0	22.01	21.83	21.30	23		
	1	24	22.24	21.96	21.61	23		
	1	49	21.79	21.75	21.42	23		
	25	0	20.67	20.78	20.71	22		
	25	12	20.95	21.00	20.89	22		
	25	25	20.89	20.91	20.70	22		
	50	0	20.87	20.87	20.75	22		
	5M	QPSK	1	0	22.74	2100	2142	Max. Tune-up (dBm)
			1	0	22.74	2100	2142	Max. Tune-up (dBm)
1			12	22.74	22.55	22.58	24	
1			24	22.62	22.26	22.65	24	
12			0	22.67	22.49	22.50	24	
12			6	22.80	22.54	22.81	24	
12			13	22.68	22.40	22.54	24	
25			0	22.71	22.28	22.73	24	
1			0	22.63	22.31	22.47	24	
1			12	23.09	22.80	22.67	24	
1			24	22.51	22.38	22.75	24	
12			0	21.76	21.40	21.75	23	
12		6	21.89	21.51	21.75	23		
12		13	21.79	21.34	21.58	23		
25		0	21.85	21.52	21.69	23		
1		0	22.02	21.83	21.23	23		
1		12	22.22	21.92	21.61	23		
1		24	21.82	21.82	21.33	23		
12		0	20.78	20.72	20.72	22		
12		6	20.98	20.90	20.83	22		
12		13	20.84	20.91	20.85	22		
25		0	20.82	20.82	20.72	22		

LTE Band 13								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel		2320	2320	2320		
10M	QPSK	1	0	24.42	24.36	24.43	25.5	
		1	24	24.42	24.36	24.43	25.5	
		1	49	24.40	24.40	24.40	25.5	
		25	0	23.51	23.51	23.51	24.5	
		25	12	23.63	23.63	23.63	24.5	
		25	25	23.56	23.56	23.56	24.5	
		50	0	23.53	23.53	23.53	24.5	
		1	0	23.48	23.48	23.48	24.5	
		1	24	23.74	23.74	23.74	24.5	
		1	49	23.56	23.56	23.56	24.5	
		25	0	22.51	22.51	22.51	23.5	
		25	12	22.52	22.52	22.52	23.5	
	25	25	22.49	22.49	22.49	23.5		
	50	0	22.55	22.55	22.55	23.5		
	1	0	22.58	22.58	22.58	23.5		
	1	24	22.78	22.78	22.78	23.5		
	1	49	22.59	22.59	22.59	23.5		
	25	0	21.49	21.49	21.49	22.5		
	25	12	21.48	21.48	21.48	22.5		
	25	25	21.47	21.47	21.47	22.5		
	50	0	21.51	21.51	21.51	22.5		
	5M	QPSK	1	0	24.35	24.30	24.42	25.5
			1	12	24.53	24.42	24.48	25.5
			1	24	24.37	24.36	24.26	25.5
12			0	23.37	23.40	23.41	24.5	
12			6	23.50	23.51	23.49	24.5	
12			13	23.54	23.45	23.50	24.5	
25			0	23.48	23.51	23.42	24.5	
1			0	23.36	23.35	23.44	24.5	
1			12	23.73	23.73	23.70	24.5	
1			24	23.45	23.42	23.44	24.5	
12			0	22.41	22.49	22.45	23.5	
12			6	22.45	22.44	22.39	23.5	
12		13	22.38	22.37	22.41	23.5		
25		0	22.49	22.40	22.53	23.5		
1		0	22.45	22.54	22.43	23.5		
1		12	22.73	22.67	22.72	23.5		
1		24	22.45	22.48	22.50	23.5		
12		0	21.40	21.38	21.44	22.5		
12		6	21.39	21.44	21.39	22.5		
12		13	21.39	21.44	21.36	22.5		
25		0	21.39	21.47	21.47	22.5		

LTE Band 26								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel		2676	2685	2686		
15M	QPSK	1	0	24.42	24.36	24.43	25.5	
		1	37	24.68	24.66	24.64	25.5	
		1	74	24.43	24.41	24.36	25.5	
		36	0	23.52	23.54	23.55	24.5	
		36	19	23.61	23.58	23.57	24.5	
		36	39	23.49	23.57	23.54	24.5	
		75	0	23.56	23.56	23.56	24.5	
		1	0	23.59	23.65	23.56	24.5	
		1	37	23.82	23.78	23.87	24.5	
		1	74	23.67	23.70	23.66	24.5	
		36	0	22.55	22.64	22.54	23.5	
		36	19	22.60	22.62	22.56	23.5	
	36	39	22.52	22.65	22.57	23.5		
	75	0	22.54	22.67	22.58	23.5		
	1	0	22.73	22.63	22.64	23.5		
	1	37	22.90	22.83	22.86	23.5		
	1	74	22.64	22.56	22.67	23.5		
	36	0	21.61	21.61	21.56	22.5		
	36	19	21.61	21.62	21.58	22.5		
	36	39	21.53	21.58	21.52	22.5		
	75	0	21.51	21.51	21.53	22.5		
	10M	QPSK	1	0	24.39	24.31	24.35	25.5
			1	24	24.57	24.53	24.55	25.5
			1	49	24.36	24.28	24.27	25.5
25			0	23.50	23.57	23.50	24.5	
25			12	23.43	23.53	23.53	24.5	
25			25	23.43	23.45	23.40	24.5	
50			0	23.37	23.49	23.46	24.5	
1			0	23.53	23.50	23.51	24.5	
1			24	23.75	23.75	23.63	24.5	
1			49	23.57	23.69	23.56	24.5	
25			0	22.40	22.56	22.43	23.5	
25			12	22.59	22.59	22.55	23.5	
25		25	22.48	22.52	22.44	23.5		
50		0	22.50	22.60	22.51	23.5		
1		0	22.58	22.60	22.60	23.5		
1		24	22.88	22.88	22.76	23.5		
1		49	22.50	22.50	22.53	23.5		
25		0	21.50	21.58	21.48	22.5		
25		12	21.53	21.58	21.47	22.5		
25		25	21.47	21.51	21.42	22.5		
50		0	21.36	21.53	21.38	22.5		
5M		QPSK	1	0	24.16	24.16	24.16	25.5
			1	0	24.37	24.30	24.47	25.5
			1	12	24.58	24.56	24.60	25.5
	1		24	24.40	24.37	24.25	25.5	
	12		0	23.48	23.56	23.42	24.5	
	12		6	23.42	23.58	23.42	24.5	
	12		13	23.48	23.47	23.41	24.5	
	25		0	23.36	23.51	23.47	24.5	
	1		0	23.47	23.51	23.53		

LTE Band 38										
BW	Modulation	RB Size	RB Offset	Channel			Low	Mid	High	Max. Turn-up (dBm)
				3875	3985	4095				
20M	QPSK	50	0	23.87	23.95	23.85	25			
			1	50	24.25	24.28	24.22	25		
			1	99	23.95	23.92	23.95	25		
			50	0	23.02	23.13	23.13	24		
			50	25	23.10	23.19	23.15	24		
			50	50	23.07	23.17	23.08	24		
	16QAM	50	0	22.95	23.02	22.71	24			
			1	50	23.33	23.33	23.10	24		
			1	99	22.88	22.78	22.73	24		
			50	25	22.13	22.11	22.14	23		
			50	50	22.15	22.06	22.11	23		
			100	0	22.08	22.02	22.12	23		
64QAM	50	0	21.78	21.95	21.61	23				
		1	50	22.00	22.27	21.93	23			
		1	99	21.62	21.63	21.52	23			
		50	0	20.96	20.94	21.04	22			
		50	25	21.06	20.97	21.05	22			
		100	0	20.97	21.01	20.98	22			
15M	QPSK	36	0	23.78	23.89	23.78	25			
			1	37	24.22	24.23	24.19	25		
			1	74	23.89	23.77	23.88	25		
			36	0	22.94	23.10	23.11	24		
			36	19	22.97	23.13	23.07	24		
			36	39	23.01	23.00	23.08	24		
	16QAM	36	0	22.97	23.01	23.00	24			
			1	37	23.26	23.27	23.03	24		
			1	74	22.62	22.63	22.65	24		
			36	0	21.86	21.97	22.04	23		
			36	19	22.12	22.01	22.13	23		
			36	39	22.02	22.01	22.08	23		
64QAM	36	0	21.98	21.98	21.99	23				
		1	37	21.77	21.84	21.57	23			
		1	74	21.68	22.20	21.85	23			
		1	74	21.51	21.57	21.75	23			
		36	0	20.86	20.82	20.99	22			
		36	19	21.02	20.83	20.93	22			
10M	QPSK	25	0	23.72	23.90	23.81	25			
			1	24	24.17	24.14	25			
			1	49	23.91	23.83	23.87	25		
			25	0	22.90	22.99	23.10	24		
			25	12	22.97	23.13	23.07	24		
			25	25	23.03	23.02	23.01	24		
	16QAM	25	0	22.92	23.00	22.68	24			
			1	24	23.28	23.26	22.99	24		
			1	49	22.74	22.68	22.86	24		
			25	0	21.89	21.97	22.04	23		
			25	12	21.98	21.98	22.10	23		
			25	25	22.02	21.97	22.01	23		
64QAM	25	0	22.06	21.89	21.97	23				
		1	0	21.72	21.90	21.53	23			
		1	24	21.99	22.24	21.91	23			
		1	49	21.57	21.54	21.54	23			
		25	0	20.90	20.92	21.03	22			
		25	12	20.94	20.89	21.03	22			
5M	QPSK	12	0	23.84	23.94	23.84	25			
			1	12	24.21	24.23	24.09	25		
			1	24	23.80	23.83	23.81	25		
			12	0	23.01	23.05	23.12	24		
			12	6	23.07	23.10	23.13	24		
			12	13	23.05	23.01	23.01	24		
	16QAM	12	0	22.83	22.93	22.66	24			
			1	12	23.28	23.28	22.97	24		
			1	24	22.74	22.73	22.67	24		
			12	0	21.97	21.92	22.04	23		
			12	6	21.99	21.97	22.00	23		
			12	13	22.13	21.95	21.98	23		
64QAM	12	0	21.98	21.90	21.98	23				
		1	0	21.68	21.90	21.53	23			
		1	12	21.98	22.14	21.87	23			
		1	24	21.55	21.51	21.69	23			
		12	0	20.92	20.85	21.00	22			
		12	6	21.00	20.87	21.01	22			

LTE Band 41 (2486 - 2690MHz)										
BW	Modulation	RB Size	RB Offset	Channel			Low	Mid	High	Max. Turn-up (dBm)
				2486	2496	2506				
20M	QPSK	50	0	23.73	23.95	23.75	25			
			1	50	24.04	24.22	24.00	25		
			1	99	23.72	23.75	23.64	25		
			50	0	22.76	23.01	22.77	24		
			50	25	22.90	23.08	22.81	24		
			50	50	22.89	23.07	22.81	24		
	16QAM	50	0	22.70	22.96	22.78	24			
			1	50	23.13	23.25	22.99	24		
			1	99	22.80	22.80	22.56	24		
			50	25	21.83	22.10	21.80	23		
			50	50	22.00	22.05	21.78	23		
			100	0	21.95	22.10	21.82	23		
64QAM	50	0	21.66	21.53	21.68	23				
		1	50	21.71	21.80	21.57	23			
		1	99	21.59	21.37	21.58	23			
		50	0	20.72	21.02	20.79	22			
		50	25	20.89	21.05	20.89	22			
		100	0	20.87	21.05	20.74	22			
15M	QPSK	36	0	23.63	23.82	23.68	25			
			1	37	23.99	24.13	23.89	25		
			1	74	23.65	23.68	23.56	25		
			36	0	22.67	22.95	22.71	24		
			36	19	22.78	22.88	22.77	24		
			36	39	22.88	22.88	22.61	24		
	16QAM	36	0	22.79	23.08	22.77	24			
			1	37	23.11	23.10	22.89	24		
			1	74	22.70	22.70	22.42	24		
			36	0	21.73	21.86	21.86	23		
			36	19	21.87	22.06	21.78	23		
			36	39	21.91	21.97	21.68	23		
64QAM	36	0	21.90	22.05	21.73	23				
		1	37	21.62	21.44	21.57	23			
		1	74	21.67	21.71	21.53	23			
		1	74	21.44	21.30	21.57	23			
		36	0	20.69	21.01	20.70	22			
		36	19	20.82	20.91	20.80	22			
10M	QPSK	25	0	23.71	23.97	23.63	25			
			1	24	24.02	24.21	24.00	25		
			1	49	23.62	23.62	23.59	25		
			25	0	22.66	22.98	22.74	24		
			25	12	22.88	22.98	22.97	24		
			25	25	22.86	22.89	22.82	24		
	16QAM	25	0	22.88	23.00	22.83	24			
			1	24	23.61	23.64	22.65	24		
			1	49	22.66	22.76	22.47	24		
			25	0	21.73	21.86	21.86	23		
			25	12	21.83	21.99	21.72	23		
			25	25	21.88	21.95	21.66	23		
64QAM	25	0	21.92	22.03	21.76	23				
		1	0	21.58	21.44	21.55	23			
		1	24	21.70	21.80	21.52	23			
		1	49	21.44	21.35	21.52	23			
		25	0	20.62	20.90	20.73	22			
		25	12	20.77	20.94	20.70	22			
5M	QPSK	12	0	23.80	23.85	23.83	25			
			1	12	23.93	24.17	23.89	25		
			1	24	23.64	23.63	23.55	25		
			12	0	22.70	22.84	22.74	24		
			12	6	22.89	22.97	22.71	24		
			12	13	22.88	22.95	22.79	24		
	16QAM	12	0	22.85	23.02	22.77	24			
			1	12	23.07	23.21	22.93	24		
			1	24	22.77	22.73	22.42	24		
			12	0	21.84	21.95	21.82	23		
			12	6	21.78	22.07	21.75	23		
			12	13	21.98	22.03	21.64	23		
64QAM	12	0	21.92	22.02	21.77	23				
		1	0	21.54	21.76	21.53	23			
		1	12	21.65	21.76	21.50	23			
		1	24	21.44	21.34	21.53	23			
		12	0	20.58	20.88	20.69	22			
		12	6	20.85	21.04	20.78	22			

LTE Band 66										
BW	Modulation	RB Size	RB Offset	Channel			Low	Mid	High	Max. Turn-up (dBm)
				13272	13282	13292				
20M	QPSK	50	0	24.06	24.07	24.05	25.5			
			1	50	24.39	24.56	24.41	25.5		
			1	99	24.23	24.28	24.13	25.5		
			50	0	23.46	23.49	23.40	24.5		
			50	25	23.50	23.52	23.44	24.5		
			50	50	23.47	23.48	23.34	24.5		
	16QAM	50	0	23.36	23.50	23.38	24.5			
			1	50	23.63	23.69	23.63	24.5		
			1	99	23.38	23.51	23.40	24.5		
			50	0	22.44	22.45	22.45	23.5		
			50	25	22.57	22.59	22.61	23.5		
			100	0	22.53	22.53	22.34	23.5		
64QAM	50	0	22.35	22.35	22.35	23.5				
		1	50	22.69	22.72	22.71	23.5			
		1	99	22.43	22.45	22.39	23.5			
		50	0	21.43	21.47	21.47	22.5			
		50	25	21.41	21.47	21.48	22.5			
		100	0	21						

LTE_DSI-3&4 Ant1

		LTE Band 2							
BW	Modulation	Channel	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Frequency (MHz)	1800	1880	1960	1960	1960		
20M	QPSK	1	0	21.58	21.56	21.54	23		
		1	50	21.96	21.96	21.96	23		
		1	99	21.60	21.62	21.61	23		
		50	0	21.78	21.78	21.81	23		
		50	25	21.78	21.78	21.86	23		
	16QAM	50	50	21.74	21.65	21.73	23		
		100	0	21.86	21.81	21.84	23		
		1	0	21.63	21.58	21.52	23		
		1	50	21.85	21.81	21.69	23		
		1	99	21.66	21.66	21.56	23		
	64QAM	50	0	21.41	21.39	21.56	23		
		50	25	21.56	21.52	21.55	23		
		50	50	21.37	21.57	21.34	23		
		100	0	21.43	21.42	21.40	23		
		1	0	21.44	21.34	21.36	23		
	15M	QPSK	1	0	21.66	21.70	21.62	23	
			1	50	21.66	21.70	21.62	23	
			1	99	21.40	21.28	21.39	23	
			50	0	21.20	21.28	21.36	23	
			50	25	21.34	21.23	21.28	23	
16QAM		50	50	21.11	21.28	21.12	23		
		100	0	21.19	21.32	21.17	23		
		1	0	21.42	21.44	21.44	23		
		1	37	21.64	21.69	21.84	23		
		1	74	21.69	21.45	21.47	23		
64QAM		36	0	21.65	21.63	21.78	23		
		36	19	21.78	21.66	21.78	23		
		36	39	21.61	21.81	21.70	23		
		75	0	21.64	21.74	21.71	23		
		1	0	21.65	21.53	21.49	23		
10M		QPSK	1	0	21.71	21.74	21.65	23	
			1	37	21.71	21.74	21.65	23	
			1	74	21.62	21.61	21.42	23	
			36	0	21.31	21.35	21.41	23	
			36	19	21.41	21.47	21.42	23	
	16QAM	36	39	21.30	21.56	21.29	23		
		75	0	21.38	21.41	21.34	23		
		1	0	21.42	21.20	21.29	23		
		1	37	21.62	21.65	21.59	23		
		1	74	21.26	21.16	21.25	23		
	64QAM	36	0	21.30	21.16	21.32	23		
		36	19	21.32	21.18	21.12	23		
		36	39	20.98	21.27	21.08	23		
		75	0	21.10	21.19	21.16	23		
		1	0	21.53	21.49	21.47	23		
	5M	QPSK	1	0	21.71	21.70	21.72	23	
			1	24	21.71	21.70	21.72	23	
			1	49	21.49	21.45	21.42	23	
			25	0	21.72	21.75	21.78	23	
			25	12	21.68	21.73	21.80	23	
16QAM		25	0	21.30	21.63	21.49	23		
		50	0	21.82	21.77	21.73	23		
		1	0	21.49	21.82	21.37	23		
		1	24	21.64	21.66	21.55	23		
		1	49	21.62	21.58	21.44	23		
64QAM		25	0	21.30	21.15	21.32	23		
		25	12	21.45	21.38	21.53	23		
		25	25	21.24	21.55	21.30	23		
		50	0	21.35	21.28	21.33	23		
		1	0	21.36	21.31	21.21	23		
3M		QPSK	1	0	21.53	21.51	21.53	23	
			1	12	21.79	21.78	21.80	23	
			1	24	21.52	21.59	21.47	23	
			12	0	21.63	21.71	21.77	23	
			12	6	21.74	21.69	21.78	23	
	16QAM	12	13	21.70	21.81	21.59	23		
		25	0	21.72	21.68	21.75	23		
		1	0	21.53	21.50	21.51	23		
		1	12	21.79	21.69	21.58	23		
		1	24	21.53	21.62	21.48	23		
	64QAM	12	0	21.36	21.25	21.47	23		
		12	6	21.52	21.49	21.54	23		
		12	13	21.28	21.43	21.23	23		
		25	0	21.41	21.41	21.28	23		
		1	0	21.35	21.30	21.17	23		
	1.4M	QPSK	1	0	21.53	21.43	21.49	23	
			1	2	21.73	21.66	21.79	23	
			1	5	21.51	21.49	21.49	23	
			3	0	22.50	22.55	22.57	23	
			3	1	22.63	22.54	22.59	23	
16QAM		3	3	22.53	22.61	22.40	23		
		6	0	21.72	21.78	21.72	23		
		1	0	21.55	21.45	21.38	23		
		1	2	21.68	21.62	21.62	23		
		1	5	21.59	21.55	21.55	23		
64QAM		3	0	22.21	22.09	22.32	23		
		3	1	22.24	22.23	22.33	23		
		3	3	22.09	22.32	22.06	23		
		6	0	21.80	21.38	21.38	23		
		1	0	21.37	21.29	21.17	23		
1.4M		QPSK	1	0	21.53	21.56	21.48	23	
			1	5	21.34	21.27	21.35	23	
			3	0	21.65	21.68	21.77	23	
			3	1	21.77	21.69	21.69	23	
			3	3	21.42	21.65	21.51	23	
	16QAM	6	0	21.07	21.25	21.14	23		
		1	0	21.53	21.43	21.49	23		
		1	2	21.05	21.21	21.07	23		
		1	5	20.98	21.02	21.01	23		
		3	0	20.99	21.06	20.96	23		
	64QAM	3	1	20.75	20.76	20.78	23		
		3	3	20.75	20.78	20.90	23		
		6	0	20.82	20.85	20.82	23		
		1	0	20.57	20.73	20.70	23		
		1	2	20.89	20.98	20.86	23		
	3M	QPSK	1	0	20.82	20.77	20.70	23	
			1	2	21.05	21.21	21.07	23	
			1	5	20.98	21.02	21.01	23	
			3	0	20.75	20.76	20.78	23	
			3	1	20.75	20.78	20.90	23	
16QAM		3	3	20.71	20.88	20.95	23		
		6	0	20.82	20.85	20.82	23		
		1	0	20.57	20.73	20.70	23		
		1	2	20.89	20.98	20.86	23		
		1	5	20.93	20.76	20.71	23		
64QAM		3	0	20.76	20.71	20.78	23		
		3	1	20.81	20.80	20.66	23		
		3	3	20.89	20.59	20.52	23		
		6	0	20.75	20.55	20.61	23		
		1	0	20.69	20.67	20.66	23		
1.4M		QPSK	1	0	20.82	20.77	20.70	23	
			1	2	21.05	21.21	21.07	23	
			1	5	20.98	21.02	21.01	23	
			3	0	20.75	20.76	20.78	23	
			3	1	20.75	20.78	20.90	23	
	16QAM	3	3	20.71	20.88	20.95	23		
		6	0	20.82	20.85	20.82	23		
		1	0	20.57	20.73	20.70	23		
		1	2	20.89	20.98	20.86	23		
		1	5	20.93	20.76	20.71	23		
	64QAM	3	0	20.76	20.71	20.78	23		
		3	1	20.81	20.80	20.66	23		
		3	3	20.89	20.59	20.52	23		
		6	0	20.75	20.55	20.61	23		
		1	0	20.69	20.67	20.66	23		
	1.4M	QPSK	1	0	20.82	20.77	20.70	23	
			1	2	21.05	21.21	21.07	23	
			1	5	20.98	21.02	21.01	23	
			3	0	20.75	20.76	20.78	23	
			3	1	20.75	20.78	20.90	23	
16QAM		3	3	20.71	20.88	20.95	23		
		6	0	20.82	20.85	20.82	23		
		1	0	20.57	20.73	20.70	23		
		1	2	20.89	20.98	20.86	23		
		1	5	20.93	20.76	20.71	23		
64QAM		3	0	20.76	20.71	20.78	23		
		3	1	20.81	20.80	20.66	23		
		3	3	20.89	20.59	20.52	23		
		6	0	20.75	20.55	20.61	23		
		1	0	20.69	20.67	20.66	23		

