



In Collaboration with

s p e a g
CALIBRATION LABORATORY

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
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E-mail: cttl@chinattl.com http://www.chinattl.cn

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%.



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 $\pm$ 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 $\pm$ 0.2) °C	39.0 $\pm$ 6 %	1.95 mho/m $\pm$ 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.9 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	55.8 W/kg $\pm$ 18.8 % (k=2)
SAR averaged over 10 cm³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	6.13 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.6 W/kg $\pm$ 18.7 % (k=2)



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Appendix(Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	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: CTTL, 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

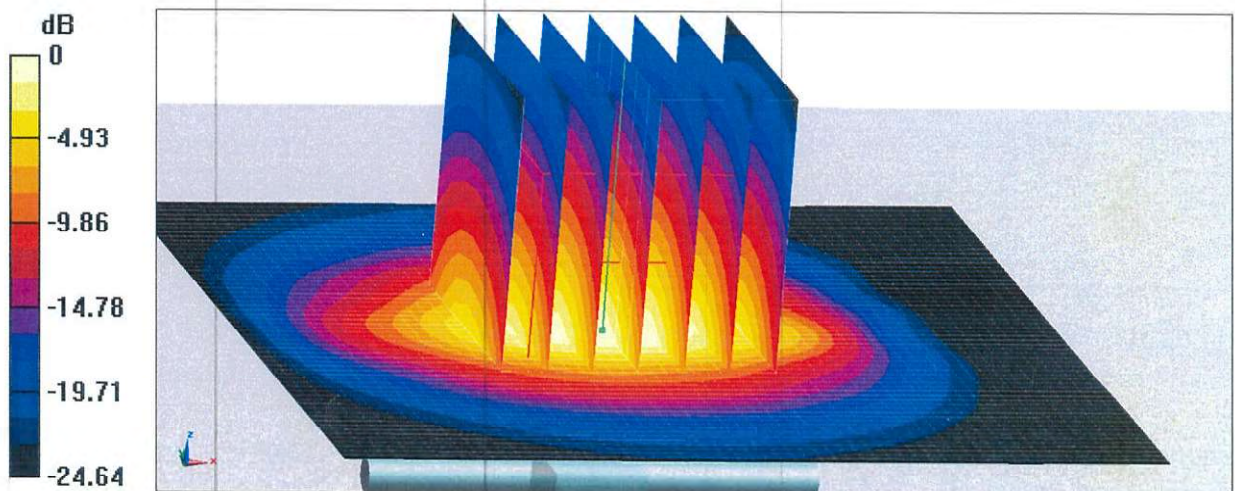
Peak SAR (extrapolated) = 30.6 W/kg

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



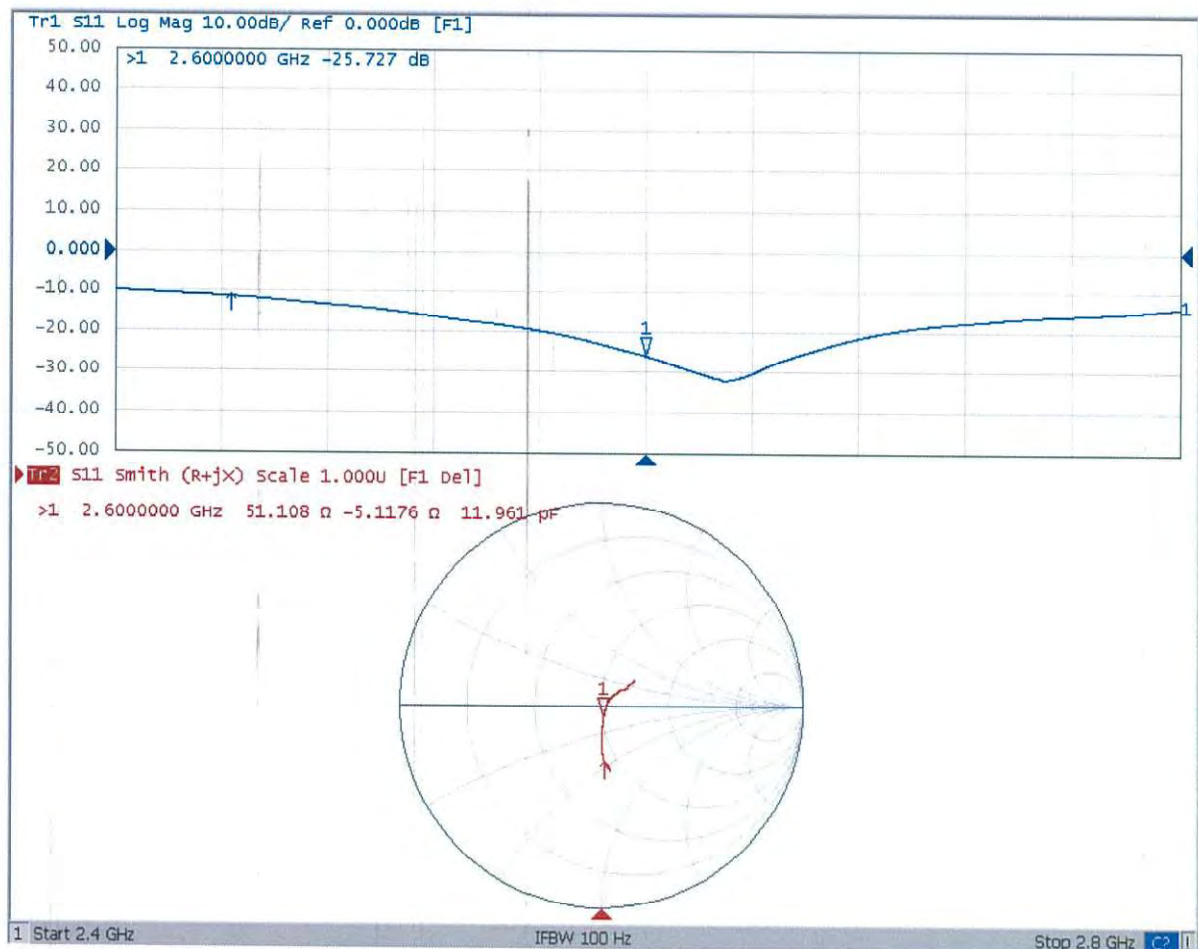
0 dB = 24.1 W/kg = 13.82 dBW/kg



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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.

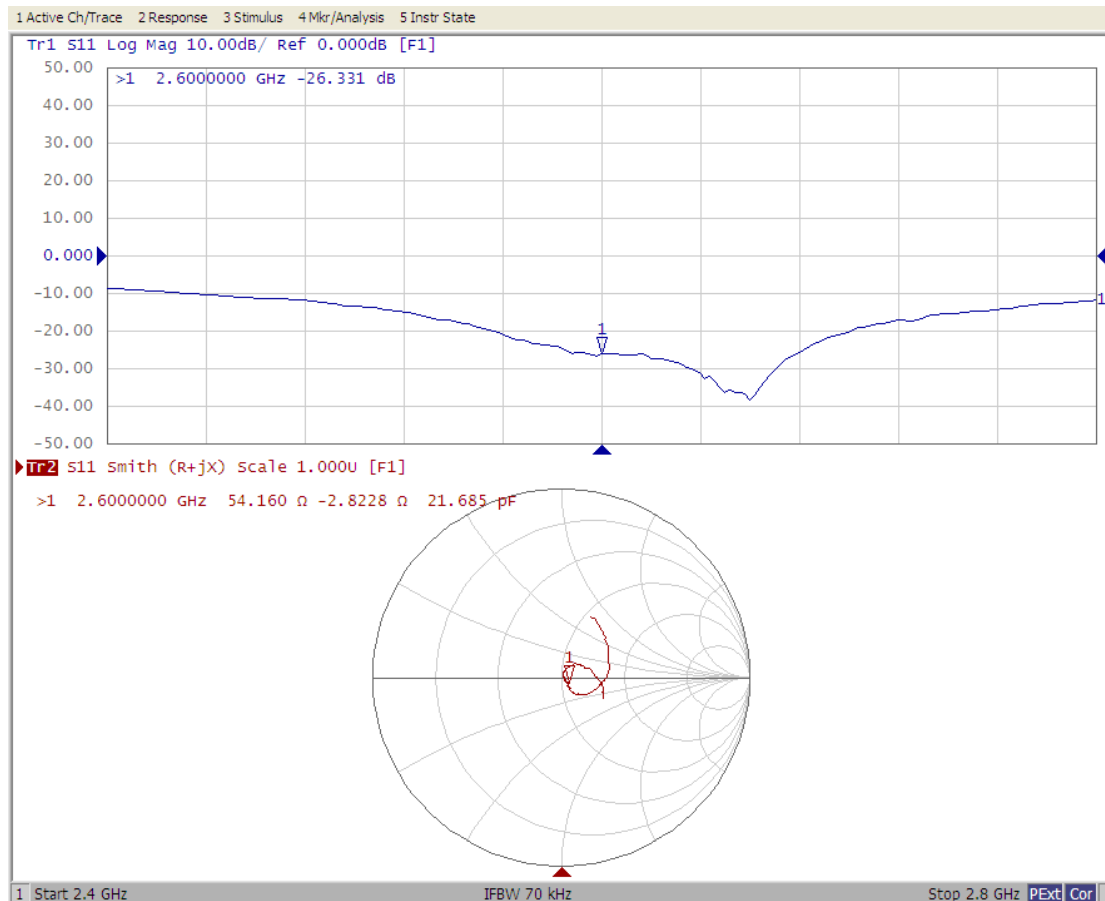
D2600V2 - SN: 1110						
2600 Head						
Date of Measurement	Return-loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021.09.16	-25.7		51.1		-5.1	
2022.09.16	-26.3	2.7	54.2	3.1	-2.8	2.3
2023.09.16	-26.0	-1.2	53.1	2	-4.2	0.9

<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.

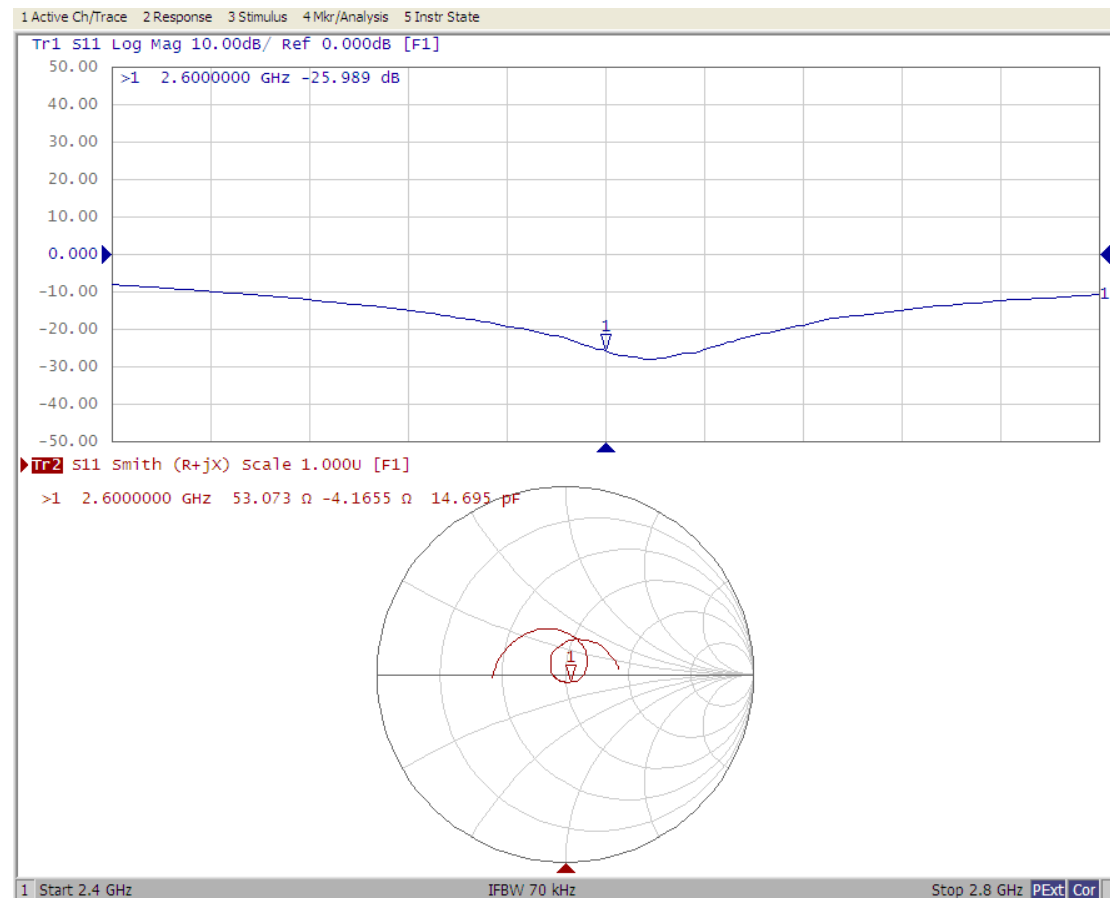
<Dipole Verification Data>

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 $(22\pm3)^{\circ}\text{C}$ and humidity $<70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	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:

- 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 = 4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5250 MHz $\pm$ 1 MHz 5600 MHz $\pm$ 1 MHz 5750 MHz $\pm$ 1 MHz	

Head TSL parameters at 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 $\pm$ 0.2) °C	36.6 $\pm$ 6 %	4.70 mho/m $\pm$ 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 $\pm$ 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 $\pm$ 24.2 % (k=2)



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	$50.5\Omega - 3.27j\Omega$
Return Loss	- 29.7dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	$54.2\Omega + 0.81j\Omega$
Return Loss	- 27.8dB

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	$49.4\Omega + 1.99j\Omega$
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

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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

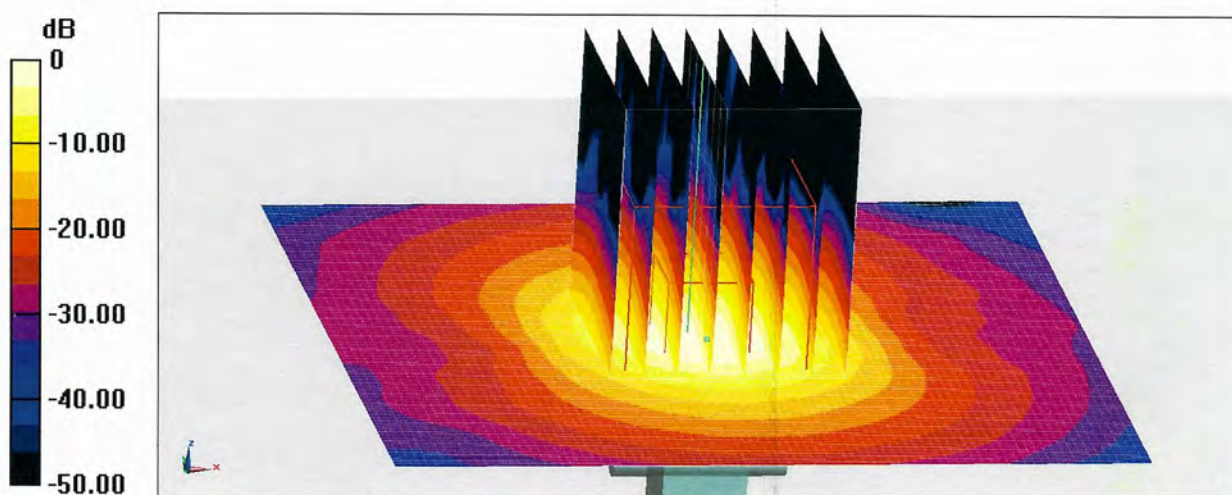


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Dipole Calibration /Pin=100mW, d=10mm, f=5750 MHz/Zoom Scan,
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 67.72 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 33.5 W/kg
SAR(1 g) = 7.59 W/kg; SAR(10 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

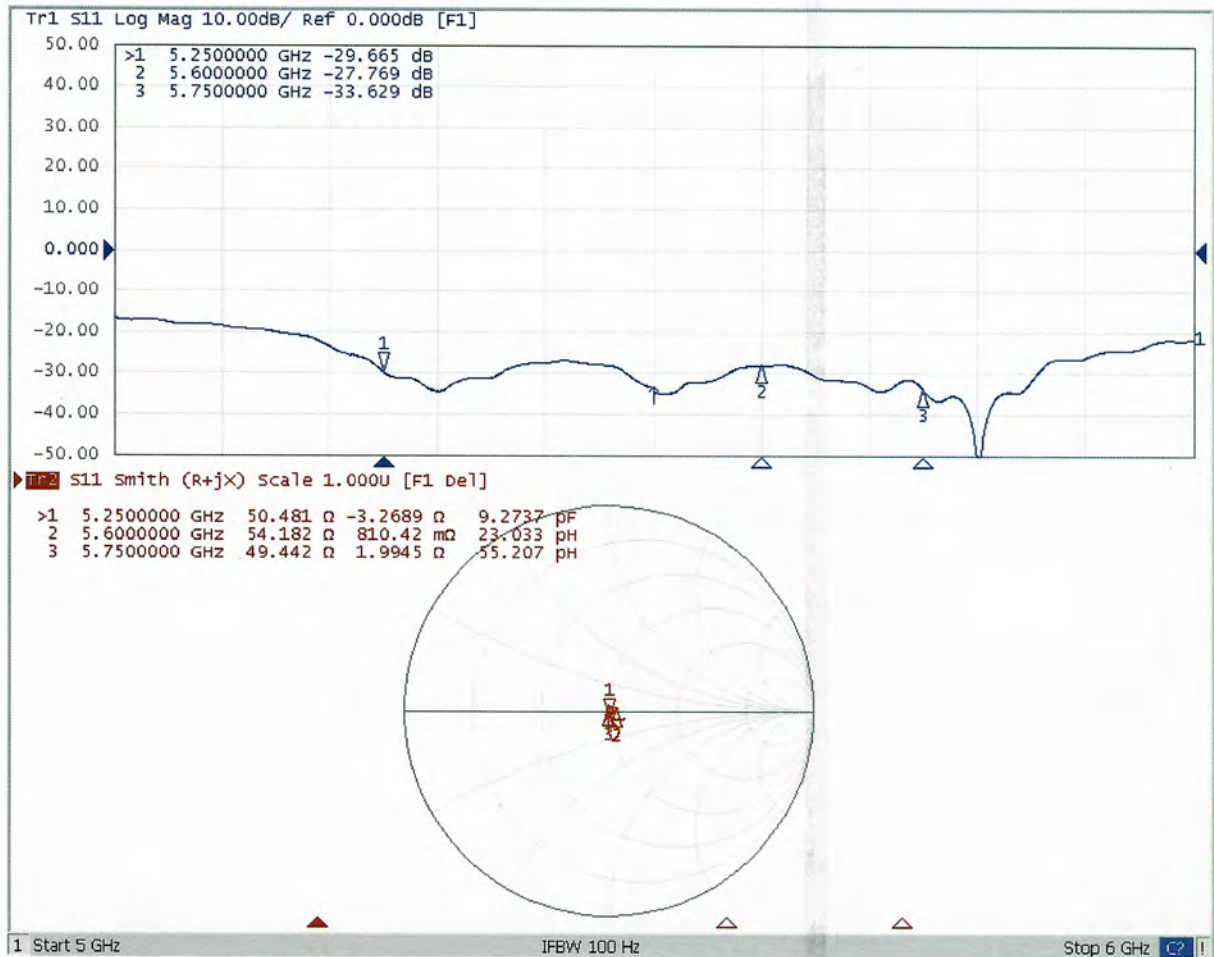




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Impedance Measurement Plot for Head TSL



D5GHzV2 - SN: 1315 Extended Dipole Calibrations

Referring to KDB 865664 D01, if dipoles are verified in return loss ($<-20\text{dB}$, 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.

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

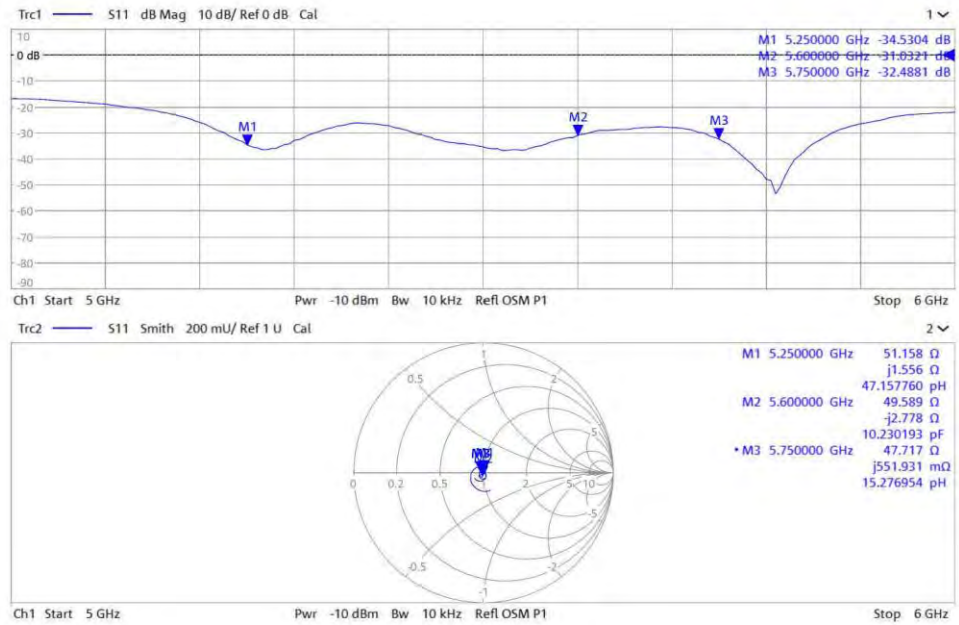
D5GHzV2 - SN: 1315						
5750MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.22.2021	-33.6		49.4		1.99	
10.21.2022	-32.49	-3.31	47.72	-1.68	0.55	-1.44
10.20.2023	-36.43	8.41	50.87	1.47	1.34	-0.65

