



In Collaboration with

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CALIBRATION LABORATORY

Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
 Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504
 E-mail: cttl@chinattl.com http://www.chinattl.cn

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	35.1 ± 6 %	5.18 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.09 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	80.8 mW / g ± 24.4 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.32 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	23.2 mW / g ± 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	34.9 ± 6 %	5.37 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.70 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	76.9 mW / g ± 24.4 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.17 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	21.6 mW / g ± 24.2 % (k=2)



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Body TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.36 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.4 ± 6 %	5.32 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	----	----

SAR result with Body TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.46 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	74.4 mW /g ± 24.4 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	Condition	
SAR measured	100 mW input power	2.10 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	20.9 mW /g ± 24.2 % (k=2)

Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.7 ± 6 %	5.79 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	----	----

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.73 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	77.1 mW /g ± 24.4 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	Condition	
SAR measured	100 mW input power	2.16 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	21.5 mW /g ± 24.2 % (k=2)



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Body TSL parameters at 5750 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.3	5.94 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.5 ± 6 %	5.93 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	----	----

SAR result with Body TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.43 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	74.3 mW /g ± 24.4 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	Condition	
SAR measured	100 mW input power	2.08 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	20.8 mW /g ± 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	50.3 Ω - 9.42j Ω
Return Loss	- 20.6dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	58.1 Ω - 7.15j Ω
Return Loss	- 20.0dB

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	53.5 Ω - 7.66j Ω
Return Loss	- 21.8dB

Antenna Parameters with Body TSL at 5250 MHz

Impedance, transformed to feed point	49.5 Ω - 7.40j Ω
Return Loss	- 22.6dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	58.0 Ω - 6.37j Ω
Return Loss	- 20.5dB

Antenna Parameters with Body TSL at 5750 MHz

Impedance, transformed to feed point	54.5 Ω - 7.07j Ω
Return Loss	- 21.9dB



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General Antenna Parameters and Design

Electrical Delay (one direction)	1.065 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: 07.27.2018

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1167

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

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.822$ S/m; $\epsilon_r = 35.92$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5600$ MHz; $\sigma = 5.184$ S/m; $\epsilon_r = 35.14$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5750$ MHz; $\sigma = 5.365$ S/m; $\epsilon_r = 34.88$; $\rho = 1000$ kg/m³,

Phantom section: Center Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7464; ConvF(5.68, 5.68, 5.68) @ 5250 MHz; Calibrated: 9/12/2017, ConvF(4.98, 4.98, 4.98) @ 5600 MHz; Calibrated: 9/12/2017, ConvF(5.04, 5.04, 5.04) @ 5750 MHz; Calibrated: 9/12/2017,
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1524; Calibrated: 9/13/2017
- Phantom: MFP_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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 = 65.09 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 32.4 W/kg
SAR(1 g) = 7.69 W/kg; SAR(10 g) = 2.2 W/kg
Maximum value of SAR (measured) = 18.0 W/kg

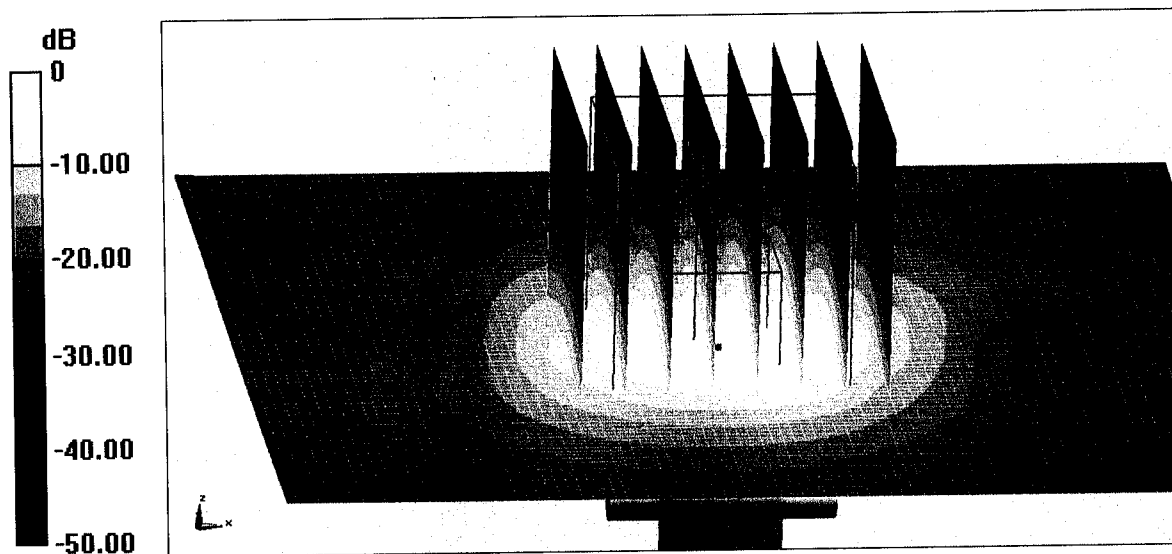
Dipole Calibration /Pin=100mW, d=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 63.53 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 36.2 W/kg
SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.32 W/kg
Maximum value of SAR (measured) = 19.7 W/kg

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 = 63.79 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 36.2 W/kg
SAR(1 g) = 7.7 W/kg; SAR(10 g) = 2.17 W/kg
Maximum value of SAR (measured) = 19.0 W/kg



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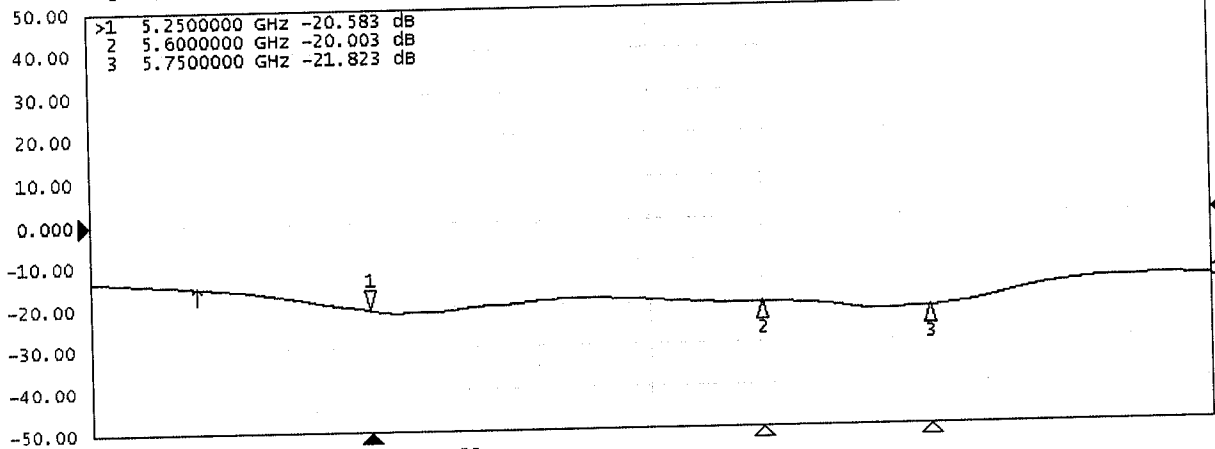
0 dB = 19.0 W/kg = 12.79 dBW/kg



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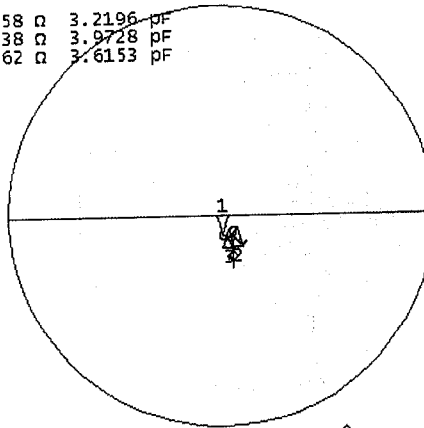
Impedance Measurement Plot for Head TSL

Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]



Tr2 S11 Smith (R+jX) scale 1.000U [F1 Del]

>1	5.2500000 GHz	50.314 Ω	-9.4158 Ω	3.2196 pF
2	5.6000000 GHz	58.136 Ω	-7.1538 Ω	3.9728 pF
3	5.7500000 GHz	53.485 Ω	-7.6562 Ω	3.6153 pF



1 5.2500000 GHz

5.7500000 GHz

Cor



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Date: 08.02.2018

DASY5 Validation Report for Body TSL

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1167

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

Medium parameters used: $f = 5250$ MHz; $\sigma = 5.316$ S/m; $\epsilon_r = 48.42$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5600$ MHz; $\sigma = 5.789$ S/m; $\epsilon_r = 47.7$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5750$ MHz; $\sigma = 5.926$ S/m; $\epsilon_r = 48.45$; $\rho = 1000$ kg/m³,

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7464; ConvF(5.29, 5.29, 5.29) @ 5250 MHz; Calibrated: 9/12/2017, ConvF(4.5, 4.5, 4.5) @ 5600 MHz; Calibrated: 9/12/2017, ConvF(4.59, 4.59, 4.59) @ 5750 MHz; Calibrated: 9/12/2017,
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1524; Calibrated: 9/13/2017
- Phantom: MFP_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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 = 64.14 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 31.9 W/kg
SAR(1 g) = 7.46 W/kg; SAR(10 g) = 2.1 W/kg
Maximum value of SAR (measured) = 17.6 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 = 62.32 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 36.3 W/kg
SAR(1 g) = 7.73 W/kg; SAR(10 g) = 2.16 W/kg
Maximum value of SAR (measured) = 19.1 W/kg

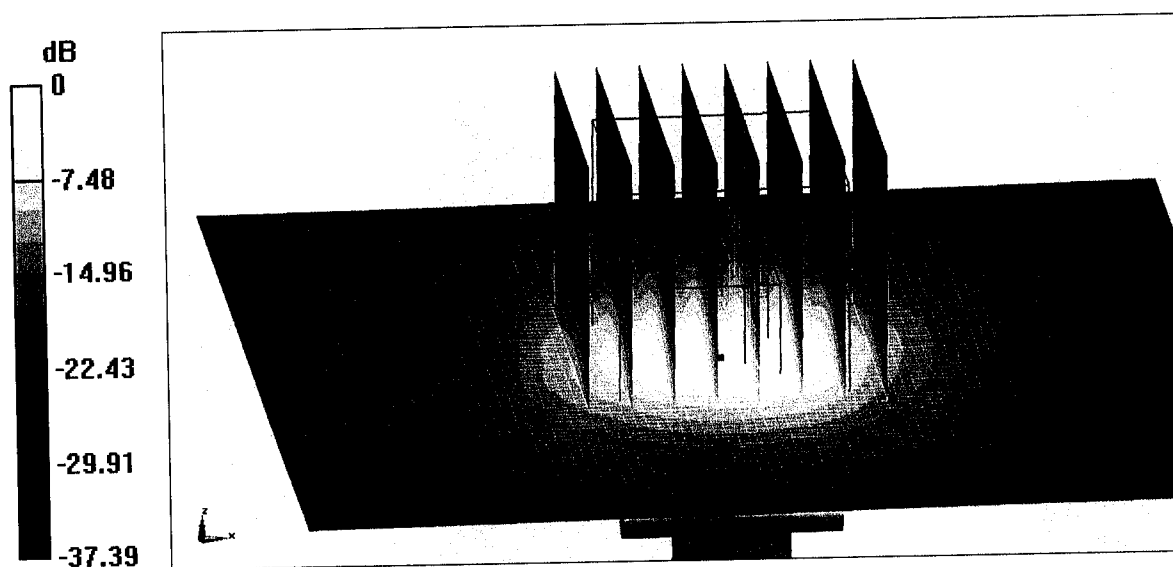
Dipole Calibration /Pin=100mW, d=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 63.99 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 35.2 W/kg
SAR(1 g) = 7.43 W/kg; SAR(10 g) = 2.08 W/kg
Maximum value of SAR (measured) = 18.0 W/kg



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0 dB = 18.0 W/kg = 12.55 dBW/kg



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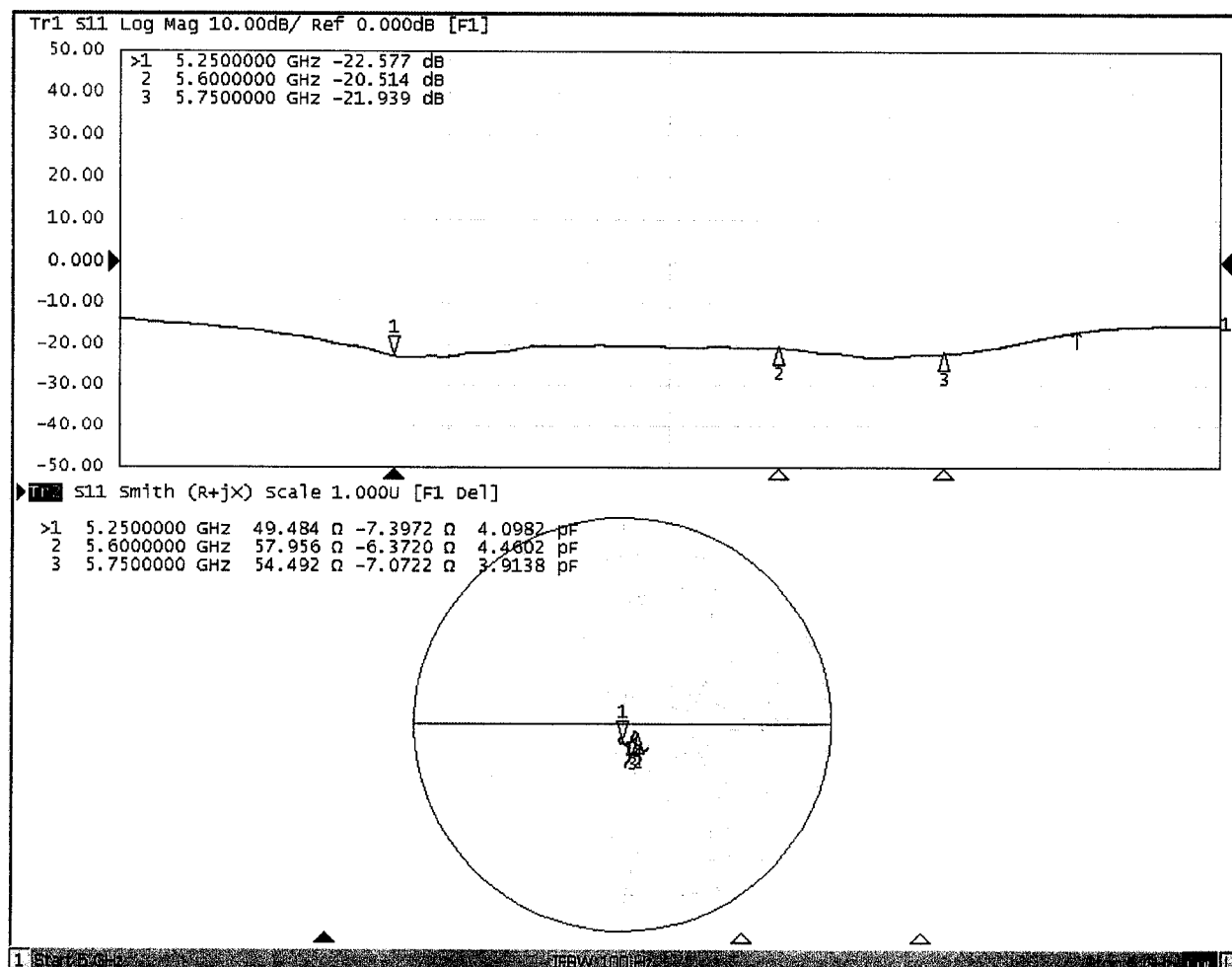
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Impedance Measurement Plot for Body TSL





D5GHzV3, Serial No. 1167 Extended Dipole Calibrations

Referring to KDB 865664 D01 v01r02, 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.

5250MHz

D5GHzV3 – serial no. 1167												
	5250 Head						5250 Body					
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2018.08.03	-20.6		50.3		-9.42		-22.6		49.5		-7.40	
2019.10.30	-20.3	1.5	50.9	0.6	-9.72	-0.3	-22.4	0.9	48.2	-1.3	-7.25	0.15
2020.10.30	-20.7	-0.05	50.19	-0.11	-9.09	0.33	-23.1	-2.2	50.2	0.7	-7.03	0.37

5600MHz

D5GHzV3 – serial no. 1167												
	5600 Head						5600 Body					
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2018.08.03	-20.0		58.1		-7.15		-20.5		58.0		-6.37	
2019.10.30	-20.1	-0.5	57.4	-0.7	-7.63	-0.48	-20.4	0.5	57.7	-0.3	-6.87	-0.5
2020.10.30	-19.99	0.05	58.2	0.1	-7.13	0.02	-20.1	1.95	58.9	0.9	-5.96	0.41

5750MHz

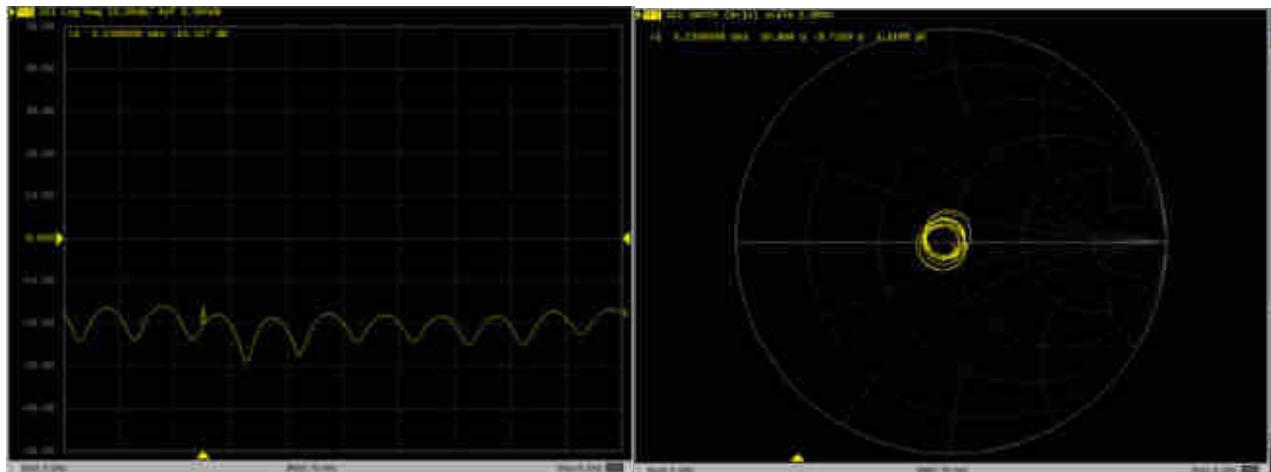
D5GHzV3 – serial no. 1167												
	5750 Head						5750 Body					
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2018.08.03	-21.8		53.5		-7.66		-21.9		54.5		-7.07	
2019.10.30	-21.1	3.2	53.0	-0.5	-8.58	-0.92	-21.6	1.4	55.2	0.7	-7.04	0.03
2020.10.30	-21.9	0.05	53.2	-0.3	-7.35	0.31	-21.6	1.4	54.2	-0.3	-7.60	-0.53

<Justification of the extended calibration>

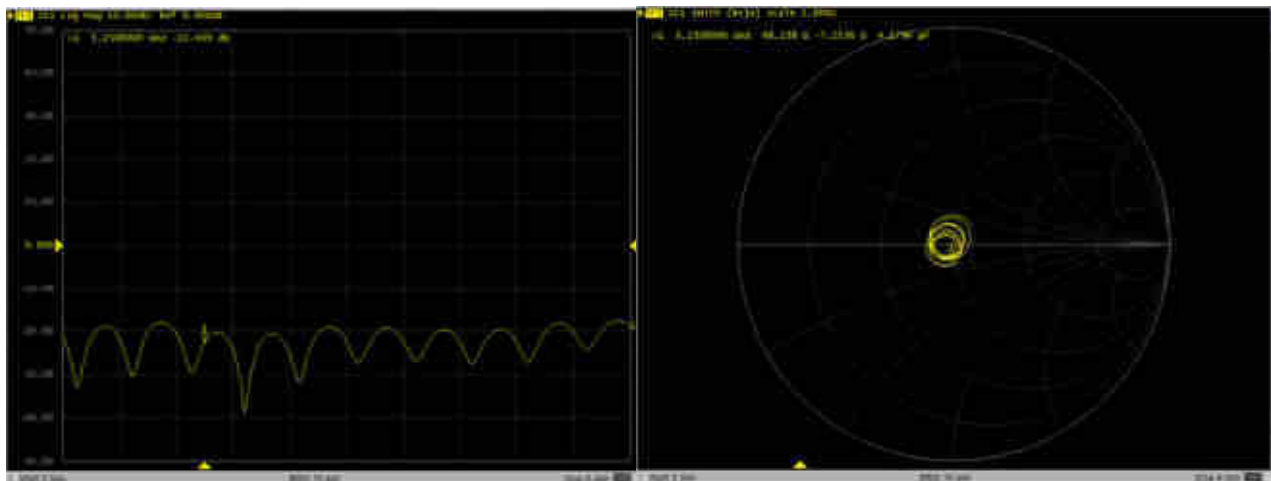
The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

Dipole Verification Data> D5GHzV3, serial no. 1167

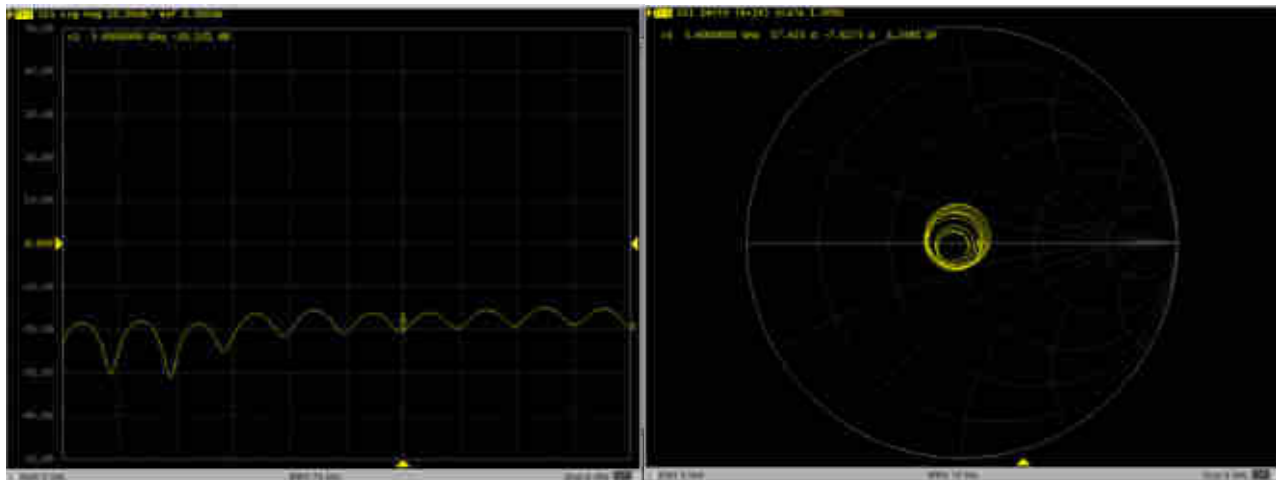
5250MHz – Head----2019.10.30



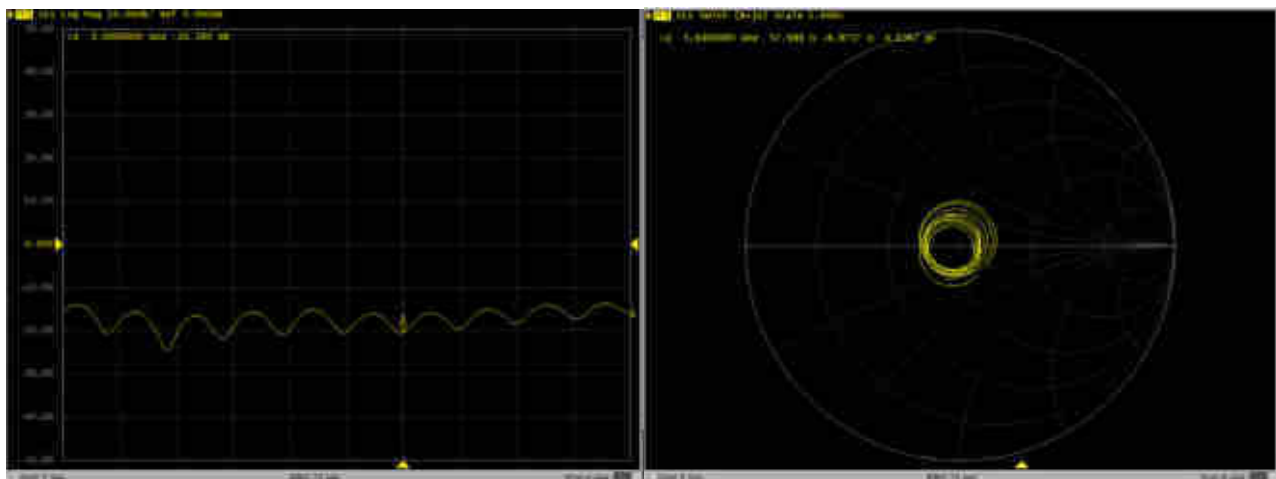
5250MHz – Body----2019.10.30



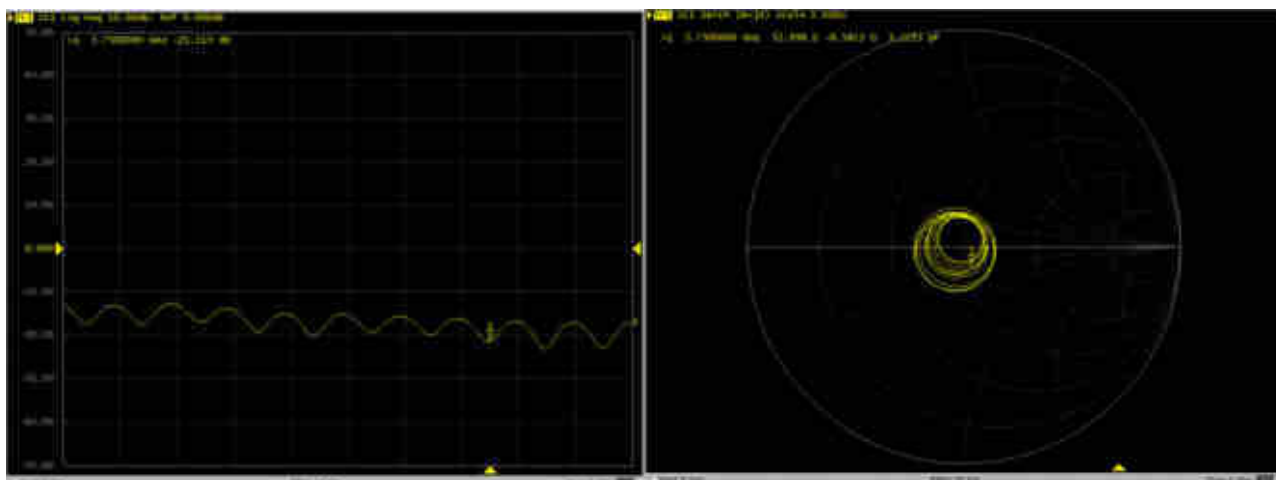
5600MHz – Head----2019.10.30



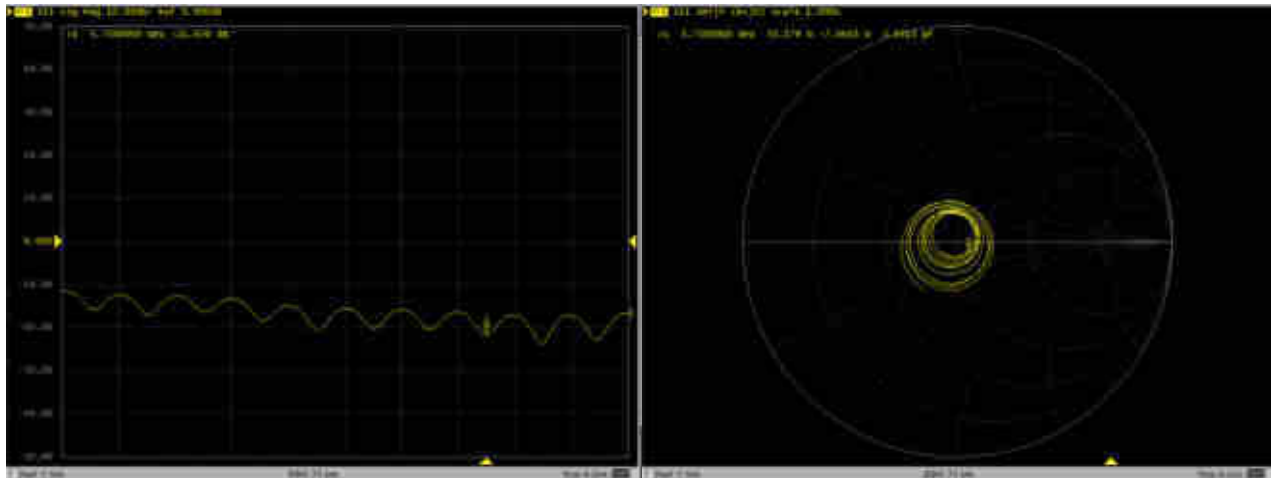
5600MHz – Body----2019.10.30



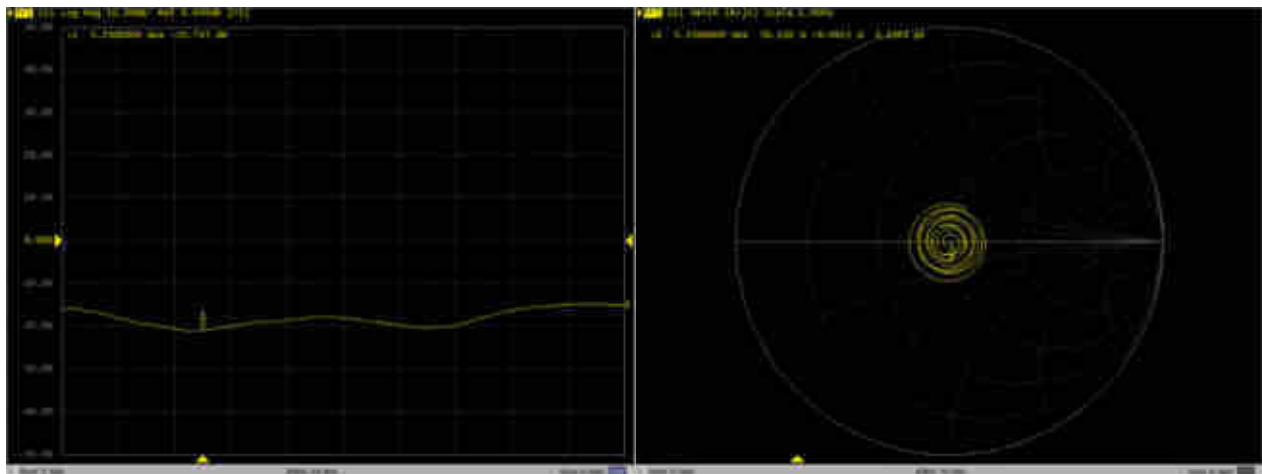
5750MHz – Head----2019.10.30



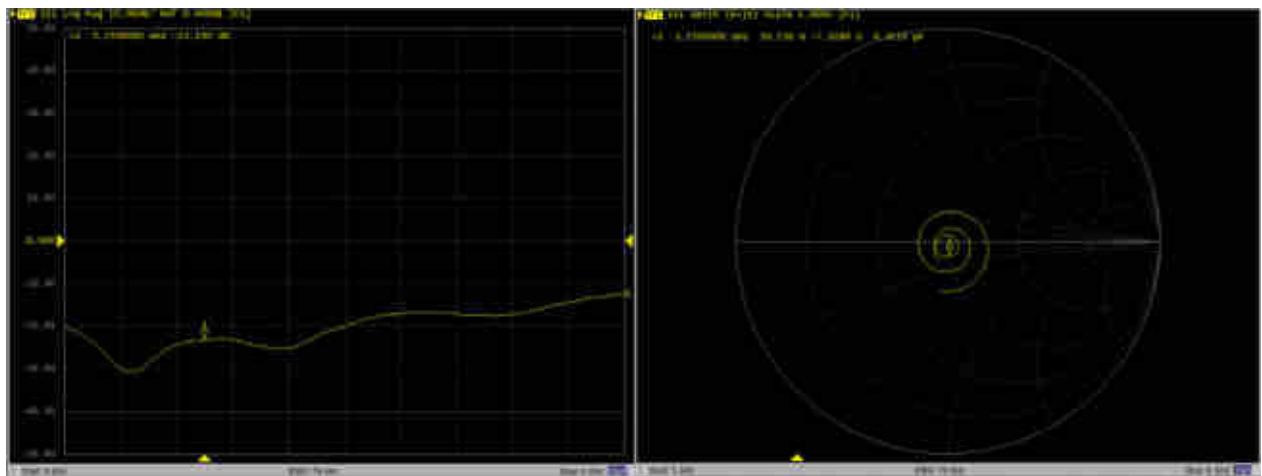
5750MHz – Body----2019.10.30



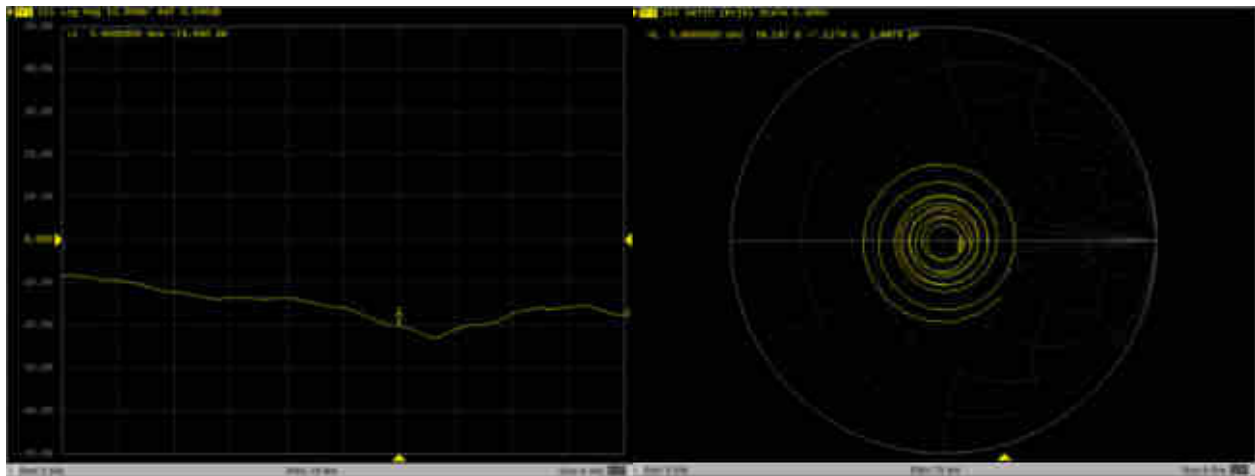
5250MHz – Head----2020.10.30



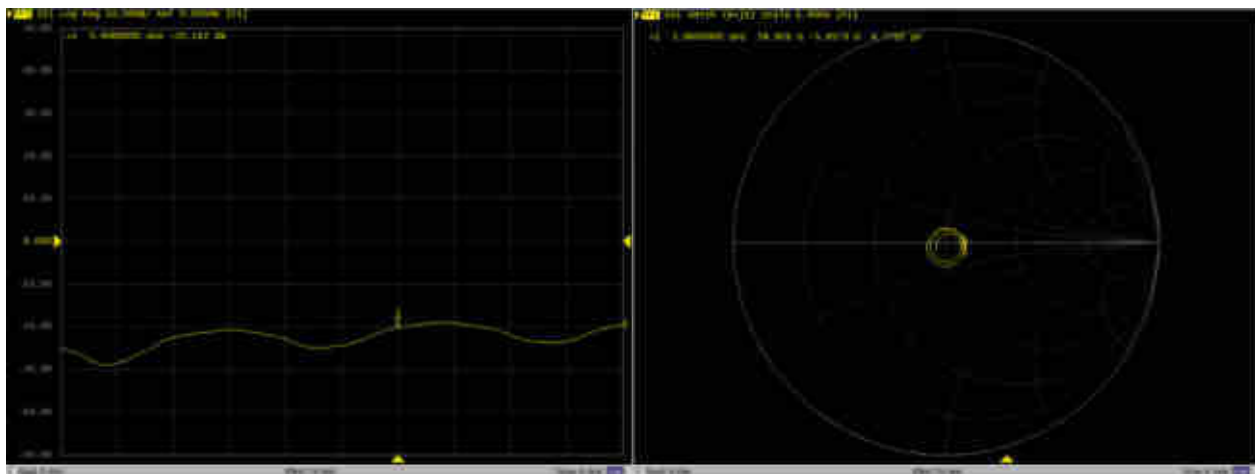
5250MHz – Body----2020.10.30



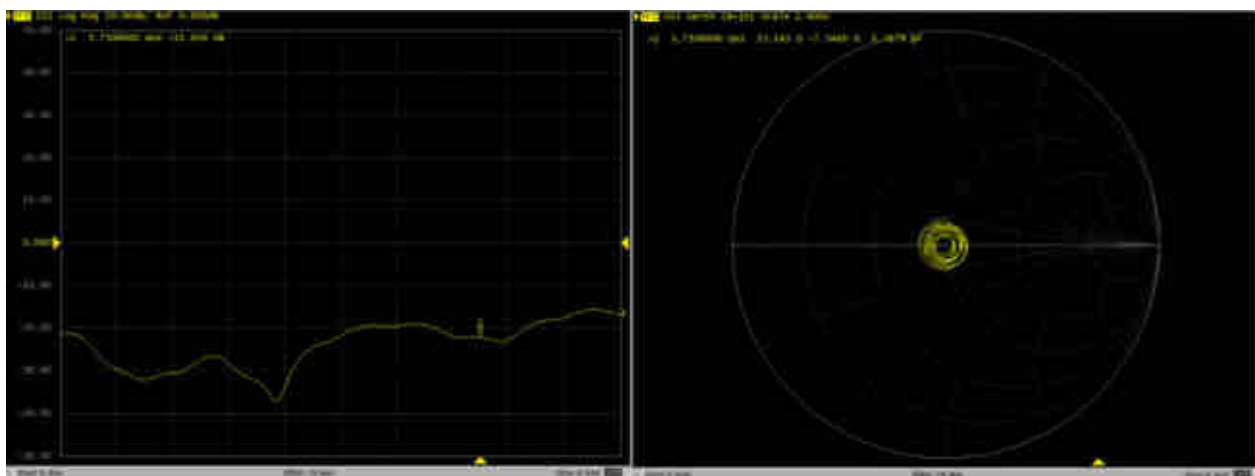
5600MHz – Head----2020.10.30

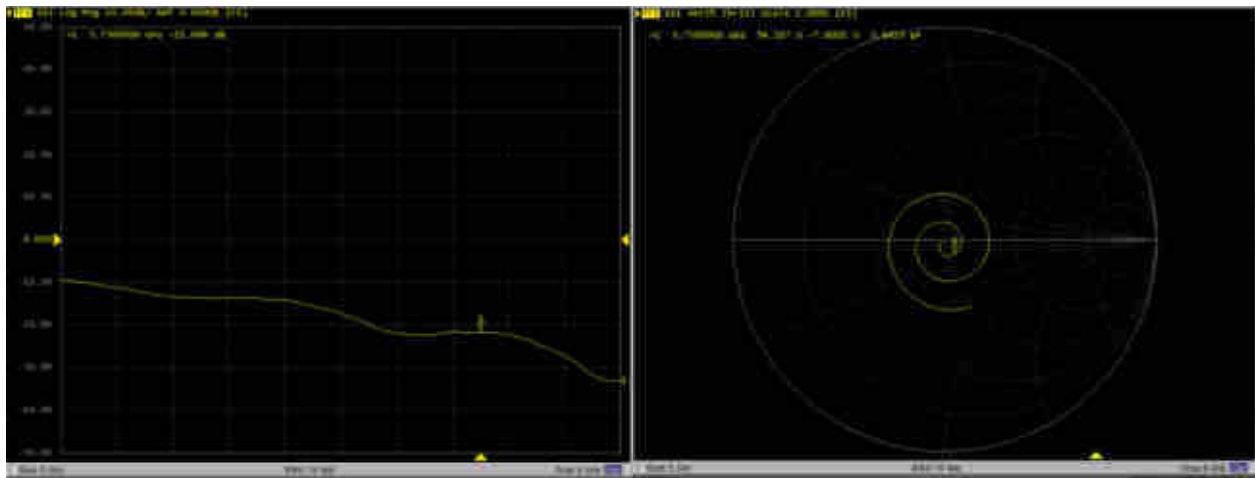


5600MHz – Body----2020.10.30



5750MHz – Head----2020.10.30







Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **Auden**

Certificate No: **DAE3-528_Mar20**

CALIBRATION CERTIFICATE

Object **DAE3 - SD 000 D03 AA - SN: 528**

Calibration procedure(s) **QA CAL-06.v30**
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: **March 16, 2020**

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 $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	03-Sep-19 (No:25949)	Sep-20
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	09-Jan-20 (in house check)	In house check: Jan-21
Calibrator Box V2.1	SE UMS 006 AA 1002	09-Jan-20 (in house check)	In house check: Jan-21

Calibrated by:	Name	Function	Signature
	Eric Hainfeld	Laboratory Technician	
Approved by:	Sven Kühn	Deputy Manager	

Issued: March 16, 2020

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



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Accreditation No.: **SCS 0108**

Glossary

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

Methods Applied and Interpretation of Parameters

- **DC Voltage Measurement:** Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- **Connector angle:** The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - **DC Voltage Measurement Linearity:** Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - **Common mode sensitivity:** Influence of a positive or negative common mode voltage on the differential measurement.
 - **Channel separation:** Influence of a voltage on the neighbor channels not subject to an input voltage.
 - **AD Converter Values with inputs shorted:** Values on the internal AD converter corresponding to zero input voltage
 - **Input Offset Measurement:** Output voltage and statistical results over a large number of zero voltage measurements.
 - **Input Offset Current:** Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - **Input resistance:** Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - **Low Battery Alarm Voltage:** Typical value for information. Below this voltage, a battery alarm signal is generated.
 - **Power consumption:** Typical value for information. Supply currents in various operating modes.