		LTE Band 4							
BW	Modulation	Channel	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Frequency (MHz)	1700	1780	1860	1860	1860		
20M	QPSK	1	0	20.84	20.88	20.77	23		
		1	50	21.14	21.32	21.17	23		
		1	99	20.88	21.04	20.91	23		
		50	0	20.81	20.77	20.79	23		
		50	25	20.84	20.82	20.82	23		
	16QAM	50	50	20.82	20.91	20.98	23		
		100	0	20.93	20.91	20.85	23		
		1	0	20.71	20.87	20.82	23		
		1	50	21.03	21.05	21.03	23		
		1	99	20.86	20.87	20.79	23		
	64QAM	50	0	20.87	20.79	20.79	23		
		50	25	20.91	20.92	20.77	23		
		50	50	20.97	20.70	20.67	23		
		100	0	20.82	20.67	20.69	23		
		1	0	20.84	20.73	20.78	23		
	15M	QPSK	1	0	20.84	20.88	20.77	23	
			1	50	21.01	21.00	21.13	23	

LTE Band 7								
BW	Modulation	RB Size		Low	Mid	High	Max. Tune-up (dBm)	
		Channel	RB Offset					
		Frequency (MHz)		2965	2995	2965		
20M	QPSK	1	0	19.07	18.70	18.50	20	
		1	50	19.41	19.13	19.25	20	
		1	99	19.02	18.71	18.92	20	
		50	0	19.01	18.82	19.00	20	
		50	25	19.04	18.85	19.02	20	
		50	50	19.03	18.70	18.86	20	
		100	0	19.00	18.63	18.90	20	
		1	0	18.78	18.39	19.01	20	
		1	50	19.01	18.75	19.28	20	
		1	99	18.91	18.58	19.12	20	
		50	0	18.96	18.56	18.82	20	
		50	25	19.00	18.65	18.84	20	
	50	50	19.06	18.56	18.85	20		
	100	0	18.90	18.59	18.84	20		
	16QAM	1	0	18.86	18.77	18.69	20	
		1	50	19.15	19.11	18.69	20	
		1	99	19.03	18.89	18.61	20	
		50	0	19.02	18.96	18.89	20	
		50	25	19.02	19.03	18.97	20	
		50	50	19.07	18.92	18.88	20	
		100	0	19.02	18.97	18.91	20	
		64QAM	1	0	18.86	18.77	18.69	20
			1	50	19.15	19.11	18.69	20
			1	99	19.03	18.89	18.61	20
50			0	19.02	18.96	18.89	20	
50			25	19.02	19.03	18.97	20	
50	50		19.07	18.92	18.88	20		
100	0		19.02	18.97	18.91	20		
15M	QPSK		1	0	18.94	18.58	18.86	20
			1	37	19.29	19.12	19.22	20
			1	74	18.87	18.64	18.81	20
			36	0	18.87	18.73	18.87	20
			36	19	18.91	18.80	19.01	20
		36	39	18.97	18.64	18.83	20	
		75	0	18.88	18.48	18.83	20	
		1	0	18.70	18.28	19.00	20	
		1	37	18.90	18.73	19.13	20	
		1	74	18.79	18.46	19.02	20	
		36	0	18.81	18.42	18.67	20	
		36	19	18.87	18.64	18.71	20	
36	39	19.04	18.48	18.75	20			
75	0	18.82	18.28	18.80	20			
10M	16QAM	1	0	18.71	18.73	18.67	20	
		1	37	19.00	19.00	18.64	20	
		1	74	18.88	18.81	18.46	20	
		36	0	18.94	18.86	18.77	20	
		36	19	18.92	18.88	18.93	20	
		36	39	18.99	18.90	18.84	20	
	75	0	18.96	18.83	18.80	20		
	64QAM	1	0	18.90	18.80	18.60	20	
		1	37	19.00	19.00	18.64	20	
		1	74	18.88	18.81	18.46	20	
		36	0	18.94	18.86	18.77	20	
		36	19	18.92	18.88	18.93	20	
36		39	18.99	18.90	18.84	20		
5M	QPSK	1	0	19.03	18.57	18.78	20	
		1	24	19.27	19.01	19.13	20	
		1	49	18.95	18.55	18.86	20	
		25	0	18.90	18.75	18.90	20	
		25	12	18.91	18.78	18.93	20	
		25	25	18.91	18.60	18.84	20	
	50	0	18.97	18.61	18.94	20		
	16QAM	1	0	18.66	18.24	18.87	20	
		1	24	18.91	18.69	19.27	20	
		1	49	18.81	18.54	19.03	20	
		25	0	18.84	18.55	18.74	20	
		25	12	18.86	18.64	18.75	20	
25		25	18.98	18.50	18.75	20		
50	0	18.75	18.44	18.74	20			
64QAM	1	0	18.78	18.74	18.62	20		
	1	24	19.05	18.97	18.60	20		
	1	49	18.98	18.87	18.51	20		
	25	0	18.91	18.93	18.87	20		
	25	12	18.94	18.95	18.86	20		
	25	25	18.93	18.88	18.86	20		
50	0	19.00	18.93	18.68	20			
10M	QPSK	1	0	18.93	18.55	18.80	20	
		1	12	19.36	19.10	19.18	20	
		1	24	18.93	18.63	18.91	20	
		12	0	18.91	18.79	18.90	20	
		12	6	18.93	18.80	18.96	20	
		12	13	18.89	18.56	18.85	20	
	25	0	18.85	18.56	18.84	20		
	16QAM	1	0	18.68	18.38	18.86	20	
		1	12	18.89	18.67	19.19	20	
		1	24	18.85	18.45	19.06	20	
		12	0	18.81	18.50	18.76	20	
		12	6	18.96	18.82	18.73	20	
12		13	19.05	18.50	18.77	20		
25	0	18.77	18.45	18.73	20			
64QAM	1	0	18.75	18.74	18.62	20		
	1	12	19.12	19.08	18.58	20		
	1	24	18.91	18.77	18.52	20		
	12	0	18.88	18.89	18.77	20		
	12	6	19.00	18.93	18.90	20		
	12	13	19.00	18.84	18.86	20		
25	0	18.93	18.86	18.78	20			

LTE Band 13								
BW	Modulation	RB Size		Low	Mid	High	Max. Tune-up (dBm)	
		Channel	RB Offset					
		Frequency (MHz)		2329	782	784.5		
10M	QPSK	1	0	24.45	24.45	25.5	20	
		1	24	24.45	24.45	25.5	20	
		1	49	24.40	24.40	25.5	20	
		25	0	23.51	23.51	24.5	20	
		25	12	23.63	23.63	24.5	20	
		25	25	23.59	23.59	24.5	20	
		50	0	23.53	23.53	24.5	20	
		1	0	23.46	23.46	24.5	20	
		1	24	23.74	23.74	24.5	20	
		1	49	23.56	23.56	24.5	20	
		25	0	22.51	22.51	23.5	20	
		25	12	22.52	22.52	23.5	20	
	25	25	22.49	22.49	23.5	20		
	50	0	22.55	22.55	23.5	20		
	16QAM	1	0	22.58	22.58	23.5	20	
		1	24	22.78	22.78	23.5	20	
		1	49	22.59	22.59	23.5	20	
		25	0	21.49	21.49	22.5	20	
		25	12	21.48	21.48	22.5	20	
		25	25	21.47	21.47	22.5	20	
		50	0	21.51	21.51	22.5	20	
		64QAM	1	0	22.58	22.58	23.5	20
			1	24	22.78	22.78	23.5	20
			1	49	22.59	22.59	23.5	20
25			0	21.49	21.49	22.5	20	
25			12	21.48	21.48	22.5	20	
25	25		21.47	21.47	22.5	20		
50	0		21.51	21.51	22.5	20		
5M	QPSK		1	0	24.35	24.30	24.42	25.5
			1	12	24.53	24.42	24.48	25.5
			1	24	24.37	24.35	24.28	25.5
			12	0	23.37	23.40	23.41	24.5
			12	6	23.50	23.51	23.49	24.5
		12	13	23.54	23.45	23.50	24.5	
		25	0	23.48	23.51	23.42	24.5	
		1	0	23.38	23.35	23.44	24.5	
		1	12	23.73	23.73	23.70	24.5	
		1	24	23.45	23.42	23.44	24.5	
		12	0	22.41	22.49	22.45	23.5	
		12	6	22.45	22.44	22.39	23.5	
12	13	22.38	22.37	22.41	23.5			
25	0	22.49	22.40	22.53	23.5			
10M	16QAM	1	0	22.45	22.54	22.43	23.5	
		1	12	23.73	23.73	23.70	24.5	
		1	24	23.45	23.42	23.44	24.5	
		12	0	22.41	22.49	22.45	23.5	
		12	6	22.45	22.44	22.39	23.5	
		12	13	22.38	22.37	22.41	23.5	
	25	0	22.49	22.40	22.53	23.5		
	64QAM	1	0	22.45	22.54	22.43	23.5	
		1	12	23.73	23.73	23.70	24.5	
		1	24	23.45	23.42	23.44	24.5	
		12	0	22.41	22.49	22.45	23.5	
		12	6	22.45	22.44	22.39	23.5	
12		13	22.38	22.37	22.41	23.5		
5M	QPSK	1	0	22.73	22.67	22.72	23.5	
		1	12	22.45	22.46	22.50	23.5	
		1	24	22.45	22.46	22.50	23.5	
		12	0	21.40	21.38	21.44	22.5	
		12	6	21.39	21.44	21.38	22.5	
		12	13	21.39	21.41	21.37	22.5	
	25	0	21.39	21.47	21.47	22.5		

LTE Band 26							
BW	Modulation	RB Size		Low	Mid	High	Max. Tune-up (dBm)
		Channel	RB Offset				
		Frequency (MHz)		851.5	851.5	841.5	
15M	QPSK	1	0	24.42	24.36	24.49	25.5
		1	37	24.68	24.66	24.64	25.5
		1	74	24.43	24.41	24.36	25.5
		36	0	23.52	23.54	23.55	24.5
		36	19	23.61	23.58	23.57	24.5
		36	39	23.49	23.57	23.54	24.5
		75	0	23.56	23.54	23.55	24.5
		1	0	23.59	23.65	23.56	24.5
		1	37	23.82	23.78	23.87	24.5
		1	74	23.67	23.70	23.66	24.5
		36	0	22.55	22.64	22.54	23.5
		36	19	22.60	22.62	22.56	23.5
	36	39	22.52	22.65	22.57	23.5	
	75	0	22.54	22.62	22.58	23.5	
	16QAM	1	0	22.73	22.83	22.84	23.5
		1	37	22.90	22.81	22.86	23.5
		1	74	22.64	22.56	22.67	23.5
		36	0	21.53	21.61	21.58	22.5
		36	19	21.61	21.62	21.58</	

LTE Band 38													
BW	Modulation	RB Size		RB Offset		Low	Mid	High	Max. T-adj (dBm)	Turn-up (dBm)			
		Channel	Frequency (MHz)	Channel	Frequency (MHz)								
QPSK	1	0	19.99	20.14	20.13	21.5							
		50	20.59	20.66	20.61	21.5							
		99	20.27	20.12	20.21	21.5							
		50	20.19	20.28	20.10	21.5							
		50	20.20	20.06	19.96	21.5							
		50	20.15	20.12	20.14	21.5							
		100	20.04	20.14	20.07	21.5							
		1	19.82	19.85	19.80	21.5							
		1	50	20.01	20.05	19.86	21.5						
		1	99	19.83	19.58	19.66	21.5						
16QAM	50	0	19.99	19.86	20.07	21.5							
		50	20.01	19.88	19.98	21.5							
		50	20.07	20.05	19.86	21.5							
		100	20.00	19.95	20.10	21.5							
		1	0	19.75	19.68	19.81	21.5						
		1	50	19.86	19.98	19.78	21.5						
		1	99	19.68	19.61	19.72	21.5						
		50	19.84	19.66	19.91	21.5							
		50	25	19.92	19.75	19.71	21.5						
		50	50	19.64	19.64	19.80	21.5						
64QAM	100	0	19.78	19.85	19.79	21.5							
		Channel	37825	38000	38175								
		Frequency (MHz)	2012.5	2012.5	2012.5	Turn-up (dBm)							
		1	0	20.06	20.06	20.20	21.5						
		1	37	20.57	20.55	20.55	21.5						
		1	74	20.34	20.15	20.23	21.5						
		36	0	20.11	20.08	19.98	21.5						
		36	19	20.07	20.28	20.10	21.5						
		36	39	20.05	20.17	19.97	21.5						
		75	0	20.16	20.14	20.01	21.5						
15M	16QAM	1	0	19.90	19.87	19.89	21.5						
			1	37	20.23	20.26	20.04	21.5					
			1	74	19.94	19.86	19.86	21.5					
			36	0	19.97	19.94	20.01	21.5					
			36	19	20.11	19.86	20.09	21.5					
			36	39	19.99	20.03	19.86	21.5					
			75	0	19.89	19.68	19.69	21.5					
			1	37	19.93	20.03	19.67	21.5					
			1	74	19.60	19.72	19.70	21.5					
			36	0	19.76	19.76	19.95	21.5					
64QAM	36	19	19.86	19.74	19.76	21.5							
		36	39	19.74	19.69	19.83	21.5						
		75	0	19.68	19.91	19.92	21.5						
		Channel	37875	38050	38225								
		Frequency (MHz)	2017.5	2017.5	2017.5	Turn-up (dBm)							
		1	0	20.00	20.06	20.15	21.5						
		1	24	20.63	20.61	20.58	21.5						
		1	49	20.37	20.13	20.29	21.5						
		25	0	20.13	20.06	20.01	21.5						
		25	12	20.17	20.11	20.06	21.5						
25	25	20.06	20.03	19.96	21.5								
50	0	20.04	20.18	20.06	21.5								
10M	16QAM	1	0	19.90	19.90	19.83	21.5						
			1	24	20.22	20.31	20.04	21.5					
			1	49	19.93	19.87	19.86	21.5					
			25	0	20.03	19.88	19.95	21.5					
			25	12	20.10	19.96	20.09	21.5					
			25	25	20.00	20.06	19.91	21.5					
			50	0	20.08	19.85	20.00	21.5					
			50	0	19.67	19.75	19.78	21.5					
			1	24	19.90	20.00	19.68	21.5					
			1	49	19.68	19.73	19.70	21.5					
64QAM	25	0	19.67	19.65	20.00	21.5							
		25	12	19.92	19.74	19.76	21.5						
		25	25	19.76	19.64	19.70	21.5						
		50	0	19.82	19.92	19.90	21.5						
		Channel	37775	38000	38225								
		Frequency (MHz)	2012.5	2012.5	2012.5	Turn-up (dBm)							
		1	0	20.07	20.08	20.16	21.5						
		1	12	20.59	20.56	20.52	21.5						
		1	24	20.38	20.14	20.18	21.5						
		12	0	20.00	20.15	20.00	21.5						
12	6	20.13	20.11	19.98	21.5								
12	13	20.13	20.08	20.09	21.5								
25	0	20.13	20.11	19.98	21.5								
5M	16QAM	1	0	19.85	19.87	19.83	21.5						
			1	12	20.11	20.26	20.11	21.5					
			1	24	19.83	19.66	19.74	21.5					
			12	0	20.02	19.88	19.87	21.5					
			12	6	20.11	19.95	19.10	21.5					
			12	13	20.10	20.06	19.86	21.5					
			25	0	19.89	19.82	20.05	21.5					
			1	0	19.71	19.61	19.68	21.5					
			1	12	19.87	20.02	19.67	21.5					
			1	24	19.63	19.60	19.63	21.5					
64QAM	12	0	19.80	19.74	19.87	21.5							
		12	6	19.80	19.75	19.73	21.5						
		12	13	19.64	19.68	19.75	21.5						
		25	0	19.71	19.90	19.85	21.5						

LTE Band 41 (2496 - 2800MHz)													
BW	Modulation	RB Size		RB Offset		Low	Low Mid	Mid	High Mid	High	Max. T-adj (dBm)	Turn-up (dBm)	
		Channel	Frequency (MHz)	Channel	Frequency (MHz)								
QPSK	1	0	19.61	19.71	19.58	19.67	19.55	21					
		50	19.84	20.02	19.82	19.89	19.89	21					
		99	19.48	19.60	19.47	19.52	19.56	21					
		50	19.26	19.41	19.26	19.38	19.34	21					
		50	25	19.47	19.50	19.41	19.50	19.35	21				
		50	50	19.41	19.53	19.35	19.33	19.23	21				
		100	0	19.42	19.59	19.31	19.56	19.46	21				
		1	0	19.30	19.53	19.20	19.37	19.35	21				
		1	50	19.49	19.72	19.41	19.51	19.55	21				
		1	99	19.33	19.31	19.51	19.24	19.16	21				
16QAM	50	0	19.45	19.55	19.41	19.55	19.36	21					
		50	25	19.56	19.55	19.42	19.57	19.40	21				
		50	50	19.49	19.62	19.33	19.45	19.26	21				
		100	0	19.51	19.61	19.33	19.48	19.33	21				
		1	0	19.34	19.44	19.19	19.35	19.57	21				
		1	50	19.49	19.52	19.29	19.33	19.16	21				
		1	99	19.30	19.26	19.29	19.39	19.30	21				
		50	0	19.38	19.57	19.42	19.34	19.47	21				
		50	25	19.39	19.61	19.37	19.48	19.52	21				
		50	50	19.41	19.50	19.33	19.30	19.15	21				
64QAM	100	0	19.41	19.57	19.37	19.54	19.38	21					
		Channel	39775	40145	40620	41095	41570						
		Frequency (MHz)	2497.5	2497.5	2497.5	2497.5	2497.5	Turn-up (dBm)					
		1	0	19.47	19.70	19.44	19.61	19.41	21				
		1	37	19.71	19.89	19.75	19.83	19.77	21				
		1	74	19.47	19.49	19.44	19.38	19.50	21				
		36	0	19.27	19.40	19.26	19.15	19.23	21				
		36	19	19.45	19.25	19.41	19.21	19.10	21				
		36	39	19.37	19.44	19.23	19.29	19.12	21				
		75	0	19.30	19.49	19.25	19.55	19.43	21				
15M	16QAM	1	0	19.19	19.45	19.09	19.24	19.25	21				
			1	37	19.59	19.57	19.54	19.50	19.49	21			
			1	74	19.18	19.16	19.36	19.21	19.10	21			
			36	0	19.34	19.47	19.32	19.45	19.21	21			
			36	19	19.44	19.53	19.32	19.44	19.38	21			
			36	39	19.34	19.56	19.31	19.38	19.10	21			
			75	0	19.20	19.50	19.24	19.24	19.10	21			
			1	37	19.37	19.39	19.23	19.30	19.03	21			
			1	74	19.26	19.14	19.20	19.35	19.21	21			
			36	0	19.29	19.25	19.32	19.19	19.53	21			
64QAM	36	19	19.36	19.46	19.34	19.44	19.50	21					
		36	39	19.26	19.46	19.25	19.16	19.11	21				
		75	0	19.35	19.44	19.24	19.43	19.26	21				
		Channel	39775	40145	40620	41095	41570						
		Frequency (MHz)	2497.5	2497.5	2497.5	2497.5	2497.5	Turn-up (dBm)					
		1	0	19.57	19.67	19.54	19.59	19.43	21				
		1	24	19.70	19.99	19.72	19.74	19.75	21				
		1	49	19.42	19.56	19.46	19.46	19.47	21				
		25	0	19.14	19.41	19.30	19.21	19.26	21				
		25	12	19.36	19.47	19.32	19.28	19.28	21				
25	25	19.36	19.42	19.26	19.29	19.11	21						
50	0	19.31	19.58	19.20	19.48	19.34	21						
10M	16QAM	1	0	19.23	19.47	19.18	19.31	19.23	21				
			1	24	19.63	19.59	19.60	19.44	19.54	21			
			1	49	19.27	19.16	19.48	19.18	19.12	21			
			25	0	19.39	19.40	19.34	19.51	19.31	21			
			25	12	19.43	19.46	19.33	19.54	19.31	21			
			25	25	19.35	19.54	19.19	19.35	19.15	2			

Default Power 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	32.39	32.52	32.58	33.50	29.26	29.25	29.34	30.50	
GPRS 1Tx Slot	32.41	32.51	32.60	33.50	29.27	29.24	29.33	30.50	
GPRS 2Tx Slot	29.03	29.11	29.29	30.00	25.66	25.71	25.93	26.50	
GPRS 3Tx Slot	27.55	27.65	27.84	28.50	23.83	23.94	24.17	25.00	
GPRS 4Tx Slot	26.52	26.61	26.79	27.50	22.84	22.99	23.23	24.00	
EDGE 1Tx Slot	27.01	27.03	27.07	28.00	26.08	26.06	26.24	27.00	
EDGE 2Tx Slot	23.72	23.73	23.77	25.00	22.91	22.94	23.22	24.00	
EDGE 3Tx Slot	21.67	21.69	21.72	23.20	21.07	21.10	21.30	22.00	
EDGE 4Tx Slot	20.58	20.63	20.67	22.00	19.91	19.96	20.11	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	
GSM	23.39	23.52	23.58	24.50	20.26	20.25	20.34	21.50
GPRS 1Tx Slot	23.41	23.51	23.60	24.50	20.27	20.24	20.33	21.50
GPRS 2Tx Slot	23.03	23.11	23.29	24.00	19.66	19.71	19.93	20.50
GPRS 3Tx Slot	23.29	23.39	23.58	24.24	19.57	19.68	19.91	20.74
GPRS 4Tx Slot	23.52	23.61	23.79	24.50	19.84	19.99	20.23	21.00
EDGE 1Tx Slot	18.01	18.03	18.07	19.00	17.08	17.06	17.24	18.00
EDGE 2Tx Slot	17.72	17.73	17.77	19.00	16.91	16.94	17.22	18.00
EDGE 3Tx Slot	17.41	17.43	17.46	18.94	16.81	16.84	17.04	17.74
EDGE 4Tx Slot	17.58	17.63	17.67	19.00	16.91	16.96	17.11	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)	
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	24.57	24.61	24.60	25.50	24.67	24.76	24.79	25.50	24.67	24.65	24.62	25.50
HSDPA Subtest-1	23.76	23.77	23.71	24.00	23.85	23.86	23.92	24.00	23.77	23.81	23.80	24.00
HSDPA Subtest-2	23.75	23.76	23.72	24.00	23.78	23.90	23.94	24.00	23.86	23.79	23.76	24.00
HSDPA Subtest-3	23.25	23.29	23.23	24.00	23.34	23.35	23.40	24.00	23.29	23.35	23.26	24.00
HSDPA Subtest-4	23.21	23.27	23.30	24.00	23.36	23.43	23.43	24.00	23.33	23.27	23.25	24.00
DC-HSDPA Subtest-1	23.69	23.79	23.76	24.00	23.79	23.94	23.98	24.00	23.78	23.77	23.73	24.00
DC-HSDPA Subtest-2	23.76	23.79	23.72	24.00	23.85	23.88	23.91	24.00	23.82	23.79	23.74	24.00
DC-HSDPA Subtest-3	23.22	23.29	23.28	24.00	23.33	23.38	23.48	24.00	23.28	23.32	23.30	24.00
DC-HSDPA Subtest-4	23.19	23.30	23.19	24.00	23.32	23.40	23.47	24.00	23.30	23.34	23.22	24.00
HSUPA Subtest-1	21.88	21.92	21.94	23.00	22.05	22.07	22.10	23.00	22.03	22.00	21.94	23.00
HSUPA Subtest-2	21.59	21.69	21.67	23.00	21.69	21.76	21.86	23.00	21.68	21.74	21.71	23.00
HSUPA Subtest-3	22.57	22.52	22.54	23.00	22.60	22.68	22.76	23.00	22.58	22.57	22.51	23.00
HSUPA Subtest-4	21.24	21.31	21.27	23.00	21.36	21.39	21.49	23.00	21.33	21.30	21.27	23.00
HSUPA Subtest-5	22.54	22.55	22.59	23.00	22.57	22.65	22.70	23.00	22.66	22.60	22.60	23.00
HSPA+ Subtest-1	21.80	21.87	21.84	23.00	21.88	22.03	22.02	23.00	21.90	21.91	21.82	23.00