<Justification of the extended calibration>

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

<Dipole Verification Data>

Head 5250-5750MHz _2022.10.21

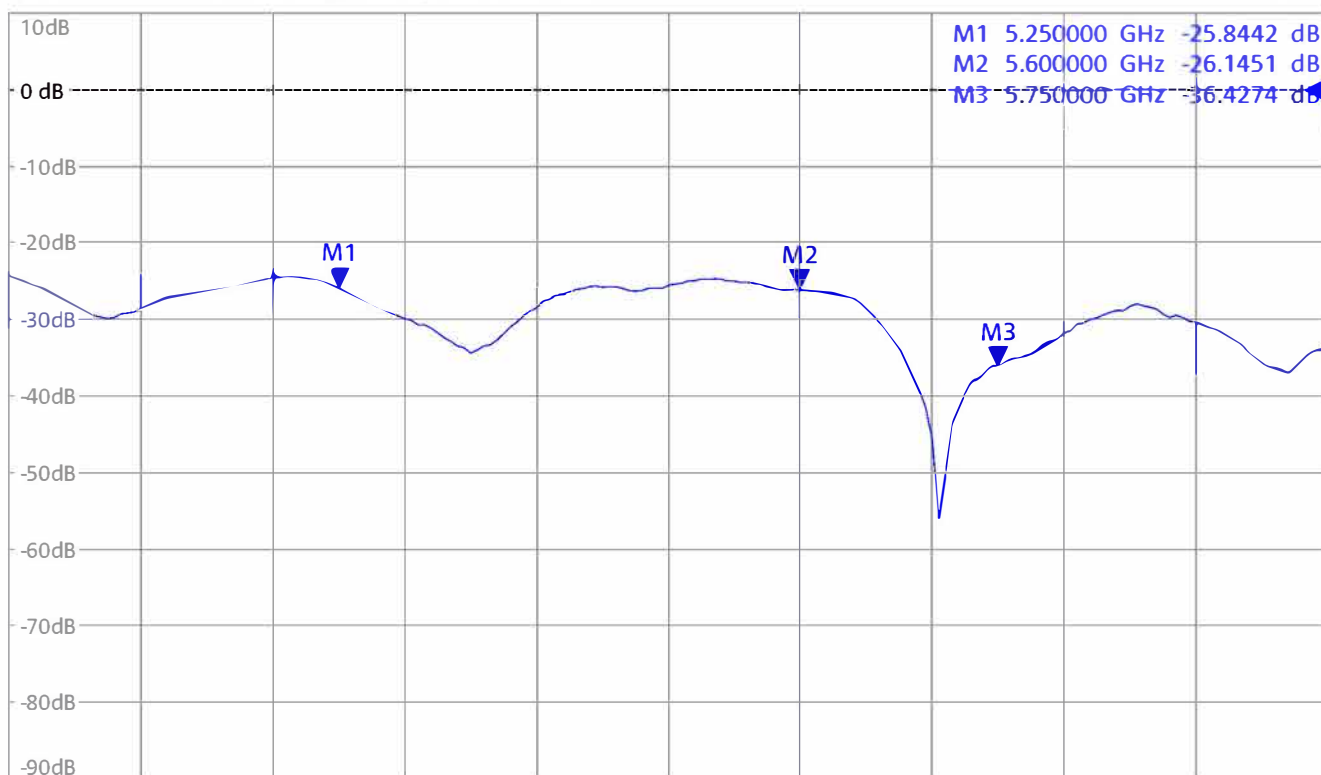


<Dipole Verification Data>

Head 5250-5750MHz _2023.10.20

Trc1 — S11 dB Mag 10 dB/ Ref 0 dB Cal

1

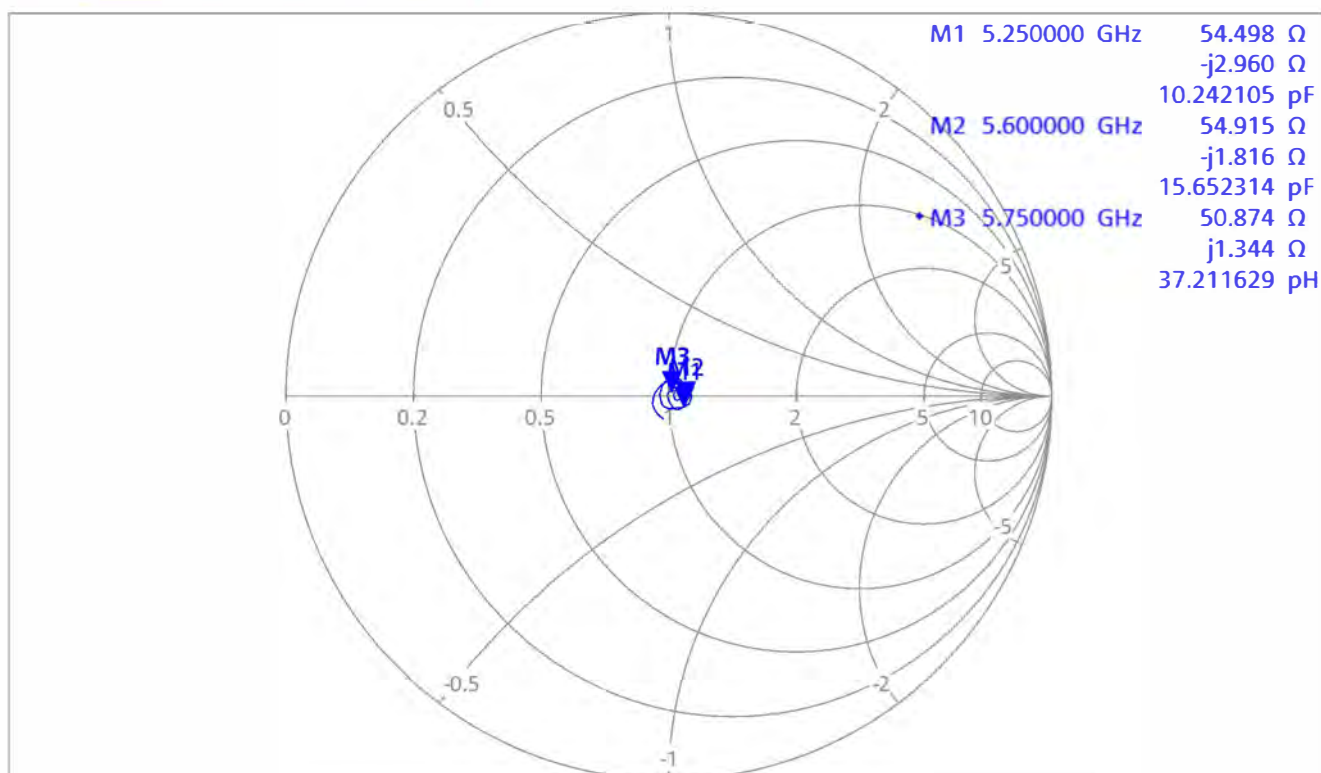


Ch1 Start 5 GHz Pwr -10 dBm Bw 10 kHz Refl OSM P1

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	810	
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)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	24.42	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	Mid	High	SPPP	Max. Turn-up	
		Channel	Frequency (MHz)	1800	1800	1800	MPP	Time-up (dB)	
20M	QPSK	1	0	24.18	24.14	24.14	0	25.5	
		1	50	24.43	24.42	24.82	0	25.5	
		1	99	24.47	24.42	24.15	0	25.5	
		50	25	23.47	23.47	23.55	0	24.5	
		50	25	23.54	23.49	23.57	1	24.5	
	16QAM	100	0	23.47	23.49	23.52	1	24.5	
		1	0	23.54	23.38	23.42	1	24.5	
		1	50	23.87	23.77	23.66	1	24.5	
		1	99	24.44	23.45	23.37	1	24.5	
		50	25	22.52	22.54	22.54	2	23.5	
40M	16QAM	100	0	22.45	22.47	22.38	2	23.5	
		1	0	22.72	22.76	22.62	2	23.5	
		1	99	22.38	22.37	22.44	2	23.5	
		50	25	21.43	21.54	21.54	3	22.5	
		50	25	21.53	21.53	21.57	3	22.5	
	64QAM	50	25	21.43	21.59	21.37	3	22.5	
		100	0	21.45	21.55	21.44	4	22.5	
		1	0	21.71	21.52	21.38	3	22.5	
		1	99	22.38	22.37	22.42	2	23.5	
		50	25	22.52	22.54	22.54	2	23.5	
60M	QPSK	1	0	24.13	24.03	24.07	0	25.5	
		1	37	24.36	24.29	24.41	0	25.5	
		1	74	24.34	24.01	24.11	0	25.5	
		36	0	23.38	23.45	23.46	1	24.5	
		36	19	23.51	23.34	23.49	1	24.5	
	16QAM	36	19	23.52	23.59	23.36	1	24.5	
		75	0	23.38	23.41	23.35	1	24.5	
		1	0	23.49	23.32	23.35	1	24.5	
		1	37	23.85	23.65	23.57	1	24.5	
		1	74	23.38	23.36	23.26	1	24.5	
80M	16QAM	36	0	22.38	22.36	22.51	2	23.5	
		36	19	22.51	22.49	22.41	2	23.5	
		36	39	22.59	22.58	22.34	2	23.5	
		75	0	22.38	22.39	22.45	2	23.5	
		1	0	22.32	22.37	22.35	2	23.5	
	64QAM	1	37	22.69	22.66	22.60	2	23.5	
		1	74	22.37	22.37	22.39	2	23.5	
		36	0	21.42	21.44	21.42	3	22.5	
		36	19	21.49	21.52	21.54	3	22.5	
		36	39	21.41	21.47	21.50	3	22.5	
120M	QPSK	75	0	21.38	21.52	21.38	3	22.5	
		1	0	22.32	22.37	22.35	2	23.5	
		1	37	22.69	22.66	22.60	2	23.5	
		1	74	22.37	22.37	22.39	2	23.5	
		36	0	21.42	21.44	21.42	3	22.5	
	16QAM	36	19	21.49	21.52	21.54	3	22.5	
		36	39	21.41	21.47	21.50	3	22.5	
		75	0	21.38	21.52	21.38	3	22.5	
		1	0	22.32	22.37	22.35	2	23.5	
		1	37	22.69	22.66	22.60	2	23.5	
160M	QPSK	1	0	24.13	24.03	24.07	0	25.5	
		1	37	24.36	24.29	24.41	0	25.5	
		1	74	24.34	24.01	24.11	0	25.5	
		36	0	23.38	23.45	23.46	1	24.5	
		36	19	23.51	23.34	23.49	1	24.5	
	16QAM	36	19	23.52	23.59	23.36	1	24.5	
		75	0	23.38	23.41	23.35	1	24.5	
		1	0	23.49	23.32	23.35	1	24.5	
		1	37	23.85	23.65	23.57	1	24.5	
		1	74	23.38	23.36	23.26	1	24.5	
240M	16QAM	36	0	22.38	22.36	22.51	2	23.5	
		36	19	22.51	22.49	22.41	2	23.5	
		36	39	22.59	22.58	22.34	2	23.5	
		75	0	22.38	22.39	22.45	2	23.5	
		1	0	22.32	22.37	22.35	2	23.5	
	64QAM	1	37	22.69	22.66	22.60	2	23.5	
		1	74	22.37	22.37	22.39	2	23.5	
		36	0	21.42	21.44	21.42	3	22.5	
		36	19	21.49	21.52	21.54	3	22.5	
		36	39	21.41	21.47	21.50	3	22.5	
320M	QPSK	75	0	21.38	21.52	21.38	3	22.5	
		1	0	22.32	22.37	22.35	2	23.5	
		1	37	22.69	22.66	22.60	2	23.5	
		1	74	22.37	22.37	22.39	2	23.5	
		36	0	21.42	21.44	21.42	3	22.5	
	16QAM	36	19	21.49	21.52	21.54	3	22.5	
		36	39	21.41	21.47	21.50	3	22.5	
		75	0	21.38	21.52	21.38	3	22.5	
		1	0	22.32	22.37	22.35	2	23.5	
		1	37	22.69	22.66	22.60	2	23.5	
480M	QPSK	1	0	24.13	24.03	24.07	0	25.5	
		1	37	24.36	24.29	24.41	0	25.5	
		1	74	24.34	24.01	24.11	0	25.5	
		36	0	23.38	23.45	23.46	1	24.5	
		36	19	23.51	23.34	23.49	1	24.5	
	16QAM	36	19	23.52	23.59	23.36	1	24.5	
		75	0	23.38	23.41	23.35	1	24.5	
		1	0	23.49	23.32	23.35	1	24.5	
		1	37	23.85	23.65	23.57	1	24.5	
		1	74	23.38	23.36	23.26	1	24.5	
640M	16QAM	36	0	22.38	22.36	22.51	2	23.5	
		36	19	22.51	22.49	22.41	2	23.5	
		36	39	22.59	22.58	22.34	2	23.5	
		75	0	22.38	22.39	22.45	2	23.5	
		1	0	22.32	22.37	22.35	2	23.5	
	64QAM	1	37	22.69	22.66	22.60	2	23.5	
		1	74	22.37	22.37	22.39	2	23.5	
		36	0	21.42	21.44	21.42	3	22.5	
		36	19	21.49	21.52	21.54	3	22.5	
		36	39	21.41	21.47	21.50	3	22.5	
960M	QPSK	75	0	21.38	21.52	21.38	3	22.5	
		1	0	22.32	22.37	22.35	2	23.5	
		1	37	22.69	22.66	22.60	2	23.5	
		1	74	22.37	22.37	22.39	2	23.5	
		36	0	21.42	21.44	21.42	3	22.5	
	16QAM	36	19	21.49	21.52	21.54	3	22.5	
		36	39	21.41	21.47	21.50	3	22.5	
		75	0	21.38	21.52	21.38	3	22.5	
		1	0	22.32	22.37	22.35	2	23.5	
		1	37	22.69	22.66	22.60	2	23.5	
1280M	QPSK	1	0	24.13	24.03	24.07	0	25.5	
		1	37	24.36	24.29	24.41	0	25.5	
		1	74	24.34	24.01	24.11	0	25.5	
		36	0	23.38	23.45	23.46	1	24.5	
		36	19	23.51	23.34	23.49	1	24.5	
	16QAM	36	19	23.52	23.59	23.36	1	24.5	
		75	0	23.38	23.41	23.35	1	24.5	
		1	0	23.49	23.32	23.35	1	24.5	
		1	37	23.85	23.65	23.57	1	24.5	
		1	74	23.38	23.36	23.26	1	24.5	
1920M	16QAM	36	0	22.38	22.36	22.51	2	23.5	
		36	19	22.51	22.49	22.41	2	23.5	
		36	39	22.59	22.58	22.34	2	23.5	
		75	0	22.38	22.39	22.45	2	23.5	
		1	0	22.32	22.37	22.35	2	23.5	
	64QAM	1	37	22.69	22.66	22.60	2	23.5	
		1	74	22.37	22.37	22.39	2	23.5	
		36	0	21.42	21.44	21.42	3	22.5	
		36	19	21.49	21.52	21.54	3	22.5	
		36	39	21.41	21.47	21.50	3	22.5	

LTE Band 4															
BW	Modulation	RB Size		RB Offset	Low	Mid	High	SPPP	Max. Turn-up						
		Channel													
		Frequency (MHz)													
20M	QPSK	1725		1725	1725	1725	1725	0	25.5						
		1	0												
		1	50												
		1	99												
		50	0												
40M	16QAM	22.52		22.52	22.52	22.52	22.52	2	23.5						
		1	0												
		1	50												
		1	99												
		50	0												
80M	64QAM	21.42		21.42	21.42	21.42	21.42	2	23.5						
		1	0												
		1	50												
		1	99												
		50	0												
160M	QPSK	1717.5		1717.5	1717.5	1717.5	1717.5	0	25.5						
		1	0												
		1	37												
		1	74												
		36	0												
320M	16QAM	22.52		22.52	22.52	22.52	22.52	2	23.5						
		1	0												
		1	50												
		1	99												
		50	0												
640M	64QAM	21.42		21.42	21.42	21.42	21.42	2	23.5						
		1	0												
		1	50												
		1	99												
		50	0												

LTE Band 5									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	SPPP	Max.	
		Channel	Frequency (MHz)	824.5	825.5	826.5	MPP (dB)	Time-up (dB)	
QPSK	10QM	1	0	24.03	24.03	24.09	0	25.5	
		1	24	24.33	24.22	24.38	0	25.5	
		1	49	24.12	24.02	24.06	0	25.5	
		25	0	23.41	23.30	23.40	1	24.5	
		25	12	23.33	23.30	23.30	1	24.5	
		25	25	23.39	23.31	23.30	1	24.5	
		50	0	23.35	23.25	23.40	1	24.5	
		1	0	23.17	23.01	22.93	1	24.5	
		1	24	23.32	23.68	23.07	1	24.5	
		1	49	22.71	23.32	22.75	1	24.5	
16QM	64QM	25	0	21.40	21.38	21.42	3	22.5	
		25	12	21.33	21.41	21.33	3	22.5	
		25	25	21.42	21.37	21.54	2	23.5	
		25	25	22.40	22.36	22.44	2	23.5	
		50	0	22.28	22.28	22.42	2	23.5	
		1	0	22.36	22.15	22.20	2	23.5	
		1	24	22.59	22.31	22.41	2	23.5	
		1	49	22.23	21.95	22.06	2	23.5	
		25	0	21.40	21.38	21.42	3	22.5	
		25	12	21.33	21.41	21.33	3	22.5	
QPSK	80M	Channel	3067.5	3067.5	3067.5	3067.5	0	22.5	
		Frequency (MHz)	826.5	826.5	826.5	MPP (dB)	Time-up (dB)		
		1	0	23.88	24.02	23.99	0	25.5	
		1	12	24.23	24.14	24.36	0	25.5	
		1	24	24.08	23.98	24.01	0	24.5	
		12	0	23.38	23.10	23.28	1	24.5	
		12	6	23.32	23.29	23.26	1	24.5	
		12	13	23.28	23.20	23.22	1	24.5	
		25	0	23.05	23.05	23.28	2	24.5	
		1	0	23.03	23.42	22.79	1	24.5	
16QM	64QM	1	12	23.19	23.63	22.97	1	24.5	
		1	24	23.35	23.25	23.40	1	24.5	
		12	0	22.39	22.29	22.50	2	23.5	
		12	6	22.28	22.27	22.47	2	23.5	
		12	13	22.30	22.27	22.40	2	23.5	
		25	0	22.37	22.18	22.33	2	23.5	
		1	0	22.21	22.11	22.21	2	23.5	
		1	12	22.51	22.24	22.32	2	23.5	
		1	24	22.19	22.35	22.16	2	23.5	
		12	0	21.39	21.30	21.49	3	22.5	
QPSK	3M	12	6	21.30	21.29	21.34	3	22.5	
		12	13	21.16	21.41	21.29	3	22.5	
		25	0	21.31	21.31	21.29	3	22.5	
		Channel	2041.5	2041.5	2041.5	2041.5	0	25.5	
		Frequency (MHz)	828.5	828.5	828.5	MPP (dB)	Time-up (dB)		
		1	0	23.92	23.97	24.06	0	25.5	
		1	7	24.24	24.11	24.33	0	25.5	
		1	14	24.07	23.97	23.93	0	25.5	
		8	0	23.27	23.14	23.34	1	24.5	
		8	3	23.33	23.16	23.30	1	24.5	
16QM	64QM	8	7	23.37	23.30	23.30	0	24.5	
		15	0	23.36	23.14	23.35	1	24.5	
		1	0	23.05	23.41	22.84	1	24.5	
		1	7	23.37	23.09	23.06	1	24.5	
		1	14	22.60	23.31	22.65	1	24.5	
		8	0	22.41	22.23	22.44	2	23.5	
		8	3	22.40	22.27	22.47	2	23.5	
		8	7	22.38	22.28	22.30	2	23.5	
		15	0	22.34	22.25	22.39	2	23.5	
		1	0	22.34	22.07	22.24	2	23.5	
QPSK	80M	1	7	22.56	22.19	22.29	2	23.5	
		1	14	22.17	21.83	22.04	2	23.5	
		8	0	21.30	21.31	21.42	3	22.5	
		8	3	21.31	21.29	21.41	3	22.5	
		8	7	21.26	21.37	21.30	3	22.5	
		15	0	21.23	21.18	21.29	3	22.5	
		Channel	2047.5	2047.5	2047.5	2047.5	0	25.5	
		Frequency (MHz)	829.7	829.7	829.7	MPP (dB)	Time-up (dB)		
		1	0	23.98	23.96	24.18	0	25.5	
		1	2	24.31	24.15	24.30	0	25.5	
16QM	64QM	1	5	24.02	24.01	24.05	0	25.5	
		3	0	24.30	24.17	24.30	0	25.5	
		3	1	24.32	24.25	24.30	0	25.5	
		3	3	24.37	24.30	24.27	0	25.5	
		6	0	23.26	23.17	23.30	1	24.5	
		1	0	23.07	23.00	23.01	1	24.5	
		1	2	23.19	23.05	22.94	1	24.5	
		1	5	22.64	23.30	22.74	1	24.5	
		3	0	22.48	22.30	22.48	1	24.5	
		6	0	22.35	22.33	22.51	1	24.5	
QPSK	320M	3	3	23.31	23.34	23.32	1	24.5	
		6	0	22.35	22.26	22.39	2	23.5	
		6	24	22.34	22.12	22.26	2	23.5	
		1	2	22.56	22.19	22.27	2	23.5	
		1	5	22.18	21.81	22.02	2	23.5	
		3	0	22.31	22.25	22.44	2	23.5	
		3	1	22.31	22.27	22.30	2	23.5	
		3	3	22.36	22.37	22.33	2	23.5	
		6	0	21.34	21.25	21.22	3	22.5	

LTE Band 7										
BW	Modulation	RB Size		RB Offset	Low			High	SCPP	Max. Time-up (dBm)
		Channel	Frequency (MHz)		2510	2535	2560			
20M	QPSK	1	0	23.55	23.67	23.79	0	23		
		1	50	24.25	24.02	24.19	0	25		
		1	99	23.91	23.58	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		
		100	0	23.10	22.75	23.09	1	24		
		1	0	23.02	22.72	23.35	1	24		
	16QAM	1	50	23.29	23.03	23.60	1	24		
		1	99	23.01	22.67	23.21	1	24		
		50	0	22.06	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		
		100	0	22.05	21.68	21.93	2	23		
		1	0	22.13	22.02	21.58	2	23		
		1	50	22.49	22.35	21.97	2	23		
	64QAM	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		
		50	50	21.13	21.04	20.97	3	22		
		100	0	21.04	21.06	21.03	3	22		
BW	Modulation	Channel	28825	21160	21375	SCPP	Max. Time-up (dBm)			
		Frequency (MHz)	2887.5	2835	2862.5	MPR				
	QPSK	1	0	23.84	23.54	23.69	0	25		
		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	19	23.07	22.81	22.81	1	24		
		36	39	23.11	22.69	23.06	1	24		
		75	0	22.97	22.62	22.96	1	24		
		1	0	22.98	22.56	22.22	1	24		
	16QAM	1	37	23.30	22.88	23.07	1	24		
		1	74	22.86	22.63	23.20	1	24		
		36	0	22.04	21.62	21.67	2	23		
		36	19	21.74	21.74	21.97	2	23		
		36	39	22.01	21.50	21.78	2	23		
		75	0	22.00	21.58	21.92	2	23		
		1	37	22.42	22.28	21.89	2	23		
		1	74	22.00	21.95	21.60	2	23		
	64QAM	36	0	20.99	21.05	20.84	3	22		
		36	19	21.00	21.04	21.04	3	22		
		36	39	21.02	20.96	20.86	3	22		
		75	0	20.90	21.02	21.02	3	22		
BW	Modulation	Channel	28900	21160	21400	SCPP	Max. Time-up (dBm)			
		Frequency (MHz)	2895	2835	2865	MPR				
	QPSK	1	0	23.58	23.53	23.67	0	25		
		1	24	24.25	23.99	24.14	0	25		
		1	49	23.76	23.94	23.72	0	25		
		25	0	22.97	22.78	22.89	1	24		
		25	12	23.13	22.84	22.78	1	24		
		25	25	23.05	22.79	23.02	1	24		
		50	0	22.96	22.68	23.06	1	24		
		1	0	22.91	22.63	23.23	1	24		
	16QAM	1	24	23.33	23.02	23.48	1	24		
		1	49	23.29	22.96	23.13	1	24		
		25	0	22.97	21.99	21.89	2	23		
		25	12	22.11	21.69	21.88	2	23		
		25	25	21.98	21.50	21.85	2	23		
		50	0	21.95	21.54	21.86	2	23		
	64QAM	1	0	21.98	21.91	21.52	2	23		
		1	24	22.45	22.34	21.96	2	23		
		1	49	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		
		25	25	21.09	20.94	20.87	3	22		
		50	0	20.92	21.02	21.01	3	22		
BW	Modulation	Channel	28975	21160	21425	SCPP	Max. Time-up (dBm)			
		Frequency (MHz)	2892.5	2835	2867.5	MPR				
	QPSK	1	0	23.94	23.56	23.70	0	25		
		1	12	24.16	23.90	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	13	22.99	22.77	23.03	1	24		
		25	0	23.06	22.64	23.00	1	24		
		1	0	22.99	22.69	23.20	1	24		
	16QAM	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		
		50	0	21.95	21.54	21.86	2	23		
		25	0	21.98	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		
	64QAM	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		
		12	13	20.99	20.96	20.87	3	22		
		25	0	21.02	20.96	20.96	3	22		

LTE Band 13											
BW	Modulation	RB Size		RB Offset	Mid			SCPP	Max. Time-up (dBm)		
		Channel	Frequency (MHz)		782	23230					
10M	QPSK	1	0	24.45	24.45	0	25.5				
		1	24	24.54	24.54	0	25.5				
		1	49	24.40	24.40	0	25.5				
		25	0	23.51	23.51	1	24.5				
		25	12	23.63	23.63	1	24.5				
		25	25	23.56	23.56	1	24.5				
		50	0	23.53	23.53	1	24.5				
		1	0	23.46	23.46	1	24.5				
	16QAM	1	24	23.74	23.74	1	24.5				
		1	49	23.56	23.56	1	24.5				
		25	0	22.51	22.51	2	23.5				
		25	12	22.52	22.52	2	23.5				
		25	25	22.49	22.49	2	23.5				
		50	0	22.55	22.55	2	23.5				
		1	0	22.56	22.56	2	23.5				
		1	24	22.78	22.78	2	23.5				
64QAM	1	49	22.59	22.59	2	23.5					
	25	0	21.49	21.49	3	22.5					
	25	12	21.48	21.48	3	22.5					
	25	25	21.47	21.47	3	22.5					
	50	0	21.50	21.50	3	22.5					
	5M	QPSK	Channel	23205	23230	23255	SCPP	Max. Time-up (dBm)			
			Frequency (MHz)	779.5	782	784.5	MPR				
			1	0	24.36	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	23.50	23.51	23.49	1	24.5			
12			13	23.54	23.45	23.50	1	24.5			
16QAM		25	0	23.48	23.51	23.42	1	24.5			
		1	0	23.36	23.35	23.44	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			
		12	13	22.38	22.37	22.41	2	23.5			
		25	0	22.49	22.40	22.53	2	23.5			
64QAM	1	0	22.45	22.54	22.43	2	23.5				
	1	12	22.73	22.67	22.72	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	21.38	3	22.5				
	12	13	21.39	21.34	21.38	3	22.5				
	25	0	21.39	21.47	21.47	3	22.5				

LTE Band 38										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	SCPF	Max.	Max. Turn-up	Max. Turn-down
		Channel	Frequency (MHz)	3800	3850	3900	MHz	Turn-up (dB)		
20M	QPSK	1	0	23.67	23.65	23.65	0	25		
		1	0	24.21	24.22	0	25			
		1	99	23.65	23.62	23.65	0	25		
		50	0	23.62	23.13	23.13	1	24		
		50	25	23.13	23.09	23.09	1	24		
		50	50	23.07	23.11	23.08	1	24		
		100	0	23.07	23.12	23.10	1	24		
		1	0	23.05	23.02	23.01	1	24		
		1	50	23.03	23.03	23.10	1	24		
		1	99	22.88	22.78	22.73	1	24		
20M	16QAM	1	0	22.09	22.09	22.12	2	23		
		50	25	22.13	22.11	22.14	2	23		
		50	50	22.15	22.08	22.11	2	23		
		100	0	22.05	21.01	20.08	3	22		
		1	0	21.76	21.65	21.61	2	23		
		1	50	22.00	22.27	21.93	2	23		
		1	99	21.61	21.69	21.52	2	23		
		50	0	20.96	20.94	21.04	3	22		
		50	25	21.06	20.97	21.02	3	22		
		100	0	20.97	21.04	20.95	3	22		
20M	64QAM	1	0	20.95	21.01	20.98	3	22		
		1	50	21.06	20.97	21.02	3	22		
		1	99	21.61	21.69	21.52	2	23		
		50	0	20.96	20.94	21.04	3	22		
		50	25	21.06	20.97	21.02	3	22		
		100	0	20.97	21.04	20.95	3	22		
		100	0	20.95	21.01	20.98	3	22		
		1	0	21.76	21.65	21.61	2	23		
		1	50	22.00	22.27	21.93	2	23		
		1	99	21.61	21.69	21.52	2	23		
20M	QPSK	1	0	23.72	23.69	23.74	0	25		
		1	37	24.32	24.23	24.19	0	25		
		1	74	23.89	23.77	23.88	0	25		
		36	0	23.88	23.52	23.51	1	24		
		36	19	23.87	23.13	23.07	1	24		
		36	38	23.61	23.00	22.98	1	24		
		75	0	23.70	23.00	23.00	1	24		
		1	0	22.91	22.94	22.97	1	24		
		1	37	23.26	23.27	23.03	1	24		
		1	74	23.63	23.68	23.66	1	24		
10M	16QAM	1	0	21.96	21.89	22.07	2	23		
		36	19	22.12	22.01	22.13	2	23		
		36	38	22.38	22.31	22.08	2	23		
		75	0	21.98	21.98	21.99	2	23		
		1	0	21.77	21.84	21.67	2	23		
		1	37	22.08	22.09	21.87	2	23		
		1	74	21.81	21.87	21.75	2	23		
		36	0	20.86	20.82	20.99	3	22		
		36	19	21.62	20.83	20.83	3	22		
		75	0	20.86	20.89	20.82	3	22		
10M	64QAM	1	0	20.86	20.89	20.82	3	22		
		1	37	21.62	20.83	20.83	3	22		
		1	74	21.81	21.87	21.75	2	23		
		36	0	20.86	20.82	20.99	3	22		
		36	19	21.62	20.83	20.83	3	22		
		75	0	20.86	20.89	20.82	3	22		
		1	0	21.77	21.84	21.67	2	23		
		1	37	22.08	22.09	21.87	2	23		
		1	74	21.81	21.87	21.75	2	23		
		36	0	20.86	20.82	20.99	3	22		
20M	QPSK	1	0	23.72	23.69	23.74	0	25		
		1	37	24.32	24.23	24.19	0	25		
		1	74	23.89	23.77	23.88	0	25		
		36	0	23.88	23.52	23.51	1	24		
		36	19	23.87	23.13	23.07	1	24		
		36	38	23.61	23.00	22.98	1	24		
		75	0	23.70	23.00	23.00	1	24		
		1	0	22.91	22.94	22.97	1	24		
		1	37	23.26	23.27	23.03	1	24		
		1	74	23.63	23.68	23.66	1	24		
10M	16QAM	1	0	21.96	21.89	22.07	2	23		
		36	19	22.12	22.01	22.13	2	23		
		36	38	22.38	22.31	22.08	2	23		
		75	0	21.98	21.98	21.99	2	23		
		1	0	21.77	21.84	21.67	2	23		
		1	37	22.08	22.09	21.87	2	23		
		1	74	21.81	21.87	21.75	2	23		
		36	0	20.86	20.82	20.99	3	22		
		36	19	21.62	20.83	20.83	3	22		
		75	0	20.86	20.89	20.82	3	22		
10M	64QAM	1	0	20.86	20.89	20.82	3	22		
		1	37	21.62	20.83	20.83	3	22		
		1	74	21.81	21.87	21.75	2	23		
		36	0	20.86	20.82	20.99	3	22		
		36	19	21.62	20.83	20.83	3	22		
		75	0	20.86	20.89	20.82	3	22		
		1	0	21.77	21.84	21.67	2	23		
		1	37	22.08	22.09	21.87	2	23		
		1	74	21.81	21.87	21.75	2	23		
		36	0	20.86	20.82	20.99	3	22		

LTE Band 41 (2486 ~ 2600MHz)										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	SCPF	Max.	Max. Turn-up	Max. Turn-down
		Channel	Frequency (MHz)	3800	4015	4230	MHz	Turn-up (dB)		
20M	QPSK	1	0	23.73	23.65	23.75	0	25		
		1	0	24.24	24.22		0	25		
		1	99	23.72	23.75	23.64	23.65	23.61	0	25
		50	0	22.78	23.01	22.77	22.88	22.78	1	24
		50	25	22.80	22.98	22.72	22.83	22.68	1	24
		50	50	22.82	22.97	22.72	22.84	22.68	1	24
		100	0	22.82	23.10	22.84	22.89	22.87	1	24
		1	0	22.70	22.88	22.85	22.70	22.70	1	24
		1	50	23.13	23.25	22.90	23.08	23.00	1	24
		1	99	22.80	22.80	22.58	22.72	22.59	1	24
20M	16QAM	1	0	21.65	21.65	21.63	21.64	21.67	2	23
		50	25	21.93	22.13	21.86	21.96	21.88	2	23
		50	50	22.00	22.05	21.78	21.90	21.73	2	23
		100	0	21.56	21.62	21.62	21.57	21.58	2	23
		1	0	21.66	21.63	21.68	21.62	21.58	2	23
		1	50	21.71	21.80	21.67	21.64	21.56	2	23
		1	99	21.59	21.57	21.58	21.61	21.69	2	23
		50	0	20.72	21.02	20.79	20.82	20.83	3	22
		50	25	20.89	21.05	20.81	20.89	20.85	3	22
		100	0	20.88	20.88	20.73	20.84	20.69	3	22
20M	64QAM	1	0	20.87	21.06	20.74	20.88	20.79	3	22
		1	50	21.71	21.80	21.67	21.64	21.56	2	23
		1	99	21.59	21.57	21.58	21.61	21.69	2	23
		50	0	20.72	21.02	20.79	20.82	20.83	3	22
		50	25	20.89	21.05	20.81	20.89	20.85	3	22
		100	0	20.88	20.88	20.73	20.84	20.69	3	22
		100	0	20.87	21.06	20.74	20.88	20.79	3	22
		1	0	21.65	21.62	21.68	21.62	21.58	2	23
		1	37	23.11	23.10	22.89	23.04	22.99	1	24
		1	74	23.70	23.77	23.42	23.64	23.50	1	24
10M	16QAM	1	0	21.80	22.01	21.77	21.81	21.76	2	23
		36	19	21.87	22.06	21.78	21.85	21.79	2	23
		36	38	21.91	21.87	21.68	21.84	21.70	2	23
		75	0	21.80	22.00	21.73	21.89	21.71	2	23
		1	0	21.62	21.64	21.57	21.59	21.42	2	23
		1	37	21.67	21.71	21.70	21.68	21.42	2	23
		1	74	21.44	21.58	21.57	21.55	21.53	2	23
		36	0	20.69	21.01	20.70	20.71	20.78	3	22
		36	19	20.62	20.91	20.60	20.60	20.74	3	22
		75	0	20.70	21.05	20.73	20.77	20.87	3	22
10M	64QAM	1	0	20.70	21.05	20.73	20.74	20.87	3	22
		1	50	21.71	21.80	21.67	21.68	21.78	2	23
		1	99	21.59	21.57	21.58	21.61	21.69	2	23
		50	0	20.72	21.02	20.79	20.82	20.83	3	22
		50	25	20.89	21.05	20.81	20.89	20.85	3	22
		100	0	20.88	20.88	20.73	20.84	20.69	3	22
		100	0	20.87	21.06	20.74	20.88	20.79	3	22
		1	0	21.65	21.62	21.68	21.62	21.58	2	23
		1	37	23.11	23.10	22.89	23.04	22.99	1	24
		1	74	23.70	23.77	23.42	23.64	23.50	1	24
5M	16QAM	1	0	23.73	23.67	23.65	23.70	23.62	0	26
		1	24	24.02	24.21	23.93	24.00	23.88	0	26
		48	23.52	23.61	23.52	23.52	23.52	0	26	
		25	0	22.68	22.98	22.72	22.80	22.77	1	24
		25	12	22.88	23.02	22.66	22.87	22.76	1	24
		50	0	22.88	23.02	22.66	22.87	22.76	1	24
		1	0	22.88	23.00	22.63	22.85	22.80	1	24
		1	0	22.61	22.84	22.65	22.83	22.69	1	24
		1	24	23.01	23.18	22.93	23.03	22.98	1	24
		1	49	22.68	22.76	22.47	22.58	22.46	1	24
5M	64QAM	25	0	21.73	21.88	21.78	21.88	21.76	2	23
		25	12	21.93	22.01	21.73	21.83	21.76	2	23
		25	25	21.88	21.95	21.65	21.83	21.58	2	23
		50	0	21.62	22.03	21.78	21.89	21.78	2	23
		1	0	21.62	21.62	21.57	21.57	21.47	2	23
		1	24	21.70	21.68	21.52	21.56	21.42	2	23
		1	49	21.44	21.35	21.52	21.16	21.59	2	23
		25	0	20.62	20.90	20.74	20.80	20.68	3	22
		25	12	20.73	20.91	20.68	20.73	20.81	3	22
		25	25	20.76	20.91	20.64	20.69	20.65	3	22
5M	QPSK	50	0	20.64	21.04	20.62	20.84	20.77	2	23
		1	0	21.65	21.62	21.68	21.62	21.58	2	23
		1	24	21.64	21.63	21.68	21.63	21.58	2	23
		12	0	22.70	22.94	22.74	22.87	22.66	1	24
		12	13	22.83	23.05	22.79	22.83	22.74	1	24
		12	13	22.88	22.96	22.59	22.79	22.59	1	24
		25	0	22.65	22.92	22.77	22.84	22.65	1	24
		25	12	22.80	22.97	22.72	22.81	22.66	1	24
		1	12	23.07	23.21	22.93	23.07	22.99	1	24
		1	24	22.77	22.73	22.42	22.69	22.54	1	24
5M	16QAM	12	0	21.86	21.97	21.76	21.85	21.76	2	23
		12	6	21.78	22.07	21.67	21.89	21.67	2	23
		12	13	21.88	22.00	21.64	21.89	21.67	2	23
		25	0	21.65	21.62	21.68	21.62	21.58	2	23
		1	0	21.59	21.46	21.53	21.37	21.47	2	23
		1	12	21.65	21.76	21.50	21.63	21.42	2	23
		24	0	21.44	21.58	21.59	21.50	21.59	2	23
		12	0	20.58	20.88	20.69	20.75	20.68	3	22
		12	6	20.85	21.04	20.73	20.87	20.74	3	22
		24	0	20.79	21.03	20.73	20.75	20.84	3	22
5M	64QAM	25	0	20.84	21.03	20.73	20.75	20.84	3	22
		12	0	20.84	21.03	20.73	20.75	20.84	3	22
		12	6	20.85	21.04	20.73	20.87	20.74	3	22
		24	0	20.79	21.03	20.73	20.75	20.84	3	22
		25	0	20.84	21.03	20.73	20.75	20.84	3	22
		12	0	20.84	21.03	20.73	20.75	20.84	3	22
		12	6	20.85	21.04	20.73	20.87	20.74	3	22
		24	0	20.79	21.03	20.73	20.75	20.84	3	22
		25	0	20.84	21.03	20.73	20.75	20.84	3	22
		12	0	20.84	21.03	20.73	20.75	20.84	3	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	810	
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)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	24.42	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	810	
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)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	24.42	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	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	810	
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)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	21.80	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	RB Size	RB Offset	Low	Mid	High	Max. Time-up (dBm)		
		Channel			Frequency (MHz)				
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	23.52	23.49	23.57	24.5		
	16QAM	50	50	23.44	23.46	23.41	24.5		
		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	23.45	23.37	24.5		
40QAM	16QAM	50	0	22.52	22.51	22.54	23.5		
		50	25	22.64	22.56	22.53	23.5		
		50	50	22.49	22.66	22.37	23.5		
		100	0	22.51	22.54	22.47	23.5		
		1	0	22.45	22.41	22.38	23.5		
	64QAM	1	50	22.72	22.76	22.82	23.5		
		1	99	22.37	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		
		50	50	21.43	21.59	21.37	22.5		
BW	Modulation	Channel	1880	1890	1892.5	1912.5	Max. Time-up (dBm)		
		Frequency (MHz)	1887.5	1890	1892.5	1912.5	Max. Time-up (dBm)		
15M	QPSK	1	0	24.13	24.03	24.07	25.5		
		1	37	24.36	24.29	24.41	25.5		
		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		
		75	0	23.43	23.41	23.35	24.5		
		1	0	23.49	23.32	23.35	24.5		
		1	37	23.85	23.65	23.57	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		
		36	39	22.39	22.58	22.34	23.5		
		75	0	22.43	22.39	22.45	23.5		
		16QAM	1	0	22.32	22.37	22.35	23.5	
	1		37	22.69	22.66	22.60	23.5		
	1		74	22.37	22.31	22.35	23.5		
	36		0	21.42	21.44	21.42	22.5		
	36		19	21.49	21.52	21.54	22.5		
	36		39	21.41	21.47	21.29	22.5		
	BW	Modulation	Channel	1880	1890	1910	1915	Max. Time-up (dBm)	
Frequency (MHz)			1885	1890	1895	1910	Max. Time-up (dBm)		
10M	QPSK	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		
		25	25	23.32	23.53	23.29	24.5		
		50	0	23.32	23.39	23.34	24.5		
		1	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		
		50	0	22.43	22.53	22.35	23.5		
		16QAM	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	21.43	21.43	21.50	22.5		
	25		25	21.36	21.47	21.31	22.5		
	BW	Modulation	Channel	1882.5	1890	1917.5	1918	Max. Time-up (dBm)	
Frequency (MHz)			1885	1890	1897.5	1917.5	Max. Time-up (dBm)		
5M	QPSK	1	0	24.17	24.01	23.99	25.5		
		1	12	24.37	24.31	24.42	25.5		
		1	24	24.09	23.97	24.03	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		
		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		
		12	13	22.41	22.57	22.33	23.5		
		25	0	22.38	22.47	22.38	23.5		
		16QAM	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			