DC Voltage Measurement

A/D - Converter Resolution nominal

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

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

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

Calibration Factors	X	Y	Z
High Range	404.513 $\pm$ 0.02% (k=2)	404.615 $\pm$ 0.02% (k=2)	404.537 $\pm$ 0.02% (k=2)
Low Range	3.97109 $\pm$ 1.50% (k=2)	3.95930 $\pm$ 1.50% (k=2)	3.96568 $\pm$ 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	50.0 $^{\circ}$ $\pm$ 1 $^{\circ}$
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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	200037.58	3.28	0.00
Channel X	+ Input	20009.65	3.92	0.02
Channel X	- Input	-20001.89	3.62	-0.02
Channel Y	+ Input	200037.90	3.50	0.00
Channel Y	+ Input	20005.83	0.31	0.00
Channel Y	- Input	-20005.73	-0.03	0.00
Channel Z	+ Input	200033.51	-0.62	-0.00
Channel Z	+ Input	20006.48	0.89	0.00
Channel Z	- Input	-20006.01	-0.27	0.00

Low Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	2001.68	0.24	0.01
Channel X	+ Input	201.09	-0.22	-0.11
Channel X	- Input	-198.93	-0.12	0.06
Channel Y	+ Input	2001.70	0.49	0.02
Channel Y	+ Input	200.70	-0.24	-0.12
Channel Y	- Input	-199.76	-0.76	0.38
Channel Z	+ Input	2001.03	-0.04	-0.00
Channel Z	+ Input	201.25	0.40	0.20
Channel Z	- Input	-199.29	-0.32	0.16

2. Common mode sensitivity

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

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	9.59	7.82
	- 200	-7.34	-8.76
Channel Y	200	14.74	14.93
	- 200	-16.81	-17.15
Channel Z	200	-3.39	-3.82
	- 200	3.03	3.16

3. Channel separation

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

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	3.19	-1.66
Channel Y	200	6.79	-	4.73
Channel Z	200	7.16	5.28	-

4. AD-Converter Values with inputs shorted

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

	High Range (LSB)	Low Range (LSB)
Channel X	15972	16183
Channel Y	15900	16376
Channel Z	16167	15841

5. Input Offset Measurement

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

Input 10M Ω

	Average (μ V)	min. Offset (μ V)	max. Offset (μ V)	Std. Deviation (μ V)
Channel X	1.19	0.18	2.38	0.46
Channel Y	0.15	-1.39	1.24	0.47
Channel Z	0.36	-1.22	1.42	0.42

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9



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

Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **EX3-7576_Jan20**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7576**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7**
Calibration procedure for dosimetric E-field probes

Calibration date: **January 22, 2020**

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 $(22 \pm 3)^\circ\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&E critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	27-Dec-19 (No. DAE4-660 Dec19)	Dec-20
Reference Probe ES3DV2	SN: 3013	31-Dec-19 (No. ES3-3013 Dec19)	Dec-20
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20

Calibrated by:	Name	Function	Signature
	Jeton Kasrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: January 25, 2020

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



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Accreditation No.: **SCS 0108**

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Multilateral Agreement for the recognition of calibration certificates

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\theta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E^2 -field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z} = NORM_{x,y,z} * frequency_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}, B_{x,y,z}, C_{x,y,z}, D_{x,y,z}, VR_{x,y,z}**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7576

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.48	0.63	0.63	$\pm 10.1 \%$
DCP (mV) ^B	103.8	99.8	103.6	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Unc (k=2) ^E
0	CW	X	0.0	0.0	1.0	0.00	164.4	$\pm 2.7 \%$	$\pm 4.7 \%$
		Y	0.0	0.0	1.0		161.8		
		Z	0.0	0.0	1.0		164.7		

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

^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 5).

^B Numerical linearization parameter: uncertainty not required.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7576**Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	112.2
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7576

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^f	Conductivity (S/m) ^f	ConvF X	ConvF Y	ConvF Z	Alpha ^o	Depth (mm) ^o	Unc (k=2)
750	41.9	0.89	10.71	10.71	10.71	0.62	0.80	± 12.0 %
835	41.5	0.90	10.45	10.45	10.45	0.46	0.94	± 12.0 %
900	41.5	0.97	10.16	10.16	10.16	0.33	1.09	± 12.0 %
1750	40.1	1.37	8.88	8.88	8.88	0.42	0.86	± 12.0 %
1900	40.0	1.40	8.58	8.58	8.58	0.38	0.86	± 12.0 %
2000	40.0	1.40	8.48	8.48	8.48	0.39	0.86	± 12.0 %
2300	39.5	1.67	8.03	8.03	8.03	0.41	0.90	± 12.0 %
2450	39.2	1.80	7.76	7.76	7.76	0.44	0.90	± 12.0 %
2600	39.0	1.96	7.47	7.47	7.47	0.41	0.96	± 12.0 %
3300	38.2	2.71	7.08	7.08	7.08	0.30	1.35	± 14.0 %
3500	37.9	2.91	6.77	6.77	6.77	0.30	1.35	± 14.0 %
3700	37.7	3.12	6.74	6.74	6.74	0.30	1.35	± 14.0 %
3900	37.5	3.32	6.56	6.56	6.56	0.40	1.40	± 14.0 %
4100	37.2	3.53	6.26	6.26	6.26	0.40	1.40	± 14.0 %
4400	36.9	3.84	6.19	6.19	6.19	0.40	1.60	± 14.0 %
4600	36.7	4.04	6.06	6.06	6.06	0.40	1.60	± 14.0 %
4800	36.4	4.25	5.89	5.89	5.89	0.40	1.80	± 14.0 %
4950	36.3	4.40	5.59	5.59	5.59	0.40	1.80	± 14.0 %
5250	35.9	4.71	5.20	5.20	5.20	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.62	4.62	4.62	0.40	1.80	± 14.0 %
5750	35.4	5.22	4.83	4.83	4.83	0.40	1.80	± 14.0 %

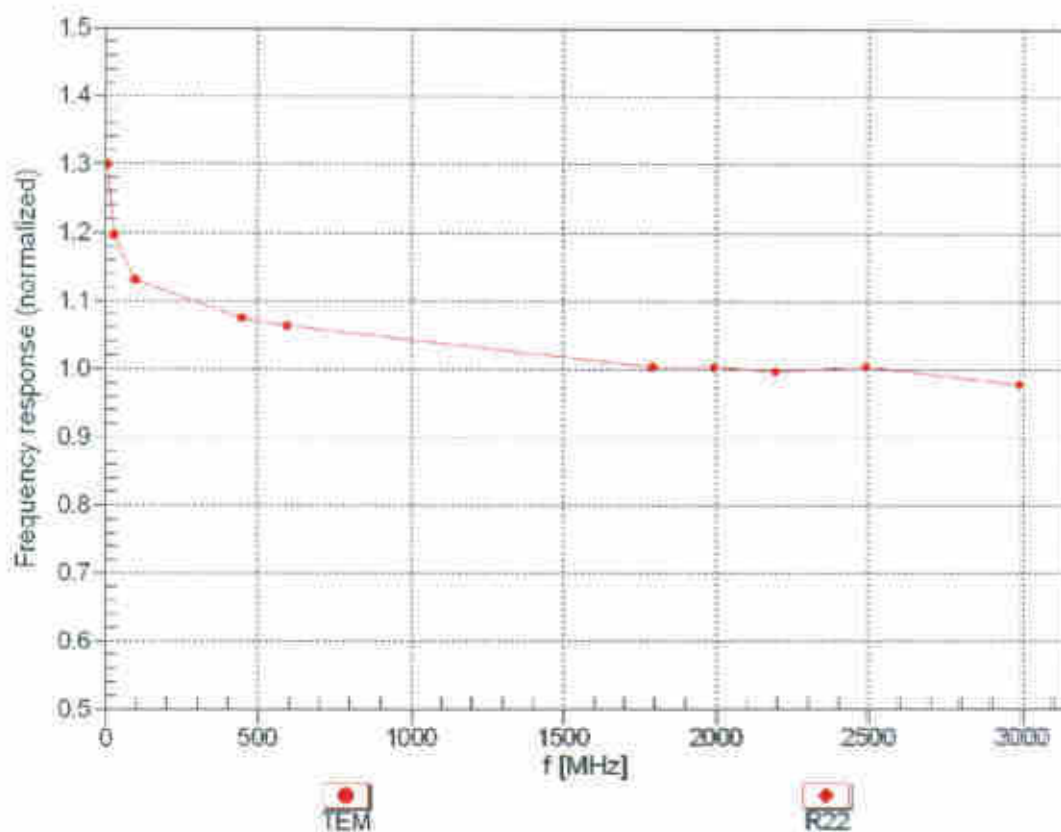
^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

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

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

Frequency Response of E-Field

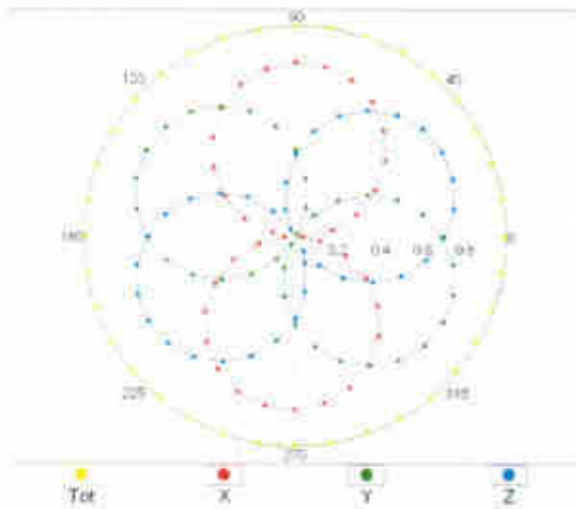
(TEM-Cell:ifi110 EXX, Waveguide: R22)



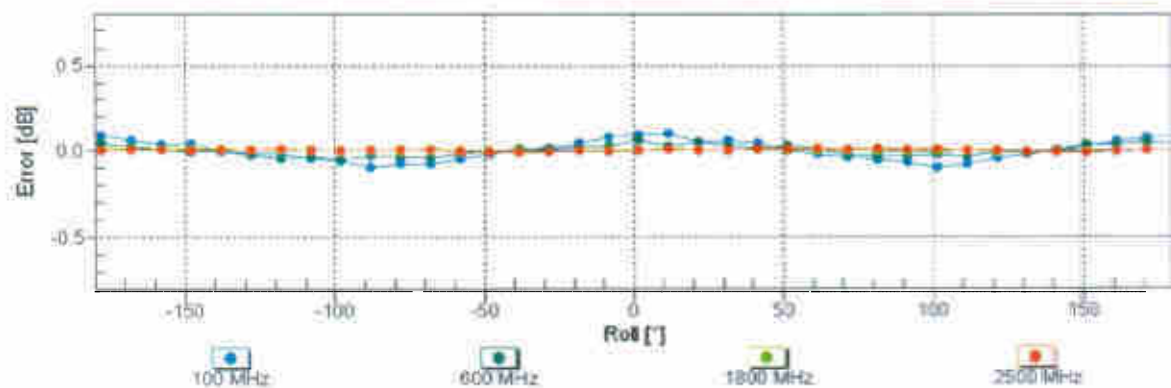
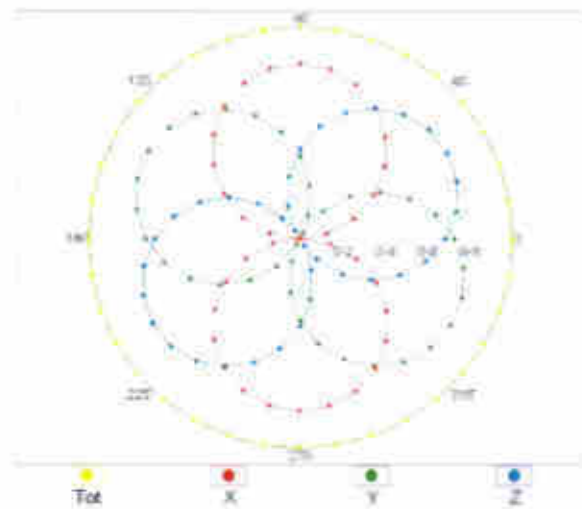
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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

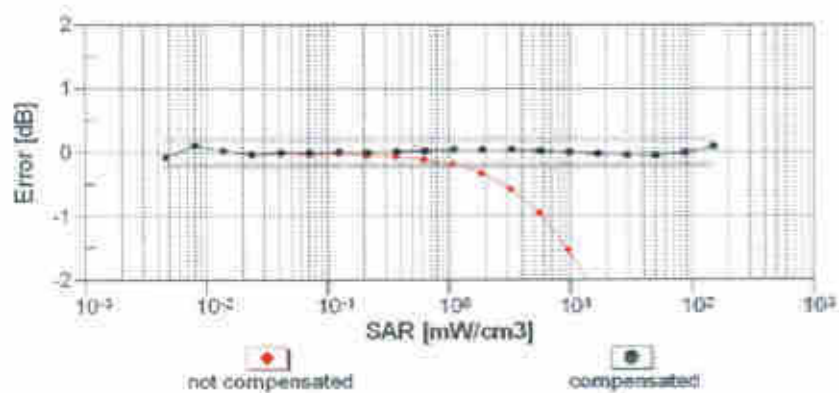
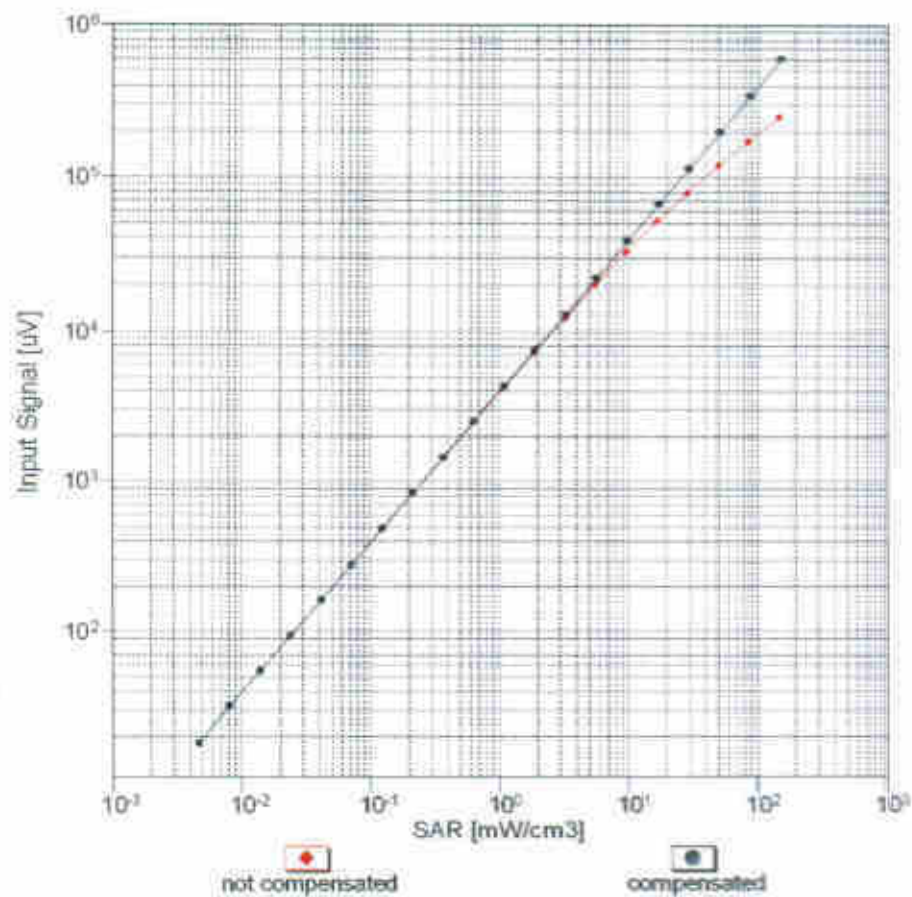
f=600 MHz,TEM



f=1800 MHz,R22

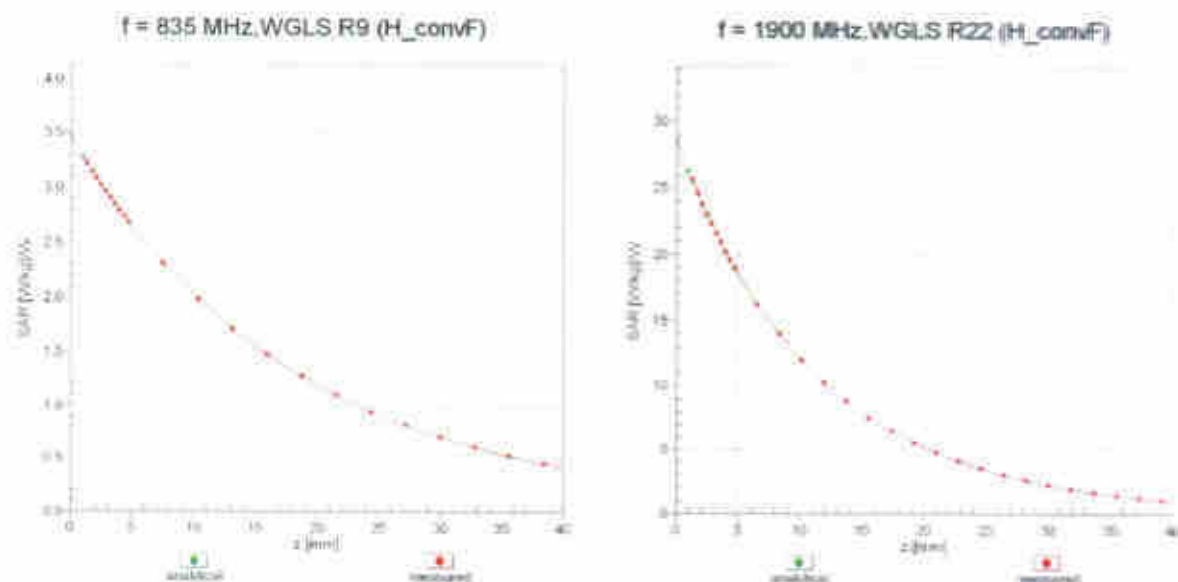
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f_{\text{eval}} = 1900 \text{ MHz}$)



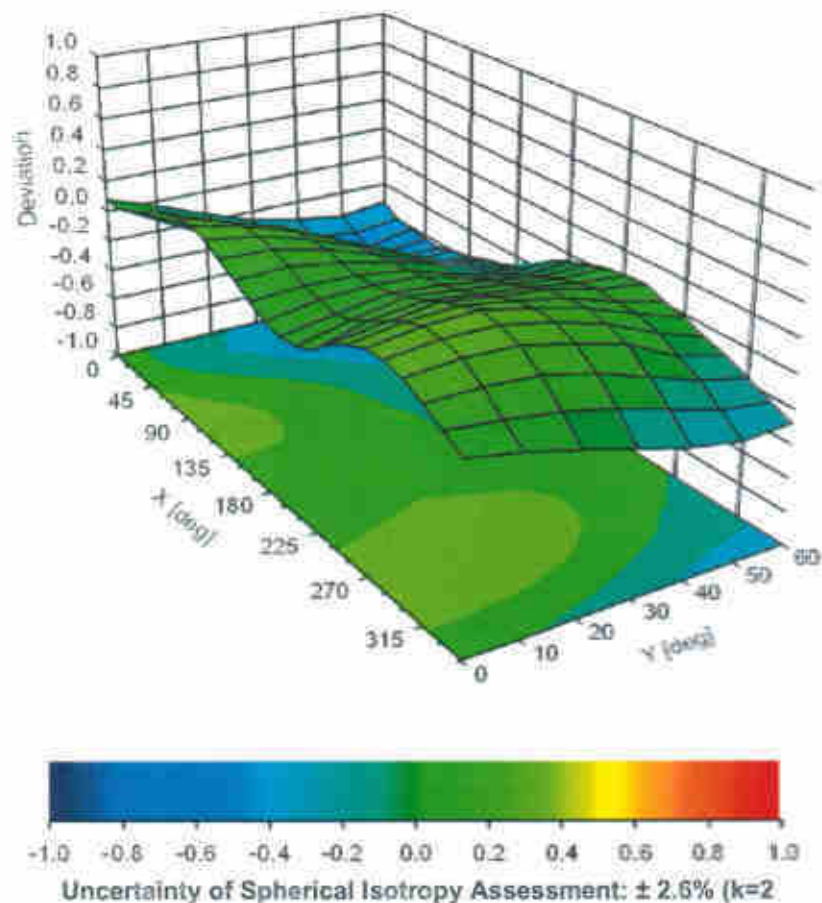
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ , θ), $f = 900 \text{ MHz}$





Appendix E. Conducted RF Output Power Table

The detailed power tables are shown as follows.



Full Power Mode - UAT

GSM900				Frame Average Power (dBm)			
Tx Channel		198	198	201	Tune-up Limit		201
Frequency (MHz)		824.2	836.4	848.6	Frame Average Power (dBm)		201
GSM 1 Tx out		20.10	20.08	20.02	23.88	24.10	23.88
GPRS 1 Tx out		20.12	20.05	20.00	23.88	24.12	23.85
GPRS 3 Tx out		20.44	20.44	20.38	26.89	24.44	24.38
GPRS 3 Tx out		20.46	20.46	20.40	26.89	24.46	24.34
EDGE 1 Tx out		20.01	20.02	20.05	26.89	20.01	24.52
EDGE 2 Tx out		20.02	20.02	20.01	26.89	20.02	24.95
EDGE 3 Tx out		20.03	20.04	20.04	26.89	19.98	18.54
EDGE 4 Tx out		20.02	20.02	20.01	26.89	17.62	17.91
EDGE 4 Tx out		20.08	20.02	20.10	23.88	18.78	18.84
EDGE 4 Tx out		20.14	20.23	20.32	22.89	19.14	19.23

GSM1800				Frame Average Power (dBm)			
Tx Channel		1812	1812	1815	Tune-up Limit		1815
Frequency (MHz)		1800.2	1800	1800.8	Frame Average Power (dBm)		1800.8
GSM 1 Tx out		20.00	20.70	20.89	26.89	20.00	19.78
GPRS 1 Tx out		20.00	20.69	20.84	26.89	19.95	19.94
GPRS 2 Tx out		20.02	20.52	20.91	26.89	19.92	19.91
GPRS 3 Tx out		20.40	20.35	20.18	25.89	20.22	20.07
GPRS 4 Tx out		20.06	20.07	20.06	24.89	20.06	20.06
EDGE 1 Tx out		20.08	20.05	20.04	26.89	19.98	19.94
EDGE 2 Tx out		20.10	20.05	20.09	23.89	17.10	17.05
EDGE 3 Tx out		20.02	20.02	20.42	22.79	18.08	18.07
EDGE 4 Tx out		21.05	21.11	21.10	21.79	18.05	18.11

Band				WCDMA S				WCDMA T				WCDMA V			
Tx Channel		9262	9400	9638	Tune-up Limit		9312	1412	1413	Tune-up Limit		4132		4162	4228
Frequency (MHz)		9262	9400	9638	Tune-up Limit		9312	1412	1413	Tune-up Limit		4132		4162	4228
ISPP Rel 96		20.70	20.70	20.66	24.89	24.12	24.21	24.22	24.89	23.98	24.05	23.90	24.89	24.05	24.80
ISPP Rel 96		20.70	20.70	20.66	24.89	24.14	24.21	24.24	24.89	23.97	24.06	23.90	24.89	24.06	24.80
ISPP Rel 96		20.71	20.70	20.61	23.89	22.37	22.44	22.41	23.89	23.12	23.18	23.04	23.89	23.12	23.04
ISPP Rel 96		20.69	20.77	20.42	23.89	22.43	22.53	22.41	23.89	23.08	23.11	23.04	23.89	23.08	23.08
ISPP Rel 96		20.70	20.70	20.60	23.89	21.93	21.98	21.90	23.89	22.97	22.98	22.93	23.89	22.97	22.93
ISPP Rel 96		20.28	20.39	20.10	23.89	21.94	22.01	21.93	23.89	22.61	22.63	22.55	23.89	22.61	22.55
ISPP Rel 96		20.48	20.65	20.40	23.89	22.20	22.28	22.25	23.89	22.17	22.46	22.47	23.89	22.17	22.47
ISPP Rel 96		20.48	20.60	20.30	23.89	22.22	22.30	22.27	23.89	22.11	22.47	22.45	23.89	22.11	22.45
ISPP Rel 96		20.04	20.08	21.89	23.89	21.81	21.92	21.87	23.89	21.63	21.98	21.93	23.89	21.63	21.93
ISPP Rel 96		20.02	20.14	21.89	23.89	21.80	21.94	21.89	23.89	21.62	21.97	21.91	23.89	21.62	21.91
ISPP Rel 96		20.01	20.00	20.77	21.89	20.57	20.73	20.67	21.89	20.98	21.23	21.08	21.89	20.98	21.08
ISPP Rel 96		20.70	20.60	20.08	21.89	20.60	20.70	20.68	21.89	20.97	21.08	20.90	21.89	20.97	20.90
ISPP Rel 96		20.85	20.95	22.85	21.89	22.58	22.65	22.68	21.89	22.61	22.61	22.11	21.89	22.61	22.11
ISPP Rel 96		21.10	21.21	21.07	21.89	20.77	21.00	20.98	21.89	20.93	21.10	20.98	21.89	20.93	21.10

Band				CDMA BCS				CDMA BCL				CDMA BCL			
Tx Channel		1813	364	777	Tune-up Limit		25	1865	1175	Tune-up Limit		476		965	884
Frequency (MHz)		824.7	838.52	848.31	Tune-up Limit		1851.28	1865	1868.75	Tune-up Limit		817.8		820.5	823.1
HCS 1 (SSS)		20.62	20.68	20.67	24.89	23.89	23.90	23.90	24.89	22.97	23.93	23.89	24.79	23.89	24.79
HCS 1 (SSS)		20.80	20.80	20.80	24.89	23.87	23.89	23.89	24.89	23.96	23.91	23.87	24.79	23.87	24.79
HCS 1 (SSS) (F+DCH)		20.79	20.80	20.84	24.89	23.86	23.88	23.47	24.89	23.94	23.80	23.80	24.79	23.80	24.79
HCS 1 (SSS) (F+DCH)		20.77	20.80	20.80	24.89	23.84	23.88	23.49	24.89	23.93	23.80	23.80	24.79	23.80	24.79
HCS 1 (SSS) (F+DCH)		20.76	20.84	20.81	24.89	23.83	23.84	23.45	24.89	23.91	23.87	23.83	24.79	23.83	24.79
HCS 1 (SSS) (F+DCH)		20.75	20.82	20.80	24.89	23.82	23.83	23.43	24.89	23.90	23.88	23.82	24.79	23.82	24.79



Band 2 (1000MHz Band)									
Part 24E									
BW (MHz)	Modulation	RB Size	RB Offset	Power Max (Ch. Freq.)	Power Min (Ch. Freq.)	Power Max (Ch. Freq.)	Power Min (Ch. Freq.)	Time-out (sec)	MPE (dB)
Channel									
Frequency (MHz)	1600	1600	1600	1600	1600	1600	1600	Time-out (sec) <td>MPE (dB)</td>	MPE (dB)
15	QPSK	1	5	23.56	23.63	23.85		24.8	0
15	QPSK	1	48	23.56	23.63	23.85			
15	QPSK	1	96	23.57	23.72	23.97			
15	QPSK	35	5	23.65	23.78	23.89			
15	QPSK	35	24	23.65	23.78	23.89			
15	QPSK	50	50	23.75	23.88	23.18		23.8	1
15	QPSK	100	5	23.71	23.89	23.92			
15	16QAM	1	48	23.88	23.91	23.24		23.8	1
15	16QAM	1	96	23.87	23.94	23.29			
15	16QAM	50	5	23.88	23.92	23.91			
15	16QAM	50	24	23.74	23.81	23.15		22.8	2
15	16QAM	50	50	23.72	23.88	23.12			
15	16QAM	100	5	23.72	23.88	23.12			
15	16QAM	1	5	23.81	23.86	23.94			
15	16QAM	1	48	23.74	23.80	23.21		22.8	2
15	16QAM	1	96	23.77	23.96	23.11			
15	16QAM	50	24	23.75	23.82	23.15		21.8	3
15	16QAM	50	50	23.74	23.80	23.12			
15	16QAM	100	5	23.72	23.86	23.17			
15	256QAM	1	48	23.89	23.87	23.14		19.8	5
15	256QAM	1	96	23.86	23.87	23.14			
15	256QAM	50	24	23.84	23.80	23.13			
15	256QAM	50	50	23.84	23.80	23.13		19.8	5
15	256QAM	100	5	23.85	23.87	23.14			
Channel									
Frequency (MHz)	1600	1600	1600	1600	1600	1600	1600	Time-out (sec)	MPE (dB)
15	QPSK	1	5	23.51	23.59	23.84		24.8	0
15	QPSK	1	37	23.49	23.61	23.88			
15	QPSK	1	74	23.52	23.76	23.81			
15	QPSK	36	5	23.57	23.71	23.89			
15	QPSK	36	24	23.66	23.84	23.88			
15	QPSK	36	50	23.63	23.86	23.87		23.8	1
15	QPSK	75	5	23.63	23.80	23.86			
15	16QAM	1	22.88	23.88	23.18				
15	16QAM	1	37	23.78	23.98	23.25		23.8	1
15	16QAM	1	74	23.82	23.91	23.24			
15	16QAM	36	5	23.86	23.94	23.95			
15	16QAM	36	20	23.89	23.83	23.86		22.8	2
15	16QAM	36	50	23.83	23.83	23.87			
15	16QAM	75	5	23.86	23.83	23.87			
15	16QAM	1	5	23.89	23.87	23.84		22.8	2
15	16QAM	1	37	23.91	23.97	23.84			
15	16QAM	1	74	23.91	23.96	23.86		22.8	2
15	16QAM	36	5	23.92	23.91	23.86			
15	16QAM	36	20	23.91	23.88	23.86		21.8	3
15	16QAM	36	50	23.88	23.89	23.12			
15	16QAM	75	5	23.88	23.82	23.87			
15	16QAM	1	37	23.75	23.87	23.15		19.8	5
15	256QAM	1	74	23.82	23.75	23.82			
15	256QAM	1	192	23.82	23.82	23.82			
15	256QAM	36	20	23.84	23.80	23.13			
15	256QAM	36	50	23.84	23.80	23.13		19.8	5
15	256QAM	75	5	23.84	23.80	23.13			
Channel									
Frequency (MHz)	1600	1600	1600	1600	1600	1600	1600	Time-out (sec)	MPE (dB)
15	QPSK	1	5	23.53	23.69	23.83		24.8	0
15	QPSK	1	37	23.49	23.61	23.88			
15	QPSK	1	74	23.52	23.76	23.81			
15	QPSK	36	5	23.57	23.71	23.89			
15	QPSK	36	24	23.66	23.84	23.88			
15	QPSK	36	50	23.63	23.86	23.87		23.8	1
15	QPSK	75	5	23.63	23.80	23.86			
15	16QAM	1	22.88	23.88	23.18				
15	16QAM	1	37	23.78	23.98	23.25		23.8	1
15	16QAM	1	74	23.82	23.91	23.24			
15	16QAM	36	5	23.86	23.94	23.95			
15	16QAM	36	20	23.89	23.83	23.86		22.8	2
15	16QAM	36	50	23.83	23.83	23.87			
15	16QAM	75	5	23.86	23.83	23.87			
15	16QAM	1	5	23.89	23.87	23.84		22.8	2
15	16QAM	1	37	23.91	23.97	23.84			
15	16QAM	1	74	23.91	23.96	23.86		22.8	2
15	16QAM	36	5	23.92	23.91	23.86			
15	16QAM	36	20	23.91	23.88	23.86		21.8	3
15	16QAM	36	50	23.88	23.89	23.12			
15	16QAM	75	5	23.88	23.82	23.87			
15	16QAM	1	37	23.75	23.87	23.15		19.8	5
15	256QAM	1	74	23.82	23.75	23.82			
15	256QAM	1	192	23.82	23.82	23.82			
15	256QAM	36	20	23.84	23.80	23.13			
15	256QAM	36	50	23.84	23.80	23.13		19.8	5
15	256QAM	75	5	23.84	23.80	23.13			
Channel									
Frequency (MHz)	1600	1600	1600	1600	1600	1600	1600	Time-out (sec)	MPE (dB)
15	QPSK	1	5	23.54	23.70	23.83		24.8	0
15	QPSK	1	37	23.49	23.61	23.88			
15	QPSK	1	74	23.51	23.76	23.81			
15	QPSK	36	5	23.57	23.71	23.89			
15	QPSK	36	24	23.66	23.84	23.88			
15	QPSK	36	50	23.63	23.86	23.87		23.8	1
15	QPSK	75	5	23.63	23.80	23.86			
15	16QAM	1	22.88	23.88	23.18				
15	16QAM	1	37	23.78	23.98	23.25		23.8	1
15	16QAM	1	74	23.82	23.91	23.24			
15	16QAM	36	5	23.86	23.94	23.95			
15	16QAM	36	20	23.89	23.83	23.86		22.8	2
15	16QAM	36	50	23.83	23.83	23.87			
15	16QAM	75	5	23.86	23.83	23.87			
15	16QAM	1	5	23.89	23.87	23.84		22.8	2
15	16QAM	1	37	23.91	23.97	23.84			
15	16QAM	1	74	23.91	23.96	23.86		22.8	2
15	16QAM	36	5	23.92	23.91	23.86			
15	16QAM	36	20	23.91	23.88	23.86		21.8	3
15	16QAM	36	50	23.88	23.89	23.12			
15	16QAM	75	5	23.88	23.82	23.87			
15	16QAM	1	37	23.75	23.87	23.15		19.8	5
15	256QAM	1	74	23.82	23.75	23.82			
15	256QAM	1	192	23.82	23.82	23.82			
15	256QAM	36	20	23.85	23.84	23.86		19.8	5
15	256QAM	36	50	23.86	23.84	23.86			
15	256QAM	75	5	23.86	23.84	23.86			
Channel									
Frequency (MHz)	1600	1600	1600	1600	1600	1600	1600	Time-out (sec)	MPE (dB)
15	QPSK	1	5	23.55	23.71	23.83		24.8	0
15	QPSK	1	37	23.49	23.61	23.88			
15	QPSK	1	74	23.51	23.76	23.81			
15	QPSK	36	5	23.57	23.71	23.89			
15	QPSK	36	24	23.66	23.84	23.88			
15	QPSK	36	50	23.63	23.86	23.87		23.8	1
15	QPSK	75	5	23.63	23.80	23.86			
15	16QAM	1	22.88	23.88	23.18				
15	16QAM	1	37	23.78	23.98	23.25		23.8	1
15	16QAM	1	74	23.82	23.91	23.24			
15	16QAM	36	5	23.86	23.94	23.95			
15	16QAM	36	20	23.89	23.83	23.86		22.8	2
15	16QAM	36	50	23.83	23.83	23.87			
15	16QAM	75	5	23.86	23.83	23.87			
15	16QAM	1	5	23.89	23.87	23.84		22.8	2
15	16QAM	1	37	23.91	23.97	23.84			
15	16QAM	1	74	23.91	23.96	23.86		22.8	2
15	16QAM	36	5	23.92	23.91	23.86			
15	16QAM	36	20	23.91	23.88	23.86		21.8	3
15	16QAM	36	50	23.88	23.89	23.12			
15	16QAM	75	5	23.88	23.82	23.87			
15	16QAM	1	37	23.75	23.87	23.15		19.8	5
15	256QAM	1	74	23.82	23.75	23.82			
15	256QAM	1	192	23.82	23.82	23.82			
15	256QAM	36	20	23.85	23.84	23.86		19.8	5
15	256QAM	36	50	23.86	23.84	23.86			
15	256QAM	75	5	23.86	23.84	23.86			
Channel									
Frequency (MHz)	1600	1600	1600	1600	1600	1600	1600	Time-out (sec)	MPE (dB)
15	QPSK	1	5	23.56	23.63	23.85		24.8	0
15	QPSK	1	48	23.56	23.63	23.85			
15	QPSK	1	96	23.57	23.72	23.97			
15	QPSK	35	5	23.65	23.78	23.89			
15	QPSK	35	24	23.65	23.78	23.89			
15	QPSK	50	50	23.75	23.88	23.18		23.8	1
15	QPSK	100	5	23.71	23.89	23.92			
15	16QAM	1	48	23.88	23.91	23.24		23.8	1
15	16QAM	1	96	23.87	23.94	23.29			
15	16QAM	50	5	23.88	23.92	23.91			
15	16QAM	50	24	23.74	23.81	23.15		22.8	2
15	16QAM	50	50	23.72	23.88	23.12			
15	16QAM	100	5	23.72	23.88	23.12			
15	16QAM	1	5	23.81	23.86	23.94			
15	16QAM	1	48	23.74	23.80	23.21		22.8	2
15	16Q								