Default Power Ant4

LTE Band 2											
BW	Modulation	Channel				3GPP MPR (dB)	Max. Tx Power (dBm)				
		RB Size	RB Offset	Low	High						
20M	QPSK	1	0	24.10	23.98	23.90	0	25.5			
		1	50	24.37	24.27	24.20	0	25.5			
		1	99	24.64	24.53	24.45	0	25.5			
		50	0	23.20	23.21	23.24	1	24.5			
		50	25	23.27	23.28	23.30	1	24.5			
		50	50	23.34	23.35	23.37	1	24.5			
		100	0	23.22	23.21	23.18	1	24.5			
		1	0	23.29	23.30	23.19	1	24.5			
	16QAM	1	50	23.58	23.61	23.44	1	24.5			
		1	99	23.85	23.88	23.71	1	24.5			
		50	0	22.25	22.36	22.26	2	23.5			
		50	25	22.30	22.33	22.28	2	23.5			
		50	50	22.35	22.38	22.29	2	23.5			
		100	0	22.24	22.31	22.25	2	23.5			
		1	0	22.65	22.36	22.22	2	23.5			
		1	50	22.93	22.63	22.47	2	23.5			
64QAM	1	99	23.61	23.33	23.16	2	23.5				
	50	0	21.23	21.28	21.24	3	22.5				
	50	25	21.29	21.27	21.25	3	22.5				
	50	50	21.35	21.33	21.34	3	22.5				
	100	0	21.19	21.30	21.14	3	22.5				
	Channel										
	18675 18800 19123 3GPP MPR (dB) Max. Tx Power (dBm)										
	1	0	23.99	23.87	23.79	0	25.5				
1	37	24.26	24.16	24.24	0	25.5					
1	74	24.54	24.44	24.52	0	25.5					
36	0	23.13	23.22	23.19	1	24.5					
36	19	23.18	23.19	23.19	1	24.5					
36	39	23.07	23.14	22.98	1	24.5					
75	0	23.18	23.21	23.11	1	24.5					
10M	QPSK	1	0	23.16	23.25	23.03	1	24.5			
		1	37	23.56	23.50	23.37	1	24.5			
		1	74	23.07	23.17	23.07	1	24.5			
		36	0	22.12	22.21	22.12	2	23.5			
		36	19	22.19	22.24	22.21	2	23.5			
		36	39	22.08	22.23	22.07	2	23.5			
		75	0	22.18	22.17	22.05	2	23.5			
		1	0	22.42	22.34	22.14	2	23.5			
	16QAM	1	37	22.85	22.61	22.37	2	23.5			
		1	74	22.48	22.19	22.04	2	23.5			
		36	0	21.22	21.24	21.10	3	22.5			
		36	19	21.28	21.18	21.14	3	22.5			
		36	39	21.11	21.21	21.01	3	22.5			
		75	0	21.13	21.16	21.03	3	22.5			
		Channel									
		18820 18950 19150 3GPP MPR (dB) Max. Tx Power (dBm)									
1	0	24.07	23.97	23.85	0	25.5					
1	24	24.27	24.22	24.16	0	25.5					
1	49	24.33	24.31	24.28	0	25.5					
25	0	23.24	23.29	23.19	1	24.5					
25	12	23.20	23.19	23.28	1	24.5					
25	25	23.05	23.22	22.97	1	24.5					
50	0	23.10	23.17	23.15	1	24.5					
1	0	23.54	23.53	23.05	1	24.5					
1	24	23.54	23.07	23.14	1	24.5					
1	49	23.15	23.15	23.03	1	24.5					
25	0	22.24	22.28	22.12	2	23.5					
25	12	22.23	22.19	22.24	2	23.5					
25	25	22.08	22.29	22.06	2	23.5					
50	0	22.16	22.26	22.00	2	23.5					
1	0	22.61	22.31	22.16	2	23.5					
1	24	22.83	22.58	22.37	2	23.5					
1	49	22.37	22.23	22.14	2	23.5					
25	0	21.18	21.30	21.09	3	22.5					
25	12	21.26	21.25	21.15	3	22.5					
25	25	21.07	21.32	20.98	3	22.5					
50	0	21.17	21.17	21.10	3	22.5					
Channel											
18925 18950 19170 3GPP MPR (dB) Max. Tx Power (dBm)											
1	0	24.02	23.86	23.83	0	25.5					
1	12	24.26	24.19	24.23	0	25.5					
1	24	24.36	24.31	24.33	0	25.5					
12	0	23.07	23.12	23.14	1	24.5					
12	6	23.25	23.11	23.25	1	24.5					
12	13	23.13	23.26	23.09	1	24.5					
25	0	23.17	23.13	23.07	1	24.5					
1	0	23.24	23.28	23.04	1	24.5					
1	12	23.53	23.58	23.37	1	24.5					
1	24	23.44	23.37	23.01	1	24.5					
12	0	22.15	22.25	22.21	2	23.5					
12	6	22.20	22.25	22.17	2	23.5					
12	13	22.16	22.26	21.96	2	23.5					
25	0	22.01	22.16	22.12	2	23.5					
1	0	22.83	22.28	22.21	2	23.5					
1	12	22.88	22.35	22.33	2	23.5					
1	24	22.96	22.38	22.35	2	23.5					
12	0	21.09	21.15	21.18	3	22.5					
12	6	21.15	21.12	21.19	3	22.5					
12	13	21.19	21.28	21.07	3	22.5					
25	0	21.10	21.10	21.10	3	22.5					
Channel											
19015 18950 19193 3GPP MPR (dB) Max. Tx Power (dBm)											
1	0	24.04	23.93	23.82	0	25.5					
1	7	24.29	24.16	24.22	0	25.5					
1	14	24.34	24.33	24.34	0	25.5					
8	0	23.14	23.17	23.14	1	24.5					
8	3	23.25	23.16	23.17	1	24.5					
8	7	23.10	23.11	23.01	1	24.5					
15	0	23.15	23.17	23.11	1	24.5					
3M	16QAM	1	0	23.23	23.16	23.13	1	24.5			
		1	7	23.60	23.56	23.39	1	24.5			
		1	14	23.18	23.28	23.00	1	24.5			
		8	0	22.22	22.34	22.17	2	23.5			
		8	3	22.17	22.29	22.23	2	23.5			
		8	7	22.07	22.32	22.02	2	23.5			
		15	0	22.15	22.18	22.02	2	23.5			
		1	0	22.56	22.23	22.14	2	23.5			
	64QAM	1	7	22.83	22.66	22.41	2	23.5			
		1	14	22.37	22.27	22.09	2	23.5			
		8	0	21.16	21.15	21.18	3	22.5			
		8	3	21.21	21.12	21.16	3	22.5			
		8	7	21.06	21.28	21.05	3	22.5			
		15	0	21.15	21.21	21.11	3	22.5			
		Channel									
		19075 18950 19233 3GPP MPR (dB) Max. Tx Power (dBm)									
1	0	24.03	23.92	23.76	0	25.5					
1	2	24.33	24.21	24.24	0	25.5					
1	5	23.88	23.82	23.80	0	25.5					
3	0	23.25	23.16	23.17	1	24.5					
3	1	24.06	23.99	24.05	0	25.5					
3	3	23.96	23.98	23.81	0	25.5					
6	0	23.18	23.13	23.09	1	24.5					
1	0	23.24	23.28	23.03	1	24.5					
1	2	23.43	23.48	23.38	1	24.5					
1	5	23.06	23.17	23.08	1	24.5					
3	0	22.99	23.14	23.04	1	24.5					
3	1	23.06	23.11	23.04	1	24.5					
3	3	22.96	23.07	22.82	1	24.5					
6	0	22.13	22.24	22.01	2	23.5					
1	0	22.67	22.36	22.15	2	23.5					
1	2	22.80	22.59	22.33	2	23.5					
1	5	22.36	22.21	22.13	2	23.5					
3	0	21.96	22.01	22.06	2	23.5					
3	1	21.97	22.07	22.01	2	23.5					
3	3	21.87	22.03	21.71	2	23.5					
6	0	21.08	21.16	21.11	3	22.5					

LTE Band 4										
BW	Modulation	Channel				3GPP MPR (dB)	Max. Tx Power (dBm)			
		RB Size	RB Offset	Low	High					
20M	QPSK	1	0	24.03	23.98	23.97	0	25.5		
		1	50	24.27	24.24	24.20	0	25.5		
		1	99	24.65	24.64	24.60	0	25.5		
		50	0	23.15	23.30	23.31	1	24.5		
		50	25	23.26	23.25	23.34	1	24.5		
		50	50	23.39	23.39	23.43	1	24.5		
		100	0	23.32	23.27	23.30	1	24.5		
		1	0	23.13	23.20	23.25	1	24.5		
	16QAM	1	50	23.50	23.58	23.63	1	24.5		
		1	99	23.75	23.79	23.77	1	24.5		
		50	0	22.20	22.34	22.42	2	23.5		
		50	25	22.27	22.42	22.45	2	23.5		
		50	50	22.32	22.38	22.36	2	23.5		
		100	0	22.21	22.38	22.37	2	23.5		
		1	0	22.47	22.26	22.29	2	23.5		
		1	50	22.84	22.62	22.63	2	23.5		
64QAM	1	99	23.69	23.59	23.57	2	23.5			
	50	0	21.18	21.30	21.35	3	22.5			
	50	25	21.22	21.39	21.38	3	22.5			
	50	50	21.23	21.33	21.31	3	22.5			
	100	0	21.14	21.31	21.30	3	22.5			
	Channel									
	20825 20715 21033 3GPP MPR (dB) Max. Tx Power (dBm)									
	1	0	23.97	23.89	23.96	0	25.5			
1	37	24.31	24.30	24.24	0	25.5				
1	74	23.96	23.89	23.93	0	25.5				
36	0	23.00	23.21	23.34	1	24.5				
36	19	23.09	23.29	23.42	1	24.5				
36	39	23.13	23.25	23.27	1	24.5				
75	0	23.24	23.23	23.29	1	24.5				
1	0	23.10	23.10	23.12	1	24.5				
1	37	23.47	23.34	23.37	1	24.5				
1	74	23.10	23.15	23.23	1	24.5				
36	0	22.06	22.29	22.37	2	23.5				
36	19	22.13	22.39							

LTE Band 7									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	SCPP	Max. MPR	Max. Time-up (dBm)
				2010	2355	2360			
20M	QPSK	50	0	23.48	23.21	23.12	0	25	
				23.72	23.47	23.45	0	25	
				23.97	23.70	23.69	0	25	
				22.66	22.51	22.40	1	24	
				22.71	22.55	22.44	1	24	
				22.75	22.59	22.48	1	24	
	16QAM	50	0	22.70	22.44	22.32	1	24	
				22.75	22.49	22.38	1	24	
				22.80	22.54	22.43	1	24	
				21.62	21.50	21.35	2	23	
				21.72	21.45	21.40	2	23	
				21.77	21.50	21.40	2	23	
84QAM	50	0	21.64	21.41	21.29	2	23		
			21.69	21.46	21.35	2	23		
			21.74	21.51	21.41	2	23		
			20.57	20.47	20.32	3	22		
			20.70	20.41	20.36	3	22		
			20.75	20.51	20.34	3	22		
	20M	QPSK	50	20.62	20.40	20.30	3	22	
				20.67	20.45	20.35	3	22	
				20.72	20.50	20.40	3	22	
				20.77	20.55	20.45	3	22	
				20.82	20.60	20.50	3	22	
				20.87	20.65	20.55	3	22	
15M	QPSK	36	22.67	22.31	22.24	1	24		
			22.72	22.36	22.24	1	24		
			22.77	22.41	22.28	1	24		
			22.56	22.47	22.34	1	24		
			22.61	22.49	22.36	1	24		
			22.66	22.52	22.26	1	24		
	16QAM	36	0	22.62	22.31	22.24	1	24	
				22.67	22.36	22.24	1	24	
				22.72	22.41	22.28	1	24	
				22.56	22.47	22.34	1	24	
				22.61	22.49	22.36	1	24	
				22.66	22.52	22.26	1	24	
84QAM	36	0	21.47	21.35	21.25	2	23		
			21.52	21.40	21.29	2	23		
			21.57	21.46	21.35	2	23		
			21.46	21.26	21.29	2	23		
			21.51	21.32	21.24	2	23		
			21.56	21.38	21.27	2	23		
8M	QPSK	12	23.42	23.14	23.06	0	25		
			23.47	23.19	23.14	0	25		
			23.52	23.24	23.14	0	25		
			23.18	22.87	23.08	0	25		
			22.56	22.47	22.34	1	24		
			22.61	22.50	22.36	1	24		
	16QAM	12	0	23.37	22.90	22.98	1	24	
				23.42	22.95	23.03	1	24	
				23.47	23.00	23.07	1	24	
				22.88	22.52	22.61	1	24	
				22.41	22.18	22.14	1	24	
				22.46	22.23	22.19	1	24	
84QAM	12	0	21.57	21.35	21.35	2	23		
			21.62	21.41	21.41	2	23		
			21.67	21.46	21.46	2	23		
			21.57	21.26	21.29	2	23		
			21.62	21.32	21.24	2	23		
			21.67	21.38	21.27	2	23		
5M	QPSK	6	23.42	23.09	22.97	0	25		
			23.47	23.14	23.06	0	25		
			23.52	23.19	23.14	0	25		
			23.18	22.87	22.97	1	24		
			22.56	22.42	22.37	1	24		
			22.61	22.47	22.34	1	24		
	16QAM	6	0	23.37	22.90	22.98	1	24	
				23.42	22.95	23.03	1	24	
				23.47	23.00	23.07	1	24	
				22.88	22.52	22.61	1	24	
				22.41	22.18	22.14	1	24	
				22.46	22.23	22.19	1	24	
84QAM	6	0	21.57	21.35	21.35	2	23		
			21.62	21.13	21.13	2	23		
			21.67	21.28	21.22	2	23		
			21.57	21.29	21.30	2	23		
			21.62	21.09	21.02	2	23		
			21.67	21.15	21.08	2	23		
3M	QPSK	3	23.38	23.19	23.06	0	25		
			23.70	23.32	23.42	0	25		
			23.20	23.08	23.15	0	25		
			22.63	22.42	22.27	1	24		
			22.71	22.40	22.43	1	24		
			22.79	22.35	22.26	1	24		
	16QAM	3	0	23.33	22.92	22.92	1	24	
				23.38	22.97	23.07	1	24	
				23.43	23.02	23.11	1	24	
				22.59	22.43	22.29	1	24	
				22.50	22.45	22.62	1	24	
				22.55	22.49	22.66	1	24	
84QAM	3	0	21.59	21.39	21.26	2	23		
			21.70	21.44	21.31	2	23		
			21.80	21.53	21.15	2	23		
			21.69	21.38	21.27	2	23		
			21.54	21.22	21.26	2	23		
			21.85	21.52	21.43	2	23		
16QAM	3	0	21.54	21.17	21.31	2	23		
			21.64	21.17	21.31	2	23		
			21.74	21.17	21.31	2	23		
			20.43	20.46	20.20	3	22		
			20.59	20.30	20.21	3	22		
			20.75	20.16	20.21	3	22		
84QAM	3	0	20.46	20.25	20.26	3	22		
			20.56	20.25	20.26	3	22		
			20.66	20.25	20.26	3	22		
			20.76	20.25	20.26	3	22		
			20.86	20.25	20.26	3	22		
			20.96	20.25	20.26	3	22		

LTE Band 13									
BW	Modulation	RB Size	RB Offset	Mid	SCPP	Max. MPR	Max. Time-up (dBm)		
				742					
10M	QPSK	12	0	24.33	0	25.5			
				24	24.46	24.34	0	25.5	
				24.99	24.31	24.00	0	25.5	
				25	25	23.38	1	24.5	
				25	25	23.42	1	24.5	
				25	25	23.39	1	24.5	
	16QAM	12	0	23.41	1	24.5			
				23.64	1	24.5			
				24	23.86	1	24.5		
				49	23.62	1	24.5		
				25	25	22.51	2	23.5	
				25	25	22.48	2	23.5	
84QAM	12	0	22.50	2	23.5				
			22.55	2	23.5				
			22.60	2	23.5				
			21.37	3	22.5				
			21.33	3	22.5				
			21.31	3	22.5				
5M	QPSK	6	23.95	23.98	23.95	1	24.5		
			23.95	23.98	23.95	1	24.5		
			23.95	23.98	23.95	1	24.5		
			24.28	24.24	24.23	0	25.5		
			23.35	23.32	23.23	1	24.5		
			23.30	23.23	23.30	1	24.5		
	16QAM	6	0	23.27	23.32	23.36	1	24.5	
				23.37	23.39	23.29	1	24.5	
				23.52	23.59	23.59	1	24.5	
				23.81	23.79	23.72	1	24.5	
				24	23.49	23.58	1	24.5	
				24	23.42	23.39	2	23.5	
84QAM	6	0	22.39	22.42	22.42	2	23.5		
			22.44	22.44	22.42	2	23.5		
			22.49	22.49	22.42	2	23.5		
			22.34	22.46	22.42	2	23.5		
			22.47	22.35	22.37	2	23.5		
			22.43	22.42	22.50	2	23.5		
3M	QPSK	3	24.40	24.42	24.27	0	25.5		
			24.40	24.42	24.35	0	25.5		
			24.40	24.42	24.35	0	25.5		
			24.28	24.24	24.23	0	25.5		
			23.35	23.32	23.23	1	24.5		
			23.30	23.23	23.30	1	24.5		
	16QAM	3	0	23.27	23.32	23.36	1	24.5	
				23.37	23.39	23.29	1	24.5	
				23.52	23.59	23.59	1	24.5	
				23.81	23.79	23.72	1	24.5	
				24	23.49	23.58	1	24.5	
				24	23.42	23.39	2	23.5	
84QAM	3	0	22.39	22.42	22.42	2	23.5		
			22.44	22.44	22.42	2	23.5		
			22.49	22.49	22.42	2	23.5		
			22.34	22.46	22.42	2	23.5		
			22.47	22.35	22.37	2	23.5		
			22.43	22.42	22.50	2	23.5		

LTE Band 28									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	SCPP	Max. MPR	Max. Time-up (dBm)
				2815	331.5	341.5			
15M	QPSK	36	0	24.19	24.08	24.03	0	25.5	
				24.37	24.46	24.34	0	25.5	
				24.74	24.66	24.66	0	25.5	
				23.36	23.30	23.22	1	24.5	
				23.19	23.35	23.31	23.25	1	24.5
				23.39	23.28	23.29	23.23	1	24.5
	16QAM	36	0	23.30	23.27	23.22	1	24.5	
				23.48	23.39	23.33	1	24.5	
				23.77	23.60	23.58	1	24.5	
				24.34	24.34	24.31	1	24.5	
				22.34	22.32	22.21	2	23.5	
				22.40	22.31	22.24	2	23.5	
8M	QPSK	12	0	22.36	22.26	22.18	2	23.5	
				22.36	22.26	22.18	2	23.5	
				22.36	22.26	22.18	2	23.5	
				22.45	22.46	21.98	2	23.5	
				22.84	22.49	22.17	2	23.5	
				22.84	22.31	21.84	2	23.5	
	16QAM	12	0	22.43	22.51	21.84	2	23.5	
				22.43	22.51	21.84	2	23.5	
				22.43	22.51	21.84	2	23.5	
				22.45	22.46	21.98	2	23.5	
				22.84	22.49	22.17	2	23.5	
				22.84	22.31	21.84	2	23.5	
5M	QPSK	6	0	24.08	24.04	24.04	0	25.5	
				24.08	24.04	24.04	0	25.5	
				24.08	24.04	24.04	0	25.5	
				24.17	23.96	23.85	0	25.5	
				23.19	23.17	23.08	1	24.5	
				23.20	23.30	23.16</			