LTE Band 7								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Time-up (dBm)	
		Channel		2085	2100	2115		
20M	QPSK	Frequency (MHz)		2085	2100	2115		
		1	0	22.85	22.87	22.89	22.60	
		1	50	23.24	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	22.75	22.51	22.64	24	
		100	0	22.78	22.41	22.74	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	21.65	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	21.09	20.97	22	
		50	50	20.98	20.96	20.78	22	
		100	0	21.00	20.95	20.84	22	
64QAM		Channel		20825	21100	21375	Max. Time-up (dBm)	
		Frequency (MHz)		20825	21100	21375		
		1	0	22.79	22.42	22.59	24	
	1	37	23.10	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	22.39	22.54	24		
15M	16QAM	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	21.96	21.61	23	
		1	74	21.76	21.76	21.35	23	
		36	0	20.72	20.75	20.86	22	
64QAM	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	Channel		20800	21100	21400	Max. Time-up (dBm)	
		Frequency (MHz)		20800	21100	21400		
		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	22.59	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	
		1	0	22.66	22.36	22.48	24	
	16QAM	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	21.96	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	21.30	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		Channel		20775	21190	21425	Max. Time-up (dBm)
			Frequency (MHz)		20775	21190	21425	
			1	0	22.74	22.56	22.58	24
		1	12	23.20	22.82	22.87	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	
	16QAM	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	21.80	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		23229		
10M	QPSK	Frequency (MHz)		762	24.45	25.5
		1	1	24	24.45	25.5
		1	49	24.40	24.40	25.5
		25	0	23.51	23.51	24.5
		25	12	23.63	23.63	24.5
		25	25	23.59	23.59	24.5
		50	0	23.53	23.53	24.5
		1	0	23.46	23.46	24.5
		1	24	23.74	23.74	24.5
		1	49	23.56	23.56	24.5
	16QAM	25	0	22.51	22.51	23.5
		25	12	22.52	22.52	23.5
		25	25	22.49	22.49	23.5
		50	0	22.55	22.55	23.5
		1	0	22.58	22.58	23.5
		1	24	22.78	22.78	23.5
		1	49	22.59	22.59	23.5
		25	0	21.49	21.49	22.5
		25	12	21.48	21.48	22.5
		25	25	21.47	21.47	22.5
		50	0	21.51	21.51	22.5
5M	QPSK	Channel		23205	23239	23265
		Frequency (MHz)		779.5	782	784.5
		1	0	24.35	24.30	24.42
		1	12	24.53	24.42	24.48
		1	24	24.37	24.35	24.26
		12	0	23.37	23.40	23.41
		12	6	23.50	23.51	23.49
		12	13	23.54	23.45	23.50
		25	0	23.48	23.51	23.42
		1	0	23.36	23.35	23.44
	16QAM	1	12	23.73	23.73	23.70
		1	24	23.45	23.42	23.44
		12	0	22.41	22.49	22.45
		12	6	22.45	22.44	22.39
		12	13	22.38	22.37	22.41
		25	0	22.49	22.40	22.53
		1	0	22.45	22.54	22.43
		1	12	22.73	22.67	22.72
		1	24	22.45	22.46	22.50
		12	0	21.40	21.38	21.44
	64QAM	12	6	21.39	21.44	21.38
		12	13	21.39	21.44	21.36
		25	0	21.39	21.47	21.47

LTE Band 26							
BW	Modulation	RB Size	RB Offset	Low	Mid	High	
		Channel		26765	26865	26965	
15M	QPSK	Frequency (MHz)		831.5	831.5	841.5	
		1	0	24.42	24.36	24.49	
		1	37	24.68	24.66	24.64	
		1	74	24.43	24.41	24.36	
		36	0	23.52	23.54	23.55	
		36	19	23.61	23.58	23.57	
		36	39	23.49	23.57	23.54	
		75	0	23.56	23.54	23.55	
		1	0	23.59	23.65	23.56	
		1	37	23.82	23.78	23.87	
		1	74	23.67	23.70	23.66	
	16QAM	36	0	22.55	22.64	22.54	
		36	19	22.60	22.62	22.56	
		36	39	22.52	22.65	22.57	
		75	0	22.54	22.67	22.58	
		64QAM	1	0	22.73	22.83	22.84
			1	37	22.90	22.81	22.86
			1	74	22.64	22.56	22.67
			36	0	21.53	21.61	21.56
			36	19	21.63	21.62	21.58
			36	39	21.53	21.58	21.52
			75	0	21.51	21.61	21.53
10M	QPSK		Channel		26749	26865	26990
			Frequency (MHz)		819	831.5	844
			1	0	24.39	24.31	24.35
			1	24	24.57	24.53	24.55
		1	49	24.36	24.28	24.27	
		25	0	23.50	23.57	23.50	
		25	12	23.43	23.53	23.53	
		25	25	23.43	23.45	23.40	
		50	0	23.37	23.49	23.46	
		16QAM	1	0	23.53	23.59	23.51
			1	24	23.75	23.75	23.83
	1		49	23.57	23.69	23.56	
	25		0	22.40	22.56	22.43	
	25		12	22.59	22.59	22.55	
	25		25	22.48	22.52	22.44	
	50		0	22.50	22.50	22.51	
	64QAM		1	0	22.58	22.60	22.60
			1	24	22.88	22.76	22.76
			1	49	22.50	22.50	22.53
		25	0	21.50	21.58	21.48	
		25	12	21.53	21.58	21.47	
25		25	21.47	21.51	21.42		
50		0	21.45	21.53	21.38		
5M		QPSK	Channel		26719	26865	27019
			Frequency (MHz)		816.5	831.5	846.5
			1	0	24.37	24.30	24.47
	1		12	24.58	24.56	24.60	
	1		24	24.40	24.37	24.25	
	12		0	23.48	23.56	23.45	
	12		6	23.42	23.58	23.42	
	12		13	23.48	23.47	23.41	
	25		0	23.36	23.41	23.47	
	16QAM		1	0	23.47	23.51	23.53
			1	12	23.75	23.73	23.82
		1	24	23.57	23.56	23.57	
		12	0	22.48	22.55	22.40	
		12	6	22.52	22.55	22.46	
		12	13	22.49	22.56	22.53	
		25	0	22.50	22.59	22.55	
		64QAM	1	0	22.69	22.54	22.56
			1	12	22.88	22.69	22.73
			1	24	22.62	22.43	22.55
	12		0	21.38	21.54	21.53	
	12		6	21.46	21.58	21.46	
12	13		21.40	21.46	21.50		
25	0		21.48	21.52	21.50		
3M	QPSK		Channel		26695	26865	27025
			Frequency (MHz)		815.5	831.5	847.5
			1	0	24.35	24.31	24.45
		1	7	24.59	24.54	24.53	
		1	14	24.35	24.30	24.28	
		8	0	23.44	23.50	23.54	
		8	3	23.41	23.57	23.49	
		8	7	23.40	23.53	23.45	
		15	0	23.45	23.52	23.58	
		16QAM	1	0	23.54	23.55	23.55
			1	7	23.73	23.65	23.86
	1		14	23.52	23.58	23.57	
	8		0	22.53	22.63	22.59	
	8		3	22.48	22.50	22.46	
	8		7	22.41	22.62	22.56	
	15		0	22.39	22.65	22.48	
	64QAM		1	0	22.70	22.50	22.62
			1	7	22.88	22.74	22.80
			1	14	22.63	22.54	22.56
		8	0	21.45	21.49	21.48	
		8	3	21.55	21.52	21.45	
8		7	21.39	21.50	21.40		
15		0	21.41	21.54	21.51		
1.4M		QPSK	Channel		26697	26865	27033
			Frequency (MHz)		814.7	831.5	848.3
			1	0	24.22	24.22	24.41
	1		2	24.62	24.59	24.52	
	1		5	24.38	24.29	24.35	
	3		0	24.29	24.32	24.24	
	3		1	24.28	24.26	24.30	
	3		3	24.18	24.25	24.22	
	6		0	23.41	23.49	23.45	
	1		0	23.55	23.52	23.50	
	16QAM		1	2	23.67	23.63	23.82
		1	5	23.56	23.63	23.57	
		3	0	23.29	23.38	23.27	
		3	1	23.30	23.33	23.31	
		3	3	23.21	23.39	23.28	
		6	0	22.51	22.62	22.46	
		64QAM	1	0	22.63	22.66	22.53
			1	2	22.83	22.66	22.74
			1	5	22.57	22.42	22.60
			3	0	22.23	22.30	22.34
	3		1	22.28	22.28	22.21	
3	3		22.27	22.25	22.19		
6	0		21.37	21.29	21.44		

LTE Band 38										
BW	Modulation	RB Size	RB Offset	Channel			Low	Mid	High	Max. Turn-up (dBm)
				Frequency (MHz)	2585	2595				
20M	QPSK	1	0	23.87	23.95	23.85	25			
		1	50	24.25	24.29	24.22	25			
		1	99	23.95	23.92	23.95	25			
		50	0	23.02	23.13	23.15	24			
		50	25	23.10	23.18	23.18	24			
	16QAM	50	50	23.07	23.11	23.08	24			
		100	0	23.07	23.12	23.10	24			
		1	0	22.95	23.02	22.71	24			
		1	50	23.30	23.33	23.10	24			
		1	99	22.88	22.78	22.73	24			
40M	16QAM	50	0	22.03	22.01	22.18	23			
		50	25	22.13	22.11	22.14	23			
		50	50	22.15	22.06	22.11	23			
		100	0	22.05	22.02	22.12	23			
		1	0	21.78	21.85	21.61	23			
	64QAM	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			
		50	50	20.97	20.94	20.95	22			
60M	64QAM	100	0	20.95	21.01	20.98	22			
		Channel	3782.5	3800	3817.5	Max. Turn-up (dBm)				
		Frequency (MHz)	2577.5	2595	2615					
		15M	QPSK	1	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	23.07	23.13	23.10	24		
	16QAM		36	39	23.01	23.00	22.98	24		
75			0	22.97	23.01	23.00	24			
1			0	22.91	22.94	22.97	24			
1			37	23.26	23.27	23.03	24			
1			74	22.82	22.83	22.86	24			
30M	16QAM	36	0	21.96	21.89	22.07	23			
		36	19	22.12	22.01	22.13	23			
		36	39	22.02	22.01	22.08	23			
		75	0	21.98	21.98	21.98	23			
		1	0	21.77	21.84	21.57	23			
	64QAM	1	37	21.88	22.20	21.85	23			
		1	74	21.51	21.57	21.75	23			
		36	0	20.86	20.82	20.89	22			
		36	19	21.02	20.83	20.93	22			
		36	39	20.82	20.88	20.87	22			
45M	64QAM	75	0	20.86	20.89	20.92	22			
		Channel	3775	3800	3825	Max. Turn-up (dBm)				
		Frequency (MHz)	2572.5	2595	2617.5					
		10M	QPSK	1	0	23.72	23.90	23.81	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		
	25			12	22.99	23.13	23.09	24		
	16QAM		25	25	23.03	23.02	23.01	24		
50			0	22.98	23.00	23.08	24			
1			0	22.92	23.00	22.68	24			
1			24	23.28	23.26	22.99	24			
1			49	22.74	22.68	22.66	24			
30M	16QAM	25	0	21.89	21.97	22.14	23			
		25	12	21.98	21.98	22.10	23			
		25	25	22.02	21.97	22.01	23			
		50	0	22.05	21.98	21.97	23			
		1	0	21.72	21.90	21.53	23			
	64QAM	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	20.88	21.03	22			
		25	25	20.94	20.84	20.86	22			
45M	64QAM	50	0	20.94	20.93	20.94	22			
		Channel	3777.5	3800	3822.5	Max. Turn-up (dBm)				
		Frequency (MHz)	2572.5	2595	2617.5					
		15M	QPSK	1	0	23.94	23.94	23.94	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		
	16QAM		12	13	23.05	23.01	23.01	24		
25			0	23.09	22.97	23.00	24			
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			
30M	16QAM	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			
		25	0	21.98	21.98	21.98	23			
		1	0	21.68	21.90	21.53	23			
	64QAM	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	20.97	21.01	22			
		12	13	20.94	20.93	20.81	22			
25	0	20.89	20.87	20.90	22					

LTE Band 41 (2496 ~ 2690MHz)											
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	Max. Turn-up (dBm)		
		Channel Frequency (MHz)		39750	40150	40620	41085	41450			
20M	QPSK	1	0	23.73	23.95	23.75	23.81	23.74	25		
		1	50	24.04	24.22	24.00	24.06	23.97	25		
		1	99	23.72	23.75	23.64	23.65	23.61	25		
		50	0	22.76	23.01	22.77	22.88	22.76	24		
		50	25	22.90	23.08	22.72	22.83	22.74	24		
	16QAM	50	50	22.89	22.97	22.72	22.84	22.68	24		
		100	0	22.92	23.10	22.84	22.99	22.87	24		
		1	0	22.70	22.96	22.78	22.85	22.76	24		
		1	50	23.13	23.25	22.99	23.08	23.00	24		
		1	99	22.80	22.80	22.56	22.72	22.59	24		
40QAM	16QAM	50	0	21.85	22.06	21.83	21.94	21.87	23		
		50	25	21.93	22.13	21.86	21.96	21.88	23		
		50	50	22.00	22.05	21.78	21.90	21.73	23		
		100	0	21.85	22.10	21.82	21.97	21.83	23		
	64QAM	1	0	21.66	21.53	21.68	21.42	21.58	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	20.79	20.82	20.83	22		
		50	25	20.89	21.05	20.81	20.85	20.85	22		
60QAM	16QAM	50	50	20.88	20.88	20.73	20.84	20.69	22		
		100	0	20.87	21.06	20.74	20.88	20.79	22		
	64QAM	1	0	20.75	20.73	20.73	20.73	20.73	22		
		1	37	23.99	24.13	23.89	23.91	23.82	25		
		1	74	23.65	23.68	23.56	23.64	23.58	25		
		36	0	22.67	22.95	22.71	22.81	22.76	24		
		36	19	22.78	22.89	22.77	22.98	22.74	24		
		36	39	22.88	22.88	22.61	22.78	22.65	24		
		75	0	22.79	23.08	22.77	22.90	22.82	24		
	15M	16QAM	1	0	22.63	22.92	22.65	22.75	22.70	24	
			1	37	23.11	23.10	22.89	22.94	22.99	24	
			1	74	22.70	22.77	22.68	22.68	22.68	24	
		60QAM	36	0	21.80	22.01	21.77	21.91	21.76	23	
			36	19	21.87	22.06	21.78	21.85	21.79	23	
36			39	21.91	21.97	21.68	21.84	21.70	23		
75			0	21.80	22.05	21.75	21.71	21.71	23		
80QAM	16QAM	1	0	21.62	21.44	21.57	21.29	21.42	23		
		1	37	21.67	21.71	21.53	21.56	21.42	23		
		1	74	21.44	21.35	21.57	21.25	21.53	23		
	64QAM	36	0	20.69	21.01	20.70	20.71	20.78	22		
		36	30	20.82	20.91	20.80	20.87	20.77	22		
		36	39	20.86	20.96	20.66	20.77	20.57	22		
		75	0	20.76	21.05	20.73	20.74	20.67	22		
		BW	Modulation	Channel		39750	40150	40620	41085	41450	Max. Turn-up (dBm)
				Frequency (MHz)		39750	40150	40620	41085	41450	
QPSK	1		0	23.71	23.87	23.63	23.70	23.62	25		
	1		24	24.02	24.21	23.96	24.00	23.88	25		
	1		49	23.62	23.62	23.59	23.52	23.57	25		
	25		0	22.66	22.98	22.74	22.80	22.77	24		
	25		12	22.88	23.02	22.66	22.67	22.76	24		
	25		28	22.89	22.85	22.62	22.76	22.63	24		
	50		0	22.88	23.00	22.83	22.85	22.80	24		
	10M		16QAM	1	0	22.61	22.84	22.65	22.83	22.69	24
		1		24	23.01	23.12	22.89	23.03	22.88	24	
		25		46	22.66	22.74	22.47	22.58	22.49	24	
25		0		21.73	21.96	21.76	21.86	21.76	23		
60QAM		25	12	21.83	21.99	21.72	21.89	21.80	23		
		25	25	21.88	21.95	21.66	21.83	21.58	23		
		50	0	21.62	22.03	21.78	21.69	21.70	23		
		50	1	21.58	21.44	21.55	21.27	21.45	23		
20M	16QAM	1	24	21.70	21.86	21.52	21.56	21.42	23		
		1	49	21.44	21.35	21.52	21.16	21.59	23		
		25	0	20.62	20.90	20.73	20.80	20.68	22		
		25	12	20.77	20.84	20.70	20.85	20.72	22		
	64QAM	25	25	20.76	20.91	20.64	20.69	20.65	22		
		50	0	20.84	21.04	20.62	20.84	20.77	22		
		BW	Modulation	Channel		39750	40148	40620	41093	41565	Max. Turn-up (dBm)
				Frequency (MHz)		39750	40148	40620	41093	41565	
QPSK	1		0	23.10	23.10	23.09	23.09	23.08	25		
	1		12	23.93	24.17	23.89	24.01	23.88	25		
	1		24	23.64	23.63	23.55	23.53	23.48	25		
	12		0	22.70	22.94	22.74	22.87	22.66	24		
	12		6	22.88	22.97	22.73	22.83	22.74	24		
	12		13	22.88	22.98	22.69	22.79	22.59	24		
	25		0	22.85	23.02	22.77	22.84	22.80	24		
	5M		16QAM	1	0	22.60	22.83	22.68	22.81	22.66	24
		1		12	23.07	23.21	22.93	22.97	22.99	24	
		1		24	22.77	22.84	22.69	22.78	22.74	24	
60QAM		12	0	21.84	21.99	21.82	21.85	21.76	23		
		12	6	21.78	22.07	21.75	21.89	21.75	23		
		12	13	21.98	22.03	21.64	21.89	21.67	23		
80QAM	16QAM	25	0	21.62	22.02	21.77	21.69	21.62	23		
		25	1	21.54	21.40	21.53	21.37	21.47	23		
		1	12	21.65	21.76	21.50	21.63	21.42	23		
		1	24	21.44	21.34	21.53	21.20	21.50	23		
	64QAM	12	0	20.58	20.88	20.69	20.75	20.68	22		
		12	6	20.65	21.04	20.78	20.85	20.79	22		
		12	13	20.73	20.83	20.71	20.79	20.61	22		
		25	0	20.84	21.03	20.73	20.75	20.64	22		

LTE_DSI-2
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LTE Band 2										
BW	Modulation	RB Size	RB Offset	Low	Mid	High				
		Channel		1970	1990	1910				
		Frequency (MHz)	1960	1980	1900	Max. Time-up (dBm)				
20M	QPSK	1	0	24.18	24.14	24.14	25.5			
		1	50	24.43	24.42	24.52	25.5			
		1	99	24.17	24.12	24.15	25.5			
		50	0	23.45	23.47	23.55	24.5			
		50	25	23.52	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	23.66	24.5			
		1	99	23.44	23.45	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	50	50	22.49	22.86	22.37	23.5				
	100	0	22.51	22.54	22.47	23.5				
	1	0	22.45	22.41	22.38	23.5				
	1	50	22.72	22.76	22.62	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				
	50	50	21.43	21.59	21.37	22.5				
	100	0	21.45	21.55	21.44	22.5				
	BW	Modulation	Channel	1967.5	1990	1910	Max. Time-up (dBm)			
			Frequency (MHz)	1957.5	1980	1902.5				
			1	0	24.13	24.03	24.07	25.5		
15M	QPSK	1	37	24.37	24.29	24.41	25.5			
		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			
		75	0	23.43	23.41	23.35	24.5			
		1	37	23.85	23.65	23.57	24.5			
	16QAM	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			
		36	39	22.39	22.58	22.34	23.5			
		75	0	22.43	22.39	22.45	23.5			
		1	0	22.52	22.37	22.35	23.5			
64QAM	1	37	22.99	22.66	22.80	23.5				
	1	74	22.37	22.31	22.39	23.5				
	36	0	21.42	21.44	21.42	22.5				
	36	19	21.49	21.54	21.54	22.5				
	36	39	21.41	21.47	21.29	22.5				
	75	0	21.36	21.52	21.39	22.5				
BW	Modulation	Channel	1965.5	1990	1910	Max. Time-up (dBm)				
		Frequency (MHz)	1955	1980	1905					
		1	0	24.04	24.02	23.99	25.5			
10M	QPSK	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	23.44	23.34	23.46	24.5			
		25	25	23.32	23.53	23.29	24.5			
		50	0	23.32	23.39	23.31	24.5			
	16QAM	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	22.39	22.58	22.33	23.5			
		50	0	22.43	22.53	22.35	23.5			
64QAM	1	0	22.53	22.34	22.27	23.5				
	1	24	22.57	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				
	25	25	21.36	21.47	21.31	22.5				
	50	0	21.37	21.45	21.43	22.5				
	BW	Modulation	Channel	1962.5	1990	1915	Max. Time-up (dBm)			
			Frequency (MHz)	1952.5	1980	1907.5				
			1	0	24.17	24.01	23.99	25.5		
	5M	QPSK	1	12	24.37	24.31	24.42	25.5		
			1	24	24.09	23.97	24.03	25.5		
12			0	23.43	23.35	23.46	24.5			
12			6	23.44	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			
16QAM		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			
		12	13	22.41	22.57	22.33	23.5			
64QAM	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				
	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				
	BW	Modulation	Channel	1961.5	1990	1916	Max. Time-up (dBm)			
			Frequency (MHz)	1951.5	1980	1908.5				
			1	0	24.04	24.05	24.10	25.5		
	3M	QPSK	1	7	24.35	24.29	24.43	25.5		
1			14	24.09	24.04	24.02	25.5			
8			0	23.43	23.42	23.58	24.5			
8			3	23.48	23.46	23.51	24.5			
8			7	23.40	23.51	23.35	24.5			
15			0	23.46	23.50	23.41	24.5			
16QAM		1	0	23.41	23.33	23.32	24.5			
		1	7	23.73	23.71	23.55	24.5			
		1	14	23.37	23.38	23.24	24.5			
		8	0	22.51	22.39	22.52	23.5			
		8	3	22.62	22.55	22.48	23.5			
		8	7	22.34	22.64	22.25	23.5			
64QAM	15	0	22.42	22.45	22.23	23.5				
	1	0	22.42	22.36	22.29	23.5				
	1	7	22.68	22.72	22.57	23.5				
	1	14	22.31	22.24	22.43	23.5				
	8	0	21.40	21.48	21.43	22.5				
	8	3	21.42	21.50	21.49	22.5				
	8	7	21.41	21.52	21.23	22.5				
	15	0	21.42	21.42	21.41	22.5				
	BW	Modulation	Channel	1960.7	1990	1916	Max. Time-up (dBm)			
			Frequency (MHz)	1950.7	1980	1908.3				
			1	0	24.07	24.04	24.10	25.5		
	1.4M	QPSK	1	2	24.36	24.40	24.46	25.5		
1			5	24.04	23.98	24.10	25.5			
3			0	24.24	24.23	24.35	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			
16QAM		1	0	23.51	23.32	23.29	24.5			
		1	2	23.86	23.66	23.80	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			
64QAM	6	0	23.1	23.1	23.1	23.5				
	1	0	22.45	22.35	22.27	23.5				
	1	2	22.70	22.63	22.53	23.5				
	1	5	22.36	22.22	22.31	23.5				
	3	0	22.21	22.21	22.29	23.5				
	3	1	22.31	22.21	22.29	23.5				

LTE Band 7							
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Time-up (dBm)
		Channel		2916	2935	2965	
20M	QPSK	Frequency (MHz)		22.57	22.60	24	
		1	0	22.85	22.87	24	
		1	50	23.24	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	21.96	21.42	21.71	23
		100	0	21.86	21.50	21.75	23
	64QAM	1	0	22.04	21.93	21.34	23
		1	50	22.26	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
15M	QPSK	Channel		2925	2110	2175	Max. Time-up (dBm)
		Frequency (MHz)		22.42	22.59	24	
		1	0	22.79	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
	16QAM	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	21.65	21.50	21.70	23
	64QAM	1	0	21.96	21.84	21.24	23
		1	37	22.13	21.95	21.61	23
		1	74	21.76	21.78	21.35	23
		36	0	20.72	20.75	20.66	22
		36	19	20.94	21.06	20.85	22
		36	39	20.94	20.95	20.73	22
		75	0	20.88	20.89	20.70	22
10M	QPSK	Channel		2936	2160	2165	Max. Time-up (dBm)
		Frequency (MHz)		22.55	22.55	22.53	
		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	22.59	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
	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	22.82	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	21.30	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	20.95	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	Channel		2975	2110	2125	Max. Time-up (dBm)
		Frequency (MHz)		2582.5	2635	2667.5	
		1	0	22.74	22.55	22.58	24
		1	12	23.20	22.82	22.87	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
	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	21.50	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	20.90	20.83	22
		12	13	20.84	20.91	20.65	22
		25	0	20.82	20.82	20.72	22