Band 12 (700MHz Low Band) Part 27F (only on channel required)										
BV (MHz)	Modulation	RB Size	RB Offset	Power Max Ch./Freq.	Power Min Ch./Freq.	Power Max Ch./Freq.	Power Min Ch./Freq.	Time-up (min)	MPN (dB)	
Channel										
Frequency (MHz)										
10	QPSK	1	5	23.62	23.67	23.80				
10	QPSK	1	26	23.68	23.73	23.80				
10	QPSK	1	49	23.67	23.71	23.88		24.8	0	
10	QPSK	25	3	22.74	22.78	22.78				
10	QPSK	25	12	22.75	22.78	22.78				
10	QPSK	25	25	22.79	22.84	22.81		23.8	1	
10	QPSK	50	5	22.80	22.85	22.78				
10	16QAM	1	5	23.08	23.08	23.05				
10	16QAM	1	26	23.08	23.05	23.05		23.8	1	
10	16QAM	1	49	23.11	23.01	23.09				
10	16QAM	25	3	21.84	21.77	21.77				
10	16QAM	25	12	21.88	21.86	21.78		22.8	2	
10	16QAM	25	25	21.86	21.85	21.79				
10	16QAM	50	5	21.82	21.75	21.82				
10	16QAM	1	5	21.80	21.81	21.81		22.8	2	
10	16QAM	1	26	21.82	21.81	21.80				
10	16QAM	1	49	22.01	22.00	21.92				
10	16QAM	25	3	20.79	20.82	20.83				
10	16QAM	25	12	20.86	20.83	20.83		21.8	3	
10	16QAM	25	25	20.86	20.87	20.82				
10	16QAM	50	5	20.84	20.85	20.79				
10	25QAM	1	5	18.96	18.96	18.77				
10	25QAM	1	26	18.76	18.86	18.83		19.8	5	
10	25QAM	1	49	18.80	18.81	18.85				
10	25QAM	25	3	18.71	18.72	18.78				
10	25QAM	25	12	18.75	18.72	18.71		19.8	5	
10	25QAM	25	25	18.71	18.77	18.74				
10	25QAM	50	5	18.74	18.74	18.72				
Channel										
Frequency (MHz)										
5	QPSK	1	5	23.61	23.58	23.59				
5	QPSK	1	14	23.64	23.63	23.64		24.8	0	
5	QPSK	1	24	23.67	23.65	23.62				
5	QPSK	12	5	22.64	22.70	22.69				
5	QPSK	12	7	22.68	22.74	22.67		23.8	1	
5	QPSK	12	13	22.67	22.70	22.68				
5	QPSK	25	5	22.64	22.68	22.63				
5	16QAM	1	5	22.80	22.80	22.82				
5	16QAM	1	12	22.82	22.85	22.87		23.8	1	
5	16QAM	1	24	22.86	22.80	22.84				
5	16QAM	12	5	21.71	21.73	21.72				
5	16QAM	12	7	21.73	21.80	21.68		22.8	2	
5	16QAM	12	13	21.67	21.74	21.68				
5	16QAM	25	5	21.69	21.70	21.69				
5	16QAM	1	5	21.69	21.69	21.65		22.8	2	
5	16QAM	1	12	21.70	21.65	21.73				
5	16QAM	1	24	21.74	21.60	21.71				
5	16QAM	12	5	20.75	20.78	20.75				
5	16QAM	12	7	20.75	20.78	20.78		21.8	3	
5	16QAM	12	13	20.57	20.58	20.57				
5	16QAM	25	5	20.71	20.70	20.68				
5	25QAM	1	12	18.75	18.86	18.82		19.8	5	
5	25QAM	1	24	18.74	18.86	18.80				
5	25QAM	12	5	18.76	18.86	18.83				
5	25QAM	12	7	18.82	18.75	18.72		19.8	5	
5	25QAM	12	13	18.67	18.69	18.71				
5	25QAM	25	5	18.67	18.71	18.76				
Channel										
Frequency (MHz)										
5	QPSK	1	5	23.66	23.60	23.64				
5	QPSK	1	5	23.61	23.66	23.67		24.8	0	
5	QPSK	1	14	23.58	23.60	23.57				
5	QPSK	8	5	22.66	22.69	22.68				
5	QPSK	8	14	22.68	22.73	22.74		23.8	1	
5	QPSK	8	7	22.64	22.70	22.65				
5	QPSK	16	5	22.66	22.68	22.63				
5	16QAM	1	5	22.80	22.80	22.80				
5	16QAM	1	8	22.84	22.59	22.58		23.8	1	
5	16QAM	1	14	22.84	22.67	22.65				
5	16QAM	8	5	21.75	21.74	21.75				
5	16QAM	8	4	21.73	21.79	21.79		22.8	2	
5	16QAM	12	5	21.69	21.67	21.70				
5	16QAM	15	5	21.76	21.65	21.76				
5	16QAM	1	5	21.81	21.82	21.79		22.8	2	
5	16QAM	1	8	21.79	21.82	21.87				
5	16QAM	1	14	21.71	21.87	21.79				
5	16QAM	8	5	20.76	20.76	20.77				
5	16QAM	8	4	20.74	20.78	20.79		21.8	3	
5	16QAM	8	7	20.71	20.74	20.78				
5	16QAM	15	5	20.74	20.72	20.69				
5	25QAM	1	5	18.80	18.86	18.81				
5	25QAM	1	8	18.82	18.87	18.88		19.8	5	
5	25QAM	1	14	18.65	18.86	18.83				
5	25QAM	8	5	18.67	18.71	18.74				
5	25QAM	8	4	18.71	18.76	18.75		19.8	5	
5	25QAM	8	7	18.62	18.69	18.65				
5	25QAM	15	5	18.67	18.65	18.66				
Channel										
Frequency (MHz)										
1.4	QPSK	1	5	23.52	23.48	23.56				
1.4	QPSK	1	5	23.58	23.51	23.55		24.8	0	
1.4	QPSK	1	5	23.47	23.56	23.52				
1.4	QPSK	3	3	23.54	23.55	23.53				
1.4	QPSK	3	3	23.54	23.56	23.52				
1.4	QPSK	3	3	23.52	23.53	23.50		23.8	1	
1.4	QPSK	3	3	23.54	23.55	23.53				
1.4	16QAM	1	5	22.58	22.78	22.54		23.8	1	
1.4	16QAM	1	5	22.61	22.62	22.66				
1.4	16QAM	1	5	22.56	22.58	22.67				
1.4	16QAM	3	3	22.54	22.57	22.55		23.8	1	
1.4	16QAM	3	3	22.58	22.62	22.58				
1.4	16QAM	3	3	22.58	22.62	22.58				
1.4	16QAM	3	3	22.54	22.57	22.55		22.8	2	
1.4	16QAM	3	3	21.71	21.89	21.74				
1.4	16QAM	3	3	21.63	21.68	21.60		22.8	2	
1.4	16QAM	3	3	21.70	21.78	21.68				
1.4	16QAM	3	3	21.73	21.68	21.79				
1.4	16QAM	3	3	21.77	21.72	21.80				
1.4	16QAM	3	3	21.72	21.86	21.72				
1.4	16QAM	8	5	20.62	20.57	20.62		21.8	3	
1.4	25QAM	1	5	18.74	18.88	18.81				
1.4	25QAM	1	3	18.76	18.87	18.85				
1.4	25QAM	1	5	18.67	18.76	18.71		19.8	5	
1.4	25QAM	1	5	18.62	18.67	18.68				
1.4	25QAM	3	1	18.68	18.86	18.75				
1.4	25QAM	3	3	18.61	18.64	18.73		19.8	5	
1.4	25QAM	5	5	18.50	18.58	18.58				

Band 12 (700MHz Low Band) Part 27F (only on channel required)										
BV (MHz)	Modulation	RB Size	RB Offset	Power Max Ch./Freq.	Power Min Ch./Freq.	Power Max Ch./Freq.	Power Min Ch./Freq.	Time-up (min)	MPN (dB)	
Channel										
Frequency (MHz)										
10	QPSK	1	5			23.44				
10	QPSK	1	26			23.43		24.8	0	
10	QPSK	1	49			23.43				
10	QPSK	25	5			22.80				
10	QPSK	25	12			22.83		23.8	1	
10	QPSK	25	25			22.84				
10	QPSK	50	5			22.57				
10	16QAM	1	5			23.02				
10	16QAM	1	26			22.73		23.8	1	
10	16QAM	1	49			22.78				
10	16QAM	25	5			21.82				
10	16QAM	25	12			21.82		22.8	2	
10	16QAM	25	25			21.57				
10	16QAM	50	5			21.52				
10	16QAM	1	5			21.56				
10	16QAM	1	26			21.74		22.8	2	
10	16QAM	1	49			21.87				
10	16QAM	25	5			20.83				
10	16QAM	25	12			20.82		21.8	3	
10	16QAM	25	25			20.45				
10	16QAM	50	5			20.40				
10	25QAM	1	5			18.80				
10	25QAM	1	26			18.75		19.8	5	
10	25QAM	1	49			18.81				
10	25QAM	25	3			18.84				
10	25QAM	25	12			18.81		19.8	5	
10	25QAM	25	25			18.88				
10	25QAM	50	3			18.87				
Frequency (MHz)										
5	QPSK	1	5			779.5	792	794.5		
5	QPSK	1	0			23.36	23.31	23.29		
5	QPSK	1	12			23.38	23.41	23.41		
5	QPSK	1	25			23.27	23.32	23.32		
5	QPSK	12	0			22.51	22.52	22.49		
5	QPSK	12	12			22.53	22.51	22.51		
5	QPSK	12	13			22.57	22.57	22.57		
5	QPSK	25	0			22.68	22.68	22.61		
5	QPSK	25	0			22.60	22.60	22.60		
5	16QAM	1	12			22.90	22.80	22.85		
5	16QAM	1	24			22.89	22.88	22.75		
5	16QAM	1	36			21.88	21.84	21.88		
5	16QAM	12	7			21.88	21.88	21.81		
5	16QAM	12	13			21.80	21.59	21.82		
5	16QAM	25	0			21.58	21.57	21.57		
5	16QAM	1	0			21.56	21.54	21.54		
5	16QAM	1	12			21.91	21.83	21.93		
5	16QAM	1	24			21.90	21.81	21.72		
5	16QAM	12	0			20.60	20.55	20.67		
5	16QAM	12	12			20.60	20.55	20.60		
5	16QAM	12	13			20.57	20.55	20.44		
5	16QAM	25	0			20.23	20.35	20.70		
5	16QAM	25	12			20.26	20.26	20.26		
5	16QAM	25	13			20.27	20.25	20.44		
5	25QAM	1	12			19.08	19.10	19.05		
5	25QAM	1	24			18.87	18.76	18.86		
5	25QAM	1	36			18.86	18.76	18.86		
5	25QAM	12	7			18.04	18.79	18.71		
5	25QAM	12	13			18.77	18.81	18.76		
5	25QAM	25	0			18.63	18.63	18.63		

Band 2 for FCC (only on channel required)										
BSF (MHz)	Modulation	RB Size	RB Offset	Low Power	Mid Power	Power Class	Time-slot (ms)	MPK (dB)		
Channel										
Band 2 for FCC										
Frequency (MHz)				20.675	20.685	20.695				
15	QPSK	1	0	23.49	23.51	23.53	23.81			
15	QPSK	1	37	23.59	23.59	23.60	24.8	0		
15	QPSK	1	74	23.69	23.53	23.53				
15	QPSK	36	0	22.79	22.77	22.77	23.8	1		
15	QPSK	36	36	22.79	22.79	22.80				
15	QPSK	36	72	22.79	22.77	22.77				
15	16QAM	1	0	22.98	22.93	22.93				
15	16QAM	1	37	22.93	22.93	22.98	23.8	1		
15	16QAM	1	74	22.93	22.93	22.98				
15	16QAM	36	0	21.73	21.73	21.75				
15	16QAM	36	36	21.79	21.72	21.82				
15	16QAM	36	72	21.79	21.72	21.82	22.8	2		
15	16QAM	75	0	21.81	21.71	21.71				
15	16QAM	75	36	21.81	21.71	21.71				
15	16QAM	1	0	21.85	21.84	21.87				
15	16QAM	1	37	21.85	21.84	21.87	22.8	2		
15	16QAM	1	74	21.41	21.30	21.30				
15	16QAM	36	0	20.37	20.46	20.63				
15	16QAM	36	36	20.32	20.42	20.63	21.8			
15	16QAM	36	72	20.32	20.42	20.63				
15	16QAM	75	0	20.63	20.57	20.61				
15	16QAM	75	36	20.63	20.57	20.61				
15	25QAM	1	0	18.58	18.65	18.70	19.8			
15	25QAM	1	37	18.58	18.65	18.70				
15	25QAM	1	74	18.43	18.50	18.54				
15	25QAM	36	0	18.58	18.62	18.63				
15	25QAM	36	36	18.68	18.75	18.92	19.8	5		
15	25QAM	36	72	18.75	18.89	18.98				
15	25QAM	75	0	18.68	18.65	18.65				
15	25QAM	75	36	18.70	18.63	18.63				
Channel										
Band 2 for FCC										
Frequency (MHz)				20.675	20.685	20.695	Time-slot (ms)	MPK (dB)		
5	QPSK	1	0	23.49	23.51	23.53	23.81			
5	QPSK	1	37	23.59	23.59	23.60	24.8	0		
5	QPSK	1	74	23.69	23.53	23.53				
5	QPSK	36	0	22.55	22.63	22.63				
5	QPSK	36	36	22.54	22.62	22.62	23.8	1		
5	QPSK	36	72	22.54	22.62	22.62				
5	QPSK	75	0	22.55	22.78	22.73				
5	QPSK	75	36	22.64	22.69	22.72				
5	QPSK	75	72	22.67	22.71	22.71				
5	16QAM	1	0	22.77	22.69	22.69	23.8	1		
5	16QAM	1	37	22.88	23.07	23.15				
5	16QAM	1	74	22.88	23.07	23.15				
5	16QAM	36	0	21.63	21.78	21.87				
5	16QAM	36	36	21.63	21.78	21.87	22.8	2		
5	16QAM	36	72	21.63	21.77	21.82				
5	16QAM	75	0	21.74	21.74	21.77				
5	16QAM	75	36							
5	16QAM	75	72							
5	25QAM	1	0	18.58	18.65	18.70	19.8			
5	25QAM	1	37	18.58	18.65	18.70				
5	25QAM	1	74	18.43	18.50	18.54				
5	25QAM	36	0	18.58	18.62	18.63				
5	25QAM	36	36	18.68	18.75	18.92	19.8	5		
5	25QAM	36	72	18.75	18.89	18.98				
5	25QAM	75	0	18.68	18.65	18.65				
5	25QAM	75	36	18.70	18.63	18.63				
Channel										
Band 2 for FCC										
Frequency (MHz)				20.675	20.685	20.695	Time-slot (ms)	MPK (dB)		
3	QPSK	1	0	23.53	23.54	23.56				
3	QPSK	1	8	23.53	23.54	23.56	24.8	0		
3	QPSK	1	16	23.53	23.54	23.56				
3	QPSK	8	0	22.84	22.75	22.75				
3	QPSK	8	8	22.83	22.79	22.78	23.8	1		
3	QPSK	8	16	22.83	22.79	22.78				
3	QPSK	15	0	22.63	22.71	22.68				
3	16QAM	1	0	22.85	22.98	23.04				
3	16QAM	1	8	22.85	22.98	23.04	23.8			
3	16QAM	1	16	22.85	22.98	23.04				
3	16QAM	8	0	21.88	21.77	22.05				
3	16QAM	8	8	21.88	21.77	22.05	22.8	2		
3	16QAM	8	16	21.88	21.77	22.05				
3	16QAM	15	0	21.87	21.78	22.05				
3	16QAM	15	8	21.87	21.78	22.05	22.8	2		
3	16QAM	15	16	21.87	21.78	22.05				
3	16QAM	1	0	21.91	21.89	22.14				
3	16QAM	1	14	21.79	22.04	22.22				
3	16QAM	1	28	21.79	22.04	22.22	21.8			
3	16QAM	8	0	20.72	20.81	21.07				
3	16QAM	8	8	20.67	20.80	20.95				
3	16QAM	8	16	20.67	20.80	20.95	21.8			
3	25QAM	1	0	18.34	18.38	18.58				
3	25QAM	1	8	18.38	18.71	18.89	19.8	5		
3	25QAM	1	16	18.38	18.62	18.89				
3	25QAM	8	0	18.66	18.80	18.99				
3	25QAM	8	8	18.54	18.61	18.88	19.8	5		
3	25QAM	8	16	18.54	18.61	18.88				
3	25QAM	15	0	18.66	18.75	18.86				
3	25QAM	15	8	18.66	18.75	18.86				
3	25QAM	15	16	18.66	18.75	18.86				
Channel										
Band 2 for FCC										
Frequency (MHz)				20.675	20.685	20.695	Time-slot (ms)	MPK (dB)		
1.4	QPSK	1	0	23.48	23.48	23.53				
1.4	QPSK	1	3	23.51	23.54	23.60	24.8	0		
1.4	QPSK	1	6	23.49	23.54	23.59				
1.4	QPSK	3	0	22.53	22.58	22.62				
1.4	QPSK	3	3	22.58	22.62	22.67	23.8	1		
1.4	QPSK	3	6	22.58	22.62	22.67				
1.4	16QAM	1	0	22.89	22.90	23.04				
1.4	16QAM	1	3	22.91	23.02	23.11	23.8	1		
1.4	16QAM	1	6	22.91	23.02	23.11				
1.4	16QAM	3	0	22.80	22.86	22.88				
1.4	16QAM	3	3	22.83	22.87	22.91	22.8	2		
1.4	16QAM	3	6	22.83	22.87	22.91				
1.4	16QAM	6	0	21.85	21.82	22.02				
1.4	16QAM	6	3	21.72	21.82	22.02	22.8	2		
1.4	16QAM	6	6	21.72	21.82	22.02				
1.4	16QAM	1	0	21.72	21.81	22.01				
1.4	16QAM	1	3	21.88	22.11	22.11	22.8	2		
1.4	16QAM	1	6	21.71	21.81	21.97				
1.4	16QAM	3	0	20.59	20.69	20.83	21.8	3		
1.4	16QAM	3	3	20.59	20.69	20.83				
1.4	16QAM	3	6	20.59	20.69	20.83	19.8	5		
1.4	25QAM	1	0	18.70	18.90	18.98				
1.4	25QAM	1	3	18.63	18.83	18.93	19.8	5		
1.4	25QAM	1	6	18.63	18.83	18.93				
1.4	25QAM	3	0	18.47	18.76	18.85				
1.4	25QAM	3	3	18.73	18.79	18.85	19.8			
1.4	25QAM	3	6	18.73	18.79	18.85				

Band 30								
RF Freq.	Modulation	Channel	RF Offset	Power Low Ch. Power	Power High Ch. Power	Power High Ch. Temp.	Transmit (dBm)	MPH (dB)
27710								
15	QPSK	1	0	24.00	24.00			
15	QPSK	1	25	25.00	25.00		24.8	0
15	QPSK	49	0	25.00	25.00			
15	QPSK	49	25	25.00	25.00			
15	QPSK	25	12	25.18	25.18		23.8	1
15	QPSK	25	37	25.18	25.18			
15	QPSK	50	0	25.18	25.18			
15	QPSK	1	0	25.39	25.39			
15	QPSK	1	25	25.40	25.40		23.8	1
15	QPSK	1	49	25.24	25.24			
15	QPSK	25	0	22.08	22.08		22.8	2
15	QPSK	25	25	22.08	22.08			
15	QPSK	50	0	22.14	22.14			
15	QPSK	50	25	22.20	22.20			
15	QPSK	1	25	22.32	22.32			
15	QPSK	1	49	22.22	22.22			
15	QPSK	25	0	22.21	22.21			
15	QPSK	25	12	21.25	21.25		21.8	3
15	QPSK	25	37	21.25	21.25			
15	QPSK	50	0	21.14	21.14			
15	QPSK	1	0	19.15	19.15			
15	QPSK	1	25	19.20	19.20		19.8	5
15	QPSK	1	49	19.24	19.24			
15	QPSK	25	0	19.33	19.33			
15	QPSK	25	25	19.33	19.33		19.8	5
15	QPSK	25	37	19.37	19.37			
15	QPSK	50	0	19.40	19.40			
27805								
Frequency (MHz)								
5	QPSK	1	0	23.00	23.00	23.00		
5	QPSK	1	25	23.00	23.00	23.00		
5	QPSK	1	49	23.03	23.03	23.03	24.8	0
5	QPSK	12	0	23.13	23.09	23.09		
5	QPSK	12	25	23.17	23.17	23.17		
5	QPSK	12	37	23.13	23.13	23.17	23.8	1
5	QPSK	25	0	23.32	23.16	23.16		
5	QPSK	25	25	23.62	23.52	23.52		
5	QPSK	1	12	23.68	23.62	23.58	23.8	1
5	QPSK	24	23.01	23.28	23.28			
5	QPSK	1	49	23.78	23.78	23.78		
5	QPSK	12	7	22.24	22.19	22.22	22.8	2
5	QPSK	1	0	22.00	22.00	22.00		
5	QPSK	1	25	22.04	22.04	22.04		
5	QPSK	1	0	21.82	21.68	22.08		
5	QPSK	1	25	21.76	21.63	21.68	22.8	2
5	QPSK	1	49	21.88	21.80	22.04		
5	QPSK	12	0	21.92	21.80	21.86		
5	QPSK	12	25	21.84	21.78	21.82		
5	QPSK	10	13	21.18	21.18	21.21	21.8	3
5	QPSK	25	0	21.26	21.18	21.18		
5	QPSK	0	10	19.24	19.20	19.26		
5	QPSK	12	12	19.23	19.26	19.26	19.8	5
5	QPSK	1	24	19.40	19.48	19.48		
5	QPSK	1	49	19.20	19.20	19.20		
5	QPSK	12	7	19.38	19.48	19.50	19.8	5
5	QPSK	10	13	19.27	19.32	19.34		
5	QPSK	10	13	19.27	19.32	19.34		

Band 6										
PRF (MHz)	Modulation	Channel	RS ID	Offset (MHz)	Power (dBm)	Power (dBm)	Power (dBm)	Turn-up (dBm)	Turn-up (dBm)	Turn-up (dBm)
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.84	174.1	174.1	174.1			
20	QPSK	1	49	21.71	23.67	23.67	23.67	24.8	0	
20	QPSK	1	99	23.72	23.67	23.67	23.67			
20	QPSK	1	149	25.73	23.67	23.67	23.67			
20	QPSK	50	24	22.91	23.67	23.67	23.67	23.8	1	
20	QPSK	50	74	22.87	23.67	23.67	23.67			
20	QPSK	50	99	22.83	23.67	23.67	23.67			
20	QPSK	50	124	22.79	23.67	23.67	23.67			
20	QPSK	50	149	22.75	23.67	23.67	23.67			
20	QPSK	100	0	21.84	23.67	23.67	23.67			
20	QPSK	100	24	21.80	23.67	23.67	23.67	22.8	2	
20	QPSK	100	49	21.76	23.67	23.67	23.67			
20	QPSK	100	74	21.72	23.67	23.67	23.67			
20	QPSK	100	99	21.68	23.67	23.67	23.67	22.8	2	
20	QPSK	100	124	21.64	23.67	23.67	23.67			
20	QPSK	100	149	21.60	23.67	23.67	23.67			
20	QPSK	50	24	22.91	21.65	20.59	20.59	21.0	3	
20	QPSK	50	74	22.87	20.59	20.59	20.59			
20	QPSK	50	99	22.83	20.59	20.59	20.59			
20	QPSK	50	124	22.79	20.59	20.59	20.59			
20	QPSK	50	149	22.75	20.59	20.59	20.59			
20	QPSK	100	0	21.84	20.59	19.55	19.55	19.8		
20	QPSK	100	24	21.80	19.55	19.55	19.55			
20	QPSK	100	49	21.76	19.55	19.55	19.55			
20	QPSK	100	74	21.72	19.55	19.55	19.55			
20	QPSK	100	99	21.68	19.55	19.55	19.55	19.8		
20	QPSK	100	124	21.64	19.55	19.55	19.55			
20	QPSK	100	149	21.60	19.55	19.55	19.55			
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.30	174.2	174.2	174.2			
15	QPSK	1	49	23.17	23.67	23.67	23.67	24.8	0	
15	QPSK	1	99	23.13	23.67	23.67	23.67			
15	QPSK	50	24	22.95	23.67	23.67	23.67			
15	QPSK	50	74	22.91	23.67	23.67	23.67	23.8	1	
15	QPSK	50	99	22.87	23.67	23.67	23.67			
15	QPSK	50	124	22.83	23.67	23.67	23.67			
15	QPSK	50	149	22.79	23.67	23.67	23.67			
15	QPSK	100	0	21.84	23.67	23.67	23.67			
15	QPSK	100	24	21.80	23.67	23.67	23.67	22.8	2	
15	QPSK	100	49	21.76	23.67	23.67	23.67			
15	QPSK	100	74	21.72	23.67	23.67	23.67			
15	QPSK	100	99	21.68	23.67	23.67	23.67	22.8	2	
15	QPSK	100	124	21.64	23.67	23.67	23.67			
15	QPSK	100	149	21.60	23.67	23.67	23.67			
15	QPSK	50	24	22.91	21.65	20.59	20.59	21.0	3	
15	QPSK	50	74	22.87	20.59	20.59	20.59			
15	QPSK	50	99	22.83	20.59	20.59	20.59			
15	QPSK	50	124	22.79	20.59	20.59	20.59			
15	QPSK	50	149	22.75	20.59	20.59	20.59			
15	QPSK	100	0	21.84	20.59	19.55	19.55	19.8		
15	QPSK	100	24	21.80	19.55	19.55	19.55			
15	QPSK	100	49	21.76	19.55	19.55	19.55			
15	QPSK	100	74	21.72	19.55	19.55	19.55			
15	QPSK	100	99	21.68	19.55	19.55	19.55	19.8		
15	QPSK	100	124	21.64	19.55	19.55	19.55			
15	QPSK	100	149	21.60	19.55	19.55	19.55			
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.76	174.3	174.3	174.3			
10	QPSK	1	26	23.73	23.67	23.67	23.67	24.8	0	
10	QPSK	1	52	23.70	23.67	23.67	23.67			
10	QPSK	26	0	23.01	22.88	22.88	22.88			
10	QPSK	26	12	22.93	22.88	22.88	22.88	23.8	1	
10	QPSK	26	24	22.85	22.88	22.88	22.88			
10	QPSK	50	0	22.96	22.87	22.87	22.87			
10	QPSK	50	12	22.11	23.24	23.24	23.24	23.8	1	
10	QPSK	50	24	22.03	23.24	23.24	23.24			
10	QPSK	100	0	21.92	23.23	23.23	23.23	23.8	1	
10	QPSK	100	12	21.84	23.23	23.23	23.23			
10	QPSK	100	24	21.76	23.23	23.23	23.23			
10	QPSK	26	0	21.91	21.98	21.98	21.98	22.8	2	
10	QPSK	26	12	21.82	21.98	21.98	21.98			
10	QPSK	26	24	21.74	21.98	21.98	21.98			
10	QPSK	50	0	22.41	21.92	21.92	21.92	22.8	2	
10	QPSK	50	12	22.28	21.11	21.11	21.11			
10	QPSK	50	24	22.16	21.11	21.11	21.11			
10	QPSK	100	0	20.98	21.11	21.11	21.11	21.0	3	
10	QPSK	100	12	20.84	20.96	20.96	20.96			
10	QPSK	100	24	20.76	20.96	20.96	20.96			
10	QPSK	50	0	19.43	19.14	19.14	19.14	19.8		
10	QPSK	50	12	19.32	19.26	19.26	19.26			
10	QPSK	50	24	19.24	19.17	19.17	19.17	19.8		
10	QPSK	100	0	18.48	19.26	19.26	19.26			
10	QPSK	100	12	18.36	19.26	19.26	19.26			
10	QPSK	100	24	18.24	19.26	19.26	19.26			
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.68	174.5	174.5	174.5			
5	QPSK	1	26	23.67	23.67	23.67	23.67	24.8	0	
5	QPSK	1	52	23.67	23.67	23.67	23.67			
5	QPSK	26	0	23.00	22.88	22.88	22.88			
5	QPSK	26	12	22.93	22.88	22.88	22.88	23.8	1	
5	QPSK	26	24	22.85	22.88	22.88	22.88			
5	QPSK	50	0	22.96	22.87	22.87	22.87			
5	QPSK	50	12	22.11	23.24	23.24	23.24	23.8	1	
5	QPSK	50	24	22.03	23.24	23.24	23.24			
5	QPSK	100	0	21.92	23.23	23.23	23.23	23.8	1	
5	QPSK	100	12	21.84	23.23	23.23	23.23			
5	QPSK	100	24	21.76	23.23	23.23	23.23			
5	QPSK	26	0	21.91	21.98	21.98	21.98	22.8	2	
5	QPSK	26	12	21.82	21.98	21.98	21.98			
5	QPSK	26	24	21.74	21.98	21.98	21.98			
5	QPSK	50	0	22.41	21.92	21.92	21.92	22.8	2	
5	QPSK	50	12	22.28	21.11	21.11	21.11			
5	QPSK	50	24	22.16	21.11	21.11	21.11			
5	QPSK	100	0	20.98	21.11	21.11	21.11	21.0	3	
5	QPSK	100	12	20.84	20.96	20.96	20.96			
5	QPSK	100	24	20.76	20.96	20.96	20.96			
5	QPSK	50	0	19.43	19.14	19.14	19.14	19.8		
5	QPSK	50	12	19.32	19.26	19.26	19.26			
5	QPSK	50	24	19.24	19.17	19.17	19.17	19.8		
5	QPSK	100	0	18.48	19.26	19.26	19.26			
5	QPSK	100	12	18.36	19.26	19.26	19.26			
5	QPSK	100	24	18.24	19.26	19.26	19.26			
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.15	174.6	174.6	174.6			
3	QPSK	1	5	23.07	23.76	23.76	23.76	24.8	0	
3	QPSK	1	10	22.97	23.89	23.89	23.89			
3	QPSK	1	15	22.87	23.89	23.89	23.89			
3	QPSK	5	0	22.76	22.86	22.86	22.86	23.8	1	
3	QPSK	5	10	22.67	22.86	22.86	22.86			
3	QPSK	5	15	22.57	22.86	22.86	22.86			
3	QPSK	10	0	21.91	22.87	22.87	22.87	22.8	2	
3	QPSK	10	5	21.82	22.87	22.87	22.87			
3	QPSK	10	10	21.73	22.87	22.87	22.87			
3	QPSK	15	0	21.76	22.78	22.78	22.78	22.8	2	
3	QPSK	15	5	21.67	22.78	22.78	22.78			
3	QPSK	15	10	21.58	22.78	22.78	22.78			
3	QPSK	5	0	20.86	22.50	22.50	22.50	21.8	3	
3	QPSK	5	5	20.77	22.50	22.50	22.50			
3	QPSK	5	10	20.68	22.50	22.50	22.50			
3	QPSK	10	0	19.33	19.41	19.41	19.41	19.8		
3	QPSK	10	5	19.28	19.39	19.39	19.39			
3	QPSK	10	10	19.23	19.41	19.41	19.41			
3	QPSK	15	0	19.20	19.27	19.27	19.27	19.8		
3	QPSK	15	5	19.18	19.22	19.22	19.22			
3	QPSK	15	10	19.16	19.22	19.22	19.22			
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.15	174.7	174.7	174.7			
1.4	QPSK	1	5	23.08	24.00	24.00	24.00	24.8	0	
1.4	QPSK	1	10	22.98	24.00	24.00	24.00			
1.4	QPSK	5	0	23.86	23.98	23.97	23.97	23.8	1	
1.4	QPSK	5	5	23.80	23.98	23.97	23.97			
1.4	QPSK	5	10	23.74	23.98	23.97	23.97			
1.4	QPSK	10	0	23.19	23.37	23.37	23.37	23.8	1	
1.4	QPSK	10	5	23.22	23.51	23.50	23.50			
1.4	QPSK	10	10	23.25	23.46					

Band 71									
SVT (kHz)	Modulation	Channel	RB Size	RB Offset	Power Level 133022	Power Level 133032	Power Level 133032	Turn-up (dBm)	Sign. (dB)
Frequency (MHz)									
20	QPSK	1	5	0	23.25	23.50	23.50		
20	QPSK	1	46	23.25	23.42	23.42		24.8	0
20	QPSK	1	99	23.26	23.24	23.24			
20	QPSK	1	24	23.26	23.48	23.48			
20	QPSK	90	24	23.27	22.48	22.54		23.8	1
20	QPSK	90	50	23.28	22.41	22.41			
20	QPSK	100	50	23.28	22.48	22.48		23.8	1
20	QPSK	1	5	23.28	22.75	22.75			
20	QPSK	1	99	23.28	22.75	22.75			
20	QPSK	1	99	23.28	22.58	22.58			
20	QPSK	90	5	23.28	21.52	21.54		22.8	2
20	QPSK	90	24	23.28	21.41	21.59			
20	QPSK	90	24	23.28	21.70	21.70		22.8	2
20	QPSK	90	50	23.28	21.59	21.58			
20	QPSK	90	50	23.28	21.59	21.58			
20	QPSK	90	50	23.28	20.58	20.58		21.8	2
20	QPSK	90	50	23.28	20.47	20.46			
20	QPSK	100	50	23.28	20.58	20.58			
20	QPSK	1	5	16.01	18.98	18.97			
20	QPSK	1	49	15.94	19.00	19.00		19.0	5
20	QPSK	1	99	15.94	19.00	19.00			
20	QPSK	90	5	16.00	18.93	18.94			
20	QPSK	90	24	16.00	18.95	18.97		19.0	5
20	QPSK	90	50	16.00	18.95	18.95			
20	QPSK	100	50	16.00	18.94	19.00			
Channel									
Frequency (MHz)					676.5	133024	133034	Turn-up (dBm)	Sign. (dB)
10	QPSK	1	5	0	23.35	23.62	23.64		
10	QPSK	1	37	23.34	23.64	23.64		24.8	0
10	QPSK	1	74	23.34	23.64	23.64			
10	QPSK	36	5	23.35	22.82	22.82			
10	QPSK	36	23	23.37	22.84	22.83		23.8	1
10	QPSK	36	50	23.37	22.84	22.84			
10	QPSK	74	5	23.37	22.74	22.74		23.8	1
10	QPSK	74	23	23.38	22.75	22.81			
10	QPSK	74	50	23.38	22.75	22.75			
10	QPSK	36	50	23.38	21.75	21.87		22.8	2
10	QPSK	74	5	23.38	21.80	21.83			
10	QPSK	74	23	23.39	21.82	21.82			
10	QPSK	74	50	23.39	21.82	21.75		22.8	2
10	QPSK	36	25	23.40	20.73	20.81		21.8	3
10	QPSK	36	25	23.40	20.73	20.73			
10	QPSK	36	25	23.40	20.68	20.59			
10	QPSK	74	5	16.00	18.82	18.87		19.0	5
10	QPSK	74	23	16.01	18.82	18.84			
10	QPSK	74	50	16.01	18.82	18.74			
10	QPSK	36	5	16.03	18.75	18.71			
10	QPSK	36	23	16.03	18.75	18.75		19.0	5
10	QPSK	36	50	16.03	18.75	18.75			
10	QPSK	74	5	16.08	18.67	18.67			
Frequency (MHz)									
10	QPSK	1	5	0	23.66	23.51	23.57		
10	QPSK	1	49	23.65	23.45	23.52		24.8	0
10	QPSK	1	99	23.65	23.45	23.52			
10	QPSK	25	3	23.67	22.65	22.61			
10	QPSK	25	13	23.67	22.65	22.65		23.8	1
10	QPSK	25	25	23.67	22.65	22.65			
10	QPSK	36	3	23.67	22.63	22.63			
10	QPSK	36	13	23.68	22.63	22.63		23.8	1
10	QPSK	36	25	23.68	22.63	22.63			
10	QPSK	74	3	23.68	22.57	22.57		23.8	1
10	QPSK	74	13	23.69	22.57	22.57			
10	QPSK	74	25	23.69	22.57	22.54		22.8	2
10	QPSK	36	25	23.69	21.80	21.81		21.8	3
10	QPSK	74	3	23.69	21.80	21.80			
10	QPSK	74	13	23.69	21.80	21.80			
10	QPSK	74	25	23.69	21.80	21.73		19.0	5
10	QPSK	36	25	16.02	18.67	18.68			
10	QPSK	74	3	16.02	18.67	18.68			
10	QPSK	74	13	16.02	18.67	18.74		19.0	5
10	QPSK	74	25	16.02	18.67	18.64			
10	QPSK	36	25	16.07	18.58	18.59			
10	QPSK	1	5	18.90	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			
10	QPSK	1	25	18.91	18.76	18.80			

Band 38(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37860	38000	38150			
20	QPSK	1	0	23.98	23.74	23.77	24.8	0	
20	QPSK	1	40	23.93	23.89	23.81			
20	QPSK	1	80	24.00	23.88	23.87			
20	QPSK	50	24	23.32	23.08	23.14			
20	QPSK	10	24	22.19	21.98	21.94	23.8	1	
20	QPSK	50	50	23.21	23.09	23.12			
20	QPSK	100	0	23.31	23.07	23.22			
20	16QAM	1	0	23.29	23.12	23.23			
20	16QAM	1	40	23.42	23.11	23.26	23.8	1	
20	16QAM	1	80	23.27	23.20	23.22			
20	16QAM	50	24	22.33	22.09	22.22			
20	16QAM	50	50	22.24	22.16	22.21			
20	16QAM	100	0	22.34	22.04	22.14	22.8	2	
20	64QAM	1	0	22.19	21.98	22.04			
20	64QAM	1	40	22.17	22.02	22.22			
20	64QAM	50	24	21.26	21.04	21.15			
20	64QAM	50	50	21.33	21.18	21.18	21.8	3	
20	64QAM	100	0	21.39	21.06	21.11			
20	256QAM	1	0	18.83	18.54	18.96			
20	256QAM	1	40	18.89	18.88	18.77			
20	256QAM	1	80	18.87	18.73	18.85	19.8	5	
20	256QAM	50	0	18.21	18.15	18.14			
20	256QAM	50	24	19.28	19.18	19.07			
20	256QAM	50	50	19.19	19.08	18.92			
20	256QAM	100	0	19.15	19.06	19.00			
20	256QAM	100	0	19.15	19.06	19.00			
Channel									
Frequency (MHz)				37860	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25775	25905	26012			
15	QPSK	1	0	23.88	23.77	23.84	24.8	0	
15	QPSK	1	37	23.95	23.78	23.89			
15	QPSK	1	74	23.92	23.78	23.86			
15	QPSK	36	0	23.18	22.98	22.98			
15	QPSK	36	20	23.20	22.97	22.94	23.8	1	
15	QPSK	36	39	23.25	22.97	22.96			
15	QPSK	75	0	23.27	22.84	22.90			
15	16QAM	1	0	23.28	23.08	23.19			
15	16QAM	1	37	23.33	23.15	22.96	23.8	1	
15	16QAM	1	74	23.30	23.17	23.15			
15	16QAM	36	0	22.12	21.89	21.94			
15	16QAM	36	20	22.19	21.80	21.95			
15	16QAM	36	39	22.26	21.85	21.87	22.8	2	
15	16QAM	75	0	22.18	21.54	21.95			
15	64QAM	1	0	22.21	21.83	22.01			
15	64QAM	1	37	22.16	21.69	22.04			
15	64QAM	1	74	22.18	21.93	22.08	21.8	3	
15	64QAM	36	0	21.14	20.95	20.94			
15	64QAM	36	20	21.27	20.90	21.04			
15	64QAM	36	39	21.26	20.95	20.99			
15	64QAM	75	0	21.24	21.01	21.02	19.8	5	
15	256QAM	1	0	18.80	18.85	18.88			
15	256QAM	1	37	18.77	18.81	18.78			
15	256QAM	1	74	18.89	18.82	18.81			
15	256QAM	36	0	18.11	18.21	18.08	19.8	5	
15	256QAM	36	20	18.15	18.05	18.05			
15	256QAM	36	39	18.09	18.07	18.05			
15	256QAM	75	0	18.22	18.82	18.86			
15	256QAM	75	0	18.22	18.82	18.86			
15	256QAM	75	0	18.22	18.82	18.86			
Channel									
Frequency (MHz)				37860	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25825	25955	26062			
10	QPSK	1	0	23.90	23.78	23.87	24.8	0	
10	QPSK	1	26	23.93	23.77	23.82			
10	QPSK	1	48	23.85	23.76	23.77			
10	QPSK	26	0	23.13	22.94	22.96			
10	QPSK	26	12	23.28	22.92	23.00	23.8	1	
10	QPSK	25	25	23.25	22.96	22.93			
10	QPSK	10	0	23.28	22.88	22.97			
10	16QAM	1	0	23.34	23.11	23.21			
10	16QAM	1	26	23.37	23.16	23.13	23.8	1	
10	16QAM	1	48	23.37	23.28	22.96			
10	16QAM	25	0	22.27	21.88	21.88			
10	16QAM	25	12	22.28	21.87	22.07			
10	16QAM	25	25	22.12	21.80	22.07	22.8	2	
10	16QAM	50	0	22.26	22.02	22.00			
10	64QAM	1	0	22.29	22.05	22.04			
10	64QAM	1	25	22.10	22.07	22.28			
10	64QAM	1	48	22.26	22.11	22.10	21.8	3	
10	64QAM	25	0	21.25	21.05	21.00			
10	64QAM	25	12	21.28	21.03	21.10			
10	64QAM	25	25	21.31	21.06	21.09			
10	64QAM	50	0	21.22	21.07	21.02	19.8	5	
10	256QAM	1	0	18.82	18.88	18.71			
10	256QAM	1	25	18.75	18.83	18.41			
10	256QAM	1	48	18.72	18.80	18.42			
10	256QAM	25	0	18.15	18.19	18.04	19.8	5	
10	256QAM	25	12	18.23	18.05	18.01			
10	256QAM	25	25	18.06	18.05	18.07			
10	256QAM	50	0	18.23	18.06	18.07			
10	256QAM	50	0	18.23	18.06	18.07			
10	256QAM	50	0	18.23	18.06	18.07			
Channel									
Frequency (MHz)				37775	38005	38212	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25725	25955	26062			
5	QPSK	1	0	23.95	23.74	23.80	24.8	0	
5	QPSK	1	12	23.84	23.78	23.72			
5	QPSK	1	24	23.98	23.80	23.80			
5	QPSK	12	0	23.24	22.98	22.93			
5	QPSK	12	7	23.21	22.96	22.96	23.8	1	
5	QPSK	12	13	23.25	22.91	22.96			
5	QPSK	26	0	23.27	22.94	22.96			
5	16QAM	1	0	23.42	23.12	23.08			
5	16QAM	1	12	23.14	23.07	23.04	23.8	1	
5	16QAM	1	24	23.36	23.11	23.15			
5	16QAM	12	0	22.32	22.00	22.08			
5	16QAM	12	7	22.25	21.97	21.97			
5	16QAM	12	13	22.26	21.98	21.99	22.8	2	
5	64QAM	1	0	22.26	21.97	22.02			
5	64QAM	1	12	22.25	22.07	21.99			
5	64QAM	1	24	22.36	22.00	22.18			
5	64QAM	12	0	21.27	20.95	21.02	21.8	3	
5	64QAM	12	7	21.31	20.99	20.99			
5	64QAM	12	13	21.24	21.03	21.02			
5	64QAM	25	0	21.31	21.02	21.02			
5	256QAM	1	0	18.87	18.82	18.84	19.8	5	
5	256QAM	1	12	18.86	18.82	18.51			
5	256QAM	1	24	18.83	18.54	18.45			
5	256QAM	12	0	18.17	18.23	18.01			
5	256QAM	12	7	18.16	18.03	18.00	19.8	5	
5	256QAM	12	13	18.09	18.00	18.00			
5	256QAM	25	0	18.22	18.92	18.92			