LTE Band 33									
BW	Modulation	RB Size		Low	Mid	High	SOPP	Max. Turn-up	Max. Turn-up
		RB Offset	Channel						
20M	QPSK	1		0	23.08	23.38	23.36	0	25
		1		0	23.59	23.48	23.48	0	25
		1		0	23.87	23.68	23.67	0	25
		1		0	23.91	23.24	23.28	0	25
		50		0	22.43	22.51	22.45	1	24
		50		0	22.46	22.46	22.46	1	24
		50		0	22.44	22.44	22.46	1	24
		100		0	22.51	22.58	22.47	1	24
		1		0	22.61	22.66	22.63	1	24
		1		0	22.66	22.85	22.80	1	24
20M	16QAM	1		0	22.59	22.28	22.14	1	24
		1		0	21.68	21.62	21.64	2	23
		1		0	21.58	21.65	21.48	2	23
		50		0	21.49	21.50	21.41	2	23
		100		0	21.54	21.56	21.67	2	23
		1		0	21.51	21.18	21.16	2	23
		1		0	21.25	21.25	21.21	2	23
		1		0	21.19	21.12	21.13	2	23
		50		0	20.39	20.38	20.37	3	22
		50		0	20.46	20.47	20.41	3	22
20M	64QAM	1		0	20.50	20.35	20.29	3	22
		100		0	20.46	20.43	20.38	3	22
		1		0	22.08	22.38	22.36	0	25
		1		0	23.34	23.35	23.37	0	25
		1		0	23.59	23.59	23.57	0	25
		1		0	23.18	23.15	23.07	0	25
		36		0	22.34	22.37	22.36	1	24
		36		19	22.45	22.42	22.31	1	24
		36		39	22.36	22.33	22.31	1	24
		75		0	22.50	22.56	22.58	1	24
10M	QPSK	1		0	22.62	22.30	22.30	1	24
		1		0	22.60	22.56	22.45	1	24
		1		0	22.41	22.13	21.98	2	23
		36		0	21.52	21.41	21.37	2	23
		36		19	21.47	21.54	21.32	2	23
		36		39	21.37	21.44	21.36	2	23
		75		0	21.52	21.43	21.42	2	23
		1		0	21.11	21.14	21.11	2	23
		1		0	21.13	21.15	21.13	2	23
		1		0	21.14	21.18	21.09	2	23
10M	16QAM	1		0	20.24	20.24	20.31	3	22
		36		19	20.44	20.38	20.37	3	22
		36		39	20.21	20.28	20.34	3	22
		75		0	20.34	20.40	20.29	3	22
		1		0	23.24	23.25	23.25	0	25
		1		0	23.24	23.25	23.25	0	25
		1		0	23.24	23.25	23.25	0	25
		1		0	23.24	23.25	23.25	0	25
		1		0	23.24	23.25	23.25	0	25
		1		0	23.24	23.25	23.25	0	25
10M	64QAM	1		0	22.97	22.98	22.94	1	24
		1		0	22.55	22.56	22.48	1	24
		1		0	22.18	22.21	22.01	1	24
		25		0	21.41	21.43	21.36	2	23
		25		12	21.55	21.48	21.38	2	23
		25		26	21.36	21.36	21.33	2	23
		50		0	21.45	21.50	21.40	2	23
		1		0	21.11	21.10	21.07	2	23
		1		0	21.23	21.13	21.14	2	23
		1		0	21.09	21.16	21.05	2	23
5M	QPSK	1		0	20.27	20.39	20.24	3	22
		25		12	20.30	20.41	20.31	3	22
		25		25	20.25	20.34	20.27	3	22
		50		0	20.41	20.28	20.29	3	22
		1		0	23.59	23.59	23.57	0	25
		1		0	23.59	23.59	23.57	0	25
		1		0	23.59	23.59	23.57	0	25
		1		0	23.59	23.59	23.57	0	25
		1		0	23.59	23.59	23.57	0	25
		1		0	23.59	23.59	23.57	0	25
5M	16QAM	1		0	22.57	22.62	22.51	0	25
		1		0	22.30	22.40	22.43	1	24
		12		0	22.42	22.54	22.51	1	24
		12		13	22.52	22.41	22.31	1	24
		25		0	22.50	22.44	22.33	1	24
		1		0	22.28	22.38	22.37	1	24
		1		0	22.54	22.67	22.63	1	24
		1		0	22.15	22.14	22.08	1	24
		12		0	21.44	21.45	21.29	2	23
		12		6	21.60	21.40	21.46	2	23
5M	64QAM	1		0	21.33	21.11	21.14	2	23
		12		13	21.39	21.48	21.27	2	23
		25		0	21.45	21.51	21.40	2	23
		1		0	21.13	21.09	21.11	2	23
		1		0	21.17	21.13	21.10	2	23
		10		0	20.36	20.39	20.35	3	22
		12		6	20.38	20.38	20.35	3	22
		12		13	20.21	20.25	20.28	3	22
		25		0	20.34	20.39	20.34	3	22

LTE Band 41 (2486 - 2600MHz)											
BW	Modulation	RB Size		Low	Low Mid	Mid	High Mid	High	SOPP	Max. Turn-up	
		RB Offset	Channel								Frequency (MHz)
20M	QPSK	1		0	23.54	23.15	23.38	23.11	23.13	0	25
		1		0	23.83	23.83	23.83	23.83	0	25	
		1		0	23.34	23.12	23.17	23.13	23.10	0	25
		50		0	22.49	22.22	22.43	22.17	22.22	1	24
		50		0	22.54	22.26	22.41	22.09	22.15	1	24
		50		0	22.53	22.24	22.41	22.09	22.15	1	24
		100		0	22.65	22.30	22.52	22.20	22.22	1	24
		1		0	22.61	22.38	22.49	22.23	22.24	1	24
		1		0	22.75	22.46	22.68	22.38	22.39	1	24
		1		0	22.99	22.13	22.18	22.11	22.21	1	24
20M	16QAM	1		0	21.53	21.33	21.48	21.37	21.35	2	23
		50		0	21.60	21.34	21.50	21.25	21.25	2	23
		50		0	21.58	21.29	21.42	21.13	21.23	2	23
		100		0	21.61	21.38	21.49	21.23	21.24	2	23
		1		0	21.13	21.25	21.28	21.14	21.23	2	23
		1		0	21.38	21.38	21.22	21.17	21.18	2	23
		1		0	21.18	21.12	21.13	21.09	21.02	2	23
		50		0	20.47	20.25	20.44	20.20	20.21	3	22
		50		0	20.52	20.30	20.44	20.20	20.23	3	22
		50		0	20.51	20.22	20.34	20.17	20.18	3	22
20M	64QAM	100		0	20.58	20.28	20.44	20.21	20.20	3	22
		1		0	23.53	23.53	23.52	23.58	23.11	0	25
		1		0	23.66	23.36	23.51	23.36	23.41	0	25
		1		0	23.33	23.07	23.04	23.08	23.05	0	25
		36		0	22.34	22.37	22.37	22.37	22.36	1	24
		36		19	22.50	22.34	22.32	22.09	22.15	1	24
		36		39	22.41	22.20	22.32	22.08	22.09	1	24
		75		0	22.52	22.28	22.41	22.22	22.13	1	24
		1		0	22.42	22.30	22.31	22.11	22.09	1	24
		1		0	22.60	22.36	22.53	22.33	22.30	1	24
10M	QPSK	1		0	22.09	22.01	22.08	22.05	22.20	1	24
		36		0	21.38	21.52	21.36	21.35	21.19	2	23
		36		19	21.53	21.20	21.41	21.22	21.18	2	23
		36		39	21.51	21.19	21.36	21.04	21.09	2	23
		75		0	21.58	21.28	21.40	21.27	21.09	2	23
		1		0	21.23	21.20	21.16	21.14	21.09	2	23
		1		0	21.37	21.04	21.07	21.08	21.02	2	23
		1		0	21.15	21.01	21.02	21.01	21.01	2	23
		36		0	20.37	20.24	20.25	20.05	20.07	3	22
		36		19	20.47	20.28	20.43	20.05	20.14	3	22
10M	16QAM	36		0	20.48	20.12	20.16	20.16	3	22	
		75		0	20.44	20.20	20.40	20.13	3	22	
		1		0	23.52	23.52	23.52	23.52	23.11	0	25
		1		0	23.52	23.52	23.52	23.52	23.11	0	25
		1		0	23.52	23.52	23.52	23.52	23.11	0	25
		1		0	23.52	23.52	23.52	23.52	23.11	0	25
		1		0	23.52	23.52	23.52	23.52	23.11	0	25
		1		0	23.52	23.52	23.52	23.52	23.11	0	25
		1		0	23.52	23.52	23.52	23.52	23.11	0	25
		1		0	23.52	23.52	23.52	23.52	23.11	0	25
10M	QPSK	1		0	22.45	22.10	22.36	22.10	22.05	1	24
		1		0	22.70	22.32	22.60	22.31	22.37	1	24
		1		0	22.08	22.05	22.17	22.05	22.13	1	24
		25		0	21.4						

GSM&WCDMA_DSI-1

Ant4

Band	GSM850				GSM1900			
	Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8	
GSM	32.39	32.52	32.58	33.50	25.43	25.56	25.76	26.50
GPRS 1Tx Slot	32.41	32.51	32.60	33.50	25.03	25.42	25.31	26.50
GPRS 2Tx Slot	29.03	29.11	29.29	30.00	20.62	20.58	20.81	22.50
GPRS 3Tx Slot	27.55	27.65	27.84	28.50	19.13	19.08	19.34	21.00
GPRS 4Tx Slot	26.52	26.61	26.79	27.50	18.07	18.11	18.33	20.00
EDGE 1Tx Slot	27.01	27.03	27.07	28.00	24.99	24.90	25.11	26.00
EDGE 2Tx Slot	23.72	23.73	23.77	25.00	19.99	19.97	20.06	21.00
EDGE 3Tx Slot	21.67	21.69	21.72	23.20	17.98	17.95	18.04	19.00
EDGE 4Tx Slot	20.58	20.63	20.67	22.00	16.77	16.75	16.94	18.00

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)
	Channel	128	189		251	512	661	
GSM	23.39	23.52	23.58	24.50	16.43	16.56	16.76	17.50
GPRS 1Tx Slot	23.41	23.51	23.60	24.50	16.03	16.42	16.31	17.50
GPRS 2Tx Slot	23.03	23.11	23.29	24.00	14.62	14.58	14.81	16.50
GPRS 3Tx Slot	23.29	23.39	23.58	24.24	14.87	14.82	15.08	16.74
GPRS 4Tx Slot	23.52	23.61	23.79	24.50	15.07	15.11	15.33	17.00
EDGE 1Tx Slot	18.01	18.03	18.07	19.00	15.99	15.90	16.11	17.00
EDGE 2Tx Slot	17.72	17.73	17.77	19.00	13.99	13.97	14.06	15.00
EDGE 3Tx Slot	17.41	17.43	17.46	18.94	13.72	13.69	13.78	14.74
EDGE 4Tx Slot	17.58	17.63	17.67	19.00	13.77	13.75	13.94	15.00

Band	WCDMA II			WCDMA II	WCDMA IV			WCDMA IV	WCDMA V			WCDMA V
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6	Max. Tune-up Power (dBm)	1712.4	1732.6	1752.6	Max. Tune-up Power (dBm)	826.4	836.4	846.6	Max. Tune-up Power (dBm)
RMC 12.2K	15.15	15.19	15.08	16.00	15.50	15.57	15.65	16.50	23.55	23.78	23.50	24.50
HSDPA Subtest-1	14.33	14.36	14.33	14.50	14.43	14.61	14.56	15.00	22.74	22.63	22.62	23.00
HSDPA Subtest-2	14.21	14.14	14.27	14.50	14.51	14.45	14.51	15.00	22.73	22.66	22.66	23.00
HSDPA Subtest-3	13.64	13.87	13.83	14.50	14.04	14.15	14.04	15.00	22.21	22.18	22.10	23.00
HSDPA Subtest-4	13.70	13.70	13.88	14.50	14.13	14.17	14.06	15.00	22.08	22.18	22.21	23.00
DC-HSDPA Subtest-1	14.21	14.30	14.21	14.50	14.51	14.60	14.74	15.00	22.59	22.67	22.64	23.00
DC-HSDPA Subtest-2	14.22	14.35	14.11	14.50	14.41	14.62	14.58	15.00	22.59	22.62	22.57	23.00
DC-HSDPA Subtest-3	13.72	13.85	13.76	14.50	13.98	14.06	14.13	15.00	22.01	22.07	22.08	23.00
DC-HSDPA Subtest-4	13.63	13.78	13.66	14.50	14.10	14.04	14.08	15.00	22.20	22.21	22.13	23.00
HSUPA Subtest-1	12.37	12.49	12.36	13.50	12.78	12.79	12.95	14.00	20.78	20.82	20.78	22.00
HSUPA Subtest-2	12.12	12.21	12.10	13.50	12.49	12.67	12.82	14.00	20.48	20.51	20.64	22.00
HSUPA Subtest-3	13.09	13.10	12.93	13.50	13.58	13.49	13.58	14.00	21.39	21.40	21.47	22.00
HSUPA Subtest-4	11.66	11.77	11.69	13.50	12.33	12.19	12.32	14.00	20.41	20.35	20.27	22.00
HSUPA Subtest-5	13.02	13.02	13.10	13.50	13.41	13.50	13.49	14.00	21.55	21.49	21.50	22.00
HSPA+ Subtest-1	12.38	12.37	12.37	13.50	12.68	12.93	12.97	14.00	20.75	20.71	20.60	22.00

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	32.39	32.52	32.58	33.50	29.26	29.25	29.34	30.50	
GPRS 1Tx Slot	32.41	32.51	32.60	33.50	29.27	29.24	29.33	30.50	
GPRS 2Tx Slot	29.03	29.11	29.29	30.00	25.66	25.71	25.93	26.50	
GPRS 3Tx Slot	27.55	27.65	27.84	28.50	23.83	23.94	24.17	25.00	
GPRS 4Tx Slot	26.52	26.61	26.79	27.50	22.84	22.99	23.23	24.00	
EDGE 1Tx Slot	27.01	27.03	27.07	28.00	26.08	26.06	26.24	27.00	
EDGE 2Tx Slot	23.72	23.73	23.77	25.00	22.91	22.94	23.22	24.00	
EDGE 3Tx Slot	21.67	21.69	21.72	23.20	21.07	21.10	21.30	22.00	
EDGE 4Tx Slot	20.58	20.63	20.67	22.00	19.91	19.96	20.11	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	
GSM	23.39	23.52	23.58	24.50	20.26	20.25	20.34	21.50
GPRS 1Tx Slot	23.41	23.51	23.60	24.50	20.27	20.24	20.33	21.50
GPRS 2Tx Slot	23.03	23.11	23.29	24.00	19.66	19.71	19.93	20.50
GPRS 3Tx Slot	23.29	23.39	23.58	24.24	19.57	19.68	19.91	20.74
GPRS 4Tx Slot	23.52	23.61	23.79	24.50	19.84	19.99	20.23	21.00
EDGE 1Tx Slot	18.01	18.03	18.07	19.00	17.08	17.06	17.24	18.00
EDGE 2Tx Slot	17.72	17.73	17.77	19.00	16.91	16.94	17.22	18.00
EDGE 3Tx Slot	17.41	17.43	17.46	18.94	16.81	16.84	17.04	17.74
EDGE 4Tx Slot	17.58	17.63	17.67	19.00	16.91	16.96	17.11	18.00

Band	WCDMA II			WCDMA II Max. Tune-up Power (dBm)	WCDMA IV			WCDMA IV Max. Tune-up Power (dBm)	WCDMA V			WCDMA V Max. Tune-up Power (dBm)
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182	
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	22.49	22.54	22.52	23.50	22.46	22.63	22.68	23.50	24.67	24.65	24.62	25.50
HSDPA Subtest-1	21.48	21.38	21.39	22.00	21.43	21.49	21.57	22.00	23.77	23.81	23.80	24.00
HSDPA Subtest-2	21.46	21.55	21.46	22.00	21.43	21.55	21.63	22.00	23.86	23.79	23.76	24.00
HSDPA Subtest-3	20.93	20.90	20.81	22.00	21.05	20.94	20.99	22.00	23.29	23.35	23.26	24.00
HSDPA Subtest-4	20.90	21.05	20.93	22.00	20.98	21.12	21.11	22.00	23.33	23.27	23.25	24.00
DC-HSDPA Subtest-1	21.27	21.42	21.43	22.00	21.49	21.54	21.55	22.00	23.78	23.77	23.73	24.00
DC-HSDPA Subtest-2	21.39	21.50	21.31	22.00	21.57	21.54	21.62	22.00	23.82	23.79	23.74	24.00
DC-HSDPA Subtest-3	20.91	21.04	20.98	22.00	20.92	21.00	21.01	22.00	23.28	23.32	23.30	24.00
DC-HSDPA Subtest-4	20.92	20.87	20.93	22.00	20.89	20.90	21.02	22.00	23.30	23.34	23.22	24.00
HSUPA Subtest-1	19.73	19.81	19.95	21.00	19.81	19.99	19.94	21.00	22.03	22.00	21.94	23.00
HSUPA Subtest-2	19.46	19.47	19.51	21.00	19.50	19.64	19.78	21.00	21.68	21.74	21.71	23.00
HSUPA Subtest-3	20.47	20.32	20.35	21.00	20.39	20.60	20.57	21.00	22.58	22.57	22.51	23.00
HSUPA Subtest-4	19.19	19.23	19.18	21.00	19.18	19.24	19.33	21.00	21.33	21.30	21.27	23.00
HSUPA Subtest-5	20.43	20.40	20.46	21.00	20.40	20.57	20.63	21.00	22.66	22.60	22.60	23.00
HSPA+ Subtest-1	19.65	19.87	19.73	21.00	19.62	19.90	19.85	21.00	21.90	21.91	21.82	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	32.39	32.52	32.58	33.50	26.99	27.08	27.21	28.00	
GPRS 1Tx Slot	32.41	32.51	32.60	33.50	26.67	26.97	26.86	28.00	
GPRS 2Tx Slot	29.03	29.11	29.29	30.00	22.14	22.23	22.37	24.00	
GPRS 3Tx Slot	27.55	27.65	27.84	28.50	20.67	20.73	20.91	22.50	
GPRS 4Tx Slot	26.52	26.61	26.79	27.50	19.57	19.68	19.73	21.50	
EDGE 1Tx Slot	27.01	27.03	27.07	28.00	24.93	25.02	25.07	26.00	
EDGE 2Tx Slot	23.72	23.73	23.77	25.00	22.81	22.89	22.87	24.00	
EDGE 3Tx Slot	21.67	21.69	21.72	23.20	20.97	21.02	21.40	22.00	
EDGE 4Tx Slot	20.58	20.63	20.67	22.00	19.77	19.81	19.90	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	
GSM	23.39	23.52	23.58	24.50	17.99	18.08	18.21	19.00
GPRS 1Tx Slot	23.41	23.51	23.60	24.50	17.67	17.97	17.86	19.00
GPRS 2Tx Slot	23.03	23.11	23.29	24.00	16.14	16.23	16.37	18.00
GPRS 3Tx Slot	23.29	23.39	23.58	24.24	16.41	16.47	16.65	18.24
GPRS 4Tx Slot	23.52	23.61	23.79	24.50	16.57	16.68	16.73	18.50
EDGE 1Tx Slot	18.01	18.03	18.07	19.00	15.93	16.02	16.07	17.00
EDGE 2Tx Slot	17.72	17.73	17.77	19.00	16.81	16.89	16.87	18.00
EDGE 3Tx Slot	17.41	17.43	17.46	18.94	16.71	16.76	17.14	17.74
EDGE 4Tx Slot	17.58	17.63	17.67	19.00	16.77	16.81	16.90	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)	
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	17.52	17.56	17.53	18.50	19.12	19.16	19.22	20.00	24.67	24.65	24.62	25.50
HSDPA Subtest-1	16.58	16.51	16.45	17.00	18.08	18.08	18.22	18.50	23.77	23.81	23.80	24.00
HSDPA Subtest-2	16.46	16.48	16.50	17.00	17.98	18.10	18.24	18.50	23.86	23.79	23.76	24.00
HSDPA Subtest-3	16.09	16.11	15.97	17.00	17.64	17.65	17.63	18.50	23.29	23.35	23.26	24.00
HSDPA Subtest-4	15.93	16.06	16.14	17.00	17.63	17.68	17.69	18.50	23.33	23.27	23.25	24.00
DC-HSDPA Subtest-1	16.46	16.54	16.56	17.00	18.12	18.20	18.23	18.50	23.78	23.77	23.73	24.00
DC-HSDPA Subtest-2	16.51	16.50	16.47	17.00	18.13	18.09	18.11	18.50	23.82	23.79	23.74	24.00
DC-HSDPA Subtest-3	16.04	16.06	16.12	17.00	17.63	17.61	17.70	18.50	23.28	23.32	23.30	24.00
DC-HSDPA Subtest-4	15.97	16.00	16.00	17.00	17.62	17.70	17.76	18.50	23.30	23.34	23.22	24.00
HSUPA Subtest-1	14.80	14.81	14.88	16.00	16.47	16.50	16.58	17.50	22.03	22.00	21.94	23.00
HSUPA Subtest-2	14.44	14.65	14.54	16.00	16.04	16.21	16.35	17.50	21.68	21.74	21.71	23.00
HSUPA Subtest-3	15.55	15.46	15.52	16.00	17.09	17.06	17.20	17.50	22.58	22.57	22.51	23.00
HSUPA Subtest-4	14.21	14.18	14.26	16.00	15.82	15.86	15.94	17.50	21.33	21.30	21.27	23.00
HSUPA Subtest-5	15.42	15.41	15.58	16.00	17.03	17.10	17.07	17.50	22.66	22.60	22.60	23.00
HSPA+ Subtest-1	14.65	14.81	14.72	16.00	16.37	16.47	16.47	17.50	21.90	21.91	21.82	23.00

LTE_DSI-1 Ant4

BW	Modulation	LTE Band 2					
		Channel		Low	Mid	High	Max. Tune-up (dBm)
		RB Size	RB Offset				
20M	QPSK	1	0	14.49	14.43	14.31	16
		1	50	14.78	14.68	14.72	16
		1	99	14.34	14.36	14.27	16
		50	0	14.51	14.55	14.51	16
		50	25	14.69	14.53	14.61	16
	16QAM	50	50	14.57	14.51	14.43	16
		100	0	14.58	14.61	14.51	16
		1	0	14.68	14.64	14.45	16
		1	50	14.75	14.51	14.69	16
		1	99	14.60	14.56	14.46	16
	64QAM	50	0	14.65	14.64	14.57	16
		50	25	14.58	14.60	14.55	16
		50	50	14.59	14.68	14.35	16
		100	0	14.63	14.62	14.49	16
		1	0	14.70	14.64	14.51	16
15M	QPSK	1	0	14.27	14.54	14.47	16
		1	50	14.27	14.54	14.47	16
		1	99	14.73	14.62	14.47	16
		50	0	14.53	14.63	14.51	16
		50	25	14.59	14.54	14.63	16
	16QAM	50	50	14.64	14.68	14.36	16
		100	0	14.57	14.69	14.54	16
		1	0	14.38	14.28	14.29	16
		1	37	14.76	14.63	14.59	16
		1	74	14.21	14.22	14.29	16
	64QAM	36	0	14.37	14.48	14.43	16
		36	19	14.50	14.46	14.48	16
		36	39	14.45	14.46	14.32	16
		75	0	14.46	14.50	14.38	16
		1	0	14.55	14.60	14.60	16
10M	QPSK	1	0	14.38	14.28	14.29	16
		1	37	14.76	14.63	14.59	16
		1	74	14.21	14.22	14.29	16
		36	0	14.37	14.48	14.43	16
		36	19	14.50	14.46	14.48	16
	16QAM	36	39	14.45	14.46	14.32	16
		75	0	14.46	14.50	14.38	16
		1	0	14.55	14.60	14.60	16
		1	37	14.73	14.38	14.60	16
		1	74	14.39	14.44	14.44	16
	64QAM	36	0	14.53	14.62	14.51	16
		36	19	14.47	14.49	14.41	16
		36	39	14.44	14.48	14.36	16
		75	0	14.62	14.59	14.47	16
		1	0	14.63	14.55	14.48	16
5M	QPSK	1	0	14.34	14.34	14.27	16
		1	12	14.68	14.56	14.61	16
		1	24	14.18	14.23	14.15	16
		12	0	14.38	14.46	14.50	16
		12	6	14.57	14.41	14.57	16
	16QAM	12	13	14.46	14.43	14.36	16
		25	0	14.53	14.54	14.43	16
		1	0	14.53	14.58	14.43	16
		1	12	14.71	14.41	14.60	16
		1	24	14.42	14.49	14.31	16
	64QAM	12	6	14.56	14.54	14.44	16
		12	13	14.47	14.48	14.32	16
		25	0	14.56	14.52	14.46	16
		1	0	14.56	14.60	14.38	16
		1	12	14.16	14.48	14.44	16
3M	QPSK	1	0	14.38	14.40	14.16	16
		1	7	14.70	14.61	14.62	16
		1	14	14.27	14.25	14.25	16
		8	0	14.38	14.53	14.38	16
		8	3	14.55	14.38	14.48	16
	16QAM	8	7	14.55	14.42	14.40	16
		15	0	14.54	14.57	14.39	16
		1	0	14.58	14.59	14.38	16
		1	7	14.64	14.38	14.68	16
		1	14	14.36	14.42	14.34	16
	64QAM	8	0	14.60	14.54	14.45	16
		8	3	14.49	14.47	14.40	16
		8	7	14.58	14.59	14.30	16
		15	0	14.48	14.47	14.43	16
		1	0	14.57	14.61	14.45	16
1.4M	QPSK	1	0	14.40	14.38	14.22	16
		1	2	14.66	14.63	14.67	16
		1	5	14.33	14.26	14.24	16
		3	0	14.40	14.49	14.36	16
		3	1	14.46	14.49	14.57	16
	16QAM	3	3	14.52	14.40	14.42	16
		6	0	14.47	14.53	14.43	16
		1	0	14.64	14.62	14.39	16
		1	2	14.65	14.41	14.60	16
		1	5	14.49	14.52	14.44	16
	64QAM	3	0	14.58	14.55	14.49	16
		3	1	14.51	14.48	14.41	16
		3	3	14.57	14.56	14.30	16
		6	0	14.56	14.61	14.42	16
		1	0	14.67	14.56	14.38	16