LTE Band 13							
BW	Modulation	RB Size	RB Offset	Mid	Max. Time-up (dBm)		
		Channel		2329			
10M	QPSK	Frequency (MHz)		762			
		1	0	24.45			
		1	24	24.54			
		1	49	24.40			
		25	0	23.51			
		25	12	23.63			
		25	25	23.58			
		50	0	23.53			
		1	0	23.48			
	16QAM	1	24	23.74			
		1	49	23.56			
		25	0	22.51			
		25	12	22.52			
		25	25	22.49			
		50	0	22.55			
	64QAM	1	0	22.58			
		1	24	22.78			
		1	49	22.59			
		25	0	21.49			
		25	12	21.48			
		25	25	21.47			
		50	0	21.51			
5M	QPSK	Channel		23205	23230	23255	Max. Time-up (dBm)
		Frequency (MHz)		779.5	782	784.5	
		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	24.26	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
	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	22.48	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	21.36	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. Time-up (dBm)	
		Channel		26765	26865	26965		
15M	QPSK	Frequency (MHz)		821.5	831.5	841.5		
		1	0	24.42	24.36	24.49	25.5	
		1	37	24.66	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	
	16QAM	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	22.63	22.64	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	21.56	22.5	
		36	19	21.61	21.62	21.56	22.5	
		36	39	21.53	21.58	21.52	22.5	
	10M	QPSK	75	0	21.51	21.61	21.53	22.5
			Channel		26740	26865	26990	Max. Time-up (dBm)
			Frequency (MHz)		819	831.5	844	
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	
16QAM		50	0	23.37	23.49	23.46	24.5	
		1	0	23.53	23.50	23.51	24.5	
		1	24	23.73	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	
64QAM		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	22.76	22.76	23.5		
	1	49	22.50	22.50	22.53	23.5		
	25	0	21.50	21.58	21.48	22.5		
5M	QPSK	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	
		Channel		26715	26865	27015	Max. Time-up (dBm)	
		Frequency (MHz)		816.5	831.5	846.5		
		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	
	16QAM	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	24.5	
		1	12	23.75	23.73	23.82	24.5	
		1	24	23.57	23.56	23.57	24.5	
	64QAM	12	0	22.48	22.55	22.40	23.5	
		12	6	22.52	22.56	22.46	23.5	
		12	13	22.49	22.56	22.53	23.5	
25		0	22.50	22.59	22.55	23.5		
1		0	22.69	22.54	22.56	23.5		
1		12	22.68	22.69	22.75	23.5		
BW	QPSK	1	24	22.62	22.43	22.55	23.5	
		12	0	21.38	21.54	21.53	22.5	
		12	6	21.46	21.58	21.46	22.5	
		12	13	21.40	21.46	21.50	22.5	
		25	0	21.48	21.52	21.50	22.5	
		Channel		26695	26865	27035	Max. Time-up (dBm)	
		Frequency (MHz)		815.5	831.5	847.5		
		1	0	24.35	24.31	24.48	25.5	
		1	7	24.59	24.54	24.53	25.5	
	16QAM	1	14	24.35	24.30	24.28	25.5	
		8	0	23.44	23.50	23.54	24.5	
		8	3	23.41	23.57	23.49	24.5	
		8	7	23.40	23.53	23.45	24.5	
		15	0	23.45	23.52	23.58	24.5	
		64QAM	1	0	23.54	23.55	23.55	24.5
	1		7	23.73	23.65	23.86	24.5	
	1		14	23.52	23.58	23.57	24.5	
	8		0	22.53	22.60	22.50	23.5	
8	3		22.48	22.50	22.47	23.5		
8	7		22.41	22.62	22.56	23.5		
1.4M	QPSK	15	0	22.39	22.65	22.48	23.5	
		1	0	22.70	22.50	22.62	23.5	
		1	7	22.88	22.74	22.80	23.5	
		1	14	22.63	22.54	22.56	23.5	
		8	0	21.45	21.49	21.40	22.5	
		8	3	21.55	21.52	21.45	22.5	
		8	7	21.39	21.50	21.40	22.5	
		15	0	21.41	21.54	21.51	22.5	
		16QAM	Channel		26697	26865	27033	Max. Time-up (dBm)
	Frequency (MHz)		814.7	831.5	848.3			
	1		0	24.22	24.22	24.24	25.5	
	1		2	24.62	24.59	24.52	25.5	
	1		5	24.38	24.29	24.35	25.5	
	3		0	24.29	24.32	24.24	25.5	
	64QAM	3	1	24.28	24.26	24.30	25.5	
		3	3	24.18	24.25	24.22	25.5	
		6	0	23.41	23.49	23.45	24.5	
		6	0	23.55	23.52	23.50	24.5	
1		2	23.67	23.63	23.82	24.5		
1		5	23.56	23.63	23.57	24.5		
16QAM	3	0	23.29	23.38	23.27	24.5		
	3	1	23.30	23.33	23.31	24.5		
	3	3	23.21	23.39	23.29	24.5		
	6	0	22.51	22.62	22.46	23.5		
	1	0	22.63	22.56	22.53	23.5		
	1	2	22.83	22.66	22.74	23.5		
64QAM	1	5	22.57	22.42	22.60	23.5		
	3	0	22.23	22.30	22.34	23.5		
	3	1	21.36	22.28	21.38	22.5		
	3	3	22.27	22.25	22.19	23.5		
	6	0	21.37	21.59	21.44	22.5		

LTE Band 38									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Turn-up (dBm)		
		Channel	Frequency (MHz)	3860	3960	3810			
20M	QPSK	1	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	23.15	23.15	24		
		50	50	23.07	23.11	23.08	24		
		100	0	23.07	23.12	23.10	24		
		1	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		
	16QAM	50	0	22.03	22.01	21.98	23		
		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		
		1	0	21.78	21.95	21.81	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		
		50	50	20.97	20.94	20.95	22		
15M	QPSK	1	0	20.95	21.01	20.98	22		
		1	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	23.12	23.07	24		
		36	39	23.01	23.00	22.98	24		
		75	0	22.97	23.01	23.00	24		
		1	0	22.91	22.94	22.97	24		
		1	37	23.26	23.27	23.03	24		
	16QAM	1	74	22.62	22.63	22.65	24		
		36	0	21.86	21.86	22.14	23		
		36	19	22.12	22.01	22.13	23		
		36	39	22.02	22.01	22.08	23		
		75	0	21.98	21.98	21.99	23		
		1	0	21.77	21.84	21.57	23		
		1	37	21.86	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		
		36	39	20.82	20.86	20.87	22		
10M	QPSK	1	0	20.86	20.89	20.92	22		
		1	0	23.72	23.90	23.81	25		
		1	24	24.17	24.26	24.14	25		
		1	49	23.91	23.83	23.87	25		
		25	0	22.80	22.99	23.10	24		
		25	12	22.99	23.13	23.01	24		
		25	25	23.03	23.02	23.01	24		
		50	0	22.98	23.00	23.08	24		
		1	0	22.92	23.00	22.68	24		
		1	24	23.28	23.26	22.99	24		
	16QAM	1	49	22.74	22.68	22.66	24		
		25	0	21.86	21.97	22.14	23		
		25	12	21.98	21.98	22.10	23		
		25	25	22.02	21.97	22.01	23		
		50	0	22.06	21.89	21.97	23		
		1	0	21.72	21.90	21.53	23		
		1	24	21.90	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		
		25	25	20.94	20.84	20.86	22		
5M	QPSK	1	0	20.94	20.93	20.84	22		
		1	0	23.72	23.90	23.81	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		
		25	0	23.08	22.97	23.00	24		
		1	0	22.83	22.93	22.66	24		
		1	12	23.28	23.28	22.97	24		
	16QAM	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		
		25	0	21.98	21.96	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		
		12	13	20.94	20.93	20.81	22		
		25	0	20.89	20.87	20.90	22		

LTE Band 41 (2486 - 2600MHz)										
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	Max. Turn-up (dBm)	
		Channel	Frequency (MHz)	2486	2486.5	2493	2493.5	2498	2498.5	2505
QPSK		1	0	23.73	23.75	23.75	23.75	23.75	23.75	23.75
		1	50	24.04	24.22	24.00	24.06	23.97	23.97	
		1	99	23.72	23.75	23.64	23.65	23.61	25	
		50	0	22.76	23.01	22.77	22.83	22.78	24	
		50	25	22.90	23.08	22.81	22.83	22.84	24	
		50	50	22.89	22.87	22.72	22.84	22.68	24	
		100	0	22.92	23.10	22.84	22.99	22.87	24	
		1	0	22.70	22.96	22.78	22.85	22.76	24	
		1	50	23.13	23.25	22.99	23.08	23.00	24	
		1	99	22.80	22.80	22.56	22.72	22.59	24	
16QAM		50	0	21.85	22.03	21.77	21.84	21.67	23	
		50	25	21.93	22.13	21.86	21.96	21.88	23	
		50	50	22.00	22.05	21.78	21.90	21.73	23	
		100	0	21.95	22.10	21.82	21.97	21.83	23	
		1	0	21.66	21.53	21.68	21.42	21.56	23	
		1	50	21.71	21.80	21.57	21.64	21.66	24	
		1	99	21.59	21.37	21.58	21.28	21.63	23	
		50	0	20.72	21.02	20.79	20.82	20.83	22	
		50	25	20.89	21.05	20.81	20.89	20.85	22	
		50	50	20.88	20.98	20.73	20.84	20.69	22	
64QAM		100	0	20.87	21.05	20.74	20.88	20.79	22	
		1	0	23.63	23.82	23.68	23.80	23.63	25	
		1	37	23.99	24.13	23.89	23.91	23.82	25	
		1	74	23.65	23.68	23.56	23.64	23.58	25	
		36	0	22.67	22.95	22.71	22.81	22.76	24	
		36	19	22.78	22.98	22.77	22.94	22.74	24	
		36	39	22.88	22.88	22.61	22.78	22.65	24	
		75	0	22.79	22.80	22.77	22.90	22.82	24	
		1	0	22.63	22.92	22.65	22.75	22.70	24	
		1	37	23.11	23.10	22.89	22.94	22.89	24	
16QAM		1	74	22.70	22.77	22.42	22.64	22.52	24	
		36	0	21.80	22.01	21.77	21.91	21.76	23	
		36	19	21.87	22.06	21.78	21.85	21.79	23	
		36	39	21.91	21.97	21.68	21.84	21.70	23	
		75	0	21.90	22.05	21.73	21.86	21.71	23	
		1	0	21.62	21.44	21.57	21.29	21.42	23	
		1	37	21.67	21.71	21.53	21.56	21.42	23	
		1	74	21.44	21.35	21.57	21.25	21.53	23	
		36	0	20.69	21.01	20.70	20.71	20.78	22	
		36	19	20.82	20.91	20.80	20.80	20.74	22	
64QAM		36	39	20.86	20.96	20.66	20.77	20.57	22	
		75	0	20.76	21.05	20.73	20.74	20.67	22	
		1	0	23.70	23.97	23.63	23.79	23.62	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	22.98	22.74	22.80	22.77	24	
		25	12	22.88	23.03	22.87	22.87	22.76	24	
		25	25	22.86	22.89	22.82	22.76	22.82	24	
		50	0	22.88	23.00	22.83	22.85	22.80	24	
		1	0	22.61	22.84	22.65	22.83	22.69	24	
16QAM		1	24	23.01	23.12	22.89	23.03	22.88	24	
		1	49	22.66	22.76	22.47	22.58	22.46	24	
		25	0	21.73	21.86	21.78	21.86	21.78	23	
		25	12	21.83	21.99	21.72	21.89	21.80	23	
		25	25	21.88	21.95	21.66	21.83	21.58	23	
		50	0	21.92	22.03	21.76	21.89	21.78	23	
		1	0	21.58	21.44	21.55	21.27	21.45	23	
		1	24	21.70	21.80	21.52	21.58	21.42	23	
		1	49	21.44	21.35	21.52	21.16	21.59	23	
		25	0	20.62	20.90	20.73	20.80	20.68	22	
64QAM		25	12	20.77	20.94	20.70	20.88	20.70	22	
		25	25	20.76	20.91	20.64	20.69	20.65	22	
		50	0	20.84	21.04	20.82	20.94	20.77	22	
		1	0	23.65	23.85	23.69	23.81	23.65	25	
		1	12	23.97	24.17	23.93	24.07	23.99	25	
		1	24	23.63	23.63	23.55	23.53	23.48	25	
		12	6	22.88	22.97	22.73	22.83	22.74	24	
		12	13	22.88	22.95	22.59	22.79	22.59	24	
		25	0	22.85	23.02	22.77	22.84	22.80	24	
		1	0	22.60	22.63	22.68	22.81	22.66	24	
16QAM		1	121	23.07	23.13	22.93	23.07	22.99	24	
		1	24	22.77	22.73	22.42	22.69	22.54	24	
		12	0	21.84	21.96	21.82	21.85	21.76	23	
		12	6	21.78	22.07	21.75	21.89	21.75	23	
		12	13	21.98	22.03	21.64	21.89	21.67	23	
		25	0	21.92	22.03	21.77	21.93	21.82	23	
		1	0	21.54	21.46	21.53	21.27	21.47	23	
		1	12	21.65	21.76	21.50	21.63	21.42	23	
		1	24	21.44	21.34	21.53	21.20	21.50	23	
		12	0	20.58	20.88	20.69	20.75	20.68	22	
64QAM		12	6	20.85	20.94	20.78	20.87	20.74	22	
		12	13	20.73	20.83	20.71	20.79	20.61	22	
		25	0	20.84	21.03	20.73	20.75	20.64	22	

LTE_DSI-3&4
Ant1

LTE Band 2									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)		
		Channel Frequency (MHz)	1880 1890 1900 1910	1880 1890 1900 1910	1880 1890 1900 1910	1880 1890 1900 1910			
20M	QPSK	1	0	21.58	21.56	21.54	23		
		1	50	21.96	21.98	21.99	23		
		1	99	21.60	21.52	21.51	23		
		50	0	21.78	21.78	21.81	23		
		50	25	21.62	21.78	21.86	23		
		50	50	21.74	21.85	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	21.89	23		
		1	99	21.66	21.66	21.56	23		
	16QAM	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		
		1	50	21.66	21.70	21.62	23		
		1	99	21.40	21.28	21.39	23		
		50	0	21.20	21.26	21.36	22.5		
		50	25	21.34	21.23	21.28	22.5		
		50	50	21.11	21.28	21.12	22.5		
		100	0	21.19	21.32	21.17	22.5		
15M	QPSK	Channel Frequency (MHz)	1887.5 1887.5 1890 1892.5	1887.5 1887.5 1890 1892.5	1887.5 1887.5 1890 1892.5	1887.5 1887.5 1890 1892.5	Max. Tune-up (dBm)		
		1	0	21.48	21.44	21.44	23		
		1	37	21.84	21.69	21.84	23		
		1	74	21.69	21.45	21.47	23		
		36	0	21.65	21.63	21.76	23		
		36	19	21.78	21.66	21.76	23		
		36	39	21.61	21.81	21.70	23		
		75	0	21.84	21.74	21.71	23		
		1	0	21.55	21.53	21.46	23		
		1	37	21.71	21.74	21.65	23		
	16QAM	1	74	21.62	21.51	21.42	23		
		36	0	21.31	21.35	21.41	23		
		36	19	21.41	21.47	21.42	23		
		36	39	21.30	21.56	21.28	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		
		36	0	21.16	21.15	21.32	22.5		
		36	19	21.32	21.18	21.12	22.5		
		36	39	20.98	21.27	21.06	22.5		
		75	0	21.10	21.19	21.16	22.5		
10M	QPSK	Channel Frequency (MHz)	1885 1885 1890 1895	1885 1885 1890 1895	1885 1885 1890 1895	1885 1885 1890 1895	Max. Tune-up (dBm)		
		1	0	21.54	21.49	21.47	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		
		25	25	21.71	21.83	21.61	23		
		50	0	21.82	21.77	21.73	23		
		1	0	21.49	21.52	21.37	23		
		1	24	21.84	21.66	21.55	23		
	16QAM	1	49	21.62	21.58	21.44	23		
		25	0	21.30	21.24	21.52	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		
		1	24	21.64	21.66	21.51	23		
		1	49	21.27	21.15	21.35	23		
		25	0	21.12	21.16	21.35	22.5		
		25	12	21.19	21.19	21.18	22.5		
		25	25	21.09	21.15	21.09	22.5		
		50	0	21.15	21.22	21.02	22.5		
5M	QPSK	Channel Frequency (MHz)	1882.5 1882.5 1890 1897.5	1882.5 1882.5 1890 1897.5	1882.5 1882.5 1890 1897.5	1882.5 1882.5 1890 1897.5	Max. Tune-up (dBm)		
		1	0	21.53	21.51	21.53	23		
		1	12	21.79	21.78	21.80	23		
		1	24	21.62	21.59	21.47	23		
		12	0	21.63	21.71	21.77	23		
		12	6	21.74	21.69	21.78	23		
		12	13	21.70	21.81	21.59	23		
		25	0	21.72	21.68	21.75	23		
		1	0	21.53	21.50	21.29	23		
		1	12	21.79	21.69	21.58	23		
	16QAM	1	24	21.53	21.62	21.48	23		
		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	12	21.62	21.56	21.52	23		
		1	24	21.26	21.21	21.32	23		
		12	0	21.14	21.11	21.23	22.5		
		12	6	21.23	21.22	21.26	22.5		
		12	13	21.10	21.14	21.03	22.5		
		25	0	21.09	21.17	21.03	22.5		
3M	QPSK	Channel Frequency (MHz)	1881 1881 1890 1898.5	1881 1881 1890 1898.5	1881 1881 1890 1898.5	1881 1881 1890 1898.5	Max. Tune-up (dBm)		
		1	0	21.46	21.41	21.43	23		
		1	7	21.80	21.67	21.78	23		
		1	14	21.58	21.38	21.36	23		
		8	0	21.62	21.69	21.70	23		
		8	3	21.78	21.65	21.80	23		
		8	7	21.66	21.79	21.66	23		
		15	0	21.75	21.78	21.82	23		
		1	0	21.59	21.56	21.49	23		
		1	7	21.72	21.72	21.56	23		
	16QAM	1	14	21.61	21.60	21.51	23		
		8	0	21.33	21.27	21.42	23		
		8	3	21.51	21.38	21.43	23		
		8	7	21.27	21.47	21.31	23		
		15	0	21.29	21.34	21.39	23		
		1	0	21.38	21.30	21.17	23		
		1	7	21.60	21.63	21.56	23		
		1	14	21.27	21.25	21.32	23		
		8	0	21.07	21.20	21.35	22.5		
		8	3	21.21	21.09	21.14	22.5		
		8	7	21.01	21.26	21.01	22.5		
		15	0	21.05	21.27	21.10	22.5		
1.4M	QPSK	Channel Frequency (MHz)	1880.7 1880.7 1890 1899.3	1880.7 1880.7 1890 1899.3	1880.7 1880.7 1890 1899.3	1880.7 1880.7 1890 1899.3	Max. Tune-up (dBm)		
		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		
		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	3	21.74	21.68	21.62	23		
	16QAM	1	5	21.59	21.55	21.55	23		
		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	21.30	21.36	21.36	23		
		1	0	21.37	21.29	21.17	23		
		1	2	21.54	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	21.61	21.68	23		
		3	3	21.42	21.65	21.51	23		
		6	0	21.07	21.25	21.14	22.5		

LTE Band 4										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)			
		Channel	20550	21170	21320	21440				
20M	QPSK	1	0	20.84	20.88	20.77	22.5			
		1	50	21.14	21.32	21.17	22.5			
		1	99	20.98	21.04	20.91	22.5			
		50	0	20.81	20.77	20.79	22.5			
		50	25	20.79	20.82	20.82	22.5			
		50	50	20.82	20.91	20.98	22.5			
	16QAM	100	0	20.93	20.91	20.85	22.5			
		1	0	20.71	20.87	20.82	22.5			
		1	50	21.03	21.05	21.03	22.5			
		1	99	20.96	20.87	20.73	22.5			
		50	0	20.68	20.79	20.77	22.5			
		50	25	20.91	20.92	20.77	22.5			
	64QAM	50	50	20.97	20.70	20.67	22.5			
		100	0	20.82	20.67	20.69	22.5			
		1	0	20.84	20.73	20.73	22.5			
		1	50	21.01	21.00	21.13	22.5			
		1	99	20.77	20.74	20.72	22.5			
		50	0	21.06	21.12	21.10	22.5			
	BW	Modulation	50	25	21.05	21.10	21.20	22.5		
			50	50	21.07	21.10	21.14	22.5		
			100	0	21.08	21.10	21.05	22.5		
			Channel	20525	21175	21325	21425			
			Frequency (MHz)	1717.5	1732.5	1747.5				
			1	0	20.70	20.82	20.73	22.5		
15M	QPSK	1	37	21.04	21.18	21.16	22.5			
		1	74	20.83	20.94	20.85	22.5			
		36	0	20.68	20.77	20.85	22.5			
		36	19	20.65	20.83	20.85	22.5			
		36	39	20.69	20.90	20.94	22.5			
		75	0	20.91	20.87	20.72	22.5			
	16QAM	1	0	20.67	20.76	20.80	22.5			
		1	37	20.94	21.04	20.89	22.5			
		1	74	20.89	20.74	20.80	22.5			
		36	0	20.80	20.68	20.65	22.5			
		36	19	20.90	20.79	20.68	22.5			
		36	39	20.85	20.69	20.62	22.5			
	64QAM	75	0	20.67	20.69	20.65	22.5			
		1	0	20.72	20.71	20.65	22.5			
		1	37	20.87	20.92	20.88	22.5			
		1	74	20.65	20.68	20.67	22.5			
		36	0	21.04	21.05	21.09	22.5			
		36	19	21.03	21.07	21.07	22.5			
BW	Modulation	36	39	20.87	21.01	21.05	22.5			
		75	0	21.04	21.12	20.93	22.5			
		Channel	21000	20715	20350	Max. Tune-up (dBm)				
		Frequency (MHz)	1715	1732.5	1766					
		1	0	20.71	20.83	20.69	22.5			
		1	24	21.09	21.28	21.04	22.5			
10M	QPSK	1	49	20.85	21.01	20.82	22.5			
		25	0	20.74	20.68	20.60	22.5			
		25	12	20.77	20.82	20.87	22.5			
		25	25	20.71	20.89	20.86	22.5			
		50	0	20.62	20.77	20.84	22.5			
		50	1	20.58	20.84	20.72	22.5			
	16QAM	1	24	20.91	20.90	20.89	22.5			
		1	49	20.84	20.73	20.65	22.5			
		25	0	20.82	20.72	20.67	22.5			
		25	12	20.84	20.79	20.70	22.5			
		25	25	20.76	20.85	20.87	22.5			
		50	0	20.72	20.59	20.54	22.5			
	64QAM	1	0	20.75	20.60	20.63	22.5			
		1	24	20.97	20.95	21.11	22.5			
		1	49	20.66	20.72	20.71	22.5			
		25	0	20.65	21.09	20.88	22.5			
		25	12	20.87	21.01	21.05	22.5			
		25	25	21.04	21.03	21.02	22.5			
BW	Modulation	50	0	21.03	21.01	20.95	22.5			
		Channel	19875	19715	19375	Max. Tune-up (dBm)				
		Frequency (MHz)	1712.5	1732.5	1762.5					
		1	0	20.60	20.80	20.62	22.5			
		1	12	21.13	21.29	21.03	22.5			
		1	24	20.97	20.96	20.90	22.5			
5M	QPSK	12	0	20.69	20.68	20.68	22.5			
		12	6	20.74	20.84	20.81	22.5			
		12	13	20.73	20.79	20.85	22.5			
		25	0	20.78	20.81	20.77	22.5			
		1	0	20.61	20.86	20.76	22.5			
		1	12	20.97	20.98	20.88	22.5			
	16QAM	1	24	20.66	20.77	20.59	22.5			
		12	0	20.76	20.77	20.68	22.5			
		12	6	20.84	20.87	20.72	22.5			
		12	13	20.89	20.65	20.63	22.5			
		25	0	20.80	20.60	20.61	22.5			
		1	0	20.82	20.61	20.58	22.5			
	64QAM	1	12	20.66	20.95	20.99	22.5			
		1	24	20.85	20.87	20.86	22.5			
		12	0	21.03	21.07	20.96	22.5			
		12	6	21.04	20.97	21.11	22.5			
		12	13	21.03	21.02	21.02	22.5			
		25	0	21.07	21.00	21.00	22.5			
BW	Modulation	Channel	19495	19305	18965	Max. Tune-up (dBm)				
		Frequency (MHz)	1716.5	1732.5	1763.5					
		1	0	20.82	20.86	20.85	22.5			
		1	7	21.01	21.28	21.08	22.5			
		1	14	20.89	20.93	20.88	22.5			
		8	0	20.77	20.82	20.68	22.5			
3M	QPSK	8	3	20.54	20.87	20.87	22.5			
		8	7	20.73	20.82	20.88	22.5			
		15	0	20.91	20.80	20.84	22.5			
		1	0	20.65	20.81	20.68	22.5			
		1	7	20.98	20.98	20.93	22.5			
		1	14	20.84	20.87	20.86	22.5			
	16QAM	8	0	20.83	20.66	20.75	22.5			
		8	3	20.66	20.79	20.70	22.5			
		8	7	20.84	20.58	20.53	22.5			
		15	0	20.67	20.55	20.55	22.5			
		1	0	20.63	20.56	20.64	22.5			
		1	7	20.91	20.92	20.99	22.5			
	64QAM	1	14	20.62	20.72	20.67	22.5			
		8	0	20.95	21.11	20.95	22.5			
		8	3	21.05	20.98	21.13	22.5			
		8	7	21.02	21.02	21.05	22.5			
		15	0	20.84	21.01	20.91	22.5			
		BW	Modulation	Channel	19987	19715	19393	Max. Tune-up (dBm)		
Frequency (MHz)	1716.7			1732.5	1764.3					
1	0			20.82	20.77	20.70	22.5			
1	2			21.05	21.21	21.07	22.5			
1	5			20.96	21.02	20.98	22.5			
3	1			20.75	20.76	20.78	22.5			
1.4M	QPSK	3	1	20.75	20.78	20.80	22.5			
		3	3	20.71	20.88	20.95	22.5			
		6	0	20.82	20.85	20.82	22.5			
		1	0	20.57	20.73	20.70	22.5			
		1	2	20.98	20.98	20.98	22.5			
		1	5	20.93	20.76	20.71	22.5			
	16QAM	3	0	20.76	20.71	20.78	22.5			
		3	1	20.81	20.80	20.86	22.5			
		3	3	20.89	20.59	20.53	22.5			
		6	0	20.75	20.54	20.61	22.5			
		1	0	20.69	20.67	20.66	22.5			
		1	2	20.97	20.86	21.10	22.5			
	64QAM	1	5	20.74	20.63	20.69	22.5			
		3	0	21.04	21.02	21.01	22.5			
		3	1	21.01	20.98	21.17	22.5			
		3	3	21.06	21.02	21.06	22.5			
		6	0	20.97	21.06	20.94	22.5			

LTE Band 7							
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		2085	2100	2135	
20M	QPSK	Frequency (MHz)		2095	2105	2095	
		1	0	19.07	19.70	19.93	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	18.96	20
		100	0	19.00	18.63	18.96	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
	16QAM	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
	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	Channel		20825	21100	21375	Max. Tune-up (dBm)
		Frequency (MHz)		2087.5	2135	2082.5	
		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	18.48	19.02	20
	16QAM	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	18.55	18.71	20
		1	0	18.71	18.73	18.87	20
	64QAM	1	37	19.00	19.00	18.64	20
		1	74	18.88	18.81	18.66	20
		36	0	18.94	18.86	18.77	20
		36	19	18.92	18.88	18.93	20
		36	39	18.96	18.90	18.84	20
		75	0	18.96	18.83	18.80	20
10M	QPSK	Channel		20800	21100	21400	Max. Tune-up (dBm)
		Frequency (MHz)		2095	2135	2085	
		1	0	19.03	18.57	18.78	20
		1	24	19.27	19.01	19.13	20
		1	49	18.95	18.59	18.86	20
		25	0	19.00	18.73	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	18.60	19.27	20
		1	49	19.81	19.54	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	18.89	20
5M	QPSK	Channel		20775	21190	21425	Max. Tune-up (dBm)
		Frequency (MHz)		2092.5	2135	2087.5	
		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	19.03	18.80	18.96	20
		12	13	18.80	18.56	18.85	20
		25	0	18.85	18.58	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	18.76	20