Band 41 (2.6G Band)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low (Ch. / Freq.)	Power Low Middle (Ch. / Freq.)	Power Middle (Ch. / Freq.)	Power High Middle (Ch. / Freq.)	Power High (Ch. / Freq.)	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.88	24.07	24.06	24.12	24.20	24.8	0
20	QPSK	1	40	23.94	24.18	24.02	24.15	24.20		
20	QPSK	1	80	23.98	24.23	24.10	24.15	24.17		
20	QPSK	50	0	23.83	23.26	23.01	23.20	23.20		
20	QPSK	10	24	23.81	23.08	23.08	23.05	23.08	23.8	1
20	QPSK	50	50	23.87	23.20	23.14	23.21	23.22		
20	QPSK	100	0	23.80	22.59	22.27	22.57	22.59		
20	16QAM	1	0	23.11	23.02	23.22	23.20	23.40		
20	16QAM	1	40	23.00	23.01	23.09	23.30	23.13	23.8	1
20	16QAM	1	80	23.03	22.96	23.20	23.27	23.28		
20	16QAM	50	24	22.98	22.52	22.27	22.27	22.30		
20	16QAM	50	50	21.95	22.26	22.17	22.26	22.29		
20	64QAM	100	0	21.90	22.19	22.09	22.22	22.27	22.8	2
20	64QAM	1	0	21.87	21.60	21.86	21.50	22.07		
20	64QAM	1	40	21.88	21.91	21.85	21.88	21.98		
20	64QAM	1	80	21.71	21.78	21.66	21.86	21.88		
20	64QAM	50	24	21.60	21.29	21.21	21.18	21.21	21.8	2
20	64QAM	50	50	21.63	21.25	21.21	21.20	21.29		
20	64QAM	50	50	21.04	21.04	21.17	21.27	21.31		
20	64QAM	100	0	21.03	21.11	21.20	21.30	21.30		
20	256QAM	1	0	19.20	19.18	19.37	19.14	19.18	19.8	5
20	256QAM	1	40	19.12	19.17	19.26	19.05	19.02		
20	256QAM	1	80	19.16	19.24	19.18	19.16	19.07		
20	256QAM	50	0	19.40	19.43	19.38	19.43	19.42		
20	256QAM	50	24	19.41	19.42	19.38	19.42	19.41	19.8	5
20	256QAM	50	50	19.42	19.44	19.38	19.41	19.43		
20	256QAM	100	0	19.23	19.33	19.40	19.43	19.43		
20	256QAM	100	0	19.23	19.33	19.40	19.43	19.43		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.80	24.13	23.99	24.04	23.88	24.8	0
15	QPSK	1	40	23.81	24.14	24.02	24.07	23.88		
15	QPSK	1	74	23.98	24.22	23.93	24.02	23.93		
15	QPSK	36	0	23.29	23.48	23.30	23.38	23.30		
15	QPSK	36	20	23.22	23.57	23.42	23.30	23.33	23.8	1
15	QPSK	36	50	23.21	23.58	23.43	23.31	23.27		
15	QPSK	76	0	23.29	23.58	23.38	23.39	23.35		
15	16QAM	1	0	23.23	23.52	23.32	23.41	23.48		
15	16QAM	1	40	23.14	23.40	23.30	23.37	23.44	23.8	1
15	16QAM	1	74	23.31	23.60	23.00	23.48	23.32		
15	16QAM	36	0	22.14	22.47	22.21	22.28	22.31		
15	16QAM	36	20	22.25	22.68	22.24	22.29	22.26		
15	16QAM	36	50	22.31	22.63	22.38	22.29	22.30	22.8	2
15	16QAM	76	0	22.31	22.56	22.45	22.41	22.36		
15	16QAM	1	0	21.97	22.21	21.96	22.05	22.08		
15	16QAM	1	40	21.87	22.03	21.89	21.97	21.99		
15	64QAM	1	74	21.94	22.26	22.24	22.30	22.07	21.8	3
15	64QAM	36	0	21.26	21.87	21.36	21.37	21.29		
15	64QAM	36	20	21.28	21.56	21.26	21.27	21.50		
15	64QAM	36	50	21.33	21.64	21.40	21.37	21.35		
15	64QAM	76	0	21.34	21.59	21.40	21.41	21.35	19.8	5
15	256QAM	1	0	19.27	19.11	19.24	19.03	19.08		
15	256QAM	1	40	19.20	19.20	19.10	19.05	18.95		
15	256QAM	1	74	19.17	19.41	19.07	19.17	19.05		
15	256QAM	36	0	19.37	19.40	19.44	19.40	19.41	19.8	5
15	256QAM	36	20	19.28	19.41	19.40	19.35	19.31		
15	256QAM	36	50	19.40	19.51	19.39	19.32	19.32		
15	256QAM	76	0	19.35	19.47	19.46	19.38	19.36		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.96	24.12	24.01	24.03	23.98	24.8	0
10	QPSK	1	26	23.88	24.20	24.02	23.94	23.95		
10	QPSK	1	48	23.92	24.20	24.01	23.94	23.97		
10	QPSK	25	0	23.28	23.45	23.25	23.33	23.36		
10	QPSK	25	26	23.27	23.63	23.39	23.37	23.32	23.8	1
10	QPSK	25	26	23.19	23.62	23.44	23.36	23.34		
10	QPSK	50	0	23.30	23.63	23.42	23.35	23.27		
10	16QAM	1	0	23.28	23.62	23.38	23.35	23.43		
10	16QAM	1	26	23.28	23.63	23.46	23.38	23.31	23.8	1
10	16QAM	1	48	23.28	23.64	23.37	23.41	23.31		
10	16QAM	1	74	23.24	23.64	23.37	23.38	23.38		
10	16QAM	25	12	23.27	23.68	23.42	23.27	23.32		
10	16QAM	25	26	23.26	22.66	22.47	22.33	22.31	22.8	2
10	16QAM	1	0	22.31	22.66	22.47	22.33	22.44		
10	64QAM	1	0	22.03	22.23	22.11	22.15	22.05		
10	64QAM	1	26	22.03	22.30	22.20	22.07	21.94		
10	64QAM	1	48	21.93	22.27	21.98	21.98	21.84	21.8	3
10	64QAM	25	12	21.90	21.53	21.30	21.32	21.48		
10	64QAM	25	12	21.40	21.87	21.31	21.48	21.34		
10	64QAM	25	26	21.36	21.70	21.47	21.30	21.40		
10	256QAM	1	0	19.14	19.18	19.18	19.14	19.18	19.8	5
10	256QAM	1	0	19.33	19.08	19.26	19.12	19.08		
10	256QAM	1	26	19.17	19.11	19.26	19.08	19.02		
10	256QAM	48	0	19.11	19.43	19.15	19.05	19.09		
10	256QAM	25	12	19.36	19.36	19.36	19.36	19.36	19.8	5
10	256QAM	25	12	19.31	19.47	19.34	19.37	19.30		
10	256QAM	25	26	19.36	19.55	19.34	19.37	19.39		
10	256QAM	50	0	19.26	19.40	19.41	19.36	19.38		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.98	24.15	23.93	24.02	23.94	24.8	0
5	QPSK	1	12	23.87	24.20	24.02	23.95	23.99		
5	QPSK	1	24	23.90	24.24	24.03	23.96	23.88		
5	QPSK	10	0	23.28	23.56	23.44	23.34	23.30		
5	QPSK	10	7	23.33	23.62	23.42	23.41	23.31	23.8	1
5	QPSK	10	13	23.31	23.61	23.38	23.30	23.23		
5	QPSK	10	24	23.21	23.56	23.38	23.28	23.28		
5	16QAM	1	0	23.28	23.57	23.42	23.33	23.28		
5	16QAM	1	12	23.44	23.64	23.47	23.40	23.20	23.8	1
5	16QAM	1	24	23.33	23.59	23.40	23.32	23.32		
5	16QAM	10	6	22.30	22.53	22.36	22.38	22.27		
5	16QAM	10	7	22.24	22.69	22.49	22.32	22.28		
5	16QAM	12	11	22.20	22.83	22.49	22.38	22.28	22.8	2
5	16QAM	25	7	22.28	22.83	22.49	22.32	22.28		
5	64QAM	1	0	22.07	22.25	22.11	22.07	21.99		
5	64QAM	1	12	21.97	22.30	22.21	22.09	22.02		
5	64QAM	1	24	22.11	22.25	22.12	22.12	21.93	21.8	3
5	64QAM	10	0	21.28	21.62	21.47	21.39	21.35		
5	64QAM	12	7	21.33	21.67	21.48	21.38	21.29		
5	64QAM	12	13	21.18	21.33	21.16	21.12	21.25		
5	64QAM	25	0	21.37	21.68	21.49	21.39	21.37	19.8	5
5	256QAM	1	0	19.35	19.08	19.25	19.03	19.10		
5	256QAM	1	12	19.16	19.17	19.26	19.06	19.06		
5	256QAM	1	24	19.10	19.28	19.27	19.10	19.10		
5	256QAM	10	0	19.36	19.50	19.38	19.30	19.37	19.8	5
5	256QAM	10	0	19.37	19.46	19.57	19.41	19.29		
5	256QAM	10	13	19.40	19.49	19.57	19.42	19.54		
5	256QAM	25	0	19.27	19.44	19.57	19.37	19.19		



Band 41 (2.6G Band) HPUE (Limit 27)											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co. Ch / Freq	Power Low Middle Co. Ch / Freq	Power Middle Co. Ch / Freq	Power High Middle Co. Ch / Freq	Power High Co. Ch / Freq	Turn-on time (ms)	MPE (dB)	
Channel											
Frequency (MHz)											
20	QPSK	1	0	26.08	26.11	26.05	26.09	26.09	26.8	0	
20	QPSK	1	48	26.08	26.01	25.96	26.09	26.11			
20	QPSK	1	96	26.08	26.15	26.06	26.10	26.12			
20	QPSK	50	0	26.03	26.28	26.09	26.24	26.22	26.8	1	
20	QPSK	50	48	26.07	26.30	26.23	26.27	26.27			
20	QPSK	50	96	26.02	26.25	26.15	26.19	26.19			
20	QPSK	100	0	26.15	26.38	26.34	26.32	26.36	26.8	2	
20	QPSK	100	48	26.20	26.40	26.13	26.38	26.46			
20	QPSK	100	96	26.22	26.48	26.12	26.18	26.39			
20	16QAM	1	0	26.25	26.40	26.13	26.38	26.46	26.8	3	
20	16QAM	1	48	26.22	26.46	26.12	26.18	26.39			
20	16QAM	1	96	26.20	26.41	26.37	26.33	26.28			
20	16QAM	50	0	26.18	26.42	26.30	26.42	26.42	26.8	4	
20	16QAM	50	48	26.19	26.42	26.30	26.42	26.42			
20	16QAM	50	96	26.18	26.43	26.38	26.37	26.38			
20	16QAM	100	0	26.17	26.43	26.32	26.40	26.42	26.8	5	
20	16QAM	100	48	26.16	26.23	26.22	26.31	26.30			
20	16QAM	100	96	26.05	26.32	26.24	26.31	26.37			
20	64QAM	1	0	26.05	26.22	26.22	26.22	26.21	24.8	2	
20	64QAM	1	48	26.05	26.32	26.24	26.31	26.32			
20	64QAM	1	96	26.06	26.43	26.41	26.40	26.42			
20	64QAM	50	0	26.16	26.43	26.31	26.40	26.42	24.8	3	
20	64QAM	50	48	26.18	26.33	26.30	26.32	26.38			
20	64QAM	50	96	26.24	26.43	26.38	26.37	26.38			
20	64QAM	100	0	26.16	26.42	26.31	26.41	26.42	23.8	3	
20	64QAM	100	48	26.12	26.41	26.37	26.41	26.42			
20	64QAM	100	96	26.24	26.44	26.30	26.40	26.42			
20	256QAM	1	0	26.01	26.10	26.10	26.10	26.08	21.8	5	
20	256QAM	1	48	26.05	26.12	26.03	26.08	26.11			
20	256QAM	1	96	26.04	26.14	26.05	26.10	26.01			
20	256QAM	50	0	26.13	26.19	26.23	26.18	26.18	21.8	5	
20	256QAM	50	48	26.19	26.23	26.14	26.21	26.12			
20	256QAM	50	96	26.14	26.22	26.13	26.18	26.08			
20	256QAM	100	0	26.08	26.23	26.15	26.14	26.08	21.8	5	
20	256QAM	100	48	26.07	26.15	26.10	26.14	26.08			
20	256QAM	100	96	26.05	26.17	26.10	26.14	26.08			
Channel											
Frequency (MHz)											
16	QPSK	1	0	26.06	26.05	26.01	26.08	26.06	26.8	0	
16	QPSK	1	37	26.06	26.09	26.07	26.07	26.01			
16	QPSK	1	74	26.03	26.11	26.12	26.11	26.03			
16	QPSK	36	0	26.06	26.34	26.15	26.11	26.13	26.8	1	
16	QPSK	36	20	26.10	26.35	26.23	26.05	26.05			
16	QPSK	36	36	26.09	26.42	26.26	26.02	26.02			
16	QPSK	75	0	26.14	26.39	26.20	26.06	26.12	26.8	2	
16	16QAM	1	0	26.17	26.47	26.32	26.32	26.26			
16	16QAM	1	37	26.19	26.41	26.38	26.09	26.17			
16	16QAM	1	74	26.16	26.50	26.43	26.02	26.30	26.8	3	
16	16QAM	36	0	26.02	26.28	26.12	26.10	26.14			
16	16QAM	36	20	26.01	26.28	26.19	26.06	26.02			
16	16QAM	36	36	26.04	26.35	26.21	26.07	26.04	26.8	4	
16	16QAM	75	0	26.11	26.44	26.18	26.02	26.10			
16	64QAM	1	0	26.03	26.03	26.01	26.24	26.20	26.8	4	
16	64QAM	1	37	26.06	26.17	26.08	26.05	26.01			
16	64QAM	1	74	26.04	26.28	26.23	26.08	26.00			
16	64QAM	36	0	26.07	26.29	26.19	26.25	26.10	23.8	3	
16	64QAM	36	20	26.14	26.29	26.18	26.22	26.17			
16	64QAM	36	36	26.04	26.35	26.07	26.03	26.00			
16	64QAM	75	0	26.31	26.15	26.12	26.05	26.07	21.8	5	
16	256QAM	1	0	26.02	26.04	26.17	26.10	26.01			
16	256QAM	1	37	26.01	26.09	26.07	26.02	26.14			
16	256QAM	1	74	26.03	26.13	26.08	26.10	26.12	21.8	5	
16	256QAM	36	0	26.03	26.10	26.04	26.13	26.05			
16	256QAM	36	20	26.18	26.23	26.17	26.07	26.07			
16	256QAM	36	36	26.16	26.22	26.10	26.07	26.07	21.8	5	
16	256QAM	75	0	26.13	26.15	26.09	26.14	26.08			
16	256QAM	75	0	26.03	26.19	26.05	26.05	26.19			
Channel											
Frequency (MHz)											
16	QPSK	1	0	26.16	26.13	26.07	26.08	26.09	26.8	0	
16	QPSK	1	26	26.02	26.12	26.00	26.00	26.06			
16	QPSK	1	48	26.07	26.13	26.14	26.12	26.00			
16	QPSK	36	0	26.02	26.20	26.13	26.15	26.15	26.8	1	
16	QPSK	36	12	26.05	26.41	26.31	26.07	26.21			
16	QPSK	36	26	26.02	26.39	26.26	26.05	26.11			
16	QPSK	75	0	26.07	26.38	26.27	26.07	26.18	26.8	2	
16	16QAM	1	0	26.02	26.41	26.32	26.25	26.43			
16	16QAM	1	26	26.09	26.47	26.39	26.14	26.27			
16	16QAM	1	48	26.36	26.42	26.40	26.09	26.18	26.8	3	
16	16QAM	36	0	26.05	26.18	26.28	26.17	26.25			
16	16QAM	36	12	26.02	26.38	26.27	26.16	26.14			
16	16QAM	36	26	26.05	26.42	26.30	26.05	26.19	26.8	4	
16	16QAM	75	0	26.12	26.42	26.32	26.13	26.14			
16	64QAM	1	0	26.05	26.11	26.04	26.22	26.16			
16	64QAM	1	25	26.30	26.19	26.04	26.31	26.17	26.8	5	
16	64QAM	1	48	26.03	26.25	26.25	26.00	26.00			
16	64QAM	25	0	26.46	26.01	26.22	26.41	26.22			
16	64QAM	25	12	26.22	26.18	26.19	26.29	26.33	23.8	3	
16	64QAM	25	25	26.15	26.46	26.17	26.08	26.10			
16	64QAM	25	0	26.21	26.13	26.18	26.32	26.08			
16	256QAM	1	0	26.06	26.04	26.09	26.10	26.07	21.8	5	
16	256QAM	1	25	26.04	26.03	26.01	26.05	26.02			
16	256QAM	1	48	26.14	26.10	26.06	26.00	26.10			
16	256QAM	25	0	26.03	26.09	26.12	26.12	26.03	21.8	5	
16	256QAM	25	12	26.07	26.24	26.28	26.12	26.07			
16	256QAM	25	25	26.07	26.19	26.10	26.11	26.05			
16	256QAM	50	0	26.02	26.18	26.09	26.14	26.11	21.8	5	
16	256QAM	50	0	26.02	26.18	26.09	26.14	26.11			
16	256QAM	50	0	26.02	26.18	26.09	26.14	26.11			
Channel											
Frequency (MHz)											
5	QPSK	1	0	26.16	26.12	26.01	26.01	26.04	26.8	0	
5	QPSK	1	12	26.09	26.14	26.09	26.13	26.07			
5	QPSK	1	24	26.02	26.12	26.05	26.05	26.19			
5	QPSK	12	0	26.00	26.38	26.26	26.06	26.09	26.8	1	
5	QPSK	12	7	26.04	26.39	26.23	26.06	26.15			
5	QPSK	12	13	26.04	26.36	26.24	26.01	26.13			
5	QPSK	26	0	26.05	26.34	26.19	26.05	26.07	26.8	2	
5	16QAM	1	0	26.06	26.40	26.26	26.04	26.23			
5	16QAM	1	12	26.22	26.42	26.41	26.08	26.29			
5	16QAM	1	24	26.27	26.49	26.37	26.02	26.12	26.8	3	
5	16QAM	12	0	26.02	26.41	26.34	26.01	26.11			
5	16QAM	12	7	26.07	26.43	26.32	26.08	26.16			
5	16QAM	12	13	26.15	26.41	26.25	26.07	26.10	26.8	4	
5	16QAM	25	0	26.17	26.38	26.28	26.08	26.17			
5	64QAM	1	0	26.08	26.08	26.04	26.34	26.03	26.8	5	
5	64QAM	1	12	26.01	26.00	26.04	26.23	26.20			
5	64QAM	1	24	26.08	26.20	26.27	26.02	26.06			
5	64QAM	12	0	26.00	26.02	26.14	26.41	26.05	23.8	3	
5	64QAM	12	7	26.09	26.12	26.18	26.23	26.22			
5	64QAM	12	13	26.11	26.42	26.15	26.05	26.06			
5	64QAM	25	0	26.14	26.20	26.03	26.05	26.04	21.8	5	
5	256QAM	1	0	26.00	26.10	26.07	26.05	26.02			
5	256QAM	1	12	26.04	26.08	26.00	26.09	26.12			
5	256QAM	1	24	26.03	26.07	26.08	26.04	26.05	21.8	5	
5	256QAM	12	0	26.10	26.03	26.16	26.06	26.00			
5	256QAM	12	7	26.09	26.23	26.15	26.14	26.06			
5	256QAM	12	13	26.13	26.18	26.14	26.15	26.04	21.8	5	
5	256QAM	25	0	26.09	26.10	26.15	26.04	26.12			



Reduced Power level 1 for Head – UAT

GSM900		Sust-Average Power (dBm)			Tx-slot		Frame-Average Power (dBm)			Tx-slot	
Tx Channel		124	198	261	Tx Channel		124	198	261	Tx-slot	
Frequency (MHz)		824.2	834.4	844.8	Frequency (MHz)		824.2	834.4	844.8	Frequency (MHz)	
GSM 1 Tx slot		31.20	31.35	30.92	GSM 1 Tx slot	31.19	22.20	22.35	21.92	22.70	
GSM 1 Tx slot		31.18	31.32	30.90	GSM 1 Tx slot	31.19	22.18	22.33	21.90	22.70	
GPRS 2 Tx slots		27.98	28.28	28.15	GPRS 2 Tx slots	29.08	21.96	22.25			
GPRS 3 Tx slots		26.49	26.74	26.55	GPRS 3 Tx slots	27.55	22.23	22.48	22.29	22.50	
GPRS 4 Tx slots		25.83	26.46	25.28	GPRS 4 Tx slots	26.79	22.53	22.48	22.26	22.71	
EDGE 1 Tx slot		25.83	25.54	25.74	EDGE 1 Tx slot	26.69	18.58	18.54			
EDGE 2 Tx slot		25.82	25.67	25.81	EDGE 2 Tx slot	24.46	17.82	17.97	17.81	18.46	
EDGE 3 Tx slot		25.88	25.62	25.15	EDGE 3 Tx slot	23.35	18.72	18.76	18.84	18.54	
EDGE 4 Tx slot		22.14	22.25	22.32	EDGE 4 Tx slot	22.89	19.14	19.23			

		Band Average Power (dBm)			F-Channel Average Power (dBm)		
Tx Channel		512	561	515	512	561	515
Frequency (MHz)		1600.2	1600.5	1600.8	1600.2	1600.5	1600.8
GSM 1 Tx slot		24.15	24.06	24.01	25.08	15.15	15.09
GPRS 3 Tx slots		24.13	23.98	23.99	23.60	15.13	14.98
EDGE 1 Tx slot		21.15	20.94	20.77	22.09	15.15	14.94
EDGE 2 Tx slots		18.32	18.12	18.04	20.09	15.09	14.88
EDGE 3 Tx slots		16.35	16.32	16.34	20.06	15.28	15.25
EDGE 4 Tx slots		18.28	18.25	18.08	20.06	15.28	15.25
GPRS 4 Tx slots		24.02	23.88	23.85	23.60	15.02	14.88
EDGE 2 Tx slots		21.01	20.94	20.88	21.09	15.01	14.94
EDGE 3 Tx slots		19.30	19.12	19.05	18.78	14.84	14.86
EDGE 4 Tx slots		18.22	18.25	18.12	18.70	15.22	15.25

Band				WCDMA V				WCDMA V			
Tx Channel		Sust-Average Power (dBm)		Tx Channel		Sust-Average Power (dBm)		Tx Channel		Sust-Average Power (dBm)	
Frequency (MHz)		9052	9052	9058	Frequency (MHz)		9052	Frequency (MHz)		Frequency (MHz)	
3GPP Rel 99		17.28	17.40	17.34	3GPP Rel 99		18.02	3GPP Rel 99		22.50	22.82
3GPP Rel 99		17.30	17.42	17.38	3GPP Rel 99		18.08	3GPP Rel 99		22.53	22.85
3GPP Rel 99		16.37	16.26	16.48	3GPP Rel 99		17.08	3GPP Rel 99		21.85	21.65
3GPP Rel 99		16.37	16.12	16.52	3GPP Rel 99		17.08	3GPP Rel 99		21.46	21.50
3GPP Rel 99		15.84	15.88	15.80	3GPP Rel 99		17.08	3GPP Rel 99		21.13	21.17
3GPP Rel 99		15.83	15.81	15.84	3GPP Rel 99		17.08	3GPP Rel 99		21.21	21.15
3GPP Rel 99		16.28	16.15	16.47	3GPP Rel 99		17.08	3GPP Rel 99		21.42	21.57
3GPP Rel 99		15.25	15.28	15.43	3GPP Rel 99		17.08	3GPP Rel 99		21.41	21.45
3GPP Rel 99		15.74	15.68	15.81	3GPP Rel 99		17.08	3GPP Rel 99		20.98	21.08
3GPP Rel 99		15.73	15.64	15.93	3GPP Rel 99		17.08	3GPP Rel 99		20.93	21.04
3GPP Rel 99		16.22	16.42	16.34	3GPP Rel 99		17.08	3GPP Rel 99		21.76	22.02
3GPP Rel 99		14.31	14.58	14.38	3GPP Rel 99		16.80	3GPP Rel 99		19.61	19.84
3GPP Rel 99		13.37	13.37	13.43	3GPP Rel 99		14.80	3GPP Rel 99		18.42	18.61
3GPP Rel 99		14.08	14.20	14.01	3GPP Rel 99		14.80	3GPP Rel 99		19.38	19.63
3GPP Rel 99		16.30	16.50	16.40	3GPP Rel 99		17.08	3GPP Rel 99		21.20	21.22
3GPP Rel 99		14.80	14.80	14.72	3GPP Rel 99		16.80	3GPP Rel 99		19.84	19.84

Band		CDMA BC1			CDMA BC1			
Tx Channel		1913	304	777	25		800	1175
Frequency (MHz)		824.7	836.52	848.1	1851.25	1860	1868	1896.75
BC1 BCSS		23.38	23.44	23.40	23.50	17.57	17.57	17.54
BC1 BCSS		23.38	23.41	23.39	23.50	17.49	17.58	17.52
BC1 BCSS (F+DCS)		23.38	23.42	23.37	23.50	17.47	17.56	17.51
BC1 BCSS (F+DCS)		23.34	23.40	23.35	23.50	17.48	17.57	17.53
BC1 BCSS (F+DCS)		23.32	23.38	23.34	23.50	17.45	17.51	17.48
BC1 BCSS (F+DCS)		23.30	23.37	23.33	23.50	17.43	17.49	17.47

[illegible]



Band 26 (100Watts Band)												
Part 24E												
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Ch./F/Freq.	Power Ch./F/Freq.	Power Ch./F/Freq.	Time-out (min)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	17.40	17.51	17.42	18.5	0				
20	QPSK	1	49	17.42	17.56	17.45						
20	QPSK	1	99	17.52	17.43	17.59						
20	QPSK	50	24	17.38	17.46	17.41	18.5	0				
20	QPSK	50	74	17.47	17.41	17.49						
20	QPSK	50	124	17.33	17.43	17.35						
20	QPSK	100	24	17.38	17.48	17.41	18.5	0				
20	QPSK	100	74	17.40	17.44	17.35						
20	QPSK	100	124	17.34	17.36	17.40						
20	QPSK	1	49	17.41	17.40	17.47	18.5	0				
20	QPSK	1	99	17.36	17.33	17.41						
20	QPSK	50	24	17.36	17.36	17.35						
20	QPSK	50	74	17.39	17.33	17.33	18.5	0				
20	QPSK	50	124	17.34	17.36	17.40						
20	QPSK	100	24	17.35	17.37	17.38						
20	QPSK	100	74	17.46	17.46	17.52	18.5	0				
20	QPSK	100	124	17.41	17.46	17.48						
20	QPSK	1	49	17.45	17.45	17.45	18.5	0				
20	QPSK	1	99	17.43	17.43	17.44						
20	QPSK	50	24	17.38	17.40	17.38						
20	QPSK	50	74	17.39	17.39	17.35	18.5	0				
20	QPSK	50	124	17.37	17.38	17.30						
20	QPSK	100	24	17.35	17.38	17.31						
Channel												
Frequency (MHz)												
16	QPSK	1	0	17.30	17.40	17.30	18.5	0				
16	QPSK	1	37	17.40	17.34	17.38						
16	QPSK	1	74	17.30	17.36	17.31						
16	QPSK	36	0	17.29	17.10	17.12	18.5	0				
16	QPSK	36	20	17.37	17.34	17.17						
16	QPSK	36	24	17.30	17.36	17.31						
16	QPSK	75	0	17.38	17.30	17.08	18.5	0				
16	QPSK	1	0	17.43	17.30	17.33						
16	QPSK	1	37	17.17	17.34	17.39						
16	QPSK	1	74	17.14	17.17	17.14	18.5	0				
16	QPSK	36	0	17.15	17.22	17.34						
16	QPSK	36	20	17.36	17.23	17.37						
16	QPSK	75	0	17.36	17.26	17.08	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.5	0				
16	QPSK	1	37	17.32	17.26	17.31						
16	QPSK	1	74	17.32	17.26	17.31						
16	QPSK	36	0	17.28	17.26	17.28	18.5	0				
16	QPSK	36	20	17.27	17.30	17.14						
16	QPSK	36	24	17.28	17.32	17.14						
16	QPSK	75	0	17.25	17.24	17.32	18.					

Band 3(only on channel required)												
EW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch. (Fwh)	Power Middle Ch. (Fwh)	Power High Ch. (Fwh)	Turn-up test (dBm)	MFR (dB)				
Channel												
Frequency (MHz)				37650	38050	38150						
20	QPSK	1	0	17.24	17.02	17.11	18	0				
20	QPSK	1	40	17.21	17.19	17.08						
20	QPSK	1	80	17.27	17.23	17.26						
20	QPSK	50	0	17.18	17.11	17.01						
20	QPSK	50	24	17.25	17.20	17.23	18	0				
20	QPSK	50	50	17.15	17.01	17.07						
20	QPSK	100	0	17.21	17.17	17.20						
20	16QAM	1	0	17.00	16.82	16.74						
20	16QAM	1	40	16.97	16.85	16.87	18	0				
20	16QAM	1	80	17.04	17.00	16.96						
20	16QAM	50	0	16.98	16.89	17.03						
20	16QAM	50	24	17.06	17.00	16.97						
20	16QAM	50	50	17.17	17.10	17.05	18	0				
20	16QAM	100	0	17.05	16.94	16.91						
20	256QAM	1	0	17.04	17.02	17.00						
20	256QAM	1	40	17.02	17.03	16.99	18	0				
20	256QAM	1	80	17.01	17.00	16.98						
20	256QAM	50	0	17.28	17.26	17.22						
20	256QAM	50	24	17.24	17.23	17.20						
20	256QAM	50	50	17.22	17.21	17.17	18	0				
20	256QAM	100	0	17.22	17.24	17.16						
Channel												
Frequency (MHz)				37653	38053	38179				Turn-up test (dBm)	MFR (dB)	
15	QPSK	1	0	17.09	16.96	16.97	18	0				
15	QPSK	1	37	17.11	17.11	17.12						
15	QPSK	1	74	17.24	17.21	17.22						
15	QPSK	36	0	17.08	17.18	16.88						
15	QPSK	36	36	16.98	17.12	17.10	18	0				
15	QPSK	36	72	17.03	16.96	16.92						
15	QPSK	75	0	16.91	16.88	17.07						
15	16QAM	1	0	17.12	16.93	16.91						
15	16QAM	1	37	16.99	17.00	16.98	18	0				
15	16QAM	1	74	17.16	17.02	17.02						
15	16QAM	36	0	16.86	17.16	17.08						
15	16QAM	36	36	17.04	17.12	17.01						
15	16QAM	36	72	17.08	17.23	17.19	18	0				
15	16QAM	75	0	17.18	17.02	17.08						
15	16QAM	1	0	17.09	16.90	17.03						
15	16QAM	1	37	17.16	16.88	17.03						
15	16QAM	1	74	17.11	17.01	17.00	18	0				
15	16QAM	36	0	16.97	17.16	17.01						
15	16QAM	36	36	17.04	17.12	17.05						
15	16QAM	36	72	17.14	17.06	17.05						
15	16QAM	75	0	17.03	17.10	17.13	18	0				
15	256QAM	1	0	17.03	17.06	16.90						
15	256QAM	1	37	17.07	16.92	17.00						
15	256QAM	1	74	16.80	16.79	17.01						
15	256QAM	36	0	17.14	17.14	17.14						
15	256QAM	36	36	17.10	17.18	16.98						
15	256QAM	36	72	17.08	17.02	16.98						
15	256QAM	75	0	16.99	17.00	16.98						
Channel												
Frequency (MHz)				37660	38060	38200	Turn-up test (dBm)	MFR (dB)				
10	QPSK	1	0	17.05	16.82	16.97	18	0				
10	QPSK	1	25	16.94	16.95	16.82						
10	QPSK	1	49	17.24	17.23	17.08						
10	QPSK	25	0	16.95	17.12	16.88						
10	QPSK	25	12	16.97	16.88	17.08	18	0				
10	QPSK	25	25	17.04	17.03	16.72						
10	QPSK	50	0	17.16	16.94	17.09						
10	16QAM	1	0	17.15	16.79	16.76						
10	16QAM	1	25	16.87	17.04	16.94	18	0				
10	16QAM	1	49	17.03	16.86	16.93						
10	16QAM	25	0	17.03	16.89	17.13						
10	16QAM	25	12	17.12	16.89	17.04						
10	16QAM	25	25	17.07	17.28	17.03	18	0				
10	16QAM	50	0	16.95	16.77	17.06						
10	16QAM	1	0	17.19	17.01	16.88						
10	16QAM	1	25	17.13	16.88	16.87						
10	16QAM	1	49	16.93	17.04	16.94	18	0				
10	16QAM	25	0	16.94	17.00	17.01						
10	16QAM	25	12	16.95	16.98	17.04						
10	16QAM	25	25	16.96	17.07	17.04						
10	16QAM	50	0	17.17	16.96	16.94	18	0				
10	256QAM	1	0	17.06	16.94	17.04						
10	256QAM	1	25	17.01	16.79	17.03						
10	256QAM	1	49	16.82	16.93	16.72						
10	256QAM	25	0	17.03	17.00	17.16	18	0				
10	256QAM	25	12	17.04	17.10	17.21						
10	256QAM	25	25	17.27	17.14	16.92						
10	256QAM	50	0	17.21	17.02	17.21						
Channel												
Frequency (MHz)				37775	38080	38220				Turn-up test (dBm)	MFR (dB)	
5	QPSK	1	0	16.99	17.00	16.98	18	0				
5	QPSK	1	12	16.95	16.92	17.00						
5	QPSK	1	24	17.06	17.04	17.24						
5	QPSK	12	0	16.99	17.01	16.85						
5	QPSK	12	7	17.06	17.06	16.94	18	0				
5	QPSK	12	13	16.99	17.03	16.85						
5	QPSK	25	0	17.08	17.10	17.22						
5	16QAM	1	0	16.95	16.71	16.89						
5	16QAM	1	12	17.06	16.97	16.80	18	0				
5	16QAM	1	24	17.16	17.06	17.06						
5	16QAM	12	0	17.06	17.01	17.12						
5	16QAM	12	7	17.16	17.16	16.91						
5	16QAM	12	13	17.21	17.19	17.16	18	0				
5	16QAM	25	0	16.92	16.86	17.07						
5	16QAM	1	0	17.17	17.00	16.77						
5	16QAM	1	12	17.05	16.94	16.96						
5	16QAM	1	24	16.93	16.86	17.11	18	0				
5	16QAM	12	0	17.07	17.00	16.96						
5	16QAM	12	7	17.02	16.91	16.85						
5	16QAM	12	13	16.85	17.21	17.13						
5	16QAM	25	0	17.02	17.02	16.97	18	0				
5	16QAM	1	0	16.96	16.87	17.05						
5	256QAM	1	12	16.99	16.83	17.00						
5	256QAM	1	24	16.76	17.00	16.96						
5	256QAM	12	0	17.12	17.00	17.25	18	0				
5	256QAM	12	7	17.15	17.13	17.21						
5	256QAM	12	13	17.03	16.99	16.94						
5	256QAM	25	0	17.12	17.20	16.99						