BW	Modulation	LTE Band 4					
		Channel		Low	Mid	High	Max. Tune-up (dBm)
		RB Size	RB Offset				
20M	QPSK	1	0	14.85	14.80	14.77	16.5
		1	50	14.87	15.12	15.19	16.5
		1	99	14.92	14.92	14.80	16.5
		50	0	14.74	14.96	14.99	16.5
		50	25	14.97	14.87	15.04	16.5
	16QAM	50	50	14.87	14.96	14.92	16.5
		100	0	15.02	14.92	15.00	16.5
		1	0	14.71	14.82	14.82	16.5
		1	50	14.94	15.07	15.13	16.5
		1	99	14.81	14.96	14.99	16.5
	64QAM	50	0	14.76	14.75	14.84	16.5
		50	25	14.69	14.91	14.83	16.5
		50	50	14.72	14.83	14.77	16.5
		100	0	14.81	14.74	14.82	16.5
		1	0	14.88	14.70	14.78	16.5
15M	QPSK	1	0	14.71	14.68	14.73	16.5
		1	37	15.22	15.11	15.05	16.5
		1	74	14.80	14.79	14.67	16.5
		36	0	14.61	14.82	14.91	16.5
		36	19	14.85	14.89	14.90	16.5
	16QAM	36	39	14.84	14.92	14.85	16.5
		75	0	14.98	14.91	14.96	16.5
		1	0	14.87	14.73	14.69	16.5
		1	37	14.87	14.97	15.01	16.5
		1	74	14.90	14.94	14.78	16.5
	64QAM	36	0	14.65	14.60	14.76	16.5
		36	19	14.63	14.84	14.79	16.5
		36	39	14.69	14.71	14.73	16.5
		75	0	14.75	14.69	14.67	16.5
		1	0	14.88	14.58	14.68	16.5
10M	QPSK	1	0	14.84	14.73	14.72	16.5
		1	24	15.13	15.09	15.05	16.5
		1	49	14.91	14.85	14.78	16.5
		25	0	14.68	14.93	14.97	16.5
		25	12	14.96	14.93	15.03	16.5
	16QAM	25	25	14.73	14.85	14.89	16.5
		50	0	14.99	14.79	14.94	16.5
		1	0	14.62	14.73	14.81	16.5
		1	24	14.92	15.04	15.04	16.5
		1	49	14.85	14.86	14.84	16.5
	64QAM	25	0	14.81	14.64	14.83	16.5
		25	12	14.62	14.81	14.78	16.5
		25	25	14.61	14.68	14.75	16.5
		50	0	14.72	14.70	14.72	16.5
		1	0	14.86	14.65	14.65	16.5
5M	QPSK	1	0	14.84	14.73	14.72	16.5
		1	24	15.13	15.09	15.05	16.5
		1	49	14.91	14.85	14.78	16.5
		25	0	14.68	14.93	14.97	16.5
		25	12	14.96	14.93	15.03	16.5
	16QAM	25	25	14.73	14.85	14.89	16.5
		50	0	14.99	14.79	14.94	16.5
		1	0	14.62	14.73	14.81	16.5
		1	24	14.92	15.04	15.04	16.5
		1	49	14.85	14.86	14.84	16.5
	64QAM	25	0	14.81	14.64	14.83	16.5
		25	12	14.62	14.81	14.78	16.5
		25	25	14.61	14.68	14.75	16.5
		50	0	14.72	14.70	14.72	16.5
		1	0	14.86	14.65	14.65	16.5
3M	QPSK	1	0	14.84	14.73	14.72	16.5
		1	24	15.13	15.09	15.05	16.5
		1	49	14.91	14.85	14.78	16.5
		25	0	14.68	14.93	14.97	16.5
		25	12	14.96	14.93	15.03	16.5
	16QAM	25	25	14.73	14.85	14.89	16.5
		50	0	14.99	14.79	14.94	16.5
		1	0	14.62	14.73	14.81	16.5
		1	24	14.92	15.04	15.04	16.5
		1	49	14.85	14.86	14.84	16.5
	64QAM	25	0	14.81	14.64	14.83	16.5
		25	12	14.62	14.81	14.78	16.5
		25	25	14.61	14.68	14.75	16.5
		50	0	14.72	14.70	14.72	16.5
		1	0	14.86	14.65	14.65	16.5
1.4M	QPSK	1	0	14.84	14.73	14.72	16.5
		1	7	15.19	15.10	15.12	16.5
		1	14	14.61	14.66	14.78	16.5
		8	0	14.73	14.92	14.98	16.5
		8	3	14.97	14.91	15.02	16.5
	16QAM	8	7	14.75	14.86	14.88	16.5
		15	0	14.95	14.84	14.90	16.5
		1	0	14.58	14.75	14.78	16.5
		1	7	14.88	15.03	15.04	16.5
		1	14	14.84	14.88	14.85	16.5
	64QAM	8	0	14.61	14.67	14.76	16.5
		8	3	14.85	14.88	14.73	16.5
		8	7	14.57	14.74	14.63	16.5
		15</					

LTE Band 7										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)			
		Channel		2985	2995	3005				
20M	QPSK	1	0	16.30	16.00	15.90	17.5			
		1	50	16.31	16.06	16.01	17.5			
		1	99	16.04	15.83	15.93	17.5			
		50	0	16.14	16.03	15.93	17.5			
		50	25	16.24	16.15	15.98	17.5			
		50	50	16.17	16.08	15.97	17.5			
		100	0	16.26	16.23	16.07	17.5			
		16QAM	1	0	16.14	16.23	16.00	17.5		
			1	50	16.11	16.03	16.18	17.5		
			1	99	16.22	16.02	15.92	17.5		
			50	25	16.04	15.85	15.86	17.5		
			50	50	15.96	15.94	15.93	17.5		
	100		0	16.01	15.86	15.85	17.5			
	64QAM		1	0	15.90	15.94	15.90	17.5		
			1	50	16.20	15.83	15.85	17.5		
			1	99	15.89	15.99	15.99	17.5		
			50	25	16.15	15.97	15.82	17.5		
			50	50	16.15	15.97	15.82	17.5		
			100	0	16.17	15.88	15.82	17.5		
		15M	QPSK	1	0	16.18	15.94	15.86	17.5	
				1	37	16.23	15.95	15.90	17.5	
				1	74	15.96	15.80	15.86	17.5	
				36	0	16.11	15.98	15.87	17.5	
				36	19	16.20	16.08	15.83	17.5	
				36	39	16.07	15.99	15.95	17.5	
	75			0	16.18	16.16	15.97	17.5		
	16QAM			1	0	16.08	16.20	16.02	17.5	
				1	37	16.02	16.00	16.12	17.5	
				1	74	16.11	15.89	15.85	17.5	
				36	0	15.93	15.74	15.75	17.5	
				36	19	15.96	15.71	15.59	17.5	
			36	39	15.96	15.83	15.89	17.5		
			75	0	15.99	16.20	15.92	17.5		
			64QAM	1	0	15.78	15.90	15.78	17.5	
				1	37	16.10	15.88	15.79	17.5	
				1	74	15.88	15.95	15.96	17.5	
				36	0	15.79	15.61	15.75	17.5	
				36	19	16.03	15.85	15.67	17.5	
	36			39	16.14	15.73	15.77	17.5		
	75			0	16.14	15.84	15.77	17.5		
	10M			QPSK	1	0	16.23	15.85	15.90	17.5
					1	24	16.19	15.93	15.93	17.5
					1	49	15.99	15.76	15.79	17.5
					25	0	16.04	16.01	15.86	17.5
					25	12	16.14	16.09	15.90	17.5
			25		25	16.14	16.06	15.95	17.5	
			50		0	16.18	16.18	15.97	17.5	
			16QAM		1	0	16.13	16.11	15.95	17.5
1					24	16.00	15.97	16.06	17.5	
1					49	16.17	16.01	15.84	17.5	
25					0	15.91	15.71	15.71	17.5	
25					12	16.03	15.76	15.55	17.5	
25				25	15.95	15.79	15.79	17.5		
50				0	15.94	15.64	15.74	17.5		
64QAM				1	0	15.77	15.87	15.79	17.5	
				1	24	16.06	15.81	15.74	17.5	
				1	49	15.80	15.95	15.85	17.5	
				25	0	15.90	15.64	15.84	17.5	
				25	12	16.02	15.93	15.89	17.5	
			25	25	16.14	15.73	15.81	17.5		
			50	0	16.11	15.87	15.77	17.5		
			5M	QPSK	1	0	16.27	15.86	15.83	17.5
					1	12	16.20	16.00	15.86	17.5
					1	24	15.90	15.68	15.91	17.5
					12	0	15.99	16.01	15.78	17.5
					12	6	16.23	16.01	15.82	17.5
12					13	16.12	16.03	15.91	17.5	
25		0			16.11	16.22	16.03	17.5		
16QAM		1			0	16.11	16.21	15.99	17.5	
		1			12	16.10	15.94	16.08	17.5	
		1			24	16.14	16.01	15.91	17.5	
		12			0	15.92	15.68	15.74	17.5	
		12			6	15.92	15.75	15.58	17.5	
		12		13	15.89	15.92	15.90	17.5		
		25		0	15.99	15.63	15.80	17.5		
		64QAM		1	0	15.79	15.92	15.82	17.5	
				1	12	16.08	15.81	15.75	17.5	
				1	24	15.80	15.94	15.94	17.5	
				12	0	15.93	15.65	15.77	17.5	
				12	6	16.01	15.82	15.74	17.5	
12				13	16.11	15.67	15.80	17.5		
25				0	16.07	15.84	15.80	17.5		

LTE Band 13									
BW	Modulation	RB Size	RB Offset	Mid	Max. Tune-up (dBm)				
		Channel		2329					
10M	QPSK	1	0	24.33	25.5				
		1	24	24.46	25.5				
		1	49	24.31	25.5				
		25	0	23.38	24.5				
		25	12	23.42	24.5				
		25	25	23.39	24.5				
		50	0	23.41	24.5				
		16QAM	1	0	23.64	24.5			
			1	24	23.88	24.5			
			1	49	23.62	24.5			
			25	0	22.51	23.5			
			25	12	22.49	23.5			
	25		25	22.47	23.5				
	50		0	22.50	23.5				
	64QAM		1	0	22.55	23.5			
			1	24	22.77	23.5			
			1	49	22.55	23.5			
			25	0	21.37	22.5			
			25	12	21.33	22.5			
		25	25	21.31	22.5				
		50	0	21.35	22.5				
		5M	QPSK	1	0	24.32	24.27	25.5	
				1	12	24.40	24.42	24.35	25.5
				1	24	24.28	24.24	24.23	25.5
				12	0	23.35	23.32	23.23	24.5
				12	6	23.30	23.23	23.30	24.5
	12			13	23.27	23.32	23.36	24.5	
	25			0	23.37	23.39	23.29	24.5	
	16QAM			1	0	23.52	23.59	23.59	24.5
				1	12	23.81	23.79	23.72	24.5
				1	24	23.49	23.58	23.60	24.5
				12	0	22.48	22.44	22.39	23.5
				12	6	22.39	22.42	22.42	23.5
			12	13	22.34	22.46	22.42	23.5	
			25	0	22.47	22.35	22.37	23.5	
			64QAM	1	0	22.43	22.42	22.50	23.5
				1	12	22.69	22.73	22.75	23.5
				1	24	22.41	22.40	22.46	23.5
				12	0	21.29	21.22	21.32	22.5
				12	6	21.23	21.31	21.22	22.5
	12			13	21.23	21.18	21.16	22.5	
	25			0	21.21	21.25	21.25	22.5	

LTE Band 26										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)			
		Channel		8515	8515	8415				
15M	QPSK	1	0	22.97	22.95	23.06	24.5			
		1	37	23.36	23.14	23.17	24.5			
		1	74	22.93	22.98	22.95	24.5			
		36	0	23.00	22.86	22.93	24.5			
		36	19	23.18	23.08	23.11	24.5			
		36	39	22.90	22.95	22.93	24.5			
		75	0	23.01	22.85	22.86	24.5			
		16QAM	1	0	22.85	22.95	22.77	24.5		
			1	37	22.78	22.80	22.91	24.5		
			1	74	22.96	22.86	22.76	24.5		
			36	0	22.37	22.25	22.52	23.5		
			36	19	22.51	22.65	22.30	23.5		
	36		39	22.35	22.32	22.38	23.5			
	75		0	22.30	22.33	22.38	23.5			
	64QAM		1	0	22.13	22.20	22.00	23.5		
			1	37	22.36	22.52	22.23	23.5		
			1	74	22.13	21.98	22.19	23.5		
			36	0	21.40	21.15	21.46	22.5		
			36	19	21.34	21.28	21.42	22.5		
		36	39	21.25	21.34	21.31	22.5			
		75	0	21.36	21.18	21.28	22.5			
		10M	QPSK	1	0	22.94	22.80	23.03	24.5	
				1	24	23.21	23.05	23.13	24.5	
				1	49	22.90	22.83	22.81	24.5	
				25	0	22.93	22.77	22.91	24.5	
				25	12	22.90	22.89	22.84	24.5	
	25			25	22.89	22.85	22.92	24.5		
	50			0	22.90	22.77	22.75	24.5		
	16QAM			1	0	22.84	22.91	22.74	24.5	
				1	24	22.63	22.69	22.77	24.5	
				1	49	22.85	22.76	22.73	24.5	
				25	0	22.26	22.19	22.42	23.5	
				25	12	22.17	22.74	22.19	23.5	
			25	25	22.30	22.29	22.25	23.5		
			50	0	22.29	22.29	22.25	23.5		
			64QAM	1	0	22.03	22.15	21.98	23.5	
				1	24	22.31	22.40	22.11	23.5	
				1	49	22.03	21.97	22.07	23.5	
				25	0	21.35	21.09	21.34	22.5	
				25	12	21.19	21.18	21.37	22.5	
	25			25	21.12	21.12	21.23	22.5		
	50			0	21.22	21.17	21.16	22.5		
	5M			QPSK	1	0	22.96	22.89	22.99	24.5
					1	12	23.31	23.09	23.10	24.5
					1	24	22.92	22.88	22.89	24.5
					12	0	22.89	22.84	22.85	24.5
					12	6	22.97	22.87	22.90	24.5
			12		13	22.83	22.90	22.89	24.5	
25			0		22.92	22.81	22.84	24.5		
16QAM			1		0	22.80	22.81	22.76	24.5	
			1		12	22.71	22.67	22.77	24.5	
			1		24	22.90	22.84	22.71	24.5	
			12		0	22.22	22.12	22.38	23.5	
			12		6	22.29	22.80	22.16	23.5	
			12	13	22.29	22.24	22.27	23.5		
			25	0	22.15	22.19	22.33	23.5		
			64QAM	1	0	22.03	22.12	21.96	23.5	
				1	12					

LTE Band 38										
BW	Modulation	RB Size		RB Offset	Low	Mid	High	Max. Tilt-up (dBm)	Max. Tilt-up (dBm)	Max. Tilt-up (dBm)
		Channel	Channel							
		Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
QPSK	15M	1	0	18.85	19.02	19.03	20.5			
		1	50	19.14	19.17	19.17	20.5			
		1	99	18.84	18.74	18.79	20.5			
		50	0	19.05	18.99	18.97	20.5			
		50	25	18.97	18.97	18.94	20.5			
	10M	50	50	18.94	18.86	18.75	20.5			
		100	0	18.92	19.05	19.02	20.5			
		1	0	18.79	18.83	18.92	20.5			
		1	50	19.06	19.10	18.98	20.5			
		100	0	18.18	18.28	18.17	20.5			
15M	15M	1	0	18.91	18.82	18.93	20.5			
		1	50	19.08	19.08	19.05	20.5			
		1	99	18.96	18.99	19.02	20.5			
		50	0	19.03	18.96	19.00	20.5			
		50	25	19.06	19.11	19.10	20.5			
	10M	50	50	19.00	19.02	19.08	20.5			
		100	0	19.18	19.01	19.07	20.5			
		1	0	19.04	19.05	19.00	20.5			
		1	74	18.82	18.96	18.97	20.5			
		100	0	18.97	18.98	18.95	20.5			
15M	15M	1	0	18.73	18.99	18.95	20.5			
		1	37	18.99	19.14	19.14	20.5			
		1	74	18.79	18.70	18.67	20.5			
		36	0	18.71	18.92	18.76	20.5			
		36	19	18.79	18.92	18.94	20.5			
	10M	36	39	18.83	18.83	18.67	20.5			
		75	0	18.90	18.97	18.82	20.5			
		1	0	18.65	18.80	18.89	20.5			
		1	37	18.95	19.08	18.97	20.5			
		1	74	18.89	18.81	18.98	20.5			
15M	15M	36	0	18.91	18.83	19.00	20.5			
		36	19	19.05	19.11	19.05	20.5			
		36	39	18.90	19.07	18.97	20.5			
		75	0	19.20	18.76	19.09	20.5			
		1	0	19.20	18.76	19.09	20.5			
	10M	1	37	19.04	19.05	18.90	20.5			
		1	74	18.82	19.06	19.02	20.5			
		36	0	18.84	18.86	18.96	20.5			
		36	19	18.95	18.99	19.00	20.5			
		36	39	18.92	18.96	18.83	20.5			
15M	15M	75	0	19.14	18.87	18.91	20.5			
		1	0	19.14	18.87	18.91	20.5			
		1	37	18.97	18.99	18.99	20.5			
		1	74	18.89	18.83	18.98	20.5			
		36	0	18.92	18.92	18.92	20.5			
	10M	36	19	18.95	18.95	18.95	20.5			
		36	39	18.92	18.91	18.91	20.5			
		75	0	19.20	18.76	19.09	20.5			
		1	0	19.20	18.76	19.09	20.5			
		1	37	19.04	19.05	18.90	20.5			
15M	15M	1	0	18.73	18.99	18.95	20.5			
		1	37	18.99	19.14	19.14	20.5			
		1	74	18.79	18.70	18.67	20.5			
		36	0	18.71	18.92	18.76	20.5			
		36	19	18.79	18.92	18.94	20.5			
	10M	36	39	18.83	18.83	18.67	20.5			
		75	0	18.90	18.97	18.82	20.5			
		1	0	18.65	18.80	18.89	20.5			
		1	37	18.95	19.08	18.97	20.5			
		1	74	18.89	18.81	18.98	20.5			
15M	15M	36	0	18.91	18.83	19.00	20.5			
		36	19	19.05	19.11	19.05	20.5			
		36	39	18.90	19.07	18.97	20.5			
		75	0	19.20	18.76	19.09	20.5			
		1	0	19.20	18.76	19.09	20.5			
	10M	1	37	19.04	19.05	18.90	20.5			
		1	74	18.82	19.06	19.02	20.5			
		36	0	18.84	18.86	18.96	20.5			
		36	19	18.95	18.99	19.00	20.5			
		36	39	18.92	18.96	18.83	20.5			
15M	15M	75	0	19.14	18.87	18.91	20.5			
		1	0	19.14	18.87	18.91	20.5			
		1	37	18.97	18.99	18.99	20.5			
		1	74	18.89	18.83	18.98	20.5			
		36	0	18.92	18.92	18.92	20.5			
	10M	36	19	18.95	18.95	18.95	20.5			
		36	39	18.92	18.91	18.91	20.5			
		75	0	19.20	18.76	19.09	20.5			
		1	0	19.20	18.76	19.09	20.5			
		1	37	19.04	19.05	18.90	20.5			
15M	15M	1	0	18.73	18.99	18.95	20.5			
		1	37	18.99	19.14	19.14	20.5			
		1	74	18.79	18.70	18.67	20.5			
		36	0	18.71	18.92	18.76	20.5			
		36	19	18.79	18.92	18.94	20.5			
	10M	36	39	18.83	18.83	18.67	20.5			
		75	0	18.90	18.97	18.82	20.5			
		1	0	18.65	18.80	18.89	20.5			
		1	37	18.95	19.08	18.97	20.5			
		1	74	18.89	18.81	18.98	20.5			
15M	15M	36	0	18.91	18.83	19.00	20.5			
		36	19	19.05	19.11	19.05	20.5			
		36	39	18.90	19.07	18.97	20.5			
		75	0	19.20	18.76	19.09	20.5			
		1	0	19.20	18.76	19.09	20.5			
	10M	1	37	19.04	19.05	18.90	20.5			
		1	74	18.82	19.06	19.02	20.5			
		36	0	18.84	18.86	18.96	20.5			
		36	19	18.95	18.99	19.00	20.5			
		36	39	18.92	18.96	18.83	20.5			
15M	15M	75	0	19.14	18.87	18.91	20.5			
		1	0	19.14	18.87	18.91	20.5			
		1	37	18.97	18.99	18.99	20.5			
		1	74	18.89	18.83	18.98	20.5			
		36	0	18.92	18.92	18.92	20.5			
	10M	36	19	18.95	18.95	18.95	20.5			
		36	39	18.92	18.91	18.91	20.5			
		75	0	19.20	18.76	19.09	20.5			
		1	0	19.20	18.76	19.09	20.5			
		1	37	19.04	19.05	18.90	20.5			