LTE Band 13							
BW	Modulation	RB Size	RB Offset	Mid	Max. Tune-up (dBm)		
		Channel		21229			
10M	QPSK	Frequency (MHz)		782	24.45	25.5	
		1	24		24.45	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	Channel		21205	21339	21355	Max. Tune-up (dBm)
		Frequency (MHz)		779.5	782	784.5	
		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	24.26	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
	16QAM	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	22.46	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		26765	26865	26965	
15M	QPSK	Frequency (MHz)		831.5	831.5	841.5	
		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	23.55	23.55	24.5
	16QAM	1	0	23.59	23.70	23.87	24.5
		1	74	23.67	23.78	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
	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	21.56	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	21.61	21.53	22.5
	BW	Modulation	Channel		26740	26865	26990
Frequency (MHz)				831.9	831.5	844	
QPSK		1	0	24.39	24.31	24.35	25.5
		1	24	24.57	24.53	24.55	25.5
		1	49	24.38	24.38	24.27	25.5
		25	0	23.50	23.57	23.50	24.5
		25	12	23.43	23.43	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
16QAM		1	24	23.73	23.75	23.81	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	22.69	22.69	22.60	23.5
64QAM		1	24	22.88	22.76	22.78	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	21.48	21.53	21.38	22.5	
	BW	Modulation	Channel		26716	26865	26716
Frequency (MHz)				816.5	831.5	846.5	
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
		1	37	23.48	23.56	23.45	24.5
		12	0	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	24.5
16QAM		1	12	23.75	23.73	23.82	24.5
		1	24	23.57	23.56	23.57	24.5
		12	0	22.48	22.55	22.40	23.5
		12	6	22.52	22.55	22.46	23.5
		12	13	22.49	22.56	22.53	23.5
		25	0	22.50	22.59	22.55	23.5
		1	0	22.69	22.54	22.56	23.5
64QAM		1	12	22.89	22.89	22.73	23.5
		1	24	22.62	22.43	22.55	23.5
		12	0	21.38	21.54	21.53	22.5
		12	6	21.46	21.58	21.46	22.5
		12	13	21.40	21.46	21.50	22.5
	25	0	21.48	21.52	21.50	22.5	
	BW	Modulation	Channel		26695	26865	27023
Frequency (MHz)				815.5	831.5	847.5	
QPSK		1	0	24.35	24.31	24.45	25.5
		1	7	24.59	24.54	24.53	25.5
		1	14	24.35	24.30	24.28	25.5
		8	0	23.44	23.50	23.54	24.5
		8	3	23.41	23.57	23.49	24.5
		8	7	23.40	23.53	23.45	24.5
		15	0	23.45	23.52	23.58	24.5
		1	0	23.54	23.55	23.55	24.5
16QAM		1	7	23.73	23.65	23.86	24.5
		1	14	23.52	23.58	23.57	24.5
		8	0	22.53	22.63	22.50	23.5
		8	3	22.48	22.50	22.46	23.5
		8	7	22.41	22.62	22.56	23.5
		15	0	22.39	22.65	22.48	23.5
		1	0	22.70	22.50	22.62	23.5
64QAM		1	7	22.88	22.74	22.80	23.5
		1	14	22.63	22.54	22.56	23.5
		8	0	21.45	21.49	21.48	22.5
		8	3	21.55	21.52	21.45	22.5
		8	7	21.39	21.60	21.40	22.5
	15	0	21.41	21.54	21.51	22.5	
	BW	Modulation	Channel		26697	26864	27033
Frequency (MHz)				814.7	831.5	848.3	
QPSK		1	0	24.22	24.22	24.41	25.5
		1	2	24.62	24.59	24.52	25.5
		1	5	24.38	24.29	24.35	25.5
		3	0	24.29	24.32	24.24	25.5
		3	1	24.28	24.26	24.30	25.5
		3	3	24.18	24.25	24.22	25.5
		6	0	23.41	23.49	23.45	24.5
		1	0	23.55	23.52	23.50	24.5
16QAM		1	2	23.67	23.63	23.82	24.5
		1	5	23.56	23.63	23.57	24.5
		3	0	23.29	23.38	23.27	24.5
		3	1	23.30	23.33	23.31	24.5
		3	3	23.21	23.39	23.28	24.5
		6	0	22.51	22.62	22.46	23.5
		64QAM	1	0	22.63	22.66	22.53
1			2	22.83	22.66	22.74	23.5
1			5	22.57	22.42	22.60	23.5
3			0	22.23	22.30	22.34	23.5
3			3	22.38	22.28	22.21	23.5
3			3	22.27	22.25	22.19	23.5
6	0		21.37	21.59	21.44	22.5	

LTE Band 38											
BW	Modulation	RB Size	RB Offset	Low	Mid	High					
		Channel		3782.5	3800	3818					
		Frequency (MHz)	2585	2595	2615	Max. Turn-up (dBm)					
20M	QPSK	1	0	19.99	20.14	20.13	21.5				
		1	50	20.59	20.66	20.61	21.5				
		1	99	20.27	20.12	20.21	21.5				
		50	0	20.07	20.11	20.01	21.5				
		50	25	20.01	19.98	20.16	21.5				
	16QAM	50	50	20.15	20.12	20.14	21.5				
		100	0	20.04	20.14	20.07	21.5				
		1	0	19.82	19.85	19.80	21.5				
		1	50	19.89	19.86	19.87	21.5				
		1	99	19.68	19.61	19.72	21.5				
20M	64QAM	50	0	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				
		100	0	19.78	19.85	19.79	21.5				
		1	0	19.75	19.68	19.81	21.5				
	20M	QPSK	1	50	19.86	19.98	19.78	21.5			
			1	99	19.68	19.61	19.72	21.5			
			50	0	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			
16QAM		100	0	19.78	19.85	19.79	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	0	19.84	19.66	19.91	21.5				
BW	Modulation	Channel		3782.5	3800	3817.5	Max. Turn-up (dBm)				
		Frequency (MHz)	2585	2595	2615.5	21.5					
		20M	QPSK	1	0	20.08	20.05	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			20.19	20.09	20.07	21.5				
16QAM	36		39	20.05	20.17	19.97	21.5				
	75		0	20.16	20.14	20.01	21.5				
	1		0	19.80	19.87	19.69	21.5				
	1		37	20.23	20.26	20.04	21.5				
	1		74	19.84	19.78	19.85	21.5				
20M	64QAM	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	19.85	21.5				
		75	0	20.00	19.98	19.88	21.5				
		1	0	19.69	19.68	19.69	21.5				
	QPSK	1	37	19.63	19.03	19.67	21.5				
		1	74	19.60	19.72	19.70	21.5				
		36	0	19.78	19.75	19.95	21.5				
		36	19	19.86	19.74	19.76	21.5				
		36	39	19.74	19.69	19.83	21.5				
20M	QPSK	75	0	19.68	19.91	19.92	21.5				
		1	0	19.69	19.68	19.69	21.5				
		1	37	19.63	19.03	19.67	21.5				
		1	74	19.60	19.72	19.70	21.5				
		36	0	19.78	19.75	19.95	21.5				
	16QAM	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				
		1	0	19.69	19.68	19.69	21.5				
		1	37	19.63	19.03	19.67	21.5				
BW	Modulation	Channel		3782.5	3800	3820	Max. Turn-up (dBm)				
		Frequency (MHz)	2585	2595	2615.5	21.5					
		20M	QPSK	1	0	20.00	20.05	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				
16QAM	25		25	20.06	20.03	19.95	21.5				
	50		0	20.04	20.18	20.06	21.5				
	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				
20M	64QAM	25	0	20.03	19.88	19.95	21.5				
		25	12	20.10	19.95	20.09	21.5				
		25	25	20.00	20.06	19.91	21.5				
		50	0	20.08	19.95	20.00	21.5				
		1	0	19.87	19.75	19.78	21.5				
	QPSK	1	24	19.90	20.00	19.68	21.5				
		1	49	19.68	19.73	19.70	21.5				
		25	0	19.87	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				
20M	QPSK	50	0	19.82	19.92	19.90	21.5				
		1	0	19.83	19.83	19.83	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				
	16QAM	12	6	20.13	20.11	19.98	21.5				
		12	13	20.17	20.09	20.09	21.5				
		25	0	20.13	20.11	19.98	21.5				
		1	0	19.85	19.87	19.83	21.5				
		1	12	20.11	20.26	20.11	21.5				
20M	64QAM	1	24	19.93	19.66	19.74	21.5				
		12	0	20.02	19.88	19.97	21.5				
		12	6	20.11	19.95	20.10	21.5				
		12	13	20.10	20.06	20.06	21.5				
		25	0	19.89	19.82	20.05	21.5				
	QPSK	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				
		12	0	19.80	19.74	19.87	21.5				
		12	6	19.80	19.75	19.73	21.5				

LTE Band 41 (2496 ~ 2690MHz)										
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	Max. Turn-up (dBm)	
		Channel		2497.5	2498.5	2499.5	2500.5	2501.5		
		Frequency (MHz)	2585	2585.5	2586	2586.5	2587	2587.5		
20M	QPSK	1	0	19.61	19.71	19.58	19.67	19.55	21	
		1	50	19.84	20.02	19.82	19.89	19.89	21	
		1	99	19.48	19.60	19.47	19.52	19.56	21	
		50	0	19.28	19.41	19.34	19.24	19.34	21	
		50	25	19.47	19.58	19.41	19.50	19.35	21	
	16QAM	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	19.36	19.51	19.51	21	
		1	99	19.33	19.31	19.51	19.24	19.16	21	
40M	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	
	64QAM	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	
60M	64QAM	100	0	19.41	19.57	19.37	19.54	19.38	21	
		Channel		2497.5	2498.5	2499.5	2500.5	2501.5	Max. Turn-up (dBm)	
		Frequency (MHz)	2585	2585.5	2586	2586.5	2587	2587.5		
		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	
	QPSK	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	19.47	19.49	19.38	19.26	19.38	21	
		36	39	19.37	19.44	19.23	19.20	19.12	21	
		75	0	19.30	19.49	19.25	19.55	19.43	21	
15M	16QAM	1	0	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	19.19	19.18	19.38	19.21	10	
		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	
	64QAM	36	39	19.34	19.56	19.31	19.38	19.10	21	
		75	0	19.30	19.49	19.25	19.38	19.21	21	
		1	0	19.25	19.29	19.14	19.20	19.43	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	
20M	16QAM	36	0	19.29	19.53	19.38	19.19	19.53	21	
		36	19	19.34	19.45	19.34	19.44	19.44	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		2497.5	2498.5	2499.5	2500.5	2501.5	Max. Turn-up (dBm)	
	Frequency (MHz)	2585	2585.5	2586	2586.5	2587	2587.5			
	20M	QPSK	1	24	19.70	19.99	19.72	19.74	19.75	21
			1	49	19.42	19.55	19.46	19.46	19.47	21
			25	0	19.14	19.41	19.30	19.21	19.26	21
			25	12	19.36	19.41	19.32	19.29	19.28	21
25			12	19.38	19.42	19.26	19.28	19.11	21	
16QAM		50	0	19.31	19.58	19.20	19.48	19.34	21	
		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	19.25	19.40	19.25	19.37	19.28	21	
		25	0	19.39	19.40	19.34	19.51	19.31	21	
40M	16QAM	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	21	
		50	0	19.21	19.45	19.10	19.40	19.19	21	
		1	0	19.31	19.43	19.07	19.34	19.45	21	
		1	24	19.40	19.51	19.19	19.31	19.10	21	
	64QAM	1	49	19.18	19.25	19.28	19.33	19.20	21	
		25	0	19.34	19.53	19.31	19.26	19.32	21	
		25	12	19.34	19.45	19.25	19.37	19.43	21	
		25	25	19.37	19.36	19.27	19.22	19.02	21	
		50	0	19.32	19.56	19.34	19.46	19.23	21	
60M	QPSK	Channel		2497.5	2498.5	2499.5	2500.5	2501.5	Max. Turn-up (dBm)	
		Frequency (MHz)	2585	2585.5	2586	2586.5	2587	2587.5		
		1	12	19.81	19.88	19.76	19.86	19.76	21	
		1	24	19.49	19.49	19.45	19.37	19.41	21	
		12	0	19.18	19.42	19.21	19.16	19.16	21	
	16QAM	12	12	19.40	19.45	19.30	19.50	19.26	21	
		12	12	19.33	19.34	19.50	19.25	19.19	12	
		25	0	19.41	19.55	19.20	19.45	19.39	21	
		1	0	19.28	19.52	19.15	19.35	19.22	21	
		1	12	19.58	19.63	19.49	19.49	19.49	21	
5M	16QAM	1	24	19.29	19.50	19.28	19.43	19.11	21	
		12	0	19.40	19.46	19.35	19.50	19.32	21	
		12	6	19.51	19.47	19.35	19.46	19.26	21	
		12	13	19.35	19.52	19.21	19.30	19.16	21	
		25	0	19.21	19.50	19.10	19.28	19.30	21	
	64QAM	25	0	19.24	19.39	19.10	19.24	19.51	21	
		1	12	19.44	19.43	19.15	19.30	19.09	21	
		1	24	19.27	19.11	19.18	19.27	19.18	21	
		12	0	19.30	19.48	19.33	19.30	19.39	21	
		12	13	19.32	19.44	19.36	19.43	19.43	21	
40M	64QAM	12	13	19.29	19.48	19.31	19.21	19.09	21	
		25	0	19.39	19.52	19.30	19.50	19.32	21	

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	810	
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)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	24.57	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	RB Size		RB Offset	Low		High	SPP	Max. Turn-up (dBm)
		Channel	Frequency (MHz)		1800	1880			
20M	QPSK	1	0	24.10	23.98	23.86	0	25.5	
		1	50	24.37	24.27	24.25	0	25.5	
		1	99	24.60	23.93	23.87	0	25.5	
		50	0	23.20	23.21	23.24	1	24.5	
		50	25	23.27	23.25	23.30	1	24.5	
	16QAM	50	50	23.17	23.26	23.07	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	
		1	50	23.58	23.61	23.44	1	24.5	
		1	99	23.71	23.26	23.11	1	24.5	
40QAM	16QAM	50	0	22.25	22.36	22.26	2	23.5	
		50	25	22.30	22.33	22.28	2	23.5	
		50	50	22.18	22.36	22.08	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	
	64QAM	1	50	22.93	22.63	22.47	2	23.5	
		1	99	23.51	23.23	23.16	2	23.5	
		50	0	21.23	21.28	21.24	3	22.5	
		50	25	21.29	21.27	21.23	3	22.5	
		50	50	21.20	21.23	21.04	3	22.5	
80QAM	16QAM	100	0	21.19	21.30	21.14	3	22.5	
		Channel	1800	1880	1920	SPP	Max. Turn-up (dBm)		
		Frequency (MHz)	1857.5	1880	1902.5	180	25.5		
	QPSK	1	0	23.99	23.87	23.79	0	25.5	
		1	37	24.16	24.26	24.24	0	25.5	
		1	74	23.96	23.83	23.78	0	25.5	
		36	0	23.13	23.22	23.19	1	24.5	
		36	18	23.16	23.16	23.01	1	24.5	
10M	16QAM	36	36	23.07	23.14	22.98	1	24.5	
		75	0	23.18	23.21	23.11	1	24.5	
		1	0	23.16	23.25	23.03	1	24.5	
		1	37	23.50	23.60	23.37	1	24.5	
		1	74	23.07	23.17	23.07	1	24.5	
	64QAM	36	0	22.12	22.21	22.12	2	23.5	
		36	18	22.19	22.33	22.21	2	23.5	
		36	36	22.06	22.23	22.05	2	23.5	
		75	0	22.18	22.17	22.05	2	23.5	
		1	0	22.58	22.34	22.14	2	23.5	
20M	QPSK	1	37	22.83	22.61	22.37	2	23.5	
		1	74	22.48	22.19	22.04	2	23.5	
		36	0	21.22	21.24	21.1	3	22.5	
		36	18	21.26	21.18	21.14	3	22.5	
		36	36	21.11	21.21	21.01	3	22.5	
	16QAM	75	0	21.13	21.16	21.03	3	22.5	
		Channel	1800	1880	1920	SPP	Max. Turn-up (dBm)		
		Frequency (MHz)	1857.5	1880	1902.5	180	25.5		
	QPSK	1	0	24.07	23.97	23.85	0	25.5	
		1	24	24.27	24.22	24.16	0	25.5	
40QAM	QPSK	1	49	23.93	23.81	23.85	0	25.5	
		25	0	23.24	23.16	23.09	1	24.5	
		25	12	23.20	23.19	23.29	1	24.5	
		25	25	23.05	23.22	22.97	1	24.5	
		50	0	23.10	23.17	23.06	1	24.5	
	16QAM	1	0	23.12	23.23	23.05	1	24.5	
		1	24	23.54	23.67	23.34	1	24.5	
		1	49	23.15	23.15	23.03	1	24.5	
		25	0	22.16	22.38	22.12	2	23.5	
		25	12	22.23	22.19	22.24	2	23.5	
80QAM	16QAM	25	25	22.08	22.29	22.00	2	23.5	
		50	0	22.16	22.28	22.10	2	23.5	
		1	0	22.31	22.31	22.16	2	23.5	
		1	24	22.83	22.88	22.37	2	23.5	
		1	49	22.37	22.23	22.14	2	23.5	
	64QAM	25	25	21.16	21.18	21.08	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	21.1	3	22.5	
		Channel	1800	1880	1920	SPP	Max. Turn-up (dBm)		
160QAM	QPSK	Frequency (MHz)	1852.5	1880	1907.5	180	25.5		
		1	0	24.02	23.86	23.83	0	25.5	
		1	12	24.26	24.19	24.23	0	25.5	
		1	24	23.96	23.81	23.83	0	25.5	
		12	0	23.07	23.12	23.14	1	24.5	
	16QAM	12	6	23.25	23.11	23.25	1	24.5	
		12	13	23.16	23.26	23.12	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	
320QAM	16QAM	1	24	23.51	23.17	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	22.16	22.18	22.12	2	23.5	
	64QAM	1	0	22.83	22.28	22.21	2	23.5	
		1	12	22.88	22.55	22.33	2	23.5	
		1	24	23.50	23.28	23.02	3	22.5	
		12	0	21.09	21.15	21.18	3	22.5	
		12	6	21.15	21.12	21.19	3	22.5	
640QAM	16QAM	12	13	21.19	21.28	20.97	3	22.5	
		25	0	21.26	21.30	21.10	3	22.5	
		Channel	1800	1880	1920	SPP	Max. Turn-up (dBm)		
		Frequency (MHz)	1851.5	1880	1908.5	180	25.5		
		1	0	24.04	23.93	23.82	0	25.5	
1.4M	QPSK	1	7	24.29	24.16	24.22	0	25.5	
		1	14	23.94	23.83	23.84	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	
	16QAM	15	0	23.15	23.17	23.11	1	24.5	
		1	0	23.23	23.16	23.13	1	24.5	
		1	7	23.60	23.66	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	
2.8M	16QAM	8	3	22.17	22.29	22.29	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	
		1	7	22.83	22.68	22.41	2	23.5	
	64QAM	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	21.28	21.28	21.09	3	22.5	
		15	0	21.15	21.21	21.11	3	22.5	
5.6M	QPSK	Channel	1807	1880	1933	SPP	Max. Turn-up (dBm)		
		Frequency (MHz)	1863.5	1880	1899.5	180	25.5		
		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	23.86	0	25.5	
11.2M	QPSK	3	0	23.88	24.00	24.02	0	25.5	
		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	
	16QAM	1	2	23.43	23.48	23.38	1	24.5	
		1	5	23.06	23.17	23.08	1	24.5	
		3	0	23.99	23.14	23.04	1	24.5	
		3	1	23.06	23.11	23.04	1	24.5	
		3	3	22.95	23.07	22.82	1	24.5	
22.4M	16QAM	6	0	22.13	22.24	22.01	2	23.5	
		1	0	22.87	22.30	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	
	64QAM	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	
		Channel	1807	1880	1933	SPP	Max. Turn-up (dBm)		
		Frequency (MHz)	1863.5	1880	1899.5	180	25.5		

LTE Band 4											
BW	Modulation	RB Size		RB Offset		Low	Mid	High	SPP MPE	Max. Time-up	
		Channel Frequency (MHz)	20MHz 1728	Channel Frequency (MHz)	20MHz 1728						
20M	QPSK	1	0	24.03	23.98	23.97	0	25.5			
		1	50	24.37	24.34	24.33	0	25.5			
		1	24	24.03	24.00	24.00	0	25.5			
		50	0	23.15	23.30	23.31	2	23.5			
	16QAM	50	25	23.36	23.35	23.34	1	24.5			
		50	50	23.19	23.34	23.33	1	24.5			
		100	0	23.13	23.20	23.21	1	24.5			
		1	0	23.13	23.20	23.25	1	24.5			
	64QAM	1	50	23.30	23.58	23.63	1	24.5			
		1	99	23.25	23.29	23.27	1	24.5			
		1	50	22.22	22.34	22.35	2	23.5			
		50	25	22.27	22.42	22.45	2	23.5			
10M	QPSK	50	50	22.22	22.39	22.38	2	23.5			
		100	0	22.13	22.20	22.21	2	23.5			
		1	0	22.47	22.26	22.28	2	23.5			
		1	50	22.84	22.62	22.63	2	23.5			
	16QAM	1	99	22.60	22.26	22.28	2	23.5			
		1	2118	21.16	21.21	21.24	3	22.5			
		50	25	21.22	21.39	21.38	3	22.5			
		100	50	21.23	21.33	21.31	3	22.5			
	64QAM	100	50	0	21.14	21.13	21.12	3	22.5		
		3863	20.60	20.67	20.68	3	22.5				
		3863	20.60	20.67	20.68	3	22.5				
		3863	20.60	20.67	20.68	3	22.5				
5M	QPSK	Frequency (MHz)	1717.5	1717.5	1742.5	1742.5	SPP MPE	Max. Time-up			
		1	0	23.97	23.89	23.95	0	25.5			
		1	37	24.16	24.14	24.13	0	25.5			
		1	74	23.96	23.89	23.93	0	25.5			
	16QAM	1	0	23.00	23.21	23.34	1	24.5			
		36	19	23.21	23.31	23.32	1	24.5			
		36	39	23.13	23.25	23.26	1	24.5			
		75	0	23.34	23.23	23.25	1	24.5			
	64QAM	1	0	23.10	23.10	23.12	1	24.5			
		1	37	23.47	23.54	23.57	1	24.5			
		1	74	23.10	23.15	23.15	1	24.5			
		36	0	22.06	22.29	22.37	2	23.5			
20M	QPSK	36	19	22.18	22.34	22.37	2	23.5			
		36	39	22.10	22.22	22.23	2	23.5			
		75	0	22.19	22.24	22.24	2	23.5			
		1	0	22.44	22.21	22.18	2	23.5			
	16QAM	1	37	22.82	22.53	22.56	2	23.5			
		1	74	22.82	22.53	22.56	2	23.5			
		36	0	21.14	21.25	21.23	3	22.5			
		36	19	21.16	21.31	21.24	3	22.5			
	64QAM	36	39	21.08	21.25	21.21	3	22.5			
		3863	20.60	20.69	20.68	3	22.5				
		3863	20.60	20.69	20.68	3	22.5				
		3863	20.60	20.69	20.68	3	22.5				
10M	QPSK	Frequency (MHz)	1715	1715.5	1735	1735	SPP MPE	Max. Time-up			
		1	24	24.27	24.29	24.29	0	25.5			
		1	49	23.98	23.95	23.96	0	25.5			
		25	0	23.13	23.19	23.31	1	24.5			
	16QAM	25	12	23.23	23.25	23.26	1	24.5			
		25	25	23.20	23.19	23.32	1	24.5			
		50	0	23.28	23.21	23.18	1	24.5			
		1	0	23.12	23.19	23.14	1	24.5			
	64QAM	1	24	23.13	23.44	23.49	1	24.5			
		1	49	23.24	23.24	23.12	1	24.5			
		25	0	22.18	22.31	22.31	2	23.5			
		25	12	22.28	22.28	22.38	2	23.5			
5M	QPSK	25	25	22.11	22.24	22.23	2	23.5			
		50	0	22.09	22.28	22.29	2	23.5			
		1	0	22.42	22.24	22.18	2	23.5			
		1	24	22.21	22.29	22.29	2	23.5			
	16QAM	1	49	22.48	22.26	22.22	2	23.5			
		25	0	21.11	21.19	21.21	3	22.5			
		25	25	21.07	21.25	21.13	3	22.5			
		25	25	21.08	21.29	21.30	3	22.5			
	64QAM	25	0	21.05	21.30	21.25	3	22.5			
		3863	20.60	20.67	20.68	3	22.5				
		3863	20.60	20.67	20.68	3	22.5				
		3863	20.60	20.67	20.68	3	22.5				
20M	QPSK	Frequency (MHz)	1715	1715.5	1735	1735	SPP MPE	Max. Time-up			
		1	0	23.92	23.95	23.92	0	25.5			
		1	12	24.28	24.26	24.19	0	25.5			
		1	24	24.00	23.89	23.89	0	25.5			
	16QAM	12	0	23.08	23.19	23.19	1	24.5			
		12	6	23.20	23.30	23.23	1	24.5			
		12	13	23.14	23.30	23.25	1	24.5			
		23	0	23.18	23.26	23.18	1	24.5			
	64QAM	12	0	23.07	23.19	23.19	1	24.5			
		1	12	23.44	23.49	23.54	1	24.5			
		1	24	23.17	23.15	23.14	1	24.5			
		12	6	22.12	22.34	22.39	2	23.5			
10M	QPSK	12	13	22.08	22.37	22.30	2	23.5			
		25	0	22.09	22.20	22.17	2	23.5			
		1	0	22.21	22.22	22.27	2	23.5			
		1	12	22.69	22.52	22.61	2	23.5			
	16QAM	1	24	22.49	22.34	22.13	2	23.5			
		12	13	21.09	21.30	21.23	3	22.5			
		12	6	21.08	21.33	21.25	3	22.5			
		12	13	21.13	21.30	21.24	3	22.5			
	64QAM	12	0	21.00	21.23	21.15	3	22.5			
		1888	20.60	20.67	20.68	3	22.5				
		1888	20.60	20.67	20.68	3	22.5				
		1888	20.60	20.67	20.68	3	22.5				
5M	QPSK	Frequency (MHz)	1715.8	1715.8	1735.8	1735.8	SPP MPE	Max. Time-up			
		1	0	23.96	23.97	23.95	0	25.5			
		1	7	24.17	24.26	24.22	0	25.5			
		1	14	23.87	23.87	23.87	0	25.5			
	16QAM	8	0	23.12	23.26	23.33	1	24.5			
		8	3	23.30	23.22	23.11	1	24.5			
		8	7	23.06	23.31	23.18	1	24.5			
		15	0	23.25	23.24	23.17	1	24.5			
	64QAM	15	0	23.12	23.16	23.14	1	24.5			
		1	7	23.46	23.49	23.50	1	24.5			
		1	14	23.12	23.12	23.12	1	24.5			
		8	0	22.18	22.30	22.37	2	23.5			
20M	QPSK	8	3	22.24	22.27	22.38	2	23.5			
		8	7	22.15	22.27	22.35	2	23.5			
		15	0	22.17	22.24	22.24	2	23.5			
		1	0	22.36	22.17	22.23	2	23.5			
	16QAM	1	7	22.71	22.54	22.66	2	23.5			
		1	14	22.82	22.84	22.84	2	23.5			
		8	0	21.05	21.26	21.33	3	22.5			
		8	3	21.07	21.26	21.24	3	22.5			
	64QAM	8	7	21.08	21.26	21.16	3	22.5			
		15	0	21.08	21.26	21.16	3	22.5			
		1888	20.60	20.67	20.68	3	22.5				
		1888	20.60	20.67	20.68	3	22.5				
10M	QPSK	Frequency (MHz)	1715.8	1715.8	1735.8	1735.8	SPP MPE	Max. Time-up			
		1	0	23.92	23.95	23.91	0	25.5			
		1	2	24.32	24.27	24.19	0	25.5			
		1	5	23.87	24.09	24.11	0	25.5			
	16QAM	6	0	23.24	23.30	23.28	1	24.5			
		1	0	23.06	23.15	23.21	1	24.5			
		1	2	23.13	23.18	23.18	1	24.5			
		1	5	23.24	23.27	23.31	1	24.5			
	64QAM	3	0	22.96	23.01	23.12	1	24.5			
		3	1	23.00	23.11	23.25	1	24.5			
		3	1	22.93	23.07	23.21	1	24.5			
		0	22.06	22.31	22.28	2	23.5				
5M	QPSK	1	0	22.39	22.23	22.17	2	23.5			
		1	2	22.83	22.82	22.82	2	23.5			
		1	5	22.86	23.31	23.14	2	23.5			
		3	0	21.89	22.05	22.12	2	23.5			
	16QAM	3	1	21.86	22.11	22.08	2	23.5			
		3	2	21.87	22.10	22.08	2	23.5			
		6	0	21.10	21.26	21.18	3	22.5			
		3	2	21.10	21.26	21.18	3	22.5			

LTE Band 7										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	SCPF	Max. Turn-up		
		Channel	Frequency (MHz)	2880	3100	2100				
20M	QPSK	1	0	23.48	23.21	23.12	0	25		
		1	50	23.72	23.47	23.45	0	25		
		1	99	23.23	23.00	23.00	0	25		
		50	0	22.68	22.51	22.40	1	24		
		50	25	22.73	22.55	22.44	1	24		
		50	50	22.72	22.58	22.47	1	24		
		100	0	22.68	22.43	22.33	1	24		
		1	0	22.70	22.44	22.32	1	24		
	16QAM	1	50	22.53	22.64	22.65	1	24		
		1	99	22.51	22.22	22.26	1	24		
		50	0	21.62	21.50	21.35	2	23		
		50	25	21.72	21.45	21.40	2	23		
		50	50	21.71	21.36	21.26	2	23		
		100	0	21.64	21.41	21.29	2	23		
		1	0	21.55	21.30	21.31	2	23		
		1	50	21.88	21.57	21.58	2	23		
40M	QPSK	1	99	22.51	22.22	22.26	1	24		
		50	0	20.57	20.47	20.32	3	22		
		50	25	20.70	20.41	20.36	3	22		
		50	50	20.69	20.31	20.33	3	22		
		100	0	20.62	20.40	20.35	3	22		
	16QAM	Channel	2880	3100	2100	2100	SCPF	Max. Turn-up		
		Frequency (MHz)	2880	3100	2100	2100	MPR (dB)	Turn-up (dBm)		
		1	0	23.44	23.14	23.06	0	25		
		1	37	23.62	23.44	23.40	0	25		
		1	74	23.18	22.87	23.08	0	25		
		36	0	22.56	22.47	22.34	1	24		
		36	19	22.67	22.40	22.38	1	24		
		36	39	22.58	22.32	22.26	1	24		
15M	QPSK	75	0	22.67	22.31	22.24	1	24		
		1	0	22.59	22.36	22.22	1	24		
		1	37	22.80	22.59	22.08	1	24		
		1	74	22.38	22.18	22.21	1	24		
		36	0	21.47	21.35	21.25	2	23		
		36	19	21.70	21.31	21.26	2	23		
		36	39	21.56	21.24	21.19	2	23		
		75	0	21.52	21.39	21.25	2	23		
	16QAM	1	0	21.46	21.26	21.29	2	23		
		1	37	21.86	21.42	21.46	2	23		
		1	74	21.29	21.22	21.27	2	23		
		36	0	20.43	20.34	20.22	3	22		
		36	19	20.61	20.37	20.30	3	22		
		36	39	20.63	20.27	20.29	3	22		
		75	0	20.57	20.35	20.23	3	22		
BW	QPSK	Channel	2880	3100	2100	2100	SCPF	Max. Turn-up		
		Frequency (MHz)	2880	3100	2100	2100	MPR (dB)	Turn-up (dBm)		
		1	0	23.42	23.09	22.97	0	25		
		1	24	23.59	23.39	23.38	0	25		
		1	49	23.17	23.21	23.14	0	25		
		25	0	22.64	22.41	22.36	1	24		
		25	12	22.69	22.42	22.30	1	24		
		25	25	22.68	22.26	22.26	1	24		
10M	QPSK	50	0	22.57	22.36	22.31	1	24		
		1	0	22.84	22.30	22.22	1	24		
		1	24	22.88	22.52	22.61	1	24		
		1	49	22.41	22.18	22.14	1	24		
		25	0	21.61	21.47	21.20	2	23		
		25	12	21.57	21.35	21.35	2	23		
		25	25	21.65	21.31	21.13	2	23		
		50	0	21.60	21.28	21.22	2	23		
	16QAM	1	0	21.54	21.29	21.30	2	23		
		1	24	21.86	21.46	21.44	2	23		
		1	49	21.33	21.30	21.28	2	23		
		25	0	20.47	20.43	20.20	3	22		
		25	12	20.55	20.28	20.28	3	22		
		25	25	20.62	20.17	20.32	3	22		
		50	0	20.55	20.31	20.21	3	22		
BW	QPSK	Channel	2880	3100	2100	2100	SCPF	Max. Turn-up		
		Frequency (MHz)	2880	3100	2100	2100	MPR (dB)	Turn-up (dBm)		
		1	0	23.38	23.19	23.06	0	25		
		1	12	23.70	23.32	23.42	0	25		
		1	24	23.20	23.08	23.15	0	25		
		12	0	22.63	22.42	22.27	1	24		
		12	6	22.71	22.40	22.43	1	24		
		12	13	22.60	22.35	22.26	1	24		
5M	QPSK	25	0	22.67	22.32	22.22	1	24		
		1	0	22.59	22.43	22.29	1	24		
		1	12	22.50	22.45	22.62	1	24		
		1	24	22.41	22.20	22.26	1	24		
		12	0	21.59	21.39	21.25	2	23		
		12	6	21.70	21.44	21.31	2	23		
		12	13	21.66	21.35	21.15	2	23		
		25	0	21.69	21.36	21.27	2	23		
	16QAM	1	0	21.64	21.22	21.26	2	23		
		1	12	21.85	21.52	21.43	2	23		
		1	24	21.34	21.17	21.31	2	23		
		12	0	20.43	20.46	20.20	3	22		
		12	6	20.59	20.30	20.21	3	22		
		12	13	20.57	20.16	20.21	3	22		
		25	0	20.48	20.25	20.26	3	22		