Band 41 (2.6G Band)										
EW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch. (Fwh)	Power Low Middle Ch. (Fwh)	Power Middle Ch. (Fwh)	Power High Middle Ch. (Fwh)	Power High Ch. (Fwh)	Turn-up test (dBm)	MFR (dB)
Channel										
Frequency (MHz)				36970	40180	40600	41000	41460		
20	QPSK	1	0	17.27	17.33	17.37	17.32	17.36	18	0
20	QPSK	1	40	17.30	17.37	17.38	17.31	17.35		
20	QPSK	1	80	17.32	17.43	17.39	17.30	17.41		
20	QPSK	50	0	17.22	17.29	17.23	17.28	17.24		
20	QPSK	50	40	17.29	17.40	17.37	17.32	17.38	18	0
20	QPSK	50	80	17.31	17.27	17.26	17.31	17.16		
20	QPSK	100	0	17.28	17.38	17.33	17.27	17.35		
20	16QAM	1	0	17.08	17.21	17.20	17.14	17.17		
20	16QAM	1	40	17.10	17.18	16.91	17.14	17.11	18	0
20	16QAM	1	80	17.08	17.29	17.28	17.28	17.31		
20	16QAM	50	0	17.11	17.15	17.09	17.13	17.09		
20	16QAM	50	40	17.30	17.18	17.26	17.25	17.40		
20	16QAM	50	80	17.28	17.20	17.24	17.21	17.24	18	0
20	16QAM	100	0	17.10	17.16	17.10	17.14	17.10		
20	64QAM	1	0	17.06	16.93	17.02	17.03	17.11		
20	64QAM	1	40	17.31	17.30	17.27	17.07	17.12		
20	64QAM	1	80	17.13	17.17	17.17	17.07	17.12	18	0
20	64QAM	50	0	17.10	17.14	17.14	17.13	17.26		
20	64QAM	50	40	17.21	17.18	17.16	17.38	17.30		
20	64QAM	100	0	17.16	17.17	17.14	17.16	17.30		
20	256QAM	1	0	17.31	17.08	17.24	17.26	17.32	18	0
20	256QAM	1	40	17.21	17.02	17.18	17.25	17.30		
20	256QAM	1	80	17.20	17.00	17.09	17.28	17.31		
20	256QAM	50	0	17.30	17.22	17.28	17.26	17.31		
20	256QAM	50	40	17.30	17.20	17.25	17.22	17.30	18	0
20	256QAM	50	80	17.32	17.10	17.17	17.27	17.28		
20	256QAM	100	0	17.31	17.23	17.26	17.34	17.31		
20	256QAM	100	0	17.31	17.23	17.26	17.34	17.31		
Channel										
Frequency (MHz)				36970	41720	40600	41000	41565	Turn-up test (dBm)	MFR (dB)
15	QPSK	1	0	17.17	17.18	17.22	17.12	17.16	18	0
15	QPSK	1	37	17.10	17.31	17.31	17.26	17.40		
15	QPSK	1	74	17.02	17.14	17.23	17.10	17.30		
15	QPSK	36	0	17.08	17.13	17.28	17.15	17.21		
15	QPSK	36	20	17.30	17.30	17.28	17.10	17.34	18	0
15	QPSK	36	30	17.18	17.27	17.25	17.24	17.23		
15	QPSK	1	0	17.16	17.42	17.20	17.16	17.20		
15	16QAM	1	0	17.02	16.90	17.22	16.96	17.07		
15	16QAM	1	37	17.07	17.26	17.14	17.20	17.38	18	0
15	16QAM	1	74	17.08	17.22	16.98	16.98	17.29		
15	16QAM	36	0	17.02	17.13	17.28	17.15	17.21		
15	16QAM	36	20	17.12	17.13	17.21	17.17	17.32		
15	16QAM	36	30	17.22	17.23	17.41	17.17	17.32	18	0
15	64QAM	1	0	17.14	17.13	17.20	17.23	17.23		
15	64QAM	1	0	17.00	17.18	16.98	17.17	16.99		
15	64QAM	1	37	16.83	17.18	17.19	16.88	17.31		
15	64QAM	36	74	16.94	16.94	16.94	16.94	17.00	18	0
15	64QAM	36	20	17.07	17.21	17.30	17.18	17.34		
15	64QAM	36	30	17.23	17.05	17.22	16.94	17.36		
15	64QAM	36	30	17.10	17.12	17.35	16.96	17.03		
15	256QAM	1	0	16.98	17.21	17.07	17.07	17.15	18	0
15	256QAM	1	0	17.19	16.89	17.10	17.06	17.22		
15	256QAM	1	37	17.03	16.88	17.13	17.07	17.33		
15	256QAM	36	0	17.17	17.04	17.26	17.13	17.26		
15	256QAM	36	20	17.10	17.13	17.57	17.16	17.13	18	0
15	256QAM	36	30	17.08	17.13	17.57	17.16	17.13		
15	256QAM	75	0	17.34	17.07	17.22	17.12	17.14		
15	256QAM	75	0	17.34	17.07	17.22	17.12	17.14		
Channel										
Frequency (MHz)				36970	41160	40600	41000	41540	Turn-up test (dBm)	MFR (dB)
10	QPSK	1	0	17.22	17.17	17.36	17.20	17.30	18	0
10	QPSK	1	26	17.10	17.16	17.14	17.28	17.30		
10	QPSK	1	49	16.94	17.30	17.24	16.96	17.39		
10	QPSK	1	49	16.93	17.27	17.27	17.27	17.33		
10	QPSK	25	12	17.20	17.27	17.17	17.11	17.27	18	0
10	QPSK	25	20	17.19	17.36	17.27	17.11	17.35		
10	QPSK	100	0	17.13	17.16	17.20	17.27	17.33		
10	16QAM	1	0	16.98	17.01	17.16	17.01	17.16		
10	16QAM	1	26	17.20	17.39	17.03	17.12	17.42	18	0
10	16QAM	1	49	16.94	17.16	17.16	16.98	17.12		
10	16QAM	25	12	17.00	17.22	17.12	17.00	17.23		
10	16QAM	25	12	17.02	17.36	17.14	17.07	17.19		
10	16QAM	25	20	17.12	17.22	17.15	17.14	17.26	18	0
10	16QAM	25	20	16.94	17.22	17.15	17.14	17.28		
10	64QAM	1	0	17.10	17.05	17.05	17.08	17.03		
10	64QAM	1	26	16.77	17.22	17.09	16.79	17.08		
10	64QAM	25	12	16.82	17.09	17.03	16.84	17.19	18	0
10	64QAM	25	12	17.14	17.22	17.33	17.11	17.30		
10	64QAM	25	12	17.19	17.01	17.13	17.04	17.22		
10	64QAM	25	20	17.24	17.08	17.21	17.14	16.98		
10	256QAM	1	0	16.91	16.92	17.00	16.92	17.04	18	0
10	256QAM	1	0	17.06	17.06	17.00	17.13	17.18		
10	256QAM	1	26	17.20	17.06	17.11	17.15	17.20		
10	256QAM	25	0	17.24	17.06	17.12	17.26	17.27		
10	256QAM	25	0	17.15	17.28	17.21	17.16	17.18	18	0
10	256QAM	25	12	17.33	17.16	17.07	17.10	17.25		
10	256QAM	25	12	17.20	17.16	17.20	17.27	17.33		
10	256QAM	50	0	17.08	17.22	17.24	17.05	17.43		
Channel										
Frequency (MHz)				36970	40140	40600	41000	41565	Turn-up test (dBm)	MFR (dB)
5	QPSK	1	12	17.04	17.17	17.33	17.24	17.27	18	0
5	QPSK	1	12	17.27	17.15	17.08	17.07	17.13		
5	QPSK	1	24	16.96	17.26	17.61	17.03	17.21		
5	QPSK	1	24	17.01	17.21	17.17	17.17	17.23		
5	QPSK	12	7	17.32	17.11	17.17	17.09	17.12	18	0
5	QPSK	25	17	17.33	17.32	17.21	17.12	17.19		
5	QPSK	25	17	17.14	17.33	17.20	17.17	17.26		
5	16QAM	1	0	17.11	17.04	17.00	16.96	17.14		
5	16QAM	1	12	17.06	17.42	17.17	17.06	17.39	18	0
5	16QAM	1	24	17.16	17.13	17.22	17.10	17.31		
5	16QAM	12	7	16.98	17.21	17.18	17.13	17.17		
5	16QAM	12	7	17.12	17.35	17.30	17.13	17.26		
5	16QAM	12	13	17.02	17.30	17.19	17.22	17.35	18	0
5	16QAM	25	0	17.02	17.26	17.13	17.11	17.23		
5	64QAM	1	0	16.90	17.03	17.09	17.13	17.04		
5	64QAM	1	12	16.80	17.21	17.22	16.81	17.26		
5	64QAM	25	24	16.91	17.16	17.16	16.98	17.01	18	0
5	64QAM	12	7	16.93	17.22	17.21	17.08	17.21		
5	64QAM	12	7	16.91	17.18	17.19	17.00	17.12		
5	64QAM	12	13	16.96	17.12	17.10	17.26	17.13		
5	256QAM	1	0	16.70	16.86	17.23	17.34	17.23	18	0
5	256QAM	1	0	17.03	17.00	17.06	17.14	17.11		
5	256QAM	12	0	17.16	16.83	17.10	17.07	17.21		
5	256QAM	12	7	17.15	17.20	17.14	17.05	17.18		
5	256QAM	12	13	17.21	17.10	17.03	17.19	17.26	18	0
5	256QAM	12	13	17.05	17.10	17.25	17.01	17.28		



Band 41 (2.60 Band) HPUE (Link 27)															
BW (MHz)	Modulation	RB Size	RB Offset	Power					Time-up (ms) (dBm)	MPER (dB)					
				Power Low Co. (Fwh)	Power Low Middle Co. (Fwh)	Power Mid Co. (Fwh)	Power High Middle Co. (Fwh)	Power High Fwh							
Channel															
Frequency (MHz)															
20	QPSK	1	0	18.99	19.02	18.91	18.95	19.11	10.0	0					
20	QPSK	1	40	18.81	19.06	19.01	19.07	19.06							
20	QPSK	1	80	19.11	19.20	19.13	19.10	19.15							
20	QPSK	50	0	19.07	19.09	18.98	19.06	19.08							
20	QPSK	50	24	19.08	19.18	19.11	19.08	19.12	10.0	0					
20	QPSK	50	48	19.04	19.04	18.84	18.80	18.86							
20	QPSK	100	0	19.05	19.18	19.08	19.04	19.10							
20	16QAM	1	0	19.16	19.16	19.06	19.03	19.13							
20	16QAM	1	40	19.06	19.07	18.86	18.84	19.18	10.0	0					
20	16QAM	1	80	19.07	19.06	18.88	18.85	19.04							
20	16QAM	50	0	19.03	19.07	18.79	18.72	19.14							
20	16QAM	50	24	19.10	19.10	18.86	18.87	19.00							
20	16QAM	50	48	19.04	19.09	18.91	18.96	19.18	10.0	0					
20	16QAM	100	0	19.10	19.09	18.88	18.80	19.07							
20	64QAM	1	0	19.18	19.18	19.03	19.07	19.15							
20	64QAM	1	40	19.18	19.03	18.95	19.07	19.07							
20	64QAM	1	80	19.14	19.06	19.06	19.11	19.13	10.0	0					
20	64QAM	50	0	19.09	19.05	18.92	19.07								
20	64QAM	50	24	19.06	19.14	18.99	19.16	19.08							
20	64QAM	100	0	19.07	19.14	19.02	19.13	19.12							
20	256QAM	1	0	19.18	19.08	19.12	19.06	19.15	10.0	0					
20	256QAM	1	40	19.17	19.06	19.10	19.05	19.14							
20	256QAM	1	80	19.14	19.02	19.08	19.02	19.12							
20	256QAM	50	0	19.14	19.09	19.13	19.07	19.15							
20	256QAM	50	24	19.10	19.07	19.11	19.15	19.18	10.0	0					
20	256QAM	50	48	19.10	19.04	19.19	19.14	19.19							
20	256QAM	100	0	19.13	19.12	19.17	19.16	19.13							
Channel															
Frequency (MHz)															
15	QPSK	1	0	19.15	19.15	18.99	19.03	19.04	10.0	0					
15	QPSK	1	37	19.03	19.18	18.89	19.00	19.06							
15	QPSK	1	74	19.73	19.80	19.02	19.72	19.84							
15	QPSK	36	0	19.02	19.09	18.99	19.04	19.09							
15	QPSK	36	20	19.09	19.16	19.05	19.09	19.07	10.0	0					
15	QPSK	36	36	19.03	19.78	19.09	19.08	19.81							
15	QPSK	75	0	19.02	19.07	19.09	19.06	19.08							
15	16QAM	1	0	19.14	19.12	19.17	19.07	19.03							
15	16QAM	1	37	19.80	19.86	19.09	19.97	19.92	10.0	0					
15	16QAM	1	74	19.79	19.74	19.04	19.73	19.92							
15	16QAM	36	0	19.00	19.04	19.02	19.06	19.02							
15	16QAM	36	20	19.12	19.09	19.09	19.07	19.92							
15	16QAM	36	36	19.06	19.85	19.02	19.84	19.87	10.0	0					
15	16QAM	75	0	19.09	19.04	19.05	19.08	19.04							
15	64QAM	1	0	19.14	19.07	19.09	19.09	19.00							
15	64QAM	1	37	19.20	19.01	19.02	19.02	19.92							
15	64QAM	1	74	19.92	19.98	19.19	19.91	19.96	10.0	0					
15	64QAM	36	0	19.06	19.12	19.02	19.06	19.06							
15	64QAM	36	20	19.81	19.19	19.06	19.07	19.94							
15	64QAM	36	36	19.16	19.99	19.02	19.84	19.19							
15	256QAM	1	0	19.02	19.07	19.02	19.04	19.05	10.0	0					
15	256QAM	1	37	19.19	19.93	19.06	19.94	19.96							
15	256QAM	1	74	19.99	19.95	19.01	19.91	19.11							
15	256QAM	36	0	19.04	19.16	19.09	19.01	19.02							
15	256QAM	36	20	19.98	19.94	19.09	19.00	19.17	10.0	0					
15	256QAM	36	36	19.05	19.87	19.15	19.98	19.00							
15	256QAM	75	0	19.03	19.06	19.01	19.01	19.01							
Channel															
Frequency (MHz)															
10	QPSK	1	0	19.02	19.10	19.14	19.06	19.03	10.0	0					
10	QPSK	1	25	19.04	19.09	19.09	19.02	19.04							
10	QPSK	1	49	19.07	19.02	19.01	19.02	19.80							
10	QPSK	25	0	19.05	19.05	19.00	19.02	19.74							
10	QPSK	25	12	19.14	19.14	19.11	19.11	19.81	10.0	0					
10	QPSK	25	25	19.07	19.09	19.09	19.04	19.77							
10	QPSK	50	0	19.07	19.04	18.88	18.91	19.76							
10	16QAM	1	0	19.06	19.12	19.09	19.09	19.10							
10	16QAM	1	25	19.09	19.00	19.03	19.06	19.02	10.0	0					
10	16QAM	1	49	19.73	19.87	19.83	19.80	19.96							
10	16QAM	25	0	19.09	19.09	19.01	19.02	19.83							
10	16QAM	25	12	19.88	19.91	19.86	19.74	19.90							
10	16QAM	25	25	19.83	19.89	19.81	19.85	19.72	10.0	0					
10	16QAM	50	0	19.08	19.08	19.04	19.13	19.87							
10	64QAM	1	0	19.15	19.78	19.09	19.04	19.83							
10	64QAM	1	25	19.15	19.90	19.00	19.12	19.79							
10	64QAM	1	49	19.04	19.82	19.12	19.11	19.78	10.0	0					
10	64QAM	25	0	19.07	19.13	19.09	19.07	19.92							
10	64QAM	25	12	19.03	19.04	19.01	19.07	19.09							
10	64QAM	25	25	19.01	19.98	19.14	19.00	19.19							
10	64QAM	50	0	19.04	19.06	19.06	19.09	19.19	10.0	0					
10	256QAM	1	0	19.10	19.04	19.10	19.02	19.98							
10	256QAM	1	25	19.16	19.81	19.15	19.05	19.19							
10	256QAM	1	49	19.08	19.95	19.09	19.92	19.98							
10	256QAM	25	0	19.04	19.09	19.11	19.06	19.06	10.0	0					
10	256QAM	25	12	19.14	19.93	19.01	19.25	19.12							
10	256QAM	25	25	19.07	19.99	19.06	19.12	19.15							
10	256QAM	50	0	19.03	19.06	19.02	19.06	19.01							
Channel															
Frequency (MHz)															
5	QPSK	1	0	19.73	19.87	19.72	19.98	19.99	10.0	0					
5	QPSK	1	12	19.83	19.74	19.86	19.80	19.77							
5	QPSK	1	24	19.83	19.82	19.63	19.79	19.84							
5	QPSK	12	0	19.58	19.49	19.68	19.79	19.59							
5	QPSK	12	7	19.80	19.57	19.65	19.76	19.74	10.0	0					
5	QPSK	12	13	19.72	19.59	19.61	19.88	19.71							
5	QPSK	24	0	19.68	19.69	19.62	19.68	19.75							
5	QPSK	24	13	19.68	19.67	19.67	19.69	19.72							
5	16QAM	1	0	19.92	19.92	19.81	19.98	19.98	10.0	0					
5	16QAM	1	12	19.91	19.86	19.86	19.91	19.78							
5	16QAM	1	24	19.99	19.93	19.67	19.89	19.92							
5	16QAM	12	0	19.69	19.52	19.69	19.79	19.47							
5	16QAM	12	7	19.77	19.59	19.76	19.74	19.72	10.0	0					
5	16QAM	12	13	19.68	19.55	19.61	19.86	19.55							
5	16QAM	24	0	19.74	19.56	19.74	19.79	19.54							
5	64QAM	1	0	19.82	19.71	19.82	19.87	19.67							
5	64QAM	1	12	19.76	19.74	19.85	19.75	19.67	10.0	0					
5	64QAM	1	24	19.90	19.90	19.84	19.77	19.92							
5	64QAM	12	0	19.79	19.79	19.89	19.79	19.84							
5	64QAM	12	7	19.84	19.73	19.89	19.74	19.70							
5	64QAM	12	13	19.75	19.70	19.86	19.61	19.68	10.0	0					
5	64QAM	24	0	19.79	19.81	19.88	19.78	19.88							
5	256QAM	1	0	19.13	19.08	19.88	19.07	19.16							
5	256QAM	1	12	19.19	19.01	19.90	19.03	19.03							
5	256QAM	1	24	19.17	19.96	19.86	19.87	19.87	10.0	0					
5	256QAM	12	0	19.07	19.01	19.05	19.09	19.06							
5	256QAM	12	7	19.86	19.90	19.89	19.79	19.97							
5	256QAM	12	13	19.90	19.94	19.13	19.99	19.96							



Reduced Power level 2/3 for Head – UAT

GBM60	Band Average Power (dBm)			Turn-up Limit (dBm)	Power Change Power (dBm)			Turn-up Limit (dBm)
	TX Channel	128	198	261	128	198	261	
Frequency (MHz)	854.2	856.4	858.8	859	854.2	856.4	858.8	859
GBM1 Tx out	21.26	21.33	21.36	21.79	22.22	22.33	21.52	22.73
GBM1 1 Tx out	21.18	21.30	20.95	21.70	22.18	22.39	21.99	22.70
GBM1 2 Tx out	27.86	28.26	28.15	29.60	21.86	22.25	22.15	23.03
GBM1 3 Tx out	26.40	26.14	26.95	27.35	22.23	22.45	22.29	23.94
GBM1 4 Tx out	26.93	26.46	26.28	26.79	22.53	22.46	22.29	23.79
EDGE 1 Tx out	25.58	25.54	25.74	26.40	19.60	19.54	19.74	17.90
EDGE 2 Tx out	23.92	23.87	23.91	24.40	17.62	17.67	17.61	18.40
EDGE 3 Tx out	22.68	23.02	23.10	23.35	18.72	18.76	18.84	19.04
EDGE 4 Tx out	22.14	22.23	22.35	22.80	19.14	19.23	19.32	19.89

GBM160	Band Average Power (dBm)			Turn-up Limit (dBm)	Power Change Power (dBm)			Turn-up Limit (dBm)
	TX Channel	859.2	861	863.8	859.2	861	863.8	
Frequency (MHz)	1859.2	1860	1859.8	1860	1859.2	1860	1859.8	1860
GBM1 Tx out	24.15	24.00	24.01	25.60	15.15	15.00	15.01	16.00
GBM1 1 Tx out	24.13	23.96	23.99	25.50	15.13	14.96	14.99	15.93
GBM1 2 Tx out	21.15	20.94	20.77	22.60	15.15	14.94	14.77	15.00
GBM1 3 Tx out	19.35	19.12	19.94	20.50	15.09	14.86	14.69	16.24
GBM1 4 Tx out	18.20	18.25	18.08	20.00	15.25	15.25	15.00	17.00
EDGE 1 Tx out	24.02	23.98	23.85	25.60	15.02	14.98	14.85	16.00
EDGE 2 Tx out	21.01	20.94	20.86	21.60	15.01	14.94	14.86	15.93
EDGE 3 Tx out	19.20	19.12	19.05	19.70	14.99	14.90	14.80	15.44
EDGE 4 Tx out	18.22	18.20	18.10	18.70	15.22	15.22	15.10	16.70

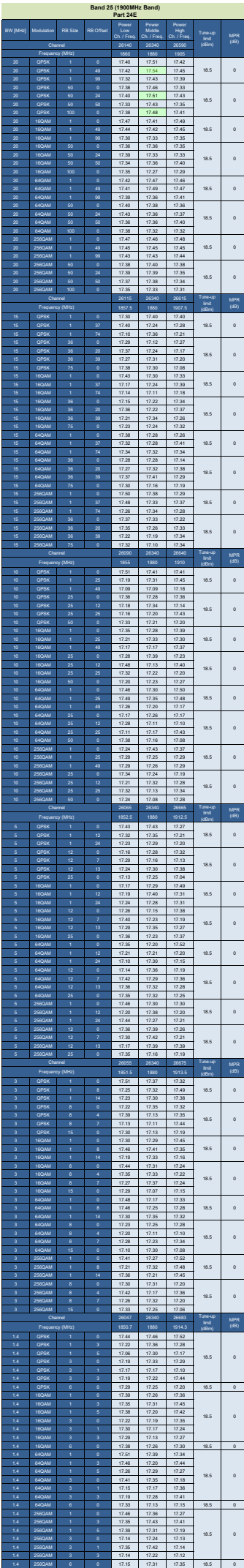
Band				WCDMA V				WCDMA V			
TX Channel	Band Average Power (dBm)			Turn-up Limit (dBm)	Power Change Power (dBm)			Turn-up Limit (dBm)	Power Change Power (dBm)		
	859.2	860	863.8	1312	1413	1513	1613	4132	4152	4232	4332
Frequency (MHz)	1859.2	1860	1859.8	1712.4	1712.4	1712.4	1712.4	4264	4267	4268	4269
SCPP Rel 50	17.28	17.40	17.34	16.60	16.62	16.23	16.15	16.00	21.09	21.16	21.24
SCPP Rel 6	17.30	17.43	17.36	16.56	16.56	16.35	16.15	16.00	21.13	21.22	21.25
SCPP Rel 6	16.37	16.29	16.46	17.45	17.08	17.14	17.17	16.00	20.19	20.31	20.27
SCPP Rel 6	16.37	16.12	16.92	17.40	17.09	17.18	17.13	16.00	20.05	20.34	20.26
SCPP Rel 6	15.84	15.80	15.05	17.60	16.60	16.64	16.67	17.00	19.83	19.73	19.79
SCPP Rel 6	15.83	15.91	15.84	17.60	16.59	16.84	16.84	17.00	19.87	19.83	19.86
SCPP Rel 6	16.26	16.10	16.47	17.60	16.65	16.92	17.00	16.00	19.92	20.10	20.01
SCPP Rel 6	16.25	16.09	16.43	17.60	16.65	16.96	17.01	16.00	20.02	20.24	20.14
SCPP Rel 6	16.74	16.66	16.91	17.60	16.61	16.43	16.51	17.00	19.61	19.78	19.69
SCPP Rel 6	16.73	16.64	16.90	17.60	16.49	16.41	16.49	17.00	19.47	19.62	19.58
SCPP Rel 6	16.22	16.42	16.34	17.60	16.69	16.97	17.02	16.00	20.29	20.52	20.23
SCPP Rel 6	14.31	14.58	14.38	16.60	14.83	15.03	15.04	16.00	18.31	18.52	18.46
SCPP Rel 6	13.57	13.57	13.43	14.60	13.87	14.04	13.93	14.00	17.03	17.26	17.20
SCPP Rel 6	14.08	14.39	14.01	16.60	14.80	14.88	14.89	16.00	18.09	18.52	18.15
SCPP Rel 6	16.30	16.30	16.42	17.60	16.65	17.00	17.00	16.00	19.78	19.89	19.79
SCPP Rel 7	14.62	14.86	14.72	16.60	15.09	15.16	15.16	16.00	18.32	18.56	18.18

Band		CDMA 1X			CDMA 1X			CDMA 1X				
TX Channel	Frequency (MHz)	Band Average Power (dBm)			Turn-up Limit (dBm)	Power Change Power (dBm)			Turn-up Limit (dBm)	Power Change Power (dBm)		
		854.7	856.52	858.31	1611.22	1680	1680.75	1680	417.6	420.5	423.1	424
SC1 SC05	21.87	21.98	21.91	23.00	17.50	17.57	17.54	16.50	23.59	23.56	23.52	24.50
SC1 SC02 (F1&C1)	21.85	21.95	21.88	23.00	17.49	17.56	17.52	16.50	23.58	23.55	23.51	24.50
SC1 SC03 (F1&C2)	21.94	21.95	21.87	23.00	17.47	17.54	17.51	16.50	23.57	23.53	23.50	24.50
SC1 SC04 (F1&C3)	21.84	21.93	21.87	23.00	17.46	17.52	17.50	16.50	23.55	23.52	23.49	24.50
WTAU 16A (SC05)	21.82	21.92	21.85	23.00	17.45	17.51	17.48	16.50	23.53	23.50	23.47	24.50
SC1 SC06 (F1&C4)	21.81	21.91	21.84	23.00	17.43	17.49	17.47	16.50	23.52	23.49	23.45	24.50



MINISTRY OF NATIONAL DEFENSE
T.C. SAKARYA VALİLİĞİ

Band 2 (1900MHz Band) Part 24E									
BW (MHz)	Modulation	RB Slot	RB Offset	Power Ch./F/Freq.	Power Ch./F/Freq.	Power Ch./F/Freq.	Turn-on Time (s)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.33	17.32	17.36			
20	QPSK	1	49	17.35	17.35	17.49	18.5	0	
20	QPSK	1	99	17.36	17.34	17.41			
20	QPSK	1	5	17.35	17.35	17.40			
20	QPSK	50	24	17.34	17.34	17.37	18.5	0	
20	QPSK	50	50	17.31	17.33	17.31			
20	QPSK	100	0	17.34	17.32	17.38			
20	16QAM	1	0	17.30	17.29	17.27			
20	16QAM	1	49	17.21	17.18	17.14	18.5	0	
20	16QAM	1	99	17.07	17.12	17.10			
20	16QAM	1	5	17.12	17.12	17.11			
20	16QAM	50	24	17.23	17.13	17.12	18.5	0	
20	16QAM	50	50	17.18	17.17	17.19			
20	16QAM	100	0	17.16	17.08	17.11			
20	16QAM	1	0	17.21	17.20	17.22			
20	16QAM	1	49	17.27	17.29	17.27	18.5	0	
20	16QAM	1	99	17.11	17.15	17.20			
20	16QAM	50	0	17.15	17.13	17.12			
20	16QAM	50	24	17.23	17.15	17.14	18.5	0	
20	16QAM	50	50	17.19	17.16	17.19			
20	16QAM	100	0	17.21	17.22	17.19			
20	256QAM	1	0	17.26	17.26	17.27			
20	256QAM	1	49	17.25	17.23	17.24	18.5	0	
20	256QAM	1	99	17.26	17.25	17.21			
20	256QAM	1	5	17.23	17.23	17.23			
20	256QAM	50	24	17.30	17.30	17.28	18.5	0	
20	256QAM	50	50	17.26	17.26	17.26			
20	256QAM	100	0	17.23	17.25	17.26			
20	256QAM	1	0	17.23	17.23	17.23			
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.21	17.21	17.21			
15	QPSK	1	37	17.26	17.22	17.26	18.5	0	
15	QPSK	1	74	17.26	17.21	17.23			
15	QPSK	36	0	17.38	17.18	17.12			
15	QPSK	36	20	17.28	17.37	17.27	18.5	0	
15	QPSK	36	40	17.28	17.36	17.27			
15	QPSK	75	0	17.11	17.25	17.17			
15	QPSK	1	49	17.22	17.22	17.22			
15	16QAM	1	0	17.08	17.11	17.04	18.5	0	
15	16QAM	1	37	17.03	17.16	16.98			
15	16QAM	1	74	17.08	16.99	16.90			
15	16QAM	36	0	17.16	17.03	17.11			
15	16QAM	36	20	17.22	16.89	17.17	18.5	0	
15	16QAM	36	40	17.26	17.29	17.19			
15	16QAM	75	0	17.10	17.01	16.91			
15	16QAM	1	0	17.13	17.22	16.96			
15	16QAM	1	37	17.06	17.26	17.04	18.5	0	
15	16QAM	1	74	16.96	17.12	16.98			
15	16QAM	36	0	17.00	17.10	17.02			
15	16QAM	36	20	17.03	17.09	17.04	18.5	0	
15	16QAM	36	40	17.06	17.08	17.05			
15	16QAM	75	0	16.97	16.99	17.05			
15	256QAM	1	0	17.26	17.11	17.14			
15	256QAM	1	37	17.06	17.22	17.12	18.5	0	
15	256QAM	1	74	17.01	17.21	17.01			
15	256QAM	36	0	17.21	17.24	17.17			
15	256QAM	36	20	17.30	17.25	17.21	18.5	0	
15	256QAM	36	40	17.26	17.15	17.22			
15	256QAM	75	0	17.20	17.21	17.35			
Channel									
Frequency (MHz)									
10	QPSK	1	0	17.26	17.13	17.28			
10	QPSK	1	49	17.27	17.26	17.24	18.5	0	
10	QPSK	25	0	17.18	17.33	17.14			
10	QPSK	25	14	17.17	17.17	17.13			
10	QPSK	25	25	17.28	17.13	17.16	18.5	0	
10	QPSK	50	0	17.30	17.10	17.31			
10	QPSK	50	0	17.27	17.09	17.16			
10	QPSK	50	14	17.16	17.17	17.02	18.5	0	
10	16QAM	25	0	16.88	17.05	16.99			
10	16QAM	25	14	17.06	16.94	16.99			
10	16QAM	25	25	17.17	17.06	17.17	18.5	0	
10	16QAM	50	0	17.22	17.12	17.04			
10	16QAM	1	0	17.20	17.01	17.23			
10	16QAM	1	49	17.11	16.96	17.07	18.5	0	
10	16QAM	25	0	17.07	17.00	17.13			
10	16QAM	25	12	17.10	17.08	16.94	18.5	0	
10	16QAM	25	25	17.15	17.15	17.22			
10	16QAM	50	0	17.04	16.88	16.85			
10	256QAM	1	0	17.05	17.16	17.13	18.5	0	
10	256QAM	1	14	17.11	17.12	17.03			
10	256QAM	1	49	17.22	17.13	17.23			
10	256QAM	25	0	17.13	17.24	17.33			
10	256QAM	25	12	17.13	17.21	17.23	18.5	0	
10	256QAM	25	25	17.26	17.27	17.07			
10	256QAM	50	0	17.31	17.16	17.24			
Channel									
Frequency (MHz)									
5	QPSK	1	0	17.17	17.17	17.19			
5	QPSK	1	12	17.15	17.05	17.28	18.5	0	
5	QPSK	1	24	17.30	17.25	17.21			
5	QPSK	1	12	17.22	17.23	17.23			
5	QPSK	12	7	17.34	17.12	17.29	18.5	0	
5	QPSK	12	13	17.23	17.09	17.28			
5	QPSK	25	0	17.24	17.19	17.10			
5	16QAM	1	12	17.14	17.12	17.10			
5	16QAM	1	12	17.08	16.93	17.14	18.5	0	
5	16QAM	1	24	16.94	16.95	17.13			
5	16QAM	1	12	17.03	17.00	17.00			
5	16QAM	12	7	17.22	16.91	16.99	18.5	0	
5	16QAM	12	13	17.08	17.22	17.16			
5	16QAM	25	0	17.24	16.97	17.12			
5	16QAM	1	12	17.13	17.14	17.04	18.5	0	
5	16QAM	1	12	17.19	17.29	17.11			
5	16QAM	12	0	17.08	17.11	17.11			
5	16QAM	12	7	17.27	17.06	17.12	18.5	0	
5	16QAM	12	13	17.18	16.93	17.14			
5	16QAM	25	0	17.14	16.95	16.94			
5	16QAM	25	12	17.26	17.05	17.03	18.5	0	
5	256QAM	1	12	17.14	17.15	17.03			
5	256QAM	1	24	17.06	17.31	17.20			
5	256QAM	12	0	17.25	17.21	17.26	18.5	0	
5	256QAM	12	13	17.26	17.11	17.08			
5	256QAM	25	0	17.19	17.23	17.27			
Channel									
Frequency (MHz)									
3	QPSK	1	0	17.15	17.25	17.36			
3	QPSK	1	8	17.16	17.29	17.23	18.5	0	
3	QPSK	1	16	17.28	17.28	17.29			
3	QPSK	8	0	17.08	17.27	17.33			
3	QPSK	8	4	17.26	17.20	17.39	18.5	0	
3	QPSK	8	7	17.21	17.16	17.10			
3	QPSK	8	3	17.17	17.19	17.23			
3	16QAM	1	0	17.31	17.01	17.27			
3	16QAM	1	8	17.24	17.00	17.16	18.5	0	
3	16QAM	1	16	17.01	17.02	16.90			
3	16QAM	8	0	17.12	16.92	16.89			
3	16QAM	8	4	17.14	17.12	17.09	18.5	0	
3	16QAM	8	7	17.16	17.03	17.09			
3	16QAM	16	0	16.96	17.15	17.01			
3	16QAM	1	0	17.18	17.06	17.26			
3	16QAM	1	8	17.24	17.11	17.05	18.5	0	
3	16QAM	1	16	17.14	17.18	17.13			
3	16QAM	8	0	17.18	17.12	17.11			
3	16QAM	8	7	17.02	17.07	17.08	18.5	0	
3	16QAM	16	0	17.17	16.95	16.98			
3	256QAM	1	0	17.05	17.27	17.23			
3	256QAM	1	8	17.06	17.29	16.99	18.5	0	
3	256QAM	1	16	17.29	17.04	17.09			
3	256QAM	8	0	17.13	17.14	17.34			
3	256QAM	8	4	17.13	17.06	17.06	18.5	0	
3	256QAM	8	7	17.24	17.40	17.11			
3	256QAM	16	0	17.25	17.21	17.21			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	17.09	17.23	17.18			
1.4	QPSK	1	5	17.07	17.21	17.34	18.5	0	
1.4	QPSK	3	0	17.28	17.29	17.19			
1.4	QPSK	3	1	17.12	17.38	17.28			
1.4	QPSK	3	14	17.24	17.15	17.21	18.5	0	
1.4	QPSK	6	0	17.12	17.24	17.34			
1.4	16QAM	1	0	17.08	16.95				
1.4	16QAM	1	5	17.10	17.11	17.11			
1.4	16QAM	3	0	16.91	16.93	16.96	18.5	0	
1.4	16QAM	3	1	16.91	16.91	16.91			
1.4	16QAM	3	14	16.95	16.92	17.00			
1.4	16QAM	6	0	16.93	16.94	16.96			
1.4	16QAM	6	5	17.13	16.98	17.16	18.5	0	
1.4	16QAM	6	11	17.21	17.25	17.14			
1.4	16QAM	6	3	17.22	17.08	17.12			
1.4	16QAM	6	15	16.91	17.15	17.14	18.5	0	
1.4	16QAM	6	17	17.11	17.11	17.11			
1.4	16QAM	6	19	17.11	17.11	17.11			
1.4	16QAM	6	21	17.11	17.11	17.11			
1.4	16QAM	6	23	17.11	17.11	17.11			
1.4	16QAM	6	25	17.11	17.11	17.11			
1.4	16QAM	6	27	17.11					

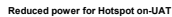


Band 26 for FCC (only on channel required)														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Main Ch./Freq.	Power High Ch./Freq.	Turn-on time (s)	MFR (dB)						
Channel														
Frequency (MHz)														
15	QPSK	1	0	21.31	21.29	21.37	22.5	0						
16	QPSK	1	37	21.28	21.27	21.32								
15	QPSK	1	74	21.26	21.24	21.18								
15	QPSK	36	0	21.26	21.24	21.14	22.5	0						
15	QPSK	36	20	21.29	21.27	21.35								
15	QPSK	36	36	21.24	21.22	21.28								
15	QPSK	36	0	21.26	21.25	21.13	22.5	0						
15	16QAM	1	0	21.27	21.24	21.21								
15	16QAM	1	37	21.33	21.30	21.28								
15	16QAM	1	74	21.29	21.25	21.29	22.5	0						
15	16QAM	36	0	21.23	21.27	21.18								
15	16QAM	36	20	21.21	21.27	21.19								
15	16QAM	36	36	21.22	21.29	21.67	22.5	0						
15	16QAM	75	0	21.31	21.13	21.19								
15	16QAM	1	0	21.23	21.22	21.35								
15	16QAM	1	37	21.09	21.30	21.24	22.5	0						
15	16QAM	1	74	21.34	21.34	21.30								
15	16QAM	36	0	20.95	20.79	20.71								
15	16QAM	36	20	20.95	20.77	20.90	21.5	1						
15	16QAM	36	36	20.84	20.77	20.75								
15	16QAM	75	0	20.98	20.94	20.76								
15	25QAM	1	0	18.84	18.86	18.90	19.5	3						
15	25QAM	1	37	18.70	18.86	18.76								
15	25QAM	1	74	18.70	18.85	18.98								
15	25QAM	36	0	18.88	18.87	18.90	19.5	3						
15	25QAM	36	20	18.91	19.04	19.08								
15	25QAM	36	36	18.95	18.98	18.98								
15	25QAM	75	0	18.89	18.85	18.97	19.5	3						
15	25QAM	75	0	18.89	18.85	18.97								
15	25QAM	75	0	18.89	18.85	18.97								
Channel														
Frequency (MHz)														
10	QPSK	1	0	21.16	21.02	21.17	22.5	0						
10	QPSK	1	25	20.93	21.10	21.26								
10	QPSK	1	40	21.05	21.07	21.05								
10	QPSK	25	0	21.19	20.87	21.02	22.5	0						
10	QPSK	25	12	21.01	21.17	21.23								
10	QPSK	25	25	21.12	20.98	20.96								
10	QPSK	50	0	20.90	21.15	21.22	22.5	0						
10	16QAM	1	0	21.05	21.10	20.91								
10	16QAM	1	25	21.19	20.97	21.06								
10	16QAM	1	40	21.07	21.12	21.17	22.5	0						
10	16QAM	25	0	21.19	21.08	21.09								
10	16QAM	25	12	21.10	20.90	21.10								
10	16QAM	25	25	21.03	20.99	20.96	22.5	0						
10	16QAM	50	0	20.97	20.77	21.10								
10	16QAM	50	0	20.97	20.77	21.10								
10	16QAM	1	0	20.86	20.86	21.20	22.5	0						
10	16QAM	1	25	20.83	21.00	20.97								
10	16QAM	1	40	21.15	20.90	21.00								
10	16QAM	25	0	20.83	20.40	20.50	21.5	1						
10	16QAM	25	12	20.84	20.55	20.93								
10	16QAM	25	25	20.84	20.55	20.93								
10	25QAM	1	0	18.84	18.86	18.90	19.5	3						
10	25QAM	1	37	18.84	18.89	18.85								
10	25QAM	1	74	18.85	18.74	18.82								
10	25QAM	36	0	18.84	18.86	18.90	19.5	3						
10	25QAM	36	20	18.89	18.89	18.87								
10	25QAM	36	36	18.86	18.71	18.75								
10	25QAM	75	0	18.87	18.76	18.89	19.5	3						
10	25QAM	75	0	18.87	18.76	18.89								
10	25QAM	75	0	18.87	18.76	18.89								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.13	21.08	21.13	22.5	0						
5	QPSK	1	12	20.90	21.08	21.14								
5	QPSK	1	24	21.00	21.11	21.04								
5	QPSK	12	0	21.20	20.82	20.92	22.5	0						
5	QPSK	12	7	21.08	21.17	21.17								
5	QPSK	12	13	21.09	20.78	20.92								
5	QPSK	25	0	20.93	21.10	21.18	22.5	0						
5	16QAM	1	0	21.03	21.06	20.94								
5	16QAM	1	12	21.02	20.90	21.08								
5	16QAM	1	24	21.03	21.24	21.21	22.5	0						
5	16QAM	12	0	21.15	21.01	21.04								
5	16QAM	12	7	21.05	20.91	21.07								
5	16QAM	12	13	21.01	20.95	20.98	22.5	0						
5	16QAM	25	0	20.91	20.82	21.15								
5	16QAM	25	0	20.91	20.89	21.16								
5	16QAM	1	0	20.73	20.90	20.97	22.5	0						
5	16QAM	1	24	21.15	20.90	20.95								
5	16QAM	12	0	20.58	20.40	20.53								
5	16QAM	12	7	20.69	20.41	20.42	21.5	1						
5	16QAM	12	13	20.42	20.95	20.36								
5	16QAM	25	0	20.65	20.75	20.42								
5	25QAM	1	0	18.86	18.84	18.89	19.5	3						
5	25QAM	1	37	18.84	18.84	18.82								
5	25QAM	1	74	18.80	18.89	18.84								
5	25QAM	12	0	18.73	18.99	18.89	19.5	3						
5	25QAM	12	7	18.81	18.85	18.71								
5	25QAM	12	13	18.80	18.87	18.82								
5	25QAM	25	0	18.63	18.79	18.73	19.5	3						
5	25QAM	25	0	18.63	18.79	18.73								
5	25QAM	25	0	18.63	18.79	18.73								
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.05	21.16	21.15	22.5	0						
3	QPSK	1	8	21.06	21.07	21.17								
3	QPSK	1	16	21.08	21.10	21.09								
3	QPSK	8	0	21.11	21.08	20.99	22.5	0						
3	QPSK	8	4	21.04	21.13	21.14								
3	QPSK	8	7	21.11	20.98	21.12								
3	QPSK	1	0	21.11	20.98	21.05	22.5	0						
3	16QAM	1	8	21.07	21.03	21.15								
3	16QAM	1	16	21.10	21.18	21.19								
3	16QAM	8	0	21.13	21.10	21.09	22.5	0						
3	16QAM	8	4	21.06	21.08	20.99								
3	16QAM	8	7	20.96	21.18	20.98								
3	16QAM	1	0	20.99	20.99	21.14	22.5	0						
3	16QAM	1	16	21.22	21.11	21.19								
3	16QAM	1	32	20.98	20.98	20.98								
3	16QAM	8	4	20.85	20.54	20.65	21.5	1						
3	16QAM	8	7	20.70	20.68	20.85								
3	16QAM	8	7	20.67	20.67	20.67								
3	25QAM	1	0	18.63	18.72	18.75	19.5	3						
3	25QAM	1	8	18.53	18.72	18.65								
3	25QAM	1	16	18.59	18.79	18.70								
3	25QAM	8	4	18.78	18.85	18.85	19.5	3						
3	25QAM	8	7	18.78	18.79	18.79								
3	25QAM	15	0	18.49	18.72	18.64								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	21.12	21.17	21.21	22.5	0						
1.4	QPSK	1	9	21.08	21.15	21.19								
1.4	QPSK	1	18	21.14	21.16	21.18								
1.4	QPSK	3	0	21.05	21.08	20.98	22.5	0						
1.4	QPSK	3	9	21.05	21.05	21.13								
1.4	QPSK	3	18	21.05	21.14	21.14								
1.4	QPSK	6	0	21.08	21.01	21.14	22.5	0						
1.4	16QAM	1	0	21.11	21.11	21.03								
1.4	16QAM	1	9	21.11	21.08	21.13								
1.4	16QAM	1	18	21.11	21.08	21.13	22.5	0						
1.4	16QAM	3	0	21.16	21.08	21.03								
1.4	16QAM	3	9	21.01	21.10	21.02								
1.4	16QAM	3	18	21.13	21.11	21.11	22.5	0						
1.4	16QAM	6	0	21.09	20.99	20.98								
1.4	16QAM	6	0	21.03	21.05	21.14								
1.4	16QAM	3	0	20.88	21.00	21.07	22.5	0						
1.4	16QAM	3	9	21.13	21.02	21.17								
1.4	16QAM	3	18	21.13	21.02	21.17								
1.4	16QAM	3	0	20.75	20.64	20.61	22.5	0						
1.4	16QAM	3	9	20.84	20.59	20.74								
1.4	16QAM	3	18	20.85	20.68	20.68								
1.4	25QAM	1	0	18.72	18.70	18.70	21.5	1						
1.4	25QAM	1	9	18.55	18.67	18.62								
1.4	25QAM	1	18	18.72	18.74	18.74								
1.4	25QAM	3	0	18.65	18.61	18.61	19.5	3						
1.4	25QAM	3	9	18.76	18.81	18.82								
1.4	25QAM	3	18	18.71	18.80	18.80								
1.4	25QAM	3	0	18.71	18.80	18.80	19.5	3						
1.4	25QAM	3	9	18.71	18.80	18.80								
1.4	25QAM	3	18	18.71	18.80	18.80								