LTE Band 41 (2486 ~ 2800MHz)										
BW	Modulation	RB Size		RB Offset	Low	Low Mid	Mid	High Mid	High	Max. Tilt-up (dBm)
		Channel	Channel							
		Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
QPSK	15M	1	0	19.24	18.86	19.00	18.84	18.75	20.5	
		1	50	18.36	18.95	19.10	19.96	19.02	20.5	
		1	99	19.09	18.87	18.81	18.80	18.84	20.5	
		50	0	19.21	18.91	19.13	18.92	18.92	20.5	
		50	25	19.30	18.96	19.20	18.89	18.95	20.5	
	10M	50	50	19.26	18.87	19.14	19.79	18.82	20.5	
		100	0	19.21	19.05	19.15	18.83	18.93	20.5	
		1	0	19.14	18.83	19.16	18.92	18.86	20.5	
		1	50	19.14	19.00	19.07	19.12	19.12	20.5	
		1	99	18.83	18.79	18.84	18.79	18.92	20.5	
15M	15M	50	0	19.20	18.99	19.23	18.91	19.01	20.5	
		50	25	19.35	18.99	19.19	18.89	18.94	20.5	
		50	50	19.26	18.97	19.15	18.76	18.94	20.5	
		100	0	19.32	19.02	19.28	18.94	18.99	20.5	
		1	0	18.80	18.96	19.00	18.79	19.00	20.5	
	10M	1	50	19.14	18.94	18.97	18.91	18.89	20.5	
		1	99	18.87	18.86	18.85	18.82	18.95	20.5	
		50	0	19.16	19.01	19.04	18.94	18.92	20.5	
		50	25	19.15	18.95	19.18	18.93	19.00	20.5	
		50	50	19.22	18.93	19.00	18.81	18.86	20.5	
15M	15M	100	0	19.32	19.00	19.20	18.97	18.97	20.5	
		1	0	19.12	18.74	19.13	19.01	19.76	20.5	
		1	37	19.05	18.96	19.09	19.01	19.00	20.5	
		1	74	18.75	18.71	18.71	18.71	18.80	20.5	
		36	0	19.17	18.86	19.09	18.77	18.92	20.5	
	10M	36	19	19.22	18.96	19.10	18.80	18.89	20.5	
		36	3							

LTE_DSI-2 Ant4

BW	Modulation	LTE Band 2					
		RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel Frequency (MHz)	1875	1880	1890	1910	1925
20M	QPSK	1	0	22.02	21.97	21.84	23.5
		1	50	22.34	22.14	22.25	23.5
		1	99	21.94	21.85	21.87	23.5
		50	0	22.07	22.20	22.21	23.5
		50	25	22.08	22.22	22.29	23.5
	16QAM	50	50	22.04	22.15	21.98	23.5
		100	0	22.16	22.15	22.06	23.5
		1	0	22.24	22.21	22.14	23.5
		1	50	21.84	22.25	22.09	23.5
		1	99	22.19	22.21	22.06	23.5
64QAM	50	0	22.12	22.03	22.16	23.5	
	50	25	22.15	22.28	22.22	23.5	
	50	50	22.18	22.17	21.95	23.5	
	100	0	22.17	22.25	22.09	23.5	
	1	0	21.80	22.20	22.10	23.5	
15M	QPSK	1	0	22.00	22.20	22.12	23.5
		1	99	22.07	21.96	22.01	23.5
		50	0	21.13	21.25	21.17	22.5
		50	25	21.26	21.26	21.17	22.5
		50	50	21.26	21.26	20.98	22.5
	16QAM	100	0	21.10	21.25	21.07	22.5
		1	0	21.80	22.20	22.10	23.5
		1	37	21.84	22.23	22.00	23.5
		1	74	22.08	22.13	21.96	23.5
		36	0	22.10	21.89	22.08	23.5
64QAM	36	19	22.05	22.18	22.20	23.5	
	36	39	22.03	22.16	22.01	23.5	
	75	0	22.05	22.23	22.02	23.5	
	1	0	21.84	22.09	22.00	23.5	
	1	37	21.91	22.07	22.06	23.5	
10M	QPSK	1	0	21.95	21.86	21.72	23.5
		1	37	22.19	22.00	22.14	23.5
		1	74	21.82	21.80	21.80	23.5
		36	0	21.94	22.15	22.07	23.5
		36	19	22.14	22.21	22.21	23.5
	16QAM	36	39	21.91	22.06	21.93	23.5
		75	0	22.13	22.12	21.92	23.5
		1	0	22.17	22.14	22.00	23.5
		1	37	21.84	22.23	22.00	23.5
		1	74	22.08	22.13	21.96	23.5
64QAM	36	0	22.10	21.89	22.08	23.5	
	36	19	22.05	22.18	22.20	23.5	
	36	39	22.03	22.16	22.01	23.5	
	75	0	22.05	22.23	22.02	23.5	
	1	0	21.84	22.09	22.00	23.5	
5M	QPSK	1	0	21.94	21.88	21.81	23.5
		1	24	22.31	22.10	22.10	23.5
		1	49	21.91	21.75	21.79	23.5
		25	0	21.97	22.15	22.12	23.5
		25	12	22.23	22.17	22.21	23.5
	16QAM	25	25	22.03	22.14	21.90	23.5
		50	0	22.14	22.01	22.04	23.5
		1	0	22.23	22.07	22.04	23.5
		1	24	21.86	22.20	21.98	23.5
		1	49	22.13	22.08	21.92	23.5
64QAM	25	0	22.11	21.96	22.09	23.5	
	25	12	22.10	22.13	22.21	23.5	
	25	25	22.14	22.04	21.93	23.5	
	50	0	22.10	22.23	22.06	23.5	
	1	0	21.82	22.05	21.99	23.5	
3M	QPSK	1	0	21.91	21.88	21.81	23.5
		1	49	22.01	21.94	21.88	23.5
		25	0	21.10	21.20	21.15	22.5
		25	12	21.21	21.17	21.05	22.5
		25	25	20.97	21.18	20.96	22.5
	16QAM	25	0	21.05	21.22	21.01	22.5
		1	0	21.85	22.10	22.00	23.5
		1	12	21.94	22.17	22.08	23.5
		1	24	22.04	21.86	21.88	23.5
		12	0	20.99	21.23	21.13	22.5
64QAM	12	6	21.22	21.21	21.15	22.5	
	12	13	20.94	21.21	20.96	22.5	
	25	0	21.03	21.19	20.97	22.5	
	1	0	21.85	22.10	22.00	23.5	
	1	12	21.94	22.17	22.08	23.5	
1.4M	QPSK	1	0	21.84	21.86	21.71	23.5
		1	7	22.22	22.08	22.15	23.5
		1	14	21.86	21.75	21.75	23.5
		8	0	22.00	22.09	22.12	23.5
		8	3	22.19	22.07	22.28	23.5
	16QAM	8	7	22.01	22.12	21.96	23.5
		15	0	22.11	22.10	22.01	23.5
		1	0	22.10	22.14	22.05	23.5
		1	7	21.86	22.18	22.08	23.5
		1	14	22.15	22.11	21.93	23.5
64QAM	8	0	22.06	22.00	22.09	23.5	
	8	3	22.04	22.13	22.17	23.5	
	8	7	22.08	22.13	21.93	23.5	
	15	0	22.05	22.22	21.97	23.5	
	1	0	21.76	22.16	22.03	23.5	
3M	QPSK	1	0	21.84	21.86	21.71	23.5
		1	7	22.22	22.08	22.15	23.5
		1	14	21.86	21.75	21.75	23.5
		8	0	22.00	22.09	22.12	23.5
		8	3	22.19	22.07	22.28	23.5
	16QAM	8	7	22.01	22.12	21.96	23.5
		15	0	22.11	22.10	22.01	23.5
		1	0	22.10	22.14	22.05	23.5
		1	7	21.86	22.18	22.08	23.5
		1	14	22.15	22.11	21.93	23.5
64QAM	8	0	22.06	22.00	22.09	23.5	
	8	3	22.04	22.13	22.17	23.5	
	8	7	22.08	22.13	21.93	23.5	
	15	0	22.05	22.22	21.97	23.5	
	1	0	21.76	22.16	22.03	23.5	
1.4M	QPSK	1	0	21.84	21.86	21.71	23.5
		1	7	22.22	22.08	22.15	23.5
		1	14	21.86	21.75	21.75	23.5
		8	0	22.00	22.09	22.12	23.5
		8	3	22.19	22.07	22.28	23.5
	16QAM	8	7	22.01	22.12	21.96	23.5
		15	0	22.11	22.10	22.01	23.5
		1	0	22.10	22.14	22.05	23.5
		1	7	21.86	22.18	22.08	23.5
		1	14	22.15	22.11	21.93	23.5
64QAM	8	0	22.06	22.00	22.09	23.5	
	8	3	22.04	22.13	22.17	23.5	
	8	7	22.08	22.13	21.93	23.5	
	15	0	22.05	22.22	21.97	23.5	
	1	0	21.76	22.16	22.03	23.5	
3M	QPSK	1	0	21.84	21.86	21.71	23.5
		1	7	22.22	22.08	22.15	23.5
		1	14	21.86	21.75	21.75	23.5
		8	0	22.00	22.09	22.12	23.5
		8	3	22.19	22.07	22.28	23.5
	16QAM	8	7	22.01	22.12	21.96	23.5
		15	0	22.11	22.10	22.01	23.5
		1	0	22.10	22.14	22.05	23.5
		1	7	21.86	22.18	22.08	23.5
		1	14	22.15	22.11	21.93	23.5
64QAM	8	0	22.06	22.00	22.09	23.5	
	8	3	22.04	22.13	22.17	23.5	
	8	7	22.08	22.13	21.93	23.5	
	15	0	22.05	22.22	21.97	23.5	
	1	0	21.76	22.16	22.03	23.5	
1.4M	QPSK	1	0	21.84	21.86	21.71	23.5
		1	7	22.22	22.08	22.15	23.5
		1	14	21.86	21.75	21.75	23.5
		8	0	22.00	22.09	22.12	23.5
		8	3	22.19	22.07	22.28	23.5
	16QAM	8	7	22.01	22.12	21.96	23.5
		15	0	22.11	22.10	22.01	23.5
		1	0	22.10	22.14	22.05	23.5
		1	7	21.86	22.18	22.08	23.5
		1	14	22.15	22.11	21.93	23.5
64QAM	8	0	22.06	22.00	22.09	23.5	
	8	3	22.04	22.13	22.17	23.5	
	8	7	22.08	22.13	21.93	23.5	
	15	0	22.05	22.22	21.97	23.5	
	1	0	21.76	22.16	22.03	23.5	
1.4M	QPSK	1	0	21.84	21.86	21.71	23.5
		1	7	22.22	22.08	22.15	23.5
		1	14	21.86	21.75	21.75	23.5
		8	0	22.00	22.09	22.12	23.5
		8	3	22.19	22.07	22.28	23.5
	16QAM	8	7	22.01	22.12	21.96	23.5
		15	0	22.11	22.10	22.01	23.5
		1	0	22.10	22.14	22.05	23.5
		1	7	21.86	22.18	22.08	23.5
		1	14	22.15	22.11	21.93	23.5
64QAM	8	0	22.06	22.00	22.09	23.5	
	8	3	22.04	22.13	22.17	23.5	
	8	7	22.08	22.13	21.93	23.5	
	15	0	22.05	22.22	21.97	23.5	
	1	0	21.76	22.16	22.03	23.5	

BW	Modulation	LTE Band 4					
		RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel Frequency (MHz)	1720	1725	1740	1760	1775
20M	QPSK	1	0	22.02	21.89	21.91	23.5
		1	50	22.36	22.28	22.34	23.5
		1	99	22.00	22.05	21.90	23.5
		50	0	22.03	22.23	22.24	23.5
		50	25	22.04	22.24	22.21	23.5
	16QAM	50	50	22.05	22.26	22.26	23.5
		100	0	22.24	22.17	22.25	23.5
		1	0	22.09	22.11	22.19	23.5
		1	50	22.16	21.96	22.11	23.5
		1	99	22.21	22.21	22.16	23.5

LTE Band 7								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel	Channel	2985	3100	3195		
20M	QPSK	1	0	23.45	23.21	23.12	25	
		1	50	23.72	23.47	23.45	25	
		1	99	23.23	23.00	23.09	25	
		50	0	22.66	22.51	22.40	24	
		50	25	22.73	22.55	22.44	24	
		50	50	22.72	22.38	22.26	24	
		100	0	22.98	22.43	22.33	24	
		1	0	22.70	22.44	22.32	24	
		1	50	22.93	22.64	22.65	24	
		1	99	22.51	22.22	22.26	24	
	50	0	21.62	21.50	21.35	23		
	50	25	21.72	21.45	21.40	23		
	50	50	21.71	21.36	21.29	23		
	100	0	21.64	21.41	21.29	23		
	16QAM	1	0	21.55	21.35	21.31	23	
		1	50	21.88	21.57	21.58	23	
		1	99	21.41	21.32	21.35	23	
		50	0	20.57	20.47	20.36	22	
		50	25	20.70	20.41	20.36	22	
		50	50	20.69	20.31	20.33	22	
		100	0	20.62	20.40	20.35	22	
		64QAM	1	0	21.55	21.35	21.31	23
			1	50	21.88	21.57	21.58	23
			1	99	21.41	21.32	21.35	23
	50		0	20.57	20.47	20.36	22	
	50		25	20.70	20.41	20.36	22	
	50		50	20.69	20.31	20.33	22	
	100		0	20.62	20.40	20.35	22	
	QPSK		1	0	23.44	23.14	23.07	25
			1	37	23.62	23.44	23.40	25
			1	74	23.18	22.87	23.08	25
		36	0	22.56	22.47	22.34	24	
		36	19	22.67	22.40	22.38	24	
		36	39	22.58	22.32	22.26	24	
		75	0	22.67	22.31	22.24	24	
		1	0	22.59	22.36	22.32	24	
		1	37	22.90	22.59	22.58	24	
		1	74	22.38	22.18	22.21	24	
	16QAM	36	0	21.47	21.35	21.25	23	
		36	19	21.70	21.31	21.26	23	
36		39	21.56	21.24	21.19	23		
75		0	21.52	21.30	21.25	23		
1		0	21.46	21.26	21.29	23		
64QAM		1	0	21.46	21.26	21.29	23	
		1	37	21.86	21.42	21.46	23	
		1	74	21.29	21.22	21.27	23	
		36	0	20.43	20.34	20.22	22	
		36	19	20.61	20.37	20.30	22	
	36	39	20.63	20.27	20.26	22		
	75	0	20.57	20.35	20.33	22		
	QPSK	1	0	23.42	23.09	22.97	25	
		1	24	23.59	23.39	23.38	25	
		1	49	23.17	23.21	23.14	25	
25		0	22.64	22.41	22.36	24		
25		12	22.69	22.42	22.30	24		
25		25	22.68	22.26	22.26	24		
50		0	22.57	22.36	22.31	24		
1		0	22.64	22.30	22.22	24		
1		24	22.88	22.52	22.61	24		
1		49	22.41	22.18	22.14	24		
16QAM	25	0	21.61	21.47	21.29	23		
	25	12	21.57	21.35	21.35	23		
	25	25	21.65	21.31	21.13	23		
	50	0	21.60	21.28	21.22	23		
	1	0	21.54	21.25	21.30	23		
	1	24	21.96	21.46	21.44	23		
	1	49	21.33	21.30	21.28	23		
	25	0	20.47	20.43	20.20	22		
	25	12	20.55	20.28	20.28	22		
	25	25	20.62	20.17	20.32	22		
50	0	20.55	20.31	20.21	22			
64QAM	1	0	20.75	21.00	21.02	22		
	1	0	23.38	23.19	23.06	25		
	1	12	23.70	23.32	23.42	25		
	1	24	23.20	23.08	23.15	25		
	12	0	22.63	22.42	22.27	24		
	12	6	22.71	22.40	22.43	24		
	12	13	22.60	22.35	22.26	24		
	25	0	22.67	22.32	22.22	24		
	1	0	22.59	22.43	22.29	24		
	1	12	22.90	22.49	22.62	24		
16QAM	1	24	22.41	22.20	22.25	24		
	12	0	21.59	21.39	21.25	23		
	12	6	21.70	21.44	21.31	23		
	12	13	21.69	21.33	21.15	23		
	25	0	21.49	21.35	21.27	23		
	64QAM	1	0	21.54	21.22	21.26	23	
		1	12	21.85	21.52	21.43	23	
		1	24	21.34	21.17	21.31	23	
		12	0	20.43	20.46	20.20	22	
		12	6	20.59	20.30	20.21	22	
12		13	20.57	20.16	20.21	22		
25		0	20.48	20.25	20.26	22		

LTE Band 13							
BW	Modulation	RB Size	RB Offset	Mid	Max. Tune-up (dBm)		
		Channel	Channel	2329			
10M	QPSK	1	0	24.33	25.5		
		1	24	24.46	25.5		
		1	49	24.31	25.5		
		25	0	23.38	24.5		
		25	12	23.42	24.5		
		25	25	23.39	24.5		
		50	0	23.41	24.5		
		1	0	23.64	24.5		
		1	24	23.88	24.5		
		1	49	23.62	24.5		
	25	0	22.51	23.5			
	25	12	22.48	23.5			
	25	25	22.47	23.5			
	50	0	22.50	23.5			
	16QAM	1	0	22.55	23.5		
		1	24	22.77	23.5		
		1	49	22.55	23.5		
		25	0	21.37	22.5		
		25	12	21.33	22.5		
		25	25	21.31	22.5		
		50	0	21.35	22.5		
		64QAM	1	0	22.55	23.5	
			1	24	22.77	23.5	
			1	49	22.55	23.5	
	25		0	21.37	22.5		
	25		12	21.33	22.5		
	25		25	21.31	22.5		
	50		0	21.35	22.5		
	QPSK		1	0	24.32	24.27	25.5
			1	12	24.40	24.42	25.5
			1	24	24.28	24.24	25.5
		12	0	23.35	23.32	24.5	
		12	6	23.30	23.23	24.5	
		12	13	23.27	23.32	24.5	
		25	0	23.37	23.39	24.5	
		1	0	23.52	23.59	24.5	
		1	12	23.81	23.79	24.5	
		1	24	23.49	23.68	24.5	
	16QAM	12	0	22.48	22.44	23.5	
		12	6	22.39	22.42	23.5	
12		13	22.34	22.46	23.5		
25		0	22.47	22.35	23.5		
1		0	22.43	22.42	23.5		
64QAM		1	12	22.69	22.73	23.5	
		1	24	22.41	22.40	23.5	
		12	0	21.29	21.22	22.5	
		12	6	21.23	21.31	22.5	
		12	13	21.23	21.18	22.5	
	25	0	21.21	21.25	22.5		

LTE Band 26								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel	Channel	2875	2885	2895		
15M	QPSK	1	0	24.19	24.08	24.03	25.5	
		1	37	24.45	24.34	24.29	25.5	
		1	74	24.18	24.08	23.99	25.5	
		36	0	23.32	23.30	23.22	24.5	
		36	19	23.35	23.31	23.25	24.5	
		36	39	23.28	23.29	23.20	24.5	
		75	0	23.30	23.27	23.22	24.5	
		1	0	23.48	23.39	23.33	24.5	
		1	37	23.70	23.60	23.58	24.5	
		1	74	23.42	23.34	23.23	24.5	
	36	0	22.34	22.32	22.21	23.5		
	36	19	22.40	22.31	22.24	23.5		
	36	39	22.33	22.28	22.18	23.5		
	75	0	22.36	22.33	22.19	23.5		
	16QAM	1	0	22.45	22.48	21.88	23.5	
		1	37	22.84	22.49	22.17	23.5	
		1	74	22.43	22.51	21.84	23.5	
		36	0	21.28	21.33	21.22	22.5	
		36	19	21.30	21.34	21.08	22.5	
		36	39	21.22	21.30	21.22	22.5	
		75	0	21.30	21.29	21.21	22.5	
		64QAM	1	0	22.45	22.48	21.88	23.5
			1	37	22.84	22.49	22.17	23.5
			1	74	22.43	22.51	21.84	23.5
	36		0	21.28	21.33	21.22	22.5	
	36		19	21.30	21.34	21.08	22.5	
	36		39	21.22	21.30	21.22	22.5	
	75		0	21.30	21.29	21.21	22.5	
	QPSK		1	0	24.06	24.04	23.92	25.5
			1	24	24.38	24.25	24.18	25.5
			1	49	24.17	23.96	23.85	25.5
		25	0	23.19	23.17	23.08	24.5	
		25	12	23.20	23.16	23.16	24.5	
		25	25	23.20	23.18	23.15	24.5	
		50	0	23.18	23.22	23.21	24.5	
		1	0	23.38	23.35	23.28	24.5	
		1	24	23.84	23.56	23.48	24.5	
		1	49	23.32	23.33	23.19	24.5	
	16QAM	25	0	22.27	22.18	22.19	23.5	
		25	12	22.39	22.25	22.23	23.5	
25		25	22.26	22.23	22.07	23.5		
50		0	22.38	22.35	22.28	23.5		
1		0	22.35	22.39	21.97	23.5		
64QAM		1	24	22.51	22.43	22.16	23.5	
		1	49	22.37	22.45	21.91	23.5	
		25	0	21.25	21.22	21.12	22.5	
		25	12	21.29	21.23	21.15	22.5	
		25	25	21.16	21.18	21.08	22.5	
	50	0	21.28	21.19	21.12	22.5		
	QPSK	1	0	24.04	23.95			

LTE Band 38											
BW	Modulation	RB Size		RB Offset		Low	Mid	High	Max. Tilt-up (dBm)	Max. Tilt-down (dBm)	
		Channel	RB Offset	Low	Mid						High
		Frequency (MHz)	2880	2880	2880						2880
QPSK	15M	1	0	23.39	23.48	23.45	25				
		1	50	23.67	23.71	23.62	25				
		1	99	23.31	23.24	23.28	25				
		50	0	22.41	22.47	22.46	24				
		50	50	22.44	22.44	22.36	24				
	100	0	22.51	22.52	22.47	24					
	10M	15M	1	0	22.41	22.46	22.43	24			
			1	50	22.60	22.68	22.60	24			
			1	99	22.29	22.28	22.14	24			
			50	0	21.48	21.52	21.44	23			
50			25	21.58	21.55	21.46	23				
QPSK	15M	1	0	21.48	21.50	21.41	23				
		1	50	21.56	21.56	21.47	23				
		1	99	21.29	21.18	21.18	23				
		50	0	21.21	21.18	21.18	23				
		50	25	20.46	20.47	20.41	22				
	10M	15M	1	0	20.38	20.35	20.29	22			
			1	50	20.38	20.35	20.29	22			
			1	99	20.48	20.43	20.43	22			
			50	0	20.48	20.43	20.43	22			
			50	50	20.48	20.43	20.43	22			

LTE Band 41 (2486 ~ 2800MHz)															
BW	Modulation	RB Size		RB Offset		Low	Low Mid	Mid	High Mid	High	Max. Tilt-up (dBm)	Max. Tilt-down (dBm)			
		Channel	RB Offset	Low	Low Mid								Mid	High Mid	High
		Frequency (MHz)	2976	2976	2984								2984	2984	2984
QPSK	15M	1	0	23.54	23.15	23.38	23.11	23.13	25						
		1	50	23.80	23.43	23.65	23.38	23.43	25						
		1	99	23.34	23.12	23.17	23.13	23.10	25						
		50	0	22.40	22.22	22.41	22.29	22.32	24						
		50	25	22.54	22.26	22.46	22.19	22.32	24						
	10M	15M	1	0	22.53	22.24	22.41	22.09	22.15	24					
			1	50	22.65	22.20	22.52	22.20	22.22	24					
			1	99	22.52	22.16	22.45	22.19	22.12	24					
			50	0	21.50	21.25	21.45	21.22	21.25	23					
			50	25	21.60	21.34	21.50	21.28	21.28	23					
QPSK	15M	1	0	21.50	21.28	21.42	21.13	21.23	23						
		1	50	21.61	21.38	21.49	21.22	21.24	23						
		1	99	21.13	21.22	21.28	21.14	21.23	23						
		50	0	21.13	21.18	21.22	21.17	21.16	23						
		50	25	20.38	20.38	20.38	20.29	20.29	22						
	10M	15M	1	0	20.38	20.35	20.34	20.17	20.18	22					
			1	50	20.38	20.35	20.34	20.17	20.18	22					
			1	99	20.58	20.26	20.44	20.21	20.22	22					
			50	0	20.58	20.26	20.44	20.21	20.22	22					
			50	50	20.58	20.26	20.44	20.21	20.22	22					