LTE Band 13										
BW	Modulation	RB Size	RB Offset	Mid	High	SCPF	Max. Turn-up			
		Channel	Frequency (MHz)	2320	2320					
10M	QPSK	1	0	24.33	24.33	0	25.5			
		1	24	24.46	24.46	0	25.5			
		1	49	24.31	24.31	0	25.5			
		25	0	23.38	23.38	1	24.5			
		25	12	23.42	23.42	1	24.5			
		25	25	23.39	23.39	1	24.5			
		50	0	23.41	23.41	1	24.5			
		1	0	23.64	23.64	1	24.5			
	16QAM	1	24	23.86	23.86	1	24.5			
		1	49	23.62	23.62	1	24.5			
		25	0	22.51	22.51	2	23.5			
		25	12	22.48	22.48	2	23.5			
		25	25	22.47	22.47	2	23.5			
		50	0	22.50	22.50	2	23.5			
		1	0	22.55	22.55	2	23.5			
		1	24	22.77	22.77	2	23.5			
64QAM	1	49	22.52	22.52	2	23.5				
	25	0	21.37	21.37	3	22.5				
	25	12	21.33	21.33	3	22.5				
	25	25	21.31	21.31	3	22.5				
	50	0	21.35	21.35	3	22.5				
	Channel									
	Frequency (MHz)									
	5M	QPSK	1	0	24.32	24.32	24.37	0	25.5	
1			12	24.40	24.42	24.35	0	25.5		
1			24	24.28	24.24	24.23	0	25.5		
12			0	23.35	23.32	23.25	1	24.5		
12			6	23.30	23.23	23.30	1	24.5		
12			13	23.27	23.32	23.36	1	24.5		
25			0	23.37	23.39	23.29	1	24.5		
1			0	23.52	23.59	23.59	1	24.5		
16QAM		1	12	23.81	23.79	23.72	1	24.5		
		1	24	23.49	23.58	23.60	1	24.5		
		12	0	22.48	22.44	22.39	2	23.5		
		12	6	22.39	22.42	22.42	2	23.5		
		12	13	22.34	22.46	22.42	2	23.5		
		25	0	22.47	22.35	22.37	2	23.5		
		1	0	22.43	22.42	22.50	2	23.5		
		1	12	22.69	22.73	22.75	2	23.5		
64QAM	1	24	22.41	22.40	22.46	2	23.5			
	12	0	21.29	21.22	21.32	3	22.5			
	12	6	21.23	21.31	21.22	3	22.5			
	12	13	21.21	21.16	21.16	3	22.5			
25	0	21.21	21.25	21.25	3	22.5				

LTE Band 38									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	SCPF MHz	Max. Time-up (µs)	Max. Time-down (µs)
		Channel	Channel	3780	3800	3815			
Frequency (MHz)									
20M	QPSK	1	0	23.39	23.48	23.46	0	25	0
		1	0	23.67	23.67	23.67	0	25	0
		1	99	23.31	23.24	23.28	0	25	0
		50	0	22.43	22.51	22.45	1	24	0
		50	25	22.51	22.44	22.46	1	24	0
		50	50	22.44	22.44	22.36	1	24	0
		100	0	22.51	22.58	22.47	1	24	0
		1	0	22.61	22.66	22.44	1	24	0
		1	50	22.50	22.85	22.60	1	24	0
		1	99	22.59	22.28	22.14	1	24	0
20M	16QAM	50	0	21.48	21.53	21.44	2	23	0
		50	25	21.58	21.55	21.46	2	23	0
		50	50	21.49	21.50	21.41	2	23	0
		100	0	21.54	21.56	21.47	2	23	0
		1	0	21.21	21.18	21.16	2	23	0
		1	50	21.20	21.25	21.21	2	23	0
		1	99	21.19	21.22	21.13	2	23	0
		50	0	20.39	20.38	20.37	3	22	0
		50	25	20.46	20.47	20.41	3	22	0
		50	50	20.38	20.35	20.29	3	22	0
20M	64QAM	100	0	20.46	20.43	20.38	3	22	0
		1	0	20.38	20.38	20.36	3	22	0
		1	50	20.38	20.38	20.36	3	22	0
		1	99	20.38	20.38	20.36	3	22	0
		50	0	20.38	20.38	20.36	3	22	0
		50	25	20.38	20.38	20.36	3	22	0
		50	50	20.38	20.38	20.36	3	22	0
		100	0	20.38	20.38	20.36	3	22	0
		1	0	20.38	20.38	20.36	3	22	0
		1	50	20.38	20.38	20.36	3	22	0
20M	16QAM	50	0	21.51	21.18	21.11	2	23	0
		50	25	21.51	21.18	21.11	2	23	0
		50	50	21.51	21.18	21.11	2	23	0
		100	0	21.51	21.18	21.11	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
20M	64QAM	75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
		75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
20M	16QAM	50	0	21.51	21.18	21.11	2	23	0
		50	25	21.51	21.18	21.11	2	23	0
		50	50	21.51	21.18	21.11	2	23	0
		100	0	21.51	21.18	21.11	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
20M	64QAM	75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
		75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
20M	16QAM	50	0	21.51	21.18	21.11	2	23	0
		50	25	21.51	21.18	21.11	2	23	0
		50	50	21.51	21.18	21.11	2	23	0
		100	0	21.51	21.18	21.11	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
20M	64QAM	75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
		75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
20M	16QAM	50	0	21.51	21.18	21.11	2	23	0
		50	25	21.51	21.18	21.11	2	23	0
		50	50	21.51	21.18	21.11	2	23	0
		100	0	21.51	21.18	21.11	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
20M	64QAM	75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
		75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
20M	16QAM	50	0	21.51	21.18	21.11	2	23	0
		50	25	21.51	21.18	21.11	2	23	0
		50	50	21.51	21.18	21.11	2	23	0
		100	0	21.51	21.18	21.11	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
20M	64QAM	75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
		75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
20M	16QAM	50	0	21.51	21.18	21.11	2	23	0
		50	25	21.51	21.18	21.11	2	23	0
		50	50	21.51	21.18	21.11	2	23	0
		100	0	21.51	21.18	21.11	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
20M	64QAM	75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
		75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
20M	16QAM	50	0	21.51	21.18	21.11	2	23	0
		50	25	21.51	21.18	21.11	2	23	0
		50	50	21.51	21.18	21.11	2	23	0
		100	0	21.51	21.18	21.11	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
20M	64QAM	75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24	20.31	3	22	0
		36	37	20.44	20.44	20.37	3	22	0
		36	74	20.46	20.47	20.41	3	22	0
		75	0	21.52	21.53	21.43	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
20M	16QAM	50	0	21.51	21.18	21.11	2	23	0
		50	25	21.51	21.18	21.11	2	23	0
		50	50	21.51	21.18	21.11	2	23	0
		100	0	21.51	21.18	21.11	2	23	0
		1	0	21.11	21.14	21.11	2	23	0
		1	37	21.13	21.13	21.03	2	23	0
		1	74	21.15	21.15	21.09	2	23	0
		36	0	20.24	20.24				

GSM&WCDMA_DSI-1

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	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	810	
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	Max. Tune-up Power (dBm)	1312	1413	1513	Max. Tune-up Power (dBm)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	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	810	
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)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	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	810	
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)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	17.52	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

LTE Band 2							
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Time-up (dBm)
		Channel Frequency (MHz)	1860	1870	1880	1890	
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
		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	14.55	14.46	16
	16QAM	50	0	14.65	14.64	14.54	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
		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
		50	50	14.54	14.69	14.36	16
	100	0	14.57	14.69	14.54	16	
15M	QPSK	Channel Frequency (MHz)	1867.5	1880	1890	1912.5	Max. Time-up (dBm)
		1	0	14.38	14.28	14.29	16
		1	37	14.76	14.63	14.59	16
		1	74	14.21	14.22	14.23	16
		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	14.40	16
		1	37	14.73	14.38	14.60	16
	16QAM	1	74	14.39	14.44	14.44	16
		36	0	14.53	14.62	14.51	16
		36	19	14.47	14.46	14.41	16
		36	39	14.44	14.61	14.31	16
		75	0	14.62	14.59	14.47	16
		1	0	14.63	14.55	14.48	16
		1	37	14.16	14.42	14.40	16
		1	74	14.64	14.61	14.40	16
		36	0	14.50	14.53	14.45	16
		36	19	14.50	14.40	14.51	16
10M	QPSK	Channel Frequency (MHz)	1865	1880	1890	1905	Max. Time-up (dBm)
		1	0	14.43	14.31	14.23	16
		1	24	14.66	14.64	14.59	16
		1	49	14.20	14.28	14.21	16
		25	0	14.48	14.49	14.49	16
		25	12	14.51	14.42	14.54	16
		25	25	14.48	14.48	14.30	16
		50	0	14.49	14.58	14.38	16
		1	0	14.62	14.54	14.39	16
		1	24	14.63	14.39	14.56	16
	16QAM	1	49	14.48	14.40	14.33	16
		25	0	14.50	14.63	14.46	16
		25	12	14.53	14.50	14.49	16
		25	25	14.53	14.59	14.27	16
		50	0	14.62	14.59	14.47	16
		1	0	14.56	14.52	14.38	16
		1	24	14.16	14.39	14.41	16
		1	49	14.68	14.51	14.43	16
		25	0	14.38	14.56	14.38	16
		25	12	14.45	14.46	14.61	16
5M	QPSK	Channel Frequency (MHz)	1862.5	1890	1917.5	Max. Time-up (dBm)	
		1	0	14.34	14.34	14.27	16
		1	12	14.68	14.56	14.61	16
		1	24	14.19	14.23	14.15	16
		12	0	14.39	14.46	14.50	16
		12	6	14.57	14.41	14.57	16
		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	14.44	14.60	16
	16QAM	1	24	14.42	14.49	14.31	16
		12	0	14.56	14.54	14.44	16
		12	6	14.57	14.55	14.43	16
		12	13	14.47	14.60	14.52	16
		25	0	14.56	14.52	14.48	16
		1	0	14.56	14.60	14.36	16
		1	12	14.16	14.48	14.44	16
		1	24	14.67	14.47	14.44	16
		12	0	14.45	14.59	14.49	16
		12	6	14.51	14.44	14.62	16
3M	QPSK	Channel Frequency (MHz)	1860	1890	1915	Max. Time-up (dBm)	
		1	0	14.30	14.40	14.30	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
		8	7	14.55	14.42	14.46	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
	16QAM	1	14	14.36	14.42	14.34	16
		8	0	14.50	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	7	14.24	14.41	14.36	16
		1	14	14.64	14.52	14.42	16
		8	0	14.41	14.60	14.37	16
		8	3	14.51	14.53	14.53	16
1.4M	QPSK	Channel Frequency (MHz)	1860.7	1880	1890.7	Max. Time-up (dBm)	
		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
		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
	16QAM	1	5	14.49	14.52	14.44	16
		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	14.61	14.61	14.42	16
		1	0	14.67	14.56	14.38	16
		1	2	14.15	14.52	14.45	16
		1	5	14.58	14.47	14.33	16
		3	0	14.41	14.54	14.43	16
		3	1	14.58	14.51	14.55	16
1.4M	QPSK	Channel Frequency (MHz)	1860.7	1880	1890.7	Max. Time-up (dBm)	
		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
		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
	16QAM	1	5	14.49	14.52	14.44	16
		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	14.61	14.61	14.42	16
		1	0	14.67	14.56	14.38	16
		1	2	14.15	14.52	14.45	16
		1	5	14.58	14.47	14.33	16
		3	0	14.41	14.54	14.43	16
		3	1	14.58	14.51	14.55	16
1.4M	QPSK	Channel Frequency (MHz)	1860.7	1880	1890.7	Max. Time-up (dBm)	
		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
		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
	16QAM	1	5	14.49	14.52	14.44	16
		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	14.61	14.61	14.42	16
		1	0	14.67	14.56	14.38	16
		1	2	14.15	14.52	14.45	16
		1	5	14.58	14.47	14.33	16
		3	0	14.41	14.54	14.43	16
		3	1	14.58	14.51	14.55	16

LTE Band 7								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Time-up (dBm)	
		Channel			20850	21100		21350
20M	QPSK	Frequency (MHz)			2087.5	2035	2082.5	
		1	0	16.30	16.00	15.96	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	
		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		
	16QAM	50	0	16.02	15.77	15.82	17.5	
		50	25	16.04	15.85	15.98	17.5	
		50	50	15.96	15.94	15.93	17.5	
		100	0	16.01	15.68	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	0	15.94	15.76	15.98	17.5	
		50	25	16.15	15.97	15.82	17.5	
		50	50	16.16	15.79	15.82	17.5	
100		0	16.17	15.88	15.89	17.5		
15M	QPSK	Channel			20825	21100	21375	
		Frequency (MHz)			2087.5	2035	2082.5	
		1	0	16.18	15.94	15.88	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	
		1	0	16.08	16.20	15.92	17.5	
	16QAM	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	
	64QAM	36	39	15.96	15.83	15.89	17.5	
		75	0	15.99	15.62	15.82	17.5	
		1	0	15.78	15.90	15.78	17.5	
		1	37	16.10	15.68	15.79	17.5	
		1	74	15.88	15.95	15.96	17.5	
		36	0	15.78	15.61	15.75	17.5	
		36	19	16.03	15.85	15.67	17.5	
	10M	QPSK	Channel			20800	21100	21400
			Frequency (MHz)			2095	2035	2065
1			0	16.23	15.85	15.90	17.5	
1			24	16.19	15.93	15.93	17.5	
1			49	15.99	15.78	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	16.16	16.16	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	15.94	17.5	
		25	0	15.91	15.71	15.71	17.5	
		25	12	16.03	15.78	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	15.67	15.77	17.5	
5M	QPSK	Channel			20775	21100	21425	
		Frequency (MHz)			2092.5	2035	2087.5	
		1	0	16.27	15.86	15.83	17.5	
		1	12	16.20	16.00	15.96	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						
10M	QPSK	Frequency (MHz)			23230			
					782			
		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		
	16QAM	25	25		23.42	24.5		
		50	0		23.41	24.5		
		1	0		23.64	24.5		
		1	24		23.86	24.5		
		1	49		23.62	24.5		
		25	0		22.51	23.5		
		25	12		22.48	23.5		
	64QAM	25	25		22.47	23.5		
		50	0		22.50	23.5		
		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		
BW	Modulation	Channel			23205	23230	23265	Max. Tune-up (dBm)
		Frequency (MHz)			779.5	782	784.5	
		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	
5M	QPSK	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	23.81	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	
		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	
64QAM	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			Channel		
				26765	26865	26965	
				Frequency (MHz)	821.8	831.5	841.8
15M	QPSK	1	0	22.97	22.95	23.06	24.5
		1	37	22.36	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	22.92	22.93	24.5
		75	0	23.01	22.85	22.96	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	22.35	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	21.38	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	
BW	Modulation	Channel	26740	26865	26980	Max. Tune-up (dBm)	
		Frequency (MHz)	821.8	831.5	844		
10M	QPSK	1	0	22.94	22.80	23.03	24.5
		1	24	23.21	23.05	23.13	24.5
		1	49	22.83	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	23.21	22.99	23.17	24.5
		1	49	22.85	22.76	22.73	24.5
		25	0	22.26	22.19	22.42	24.5
		25	12	22.17	22.74	22.19	23.5
		25	25	22.30	22.29	22.25	23.5
		50	0	22.18	22.25	22.28	23.5
	64QAM	1	0	22.15	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	21.30	21.25	22.5	
50		0	21.12	21.17	21.16	22.5	
BW	Modulation	Channel	26715	26865	26915	Max. Tune-up (dBm)	
		Frequency (MHz)	816.5	831.5	846.5		
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
		1	37	22.84	22.84	22.79	24.5
		12	6	22.97	22.87	22.90	24.5
		12	13	22.83	22.80	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	22.80	22.76	22.71	24.5
		12	0	22.22	22.12	22.38	23.5
		12	6	22.29	22.20	22.16	23.5
		12	13	22.29	22.24	22.27	23.5
		25	0	22.15	22.29	22.33	23.5
	64QAM	1	0	22.03	22.12	21.96	23.5
		1	12	22.27	22.44	22.10	23.5
1		24	22.06	21.84	22.18	23.5	
12		0	21.29	21.05	21.41	22.5	
12		6	21.26	21.23	21.36	22.5	
12		13	21.10	21.30	21.30	22.5	
25		0	21.30	21.06	21.22	22.5	
BW	Modulation	Channel	26700	26865	26925	Max. Tune-up (dBm)	
		Frequency (MHz)	816.5	831.5	847.5		
3M	QPSK	1	0	22.90	22.82	23.02	24.5
		1	7	23.33	23.13	23.15	24.5
		1	14	22.86	22.87	22.87	24.5
		8	0	22.91	22.72	22.83	24.5
		8	7	22.88	22.82	22.81	24.5
		15	0	22.91	22.75	22.74	24.5
		1	0	22.80	22.88	22.64	24.5
	16QAM	1	7	22.75	22.66	22.88	24.5
		1	14	22.83	22.78	22.61	24.5
		8	0	22.32	22.17	22.40	23.5
		8	3	22.23	22.78	22.25	23.5
		8	7	22.27	22.28	22.25	23.5
		15	0	22.26	22.25	22.28	23.5
		1	0	22.01	22.19	21.98	23.5
	64QAM	1	7	22.22	22.37	22.15	23.5
		1	14	22.11	21.87	21.90	23.5
8		0	21.28	21.06	21.45	22.5	
8		3	21.33	21.15	21.27	22.5	
8		7	21.11	21.27	21.17	22.5	
15		0	21.22	21.14	21.13	22.5	
BW		Modulation	Channel	26687	26865	26933	Max. Tune-up (dBm)
	Frequency (MHz)		816.5	831.5	848.5		
1.4M	QPSK	1	0	22.91	22.92	22.92	24.5
		1	2	23.22	23.06	23.09	24.5
		1	5	22.87	22.85	22.88	24.5
		3	0	23.73	23.58	23.70	24.5
		3	1	23.78	23.86	23.76	24.5
		3	3	23.63	23.63	23.61	24.5
		6	0	22.94	22.90	22.73	24.5
	16QAM	1	0	22.83	22.89	22.64	24.5
		1	2	22.65	22.78	22.78	24.5
		1	5	22.83	22.80	22.73	24.5
		3	0	23.11	23.02	23.21	24.5
		3	3	23.09	23.56	23.69	24.5
		3	1	23.13	23.05	23.12	24.5
		6	0	22.28	22.19	22.24	23.5
	64QAM	1	0	22.08	22.16	21.95	23.5
		1	2	22.28	22.42	22.21	23.5
1		5	22.00	22.10	22.12	23.5	
3		0	22.16	21.84	22.21	23.5	
3		1	22.03	22.04	22.19	23.5	
3		3	22.06	22.14	22.09	23.5	
6		0	21.30	21.14	21.14	22.5	

LTE Band 38											
BW	Modulation	RB Size		RB Offset	Low	Mid	High	Max. Turn-up (dBm)			
		Channel									
		Frequency (MHz)									
20M	QPSK	1	0	18.85	19.02	19.03	20.5				
		1	50	19.14	19.28	19.17	20.5				
		1	99	18.84	18.74	18.79	20.5				
		50	0	18.85	18.99	18.87	20.5				
		50	25	18.97	19.07	19.04	20.5				
	16QAM	50	50	19.04	18.86	18.75	20.5				
		100	0	18.92	19.05	19.05	20.5				
		1	0	18.79	18.83	18.92	20.5				
		1	50	19.06	19.07	19.05	20.5				
		1	99	18.95	18.99	19.02	20.5				
20M	16QAM	50	0	18.94	18.95	19.05	20.5				
		50	25	19.17	19.23	19.15	20.5				
		50	50	19.05	19.10	18.98	20.5				
		100	0	19.15	19.26	19.17	20.5				
		1	0	19.21	18.82	19.13	20.5				
	64QAM	1	50	19.08	19.08	19.05	20.5				
		1	99	18.96	19.09	19.02	20.5				
		50	0	19.03	18.95	19.00	20.5				
		50	25	19.06	19.11	19.10	20.5				
		50	50	19.00	19.02	18.98	20.5				
20M	QPSK	100	0	19.18	19.01	19.00	20.5				
		Channel		37825	38000	38175	Max. Turn-up (dBm)				
		Frequency (MHz)		2575	2595	2615	20.5				
		1	37	18.99	19.14	19.14	20.5				
	15M	16QAM	1	74	18.79	18.70	18.67	20.5			
			36	0	18.71	18.92	18.76	20.5			
			36	19	18.95	18.93	19.27	20.5			
			36	39	18.83	18.83	18.67	20.5			
			75	0	18.90	18.97	18.62	20.5			
		64QAM	1	0	18.65	18.80	18.89	20.5			
1			37	18.95	19.08	18.97	20.5				
1			74	18.89	18.83	19.98	20.5				
36			0	18.91	18.83	19.00	20.5				
36			19	19.05	19.11	19.05	20.5				
20M	16QAM	36	39	18.90	19.07	18.97	20.5				
		75	0	19.07	19.08	19.08	20.5				
		1	0	19.20	18.76	19.09	20.5				
		1	37	19.04	19.05	19.90	20.5				
		1	74	18.82	19.06	19.92	20.5				
	64QAM	36	0	18.94	18.86	18.96	20.5				
		36	19	18.95	19.05	19.00	20.5				
		36	39	18.92	18.96	18.83	20.5				
		75	0	19.14	18.87	19.91	20.5				
		Channel		37850	38000	38200	Max. Turn-up (dBm)				
20M	QPSK	Frequency (MHz)		2575	2585	2615	20.5 <td></td> <td></td>				
		1	24	19.03	19.22	19.12	20.5				
		1	49	18.76	18.70	18.77	20.5				
		25	0	18.82	18.93	18.83	20.5				
	10M	16QAM	25	12	18.91	19.00	18.91	20.5			
			25	25	18.85	18.78	18.75	20.5			
			50	0	18.83	18.91	18.80	20.5			
			1	0	18.73	18.79	18.83	20.5			
			1	24	18.92	19.13	19.03	20.5			
		64QAM	1	49	18.80	18.83	19.03	20.5			
25			0	18.79	18.87	19.04	20.5				
25			12	19.10	19.13	19.08	20.5				
25			25	18.90	19.06	18.87	20.5				
50			0	19.14	19.21	19.07	20.5				
20M	QPSK	1	0	19.07	18.78	19.03	20.5				
		1	24	18.96	18.93	18.90	20.5				
		1	49	18.91	18.99	18.88	20.5				
		25	0	18.98	18.90	18.98	20.5				
		25	12	19.05	19.01	19.08	20.5				
	16QAM	25	25	18.98	18.87	18.85	20.5				
		50	0	19.08	18.95	18.97	20.5				
		Channel		37775	38000	38225	Max. Turn-up (dBm)				
		5M	QPSK	Frequency (MHz)		2572.5	2585	2617.5	20.5 <td></td> <td></td>		
				1	12	19.01	19.13	19.08	20.5		
1	24			18.74	18.71	18.72	20.5				
12	0			18.84	18.98	18.81	20.5				
16QAM	12		6	18.86	19.03	18.91	20.5				
	12		13	18.89	18.75	18.69	20.5				
	25		0	18.80	19.00	18.77	20.5				
	1		0	18.69	18.68	18.65	20.5				
	1		12	19.01	19.05	18.97	20.5				
	1		24	18.94	18.91	18.97	20.5				
	12	0	18.80	18.90	18.97	20.5					
	12	6	19.10	19.09	19.14	20.5					
	20M	16QAM	12	13	18.99	19.00	18.93	20.5			
			25	0	19.15	19.17	19.03	20.5			
1			0	19.20	18.71	19.10	20.5				
1			12	19.05	19.03	18.91	20.5				
1			24	18.95	19.05	18.93	20.5				
64QAM		12	0	18.91	18.94	18.95	20.5				
		12	6	19.01	19.03	19.07	20.5				
		12	13	18.89	18.93	18.95	20.5				
		25	0	19.09	18.88	18.85	20.5				
		25	0	19.09	18.88	18.85	20.5				

LTE Band 41 (2496 ~ 2690MHz)										
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	Max. Turn-up (dBm)	
		Channel								
		Frequency (MHz)								
20M	QPSK	1	0	19.24	18.80	19.00	18.84	18.75	20.5	
		1	50	19.36	18.95	19.10	18.96	19.02	20.5	
		1	99	19.09	18.87	18.81	18.80	18.84	20.5	
		50	0	19.21	18.91	19.15	18.82	18.92	20.5	
		50	25	19.30	18.96	19.20	18.89	18.95	20.5	
	16QAM	50	50	19.26	18.87	19.14	18.79	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	19.09	19.12	19.07	19.12	20.5	
		1	99	18.83	18.79	18.84	18.78	18.82	20.5	
20M	16QAM	50	0	19.20	18.99	19.23	18.91	19.01	20.5	
		50	25	19.35	18.98	19.19	18.89	18.94	20.5	
		50	50	19.26	18.97	19.19	18.76	18.94	20.5	
		100	0	19.32	19.02	19.26	18.94	19.26	20.5	
		1	0	18.80	18.96	19.00	18.79	19.00	20.5	
	64QAM	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	19.16	18.93	18.90	20.5	
		50	50	19.22	18.93	19.00	18.81	18.86	20.5	
20M	QPSK	100	0	19.32	19.00	19.20	18.97	18.97	20.5	
		Channel		39725.11	40173.11	40626.11	41088.11	41615.11	Max. Turn-up (dBm)	
		Frequency (MHz)		2601.5	2641.5	2681.5	2721.5	2761.5	20.5	
		1	0	19.19	18.79	19.98	18.83	18.73	20.5	
	16QAM	1	37	19.33	18.92	19.06	18.93	18.97	20.5	
		1	74	19.02	18.86	18.79	18.71	18.82	20.5	
		36	0	19.10	18.87	19.07	18.69	18.90	20.5	
		36	19	19.28	18.94	19.18	18.87	18.95	20.5	
		36	39	19.22	18.81	19.11	18.68	18.76	20.5	
15M	16QAM	75	0	19.07	18.99	19.14	18.69	18.65	20.5	
		1	0	19.12	18.74	19.13	18.90	18.76	20.5	
		1	37	19.05	18.96	19.09	19.01	19.00	20.5	
		1	74	18.75	18.71	18.70	19.71	19.80	20.5	
		36	0	19.17	18.86	19.09	18.77	18.92	20.5	
	64QAM	36	19	19.27	18.96	19.10	18.80	18.89	20.5	
		36	39	19.21	18.83	19.06	18.73	18.85	20.5	
		75	0	19.20	18.91	19.21	18.87	18.93	20.5	
		1	0	18.73	18.83	18.92	18.78	18.93	20.5	
20M	QPSK	1	37	19.11	18.87	18.87	18.90	18.79	20.5	
		1	74	18.86	18.81	18.74	18.69	18.86	20.5	
		36	0	19.14	18.88	18.93	18.63	18.82	20.5	
		36	19	19.12	19.01	19.05	18.68	18.80	20.5	
		36	39	19.21	18.79	18.90	18.75	18.75	20.5	
	16QAM	75	0	19.30	18.96	19.14	18.68	18.62	20.5	
		Channel		39750	40165	40620	41093	41540	Max. Turn-up (dBm)	
		Frequency (MHz)		2601.5	2641.5	2681.5	2721.5	2761.5	20.5	
		1	24	19.27	18.88	19.05	18.69	18.98	20.5	
20M	QPSK	1	49	19.64	19.82	18.75	18.67	19.76	20.5	
		0	19.11	18.91	19.07	18.80	18.77	20.5		
		25	12	19.17	18.99	19.07	18.92	18.93	20.5	
		50	19	19.17	19.06	18.74	18.76	20.5		
		50	0	19.11	18.93	19.02	18.81	18.80	20.5	
	16QAM	1	0	19.06	18.81	19.13	18.78	18.82	20.5	
		1	24	19.06	18.96	19.10	18.96	19.03	20.5	
		50	49	18.65	18.62	18.82	18.71	18.86	20.5	
		50	0	19.11	18.88	19.11	18.83	18.97	20.5	
		12	12	19.27	18.87	19.16	18.75	18.85	20.5	
20M	16QAM	25	25	19.21	18.82	19.13	18.70	18.92	20.5	
		50	19	19.00	18.80	18.95	18.69	18.86	20.5	
		1	0	18.76	18.93	18.98	18.69	18.94	20.5	
		1	24	19.02	18.82	18.85	18.82	18.81	20.5	
		1	49	18.77	18.81	18.80	18.68	18.85	20.5	
	64QAM	25	0	19.11	18.92	18.99	18.63	18.84	20.5	
		25	12	19.05	18.74	19.12	18.82	18.92	20.5	
		25	25	19.09	18.92	18.94	18.78	18.71	20.5	
		50	0	19.29	18.85	19.13	18.92	18.94	20.5	
		Channel		39761	40148	40620	41093	41565	Max. Turn-up (dBm)	
20M	QPSK	Frequency (MHz)		2606.5	2645.5	2691	2693	2695	20.5	
		1	12	19.29	18.87	19.05	18.93	18.87	20.5	
		1	24	19.08	18.80	18.69	18.74	18.71	20.5	
		0	19.20	18.85	19.14	18.74	18.80	20.5		
		12	12	19.05	18.82	19.12	18.65	18.68	20.5	
	16QAM	12	13	19.04	18.84	19.13	18.67	18.78	20.5	
		25	0	19.09	18.90	19.00	18.74	18.91	20.5	
		1	0	19.08	18.75	19.12	18.87	18.73	20.5	
		1	12	19.02	19.07	19.02	19.03	19.11	20.5	
		1	24	18.80	18.80	18.77	18.79	18.86	20.5	
5M	16QAM	12	0	19.17	18.97	19.17	18.79	18.96	20.5	
		12	6	19.33	18.83	19.10	18.82	18.86	20.5	
		12	13	19.11	18.95	19.09	18.71	18.90	20.5	
		25	0	19.24	18.85	19.11	18.91	19.01	20.5	
		25	1	18.85	18.75	18.88	18.74	18.77	20.5	
	64QAM	1	12	19.09	18.85	18.87	18.66	18.75	20.5	
		1	24	18.78	18.82	18.84	18.69	18.82	20.5	
		0	19.14	18.92	18.91	18.80	18.86	20.5		
		12	13	19.12	18.91	19.07	18.79	18.82	20.5	
		12	13	19.19	18.89	18.98	18.79	18.72	20.5	
25	0	19.17	18.90	19.13	18.69	18.86	20.5			