Band 38(only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (TxW)	Power Middle Ch. (TxW)	Power High Ch. (TxW)	Turn-up time (dBm)	MFR (dB)		
Channel				37600	38000	38100				
Frequency (MHz)				2080	2095	2110				
20	QPSK	1	0	17.24	17.02	17.11			0	
20	QPSK	1	40	17.21	17.19	17.08				
20	QPSK	1	96	17.27	17.23	17.28				
20	QPSK	50	0	17.18	17.11	17.01				
20	QPSK	50	24	17.25	17.27	17.23				
20	QPSK	50	50	17.15	17.01	17.07	18	0		
20	QPSK	100	0	17.21	17.17	17.20				
20	16QAM	1	0	17.00	16.92	16.74				
20	16QAM	1	40	16.97	16.95	16.97	18	0		
20	16QAM	1	96	17.04	17.00	16.98				
20	16QAM	50	0	16.98	16.99	17.03				
20	16QAM	50	24	17.12	17.06	17.02				
20	16QAM	50	50	16.96	17.17	17.07	18	0		
20	16QAM	100	0	17.08	16.92	17.00				
20	64QAM	1	0	16.91	16.96	16.95				
20	64QAM	1	40	16.97	16.94	16.88				
20	64QAM	1	96	16.71	17.13	17.11				
20	64QAM	50	0	16.98	17.03	16.95				
20	64QAM	50	24	17.12	17.06	17.02				
20	64QAM	50	50	16.96	17.17	17.07	18	0		
20	256QAM	1	0	17.04	17.02	17.00				
20	256QAM	1	40	17.02	17.01	16.99	18	0		
20	256QAM	1	96	17.01	17.00	16.98				
20	256QAM	50	0	17.26	17.23	17.22				
20	256QAM	50	24	17.24	17.23	17.20				
20	256QAM	50	50	17.22	17.21	17.17				
20	256QAM	100	0	17.23	17.24	17.18				
Channel				37600	38000	38170	Turn-up time (dBm)	MFR (dB)		
Frequency (MHz)				2077.5	2095	2112.5				
15	QPSK	1	0	17.09	16.95	16.97				0
15	QPSK	1	37	17.11	17.11	17.12				
15	QPSK	1	74	17.24	17.21	17.22				
15	QPSK	36	0	17.08	17.18	16.88				
15	QPSK	36	20	16.99	17.12	17.11				
15	QPSK	36	36	17.03	16.96	16.82				
15	QPSK	75	0	16.91	16.93	17.07				
15	16QAM	1	0	17.12	16.91	16.91				
15	16QAM	1	37	16.99	17.00	16.99	18	0		
15	16QAM	1	74	17.16	17.02	17.02				
15	16QAM	36	0	16.99	17.16	17.06				
15	16QAM	36	20	17.04	17.12	16.91				
15	16QAM	36	36	17.08	17.23	17.19				
15	16QAM	75	0	17.18	17.02	17.06				
15	64QAM	1	0	17.09	16.93	17.03				
15	64QAM	1	37	17.16	16.98	17.03				
15	64QAM	1	74	17.11	17.01	17.00				
15	64QAM	36	0	16.97	17.15	17.11				
15	64QAM	36	20	17.14	17.00	17.05				
15	64QAM	36	36	17.03	17.16	17.06				
15	64QAM	75	0	17.19	17.13	17.13				
15	256QAM	1	0	17.03	17.04	16.89				
15	256QAM	1	37	17.07	16.92	17.06				
15	256QAM	1	74	16.90	16.79	17.01	18	0		
15	256QAM	36	0	17.14	17.18	17.14				
15	256QAM	36	20	17.10	17.18	16.98				
15	256QAM	36	36	17.08	17.05	17.18				
15	256QAM	75	0	17.16	17.07	17.12				
15	256QAM	75	0	17.16	17.07	17.12				
Channel				37600	38000	38200	Turn-up time (dBm)	MFR (dB)		
Frequency (MHz)				2077.5	2095	2110.5				
10	QPSK	1	0	17.02	16.92	16.97			0	
10	QPSK	1	25	16.94	16.95	16.92				
10	QPSK	1	40	17.24	17.23	17.08				
10	QPSK	25	0	16.93	17.12	16.88				
10	QPSK	25	12	16.91	16.98	17.08				
10	QPSK	25	25	17.04	17.03	16.72				
10	QPSK	50	0	17.16	16.94	17.00				
10	16QAM	1	0	17.15	16.79	17.00				
10	16QAM	1	25	16.97	17.04	16.94	18	0		
10	16QAM	1	40	17.03	16.95	16.93				
10	16QAM	25	0	17.03	16.99	17.13				
10	16QAM	25	12	17.12	16.99	17.04				
10	16QAM	25	25	17.02	17.06	17.03				
10	16QAM	50	0	16.90	16.77	17.06				
10	64QAM	1	0	17.19	17.01	16.99				
10	64QAM	1	25	17.13	16.99	16.97				
10	64QAM	1	40	16.93	17.04	16.94				
10	64QAM	25	0	16.94	17.09	17.01				
10	64QAM	25	12	16.95	16.98	17.04	18	0		
10	64QAM	25	25	16.96	17.07	17.04				
10	64QAM	50	0	17.17	16.96	16.94				
10	256QAM	1	0	17.00	16.94	17.04				
10	256QAM	1	25	17.01	16.79	17.03	18	0		
10	256QAM	1	40	16.92	16.93	16.73				
10	256QAM	25	0	17.02	17.09	17.10				
10	256QAM	25	12	17.04	17.19	17.21				
10	256QAM	25	25	17.27	17.14	16.92				
10	256QAM	50	0	17.21	17.25	17.21				
Channel				37710	38000	38205	Turn-up time (dBm)	MFR (dB)		
Frequency (MHz)				2077.5	2095	2112.5				
5	QPSK	1	0	16.99	17.00	16.94			0	
5	QPSK	1	12	16.92	16.92	17.00				
5	QPSK	1	24	17.06	17.04	17.24				
5	QPSK	12	0	16.99	17.01	16.85				
5	QPSK	12	7	17.06	17.06	16.94				
5	QPSK	12	13	16.99	17.03	16.90				
5	QPSK	25	0	17.08	17.19	17.22				
5	16QAM	1	0	16.95	16.76	16.89				
5	16QAM	1	12	17.06	16.97	16.80	18	0		
5	16QAM	1	24	17.16	17.06	17.06				
5	16QAM	12	0	17.08	17.01	17.12				
5	16QAM	12	7	17.16	17.16	16.91				
5	16QAM	12	13	17.21	17.19	17.18				
5	16QAM	25	0	16.92	16.96	17.07				
5	64QAM	1	0	17.17	17.00	16.97				
5	64QAM	1	12	17.05	16.94	16.94				
5	64QAM	1	24	16.93	16.98	17.11				
5	64QAM	12	0	17.07	17.00	16.85				
5	64QAM	12	7	17.02	16.91	16.86				
5	64QAM	12	13	16.96	17.21	17.13				
5	64QAM	25	0	17.02	17.02	16.97				
5	256QAM	1	0	16.88	16.87	17.05				
5	256QAM	1	12	16.99	16.83	17.00	18	0		
5	256QAM	1	24	16.76	16.96	16.96				
5	256QAM	12	0	17.24	17.26	17.20				
5	256QAM	12	7	17.18	17.13	17.12				
5	256QAM	12	13	17.03	16.99	16.94				
5	256QAM	25	0	17.09	17.19	16.99				



Band 41 (2.6G Band) HPUE (Limit 27)													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low		Power Low Middle		Power High Middle		Power High		Time-up limit (dBm)	MPR (dB)
				Ch. 1 (F1)	Ch. 2 (F2)	Ch. 1 (F1)	Ch. 2 (F2)	Ch. 1 (F1)	Ch. 2 (F2)				
Channel													
Frequency (MHz)				36750	40185	40920	41005	41400					
20	QPSK	1	0	18.99	19.02	18.91	18.95	19.11				19.3	
20	QPSK	1	40	18.81	19.06	19.01	19.07	19.06					
20	QPSK	1	80	19.11	19.20	19.13	19.10	19.15				19.3	
20	QPSK	50	0	19.07	19.05	18.83	18.84	18.98					
20	QPSK	50	24	19.08	19.18	19.11	19.08	19.12				19.3	
20	QPSK	50	48	19.01	19.04	18.84	18.80	18.86					
20	QPSK	100	0	19.05	19.18	19.08	19.04	19.10				19.3	
20	16QAM	1	0	19.16	19.16	19.06	19.03	19.13					
20	16QAM	1	40	19.06	19.07	18.86	18.84	19.18				19.3	
20	16QAM	1	80	19.07	19.06	18.88	18.85	19.04					
20	16QAM	50	0	19.03	19.07	18.79	18.72	19.14				19.3	
20	16QAM	50	24	19.10	19.10	18.85	18.87	19.00					
20	16QAM	50	48	19.04	18.89	18.91	18.96	19.18				19.3	
20	16QAM	100	0	19.10	19.09	18.88	18.80	19.07					
20	64QAM	1	0	19.18	19.08	19.03	19.07	19.16				19.3	
20	64QAM	1	40	19.17	19.06	19.10	19.05	19.14					
20	64QAM	1	80	19.14	19.02	19.08	19.02	19.12				19.3	
20	64QAM	50	0	19.14	19.09	19.13	19.07	19.11					
20	64QAM	50	24	19.10	19.07	19.11	19.15	19.18				19.3	
20	64QAM	50	48	19.10	19.04	19.19	19.14	19.18					
20	64QAM	100	0	19.13	19.12	19.17	19.16	19.15				19.3	
Channel													
Frequency (MHz)				36750	40173	40908	41008	41515				MPR (dB)	
15	QPSK	1	0	19.15	19.15	18.99	19.03	19.04					
15	QPSK	1	37	19.03	19.18	18.89	19.00	19.06				19.3	
15	QPSK	1	74	19.73	19.80	19.02	19.72	19.84					
15	QPSK	36	0	19.09	19.09	18.99	19.04	19.09				19.3	
15	QPSK	36	20	19.09	19.16	19.09	19.09	19.09					
15	QPSK	36	36	19.03	19.78	19.09	19.08	19.81				19.3	
15	QPSK	75	0	19.02	19.87	19.09	19.86	19.86					
15	16QAM	1	0	19.14	19.12	19.17	19.07	19.07				19.3	
15	16QAM	1	37	19.86	19.86	19.09	19.07	19.02					
15	16QAM	1	74	19.79	19.74	19.04	19.74	19.92				19.3	
15	16QAM	36	0	19.09	19.04	19.02	19.96	19.82					
15	16QAM	36	20	19.12	19.09	19.09	19.87	19.82				19.3	
15	16QAM	36	36	19.06	19.85	19.82	19.84	19.87					
15	16QAM	75	0	19.09	19.04	19.05	19.98	19.94				19.3	
15	64QAM	1	0	19.14	19.07	19.09	19.09	19.00					
15	64QAM	1	37	19.20	19.01	19.02	19.02	19.82				19.3	
15	64QAM	1	74	19.02	19.98	19.19	19.01	19.96					
15	64QAM	36	0	19.06	19.12	19.02	19.86	19.86				19.3	
15	64QAM	36	20	19.81	19.19	19.06	19.07	19.94					
15	64QAM	36	36	19.16	19.99	19.02	19.84	19.19				19.3	
15	64QAM	75	0	19.09	19.19	19.06	19.80	19.86					
15	256QAM	1	0	19.02	19.07	19.02	19.84	19.06				19.3	
15	256QAM	1	37	19.19	19.85	19.98	19.94	19.96					
15	256QAM	1	74	19.09	19.95	19.01	19.91	19.11				19.3	
15	256QAM	36	0	19.04	19.16	19.09	19.01	19.02					
15	256QAM	36	20	19.08	19.94	19.09	19.00	19.17				19.3	
15	256QAM	36	36	19.05	19.87	19.15	19.86	19.00					
15	256QAM	75	0	19.03	19.06	19.01	19.89	19.00				19.3	
Channel													
Frequency (MHz)				36750	40160	40906	41008	41400				MPR (dB)	
10	QPSK	1	0	19.02	19.10	19.14	19.96	19.93					
10	QPSK	1	25	19.04	19.09	19.88	19.92	19.84				19.3	
10	QPSK	1	49	19.07	19.82	19.91	19.82	19.80					
10	QPSK	25	0	19.05	19.85	19.99	19.82	19.74				19.3	
10	QPSK	25	12	19.14	19.04	19.11	19.11	19.81					
10	QPSK	25	25	19.07	19.89	19.99	19.94	19.77				19.3	
10	QPSK	50	0	19.07	19.84	19.88	19.91	19.76					
10	16QAM	1	0	19.06	19.12	19.09	19.99	19.96				19.3	
10	16QAM	1	25	19.89	19.90	19.93	19.96	19.92					
10	16QAM	1	49	19.73	19.87	19.83	19.89	19.86				19.3	
10	16QAM	25	0	19.09	19.89	19.91	19.92	19.83					
10	16QAM	25	12	19.88	19.91	19.89	19.74	19.90				19.3	
10	16QAM	25	25	19.83	19.89	19.81	19.86	19.72					
10	16QAM	50	0	19.08	19.88	19.94	19.13	19.87				19.3	
10	64QAM	1	0	19.15	19.78	19.99	19.94	19.83					
10	64QAM	1	25	19.15	19.90	19.90	19.12	19.79				19.3	
10	64QAM	1	49	19.73	19.87	19.83	19.89	19.86					
10	64QAM	25	0	19.09	19.89	19.91	19.92	19.83				19.3	
10	64QAM	25	12	19.88	19.91	19.89	19.74	19.90					
10	64QAM	25	25	19.81	19.98	19.14	19.90	19.19				19.3	
10	64QAM	50	0	19.04	19.96	19.96	19.99	19.94					
10	256QAM	1	0	19.10	19.94	19.16	19.82	19.98				19.3	
10	256QAM	1	25	19.18	19.81	19.15	19.85	19.19					
10	256QAM	1	49	19.08	19.95	19.89	19.92	19.98				19.3	
10	256QAM	25	0	19.04	19.99	19.11	19.98	19.96					
10	256QAM	25	12	19.14	19.93	19.91	19.25	19.12				19.3	
10	256QAM	25	25	19.07	19.99	19.96	19.12	19.15					
10	256QAM	50	0	19.03	19.96	19.92	19.96	19.91				19.3	
Channel													
Frequency (MHz)				36815	39415	40906	41000	41500				MPR (dB)	
5	QPSK	1	0	19.73	19.87	19.72	19.98	19.99					
5	QPSK	1	12	19.83	19.74	19.86	19.89	19.77				19.3	
5	QPSK	1	24	19.83	19.82	19.83	19.79	19.84					
5	QPSK	12	0	19.58	19.49	19.88	19.79	19.59				19.3	
5	QPSK	12	7	19.80	19.57	19.85	19.76	19.74					
5	QPSK	12	13	19.72	19.59	19.81	19.88	19.71				19.3	
5	QPSK	25	0	19.88	19.80	19.82	19.88	19.75					
5	16QAM	1	0	19.82	19.82	19.81	19.98	19.98				19.3	
5	16QAM	1	12	19.91	19.80	19.88	19.91	19.78					
5	16QAM	1	24	19.89	19.83	19.87	19.89	19.82				19.3	
5	16QAM	12	0	19.89	19.82	19.83	19.79	19.47					
5	16QAM	12	7	19.77	19.99	19.75	19.74	19.72				19.3	
5	16QAM	12	13	19.88	19.85	19.81	19.86	19.85					
5	16QAM	25	0	19.74	19.99	19.70	19.70	19.84				19.3	
5	64QAM	1	0	19.82	19.71	19.82	19.87	19.87					
5	64QAM	1	12	19.76	19.74	19.89	19.76	19.87				19.3	
5	64QAM	1	24	19.80	19.80	19.84	19.77	19.82					
5	64QAM	12	0	19.79	19.79	19.89	19.79	19.84				19.3	
5	64QAM	12	7	19.84	19.73	19.89	19.74	19.70					
5	64QAM	12	13	19.75	19.79	19.86	19.81	19.88				19.3	
5	64QAM	25	0	19.79	19.81	19.89	19.88	19.88					
5	256QAM	1	0	19.13	19.78	19.88	19.87	19.16				19.3	
5	256QAM	1	12	19.89	19.91	19.90	19.93	19.83					
5	256QAM	1	24	19.17	19.86	19.86	19.87	19.87				19.3	
5	256QAM	12	0	19.07	19.91	19.05	19.90	19.06					
5	256QAM	12	7	19.86	19.90	19.89	19.79	19.97				19.3	
5	256QAM	12	13	19.99	19.94	19.13	19.99	19.96					
5	256QAM	25	0	19.03	19.95	19.91	19.93	19.98				19.3	



BA	CDMA BC1			Turn-up Limit (dBm)
TX Channel	25	600	1175	
Frequency (MHz)	1861.26	1860	1908.75	
RC1 S045	22.44	22.46	22.41	23.50
RC3 S050	22.43	22.46	22.40	23.50
RC3 S032 (F+SCH)	22.41	22.45	22.38	23.50
RC3 S032 (F+SCH)	22.40	22.44	22.36	23.50
RTAP 153.6Kbps	22.38	22.42	22.35	23.50
REAP 4096Bps	22.37	22.40	22.34	23.50

Band 2 (1900MHz Band)										
Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power High Ch / Freq.	Turn-up (dBm)	Turn-down (dBm)	MPE (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.45	22.42	22.38				
20	QPSK	1	49	22.39	22.33	22.35				
20	QPSK	1	99	22.48	22.45	22.53				
20	QPSK	50	24	22.40	22.36	22.43				
20	QPSK	50	50	22.42	22.40	22.48				
20	QPSK	100	124	22.45	22.42	22.48				
20	16QAM	1	0	22.47	22.48	22.52				
20	16QAM	1	49	22.51	22.48	22.48				
20	16QAM	1	99	22.38	22.40	22.43				
20	16QAM	50	50	22.03	21.97	22.03				
20	16QAM	50	24	22.08	21.97	22.02				
20	16QAM	50	50	22.02	22.01	21.98				
20	16QAM	100	0	22.06	21.98	21.97				
20	84QAM	1	0	22.20	22.16	22.06				
20	84QAM	1	49	22.17	22.11	22.07				
20	84QAM	1	99	22.06	22.01	22.02				
20	84QAM	50	0	21.02	20.98	20.94				
20	84QAM	50	24	21.09	21.00	21.03				
20	84QAM	50	50	21.06	21.03	21.09				
20	256QAM	100	0	21.08	20.94	21.01				
20	256QAM	1	0	18.70	18.72	18.69				
20	256QAM	1	49	18.67	18.70	18.66				
20	256QAM	1	99	18.65	18.67	18.64				
20	256QAM	50	0	18.69	18.71	18.70				
20	256QAM	50	24	18.67	18.69	18.68				
20	256QAM	50	50	18.64	18.68	18.65				
20	256QAM	100	0	18.63	18.64	18.64				
Channel				18670	18680	19010		Turn-up (dBm)		MPE (dB)
15	QPSK	1	0	22.40	22.30	22.30				
15	QPSK	1	37	22.33	22.22	22.16				
15	QPSK	1	74	22.48	22.36	22.40				
15	QPSK	36	0	22.34	22.23	22.31				
15	QPSK	36	20	22.43	22.28	22.41				
15	QPSK	36	20	22.40	22.32	22.35				
15	QPSK	75	0	22.45	22.40	22.41				
15	16QAM	1	0	22.45	22.35	22.43				
15	16QAM	1	37	22.37	22.41	22.47				
15	16QAM	1	74	22.27	22.35	22.43				
15	16QAM	36	0	21.97	21.91	21.81				
15	16QAM	36	20	21.96	21.84	21.86				
15	16QAM	36	20	21.87	21.88	21.89				
15	16QAM	75	0	21.82	21.81	21.87				
15	84QAM	1	0	22.10	22.08	22.02				
15	84QAM	1	37	22.08	22.01	21.83				
15	84QAM	1	74	22.15	22.06	21.85				
15	84QAM	36	0	20.99	20.93	20.93				
15	84QAM	36	20	21.00	20.97	20.99				
15	84QAM	36	20	20.98	20.95	20.97				
15	84QAM	75	0	20.97	20.95	20.97				
15	256QAM	1	0	18.64	18.67	18.66				
15	256QAM	1	37	18.67	18.69	18.67				
15	256QAM	1	74	18.64	18.65	18.64				
15	256QAM	36	0	18.54	18.56	18.57				
15	256QAM	36	20	18.63	18.67	18.62				
15	256QAM	36	20	18.63	18.68	18.61				
15	256QAM	75	0	18.65	18.65	18.69				
Channel				18650	18660	19000		Turn-up (dBm)		MPE (dB)
10	QPSK	1	0	22.39	22.38	22.38				
10	QPSK	1	49	22.36	22.38	22.39				
10	QPSK	1	99	22.41	22.44	22.36				
10	QPSK	25	0	22.38	22.24	22.36				
10	QPSK	25	12	22.43	22.38	22.35				
10	QPSK	25	25	22.38	22.35	22.31				
10	QPSK	50	0	22.34	22.27	22.43				
10	16QAM	1	0	22.41	22.41	22.47				
10	16QAM	1	49	22.39	22.45	22.42				
10	16QAM	1	99	22.33	22.34	22.40				
10	16QAM	25	0	21.96	21.91	21.86				
10	16QAM	25	12	21.98	21.98	21.98				
10	16QAM	25	25	21.90	21.89	21.89				
10	16QAM	50	0	21.85	21.82	21.91				
10	84QAM	1	0	22.16	22.15	21.85				
10	84QAM	1	25	22.10	22.10	22.09				
10	84QAM	1	49	22.02	21.91	21.93				
10	84QAM	25	0	20.97	20.98	20.79				
10	84QAM	25	12	21.07	20.98	20.95				
10	84QAM	25	25	21.02	20.95	20.93				
10	84QAM	50	0	21.04	20.91	20.87				
10	256QAM	1	0	18.60	18.70	18.68				
10	256QAM	1	25	18.63	18.65	18.63				
10	256QAM	1	49	18.52	18.63	18.51				
10	256QAM	25	0	18.67	18.59	18.58				
10	256QAM	25	12	18.57	18.68	18.62				
10	256QAM	25	25	18.54	18.63	18.63				
10	256QAM	50	0	18.63	18.66	18.63				
Channel				18620	18630	19010		Turn-up (dBm)		MPE (dB)
5	QPSK	1	0	22.42	22.40	22.36				
5	QPSK	1	12	22.32	22.27	22.26				
5	QPSK	1	24	22.45	22.30	22.52				
5	QPSK	1	37	22.33	22.33	22.33				
5	QPSK	12	7	22.38	22.33	22.49				
5	QPSK	12	13	22.38	22.27	22.43				
5	QPSK	25	0	22.37	22.27	22.36				
5	16QAM	1	0	22.41	22.40	22.46				
5	16QAM	1	12	22.39	22.34	22.43				
5	16QAM	1	24	22.34	22.35	22.29				
5	16QAM	12	0	22.00	21.98	21.98				
5	16QAM	12	7	21.99	21.90	21.94				
5	16QAM	12	13	21.90	21.99	21.88				
5	16QAM	25	0	22.02	21.88	21.87				
5	84QAM	1	0	22.20	22.14	22.14				
5	84QAM	1	12	22.02	22.09	22.01				
5	84QAM	1	24	22.01	21.91	22.00				
5	84QAM	12	0	21.86	20.98	20.79				
5	84QAM	12	7	21.06	20.99	20.99				
5	84QAM	12	13	21.04	20.94	20.98				
5	84QAM	25	0	21.00	20.91	20.90				
5	256QAM	1	0	18.56	18.64	18.62				
5	256QAM	1	12	18.57	18.63	18.57				
5	256QAM	1	24	18.54	18.59	18.55				
5	256QAM	12	0	18.52	18.66	18.60				
5	256QAM	12	7	18.58	18.56	18.64				
5	256QAM	12	13	18.55	18.54	18.52				
5	256QAM	25	0	18.63	18.69	18.64				
Channel				18610	18620	19000		Turn-up (dBm)		MPE (dB)
3	QPSK	1	0	22.42	22.40	22.35				
3	QPSK	1	8	22.38	22.20	22.25				
3	QPSK	1	14	22.44	22.37	22.44				
3	QPSK	8	0	22.40	22.32	22.38				
3	QPSK	8	4	22.41	22.34	22.43				
3	QPSK	8	7	22.39	22.35	22.45				
3	QPSK	16	0	22.42	22.39	22.48				
3	16QAM	1	0	22.41	22.38	22.40				
3	16QAM	1	8	22.40	22.32	22.46				
3	16QAM	1	14	22.38	22.36	22.38				
3	16QAM	8	4	21.94	21.90	22.00				
3	16QAM	8	7	21.97	21.93	21.96				
3	16QAM	16	0	22.06	21.93	21.92				
3	84QAM	1	0	22.11	22.07	21.94				
3	84QAM	1	8	22.08	22.05	22.04				
3	84QAM	1	14	22.06	21.98	22.00				
3	84QAM	8	0	20.91	20.94	20.80				
3	84QAM	8	4	21.07	20.94	20.92				
3	84QAM	8	7	21.00	20.99	20.94				
3	84QAM	16	0	21.07	20.94	20.91				
3	256QAM	1	0	18.57	18.59	18.52				
3	256QAM	1	8	18.60	18.62	18.55				
3	256QAM	1	14	18.52	18.61	18.57				
3	256QAM	8	0	18.55	18.62	18.59				
3	256QAM	8	4	18.67	18.57	18.67				
3	256QAM	8	7	18.63	18.64	18.65				
3	256QAM	16	0	18.50	18.54	18.53				
Channel				18600	18610	19000		Turn-up (dBm)		MPE (dB)
14	QPSK	1	0	22.33	22.30	22.30				
14	QPSK	1	8	22.33	22.22	22.20				
14	QPSK	1	16	22.37	22.41	22.38				
14	QPSK	1	24	22.30	22.35	22.32				
14	QPSK	1	32	22.46	22.34	22.48				
14	QPSK	3	0	22.33	22.39	22.45				
14	QPSK	6	0	22.31	22.29	22.45				
14	QPSK	12	0	22.31	22.29	22.45				
14	16QAM	1	0	22.46	22.48	22.37				
14	16QAM	1	8	22.37	22.39	22.34				
14	16QAM	1	16	22.42	22.43	22.39				

Band 25 (1000MHz Band) Part 24E																	
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Time-use rate (dBm)	MFR (dB)									
Channel																	
Frequency (MHz)																	
20	QPSK	1	0	22.27	22.38	22.38	23.5	0									
20	QPSK	1	49	22.37	22.33	22.33											
20	QPSK	1	99	22.29	22.31	22.29											
20	QPSK	50	0	22.27	22.27	22.18											
20	QPSK	50	24	22.34	22.38	22.36	23.5	0									
20	QPSK	50	50	22.25	22.25	22.21											
20	QPSK	100	0	22.31	22.34	22.28											
20	16QAM	1	0	22.30	22.38	22.33											
20	16QAM	1	49	22.35	22.37	22.32	23.5	0									
20	16QAM	1	99	22.19	22.31	22.17											
20	16QAM	50	0	21.78	21.81	21.73											
20	16QAM	50	24	21.83	21.81	21.73											
20	16QAM	50	50	21.72	21.78	21.75	23	0.5									
20	16QAM	100	0	21.81	21.80	21.74											
20	8QAM	1	0	22.04	21.98	21.87											
20	8QAM	1	49	21.93	21.91	21.87											
20	8QAM	1	99	21.85	21.79	21.76	23	0.5									
20	8QAM	50	0	20.78	20.86	20.76											
20	8QAM	50	24	20.83	20.83	20.73											
20	8QAM	50	50	20.74	20.80	20.75											
20	8QAM	100	0	20.84	20.86	20.74	22	1.5									
20	25QAM	1	0	18.75	18.75	18.77											
20	25QAM	1	49	18.70	18.78	18.75											
20	25QAM	1	99	18.69	18.73	18.73											
20	25QAM	50	0	18.73	18.73	18.73	19.5	4									
20	25QAM	50	24	18.71	18.73	18.70											
20	25QAM	50	50	18.68	18.71	18.69											
20	25QAM	100	0	18.72	18.71	18.69											
Channel																	
Frequency (MHz)																	
16	QPSK	1	0	22.18	22.32	22.38	23.5	0									
16	QPSK	1	37	22.26	22.28	22.24											
16	QPSK	1	74	22.26	22.28	22.18											
16	QPSK	36	0	22.14	22.29	22.12											
16	QPSK	36	20	22.24	22.28	22.20	23.5	0									
16	QPSK	36	40	22.18	22.28	22.18											
16	QPSK	75	0	22.21	22.33	22.19											
16	16QAM	1	0	22.17	22.32	22.26											
16	16QAM	1	37	22.27	22.28	22.26	23.5	0									
16	16QAM	1	74	22.09	22.29	22.09											
16	16QAM	36	0	21.78	21.77	21.85											
16	16QAM	36	20	21.72	21.70	21.73											
16	16QAM	75	0	21.78	21.78	21.86	23	0.5									
16	8QAM	1	0	21.97	21.90	21.83											
16	8QAM	1	37	21.92	21.89	21.85											
16	8QAM	1	74	21.80	21.86	21.86											
16	8QAM	36	0	20.73	20.75	20.76	22	1.5									
16	8QAM	36	20	20.78	20.71	20.72											
16	8QAM	75	0	20.78	20.86	20.86											
16	8QAM	75	20	20.78	20.86	20.86											
16	25QAM	1	0	18.73	18.77	18.86	19.5	4									
16	25QAM	1	37	18.62	18.67	18.69											
16	25QAM	1	74	18.69	18.69	18.69											
16	25QAM	36	0	18.69	18.63	18.65											
16	25QAM	36	20	18.64	18.61	18.70	19.5	4									
16	25QAM	36	40	18.60	18.66	18.66											
16	25QAM	75	0	18.60	18.66	18.60											
16	25QAM	75	20	18.60	18.66	18.60											
Channel																	
Frequency (MHz)																	
16	QPSK	1	0	22.13	22.28	22.25	23.5	0									
16	QPSK	1	49	22.30	22.36	22.28											
16	QPSK	1	99	22.31	22.19	22.07											
16	QPSK	25	0	22.27	22.25	22.11											
16	QPSK	25	0	22.27	22.25	22.11	23.5	0									
16	QPSK	25	0	22.27	22.25	22.11											
16	QPSK	25	25	22.12	22.17	22.16											
16	QPSK	50	0	22.19	22.31	22.16											
16	16QAM	1	0	22.29	22.27	22.16	23.5	0									
16	16QAM	1	0	22.29	22.27	22.16											
16	16QAM	1	49	22.13	22.23	22.07											
16	16QAM	25	0	21.77	21.73	21.66											
16	16QAM	25	0	21.62	21.67	21.58	23	0.5									
16	16QAM	25	25	21.68	21.78	21.67											
16	16QAM	25	25	21.68	21.78	21.67											
16	16QAM	50	0	21.74	21.75	21.74											
16	8QAM	1	0	21.99	21.84	21.81	23	0.5									
16	8QAM	1	25	21.81	21.79	21.86											
16	8QAM	1	49	21.82	21.68	21.83											
16	8QAM	25	0	20.73	20.84	20.76											
16	8QAM	25	12	20.72	20.84	20.85	22	1.5									
16	8QAM	25	12	20.72	20.84	20.85											
16	8QAM	25	25	20.72	20.76	20.71											
16	8QAM	50	0	20.76	20.86	20.87											
16	25QAM	1	0	18.62	18.65	18.65	19.5	4									
16	25QAM	1	25	18.62	18.69	18.69											
16	25QAM	1	49	18.61	18.63	18.73											
16	25QAM	25	0	18.60	18.58	18.71											
16	25QAM	25	12	18.61	18.65	18.64	19.5	4									
16	25QAM	25	25	18.61	18.65	18.64											
16	25QAM	50	0	18.70	18.73	18.64											
16	25QAM	50	0	18.70	18.73	18.64											
Channel																	
Frequency (MHz)																	
5	QPSK	1	0	22.19	22.27	22.35	23.5	0									
5	QPSK	1	12	22.27	22.28	22.25											
5	QPSK	1	24	22.18	22.20	22.16											
5	QPSK	12	0	22.16	22.24	22.16											
5	QPSK	12	7	22.24	22.28	22.26	23.5	0									
5	QPSK	12	13	22.22	22.21	22.16											
5	QPSK	25	0	22.20	22.32	22.21											
5	16QAM	1	0	22.25	22.27	22.14											
5	16QAM	1	12	22.25	22.33	22.29	23.5	0									
5	16QAM	1	24	22.09	22.31	22.05											
5	16QAM	12	0	21.64	21.74	21											

Band 38(only on channel required)																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Fwh)	Power Middle Ch. 1 (Fwh)	Power High Ch. 1 (Fwh)	Turn-up limit (dBm)	MPE (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	19.91	19.91	19.92	20.8	0								
20	QPSK	1	49	20.04	20.05	20.06										
20	QPSK	1	99	20.10	20.07	20.08										
20	QPSK	50	0	19.88	19.92	19.98										
20	QPSK	50	24	20.07	20.03	20.04	20.8	0								
20	QPSK	50	50	19.94	20.07	20.01										
20	16QAM	1	0	20.03	19.99	19.90										
20	16QAM	1	49	19.94	19.98	19.94										
20	16QAM	1	99	20.06	20.02	20.07	20.8	0								
20	16QAM	50	0	20.00	19.98	20.02										
20	16QAM	50	24	20.09	20.00	20.05										
20	16QAM	100	0	20.08	20.06	20.06										
20	16QAM	1	0	19.87	19.81	19.63	20.8	0								
20	16QAM	1	49	19.74	19.73	19.55										
20	16QAM	1	99	19.97	19.83	19.87										
20	16QAM	50	0	19.94	19.92	19.93										
20	16QAM	50	24	20.09	20.04	20.03	20.8	0								
20	16QAM	50	50	20.02	20.06	20.08										
20	16QAM	100	0	20.07	19.97	19.97										
20	256QAM	1	0	19.90	19.90	19.15										
20	256QAM	1	49	19.95	19.98	19.99	19.8	1								
20	256QAM	1	99	19.84	19.85	19.83										
20	256QAM	50	24	19.13	19.20	19.20										
20	256QAM	50	24	19.06	19.18	19.03										
20	256QAM	50	50	19.11	19.17	19.25	19.8	1								
20	256QAM	100	0	19.06	19.11	19.02										
Channel																
Frequency (MHz)																
15	QPSK	1	0	19.79	19.85	19.78	20.8	0								
15	QPSK	1	49	19.89	19.80	20.02										
15	QPSK	1	74	19.87	20.03	19.95										
15	QPSK	36	0	19.75	19.77	19.85										
15	QPSK	36	20	19.86	20.00	19.95	20.8	0								
15	QPSK	36	59	19.85	20.06	19.94										
15	QPSK	36	59	19.85	20.06	19.94										
15	QPSK	75	0	19.82	19.99	20.01										
15	16QAM	1	0	19.91	19.89	19.80	20.8	0								
15	16QAM	1	37	19.88	19.78	19.80										
15	16QAM	1	74	19.92	19.87	19.94										
15	16QAM	36	0	20.00	19.94	20.02										
15	16QAM	36	20	19.99	19.95	20.02	20.8	0								
15	16QAM	36	59	19.96	19.99	20.02										
15	16QAM	75	0	19.89	19.89	19.97										
15	16QAM	1	0	19.87	19.48	19.53										
15	16QAM	1	37	19.70	19.63	19.43	20.8	0								
15	16QAM	1	74	19.72	19.78	19.88										
15	16QAM	36	0	19.96	19.96	19.97										
15	16QAM	36	20	20.00	19.91	19.97										
15	16QAM	36	59	19.96	19.95	20.01	20.8	0								
15	16QAM	75	0	20.02	19.92	19.91										
15	256QAM	1	0	19.87	19.84	19.08										
15	256QAM	1	37	19.89	19.96	19.96										
15	256QAM	1	74	19.88	19.85	19.73	19.8	1								
15	256QAM	36	0	19.92	19.96	19.08										
15	256QAM	36	20	19.08	19.13	19.04										
15	256QAM	36	59	19.02	19.13	19.18										
15	256QAM	75	0	19.07	19.03	19.02										
Channel																
Frequency (MHz)																
10	QPSK	1	0	19.82	19.88	19.82	20.8	0								
10	QPSK	1	20	19.85	19.83	19.81										
10	QPSK	1	49	20.01	19.98	20.05										
10	QPSK	25	0	19.88	19.91	19.78										
10	QPSK	25	12	19.98	19.97	19.92	20.8	0								
10	QPSK	25	25	19.94	19.97	19.92										
10	QPSK	50	0	19.85	19.98	19.92										
10	16QAM	1	0	19.96	19.89	19.77										
10	16QAM	1	20	19.79	19.73	19.79	20.8	0								
10	16QAM	1	49	19.94	20.01	19.97										
10	16QAM	25	0	19.96	19.97	20.00										
10	16QAM	25	12	20.04	19.92	20.05										
10	16QAM	25	25	20.02	20.03	19.91	20.8	0								
10	16QAM	50	0	19.88	19.91	19.99										
10	16QAM	1	0	19.92	19.54	19.55										
10	16QAM	1	20	19.52	19.58	19.49										
10	16QAM	1	49	19.81	19.81	19.79	20.8	0								
10	16QAM	25	0	19.94	19.90	19.85										
10	16QAM	25	12	20.00	20.00	19.94										
10	16QAM	25	25	20.02	19.91	20.06										
10	16QAM	50	0	20.01	19.98	19.96	20.8	0								
10	256QAM	1	0	19.92	19.94	19.08										
10	256QAM	1	20	19.88	19.96	19.96										
10	256QAM	1	49	19.84	19.88	19.78										
10	256QAM	25	0	19.90	19.94	19.08	19.8	1								
10	256QAM	25	12	19.97	19.04	19.04										
10	256QAM	25	25	19.85	19.15	19.21										
10	256QAM	50	0	19.92	19.99	19.15										
Channel																
Frequency (MHz)																
5	QPSK	1	0	19.14	19.81	19.72	20.8	0								
5	QPSK	1	12	19.89	19.72	19.98										
5	QPSK	1	24	20.08	20.00	20.00										
5	QPSK	12	0	19.81	19.90	19.85										
5	QPSK	12	7	20.00	20.01	19.97	20.8	0								
5	QPSK	12	13	19.87	20.04	19.95										
5	QPSK	25	0	20.00	19.89	19.97										
5	16QAM	1	0	19.89	19.83	19.90										
5	16QAM	1	12	19.84	19.81	19.91	20.8	0								
5	16QAM	1	24	20.00	19.89	20.06										
5	16QAM	12	0	19.94	19.88	19.89										
5	16QAM	12	7	20.06	19.93	19.97										
5	16QAM	12	13				19.8	1								
5	16QAM	25	0	19.96	19.89	19.87										
5	16QAM	25	12	19.97	19.70	19.70										
5	16QAM	25	25	19.98	20.00	19.95										
5	16QAM	50	0	19.96	19.99	19.08										
5	256QAM	1	0	19.84	19.84	19.08										
5	256QAM	1	12	19.81	19.86	19.94										
5	256QAM	1	24	19.82	19.88	19.78	19.8	1								
5	256QAM	12	0	19.90	19.85	19.95										
5	256QAM	12	6	19.00	19.00	19.05										
5	256QAM	12	17	19.90	19.92	19.99										
5	256QAM	25	0	19.93	19.93	19.14	19.8	1								
5	256QAM	25	6	19.06	19.07	19.11										