LTE Band 66											
BW	Modulation	RB Size		RB Offset		Low	Mid	High	Max. Tilt-up (dBm)	Max. Tilt-down (dBm)	
		Channel	RB Offset	Low	Mid						High
		Frequency (MHz)	1728	1728	1728						1728
QPSK	15M	1	0	22.06	22.28	22.31	23.5				
		1	50	22.41	22.69	22.59	23.5				
		1	99	22.09	22.22	22.21	23.5				
		50	0	22.11	22.24	22.25	23.5				
		50	25	22.21	22.36	22.28	23.5				
	10M	15M	1	0	22.19	22.17	22.10	23.5			
			1	50	22.05	22.26	22.24	23.5			
			1	99	22.00	22.21	22.40	23.5			
			50	0	22.00	22.21	22.40	23.5			
			50	50	22.00	22.21	22.40	23.5			

LTE Band 38											
BW	Modulation	RB Size		RB Offset		Low	Mid	High	Max. Tilt-up (dBm)	Max. Tilt-down (dBm)	
		Channel	RB Offset	Low	Mid						High
		Frequency (MHz)	2880	2880	2880						2880
QPSK	15M	1	0	23.26	23.38	23.35	25				
		1	37	23.64	23.59	23.57	25				
		1	74	23.18	23.15	23.07	25				
		36	0	22.33	22.49	22.32	24				
		36	19	22.43	22.48	22.36	24				
	10M	15M	1	0	22.29	22.33	22.31	24			
			1	37	22.50	22.56	22.33	24			
			1	74	22.27	22.31	22.06	24			
			36	0	21.43	21.41	21.37	23			
			36	19	21.47	21.54	21.32	23			
QPSK	15M	1	0	21.37	21.44	21.36	23				
		1	37	21.58	21.60	21.44	23				
		1	74	21.11	21.13	21.07	23				
		36	0	21.11	21.14	21.11	23				
		36	19	21.13	21.15	21.13	23				
	10M	15M	1	0	21.13	21.08	21.09	23			
			1	37	21.13	21.08	21.09	23			
			1	74	21.13	21.08	21.09	23			
			36	0	20.24	20.28	20.31	22			
			36	19	20.28	20.38	20.37	22			
QPSK	15M	1	0	20.21	20.25	20.24	22				
		1	37	20.21	20.25	20.24	22				
		1	74	20.21	20.25	20.24	22				
		36	0	20.34	20.40	20.37	22				
		36	19	20.34	20.40	20.37	22				
	10M	15M	1	0	20.34	20.40	20.37	22			
			1	37	20.34	20.40	20.37	22			
			1	74	20.34	20.40	20.37	22			
			36	0	20.34	20.40	20.37	22			
			36	19	20.34	20.40	20.37	22			

LTE Band 41 (2486 ~ 2800MHz)															
BW	Modulation	RB Size		RB Offset		Low	Low Mid	Mid	High Mid	High	Max. Tilt-up (dBm)	Max. Tilt-down (dBm)			
		Channel	RB Offset	Low	Low Mid								Mid	High Mid	High
		Frequency (MHz)	2976	2976	2984								2984	2984	2984
QPSK	15M	1	0	23.52	23.12	23.32	23.08	23.11	25						
		1	37	23.66	23.38	23.51	23.24	23.41	25						
		1	74	23.33	23.07	23.04	23.06	23.05	25						
		36	0	22.34	22.17	22.39	22.10	22.07	24						
		36	19	22.50	22.22	22.41	22.15	22.14	24						
	10M	15M	1	0	22.41	22.20	22.32	22.08	22.09	24					
			1	37	22.52	22.26	22.41	22.17	22.13	24					
			1	74	22.42	22.13	22.31	22.11	22.09	24					
			36	0	21.38	21.22	21.38	21.25	21.19	23					
			36	19	21.53	21.20	21.41	21.22	21.16	23					
QPSK	15M	1	0	21.38	21.21	21.38	21.04	21.09	23						
		1	37	21.58	21.26	21.39	21.12	21.19	23						
		1	74	21.09	21.07	21.08	21.14	21.09	23						
		36	0	21.23	21.20	21.16	21.14	21.09	23						
		36	19	21.27	21.28	21.16	21.14	21.09	23						
	10M	15M	1	0	21.07	21.04	21.07	21.02	21.02	23					
			1	37	21.37	21.04	21.07	21.16	21.02	23					
			1	74	21.15	21.01	21.10	21.07	21.09	23					
			36	0	20.37	20.34	20.28	20.05	20.07	22					
			36	19	20.47	20.26	20.43	20.06	20.14	22					
QPSK	15M	1	0	20.39	20.22	20.32	20.08	20.07	22						
		1	37	20.48	20.12	20.23	20.06	20.09	22						
		1	74	20.42	20.20	20.40	20.12	20.13	22						
		36	0	20.42	20.20	20.40	20.12	20.13	22						
		36	19	20.42	20.20	20.40	20.12	20.13	22						
	10M	15M	1	0	20.42	20.20	20.40	20.12	20.13	22					
			1	37	20.42	20.20	20.40	20.12	20.13	22					
			1	74	20.42	20.20	20.40	20.12	20.13	22					
			36	0	20.42	20.20	20.40	20.12	20.13	22					
			36	19	20.42	20.20	20.40	20.12	20.13	22					

LTE Band 66											
BW	Modulation	RB Size		RB Offset		Low	Mid	High	Max. Tilt-up (dBm)	Max. Tilt-down (dBm)	
		Channel	RB Offset	Low	Mid						High
		Frequency (MHz)	1728	1728	1728						1728
QPSK	15M	1	0	22.02	22.22	22.16	23.5				
		1	7	22.33	22.68	22.5					

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LTE Band 2													
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (MHz)						
				Channel	1910	1900		1910					
20M	QPSK	50	0	17.24	17.02	16.98	18.5						
				1	50	17.42	17.39	17.37	18.5				
				1	99	17.10	16.98	16.98	18.5				
				50	0	17.21	17.21	17.21	18.5				
				50	25	17.27	17.23	17.29	18.5				
				50	50	17.21	17.21	17.21	18.5				
		100	0	50	17.25	17.21	17.20	18.5					
					1	0	17.23	17.34	17.17	18.5			
					1	50	17.37	17.22	17.28	18.5			
					1	99	17.24	17.26	17.07	18.5			
					50	0	17.23	17.21	17.21	18.5			
					50	50	17.24	17.41	17.25	18.5			
	16QAM	50	0	17.24	17.36	17.11	18.5						
				1	0	17.18	17.36	17.18	18.5				
				1	0	17.41	17.36	17.29	18.5				
				1	50	17.00	17.20	17.17	18.5				
				1	99	17.27	17.41	17.25	18.5				
				50	0	17.27	17.30	17.24	18.5				
		100	0	50	17.24	17.23	17.26	18.5					
					1	0	17.25	17.34	17.01	18.5			
					1	0	17.13	17.27	17.21	18.5			
					1	0	17.23	17.34	17.17	18.5			
					1	50	17.37	17.22	17.28	18.5			
					1	99	17.24	17.26	17.07	18.5			
	64QAM	50	0	17.24	17.30	17.24	18.5						
				1	0	17.27	17.30	17.24	18.5				
				50	25	17.24	17.23	17.26	18.5				
				50	50	17.25	17.34	17.01	18.5				
				100	0	17.13	17.27	17.21	18.5				
				1	0	17.23	17.34	17.17	18.5				
		15M	QPSK	36	0	17.14	16.93	16.87	18.5				
						1	37	17.32	17.27	17.28	18.5		
						1	74	17.00	16.91	16.93	18.5		
						36	0	17.13	17.08	17.11	18.5		
						36	19	17.19	17.21	17.17	18.5		
						36	39	17.12	17.08	16.89	18.5		
75	0			17.24	17.20	17.15	18.5						
								1	0	17.10	17.33	17.07	18.5
								1	37	17.30	17.17	17.18	18.5
								1	74	17.16	17.11	17.05	18.5
								36	19	17.22	17.40	17.21	18.5
								36	39	17.09	17.33	17.01	18.5
15M	16QAM	36	0	17.17	17.23	17.13	18.5						
				1	0	17.37	17.32	17.25	18.5				
				1	37	16.95	17.12	17.12	18.5				
				1	74	17.33	17.30	17.08	18.5				
				36	19	17.22	17.40	17.21	18.5				
				36	39	17.09	17.33	17.01	18.5				
		75	0	17.17	17.23	17.13	18.5						
								1	0	17.37	17.32	17.25	18.5
								1	37	16.95	17.12	17.12	18.5
								1	74	17.33	17.30	17.08	18.5
								36	19	17.20	17.15	17.22	18.5
								36	39	17.21	17.08	17.12	18.5
10M	QPSK	25	0	16.88	16.90	16.92	18.5						
				1	24	17.28	17.28	17.25	18.5				
				1	49	17.05	16.92	16.85	18.5				
				25	0	17.13	17.18	17.10	18.5				
				25	12	17.19	17.22	17.27	18.5				
				25	25	17.02	17.08	16.93	18.5				
		50	0	17.21	17.18	17.08	18.5						
								1	0	17.22	17.25	17.02	18.5
								1	24	17.22	17.07	17.23	18.5
								1	49	17.10	17.23	16.92	18.5
								25	12	17.09	17.28	17.22	18.5
								25	25	17.11	17.35	17.07	18.5
10M	16QAM	25	0	17.16	17.25	17.03	18.5						
				1	0	17.34	17.32	17.19	18.5				
				1	24	16.88	17.13	17.15	18.5				
				1	49	17.24	17.20	17.01	18.5				
				25	0	17.24	17.22	17.14	18.5				
				25	12	17.18	17.13	17.24	18.5				
		50	0	17.05	17.13	17.10	18.5						
								1	0	17.26	17.21	17.27	18.5
								1	12	16.88	17.14	17.08	18.5
								1	24	17.28	17.20	17.03	18.5
								12	0	17.16	17.27	17.21	18.5
								12	6	17.13	17.16	17.18	18.5
5M	QPSK	12	0	17.17	16.99	16.86	18.5						
				1	7	17.35	17.29	17.24	18.5				
				1	14	17.01	16.94	16.84	18.5				
				8	0	17.07	17.19	17.11	18.5				
				8	3	17.13	17.10	17.16	18.5				
				8	7	17.11	17.20	16.92	18.5				
		15	0	17.18	17.11	17.06	18.5						
								1	0	17.20	17.31	17.08	18.5
								1	7	17.36	17.06	17.20	18.5
								1	14	17.19	17.16	16.97	18.5
								8	0	17.12	17.29	17.18	18.5
								8	3	17.19	17.30	17.15	18.5
5M	16QAM	12	0	17.12	17.34	17.03	18.5						
				1	0	17.13	17.26	17.08	18.5				
				1	0	17.33	17.21	17.25	18.5				
				1	7	16.93	17.05	17.15	18.5				
				1	14	17.22	17.26	17.05	18.5				
				8	0	17.22	17.27	17.13	18.5				
		15	0	17.11	17.18	17.22	18.5						
								1	0	17.24	17.23	16.91	18.5
								1	0	16.98	17.17	17.10	18.5
								1	0	17.10	17.33	17.03	18.5
								1	7	16.99	17.05	17.15	18.5
								1	14	17.22	17.26	17.05	18.5
1.4M	QPSK	3	0	17.40	17.31	17.32	18.5						
				1	5	16.99	16.86	16.89	18.5				
				3	0	17.16	17.20	17.17	18.5				
				3	1	17.13	17.16	17.20	18.5				
				3	3	17.20	17.15	16.92	18.5				
				6	0	17.21	17.18	17.17	18.5				
		6	0	17.15	17.32	17.06	18.5						
								1	0	17.25	17.20	17.23	18.5
								1	5	17.19	17.22	17.02	18.5
								3	0	17.18	17.18	17.18	18.5
								3	1	17.21	17.32	17.18	18.5
								3	3	17.12	17.40	16.97	18.5
1.4M	16QAM	3	0	17.11	17.31	17.03	18.5						
				1	0	17.39	17.23	17.28	18.5				
				1	2	16.98	17.14	17.10	18.5				
				1	5	17.29	17.25	16.98	18.5				
				3	0	17.18	17.15	17.14	18.5				
				3	1	17.22	17.13	17.14	18.5				
		6	0	17.02	17.15	17.20	18.5						
								1	0	17.33	17.28	17.28	18.5
								1	2	16.98	17.14	17.10	18.5
								1	5	17.29	17.25	16.98	18.5
								3	0	17.18	17.15	17.14	18.5
								3	1	17.22	17.13	17.14	18.5

LTE Band 4														
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (MHz)							
				Channel	2050	2075		2050						
20M	QPSK	50	0	17.81	18.02	18.15	19.5							
				1	0	18.04	18.00	17.97	19.5					
				1	50	18.32	18.20	18.24	19.5					
				1	99	17.95	18.05	17.92	19.5					
				50	0	17.86	18.06	18.09	19.5					
				50	25	18.16	18.15	18.11	19.5					
		100	0	50	17.84	18.03	18.14	19.5						
					1	0	18.10	17.99	18.04	19.5				
					1	0	17.89	17.88	18.02	19.5				
					1	50	17.98	18.10	18.13	19.5				
					1	99	18.05	17.99	18.00	19.5				
					50	0	17.97	18.02	18.15	19.5				
	16QAM	50	0	18.01	18.14	18.23	19.5							
				1	0	17.88	18.15	18.12	19.5					
				1	0	17.74	17.89	17.92	19.5					
				1	0	17.97	17.79	17.86	19.5					
				1	50	18.16	17.99	18.00	19.5					
				1	99	18.10	18.14	18.23	19.5					
		100	0	50	17.88	18.15	18.12	19.5						
					1	0	17.74	17.89	17.92	19.5				
					1	0	17.97	17.79	17.86	19.5				
					1	50	18.16	17.99	18.00	19.5				
					1	99	18.10	18.14	18.23	19.5				
					50	0	18.09	17.99	17.86	19.5				
	15M	QPSK	36	0	18.21	18.11	18.07	19.5						
					1	0	18.03	18.05	18.09	19.5				
					1	0	18.12	18.04	18.05	19.5				
					1	0	17.97	17.91	17.81	19.5				
					1	37	18.29	18.20	18.21	19.5				
					1	74	17.94	18.01	17.81	19.5				
			75	0	17.78	18.00	17.95	19.5						
									1	0	17.85	17.88	18.03	19.5
									1	37	17.93	17.96	18.09	19.5
									1	74	18.03	17.92	17.90	19.5
									36	19	17.81	18.08	18.21	19.5
									36	39	17.86	18.01	18.09	19.5
15M	16QAM	36	0	17.87	17.87	17.81	19.5							
				1	0	17.82	17.72	17.77	19.5					
				1	37	18.04	17.93	17.99	19.5					
				1	74	18.11	17.88	17.77	19.5					
				36	19	17.91	18.08	18.21	19.5					
				36	39	17.86	18.01	18.09	19.5					
		75	0	17.59	17.87	17.81	19.5							
								1	0	17.82	17.72	17.77	19.5	
								1	37	18.04	17.93	17.99	19.5	
								1	74	18.11	17.88	17.77	19.5	
								36	19	17.91	18.08	18.21	19.5	
								36	39	17.86	18.0			

LTE Band 7								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel	20860	21100	21350	21600		
20M	QPSK	1	0	17.32	17.16	17.02	18.5	
		1	50	17.44	17.20	17.07	18.5	
		1	99	17.12	16.93	17.07	18.5	
		50	0	17.21	17.19	16.98	18.5	
		50	25	17.28	17.22	17.16	18.5	
		50	50	17.30	17.23	17.09	18.5	
		100	0	17.26	17.25	17.10	18.5	
		1	0	17.25	17.23	17.13	18.5	
		1	50	17.19	17.18	17.21	18.5	
		1	99	17.29	17.09	17.04	18.5	
	16QAM	50	0	17.07	16.97	17.02	18.5	
		50	25	17.18	16.88	16.81	18.5	
		50	50	17.16	17.13	17.08	18.5	
		100	0	17.13	16.86	16.80	18.5	
		64QAM	1	0	17.04	17.12	17.01	18.5
			1	50	17.32	16.96	17.08	18.5
			1	99	17.00	17.09	17.08	18.5
			50	0	16.97	16.85	17.02	18.5
			50	25	17.28	17.04	16.99	18.5
			50	50	17.32	16.88	16.90	18.5
100	0		17.17	16.90	16.83	18.5		
BW	Modulation		Channel	20825	21100	21375	Max. Tune-up (dBm)	
			Frequency (MHz)	20875	21050	21325		
			1	0	17.20	17.12	16.89	18.5

LTE Band 13							
BW	Modulation	RB Size	RB Offset	Mid		Max. Tune-up (dBm)	
		Channel	23230	23230	23230		
10M	QPSK	1	0	792	24.33	25.5	
		1	24	24.46	24.33	25.5	
		1	49	24.31	24.31	25.5	
		25	0	23.38	23.38	24.5	
		25	12	23.42	23.42	24.5	
		25	25	23.39	23.39	24.5	
		50	0	23.41	23.41	24.5	
		1	0	23.64	23.64	24.5	
		1	24	23.66	23.66	24.5	
		1	49	23.62	23.62	24.5	
	16QAM	25	0	22.51	22.51	23.5	
		25	12	22.48	22.48	23.5	
		25	25	22.47	22.47	23.5	
		50	0	22.50	22.50	23.5	
		64QAM	1	0	22.55	22.55	23.5
			1	24	22.77	22.77	23.5
			1	49	22.56	22.56	23.5
			25	0	21.37	21.37	22.5
			25	12	21.33	21.33	22.5
			25	25	21.31	21.31	22.5
50	0		21.35	21.35	22.5		
BW	Modulation		Channel	23205	23230	23255	Max. Tune-up (dBm)
			Frequency (MHz)	779.5	782	784.5	
			1	0	24.32	24.22	24.27

LTE Band 26								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel	26740	26865	26990	27115		
15M	QPSK	1	0	24.19	24.01	24.13	25.5	
		1	37	24.45	24.34	24.29	25.5	
		1	74	24.18	24.06	23.99	25.5	
		36	0	23.32	23.30	23.22	24.5	
		36	19	23.35	23.31	23.25	24.5	
		36	39	23.28	23.29	23.20	24.5	
		75	0	23.30	23.27	23.22	24.5	
		1	0	23.48	23.36	23.33	24.5	
		1	37	23.70	23.60	23.58	24.5	
		1	74	23.42	23.34	23.23	24.5	
	16QAM	36	0	22.34	22.32	22.21	23.5	
		36	19	22.40	22.31	22.24	23.5	
		36	39	22.33	22.28	22.16	23.5	
		75	0	22.36	22.33	22.19	23.5	
		64QAM	1	0	22.45	22.46	21.98	23.5
			1	37	22.64	22.49	22.17	23.5
			1	74	22.43	22.31	21.94	23.5
			36	0	21.28	21.33	21.22	22.5
			36	19	21.30	21.34	21.26	22.5
			36	39	21.22	21.30	21.22	22.5
75	0		21.30	21.29	21.21	22.5		
BW	Modulation		Channel	26740	26865	26990	Max. Tune-up (dBm)	
			Frequency (MHz)	819	831.5	844		
			1	0	24.06	24.04	23.92	25.5

BW	Modulation	Channel	20880	21100	21400	Max. Tune-up (dBm)		
		Frequency (MHz)	20930	21050	21350			
15M	QPSK	1	0	17.20	17.12	16.89	18.5	
		1	37	17.32	17.12	16.97	18.5	
		1	74	17.03	16.80	16.97	18.5	
		36	0	17.07	17.07	16.95	18.5	
		36	19	17.19	17.07	16.91	18.5	
		36	39	17.21	17.10	16.97	18.5	
		75	0	17.26	17.16	17.04	18.5	
		1	0	17.15	17.20	17.03	18.5	
		1	37	17.12	17.03	17.15	18.5	
		1	74	17.14	17.02	16.94	18.5	
	16QAM	36	0	17.04	16.84	16.91	18.5	
		36	19	17.12	16.80	16.77	18.5	
		36	39	17.05	17.06	16.96	18.5	
		75	0	17.02	16.85	16.80	18.5	
		64QAM	1	0	16.90	17.09	16.90	18.5
			1	37	17.23	16.84	16.99	18.5
			1	74	16.88	17.03	17.04	18.5
			36	0	16.91	16.72	16.94	18.5
			36	19	17.19	17.01	16.91	18.5
			36	39	17.20	16.81	16.84	18.5
75	0		17.02	16.84	16.84	18.5		
BW	Modulation		Channel	20980	21100	21400	Max. Tune-up (dBm)	
			Frequency (MHz)	21030	21150	21450		
			1	0	17.18	17.03	16.82	18.5

BW	Modulation	Channel	23205	23230	23255	Max. Tune-up (dBm)		
		Frequency (MHz)	779.5	782	784.5			
5M	QPSK	1	0	24.32	24.22	24.27	25.5	
		1	12	24.40	24.42	24.35	25.5	
		1	24	24.28	24.24	24.23	25.5	
		12	0	23.35	23.32	23.23	24.5	
		12	6	23.30	23.23	23.30	24.5	
		12	13	23.27	23.32	23.36	24.5	
		25	0	23.37	23.39	23.29	24.5	
		1	0	23.52	23.59	23.59	24.5	
		1	12	23.61	23.79	23.72	24.5	
		1	24	23.49	23.58	23.60	24.5	
	16QAM	12	0	22.48	22.44	22.39	23.5	
		12	6	22.39	22.42	22.42	23.5	
		12	13	22.34	22.46	22.42	23.5	
		25	0	22.47	22.35	22.37	23.5	
		64QAM	1	0	22.43	22.42	22.50	23.5
			1	12	22.69	22.73	22.75	23.5
			1	24	22.41	22.40	22.46	23.5
			12	0	21.29	21.22	21.32	22.5
			12	6	21.23	21.31	21.22	22.5
			12	13	21.23	21.18	21.16	22.5
25	0		21.21	21.25	21.25	22.5		
BW	Modulation		Channel	23205	23230	23255	Max. Tune-up (dBm)	
			Frequency (MHz)	779.5	782	784.5		
			1	0	24.32	24.22	24.27	25.5