LTE_DSI-2
Ant4

LTE Band 2										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Time-up (dBm)			
		Channel Frequency (MHz)	1880	1890	1910	1880		1890		
20M	QPSK	1	0	21.97	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	22.28	22.22	22.29	23.5			
		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	21.94	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	22.28	22.22	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	21.90	22.20	22.10	23.5			
		1	50	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	21.05	21.26	20.98	22.5			
		100	0	21.10	21.25	21.07	22.5			
15M	QPSK	Channel Frequency (MHz)	1887.5	1890	1912.5	Max. Time-up (dBm)				
		Frequency (MHz)	1887.5	1890	1912.5	Max. Time-up (dBm)				
		1	0	21.99	21.95	21.72	23.5			
		1	37	22.19	22.00	22.14	23.5			
		1	74	21.93	21.82	21.80	23.5			
		36	0	21.94	22.15	22.07	23.5			
		36	19	22.14	22.21	22.21	23.5			
		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			
	16QAM	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			
		36	19	22.05	22.18	22.20	23.5			
		36	39	22.03	22.16	21.91	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			
		1	74	21.95	21.89	22.00	23.5			
		36	0	21.09	21.20	21.09	22.5			
	64QAM	36	19	21.20	21.12	21.16	22.5			
36		39	21.24	21.26	20.90	22.5				
75		0	21.00	21.20	20.90	22.5				
10M		QPSK	Channel Frequency (MHz)	1885	1890	1910	Max. Time-up (dBm)			
			Frequency (MHz)	1885	1890	1910	Max. Time-up (dBm)			
			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		
	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			
	16QAM	1	24	21.86	22.20	21.98	23.5			
		1	49	22.13	22.08	21.92	23.5			
		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			
		1	24	21.91	22.11	22.00	23.5			
		1	49	22.01	21.94	21.88	23.5			
		25	0	21.10	21.20	21.15	22.5			
	64QAM	25	12	21.17	21.17	21.05	22.5			
25		25	20.97	21.18	20.96	22.5				
50		0	21.05	21.22	21.01	22.5				
5M		QPSK	Channel Frequency (MHz)	1882.5	1890	1912.5	Max. Time-up (dBm)			
			Frequency (MHz)	1882.5	1890	1912.5	Max. Time-up (dBm)			
			1	0	21.95	21.86	21.72	23.5		
			1	12	22.20	22.08	22.18	23.5		
			1	24	21.80	21.75	21.73	23.5		
			12	0	21.96	22.16	22.13	23.5		
			12	6	22.14	22.15	22.15	23.5		
	12		13	21.93	22.12	21.87	23.5			
	25		0	22.01	22.06	22.00	23.5			
	1		0	22.20	22.14	21.99	23.5			
	16QAM	1	12	21.85	22.15	22.08	23.5			
		1	24	22.13	22.19	22.03	23.5			
		12	0	22.09	21.91	22.13	23.5			
		12	6	22.06	22.23	22.08	23.5			
		12	13	22.05	22.03	21.91	23.5			
		25	0	22.03	22.17	22.01	23.5			
		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	6	21.22	21.21	21.15	22.5			
	64QAM	12	13	20.94	21.21	20.96	22.5			
25		0	21.03	21.21	20.97	22.5				
3M		QPSK	Channel Frequency (MHz)	1881	1890	1915	Max. Time-up (dBm)			
			Frequency (MHz)	1881	1890	1915	Max. Time-up (dBm)			
			1	0	21.94	21.85	21.77	23.5		
			1	7	22.22	22.06	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		
			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			
	16QAM	1	7	21.86	22.18	22.09	23.5			
		1	14	22.15	22.11	21.93	23.5			
		8	0	22.09	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	7	21.88	22.05	21.98	23.5			
		1	14	22.02	21.92	21.87	23.5			
		8	0	21.08	21.12	21.07	22.5			
	1.4M	QPSK	Channel Frequency (MHz)	1880.7	1890	1910.7	Max. Time-up (dBm)			
Frequency (MHz)			1880.7	1890	1910.7	Max. Time-up (dBm)				
1			0	21.89	21.91	21.70	23.5			
1			2	22.20	22.02	22.20	23.5			
1			5	21.90	21.80	21.72	23.5			
3			0	22.88	22.83	22.99	23.5			
3			1	23.02	22.97	23.10	23.5			
3			3	22.78	22.92	22.67	23.5			
6			0	22.05	22.02	21.95	23.5			
1			0	22.16	22.06	22.03	23.5			
16QAM		1	2	22.24	22.24	22.07	23.5			
		1	5	22.10	22.13	21.97	23.5			
		3	0	22.81	22.74	22.86	23.5			
		3	1	22.92	23.08	22.98	23.5			
		3	3	22.68	22.89	22.75	23.5			
		6	0	22.05	22.21	21.94	23.5			
		1	0	21.83	22.12	21.95	23.5			
		1	2	21.92	22.12	22.04	23.5			
		1	5	21.99	21.81	21.96	23.5			
		1	0	21.84	21.96	21.85	23.5			
64QAM		3	1	21.94	21.96	21.93	23.5			
	3	3	21.72	22.05	21.66	23.5				
	6	0	21.09	21.17	21.03	22.5				

LTE Band 7						
BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		2085	2100	2115
					2085	2100
		Frequency (MHz)			2085	2100
20M	QPSK	1	0	23.40	23.21	23.12
		1	50	23.72	23.47	23.45
		1	99	23.23	23.00	23.09
		50	0	22.66	22.51	22.40
		50	25	22.73	22.55	22.44
		50	50	22.72	22.36	22.26
		100	0	22.68	22.43	22.33
		1	0	22.70	22.44	22.32
		1	50	22.93	22.64	22.65
		1	99	22.51	22.22	22.26
	16QAM	50	0	21.62	21.50	21.35
		50	25	21.72	21.45	21.40
		50	50	21.71	21.36	21.26
		100	0	21.64	21.41	21.29
		1	0	21.55	21.35	21.31
		1	50	21.88	21.57	21.58
		1	99	21.41	21.32	21.35
		50	0	20.57	20.47	20.32
		50	25	20.70	20.41	20.36
		50	50	20.69	20.31	20.33
15M	QPSK	1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
	16QAM	1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
10M	QPSK	1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
	16QAM	1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
5M	QPSK	1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
	16QAM	1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
1.4M	QPSK	1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
	16QAM	1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
0.7M	QPSK	1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
	16QAM	1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35
		1	0	20.62	20.40	20.35

LTE Band 13						
BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		2320	2320	2320
					2320	2320
		Frequency (MHz)			2320	2320
10M	QPSK	1	0	24.32	24.22	24.27
		1	24	24.46	24.33	24.31
		1	49	24.31	24.31	24.31
		25	0	23.38	23.38	23.38
		25	12	23.42	23.42	23.42
		25	25	23.39	23.39	23.39
		50	0	23.41	23.41	23.41
		1	0	23.64	23.64	23.64
		1	24	23.86	23.86	23.86
		1	49	23.62	23.62	23.62
	16QAM	25	0	22.51	22.51	22.51
		25	12	22.48	22.48	22.48
		25	25	22.47	22.47	22.47
		50	0	22.50	22.50	22.50
		1	0	22.55	22.55	22.55
		1	24	22.77	22.77	22.77
		1	49	22.55	22.55	22.55
		25	0	21.37	21.37	21.37
		25	12	21.33	21.33	21.33
		25	25	21.31	21.31	21.31
		50	0	21.35	21.35	21.35
5M	QPSK	1	0	24.32	24.22	24.27
		1	12	24.40	24.42	24.35
		1	24	24.28	24.24	24.23
		12	0	23.35	23.32	23.23
		12	6	23.30	23.23	23.30
		12	13	23.27	23.32	23.36
		25	0	23.37	23.39	23.29
		1	0	23.52	23.59	23.59
		1	12	23.81	23.79	23.72
		1	24	23.49	23.58	23.60
	16QAM	12	0	22.48	22.44	22.39
		12	6	22.39	22.42	22.42
		12	13	22.34	22.46	22.42
		25	0	22.47	22.35	22.37
		1	0	22.43	22.42	22.50
		1	12	22.69	22.73	22.75
		1	24	22.41	22.40	22.46
		12	0	21.29	21.22	21.32
		12	6	21.23	21.31	21.22
		12	13	21.23	21.16	21.16
		25	0	21.21	21.25	21.25

LTE Band 26									
BW	Modulation	RB Size	RB Offset	Low	Mid	High			
		Channel		2670	2685	2695			
15M	QPSK	Frequency (MHz)			821.5	831.5	841.5		
		1	0	24.19	24.05	24.03			
		1	37	24.46	24.34	24.29			
		1	74	24.18	24.08	23.99			
		36	0	23.32	23.30	23.22			
		36	19	23.35	23.31	23.25			
		36	39	23.28	23.29	23.20			
		75	0	23.20	23.27	23.22			
		1	0	23.45	23.39	23.33			
		1	37	23.70	23.60	23.58			
		1	74	23.42	23.34	23.23			
		36	0	22.34	22.32	22.21			
	16QAM	36	19	22.40	22.31	22.24			
		36	39	22.35	22.28	22.19			
		75	0	22.45	22.43	22.19			
		1	0	22.45	22.43	21.98			
		1	37	22.64	22.49	22.17			
		1	74	22.43	22.51	21.94			
		36	0	21.28	21.33	21.22			
		36	19	21.34	21.34	21.26			
		36	39	21.22	21.30	21.22			
		75	0	21.30	21.29	21.21			
		BW	QPSK	Channel			26740	26865	26990
				Frequency (MHz)			816	831.5	844
1	0			24.04	24.04	23.92			
1	24			24.38	24.25	24.18			
1	49			24.17	23.96	23.85			
25	0			23.19	23.17	23.08			
25	12			23.20	23.30	23.16			
25	25			23.20	23.18	23.15			
50	0			23.18	23.22	23.21			
16QAM	1			0	23.38	23.35	23.28		
	1			24	23.66	23.56	23.49		
	1			49	23.32	23.33	23.19		
	25		0	22.27	22.18	22.19			
	25		12	22.39	22.25	22.23			
	25		25	22.26	22.23	22.07			
	50		0	22.35	22.21	22.16			
	1		0	22.35	22.39	21.97			
	64QAM		1	24	22.51	22.43	22.16		
			1	49	22.37	22.45	21.91		
			25	0	21.25	21.22	21.12		
			25	12	21.25	21.23	21.15		
25			25	21.08	21.16	21.08			
50			0	21.19	21.19	21.14			
BW			QPSK	Channel			26715	26855	27015
		Frequency (MHz)			816.5	831.5	846.5		
		1		0	24.04	23.95	24.01		
		1		12	24.37	24.30	24.18		
		1		24	24.15	23.91	23.88		
		12		0	23.17	23.19	23.14		
	12	6		23.25	23.22	23.20			
	12	13		23.16	23.16	23.14			
	25	0		23.21	23.21	23.07			
	16QAM	1		0	23.41	23.34	23.23		
		1		12	23.55	23.47	23.53		
		1		24	23.39	23.19	23.14		
		12	0	22.21	22.27	22.14			
		12	6	22.38	22.24	22.21			
		12	13	22.25	22.24	22.14			
		25	0	22.30	22.21	22.05			
		64QAM	1	0	22.32	22.31	21.96		
			1	12	22.65	22.36	22.12		
			1	24	22.42	22.39	21.89		
			12	0	21.17	21.24	21.10		
			12	6	21.26	21.32	21.15		
	12		13	21.13	21.24	21.08			
	25		0	21.17	21.22	21.02			
	BW		QPSK	Channel			36865	36865	37025
Frequency (MHz)				816.5	831.5	847.5			
1				0	24.08	23.99	23.95		
1				7	24.39	24.22	24.24		
1				14	24.17	23.95	23.94		
8		0		23.20	23.26	23.16			
8		7		23.25	23.18	23.07			
15		0		23.18	23.20	23.19			
16QAM		1		0	23.42	23.38	23.32		
		1		7	23.63	23.45	23.51		
		1		14	23.41	23.24	23.22		
		8		0	22.20	22.18	22.20		
		8	3	22.29	22.22	22.11			
		8	7	22.22	22.15	22.13			
		15	0	22.34	22.28	22.16			
		64QAM	1	0	22.44	22.47	21.88		
			1	7	22.63	22.43	22.02		
			1	14	22.38	22.48	21.81		
			8	0	21.16	21.31	21.20		
			8	3	21.21	21.31	21.15		
8			7	21.14	21.21	21.12			
15			0	21.19	21.20	21.13			
BW			QPSK	Channel			26897	26895	27023
				Frequency (MHz)			847.5	851.5	848.5
	1			0	24.15	24.03	24.01		
	1			2	24.44	24.23	24.16		
	1			5	24.06	24.04	23.98		
	3	0		24.05	24.07	23.92			
	3	1		24.02	23.98	23.99			
	3	3		24.07	24.04	23.99			
	6	0		23.20	23.24	23.08			
	16QAM	1		0	23.39	23.32	23.29		
		1		2	23.58	23.48	23.51		
		1		5	23.24	23.24	23.13		
		3	0	23.03	23.03	22.97			
		3	1	23.11	23.06	22.99			
		3	3	23.10	23.05	22.87			
		6	0	22.26	22.31	22.15			
		64QAM	1	0	22.33	22.44	21.95		
			1	2	22.57	22.39	22.04		
			1	5	22.35	22.44	21.80		
			3	0	22.02	22.08	21.89		
			3	1	22.08	22.08	22.03		
	3		3	21.92	21.95	21.96			
	6		0	21.28	21.14	21.14			

LTE Band 38									
BW	Modulation	RB Size		RB Offset	Low	Mid	High	Max. Turn-up (dBm)	
		Channel	Frequency (MHz)						
20M	QPSK	1	0	23.39	23.48	23.40	25		
		1	50	23.67	23.71	23.62	25		
		1	99	23.31	23.24	23.28	25		
		50	0	22.51	22.57	22.46	24		
		50	50	22.44	22.44	22.36	24		
	16QAM	100	0	22.51	22.58	22.47	24		
		1	0	22.41	22.46	22.43	24		
		1	50	22.66	22.68	22.60	24		
		1	99	22.29	22.28	22.14	24		
		50	0	21.48	21.52	21.44	23		
60QAM	16QAM	50	25	21.58	21.55	21.46	23		
		50	50	21.49	21.50	21.41	23		
		100	0	21.54	21.56	21.47	23		
		1	0	21.21	21.18	21.18	23		
		1	50	21.26	21.18	21.21	23		
	64QAM	1	99	21.19	21.22	21.13	23		
		50	0	20.39	20.38	20.37	22		
		50	25	20.46	20.47	20.41	22		
		50	50	20.38	20.35	20.29	22		
		100	0	20.48	20.43	20.38	22		
15M	QPSK	Channel	37825	38000	38175	Max. Turn-up (dBm)			
		Frequency (MHz)	38175	38350	38525	25			
		1	0	23.28	23.38	23.35	25		
		1	37	23.64	23.59	23.57	25		
		1	74	23.18	23.15	23.07	25		
	16QAM	36	0	22.33	22.49	22.32	24		
		36	19	22.45	22.42	22.38	24		
		36	39	22.36	22.33	22.31	24		
		75	0	22.56	22.56	22.33	24		
		1	0	22.29	22.45	22.39	24		
60QAM	16QAM	1	37	22.60	22.56	22.45	24		
		1	74	22.27	22.13	22.08	24		
		36	0	21.43	21.41	21.37	23		
		36	19	21.47	21.54	21.32	23		
		36	39	21.37	21.44	21.36	23		
	64QAM	75	0	21.52	21.53	21.43	23		
		1	0	21.11	21.14	21.11	23		
		1	37	21.13	21.15	21.13	23		
		1	74	21.13	21.08	21.09	23		
		36	0	20.24	20.24	20.31	22		
BW	QPSK	Channel	37875	38000	38225	Max. Turn-up (dBm)			
		Frequency (MHz)	38225	38350	38525	25			
		1	24	23.61	23.59	23.57	25		
		1	49	23.26	23.16	23.20	25		
		25	0	22.39	22.50	22.36	24		
10M	16QAM	25	12	22.40	22.44	22.31	24		
		25	25	22.35	22.43	22.31	24		
		50	0	22.39	22.45	22.38	24		
		1	0	22.37	22.38	22.34	24		
		1	24	22.55	22.56	22.48	24		
	64QAM	1	49	22.18	22.21	22.05	24		
		25	0	21.41	21.43	21.36	23		
		25	12	21.55	21.48	21.36	23		
		25	25	21.35	21.36	21.33	23		
		50	0	21.45	21.50	21.40	23		
5M	QPSK	Channel	37775	38000	38225	Max. Turn-up (dBm)			
		Frequency (MHz)	38225	38350	38525	25			
		1	12	23.57	23.62	23.51	25		
		1	24	23.25	23.16	23.17	25		
		12	0	22.30	22.40	22.43	24		
60QAM	16QAM	12	6	22.42	22.54	22.31	24		
		12	13	22.32	22.41	22.31	24		
		25	0	22.50	22.44	22.33	24		
		1	0	22.26	22.38	22.37	24		
		1	12	22.54	22.67	22.53	24		
	64QAM	1	24	22.16	22.14	22.08	24		
		12	0	21.45	21.45	21.29	23		
		12	6	21.49	21.40	21.45	23		
		12	13	21.39	21.48	21.27	23		
		25	0	21.45	21.51	21.40	23		
BW	QPSK	Channel	37975	38000	38225	Max. Turn-up (dBm)			
		Frequency (MHz)	38225	38350	38525	25			
		1	12	23.57	23.62	23.51	25		
		1	24	23.25	23.16	23.17	25		
		12	0	22.30	22.40	22.43	24		
10M	16QAM	12	6	22.42	22.54	22.31	24		
		12	13	22.32	22.41	22.31	24		
		25	0	22.50	22.44	22.33	24		
		1	0	22.26	22.38	22.37	24		
		1	12	22.54	22.67	22.53	24		
	64QAM	1	24	22.16	22.14	22.08	24		
		12	0	21.45	21.45	21.29	23		
		12	6	21.49	21.40	21.45	23		
		12	13	21.39	21.48	21.27	23		
		25	0	21.45	21.51	21.40	23		
5M	QPSK	Channel	37975	38000	38225	Max. Turn-up (dBm)			
		Frequency (MHz)	38225	38350	38525	25			
		1	12	23.57	23.62	23.51	25		
		1	24	23.25	23.16	23.17	25		
		12	0	22.30	22.40	22.43	24		
60QAM	16QAM	12	6	22.42	22.54	22.31	24		
		12	13	22.32	22.41	22.31	24		
		25	0	22.50	22.44	22.33	24		
		1	0	22.26	22.38	22.37	24		
		1	12	22.54	22.67	22.53	24		
	64QAM	1	24	22.16	22.14	22.08	24		
		12	0	21.45	21.45	21.29	23		
		12	6	21.49	21.40	21.45	23		
		12	13	21.39	21.48	21.27	23		
		25	0	21.45	21.51	21.40	23		

LTE Band 41 (2496 ~ 2690MHz)									
BW	Modulation	RB Size		RB Offset	Low	Low Mid	Mid	High Mid	High
		Channel	Frequency (MHz)						
20M	QPSK	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	22.46	22.29	22.41	22.19	22.23	24
		50	25	22.54	22.56	22.46	22.19	22.23	24
	16QAM	50	50	22.53	22.24	22.41	22.09	22.15	24
		100	0	22.65	22.30	22.52	22.20	22.22	24
		1	0	22.52	22.16	22.45	22.19	22.12	24
		1	50	22.75	22.45	22.68	22.36	22.38	24
		1	99	22.13	22.13	22.18	22.11	22.21	24
60QAM	16QAM	50	0	21.53	21.33	21.48	21.27	21.25	23
		50	25	21.60	21.34	21.50	21.26	21.26	23
		50	50	21.58	21.29	21.42	21.19	21.23	23
		100	0	21.61	21.35	21.49	21.22	21.24	23
		1	0	21.13	21.22	21.28	21.14	21.23	23
	64QAM	1	50	21.38	21.18	21.22	21.17	21.16	23
		1	99	21.18	21.12	21.13	21.09	21.22	23
		50	0	20.47	20.25	20.37	20.18	20.21	22
		50	25	20.52	20.30	20.44	20.20	20.23	22
		50	50	20.51	20.22	20.34	20.17	20.18	22
BW	QPSK	Channel	39725	40175	40625	41075	41525	Max. Turn-up (dBm)	
		Frequency (MHz)	40625	41075	41525	41975	42425	25	
		1	0	23.53	23.12	23.32	23.08	23.11	25
		1	37	23.66	23.36	23.51	23.36	23.41	25
		1	74	23.33	23.07	23.04	23.06	23.05	25
15M	QPSK	36	0	22.34	22.17	22.39	22.10	22.07	24
		36	19	22.50	22.14	22.45	22.15	22.14	24
		36	39	22.41	22.20	22.32	22.08	22.09	24
		75	0	22.52	22.26	22.41	22.17	22.13	24
		1	0	22.42	22.13	22.31	22.11	22.09	24
	16QAM	1	37	22.60	22.36	22.53	22.33	22.36	24
		1	74	22.09	22.05	22.08	22.06	22.20	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

LTE_DSI-4

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LTE Band 2											
BW	Modulation	RB Size	RB Offset	Low	Mid	High					
		Channel	18750	18950	19150	Max. Time-up (dBm)					
20M	QPSK	Frequency (MHz)	1885	1880	1885	1880	1885	1880	1885		
		1	0	17.14	17.02	16.98	16.98	16.98	16.98	16.98	
		1	50	17.42	17.39	17.37	17.37	17.37	17.37	17.37	
		1	99	17.10	16.98	16.98	16.98	16.98	16.98	16.98	
		50	0	17.21	17.21	17.21	17.21	17.21	17.21	17.21	
		50	25	17.27	17.23	17.29	17.29	17.29	17.29	17.29	
		50	50	17.21	17.21	17.24	17.24	17.24	17.24	17.24	
		100	0	17.21	17.21	17.20	17.20	17.20	17.20	17.20	
		1	0	17.23	17.34	17.17	17.15	17.15	17.15	17.15	
		1	50	17.37	17.22	17.28	17.28	17.28	17.28	17.28	
	1	99	17.24	17.26	17.07	17.05	17.05	17.05	17.05		
	16QAM	50	0	17.23	17.30	17.21	17.21	17.21	17.21	17.21	
		50	25	17.24	17.41	17.23	17.23	17.23	17.23	17.23	
		50	50	17.24	17.36	17.11	17.11	17.11	17.11	17.11	
		100	0	17.18	17.36	17.18	17.18	17.18	17.18	17.18	
		64QAM	1	0	17.41	17.36	17.29	17.26	17.26	17.26	17.26
			1	50	17.00	17.20	17.17	17.17	17.17	17.17	17.17
			1	99	17.37	17.34	17.13	17.13	17.13	17.13	17.13
			50	0	17.27	17.30	17.24	17.24	17.24	17.24	17.24
			50	25	17.24	17.23	17.26	17.26	17.26	17.26	17.26
50			50	17.25	17.34	17.01	17.01	17.01	17.01	17.01	
100	0		17.13	17.27	17.21	17.21	17.21	17.21	17.21		
BW	Modulation		Channel	18675	18950	19125	Max. Time-up (dBm)				
QPSK	Frequency (MHz)		18675	1880	1902.5	1902.5	1902.5	1902.5	1902.5		
	1		0	17.14	16.93	16.87	16.87	16.87	16.87	16.87	
	1	37	17.32	17.27	17.28	17.28	17.28	17.28	17.28		
	1	74	17.00	16.91	16.93	16.93	16.93	16.93	16.93		
	36	0	17.13	17.08	17.11	17.11	17.11	17.11	17.11		
	36	19	17.19	17.21	17.17	17.17	17.17	17.17	17.17		
	36	39	17.12	17.08	16.89	16.89	16.89	16.89	16.89		
	75	0	17.24	17.20	17.15	17.15	17.15	17.15	17.15		
	1	0	17.10	17.33	17.07	17.05	17.05	17.05	17.05		
	1	37	17.30	17.17	17.18	17.18	17.18	17.18	17.18		
16QAM	1	74	17.16	17.11	17.05	17.05	17.05	17.05	17.05		
	36	0	17.15	17.23	17.16	17.16	17.16	17.16	17.16		
	36	19	17.22	17.40	17.21	17.21	17.21	17.21	17.21		
	36	39	17.09	17.30	17.01	17.01	17.01	17.01	17.01		
	75	0	17.17	17.23	17.13	17.13	17.13	17.13	17.13		
	64QAM	1	0	17.37	17.32	17.25	17.25	17.25	17.25	17.25	
		1	37	16.95	17.12	17.12	17.12	17.12	17.12	17.12	
		1	74	17.30	17.30	17.06	17.06	17.06	17.06	17.06	
		36	0	17.20	17.15	17.22	17.22	17.22	17.22	17.22	
		36	19	17.27	17.40	17.21	17.21	17.21	17.21	17.21	
36		39	17.19	17.21	17.06	17.06	17.06	17.06	17.06		
75		0	17.14	17.25	16.93	16.93	16.93	16.93	16.93		
75		0	16.98	17.15	17.06	17.06	17.06	17.06	17.06		
BW		Modulation	Channel	18650	18950	19150	Max. Time-up (dBm)				
QPSK		Frequency (MHz)	18650	1880	1905	1905	1905	1905	1905		
	1	0	17.22	16.90	16.86	16.86	16.86	16.86	16.86		
	1	24	17.28	17.28	17.27	17.27	17.27	17.27	17.27		
	1	49	17.05	16.92	16.85	16.85	16.85	16.85	16.85		
	25	0	17.13	17.18	17.10	17.10	17.10	17.10	17.10		
	25	12	17.19	17.22	17.27	17.27	17.27	17.27	17.27		
	25	25	17.07	17.08	16.86	16.86	16.86	16.86	16.86		
	50	0	17.21	17.19	17.08	17.08	17.08	17.08	17.08		
	1	0	17.22	17.25	17.02	17.02	17.02	17.02	17.02		
	1	24	17.22	17.07	17.23	17.23	17.23	17.23	17.23		
16QAM	1	49	17.10	17.23	16.92	16.92	16.92	16.92	16.92		
	25	0	17.22	17.24	17.20	17.20	17.20	17.20	17.20		
	25	12	17.09	17.28	17.22	17.22	17.22	17.22	17.22		
	25	25	17.11	17.35	17.07	17.07	17.07	17.07	17.07		
	50	0	17.16	17.25	17.03	17.03	17.03	17.03	17.03		
	64QAM	1	0	17.34	17.32	17.19	17.19	17.19	17.19	17.19	
		1	24	16.88	17.13	17.15	17.15	17.15	17.15	17.15	
		1	49	17.24	17.23	17.11	17.11	17.11	17.11	17.11	
		25	0	17.24	17.02	17.14	17.14	17.14	17.14	17.14	
		25	12	17.13	17.13	17.24	17.24	17.24	17.24	17.24	
25		25	17.12	17.26	16.95	16.95	16.95	16.95	16.95		
50		0	17.05	17.13	17.10	17.10	17.10	17.10	17.10		
BW		Modulation	Channel	18625	18950	19175	Max. Time-up (dBm)				
QPSK		Frequency (MHz)	18625	1880	1907.5	1907.5	1907.5	1907.5	1907.5		
		1	0	17.17	17.01	16.89	16.89	16.89	16.89	16.89	
	1	12	17.35	17.27	17.27	17.27	17.27	17.27	17.27		
	1	24	17.00	16.84	16.97	16.97	16.97	16.97	16.97		
	12	0	17.15	17.18	17.08	17.08	17.08	17.08	17.08		
	12	6	17.15	17.17	17.19	17.19	17.19	17.19	17.19		
	12	13	17.12	17.08	16.94	16.94	16.94	16.94	16.94		
	25	0	17.24	17.07	17.12	17.12	17.12	17.12	17.12		
	1	0	17.08	17.27	17.02	17.02	17.02	17.02	17.02		
	1	12	17.22	17.11	17.23	17.23	17.23	17.23	17.23		
16QAM	1	24	17.16	17.17	17.03	17.03	17.03	17.03	17.03		
	12	0	17.12	17.26	17.30	17.30	17.30	17.30	17.30		
	12	6	17.10	17.35	17.11	17.11	17.11	17.11	17.11		
	12	13	17.09	17.36	17.02	17.02	17.02	17.02	17.02		
	25	0	17.15	17.36	17.07	17.07	17.07	17.07	17.07		
	64QAM	1	0	17.26	17.21	17.27	17.27	17.27	17.27	17.27	
		1	12	16.88	17.14	17.08	17.08	17.08	17.08	17.08	
		1	24	17.25	17.21	17.10	17.10	17.10	17.10	17.10	
		12	0	17.16	17.27	17.21	17.21	17.21	17.21	17.21	
		12	6	17.13	17.16	17.18	17.18	17.18	17.18	17.18	
12		13	17.12	17.29	16.94	16.94	16.94	16.94	16.94		
25		0	17.09	17.23	17.20	17.20	17.20	17.20	17.20		
BW		Modulation	Channel	18615	18950	19195	Max. Time-up (dBm)				
QPSK		Frequency (MHz)	18615	1880	1908.5	1908.5	1908.5	1908.5	1908.5		
		1	0	17.17	16.99	16.86	16.86	16.86	16.86	16.86	
	1	7	17.35	17.37	17.24	17.24	17.24	17.24	17.24		
	1	14	17.01	16.94	16.84	16.84	16.84	16.84	16.84		
	8	0	17.07	17.19	17.11	17.11	17.11	17.11	17.11		
	8	3	17.13	17.10	17.16	17.16	17.16	17.16	17.16		
	8	7	17.11	17.20	16.89	16.89	16.89	16.89	16.89		
	15	0	17.16	17.11	17.06	17.06	17.06	17.06	17.06		
	1	0	17.20	17.31	17.08	17.08	17.08	17.08	17.08		
	1	7	17.36	17.09	17.20	17.20	17.20	17.20	17.20		
16QAM	1	14	17.19	17.16	16.97	16.97	16.97	16.97	16.97		
	8	0	17.12	17.29	17.18	17.18	17.18	17.18	17.18		
	8	3	17.19	17.30	17.15	17.15	17.15	17.15	17.15		
	8	7	17.12	17.34	17.03	17.03	17.03	17.03	17.03		
	15	0	17.13	17.26	17.08	17.08	17.08	17.08	17.08		
	64QAM	1	0	17.33	17.21	17.25	17.25	17.25	17.25	17.25	
		1	7	16.93	17.05	17.15	17.15	17.15	17.15	17.15	
		1	14	17.22	17.26	17.05	17.05	17.05	17.05	17.05	
		8	0	17.22	17.27	17.13	17.13	17.13	17.13	17.13	
		8	3	17.11	17.16	17.18	17.18	17.18	17.18	17.18	
8		7	17.24	17.23	16.91	16.91	16.91	16.91	16.91		
15		0	16.98	17.17	17.10	17.10	17.10	17.10	17.10		
BW		Modulation	Channel	18607	18950	19193	Max. Time-up (dBm)				
QPSK		Frequency (MHz)	18607	1880	1908.5	1908.5	1908.5	1908.5	1908.5		
		1	0	17.17	16.89	16.86	16.86	16.86	16.86	16.86	
	1	2	17.40	17.31	17.32	17.32	17.32	17.32	17.32		
	1	5	16.99	16.86	16.89	16.89	16.89	16.89	16.89		
	3	0	17.16	17.20	17.17	17.17	17.17	17.17	17.17		
	3	1	17.13	17.16	17.20	17.20	17.20	17.20	17.20		
	3	3	17.20	17.15	16.92	16.92	16.92	16.92	16.92		
	6	0	17.21	17.18	17.17	17.17	17.17	17.17	17.17		
	1	0	17.15	17.32	17.06	17.06	17.06	17.06	17.06		
	1	2	17.25	17.20	17.23	17.23	17.23	17.23	17.23		
1.4M	1	5	17.19	17.22	17.02	17.02	17.02	17.02	17.02		
	3	0	17.19	17.18	17.18	17.18	17.18	17.18	17.18		
	3	1	17.21	17.32	17.18	17.18	17.18	17.18	17.18		
	3	3	17.12	17.40	16.97	16.97	16.97	16.97	16.97		
	6	0	17.11	17.31	17.03	17.03	17.03	17.03	17.03		
	64QAM	1	0	17.39	17.23	17.28	17.28	17.28	17.28	17.28	
		1	2	16.98	17.14	17.10	17.10	17.10	17.10	17.10	
		1	5	17.29	17.25	16.98	16.98	16.98	16.98	16.98	
		3	0	17.18	17.15	17.14	17.14	17.14	17.14	17.14	
		3	1	17.22	17.13	17.14	17.14	17.14	17.14	17.14	
3		3	17.21	17.33	16.95	16.95	16.95	16.95	16.95		
6		0	17.02	17.15	17.20	17.20	17.20	17.20	17.20		