Band 41 (2.6G Band) HPUE (Link 27)												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Fem]	Power Low Middle Ch. [Fem]	Power Middle Ch. [Fem]	Power High Middle Ch. [Fem]	Power High Ch. [Fem]	Time-up-link [dBm]	MFR [dB]		
Channel												
Frequency [MHz]												
20	QPSK	1	0	21.78	21.68	21.69	21.69	21.80	22.4	0		
20	QPSK	1	48	21.78	21.82	21.83	21.78	21.87				
20	QPSK	1	96	21.79	21.82	21.78	21.81	21.83	22.4	0		
20	QPSK	56	0	21.72	21.81	21.82	21.88	21.77				
20	QPSK	56	48	21.77	21.88	21.75	21.78	21.87	22.4	0		
20	QPSK	56	96	21.75	21.79	21.73	21.75	21.77				
20	QPSK	100	0	21.75	21.83	21.72	21.76	21.78	22.4	0		
20	16QAM	1	0	21.85	21.77	21.71	21.72	21.78				
20	16QAM	1	48	21.82	21.79	21.74	21.79	21.85	22.4	0		
20	16QAM	1	96	21.87	21.75	21.80	21.85	21.70				
20	16QAM	56	0	21.72	21.73	21.58	21.60	21.71	22.4	0		
20	16QAM	56	48	21.81	21.74	21.86	21.63	21.74				
20	16QAM	56	96	21.80	21.74	21.87	21.74	21.82	22.4	0		
20	16QAM	100	0	21.83	21.78	21.84	21.82	21.72				
20	16QAM	1	0	21.86	21.88	21.86	21.85	21.87	22.4	0		
20	16QAM	1	48	21.87	21.84	21.58	21.80	21.75				
20	16QAM	1	96	21.89	21.81	21.71	21.79		22.4	0		
20	16QAM	56	0	21.88	21.72	21.53	21.59	21.71				
20	16QAM	56	48	21.79	21.74	21.83	21.84	21.74	22.4	0		
20	16QAM	56	96	21.78	21.72	21.83	21.73	21.81				
20	16QAM	100	0	21.80	21.70	21.82	21.81	21.71	22.4	0		
20	256QAM	1	0	21.86	20.93	21.88	20.93	20.94				
20	256QAM	1	48	20.95	20.91	20.87	20.82	20.92	21.8	0.6		
20	256QAM	1	96	21.05	20.90	20.93	20.79	20.90				
20	256QAM	56	0	20.88	21.11	20.86	21.08	21.09	21.8	0.6		
20	256QAM	56	48	21.14	21.03	20.92	21.08	21.01				
20	256QAM	56	96	20.91	21.15	21.16	20.92	21.00	21.8	0.6		
20	256QAM	100	0	20.92	21.16	21.13	21.00	20.90				
Channel												
Frequency [MHz]												
15	QPSK	1	0	21.62	21.56	21.60	21.61	21.70	22.4	0		
15	QPSK	1	37	21.75	21.72	21.54	21.72	21.74				
15	QPSK	1	74	21.76	21.73	21.78	21.73	21.83	22.4	0		
15	QPSK	36	0	21.80	21.78	21.54	21.81	21.72				
15	QPSK	36	48	21.74	21.79	21.66	21.72	21.86	22.4	0		
15	QPSK	36	96	21.75	21.67	21.65	21.66	21.71				
15	QPSK	75	0	21.62	21.83	21.68	21.61	21.60	22.4	0		
15	16QAM	1	0	21.71	21.68	21.57	21.70	21.77				
15	16QAM	1	37	21.69	21.65	21.70	21.67	21.77	22.4	0		
15	16QAM	1	74	21.78	21.75	21.71	21.74	21.67				
15	16QAM	36	0	21.57	21.70	21.45	21.67	21.63	22.4	0		
15	16QAM	36	48	21.69	21.72	21.53	21.63	21.60				
15	16QAM	36	96	21.68	21.76	21.66	21.74	21.62	22.4	0		
15	16QAM	75	0	21.68	21.78	21.57	21.51	21.70				
15	16QAM	1	0	21.68	21.44	21.41	21.63	21.62	22.4	0		
15	16QAM	1	37	21.57	21.52	21.52	21.53	21.62				
15	16QAM	1	74	21.57	21.54	21.54	21.50	21.78	22.4	0		
15	16QAM	36	0	21.68	21.56	21.52	21.61	21.63				
15	16QAM	36	48	21.67	21.59	21.83	21.53	21.71	22.4	0		
15	16QAM	36	96	21.76	21.67	21.51	21.59	21.68				
15	16QAM	75	0	21.65	21.68	21.48	21.58	21.70	21.8	0.6		
15	256QAM	1	0	20.92	20.90	21.01	20.89	20.90				
15	256QAM	1	37	20.94	20.77	20.77	20.67	20.81	21.8	0.6		
15	256QAM	1	74	20.96	20.80	20.82	20.65	20.81				
15	256QAM	36	0	20.81	21.06	20.86	21.04	21.02	21.8	0.6		
15	256QAM	36	48	21.08	20.94	20.83	21.07	20.93				
15	256QAM	36	96	20.82	21.07	21.08	20.85	21.00	21.8	0.6		
15	256QAM	75	0	20.78	21.01	21.15	20.82	20.81				
Channel												
Frequency [MHz]												
10	QPSK	1	0	21.66	21.64	21.55	21.60	21.68	22.4	0		
10	QPSK	1	25	21.72	21.67	21.58	21.68	21.75				
10	QPSK	1	48	21.68	21.65	21.69	21.76	21.80	22.4	0		
10	QPSK	36	0	21.87	21.87	21.62	21.88	21.71				
10	QPSK	36	48	21.71	21.84	21.41	21.83	21.77	22.4	0		
10	QPSK	36	96	21.64	21.70	21.67	21.75	21.77				
10	QPSK	56	0	21.67	21.83	21.69	21.68	21.77	22.4	0		
10	16QAM	1	0	21.86	21.69	21.69	21.88	21.76				
10	16QAM	1	25	21.82	21.74	21.66	21.87	21.85	22.4	0		
10	16QAM	1	48	21.86	21.84	21.77	21.85	21.68				
10	16QAM	36	0	21.86	21.58	21.54	21.80	21.65	22.4	0		
10	16QAM	36	48	21.79	21.68	21.52	21.80	21.68				
10	16QAM	36	96	21.65	21.65	21.58	21.65	21.68	22.4	0		
10	16QAM	56	0	21.73	21.63	21.53	21.67	21.64				
10	16QAM	1	0	21.88	21.48	21.36	21.48	21.50	22.4	0		
10	16QAM	1	25	21.53	21.63	21.44	21.49	21.68				
10	16QAM	1	48	21.62	21.58	21.64	21.58	21.74	22.4	0		
10	16QAM	36	0	21.59	21.62	21.50	21.59	21.68				
10	16QAM	36	48	21.75	21.60	21.58	21.59	21.71	22.4	0		
10	16QAM	36	96	21.65	21.71	21.57	21.59	21.67				
10	16QAM	56	0	21.86	21.81	21.58	21.46	21.98	22.4	0		
10	256QAM	1	0	21.01	20.85	20.95	20.81	20.80				
10	256QAM	1	25	20.82	20.91	20.87	20.74	20.82	21.8	0.6		
10	256QAM	1	48	20.90	20.75	20.91	20.64	20.85				
10	256QAM	36	0	20.79	21.05	20.88	21.02	20.90	21.8	0.6		
10	256QAM	36	48	21.01	20.92	20.92	21.00	20.90				
10	256QAM	36	96	20.80	21.08	21.06	20.81	20.82	21.8	0.6		
10	256QAM	56	0	20.80	20.91	21.17	20.72	20.92				
Channel												
Frequency [MHz]												
5	QPSK	1	0	21.62	21.64	21.54	21.58	21.77	22.4	0		
5	QPSK	1	12	21.65	21.72	21.40	21.71	21.77				
5	QPSK	1	24	21.64	21.77	21.86	21.79	21.83	22.4	0		
5	QPSK	12	0	21.71	21.73	21.48	21.53	21.77				
5	QPSK	12	48	21.71	21.72	21.81	21.69	21.69	22.4	0		
5	QPSK	12	96	21.67	21.74	21.70	21.73	21.76				
5	QPSK	36	0	21.81	21.82	21.59	21.74	21.71	22.4	0		
5	16QAM	1	0	21.75	21.68	21.70	21.88	21.76				
5	16QAM	1	12	21.74	21.79	21.60	21.70	21.81	22.4	0		
5	16QAM	1	24	21.72	21.72	21.87	21.80	21.90				
5	16QAM	12	0	21.87	21.81	21.49	21.88	21.88	22.4	0		
5	16QAM	12	48	21.71	21.69	21.57	21.69	21.60				
5	16QAM	12	96	21.65	21.59	21.59	21.74	21.80	22.4	0		
5	16QAM	36	0	21.77	21.70	21.60	21.82	21.81				
5	16QAM	1	0	21.62	21.48	21.47	21.53	21.65	22.4	0		
5	16QAM	1	12	21.57	21.63	21.44	21.58	21.71				
5	16QAM	1	24	21.57	21.47	21.60	21.63	21.74	22.4	0		
5	16QAM	12	0	21.58	21.63	21.40	21.48	21.58				
5	16QAM	12	48	21.71	21.63	21.63	21.52	21.65	22.4	0		
5	16QAM	12	96	21.68	21.64	21.52	21					
5	16QAM	36	0	21.79	21.70	21.47	21.87	21.65	22.4	0		
5	256QAM	1	0	20.99	20.87	20.98	20.86	20.90				
5	256QAM	1	12	20.80	20.91	20.87	20.75	20.88	21.8	0.6		
5	256QAM	1	24	20.88	20.79	20.95	20.79	20.83				
5	256QAM	36	0	20.79	21.11	20.96	20.99	20.95	21.8	0.6		
5	256QAM	36	48	21.08	20.91	20.89	21.07	20.97				
5	256QAM	36	96	21.11	21.02	20.91	20.99	20.91	21.8	0.6		
5	256QAM	56	0	21.03	21.07	21.08	20.95	20.97				
5	256QAM	56	48	20.79	21.05	21.06	20.88	20.91	21.8	0.6		
5	256QAM	56	96	20.79	21.05	21.06	20.88	20.91				



Full Power Mode - LAT

GSM900		Sust-Average Power (dBm)			Frame-Average Power (dBm)		
Tx Channel		198	198	201	198		201
Frequency (MHz)		824.2	836.4	848.6	824.2		848.6
Tx Channel		20.02	22.08	22.08	20.02		22.08
OPH5 1 Tx side		23.00	23.00	23.00	24.00		23.00
OPH5 3 Tx side		30.38	30.40	30.38	31.10		24.38
OPH5 4 Tx side		25.80	26.00	23.60	22.80		25.80
EDGE 1 Tx side		25.10	27.60	27.60	26.10		25.10
EDGE 2 Tx side		25.00	25.00	25.00	26.00		17.80
EDGE 3 Tx side		22.80	23.00	24.10	19.00		19.00
EDGE 4 Tx side		22.80	23.00	22.80	24.00		20.04
EDGE 4 Tx side		22.08	22.00	22.10	19.08		20.70

GSM1800		Sust-Average Power (dBm)			Frame-Average Power (dBm)		
Tx Channel		1812	1812	1810	1812		1810
Frequency (MHz)		1800.2	1800	1800.8	1800.2		1800.8
Tx Channel		20.72	20.60	20.68	20.72		20.68
OPH5 1 Tx side		25.70	26.00	26.00	26.00		21.00
OPH5 3 Tx side		25.84	26.00	26.00	26.00		22.10
OPH5 4 Tx side		38.12	25.08	38.63	27.00		21.77
EDGE 1 Tx side		25.10	26.00	25.00	19.00		19.00
EDGE 2 Tx side		25.08	24.80	25.12	18.00		18.00
EDGE 3 Tx side		24.05	23.75	24.10	18.00		18.00
EDGE 4 Tx side		22.10	22.00	22.00	18.00		18.00
EDGE 4 Tx side		22.02	21.80	22.07	18.00		18.00

Band		WCDMA S			WCDMA T			WCDMA V		
Tx Channel		9262	9400	9538	9312		1412	1412	4102	
Frequency (MHz)		902.4	900	897.8	1712.4		1732.8	1732.8	826.4	
SCPP Rel 99		24.21	24.38	24.23	24.00		24.30	24.27	24.80	
SCPP Rel 99		24.36	24.38	24.36	24.41		24.38	24.36	24.40	
SCPP Rel 99		23.39	23.41	23.27	23.00		23.22	23.34	23.80	
SCPP Rel 99		23.34	23.40	23.27	23.00		23.30	23.40	23.30	
SCPP Rel 99		23.81	23.81	23.73	23.30		23.83	23.38	23.00	
SCPP Rel 99		22.82	22.88	22.78	23.00		22.79	22.91	22.82	
SCPP Rel 99		23.25	23.38	23.17	23.00		23.07	23.20	23.17	
SCPP Rel 99		23.23	23.30	23.11	23.00		23.10	23.27	23.10	
SCPP Rel 99		22.81	22.84	22.62	23.00		22.69	22.81	22.74	
SCPP Rel 99		22.80	22.72	22.68	23.00		22.67	22.72	23.00	
SCPP Rel 99		23.22	23.27	23.00	23.00		23.16	23.28	23.24	
SCPP Rel 99		21.34	21.42	21.30	21.00		21.46	21.57	21.51	
SCPP Rel 99		21.32	21.40	21.26	21.00		21.31	21.48	21.40	
SCPP Rel 99		21.08	21.22	21.09	21.00		21.28	21.40	21.32	
SCPP Rel 99		23.30	23.50	23.20	23.00		23.22	23.52	23.42	
SCPP Rel 99		21.32	21.30	21.30	21.00		21.30	21.42	21.30	

Band		CDMA BC3			CDMA BC1			CDMA BC1b		
Tx Channel		1013	384	777	25		800	1170		476
Frequency (MHz)		813.6	413.4	241.1	143.2		117.4	117.4		413.6
Rel 1300S		23.68	23.71	23.50	24.00		23.68	23.70	23.40	
Rel 1300S		23.67	23.70	23.30	24.00		23.67	23.68	23.40	
Rel 1300S r1000		23.66	23.69	23.30	24.00		23.66	23.67	23.30	
Rel 1300S r1000		23.64	23.65	23.38	24.00		23.63	23.66	23.37	
Rel 1300S r1000		23.62	23.65	23.27	24.00		23.61	23.64	23.35	
Rel 1300S r1000		23.61	23.64	23.25	24.00		23.61	23.62	23.34	



MINISTRY OF NATIONAL DEFENSE
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Band 2 (100MHz Band) Part 24E									
BW (MHz)	Modulation	RB Slot	RB Offset	Power Ch./F/Freq.	Power Ch./F/Freq.	Power Ch./F/Freq.	Turn-on Time (s)	MPR (dB)	
Frequency (MHz)									
20 QPSK	1	0	23.90	23.71	23.93				
20 QPSK	1	49	23.89	23.84	23.85		24.8	0	
20 QPSK	1	99	23.94	23.88	23.96				
20 QPSK	50	0	23.90	23.85	23.90				
20 QPSK	50	24	22.95	23.02	23.08		23.8	1	
20 QPSK	50	50	23.04	23.01	23.04				
20 HQPSK	1	0	23.94	23.19	23.26				
20 HQPSK	1	49	23.18	23.25	23.14		23.8	1	
20 HQPSK	50	0	23.03	23.02	23.05				
20 HQPSK	50	24	22.11	22.03	21.97		22.8	2	
20 HQPSK	50	50	22.08	22.07	22.03				
20 HQPSK	100	0	22.06	22.06	21.90				
20 HQPSK	1	0	22.22	22.20	22.13				
20 HQPSK	1	49	22.12	22.16	22.06		22.8	2	
20 HQPSK	1	99	22.06	22.09	22.08				
20 HQPSK	50	0	21.94	21.95	21.97				
20 HQPSK	50	24	21.12	21.09	21.08		21.8	3	
20 HQPSK	50	50	21.12	21.12	21.05				
20 HQPSK	100	0	21.08	21.07	21.06				
20 HQPSK	1	0	21.07	21.04	21.08				
20 HQPSK	1	49	21.05	21.08	21.04		19.8	5	
20 HQPSK	1	99	21.12	21.06	21.12				
20 HQPSK	50	0	21.06	21.06	21.06				
20 HQPSK	50	24	19.03	19.08	19.17		19.8	5	
20 HQPSK	50	50	19.11	19.18	19.15				
20 HQPSK	100	0	19.04	19.08	19.08				
20 HQPSK	100	0	19.03	19.08	19.08				
Channel									
Frequency (MHz)	1867.5	1880	1902.5	Turn-on Time (s)	MPR (dB)				
15 QPSK	1	0	23.97	23.88	23.80				
15 QPSK	1	37	23.88	23.87	23.84		24.8	0	
15 QPSK	1	99	23.97	23.96	23.93				
15 QPSK	36	0	22.86	22.82	22.87				
15 QPSK	36	20	23.03	23.01	22.88		23.8	1	
15 QPSK	36	50	23.07	23.03	22.97				
15 HQPSK	1	0	23.16	23.09	23.43		23.8	1	
15 HQPSK	1	37	23.06	23.03	23.41				
15 HQPSK	1	99	23.16	23.03	23.40				
15 HQPSK	36	0	21.89	21.88	21.78				
15 HQPSK	36	20	21.88	22.05	21.88		22.8	2	
15 HQPSK	36	50	21.88	21.88	21.88				
15 HQPSK	75	0	21.88	21.88	21.88				
15 HQPSK	75	0	22.01	21.96	21.91				
15 HQPSK	1	0	22.04	22.00	21.76				
15 HQPSK	1	37	22.02	22.09	22.77		22.8	2	
15 HQPSK	1	99	22.02	22.02	22.77				
15 HQPSK	36	0	21.02	21.00	21.00				
15 HQPSK	36	20	21.02	21.00	21.09		21.8	3	
15 HQPSK	36	50	21.02	21.00	21.09				
15 HQPSK	75	0	21.06	21.08	21.12				
15 HQPSK	75	0	19.04	19.06	19.13		19.8	5	
15 HQPSK	1	37	19.12	19.24	19.20				
15 HQPSK	1	99	19.12	19.24	19.20				
15 HQPSK	36	0	19.03	19.05	19.02				
15 HQPSK	36	20	19.05	19.12	19.05		19.8	5	
15 HQPSK	36	50	19.05	19.12	19.05				
15 HQPSK	75	0	19.07	19.02	19.04				
15 HQPSK	75	0	19.07	19.02	19.04				
Channel									
Frequency (MHz)	1869.5	1880.5	1910.5	Turn-on Time (s)	MPR (dB)				
10 QPSK	1	0	23.85	23.80	23.88				
10 QPSK	1	37	23.86	23.86	23.86		24.8	0	
10 QPSK	1	49	23.91	23.86	23.82				
10 QPSK	25	0	22.86	22.86	22.80				
10 QPSK	25	20	23.00	23.04	22.88		23.8	1	
10 QPSK	25	25	23.00	23.04	22.88				
10 QPSK	50	0	23.04	22.89	22.82				
10 HQPSK	1	0	23.22	23.22	23.24				
10 HQPSK	1	49	23.20	23.22	23.28		23.8	1	
10 HQPSK	1	99	23.21	23.24	23.29				
10 HQPSK	25	0	22.02	22.03	21.73				
10 HQPSK	25	20	22.02	22.03	21.78		22.8	2	
10 HQPSK	25	25	22.10	22.09	21.90				
10 HQPSK	50	0	22.08	22.03	21.77				
10 HQPSK	1	0	22.01	22.04	22.16		22.8	2	
10 HQPSK	1	49	22.02	22.05	22.16				
10 HQPSK	1	99	22.18	22.13	22.27				
10 HQPSK	25	0	21.15	20.85	20.86				
10 HQPSK	25	12	21.06	21.06	21.06		21.8	3	
10 HQPSK	25	50	21.06	21.06	21.06				
10 HQPSK	50	0	21.03	21.04	20.94				
10 HQPSK	50	1	19.11	19.14	19.14		19.8	5	
10 HQPSK	50	24	19.07	19.10	19.17				
10 HQPSK	25	0	19.07	19.02	19.04				
10 HQPSK	25	12	19.07	19.05	19.03		19.8	5	
10 HQPSK	25	50	19.06	19.11	19.12				
10 HQPSK	50	0	19.05	19.03	19.04				
10 HQPSK	50	0	19.05	19.03	19.04				
Channel									
Frequency (MHz)	1869.5	1880.5	1910.5	Turn-on Time (s)	MPR (dB)				
5 QPSK	1	0	23.93	23.94	23.91				
5 QPSK	1	12	23.89	23.86	23.85		24.8	0	
5 QPSK	1	24	23.94	23.93	23.91				
5 QPSK	1	49	23.92	23.84	23.83				
5 QPSK	12	7	23.08	23.01	22.88		23.8	1	
5 QPSK	12	13	23.07	22.99	22.82				
5 QPSK	25	0	22.96	22.87	22.85				
5 HQPSK	1	0	23.16	23.21	23.29				
5 HQPSK	1	12	23.05	23.09	23.01		23.8	1	
5 HQPSK	1	24	23.20	23.33	23.35				
5 HQPSK	1	49	23.16	23.12	23.19				
5 HQPSK	12	7	22.13	21.93	22.05		22.8	2	
5 HQPSK	12	13	22.18	22.02	22.00				
5 HQPSK	25	0	22.00	22.04	21.93				
5 HQPSK	25	0	22.14	22.28	22.14		22.8	2	
5 HQPSK	1	12	22.12	22.39	22.14				
5 HQPSK	1	24	22.18	22.15	22.21				
5 HQPSK	12	0	21.06	20.94	21.06		21.8	3	
5 HQPSK	12	7	21.06	21.05	21.08				
5 HQPSK	12	13	21.05	21.01	21.07				
5 HQPSK	25	0	21.08	20.95	20.92				
5 HQPSK	25	1	19.11	19.14	19.14		19.8	5	
5 HQPSK	1	12	19.22	19.24	19.23				
5 HQPSK	1	24	19.24	19.26	19.14				
5 HQPSK	12	0	19.04	19.01	19.05				
5 HQPSK	12	7	19.07	19.05	19.11		19.8	5	
5 HQPSK	12	13	19.06	19.07	19.06				
5 HQPSK	25	0	19.06	19.03	19.04				
5 HQPSK	25	0	19.06	19.03	19.04				
Channel									
Frequency (MHz)	1869.5	1880.5	1910.5	Turn-on Time (s)	MPR (dB)				
3 QPSK	1	0	23.89	23.75	23.64				
3 QPSK	1	8	23.85	23.85	23.83		24.8	0	
3 QPSK	1	16	23.91	23.86	23.72				
3 QPSK	8	0	22.88	22.96	22.84				
3 QPSK	8	4	22.89	23.09	22.86		23.8	1	
3 QPSK	8	7	23.03	23.03	22.90				
3 QPSK	8	16	23.06	23.04	22.78				
3 HQPSK	1	0	23.23	23.14	23.08				
3 HQPSK	1	8	23.24	23.35	23.14		23.8	1	
3 HQPSK	1	16	23.16	23.32	23.12				
3 HQPSK	8	0	22.09	21.88	21.81				
3 HQPSK	8	4	22.14	21.97	21.94		22.8	2	
3 HQPSK	8	7	22.15	22.02	22.78				
3 HQPSK	8	16	22.03	22.04	21.90				
3 HQPSK	1	0	22.17	22.03	21.97				
3 HQPSK	1	8	22.18	22.26	22.03		22.8	2	
3 HQPSK	1	16	22.11	22.19	22.25				
3 HQPSK	8	0	21.02	20.98	20.83				
3 HQPSK	8	4	21.07	21.09	21.02		21.8	3	
3 HQPSK	8	7	21.04	21.12	20.97				
3 HQPSK	8	16	21.03	20.99	20.98				
3 HQPSK	1	0	19.10	19.12	19.11				
3 HQPSK	1	8	19.23	19.24	19.20		19.8	5	
3 HQPSK	1	16	19.24	19.26	19.13				
3 HQPSK	8	0	19.06	19.08	19.02				
3 HQPSK	8	4	19.10	19.14	19.05		19.8	5	
3 HQPSK	8	7	19.07	19.08	19.01				
3 HQPSK	8	16	19.02	19.05	19.05				
Channel									
Frequency (MHz)	1869.5	1880.5	1910.5	Turn-on Time (s)	MPR (dB)				
1.4 QPSK	1	0	23.91	23.83	23.81				
1.4 QPSK	1	0	23.91	23.83	23.81		24.8	0	
1.4 QPSK	1	5	23.91	23.84	23.84				
1.4 QPSK	3	0	23.88	23.91	23.70				
1.4 QPSK	3	1	23.96	23.88	23.72				
1.4 QPSK	3	3	23.91	23.86	23.72		23.8	1	
1.4 QPSK	3	6	22.97	23.08	22.78				
1.4 HQPSK	1	0	23.16	23.09	23.43				
1.4 HQPSK	1	3	23.06	23.03	23.41				
1.4 HQPSK	1	6	23.16	23.03	23.40				
1.4 HQPSK	3	0	21.89	21.88	21.78				
1.4 HQPSK	3	1	21.88	22.05	21.88		22.8	2	
1.4 HQPSK	3	3	22.00	22.03	21.8				



Band 12 (700MHz Low Band) Part 27f only (on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F/Freq.	Power Ch./F/Freq.	Power Ch./F/Freq.	Turn-up Int. (dBm)	MPR (dB)		
Frequency (MHz)										
Channel										
700.0 700.5 701.0										
10	QPSK	1	0	23.59	23.68	23.83				
10	QPSK	1	26	23.58	23.62	23.52	24.8	0		
10	QPSK	1	49	23.68	23.75	23.67				
10	QPSK	25	0	22.87	22.85	22.80	23.8			
10	QPSK	25	12	22.88	22.83	22.79				
10	QPSK	25	25	22.81	22.87	22.86				
10	16QAM	1	0	22.82	22.94	22.91				
10	16QAM	1	26	23.09	23.00	22.87	23.8	1		
10	16QAM	1	49	23.16	23.09	23.06				
10	16QAM	25	0	21.74	21.75	21.74				
10	16QAM	25	12	21.81	21.80	21.73				
10	16QAM	25	25	21.82	21.86	21.81	22.8	2		
10	16QAM	50	0	21.81	21.78	21.79				
10	16QAM	1	0	21.72	21.80	21.50				
10	16QAM	1	26	21.88	21.30	21.45	22.8	2		
10	16QAM	1	49	21.88	21.50	21.55				
10	16QAM	25	0	21.01	20.94	20.91				
10	16QAM	25	12	21.11	20.90	20.78	21.8	3		
10	16QAM	25	25	20.85	20.76	20.83				
10	16QAM	50	0	20.91	20.85	20.89				
10	256QAM	1	0	19.84	19.88	19.83				
10	256QAM	1	26	19.88	19.84	19.86	19.8	5		
10	256QAM	1	49	19.43	19.54	19.56				
10	256QAM	25	0	19.56	19.55	19.52				
10	256QAM	25	12	19.51	19.42	19.61	19.8	5		
10	256QAM	25	25	19.54	19.57	19.59				
10	256QAM	50	0	19.55	19.53	19.57				
Channel										
Frequency (MHz)										
701.5 707.5 713.5										
5	QPSK	1	0	23.57	23.61	23.64				
5	QPSK	1	12	23.63	23.72	23.70	24.8	0		
5	QPSK	1	24	23.64	23.65	23.64				
5	QPSK	12	0	22.72	22.75	22.77				
5	QPSK	12	7	22.77	22.83	22.77	23.8	1		
5	QPSK	12	13	22.77	22.82	22.78				
5	QPSK	25	0	22.75	22.79	22.74				
5	16QAM	1	0	22.96	23.00	22.98	23.8	1		
5	16QAM	1	12	22.99	23.18	23.04				
5	16QAM	12	0	21.78	21.80	21.80				
5	16QAM	12	7	21.79	21.83	21.81	22.8	2		
5	16QAM	12	13	21.78	21.83	21.84				
5	16QAM	25	0	21.78	21.84	21.75				
5	16QAM	1	0	21.45	21.41	21.47				
5	16QAM	1	12	21.83	21.50	21.74	22.8	2		
5	16QAM	12	0	21.78	21.76	21.74				
5	16QAM	12	7	20.88	20.55	21.01	21.8	3		
5	16QAM	12	7	20.97	20.53	20.88				
5	16QAM	12	13	20.71	20.62	20.76				
5	256QAM	1	0	20.99	20.51	20.89				
5	256QAM	1	0	19.59	19.83	19.58	19.8	5		
5	256QAM	1	12	19.63	19.51	19.59				
5	256QAM	1	12	19.61	19.45	19.61				
5	256QAM	12	0	19.51	19.50	19.51				
5	256QAM	12	7	19.48	19.33	19.35	19.8	5		
5	256QAM	12	13	19.46	19.32	19.54				
5	256QAM	25	0	19.50	19.48	19.52				
Channel										
Frequency (MHz)										
700.5 707.5 714.5										
3	QPSK	1	0	23.61	23.71	23.73				
3	QPSK	1	14	23.67	23.73	23.58	24.8	0		
3	QPSK	8	0	22.76	22.74	22.79				
3	QPSK	8	7	22.85	22.76	22.69	23.8	1		
3	QPSK	8	7	22.85	22.74	22.67				
3	16QAM	1	0	23.00	23.02	22.95	23.8	1		
3	16QAM	1	14	22.98	23.04	22.92				
3	16QAM	8	0	21.83	21.88	21.83	22.8	2		
3	16QAM	8	7	21.81	21.87	21.84				
3	16QAM	8	7	21.77	21.89	21.81				
3	16QAM	16	0	21.79	21.85	21.79				
3	16QAM	1	0	21.80	21.48	21.67	22.8	2		
3	16QAM	1	8	21.78	21.52	21.63	22.8	2		
3	16QAM	1	14	21.87	21.48	21.67				
3	16QAM	8	0	20.85	20.54	21.03				
3	16QAM	8	7	21.01	20.59	20.94	21.8	3		
3	16QAM	16	0	21.60	20.52	21.61				
3	256QAM	1	0	19.55	19.51	19.56				
3	256QAM	1	8	19.51	19.48	19.57	19.8	5		
3	256QAM	1	14	19.53	19.47	19.47				
3	256QAM	8	0	19.45	19.46	19.49				
3	256QAM	8	7	19.44	19.42	19.48	19.8	5		
3	256QAM	8	7	19.47	19.50	19.45				
3	256QAM	16	0	19.43	19.46	19.50				
Channel										
Frequency (MHz)										
2307.0 2306.5 2317.0										
1.4	QPSK	1	0	23.57	23.55	23.45				
1.4	QPSK	1	3	23.57	23.72	23.62				
1.4	QPSK	1	5	23.51	23.59	23.48	24.8	0		
1.4	QPSK	3	0	23.55	23.60	23.53				
1.4	QPSK	3	1	23.66	23.71	23.67				
1.4	QPSK	3	3	23.53	23.67	23.56				
1.4	QPSK	6	0	22.66	22.68	22.64	23.8	1		
1.4	16QAM	1	0	22.84	22.96	22.91				
1.4	16QAM	1	3	22.82	23.06	22.99				
1.4	16QAM	1	5	22.87	22.91	22.82	23.8	1		
1.4	16QAM	3	0	22.73	22.72	22.70				
1.4	16QAM	3	1	22.73	22.78	22.77				
1.4	16QAM	3	3	22.72	22.73	22.74	22.8	2		
1.4	16QAM	6	0	21.69	21.71	21.66	22.8	2		
1.4	16QAM	1	0	21.84	21.51	21.68				
1.4	16QAM	1	3	21.81	21.45	21.94				
1.4	16QAM	1	5	21.89	21.44	21.73	22.8	2		
1.4	16QAM	3	0	21.79	21.53	21.68				
1.4	16QAM	3	1	21.79	21.49	21.93				
1.4	16QAM	3	3	21.47	21.51	21.78				
1.4	16QAM	6	0	20.54	20.55	20.78	21.8	3		
1.4	256QAM	1	0	19.51	19.57	19.52				
1.4	256QAM	1	3	19.53	19.44	19.45				
1.4	256QAM	1	5	19.29	19.43	19.43				
1.4	256QAM	3	0	19.41	19.42	19.45	19.8	5		
1.4	256QAM	3	1	19.41	19.24	19.51				
1.4	256QAM	3	3	19.43	19.42	19.42				
1.4	256QAM	6	0	19.39	19.42	19.46	19.8	5		

Band 13(700MHz Band) Part 27f										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F/Freq.	Power Ch./F/Freq.	Power Ch./F/Freq.	Power Ch./F/Freq.	Turn-up Int. (dBm)	MPR (dB)	
Frequency (MHz)										
Channel										
10	QPSK	1	0		23.47					
10	QPSK	1	26		23.53			24.8	0	
10	QPSK	1	49		23.26					
10	QPSK	25	0		22.80			23.8		
10	QPSK	25	12		22.84					
10	QPSK	25	25		22.66					
10	16QAM	1	0		22.87					
10	16QAM	1	26		22.86			23.8	1	
10	16QAM	1	49		22.79					
10	16QAM	25	0		21.63					
10	16QAM	25	12		21.69			22.8	2	
10	16QAM	25	25		21.58					
10	16QAM	50	0		20.92					
10	16QAM	1	0		21.52			22.8	2	
10	16QAM	1	26		21.70					
10	16QAM	1	49		21.55					
10	16QAM	25	0		20.91			21.8	3	
10	16QAM	25	12		20.51					
10	16QAM	25	25		20.48					
10	16QAM	50	0		20.16					
10	256QAM	1	0		19.48			19.8	5	
10	256QAM	1	26		19.85					
10	256QAM	1	49		19.43					
10	256QAM	25	0		18.76			19.4		
10	256QAM	25	12		19.48					
10	256QAM	25	25		19.43					
10	256QAM	50	0		18.48					
Frequency (MHz)				700.0	700.5	701.0	701.5	702.0	702.5	703.0
5	QPSK	1	0		23.47	23.43	23.40			
5	QPSK	1	12		23.54	23.54	23.43			
5	QPSK	1	24		23.64	23.40	23.30			
5	QPSK	12	0		22.80	22.80	22.68			
5	QPSK	12	7		22.72	22.60	22.58			
5	QPSK	12	13		22.68	22.59	22.54			
5	QPSK	25	0		22.87	22.59	22.58			
5	16QAM	1	0		20.93	20.84	20.83			
5	16QAM	1	12		22.06	22.03	22.78			
5	16QAM	1	24		22.04	22.77	22.71			
5	16QAM	12	0		21.78	21.69	21.64			
5	16QAM	12	7		21.80	21.62	21.61			
5	16QAM	12	13		21.72	21.64	21.58			
5	16QAM	25	0		21.73	21.66	21.67			
5	16QAM	25	12		21.65	21.56	21.67			
5	16QAM	25	12		20.31	20.72	20.69			
5	16QAM	25	25		20.36	20.68	20.68			
5	16QAM	12	13		20.73	20.62	20.65			
5	16QAM	25	0		20.57	20.67	20.68			
5	256QAM	1	0		18.54	18.45	18.55			
5	256QAM	1	12		19.46	19.33	19.47			
5	256QAM	1	24		19.28	19.62	19.59			
5	256QAM	12	0		19.38	19.41	19.43			
5	256QAM	12	7		19.44	19.47	19.48			
5	256QAM	12	13		19.48	19.42	19.43			
5	256QAM	25	0		19.45	19.43	19.38			