BW	Modulation	Channel	26740	26865	26990	Max. Tune-up (dBm)		
		Frequency (MHz)	819	831.5	844			
10M	QPSK	1	0	24.06	24.04	23.92	25.5	
		1	24	24.38	24.25	24.18	25.5	
		1	49	24.17	23.96	23.85	25.5	
		25	0	23.19	23.17	23.08	24.5	
		25	12	23.20	23.30	23.16	24.5	
		25	25	23.20	23.18	23.15	24.5	
		50	0	23.18	23.22	23.21	24.5	
		1	0	23.38	23.35	23.28	24.5	
		1	24	23.64	23.56	23.48	24.5	
		1	49	23.32	23.33	23.19	24.5	
	16QAM	25	0	22.27	22.18	22.19	23.5	
		25	12	22.39	22.25	22.23	23.5	
		25	25	22.26	22.23	22.07	23.5	
		50	0	22.35	22.21	22.17	23.5	
		64QAM	1	0	22.35	22.39	21.97	23.5
			1	24	22.51	22.45	22.16	23.5
			1	49	22.37	22.45	21.91	23.5
			25	0	21.25	21.22	21.12	22.5
			25	12	21.25	21.23	21.15	22.5
			25	25	21.18	21.18	21.08	22.5
50	0		21.28	21.19	21.14	22.5		
BW	Modulation		Channel	26740	26865	26990	Max. Tune-up (dBm)	
			Frequency (MHz)	819	831.5	844		
			1	0	24.06	24.04	23.92	25.5

BW	Modulation	Channel	20975	21100	21425	Max. Tune-up (dBm)		
		Frequency (MHz)	21025	21150	21475			
10M	QPSK	1	0	17.17	17.15	16.88	18.5	
		1	12	17.32	17.13	16.95	18.5	
		1	24	17.07	16.90	16.96	18.5	
		12	0	17.12	17.16	16.96	18.5	
		12	6	17.13	17.20	17.15	18.5	
		12	13	17.27	17.16	17.07	18.5	
		25	0	17.33	17.19	16.99	18.5	
		1	0	17.19	17.18	17.03	18.5	
		1	12	17.08	17.12	17.12	18.5	
		1	24	17.15	17.05	16.91	18.5	
	16QAM	12	0	17.01	16.94	16.96	18.5	
		12	6	17.03	16.86	16.66	18.5	
		12	13	17.09	17.10	17.07	18.5	
		25	0	17.06	16.80	16.85	18.5	
		64QAM	1	0	16.97	17.04	16.94	18.5
			1	12	17.24	16.89	16.96	18.5
			1	24	16.94	16.95	17.07	18.5
			12	0	16.90	16.75	16.97	18.5
			12	6	17.18	16.97	16.88	18.5
			12	13	17.23	16.79	16.85	18.5
25	0		17.06	16.94	16.81	18.5		
BW	Modulation		Channel	20975	21100	21425	Max. Tune-up (dBm)	
			Frequency (MHz)	21025	21150	21475		
			1	0	17.17	17.15	16.88	18.5

BW	Modulation	Channel	23205	23230	23255	Max. Tune-up (dBm)		
		Frequency (MHz)	779.5	782	784.5			
5M	QPSK	1	0	24.32	24.22	24.27	25.5	
		1	12	24.40	24.42	24.35	25.5	
		1	24	24.28	24.24	24.23	25.5	
		12	0	23.35	23.32	23.23	24.5	
		12	6	23.30	23.23	23.30	24.5	
		12	13	23.27	23.32	23.36	24.5	
		25	0	23.37	23.39	23.29	24.5	
		1	0	23.52	23.59	23.59	24.5	
		1	12	23.61	23.79	23.72	24.5	
		1	24	23.49	23.58	23.60	24.5	
	16QAM	12	0	22.48	22.44	22.39	23.5	
		12	6	22.39	22.42	22.42	23.5	
		12	13	22.34	22.46	22.42	23.5	
		25	0	22.47	22.35	22.37	23.5	
		64QAM	1	0	22.43	22.42	22.50	23.5
			1	12	22.69	22.73	22.75	23.5
			1	24	22.41	22.40	22.46	23.5
			12	0	21.29	21.22	21.32	22.5
			12	6	21.23	21.31	21.22	22.5
			12	13	21.23	21.18	21.16	22.5
25	0		21.21	21.25	21.25	22.5		
BW	Modulation		Channel	23205	23230	23255	Max. Tune-up (dBm)	
			Frequency (MHz)	779.5	782	784.5		
			1	0	24.32	24.22	24.27	25.5

BW	Modulation	Channel	26740	26865	26990	Max. Tune-up (dBm)
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LTE Band 38								
BW	Modulation	RB Size		Channel		Max. Ture-up (dBm)		
		RB Offset	Low	Mid	High			
20M	QPSK	1	0	19.88	20.08	19.98	21.5	
		1	50	19.88	20.26	20.23	21.5	
		1	99	19.86	19.82	19.82	21.5	
		50	0	19.84	19.97	19.88	21.5	
		50	25	20.07	19.98	19.89	21.5	
		50	50	19.84	19.86	19.79	21.5	
	15M	15QAM	1	0	20.00	20.05	20.05	21.5
			1	50	20.06	20.12	20.06	21.5
			1	99	20.12	20.06	20.11	21.5
			50	0	20.18	20.25	20.11	21.5
			50	25	20.15	20.15	20.15	21.5
			50	50	20.16	20.14	20.03	21.5
	10M	8QAM	1	0	20.24	20.19	20.12	21.5
			1	50	20.09	20.11	20.04	21.5
			1	99	20.00	20.10	20.11	21.5
			50	0	20.08	20.10	20.05	21.5
			50	25	20.15	20.15	20.15	21.5
			50	50	20.16	20.14	20.03	21.5
	20M	QPSK	1	0	19.87	19.87	19.87	21.5
			1	37	20.18	20.21	20.16	21.5
			1	74	19.81	19.74	19.68	21.5
36			0	19.79	19.92	19.81	21.5	
36			19	19.95	19.93	19.90	21.5	
36			39	19.84	19.76	19.87	21.5	
15M		15QAM	1	0	19.97	19.95	19.87	21.5
			1	37	19.88	19.81	19.89	21.5
			1	74	19.84	19.84	19.97	21.5
			36	0	19.93	19.93	19.93	21.5
			36	19	20.02	20.01	20.00	21.5
			36	39	19.99	19.99	20.00	21.5
10M		8QAM	1	0	20.05	20.10	20.03	21.5
			1	37	20.00	20.00	19.92	21.5
			1	74	19.96	20.07	20.00	21.5
			36	0	19.94	20.06	20.00	21.5
			36	19	20.13	20.09	20.11	21.5
			36	39	20.14	20.10	20.02	21.5
20M		QPSK	1	0	19.83	20.01	19.83	21.5
			1	24	20.06	20.20	20.22	21.5
			1	49	19.85	19.80	19.69	21.5
	25		0	19.76	19.83	19.85	21.5	
	25		12	19.95	19.97	19.79	21.5	
	25		25	19.74	19.76	19.67	21.5	
	15M	15QAM	1	0	19.73	19.90	19.84	21.5
			1	24	20.06	20.01	19.97	21.5
			1	49	19.90	19.87	19.91	21.5
			25	0	19.93	19.73	19.86	21.5
			25	12	20.03	19.98	20.05	21.5
			25	25	20.00	19.97	20.00	21.5
	10M	8QAM	1	0	20.04	20.19	20.01	21.5
			1	24	20.13	19.77	19.97	21.5
			1	49	20.00	20.05	19.91	21.5
			25	0	19.92	20.04	19.97	21.5
			25	12	20.14	20.04	19.99	21.5
			25	25	20.08	20.08	20.02	21.5
	20M	QPSK	1	0	19.82	19.95	19.84	21.5
			1	12	20.11	20.20	20.15	21.5
			1	24	19.81	19.67	19.74	21.5
12			0	19.79	19.86	19.79	21.5	
12			6	19.95	19.97	19.76	21.5	
12			13	19.80	19.77	19.73	21.5	
15M		15QAM	1	0	19.86	19.87	19.83	21.5
			1	12	20.08	19.95	20.05	21.5
			1	24	19.90	19.81	20.01	21.5
			12	0	19.93	19.73	19.86	21.5
			12	6	20.08	20.08	20.11	21.5
			12	13	19.92	20.08	19.99	21.5
10M		8QAM	1	0	20.11	20.11	19.97	21.5
			1	0	20.15	19.76	19.99	21.5
			1	12	20.00	20.05	19.97	21.5
			1	24	19.91	20.06	20.06	21.5
			12	0	19.99	20.09	20.04	21.5
			12	6	20.11	20.09	20.06	21.5

LTE Band 41 (2486 - 2690MHz)								
BW	Modulation	RB Size		Channel		Max. Ture-up (dBm)		
		RB Offset	Low	Low Mid	High			
20M	QPSK	1	0	19.74	19.39	19.51	19.30	
		1	50	19.86	19.50	19.74	19.44	
		1	99	19.55	19.31	19.33	19.39	
		50	0	19.69	19.44	19.69	19.40	
		50	25	19.76	19.45	19.72	19.40	
		50	50	19.53	19.42	19.47	19.19	
	15M	15QAM	1	0	19.67	19.56	19.64	19.43
			1	50	19.74	19.36	19.54	19.43
			1	99	19.64	19.63	19.53	19.62
			50	0	19.25	19.25	19.36	19.35
			50	25	19.84	19.48	19.68	19.41
			50	50	19.78	19.53	19.56	19.35
	10M	8QAM	1	0	19.80	19.62	19.65	19.35
			1	0	19.31	19.43	19.47	19.31
			1	50	19.61	19.41	19.47	19.42
			1	99	19.42	19.30	19.33	19.33
			50	0	19.69	19.51	19.62	19.37
			50	25	19.65	19.57	19.68	19.45
	20M	QPSK	1	0	19.84	19.40	19.69	19.47
			1	37	19.75	19.39	19.69	19.34
			1	74	19.44	19.16	19.25	19.34
36			0	19.66	19.43	19.65	19.27	
36			19	19.69	19.30	19.60	19.26	
36			39	19.57	19.37	19.44	19.20	
15M		15QAM	1	0	19.62	19.43	19.54	19.34
			1	37	19.53	19.52	19.44	19.58
			1	74	19.12	19.11	19.25	19.28
			36	0	19.65	19.43	19.65	19.28
			36	19	19.81	19.40	19.58	19.33
			36	39	19.71	19.45	19.51	19.33
10M		8QAM	1	0	19.70	19.47	19.56	19.27
			1	0	19.30	19.40	19.41	19.24
			1	37	19.54	19.29	19.44	19.28
			1	74	19.38	19.10	19.26	19.36
			36	0	19.55	19.48	19.52	19.30
			36	19	19.59	19.54	19.57	19.39
20M		QPSK	1	0	19.69	19.47	19.68	19.34
			1	49	19.51	19.30	19.21	19.25
			25	0	19.59	19.29	19.63	19.34
	25		12	19.61	19.32	19.60	19.29	
	25		25	19.51	19.37	19.44	19.20	
	50		0	19.52	19.54	19.49	19.32	
	15M	15QAM	1	0	19.70	19.21	19.48	19.33
			1	24	19.62	19.51	19.50	19.47
			1	49	19.13	19.13	19.31	19.31
			25	0	19.65	19.43	19.60	19.48
			25	12	19.70	19.43	19.64	19.39
			25	25	19.77	19.50	19.52	19.33
	10M	8QAM	1	0	19.73	19.65	19.50	19.31
			1	0	19.17	19.35	19.44	19.16
			1	24	19.55	19.39	19.37	19.29
			1	49	19.32	19.20	19.31	19.28
			25	0	19.59	19.50	19.49	19.29
			25	12	19.57	19.42	19.64	19.43
	20M	QPSK	1	0	19.78	19.37	19.61	19.48
			1	12	19.85	19.37	19.66	19.29
			1	24	19.45	19.18	19.18	19.37
12			0	19.64	19.39	19.56	19.28	
12			6	19.63	19.42	19.63	19.28	
12			13	19.42	19.31	19.49	19.26	
15M		15QAM	1	0	19.57	19.49	19.60	19.28
			1	0	19.67	19.32	19.49	19.37
			1	12	19.57	19.48	19.51	19.52
			1	24	19.10	19.14	19.29	19.26
			12	0	19.56	19.33	19.58	19.40
			12	6	19.76	19.45	19.58	19.50
10M		8QAM	1	0	19.65	19.52	19.47	19.32
			1	0	19.77	19.55	19.61	19.26
			1	0	19.28	19.40	19.39	19.16
			1	12	19.46	19.37	19.32	19.33
			1	24	19.38	19.10	19.32	19.25
			12	0	19.55	19.36	19.61	19.25

LTE Band 66								
BW	Modulation	RB Size		Channel		Max. Ture-up (dBm)		
		RB Offset	Low	Mid	High			
20M	QPSK	1	0	18.16	18.10	18.11	19.5	
		1	50	18.47	18.48	18.43	19.5	
		1	99	18.20	18.08	18.13	19.5	
		50	0	18.10	18.22	18.18	19.5	
		50	25	18.30	18.39	18.31	19.5	
		50	50	18.15	18.12	18.21	19.5	
	15M	15QAM	1	0	18.02	18.08	18.14	19.5
			1	50	18.15	18.28	18.30	19.5
			1	99	18.23	18.20	18.17	19.5
			50	0	18.17	18.06	18.19	19.5
			50	25	17.95	18.10	18.22	19.5
			50	50	17.95	18.16	18.13	19.5
	10M	8QAM	1	0	17.91	18.04	18.06	19.5
			1	0	18.16	18.08	18.07	19.5
			1	50	18.40	18.17	18.12	19.5
			1	99	18.32	18.03	17.98	19.5
			50	0	18.19	18.06	18.13	19.5
			50	25	18.20	18.12	18.03	19.5
	20M	QPSK	1	0	18.05	18.05	18.00	19.5
			1	37	18.35	18.39	18.36	19.5
			1	74	18.19	18.07	18.05	19.5
36			0	18.03	18.15	18.13	19.5	
36			19	18.17	18.22	18.22	19.5	
36			39	18.04	18.07	18.18	19.5	
15M		15QAM	1	0	18.09	18.20	18.12	19.5
			1	37	17.89	17.99	18.0	

Default Power					
2.4GHz WLAN		Ant2			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
2.4GHz WLAN	802.11b 1Mbps	1	2412	15.98	17.50
		6	2437	16.23	17.50
		11	2462	16.24	17.50
	802.11g 6Mbps	1	2412	14.90	16.50
		6	2437	15.13	16.50
		11	2462	15.20	16.50
	802.11n-HT20 MCS0	1	2412	13.96	15.50
		6	2437	14.19	15.50
		11	2462	14.06	15.50

5GHz WLAN					
		Ant2			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.2GHz WLAN	802.11a 6Mbps	36	5180	13.01	14.50
		40	5200	13.19	14.50
		44	5220	13.11	14.50
	802.11n-HT20 MCS0	36	5180	13.06	14.50
		40	5200	13.15	14.50
		44	5220	13.03	14.50
	802.11n-HT40 MCS0	36	5180	13.08	14.50
		40	5200	13.13	14.50
		44	5220	13.14	14.50
	802.11ac-VHT20 MCS0	36	5180	13.18	14.50
		40	5200	13.01	14.50
		44	5220	13.09	14.50
802.11ac-VHT40 MCS0	36	5180	13.11	14.50	
	40	5200	13.08	14.50	
	44	5220	13.16	14.50	
802.11ac-VHT80 MCS0	42	5210	13.73	14.50	

5GHz WLAN					
		Ant2			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.3GHz WLAN	802.11a 6Mbps	52	5260	13.34	14.50
		56	5280	13.15	14.50
		60	5300	13.06	14.50
	802.11n-HT20 MCS0	52	5260	13.21	14.50
		56	5280	13.17	14.50
		60	5300	13.03	14.50
	802.11n-HT40 MCS0	52	5260	13.18	14.50
		54	5270	13.10	14.50
		62	5310	13.08	14.50
	802.11ac-VHT20 MCS0	52	5260	13.03	14.50
		56	5280	13.12	14.50
		60	5300	13.07	14.50
802.11ac-VHT40 MCS0	54	5270	13.34	14.50	
	62	5310	13.23	14.50	
	64	5320	13.46	14.50	
802.11ac-VHT80 MCS0	58	5290	13.29	14.50	

5GHz WLAN					
		Ant2			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.5GHz WLAN	802.11a 6Mbps	100	5500	13.34	14.50
		116	5580	13.04	14.50
		124	5620	13.21	14.50
	802.11n-HT20 MCS0	132	5660	13.17	14.50
		140	5700	13.43	14.50
		144	5720	13.28	14.50
	802.11n-HT40 MCS0	100	5500	13.28	14.50
		116	5580	13.28	14.50
		124	5620	13.22	14.50
	802.11ac-VHT20 MCS0	132	5660	13.18	14.50
		140	5700	13.31	14.50
		144	5720	13.23	14.50
802.11ac-VHT40 MCS0	102	5510	13.20	14.50	
	110	5550	13.23	14.50	
	126	5630	13.14	14.50	
802.11ac-VHT80 MCS0	134	5670	13.28	14.50	
	142	5710	13.27	14.50	
	100	5500	13.35	14.50	
802.11a 6Mbps	116	5580	13.32	14.50	
	124	5620	13.21	14.50	
	132	5660	13.12	14.50	
802.11n-HT20 MCS0	140	5700	13.15	14.50	
	144	5720	13.27	14.50	
	102	5510	13.24	14.50	
802.11ac-VHT40 MCS0	110	5550	13.37	14.50	
	126	5630	13.21	14.50	
	134	5670	13.34	14.50	
802.11ac-VHT80 MCS0	142	5710	13.14	14.50	
	106	5530	13.84	14.50	
	122	5610	13.38	14.50	
802.11ac-VHT80 MCS0	138	5690	13.42	14.50	

5GHz WLAN					
		Ant2			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.8GHz WLAN	802.11a 6Mbps	149	5745	13.37	14.50
		157	5785	12.99	14.50
		165	5825	13.25	14.50
	802.11n-HT20 MCS0	149	5745	13.13	14.50
		157	5785	13.31	14.50
		165	5825	13.19	14.50
	802.11n-HT40 MCS0	151	5755	13.37	14.50
		159	5795	13.22	14.50
		149	5745	13.02	14.50
	802.11ac-VHT20 MCS0	157	5785	13.06	14.50
		165	5825	13.14	14.50
		151	5755	13.20	14.50
802.11ac-VHT40 MCS0	159	5795	13.34	14.50	
	155	5775	13.87	14.50	

Ant2					
BT	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
BLE	1M	0	2402	0.46	2.00
		19	2440	0.97	2.00
	2M	39	2480	1.09	3.00
		0	2402	0.86	2.00
S2	1M	19	2440	1.14	3.00
		38	2478	1.47	3.00
	2M	0	2402	0.49	2.00
		19	2440	0.98	2.00
S8	1M	39	2480	1.70	3.00
		0	2402	0.61	2.00
	2M	19	2440	1.13	3.00
		39	2480	1.87	3.00
GFSK	1M	0	2402	6.65	10.00
		39	2441	6.50	8.00
	2M	78	2480	10.67	12.00
		0	2402	8.80	8.00
BREDR	DQPSK	39	2441	3.47	5.00
		78	2480	8.18	10.00
	8DPSK	0	2402	6.86	8.00
		39	2441	3.48	5.00

< Receiver Power / DSI-1 >					
2.4GHz WLAN		Ant2			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
2.4GHz WLAN	802.11b 1Mbps	1	2412	13.09	14.50
		6	2437	13.38	14.50
		11	2462	13.46	14.50
	802.11g 6Mbps	1	2412	13.50	14.50
		6	2437	13.50	14.50
		11	2462	13.50	14.50
	802.11n-HT20 MCS0	1	2412	12.50	14.50
		6	2437	12.50	14.50
		11	2462	12.50	14.50

5GHz WLAN					
		Ant2			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.2GHz WLAN	802.11a 6Mbps	36	5180	9.50	9.50
		40	5200	9.50	9.50
		44	5220	9.50	9.50
	802.11n-HT20 MCS0	36	5180	9.50	9.50
		40	5200	9.50	9.50
		44	5220	9.50	9.50
	802.11n-HT40 MCS0	36	5180	9.50	9.50
		40	5200	9.50	9.50
		44	5220	9.50	9.50
	802.11ac-VHT20 MCS0	36	5180	9.50	9.50
		40	5200	9.50	9.50
		44	5220	9.50	9.50
802.11ac-VHT40 MCS0	36	5180	9.50	9.50	
	40	5200	9.50	9.50	
	44	5220	9.50	9.50	
802.11ac-VHT80 MCS0	42	5210	8.87	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	9.50
		56	5280	9.50	9.50
		60	5300	9.50	9.50
	802.11n-HT20 MCS0	52	5260	9.50	9.50
		56	5280	9.50	9.50
		60	5300	9.50	9.50
	802.11n-HT40 MCS0	54	5270	9.50	9.50
		62	5310	9.50	9.50
		52	5260	9.50	9.50
	802.11ac-VHT20 MCS0	56	5280	9.50	9.50
		60	5300	9.50	9.50
		64	5320	9.50	9.50
802.11ac-VHT40 MCS0	54	5270	8.37	9.50	
	62	5310	8.91	9.50	
	58	5290	9.50	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	9.50
		116	5580	9.50	9.50
		124	5620	9.50	9.50
	802.11n-HT20 MCS0	132	5660	9.50	9.50
		140	5700	9.50	9.50
		144	5720	9.50	9.50
	802.11n-HT40 MCS0	100	5500	9.50	9.50
		116	5580	9.50	9.50
		124	5620	9.50	9.50
	802.11ac-VHT20 MCS0	132	5660	9.50	9.50
		140	5700	9.50	9.50
		144	5720	9.50	9.50
802.11ac-VHT40 MCS0	102	5510	9.50	9.50	
	110	5550	9.50	9.50	
	126	5630	9.50	9.50	
802.11ac-VHT80 MCS0	134	5670	9.50	9.50	
	142	5710	9.50	9.50	
	100	5500	9.50	9.50	
802.11a 6Mbps	116	5580	9.50	9.50	
	124	5620	9.50	9.50	
	132	5660	9.50	9.50	
802.11n-HT20 MCS0	140	5700	9.50	9.50	
	144	5720	9.50	9.50	
	102	5510	9.50	9.50	
802.11ac-VHT40 MCS0	110	5550	9.50	9.50	
	126	5630	9.50	9.50	
	134	5670	9.50	9.50	
802.11ac-VHT80 MCS0	142	5710	8.66	9.50	
	106	5530	8.66	9.50	
	122	5610	8.43	9.50	
802.11ac-VHT80 MCS0	138	5690	8.51	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	9.50
		157	5785	9.50	9.50
		165	5825	9.50	9.50
	802.11n-HT20 MCS0	149	5745	9.50	9.50
		157	5785	9.50	9.50
		165	5825	9.50	9.50
	802.11n-HT40 MCS0	151	5755	9.50	9.50
		159	5795	9.50	9.50
		149	5745	9.50	9.50
	802.11ac-VHT20 MCS0	157	5785	9.50	9.50
		165	5825	9.50	9.50
		151	5755	9.50	9.50
802.11ac-VHT40 MCS0	159	5795	9.50	9.50	
	155	5775	8.76	9.50	

Ant2					
BT	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
BLE	1M	0	2402	0.46	2.00
		19	2440	0.97	2.00