LTE Band 7							
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20860	21100	21350	
20M	QPSK	Frequency (MHz)		20860	21100	21350	
		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	17.36	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
	16QAM	1	99	17.29	17.09	17.04	18.5
		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	17.06	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	16.96	18.5
		50	50	17.32	16.84	16.90	18.5
		100	0	17.17	16.99	16.93	18.5
15M	QPSK	Channel		20825	21100	21375	Max. Tune-up (dBm)
		Frequency (MHz)		20825	21100	21375	
		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	17.01	18.5
		36	39	17.21	17.10	16.97	18.5
		75	0	17.26	17.18	17.04	18.5
	16QAM	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
		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	16.94	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	16.94	16.84	18.5
10M	QPSK	Channel		20880	21100	21480	Max. Tune-up (dBm)
		Frequency (MHz)		20880	21100	21480	
		1	0	17.18	17.03	16.92	18.5
		1	24	17.35	17.13	16.96	18.5
		1	49	16.98	16.80	17.05	18.5
		25	0	17.11	17.04	16.83	18.5
		25	12	17.14	17.13	17.03	18.5
		25	25	17.16	17.17	17.06	18.5
		50	0	17.31	17.20	17.00	18.5
	16QAM	1	0	17.16	17.15	17.09	18.5
		1	24	17.06	17.05	17.12	18.5
		1	49	17.15	17.08	16.89	18.5
		25	0	17.00	16.93	16.89	18.5
		25	12	17.11	16.75	16.79	18.5
		25	25	17.13	17.10	17.04	18.5
		50	0	17.01	16.84	16.88	18.5
	64QAM	1	0	17.03	17.07	16.87	18.5
		1	24	17.27	16.84	17.05	18.5
		1	49	16.92	17.06	17.02	18.5
		25	0	16.88	16.79	16.97	18.5
		25	12	17.15	16.98	16.88	18.5
		25	25	17.23	16.86	16.85	18.5
		50	0	17.02	16.86	16.91	18.5
5M	QPSK	Channel		20775	21100	21425	Max. Tune-up (dBm)
		Frequency (MHz)		20775	21100	21425	
		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	16.98	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
	16QAM	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
		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	16.91	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

LTE Band 13							
BW	Modulation	RB Size	RB Offset	Mid			Max. Tune-up (dBm)
		Channel		23209			
10M	QPSK	Frequency (MHz)		762			
		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
	16QAM	1	24	23.86			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
	64QAM	1	0	22.55			23.5
		1	24	22.77			23.5
		1	49	22.56			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	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
		1	12	24.40	24.42	24.35	25.5
		1	24	24.26	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	23.61	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		26765	26865	26965		
				Frequency (MHz)	811.5	811.5	841.5	
15M	QPSK	1	0	24.19	24.08	24.03	25.5	
		1	37	24.44	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	23.39	23.33	24.5	
		1	37	23.70	23.60	23.58	24.5	
	16QAM	1	74	23.42	23.34	23.23	24.5	
		36	0	22.34	22.32	22.21	23.5	
		36	19	22.40	22.32	22.24	23.5	
36		39	22.33	22.28	22.16	23.5		
75		0	22.36	22.33	22.19	23.5		
1		0	22.45	22.46	21.98	23.5		
64QAM	1	37	22.64	22.49	21.77	23.5		
	1	74	22.43	22.51	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		
10M	QPSK	Channel		26765	26865	26965	Max. Tune-up (dBm)	
		Frequency (MHz)	819	819.5	844			
		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	23.06	24.5	
		25	12	23.20	23.30	23.16	24.5	
		25	25	23.10	23.16	23.05	24.5	
		50	0	23.18	23.22	23.21	24.5	
	16QAM	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	
25		0	22.27	22.16	22.19	23.5		
25		12	22.39	22.28	22.23	23.5		
25		25	22.38	22.23	22.07	23.5		
64QAM	50	0	22.35	22.21	22.16	23.5		
	1	0	22.35	22.29	21.97	23.5		
	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	21.35	21.23	21.05	22.5		
5M	QPSK	25	25	21.13	21.18	21.08	22.5	
		50	0	21.28	21.19	21.14	22.5	
		Channel		26715	26865	27015	Max. Tune-up (dBm)	
		Frequency (MHz)	816.5	831.5	846.5			
		1	0	24.04	23.95	24.01	25.5	
		1	12	24.37	24.30	24.18	25.5	
		1	24	24.15	23.91	23.88	25.5	
		12	0	23.17	23.19	23.14	24.5	
		12	6	23.25	23.22	23.20	24.5	
	16QAM	12	13	23.16	23.16	23.14	24.5	
		25	0	23.21	23.21	23.07	24.5	
		1	0	23.41	23.34	23.23	24.5	
1		12	23.39	23.47	23.53	24.5		
1		24	23.39	23.19	23.11	24.5		
12		0	22.2	22.27	22.13	23.5		
64QAM	12	6	22.38	22.24	22.21	23.5		
	12	13	22.25	22.24	22.14	23.5		
	25	0	22.30	22.21	22.05	23.5		
	1	0	22.32	22.31	21.96	23.5		
	1	12	22.55	22.36	22.12	23.5		
	1	24	22.42	22.36	21.88	23.5		
BW	QPSK	12	0	21.17	21.24	21.10	22.5	
		12	6	21.26	21.32	21.15	22.5	
		12	13	21.13	21.24	21.08	22.5	
		25	0	21.17	21.22	21.12	22.5	
		Channel		26765	26865	27025	Max. Tune-up (dBm)	
		Frequency (MHz)	816.5	831.5	847.5			
		1	0	24.08	23.99	23.95	25.5	
		1	7	24.17	24.22	24.24	25.5	
		1	14	24.17	23.95	23.94	25.5	
	3M	QPSK	8	0	23.20	23.26	23.16	24.5
			8	3	23.27	23.22	23.24	24.5
			8	7	23.25	23.18	23.07	24.5
15			0	23.18	23.20	23.19	24.5	
1			0	23.42	23.38	23.32	24.5	
1			7	23.63	23.45	23.51	24.5	
1			14	23.41	23.24	23.22	24.5	
8			0	22.20	22.18	22.20	23.5	
8			3	22.29	22.22	22.11	23.5	
16QAM		8	7	22.22	22.15	22.13	23.5	
		15	0	22.24	22.28	22.16	23.5	
		1	0	22.44	22.47	21.88	23.5	
	1	7	22.63	22.43	22.02	23.5		
	1	14	22.38	22.48	21.83	23.5		
	8	0	21.16	21.31	21.20	22.5		
64QAM	8	3	21.21	21.31	21.15	22.5		
	8	7	21.21	21.21	21.12	22.5		
	15	0	21.19	21.20	21.20	22.5		
	Channel		26875	26965	27033	Max. Tune-up (dBm)		
	Frequency (MHz)	816.7	831.5	848.3				
	1	0	24.16	24.01	24.01	25.5		
1.4M	QPSK	1	2	24.44	24.23	24.16	25.5	
		1	5	24.06	24.04	23.98	25.5	
		3	0	24.05	24.07	23.92	25.5	
		1	2	24.02	23.96	23.90	25.5	
		3	3	24.07	24.04	23.89	25.5	
		6	0	23.20	23.24	23.08	24.5	
		1	0	23.39	23.32	23.29	24.5	
		1	2	23.58	23.48	23.51	24.5	
		1	5	23.27	23.24	23.13	24.5	
	16QAM	3	0	23.04	23.03	22.97	24.5	
		3	3	23.11	23.06	22.99	24.5	
		3	3	23.10	23.05	22.87	24.5	
6		0	22.26	22.31	22.15	23.5		
1		0	22.33	22.44	21.95	23.5		
1		2	22.57	22.39	22.04	23.5		
64QAM	1	5	22.35	22.44	21.80	23.5		
	3	0	22.02	22.08	21.88	23.5		
	3	3	22.08	22.08	21.93	23.5		
	3	3	21.92	21.95	21.96	23.5		
	6	0	21.28	21.14	21.14	22.5		

LTE Band 38									
BW	Modulation	RB Size	RB Offset	Low	Mid	High			
		Channel		3795	3805	3815			
		Frequency (MHz)	20M	30M	30M	30M	Max. Tune-up (dBm)		
20M	QPSK	1	0	19.88	20.08	19.98	21.5		
		1	50	20.20	20.26	20.23	21.5		
		1	99	19.86	19.82	19.82	21.5		
		50	0	19.84	19.87	19.88	21.5		
		50	25	20.07	19.98	19.89	21.5		
	16QAM	50	50	19.84	19.86	19.79	21.5		
		100	0	20.00	20.05	19.88	21.5		
		1	0	19.79	19.92	19.90	21.5		
		1	50	20.12	20.06	20.08	21.5		
		1	99	19.88	19.94	20.03	21.5		
	64QAM	50	0	19.97	19.97	20.00	21.5		
		50	25	20.15	20.13	20.13	21.5		
		50	50	20.06	20.12	20.08	21.5		
		100	0	20.18	20.25	20.11	21.5		
		1	0	20.19	19.88	20.04	21.5		
15M	QPSK	1	0	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		
	16QAM	100	0	20.24	20.19	20.12	21.5		
		1	0	19.85	19.80	19.90	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		
	64QAM	36	19	19.96	19.93	19.80	21.5		
		36	39	19.98	19.97	19.87	21.5		
		75	0	19.97	19.95	19.87	21.5		
		1	0	19.68	19.81	19.89	21.5		
		1	37	19.99	20.04	19.94	21.5		
10M	QPSK	1	0	19.84	19.88	19.97	21.5		
		1	74	19.84	19.88	19.97	21.5		
		36	0	19.83	19.87	19.96	21.5		
		36	19	20.02	20.01	20.00	21.5		
		36	39	19.99	19.99	20.00	21.5		
	16QAM	75	0	20.05	20.10	20.03	21.5		
		1	0	20.06	19.77	19.92	21.5		
		1	37	20.07	20.03	19.92	21.5		
		1	74	19.98	20.07	20.02	21.5		
		36	0	19.94	20.06	20.00	21.5		
	64QAM	36	19	20.13	20.09	20.11	21.5		
		36	39	20.14	20.10	20.02	21.5		
		75	0	20.17	20.17	20.11	21.5		
5M	QPSK	Channel		3795	3805	3815	Max. Tune-up (dBm)		
		Frequency (MHz)	20M	30M	30M	30M			
		1	0	19.83	20.01	19.93	21.5		
		1	24	20.06	20.20	20.22	21.5		
		1	49	19.85	19.80	19.69	21.5		
	16QAM	25	0	19.76	19.83	19.85	21.5		
		25	12	19.96	19.97	19.79	21.5		
		25	25	19.74	19.76	19.67	21.5		
		50	0	19.87	19.92	19.87	21.5		
		1	0	19.73	19.90	19.84	21.5		
	64QAM	1	24	20.06	20.01	19.97	21.5		
		1	49	19.80	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		
1.4M	QPSK	Channel		3775	3805	3825	Max. Tune-up (dBm)		
		Frequency (MHz)	20M	30M	30M	30M			
		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		
	16QAM	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		
		25	0	19.86	20.02	19.80	21.5		
		1	0	19.65	19.87	19.83	21.5		
	64QAM	1	12	20.08	19.95	20.05	21.5		
		1	24	19.80	19.81	20.01	21.5		
		12	6	19.93	19.73	19.86	21.5		
		12	13	20.08	20.08	20.11	21.5		
		12	13	19.92	20.08	19.99	21.5		

LTE Band 41 (2496 - 2690MHz)										
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	Max. Tune-up (dBm)	
		Channel		2615	4015	4065	4155	4195		
		Frequency (MHz)	20M	30M	30M	30M	30M	30M		
20M	QPSK	1	0	19.74	19.39	19.51	19.30	19.27	21	
		1	50	19.86	19.50	19.74	19.44	19.47	21	
		1	99	19.55	19.31	19.33	19.39	19.36	21	
		50	0	19.69	19.44	19.69	19.40	19.47	21	
		50	25	19.76	19.45	19.72	19.40	19.49	21	
	16QAM	50	50	19.53	19.27	19.47	19.31	19.33	21	
		100	0	19.67	19.56	19.64	19.35	19.43	21	
		1	0	19.74	19.36	19.54	19.43	19.34	21	
		1	50	19.64	19.63	19.53	19.62	19.52	21	
		1	99	19.25	19.25	19.36	19.35	19.36	21	
	64QAM	50	0	19.66	19.48	19.62	19.53	19.41	21	
		50	25	19.84	19.48	19.68	19.51	19.51	21	
		50	50	19.78	19.53	19.56	19.35	19.37	21	
		100	0	19.80	19.62	19.65	19.36	19.51	21	
		1	0	19.31	19.43	19.47	19.31	19.47	21	
BW	Modulation	Channel		2615	4015	4065	4155	4195	Max. Tune-up (dBm)	
		Frequency (MHz)	20M	30M	30M	30M	30M	30M		
		1	0	19.64	19.25	19.49	19.17	19.17	21	
	QPSK	1	37	19.75	19.39	19.69	19.34	19.33	21	
		1	74	19.44	19.16	19.25	19.34	19.27	21	
		36	0	19.66	19.43	19.65	19.37	19.37	21	
		36	19	19.69	19.30	19.60	19.28	19.44	21	
		36	39	19.38	19.37	19.45	19.18	19.25	21	
		75	0	19.62	19.43	19.54	19.34	19.41	21	
		1	0	19.68	19.25	19.45	19.36	19.24	21	
		1	37	19.53	19.52	19.44	19.58	19.43	21	
		1	74	19.12	19.11	19.25	19.28	19.30	21	
		36	0	19.62	19.44	19.58	19.38	19.30	21	
		36	19	19.61	19.40	19.58	19.38	19.47	21	
		36	39	19.71	19.45	19.51	19.33	19.23	21	
75		0	19.70	19.47	19.56	19.27	19.50	21		
15M		QPSK	1	0	19.30	19.40	19.41	19.24	19.41	21
			1	37	19.54	19.29	19.44	19.28	19.32	21
	1		74	19.38	19.19	19.26	19.21	19.36	21	
	36		0	19.55	19.48	19.52	19.24	19.30	21	
	36		19	19.59	19.54	19.57	19.39	19.38	21	
	16QAM	36	39	19.62	19.24	19.36	19.22	19.24	21	
		75	0	19.76	19.35	19.54	19.39	19.27	21	
		1	0	19.38	19.10	19.26	19.21	19.36	21	
		36	0	19.55	19.48	19.52	19.24	19.30	21	
		36	19	19.59	19.54	19.57	19.39	19.38	21	
	10M	QPSK	36	39	19.62	19.24	19.36	19.22	19.24	21
			75	0	19.76	19.35	19.54	19.39	19.27	21
			1	0	19.38	19.10	19.26	19.21	19.36	21
			36	0	19.55	19.48	19.52	19.24	19.30	21
			36	19	19.59	19.54	19.57	19.39	19.38	21
16QAM		36	39	19.62	19.24	19.36	19.22	19.24	21	
		75	0	19.76	19.35	19.54	19.39	19.27	21	
		1	0	19.38	19.10	19.26	19.21	19.36	21	
		36	0	19.55	19.48	19.52	19.24	19.30	21	
		36	19	19.59	19.54	19.57	19.39	19.38	21	
5M		QPSK	36	39	19.62	19.24	19.36	19.22	19.24	21
			75	0	19.76	19.35	19.54	19.39	19.27	21
			1	0	19.38	19.10	19.26	19.21	19.36	21
			36	0	19.55	19.48	19.52	19.24	19.30	21
			36	19	19.59	19.54	19.57	19.39	19.38	21
	16QAM	36	39	19.62	19.24	19.36	19.22	19.24	21	
		75	0	19.76	19.35	19.54	19.39	19.27	21	
		1	0	19.38	19.10	19.26	19.21	19.36	21	
		36	0	19.55	19.48	19.52	19.24	19.30	21	
		36	19	19.59	19.54	19.57	19.39	19.38	21	
	BW	Modulation	Channel		2615	4015	4065	4155	4195	Max. Tune-up (dBm)
			Frequency (MHz)	20M	30M	30M	30M	30M	30M	
			1	0	19.61	19.37	19.40	19.17	19.26	21
		QPSK	1	12	19.85	19.37	19.68	19.29	19.42	21
			1	24	19.45	19.19	19.18	19.37	19.42	21
12			0	19.84	19.39	19.48	19.28	19.42	21	
12			6	19.63	19.42	19.63	19.28	19.36	21	
12			13	19.42	19.31	19.49	19.26	19.28	21	
25			0	19.57	19.49	19.60	19.26	19.36	21	
1			0	19.67	19.32	19.49	19.37	19.31	21	
12			0	19.67	19.28	19.41	19.32	19.41	21	
1			24	19.10	19.14	19.29	19.26	19.24	21	
12			0	19.56	19.33	19.58	19.40	19.28	21	
12			6	19.76	19.45	19.58	19.50	19.45	21	
12			13	19.65	19.52	19.47	19.32	19.28	21	
25	0		19.77	19.25	19.41	19.28	19.38	21		
1	0		19.28	19.40	19.39	19.16	19.32	21		
64QAM	1		12	19.46	19.37	19.32	19.33	19.24	21	
	1	24	19.38	19.19	19.32	19.25	19.35	21		
	12	0	19.55	19.36	19.61	19.25	19.35	21		
	12	6	19.44	19.49	19.63	19.44	19.38	21		
	12	13	19.58	19.26	19.45	19.24	19.18	21		
	25	0	19.77	19.30	19.68	19.43	19.24	21		

Default Power					
2.4GHz WLAN	Ant2				
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 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	14.05	15.50
5GHz WLAN					
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	36	5180	13.01	14.50
		40	5200	13.19	14.50
		44	5220	13.11	14.50
		48	5240	13.24	14.50
	802.11n-HT20 MCS0	36	5180	13.06	14.50
		40	5200	13.15	14.50
		44	5220	13.03	14.50
		48	5240	13.08	14.50
	802.11n-HT40 MCS0	36	5180	13.13	14.50
		46	5230	13.14	14.50
		36	5180	13.18	14.50
		40	5200	13.01	14.50
	802.11ac-VHT20 MCS0	44	5220	13.09	14.50
		48	5240	13.11	14.50
	802.11ac-VHT40 MCS0	36	5190	13.09	14.50
		46	5230	13.16	14.50
		42	5210	13.70	14.50
802.11ac-VHT80 MCS0		42	5210	13.73	14.50
5GHz WLAN					
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	52	5260	13.34	14.50
		56	5280	13.15	14.50
		60	5300	13.06	14.50
		64	5320	13.21	14.50
	802.11n-HT20 MCS0	52	5260	13.17	14.50
		56	5280	13.11	14.50
		60	5300	13.03	14.50
		64	5320	13.18	14.50
	802.11n-HT40 MCS0	54	5270	13.10	14.50
		62	5310	13.10	14.50
		52	5260	13.03	14.50
		56	5280	13.12	14.50
	802.11ac-VHT20 MCS0	60	5300	13.07	14.50
		64	5320	13.34	14.50
	802.11ac-VHT40 MCS0	54	5270	13.23	14.50
		62	5310	13.46	14.50
		58	5290	13.29	14.50
5GHz WLAN					
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	100	5500	13.34	14.50
		116	5580	13.04	14.50
		124	5620	13.21	14.50
		132	5660	13.17	14.50
		140	5700	13.43	14.50
		144	5720	13.28	14.50
	802.11n-HT20 MCS0	100	5500	13.27	14.50
		116	5580	13.28	14.50
		124	5620	13.22	14.50
		132	5660	13.18	14.50
		140	5700	13.31	14.50
		144	5720	13.23	14.50
	802.11n-HT40 MCS0	102	5510	13.20	14.50
		110	5550	13.32	14.50
		126	5630	13.14	14.50
		134	5670	13.28	14.50
		142	5710	13.27	14.50
		100	5500	13.35	14.50
	802.11ac-VHT20 MCS0	116	5580	13.32	14.50
		124	5620	13.21	14.50
		132	5660	13.12	14.50
		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
		142	5710	13.18	14.50
		106	5530	13.34	14.50
		122	5610	13.38	14.50
	802.11ac-VHT80 MCS0	138	5690	13.42	14.50
5GHz WLAN					
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	149	5745	13.37	14.50
		157	5785	12.99	14.50
		165	5825	13.25	14.50
		149	5745	13.13	14.50
	802.11n-HT20 MCS0	157	5785	13.31	14.50
		165	5825	13.19	14.50
		151	5765	13.37	14.50
	802.11n-HT40 MCS0	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
	802.11ac-VHT40 MCS0	151	5765	13.20	14.50
		159	5795	13.24	14.50
	802.11ac-VHT80 MCS0	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
		39	2480	1.09	3.00
	2M	1	2404	0.86	2.00
		19	2440	1.14	3.00
		38	2478	1.47	3.00
	S2	0	2402	0.49	2.00
		19	2440	0.98	2.00
		39	2480	1.70	3.00
	S8	0	2402	0.61	2.00
		19	2440	1.13	3.00
		39	2480	1.87	3.00
BREDR	GFSK	0	2402	8.65	10.00
		39	2441	6.50	8.00
		78	2480	10.67	12.00
	DQPSK	0	2402	6.86	8.00
		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
		78	2480	8.14	10.00

< Receiver Power / DSI-1 >					
2.4GHz WLAN		Ant2			
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11b 1Mbps	1	2412	13.09	14.50
		6	2437	13.38	14.50
		11	2462	13.48	14.50
	802.11g 6Mbps	1	2412	13.50	13.50
		6	2437	13.50	13.50
		11	2462	13.50	13.50
	802.11n-HT20 MCS0	1	2412	12.50	12.50
		6	2437	12.50	12.50
		11	2462	12.50	12.50
11		2462	12.50	12.50	
5GHz WLAN		Ant2			
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	36	5180	9.50	9.50
		40	5200	9.50	9.50
		44	5220	9.50	9.50
		48	5240	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
		48	5240	9.50	9.50
	802.11n-HT40 MCS0	36	5180	9.50	9.50
		46	5230	9.50	9.50
		36	5180	9.50	9.50
		40	5200	9.50	9.50
	802.11ac-VHT20 MCS0	44	5220	9.50	9.50
		48	5240	9.50	9.50
	802.11ac-VHT40 MCS0	36	5180	9.50	9.50
		46	5230	9.50	9.50
		42	5210	8.87	9.50
42		5210	8.87	9.50	
5GHz WLAN		Ant2			
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	52	5260	9.50	9.50
		56	5280	9.50	9.50
		60	5300	9.50	9.50
		64	5320	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
		64	5320	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
		56	5280	9.50	9.50
	802.11ac-VHT20 MCS0	60	5300	9.50	9.50
		64	5320	9.50	9.50
	802.11ac-VHT40 MCS0	54	5270	8.37	9.50
		62	5310	8.81	9.50
		58	5290	9.50	9.50
		58	5290	9.50	9.50
	5GHz WLAN		Ant2		
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	100	5500	9.50	9.50
		116	5580	9.50	9.50
		124	5620	9.50	9.50
		132	5660	9.50	9.50
		140	5700	9.50	9.50
		144	5720	9.50	9.50
	802.11n-HT20 MCS0	100	5500	9.50	9.50
		116	5580	9.50	9.50
		124	5620	9.50	9.50
		132	5660	9.50	9.50
		140	5700	9.50	9.50
		144	5720	9.50	9.50
	802.11n-HT40 MCS0	102	5510	9.50	9.50
		110	5550	9.50	9.50
		126	5630	9.50	9.50
		134	5670	9.50	9.50
		142	5710	9.50	9.50
		100	5500	9.50	9.50
	802.11ac-VHT20 MCS0	116	5580	9.50	9.50
		124	5620	9.50	9.50
		132	5660	9.50	9.50
		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	9.50	9.50	
	108	5530	8.86	9.50	
	122	5610	8.43	9.50	
	138	5690	8.51	9.50	
5GHz WLAN		Ant2			
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	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	155	5765	9.50	9.50
		159	5795	1.13	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	
155	5775	8.76	9.50	9.50	
Ant2		Ant2			
BT	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
BLE	1M	0	2402	0.46	2.00
		19	2440	0.59	2.00
		39	2480	1.69	3.00
		1	2404	0.86	2.00
		21	2442	1.13	2.00
		38	2478	1.47	3.00
	S2	0	2402	0.49	2.00
		19	2440	0.58	2.00
	S8	39	2480	1.70	3.00
		0	2402	0.61	2.00
19		2440	0.86	2.00	
39		2480	1.87	3.00	
BREDR	GFSK	0	2402	8.65	10.00
		39	2441	6.50	8.00
	78	2480	16.87	12.00	
	DQPSK	0	2402	6.60	8.00
		39	2441	3.47	6.00
	80PSK	78	2480	8.18	10.00
		0	2402	8.86	10.00
	80PSK	39	2441	3.48	5.00
78		2480	8.14	10.00	