Band 26 for FCC (only on channel required)									
BW (MHz)	Modulation	RF Size	RF Offset	Power Ch./F/Freq.	Power Ch./F/Freq.	Power Ch./F/Freq.	Turn-on Time (s)	MPR (dB)	
Channel									
Frequency (MHz)									
16	QPSK	1	0	23.65	23.58	23.65			
16	QPSK	1	37	23.58	23.46	23.57	24.8	0	
16	QPSK	1	74	23.46	23.34	23.41			
16	QPSK	3	0	23.65	23.65	23.65			
16	QPSK	36	20	23.74	22.76	22.77	23.8	1	
16	QPSK	36	59	22.65	22.68	22.73			
16	QPSK	75	0	23.67	23.66	23.73			
16	QPSK	1	0	22.65	22.57	22.60			
16	QPSK	1	37	22.50	22.41	22.41	23.8	1	
16	QPSK	1	74	22.42	22.38	22.42			
16	QPSK	1	0	21.74	21.71	21.74			
16	QPSK	36	20	21.74	21.67	21.75	22.8	2	
16	QPSK	36	59	21.71	21.73	21.73			
16	QPSK	75	0	21.77	21.66	21.76			
16	QPSK	1	0	21.83	21.84	21.87			
16	QPSK	1	37	21.85	21.83	21.87	22.8	2	
16	QPSK	1	74	21.81	21.81	21.79			
16	QPSK	1	0	20.75	20.76	20.74			
16	QPSK	36	20	20.70	20.40	20.82	21.8	3	
16	QPSK	36	59	20.76	20.74	20.84			
16	QPSK	75	0	20.86	20.72	20.72			
16	QPSK	1	0	18.86	18.86	18.86			
16	QPSK	1	37	18.81	18.84	18.84	19.8	5	
16	QPSK	1	74	18.86	18.82	18.79			
16	QPSK	36	0	18.87	18.86	18.86			
16	QPSK	36	20	18.98	18.86	18.91	19.8	5	
16	QPSK	36	59	18.96	18.91	18.83			
16	QPSK	75	0	18.97	18.86	18.96			
Channel									
Frequency (MHz)									
16	QPSK	1	0	819	831.5	844	Turn-on Time (s)	MPR (dB)	
16	QPSK	1	0	23.65	23.60	23.60			
16	QPSK	1	25	23.62	23.58	23.63	24.8	0	
16	QPSK	1	49	23.54	23.46	23.51			
16	QPSK	25	0	22.79	22.74	22.73			
16	QPSK	25	12	22.78	22.73	22.77	23.8	1	
16	QPSK	25	12	22.78	22.73	22.77			
16	QPSK	50	0	22.78	22.68	22.68			
16	QPSK	1	0	23.12	23.05	23.08			
16	QPSK	1	25	23.02	23.03	23.03	23.8	1	
16	QPSK	1	49	23.00	22.91	22.91			
16	QPSK	25	0	21.88	21.87	21.72			
16	QPSK	25	12	21.79	21.71	21.72	22.8	2	
16	QPSK	1	0	21.86	21.86	21.86			
16	QPSK	1	25	21.86	21.53	21.56	22.8	2	
16	QPSK	1	49	21.83	21.82	21.76			
16	QPSK	25	0	20.82	20.85	20.76			
16	QPSK	25	12	20.85	20.81	20.79	21.8	3	
16	QPSK	25	12	20.85	20.86	20.76			
16	QPSK	1	0	18.82	18.87	18.82			
16	QPSK	1	25	18.86	18.81	18.86	19.8	5	
16	QPSK	1	49	18.86	18.86	18.86			
16	QPSK	25	0	18.94	18.95	18.95			
16	QPSK	25	12	18.92	18.93	18.88	19.8	5	
16	QPSK	25	12	18.96	18.93	18.93			
16	QPSK	50	0	18.90	18.95	18.90			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.64	23.41	23.41			
5	QPSK	1	24	23.67	23.28	23.58	24.8	0	
5	QPSK	12	0	22.88	22.71	22.78			
5	QPSK	12	7	22.86	22.76	22.74	23.8	1	
5	QPSK	12	13	22.81	22.69	22.69			
5	QPSK	25	0	22.80	22.67	22.72			
5	QPSK	1	0	21.73	21.52	21.52	23.8	1	
5	QPSK	1	49	21.60	21.62	21.60			
5	QPSK	1	24	21.61	21.61	21.61			
5	QPSK	12	0	21.61	21.76	21.79			
5	QPSK	12	7	21.62	21.82	21.75	22.8	2	
5	QPSK	12	13	21.62	21.73	21.69			
5	QPSK	25	0	21.62	21.74	21.73			
5	QPSK	1	0	21.64	21.61	21.65			
5	QPSK	1	12	21.67	21.58	21.67	22.8	2	
5	QPSK	1	24	21.63	21.84	21.87			
5	QPSK	12	0	20.83	20.47	20.84			
5	QPSK	12	7	20.84	20.46	20.84	21.8	3	
5	QPSK	12	13	20.85	20.53	20.74			
5	QPSK	25	0	20.83	20.36	20.77			
5	QPSK	1	0	18.80	18.85	18.80	19.8	5	
5	QPSK	12	0	18.86	18.86	18.84			
5	QPSK	12	7	18.90	18.87	18.74			
5	QPSK	12	13	18.92	18.93	18.87	19.8	5	
5	QPSK	25	0	18.94	18.86	18.79			
5	QPSK	25	12	18.98	18.93	18.91			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.59	23.13	23.58			
3	QPSK	1	8	23.55	23.18	23.58	24.8	0	
3	QPSK	1	14	23.54	23.31	23.50			
3	QPSK	1	0	23.48	23.43	23.39			
3	QPSK	8	4	22.84	22.79	22.74	23.8	1	
3	QPSK	15	0	22.82	22.71	22.69			
3	QPSK	1	0	21.60	21.56	21.60			
3	QPSK	1	8	21.67	21.62	21.66	23.8	1	
3	QPSK	1	14	21.62	21.61	21.61			
3	QPSK	1	24	21.63	21.88	21.80	22.8	2	
3	QPSK	8	7	21.85	21.81	21.73			
3	QPSK	15	0	21.83	21.73	21.73			
3	QPSK	1	0	21.82	21.48	21.87			
3	QPSK	1	8	21.83	21.48	21.84	22.8	2	
3	QPSK	1	14	21.89	21.58	21.90			
3	QPSK	1	24	21.86	21.42	21.79	21.8	3	
3	QPSK	8	4	20.87	20.41	20.79			
3	QPSK	15	0	20.78	20.40	20.74			
3	QPSK	1	0	18.81	18.83	18.86			
3	QPSK	1	8	18.88	18.80	18.82	19.8	5	
3	QPSK	1	14	18.90	18.87	18.75			
3	QPSK	8	0	18.94	18.92	18.96			
3	QPSK	8	4	18.98	18.88	18.85			
3	QPSK	8	7	18.92	18.86	18.77	19.8	5	
3	QPSK	15	0	18.96	18.86	18.86			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	814.7	831.5	846.3	Turn-on Time (s)	MPR (dB)	
1.4	QPSK	1	0	23.55	23.40	23.35			
1.4	QPSK	1	3	23.55	23.44	23.37	24.8	0	
1.4	QPSK	1	6	23.48	23.43	23.39			
1.4	QPSK	3	0	23.59	23.44	23.38			
1.4	QPSK	3	1	23.47	23.51	23.43	23.8	1	
1.4	QPSK	3	3	23.52	23.46	23.36			
1.4	QPSK	3	6	22.77	22.94	22.87			
1.4	QPSK	1	0	23.08	22.82	22.80			
1.4	QPSK	1	3	23.07	22.88	22.83	23.8	1	
1.4	QPSK	1	6	22.93	22.86	22.79			
1.4	QPSK	3	0	22.83	22.67	22.61			
1.4	QPSK	3	1	22.84	22.79	22.63	22.8	2	
1.4	QPSK	3	3	22.81	22.71	22.67			
1.4	QPSK	1	0	21.82	21.68	21.71			
1.4	QPSK	1	0	21.95	21.55	21.69	22.8	2	
1.4	QPSK	1	3	21.99	21.53	21.81			
1.4	QPSK	1	6	21.94	21.54	21.68	22.8	2	
1.4	QPSK	3	0	21.83	21.50	21.75			
1.4	QPSK	3	1	21.97	21.58	21.63	21.8	3	
1.4	QPSK	3	3	21.93	21.61	21.70			
1.4	QPSK	1	0	20.46	20.36	20.50			
1.4	QPSK	1	0	18.89	18.91	18.97			
1.4	QPSK	1	3	18.94	18.87	18.79	19.8	5	
1.4	QPSK	1	6	18.92	18.91	18.94			
1.4	QPSK	3	1	18.98	18.86	18.83			
1.4	QPSK	3	3	18.90	18.86	18.75	19.8	5	
1.4	QPSK	6	0	18.92	18.94	18.87	19.8	5	

Band 30									
BW (MHz)	Modulation	RF Size	RF Offset	Power Low Ch./F	Power Mid Ch./F	Power High Ch./F	Turn-up Time (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0		23.98				
10	QPSK	1	25		24.05		24.8	0	
10	QPSK	1	49		23.92				
10	QPSK	25	0		23.10				
10	QPSK	25	12		23.11				
10	QPSK	25	25		23.14				
10	QPSK	50	0		23.12				
10	QPSK	1	0		23.27				
10	QPSK	1	25		23.52		23.8	1	
10	QPSK	1	49		23.53				
10	QPSK	25	0		23.11				
10	QPSK	25	12		23.16				
10	QPSK	25	25		23.15				
10	QPSK	50	0		23.19				
10	QPSK	1	0		23.76				
10	QPSK	1	25		23.92		23.8	2	
10	QPSK	1	49		23.25				
10	QPSK	25	0		23.79				
10	QPSK	25	12		23.88				
10	QPSK	1	25		23.16		21.8	3	
10	QPSK	50	0		23.15				
10	25QAM	1	0		19.36				
10	25QAM	1	25		19.37		19.8	5	
10	25QAM	1	49		19.43				
10	25QAM	25	0		19.21				
10	25QAM	25	12		19.23				
10	25QAM	25	25		19.22				
10	25QAM	50	0		19.23				
Channel									
Frequency (MHz)									
5	QPSK	1	0		23.93	23.70	23.92		
5	QPSK	1	12		23.78	23.68	23.82	24.8	0
5	QPSK	1	24		23.85	23.87	23.83		
5	QPSK	12	0		23.12	23.16	23.18		
5	QPSK	12	7		23.24	23.15	23.21		
5	QPSK	12	13		23.22	23.13	23.25	23.8	1
5	QPSK	25	0		23.11	23.11	23.18		
5	QPSK	1	49		23.23	23.13	23.40		
5	QPSK	1	12		23.21	23.31	23.58	23.8	1
5	QPSK	1	24		23.34	23.37	23.53		
5	QPSK	12	0		22.17	22.22	22.21		
5	QPSK	12	7		22.28	22.29	22.25		
5	QPSK	12	13		22.27	22.18	22.17	22.8	2
5	QPSK	25	0		22.13	22.23	22.86		
5	QPSK	1	12		21.84	22.02	22.30	22.8	2
5	QPSK	1	24		21.91	22.21	22.30		
5	QPSK	12	0		20.91	21.14	21.16		
5	QPSK	12	7		20.83	21.15	21.29		
5	QPSK	12	13		21.02	21.21	21.28	21.8	3
5	QPSK	25	0		20.81	21.06	21.21		
5	QPSK	1	49		19.06	19.11	19.20		
5	25QAM	1	12		19.25	19.25	19.11	19.8	5
5	25QAM	1	24		19.27	19.13	19.15		
5	25QAM	12	0		18.36	18.97	19.96		
5	25QAM	12	7		19.05	19.96	19.97		
5	25QAM	12	13		19.05	19.06	19.15	19.8	5
5	25QAM	25	0		19.09	19.02	19.85		



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Band 33(only on channel required)												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch [Fwh]	Power Middle Ch [Fwh]	Power High Ch [Fwh]	Turn-up level (dBm)	MPR (dB)				
Channel												
37860 38000 38160												
Frequency (MHz)												
20	QPSK	1	0	23.91	23.77	23.67	24.8	0				
20	QPSK	1	4	24.04	23.84	24.03						
20	QPSK	1	8	24.04	23.84	24.03						
20	QPSK	50	0	23.13	23.04	23.12	23.8	1				
20	QPSK	50	24	23.30	23.06	23.13						
20	QPSK	50	48	23.26	23.06	23.11						
20	QPSK	100	0	23.18	23.14	23.17	23.8	1				
20	16QAM	1	0	23.21	23.01	23.06						
20	16QAM	1	4	23.25	22.98	23.01						
20	16QAM	1	8	23.21	23.00	23.06	23.8	1				
20	16QAM	50	0	22.16	22.06	22.12						
20	16QAM	50	24	22.24	22.08	22.14						
20	16QAM	100	0	22.22	22.07	22.13	22.8	2				
20	16QAM	100	4	22.24	22.07	22.13						
20	16QAM	100	8	22.22	22.07	22.11						
20	64QAM	1	0	21.93	21.73	21.88	22.8	2				
20	64QAM	1	4	21.90	21.74	21.87						
20	64QAM	1	8	21.93	21.74	21.87						
20	64QAM	50	0	21.22	21.04	21.22	21.8	3				
20	64QAM	50	24	21.30	21.07	21.24						
20	64QAM	50	48	21.25	21.07	21.24						
20	256QAM	1	0	19.27	19.10	19.14	19.8	5				
20	256QAM	1	4	19.24	19.10	19.17						
20	256QAM	1	8	19.27	19.10	19.17						
20	256QAM	50	0	19.07	19.10	19.07	19.8	5				
20	256QAM	50	24	19.35	19.22	19.22						
20	256QAM	50	48	19.22	19.21	19.22						
20	256QAM	100	0	19.27	19.22	19.22	19.8	5				
Channel												
37860 38000 38175												
Frequency (MHz)												
15	QPSK	1	0	23.90	23.80	23.84				24.8	0	
15	QPSK	1	37	24.01	23.83	23.87						
15	QPSK	1	74	24.01	23.83	23.88						
15	QPSK	36	0	23.08	22.95	23.07	23.8	1				
15	QPSK	36	36	23.21	22.94	23.07						
15	QPSK	36	72	23.17	22.95	23.10						
15	QPSK	72	0	23.23	22.96	23.06	23.8	1				
15	QPSK	72	36	23.23	22.96	23.06						
15	QPSK	72	72	23.23	22.96	23.06						
15	16QAM	1	0	22.22	22.03	22.27	23.8	1				
15	16QAM	1	37	22.22	21.99	22.23						
15	16QAM	1	74	22.28	21.85	22.23						
15	16QAM	36	0	22.00	21.88	21.93	22.8	2				
15	16QAM	36	36	22.20	21.91	22.03						
15	16QAM	36	72	22.20	21.91	22.03						
15	16QAM	72	0	22.14	21.92	22.07	22.8	2				
15	16QAM	72	36	22.24	21.92	22.07						
15	16QAM	72	72	22.24	21.92	22.07						
15	64QAM	1	0	22.10	21.90	21.89	22.8	2				
15	64QAM	1	37	22.17	21.90	22.00						
15	64QAM	1	74	22.09	21.89	22.04						
15	64QAM	36	0	21.24	21.00	21.15	21.8	3				
15	64QAM	36	36	21.20	20.95	21.05						
15	64QAM	36	72	21.20	20.95	21.05						
15	256QAM	1	0	19.17	19.07	19.24	19.8	5				
15	256QAM	1	37	19.20	19.07	19.17						
15	256QAM	1	74	19.20	19.07	19.17						
15	256QAM	36	0	19.16	19.04	19.34	19.8	5				
15	256QAM	36	36	19.44	19.36	19.32						
15	256QAM	36	72	19.41	19.36	19.32						
15	256QAM	72	0	19.17	19.07	19.30	19.8	5				
15	256QAM	72	36	19.47	19.37	19.30						
15	256QAM	72	72	19.47	19.37	19.30						
Channel												
37860 38000 38200												
Frequency (MHz)												
15	QPSK	1	0	24.10	23.84	23.92	24.8	0				
15	QPSK	1	25	24.02	23.80	23.85						
15	QPSK	1	49	24.10	23.82	24.00						
15	QPSK	25	0	23.17	22.92	23.11	23.8	1				
15	QPSK	25	12	23.24	22.88	23.10						
15	QPSK	25	25	23.16	22.94	23.20						
15	QPSK	50	0	23.20	22.92	23.12	23.8	1				
15	QPSK	50	12	23.24	22.94	23.20						
15	QPSK	50	25	23.20	22.92	23.12						
15	16QAM	1	0	23.14	22.96	23.18	23.8	1				
15	16QAM	1	25	23.16	22.95	23.31						
15	16QAM	1	49	23.24	22.92	23.28						
15	16QAM	25	0	22.09	21.96	22.09	22.8	2				
15	16QAM	25	12	22.18	21.91	22.02						
15	16QAM	25	25	22.18	21.91	22.02						
15	16QAM	50	0	22.22	21.97	22.22	22.8	2				
15	16QAM	50	12	22.22	21.97	22.22						
15	16QAM	50	25	22.25	21.92	22.23						
15	64QAM	1	0	22.02	21.91	22.02	22.8	2				
15	64QAM	1	25	22.03	21.92	22.03						
15	64QAM	1	49	22.21	21.99	22.32						
15	64QAM	25	0	21.25	21.07	21.24	21.8	3				
15	64QAM	25	12	21.24	21.01	21.24						
15	64QAM	25	25	21.25	21.00	21.25						
15	256QAM	1	0	19.16	19.05	19.23	19.8	5				
15	256QAM	1	25	19.35	19.02	19.23						
15	256QAM	1	49	19.44	19.04	19.20						
15	256QAM	25	0	19.14	19.04	19.36	19.8	5				
15	256QAM	25	12	19.53	19.04	19.32						
15	256QAM	25	25	19.52	19.04	19.34						
15	256QAM	50	0	19.15	19.05	19.35	19.8	5				
15	256QAM	50	12	19.53	19.05	19.32						
15	256QAM	50	25	19.53	19.05	19.34						
Channel												
37875 38000 38225												
Frequency (MHz)												
5	QPSK	1	0	24.03	23.80	23.86	24.8	0				
5	QPSK	1	12	23.98	23.80	23.81						
5	QPSK	1	24	24.02	23.81	23.89						
5	QPSK	12	0	23.23	23.00	23.12	23.8	1				
5	QPSK	12	7	23.24	22.99	23.10						
5	QPSK	12	13	23.23	22.98	23.17						
5	16QAM	1	0	23.30	23.01	23.27	23.8	1				
5	16QAM	1	12	23.27	23.00	23.28						
5	16QAM	1	24	23.31	23.00	23.30						
5	16QAM	12	0	22.21	22.00	22.13	22.8	2				
5	16QAM	12	7	22.23	22.00	22.22						
5	16QAM	12	13	22.20	22.00	22.17						
5	16QAM	25	0	22.00	21.90	22.16	22.8	2				
5	16QAM	25	12	22.17	21.90	22.21						
5	16QAM	25	24	22.24	21.90	22.21						
5	64QAM	1	0	21.25	21.04	21.23	21.8	3				
5	64QAM	12	0	21.25	21.04	21.23						
5	64QAM	12	7	21.23	21.10	21.22						
5	256QAM	1	0	19.46	19.38	19.31	19.8	5				
5	256QAM	1	12	19.43	19.42	19.31						
5	256QAM	1	24	19.38	19.38	19.36						
5	256QAM	12	0	19.51	19.42	19.46	19.8	5				
5	256QAM	12	7	19.49	19.44	19.45						
5	256QAM	12	13	19.46	19.44	19.43						



Reduced power for Hotspot on-LAT

Band		100MHz			500MHz TV		
Tx Channel		9462	9460	9458	Turn-up		
Rx Channel		9962	9960	9958	Level		
Frequency (MHz)		1852.4	1850	1847.6	(dBm)		
		18.62	18.68	18.65	20.30	20.29	20.36
SCPP Rel 20	AMN 12.20000	18.62	18.68	18.65	20.30	20.29	20.36
SCPP Rel 16	AMN 12.20000	18.68	18.74	18.74	20.36	20.32	20.40
SCPP Rel 6	HSUPA Subnet 1	18.74	18.81	18.87	19.30	19.32	19.44
SCPP Rel 8	HSUPA Subnet 2	18.74	18.80	18.87	19.30	19.40	19.42
SCPP Rel 2	HSUPA Subnet 3	18.71	18.71	18.73	18.88	18.82	18.83
SCPP Rel 4	HSUPA Subnet 4	18.22	18.20	18.16	18.88	18.81	18.82
SCPP Rel 5	DC-HSUPA Subnet 1	18.85	18.70	18.57	19.30	19.17	19.27
SCPP Rel 9	DC-HSUPA Subnet 6	18.63	18.72	18.81	19.30	19.20	19.20
SCPP Rel 8	DC-HSUPA Subnet 5	18.21	18.24	18.02	18.88	18.79	18.84
SCPP Rel 6	DC-HSUPA Subnet 4	18.00	18.12	18.08	18.88	18.77	18.89
SCPP Rel 5	HSUPA Subnet 1	18.62	18.67	18.40	19.30	19.28	19.24
SCPP Rel 4	HSUPA Subnet 2	18.74	18.82	18.70	17.30	17.56	17.67
SCPP Rel 6	HSUPA Subnet 3	18.72	18.82	18.88	16.38	16.41	16.36
SCPP Rel 8	HSUPA Subnet 4	18.48	18.62	18.43	17.30	17.56	17.42
SCPP Rel 5	HSUPA Subnet 5	18.70	18.80	18.60	19.30	19.32	19.52
SCPP Rel 7	HSUPA (HSPA) Subnet 7	20.72	20.60	18.75	21.20	17.46	17.41

Band		CDMA BC1			Turn-up	
Tx Channel		26	260	3170	Level	
Frequency (MHz)		1851.25	1850	1858.75	(dBm)	
BC1 BCDS	20.88	20.62	20.88	22.00		
BC3 BCDS	20.88	20.71	20.85	22.00		
BC3 BCDS (F+BCCH)	20.85	20.60	20.83	22.00		
BC3 BCDS (F+BCCH)	20.84	20.68	20.82	22.00		
BC3 BCDS (F+BCCH)	20.82	20.85	20.80	22.00		
BC3 BCDS (F+BCCH)	20.80	20.80	20.78	22.00		



Band 2 (1900MHz Band)																
Part 24E																
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freqs	Power Ch / Freqs	Power Ch / Freqs	Turn-on time (dBm)	APR (dB)								
Channel																
Frequency (MHz)																
18670 18680 19150																
20	QPSK	1	0	19.38	19.60	19.50	20.8	0								
20	QPSK	1	49	19.37	19.53	19.65										
20	QPSK	1	99	19.44	19.44	19.75										
20	QPSK	50	0	19.37	19.48	19.58	20.8	0								
20	QPSK	50	24	19.41	19.62	19.68										
20	QPSK	50	50	19.34	19.60	19.66										
20	16QAM	1	0	19.62	19.57	19.57	20.8	0								
20	16QAM	1	49	19.57	19.53	19.58										
20	16QAM	1	99	19.53	19.51	19.62										
20	16QAM	50	0	19.45	19.60	19.65	20.8	0								
20	16QAM	50	24	19.59	19.57	19.59										
20	16QAM	50	50	19.67	19.59	19.54										
20	16QAM	100	0	19.59	19.57	19.58	20.8	0								
20	64QAM	1	0	19.62	19.63	19.59										
20	64QAM	1	49	19.53	19.58	19.67										
20	64QAM	1	99	19.45	19.55	19.51	20.8	0								
20	64QAM	50	0	19.57	19.50	19.51										
20	64QAM	50	24	19.51	19.52	19.52										
20	64QAM	50	50	19.62	19.58	19.65	20.8	0								
20	64QAM	100	0	19.68	19.67	19.62										
20	256QAM	1	0	19.06	19.06	19.04										
20	256QAM	1	99	19.03	19.07	19.06	19.8	1								
20	256QAM	50	0	19.02	19.07	19.02										
20	256QAM	50	24	19.06	19.06	19.02										
20	256QAM	50	50	19.02	19.03	19.06	19.8	1								
20	256QAM	100	0	19.06	19.06	19.04										
20	256QAM	100	0	19.07	19.06	19.05										
Channel																
18675 18680 19150																
16	QPSK	1	0	19.28	19.52	19.42	20.8	0								
16	QPSK	1	37	19.30	19.40	19.52										
16	QPSK	1	74	19.34	19.50	19.58										
16	QPSK	36	0	19.28	19.43	19.52	20.8	0								
16	QPSK	36	20	19.41	19.57	19.61										
16	QPSK	36	20	19.33	19.58	19.65										
16	QPSK	75	0	19.35	19.50	19.58	20.8	0								
16	16QAM	1	0	19.51	19.57	19.48										
16	16QAM	1	37	19.42	19.45	19.51										
16	16QAM	36	0	19.40	19.42	19.51	20.8	0								
16	16QAM	36	0	19.38	19.49	19.36										
16	16QAM	36	20	19.54	19.55	19.59										
16	16QAM	75	0	19.39	19.50	19.51	20.8	0								
16	16QAM	75	0	19.50	19.51	19.51										
16	64QAM	1	0	19.57	19.49	19.40	20.8	0								
16	64QAM	1	37	19.48	19.47	19.53										
16	64QAM	36	0	19.40	19.47	19.54										
16	64QAM	36	0	19.45	19.50	19.57	20.8	0								
16	64QAM	36	20	19.46	19.57	19.57										
16	64QAM	36	20	19.57	19.58	19.58										
16	64QAM	75	0	19.57	19.63	19.52	19.8	1								
16	256QAM	1	0	19.03	19.05	19.06										
16	256QAM	1	37	19.00	19.07	19.06										
16	256QAM	1	74	19.06	19.06	19.05	19.8	1								
16	256QAM	36	0	19.05	19.02	19.09										
16	256QAM	36	20	19.82	19.02	19.83										
16	256QAM	75	0	19.03	19.79	19.81	19.8	1								
16	256QAM	75	0	19.07	19.86	19.85										
16	256QAM	75	0	19.07	19.86	19.85										
Channel																
18650 18660 19150																
16	QPSK	1	0	19.34	19.52	19.50	20.8	0								
16	QPSK	1	49	19.31	19.55	19.56										
16	QPSK	1	99	19.33	19.54	19.58										
16	QPSK	25	0	19.30	19.58	19.59	20.8	0								
16	QPSK	25	25	19.27	19.55	19.53										
16	QPSK	50	0	19.33	19.45	19.53										
16	16QAM	1	0	19.57	19.44	19.48	20.8	0								
16	16QAM	1	24	19.43	19.53	19.55										
16	16QAM	1	49	19.46	19.50	19.55										
16	16QAM	25	0	19.44	19.58	19.31	20.8	0								
16	16QAM	25	12	19.54	19.58	19.58										
16	16QAM	25	25	19.61	19.48	19.42										
16	16QAM	50	0	19.50	19.45	19.45	20.8	0								
16	64QAM	1	0	19.51	19.48	19.39										
16	64QAM	1	24	19.43	19.58	19.59										
16	64QAM	1	49	19.36	19.44	19.79	20.8	0								
16	64QAM	25	0	19.42	19.57	19.52										
16	64QAM	25	12	19.55	19.47	19.48										
16	64QAM	25	25	19.48	19.53	19.53	20.8	0								
16	64QAM	50	0	19.53	19.52	19.51										
16	256QAM	1	0	19.02	19.09	19.01	19.8	1								
16	256QAM	1	24	19.02	19.17	19.07										
16	256QAM	1	49	19.06	19.06	19.09										
16	256QAM	25	0	19.08	19.06	19.02	19.8	1								
16	256QAM	25	12	19.85	19.02	19.82										
16	256QAM	25	25	19.80	19.70	19.75										
16	256QAM	50	0	19.00	19.00	19.01	19.8	1								
16	256QAM	50	0	19.00	19.00	19.01										
16	256QAM	50	0	19.01	19.00	19.02										
Channel																
18625 18630 19175																
5	QPSK	1	0	19.30	19.45	19.45	20.8	0								
5	QPSK	1	12	19.35	19.39	19.56										
5	QPSK	1	24	19.38	19.53	19.63										
5	QPSK	1	24	19.36	19.54	19.63	20.8	0								
5	QPSK	12	7	19.29	19.53	19.54										
5	QPSK	12	13	19.34	19.55	19.59										
5	QPSK	25	0	19.31	19.61	19.65	20.8	0								
5	16QAM	1	0	19.60	19.58	19.54	20.8	0								
5	16QAM	1	12	19.65	19.49	19.53										
5	16QAM	1	24	19.39	19.57	19.57										
5	16QAM	12	7	19.30	19.57	19.57	20.8	0								
5	16QAM	12	13	19.37	19.58	19.62										
5	16QAM	12	13	19.37	19.58	19.62										
5	16QAM	25	0	19.62	19.58	19.54	20.8	0								
5	16QAM	25	12	19.48	19.45	19.63										
5	16QAM	25	24	19.54	19.46	19.57										
5	16QAM	50	0	19.56	19.58	19.54	20.8	0								
5	64QAM	1	0	19.60	19.04	19.01										
5	64QAM	1	12	19.68	19.01	19.06										
5	64QAM	25	0	19.58	19.59	19.58	19.8	1								
5	64QAM	25	12	19.07	19.83	19.91										
5	64QAM	25	24	19.86	19.83	19.87										
5	256QAM	12	13	19.83	19.82	19.86	19.8	1								
5	256QAM	12	13	19.83	19.82	19.86										
5	256QAM	12	13	19.83	19.82	19.86										
Channel																
18615 18620 19185																
3	QPSK	1	0	19.29	19.54	19.47	20.8	0								
3	QPSK	1	7	19.24	19.58	19.61										
3	QPSK	1	14	19.48	19.58	19.65										
3	QPSK	3	0	19.34	19.44	19.58	20.8	0								
3	QPSK	3	7	19.37	19.56	19.57										
3	QPSK	3	14	19.39	19.56	19.61										
3	QPSK	15	0	19.28	19.56	19.60	20.8	0								
3	16QAM	1	0	19.60	19.44	19.42										
3	16QAM	1	7	19.57	19.52	19.47										
3	16QAM	3	0	19.47	19.36	19.62	20.8	0								
3	16QAM	3	7	19.40	19.53	19.51										
3	16QAM	3	14	19.53	19.43	19.47										
3	16QAM	8	0	19.58	19.53	19.53	20.8	0								
3	16QAM	8	7	19.58	19.53	19.53										
3	16QAM	8	14	19.44	19.48	19.51										
3	16QAM	15	0	19.60	19.53	19.53	20.8	0								
3	16QAM	15	7	19.60	19.48	19.48										
3	16QAM	15	14	19.44	19.41	19.22										
3	64QAM	3	0	19.51	19.43	19.46	20.8	0								
3	64QAM	3	7	19.59	19.48	19.44										
3	64QAM	3	14	19.56	19.47	19.44										
3	64QAM	8	0	19.56	19.53	19.53	20.8	0								
3	64QAM	8	7	19.56	19.53	19.53										
3	64QAM	8	14	19.44	19.41	19.22										
3	64QAM	15	0	19.64	19.61	19.62	20.8	0								
3	64QAM	15	7	19.62	19.56	19.56										
3	64QAM	15	14	19.40	19.37	19.18										
3	256QAM	3	0	19.03	19.00	19.87	19.8	1								
3	256QAM	3	7	19.88	19.01	19.88										
3	256QAM	3	14	19.86	19.05	19.86										
3	256QAM	8	0	19.06	19.06	19.06	19.8	1								
3	256QAM	8	7	19.85	19.89	19.75										
3	256QAM	15	0	19.87	19.85	19.85										
Channel																
18620 18625 19190																
1.4	QPSK	1	0	19.33	19.53	19.44	20.8	0								
1.4	QPSK	1	3	19.36	19.50	19.54										
1.4	QPSK	1	6	19.34	19.55	19.59										
1.4	QPSK	3	0	19.24	19.45	19.55	20.8	0								
1.4	QPSK	3	3	19.29	19.58	19.60										
1.4	QPSK	3	6	19.32	19.47	19.61										
1.4	QPSK	15	0	19.32	19.49	19.57	20.8	0								
1.4	QPSK	15	3	19.32	19.49	19.57										
1.4	QPSK	15	6	19.41	19.50	19.43										
1.4	16QAM	1	0	19.54	19.51	19.45	20.8	0								
1.4	16QAM	1	3	19.54	19.51	19.45										
1.4	16QAM	1	6	19.49	19.53	19.44										
1.4	16QAM	3	0	19.53	19.50	19										

Band 27 (700MHz Low Band) Part 27H(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freqs	Power Ch / Freqs	Power Ch / Freqs	Turn-up level (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.82	22.77	22.79			
10	QPSK	1	28	22.83	22.86	22.85	24	0	
10	QPSK	49		22.88	22.92	22.82			
10	QPSK	25	0	22.83	22.84	22.86			
10	QPSK	25	12	22.83	22.86	22.77	24	0	
10	QPSK	25	20	22.88	22.90	22.80			
10	QPSK	50	0	22.83	22.86	22.80			
10	16QAM	1	0	22.85	22.80	22.90			
10	16QAM	1	28	22.88	22.90	22.82	24	0	
10	16QAM	1	49	22.85	22.75	22.85			
10	16QAM	25	0	21.03	21.00	21.00			
10	16QAM	25	12	21.05	21.84	21.79			
10	16QAM	25	20	21.73	21.78	21.68	23	1	
10	16QAM	50	0	21.85	21.84	21.86			
10	84QAM	1	0	21.97	21.79	22.01			
10	84QAM	1	20	22.24	22.28	22.17	23	1	
10	84QAM	1	49	21.97	22.13	21.81			
10	84QAM	25	0	20.90	20.92	20.93			
10	84QAM	25	12	20.98	20.97	20.90	22	2	
10	84QAM	25	20	20.91	20.93	20.90			
10	256QAM	50	0	20.90	20.87	20.94			
10	256QAM	1	0	19.06	19.11	19.06			
10	256QAM	1	20	19.05	19.07	19.04	19.8	4.2	
10	256QAM	1	49	19.01	19.05	19.02			
10	256QAM	12	0	19.03	19.06	19.00			
10	256QAM	25	12	18.99	19.02	18.99	19.8	4.2	
10	256QAM	25	20	18.97	19.00	18.96			
10	256QAM	50	0	19.00	19.02	19.00			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.67	22.72	22.70			
5	QPSK	1	12	22.77	22.71	22.76	24	0	
5	QPSK	1	24	22.86	22.74	22.83			
5	QPSK	12	0	22.67	22.83	22.84			
5	QPSK	12	7	22.70	22.86	22.86	24	0	
5	QPSK	12	14	22.78	22.91	22.74			
5	QPSK	25	0	22.83	22.77	22.88			
5	16QAM	1	0	22.83	22.69	22.87			
5	16QAM	1	12	22.68	22.76	22.73	24	0	
5	16QAM	1	24	22.86	22.74	22.83			
5	16QAM	12	0	21.91	21.76	21.75			
5	16QAM	12	7	21.93	21.73	21.78	23	1	
5	16QAM	12	14	21.96	21.98	21.80			
5	16QAM	25	0	21.86	21.71	21.80			
5	84QAM	1	0	21.85	21.68	21.82			
5	84QAM	1	12	22.21	22.23	22.14	23	1	
5	84QAM	1	24	21.85	21.80	21.83			
5	84QAM	12	0	20.76	20.79	20.82			
5	84QAM	12	7	20.95	20.78	20.85	22	2	
5	84QAM	12	14	20.78	20.96	20.71			
5	256QAM	25	0	20.89	20.77	20.88			
5	256QAM	1	0	18.97	18.98	18.94			
5	256QAM	1	12	18.91	18.95	18.92	19.8	4.2	
5	256QAM	1	24	18.95	18.96	18.90			
5	256QAM	12	0	18.98	18.94	18.86			
5	256QAM	12	7	18.93	18.93	18.87	19.8	4.2	
5	256QAM	12	14	18.96	18.98	18.95			
5	256QAM	25	0	18.90	18.92	18.85			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.74	22.77	22.74			
3	QPSK	1	8	22.72	22.83	22.72	24	0	
3	QPSK	1	14	22.84	22.86	22.82			
3	QPSK	8	0	22.69	22.79	22.78			
3	QPSK	8	4	22.83	22.84	22.88	24	0	
3	QPSK	8	7	22.86	22.89	22.86			
3	QPSK	16	0	22.73	22.80	22.72			
3	16QAM	1	0	22.76	22.75	22.82			
3	16QAM	1	8	22.81	22.80	22.88	24	0	
3	16QAM	1	14	22.73	22.83	22.48			
3	16QAM	8	0	21.90	21.83	21.78			
3	16QAM	8	4	21.85	21.82	21.73	23	1	
3	16QAM	8	7	21.71	21.78	21.70			
3	84QAM	1	0	21.91	21.70	21.83			
3	84QAM	1	8	22.11	22.18	22.14	23	1	
3	84QAM	1	14	21.97	22.12	21.76			
3	84QAM	8	0	20.77	20.91	20.71			
3	84QAM	8	4	20.94	20.91	20.78	22	2	
3	84QAM	8	7	20.72	20.93	20.83			
3	84QAM	16	0	20.87	20.83	20.81			
3	256QAM	1	0	18.96	19.00	19.04	19.8	4.2	
3	256QAM	1	8	19.04	18.90	18.96			
3	256QAM	1	14	18.97	18.96	18.90			
3	256QAM	8	0	18.96	18.93	18.91	19.8	4.2	
3	256QAM	8	4	18.94	18.95	18.97			
3	256QAM	8	7	18.93	18.91	18.89			
3	256QAM	16	0	18.93	18.95	19.00			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.69	22.64	22.68			
1.4	QPSK	1	3	22.76	22.73	22.75			
1.4	QPSK	1	5	22.75	22.80	22.70	24	0	
1.4	QPSK	3	0	22.70	22.78	22.74			
1.4	QPSK	3	1	22.76	22.71	22.85			
1.4	QPSK	3	3	22.79	22.75	22.74			
1.4	QPSK	6	0	22.78	22.87	22.69	24	0	
1.4	16QAM	1	0	22.80	22.70	22.83			
1.4	16QAM	1	3	22.66	22.89	22.89			
1.4	16QAM	1	5	22.73	22.84	22.52	24	0	
1.4	16QAM	3	0	22.37	22.37	22.39			
1.4	16QAM	3	1	22.33	22.28	22.29			
1.4	16QAM	3	3	22.13	22.28	22.27			
1.4	16QAM	6	0	21.87	21.73	21.79	23	1	
1.4	84QAM	1	0	21.85	21.71	21.83			
1.4	84QAM	1	3	22.24	22.16	22.09			
1.4	84QAM	1	5	21.89	22.00	21.89	23	1	
1.4	84QAM	3	0	21.52	21.67	21.62			
1.4	84QAM	3	1	21.57	21.45	21.47			
1.4	84QAM	3	3	21.45	21.51	21.46			
1.4	84QAM	6	0	20.83	20.87	20.83	22	2	
1.4	256QAM	1	0	19.04	19.11	19.05			
1.4	256QAM	1	3	19.01	19.08	19.02	19.8	4.2	
1.4	256QAM	1	5	18.96	19.05	19.02			
1.4	256QAM	3	0	18.96	19.03	18.96			
1.4	256QAM	3	1	19.00	18.96	18.95			
1.4	256QAM	3	3	18.84	18.86	18.87			
1.4	256QAM	6	0	18.90	19.01	18.95	19.8	4.2	

Band 17 (700MHz Band) Part 27H(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freqs	Power Main Ch / Freqs	Power Sub Ch / Freqs	Turn-up level (dBm)	MPE (dB)	
Channel				20.92	20.90	20.90			
Frequency (MHz)				710	710	711			
10	QPSK	1	0	22.74	22.69	22.71			
10	QPSK	1	26	22.65	22.77	22.71	24	0	
10	QPSK	1	49	22.68	22.87	22.84			
10	QPSK	25	0	22.69	22.73	22.70			
10	QPSK	25	12	22.79	22.76	22.71	24	0	
10	QPSK	25	20	22.65	22.84	22.82			
10	QPSK	50	0	22.62	22.81	22.80			
10	16QAM	1	0	22.76	22.84	22.74			
10	16QAM	1	26	22.77	22.83	22.78	24	0	
10	16QAM	1	49	22.77	22.81	22.71			
10	16QAM	25	0	21.09	21.80	21.73			
10	16QAM	25	12	21.91	21.78	21.78	23	1	
10	16QAM	25	20	21.90	21.83	21.83			
10	16QAM	50	0	21.75	21.82	21.69			
10	84QAM	1	0	21.80	21.71	21.74			
10	84QAM	1	26	21.87	21.87	21.84	23	1	
10	84QAM	1	49	21.84	21.88	21.97			
10	84QAM	25	0	20.59	20.80	20.83			
10	84QAM	25	20	20.79	20.83	20.78	22	2	
10	84QAM	50	0	20.76	20.98	20.70			
10	256QAM	1	0	19.00	19.10	19.07			
10	256QAM	1	26	19.08	19.08	19.02	19.8	4.2	
10	256QAM	1	49	19.03	19.07	19.03			
10	256QAM	12	0	19.08	19.11	19.06			
10	256QAM	25	12	19.04	19.05	19.02	19.8	4.2	
10	256QAM	25	20	19.00	19.01	18.99			
10	256QAM	50	0	19.03	19.03	19.01			
Channel				709.5	710	713.5	Turn-up level (dBm)	MPE (dB)	
Frequency (MHz)				709.5	710	713.5			
5	QPSK	1	0	22.67	22.60	22.67			
5	QPSK	1	12	22.49	22.60	22.62	24	0	
5	QPSK	1	24	22.68	22.78	22.69			
5	QPSK	12	0	22.60	22.64	22.60			
5	QPSK	12	7	22.61	22.69	22.66	24	0	
5	QPSK	12	14	22.64	22.68	22.70			
5	16QAM	1	0	22.68	22.78	22.63			
5	16QAM	1	12	22.60	22.62	22.62	24	0	
5	16QAM	1	24	22.62	22.70	22.60			
5	16QAM	12	0	21.43	21.62	21.68			
5	16QAM	12	7	21.62	21.60	21.68	23	1	
5	16QAM	12	14	21.70	21.78	21.62			
5	16QAM	12	21	21.64	21.68	21.60			
5	16QAM	1	0	21.72	21.67	21.67	23	1	
5	84QAM	1	12	21.79	21.50	21.78			
5	84QAM	1	24	21.60	21.65	21.67	23	1	
5	84QAM	12	0	20.65	20.79	20.69			
5	84QAM	12	7	20.87	20.72	20.70	22	2	
5	84QAM	12	14	20.72	20.62	20.59			
5	84QAM	25	0	20.70	20.66	20.69			
5	256QAM	1	0	19.88	19.90	19.92			
5	256QAM	1	12	19.87	19.90	19.84	19.8	4.2	
5	256QAM	1	24	19.95	19.91	19.84			
5	256QAM	12	0	19.87	19.91	19.86			
5	256QAM	12	7	19.90	19.92	19.92			
5	256QAM	12	14	19.93	19.81	19.78	19.8	4.2	
5	256QAM	25	0	19.90	19.86	19.86			

Band 30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Turn-on time (s/min)	MFR (dB)	
Channel									
Frequency (MHz)									
27715									
10	QPSK	1	0	20.83			21.7	0	
10	QPSK	1	25	20.83					
10	QPSK	1	49	20.76					
20	QPSK	25	0	20.76			21.7	0	
10	QPSK	25	12	20.83					
10	QPSK	25	25	20.70					
10	QPSK	50	0	20.80			21.7	0	
10	16QAM	1	0	20.76					
10	16QAM	1	25	20.80					
10	16QAM	1	49	20.58			21.7	0	
20	16QAM	25	0	20.53					
10	16QAM	25	12	20.55					
10	16QAM	25	25	20.64			21.7	0	
10	16QAM	12	0	20.62					
10	16QAM	1	0	20.81					
10	16QAM	1	25	20.77			21.7	0	
10	16QAM	1	49	20.57					
20	16QAM	25	0	20.50					
10	16QAM	25	12	20.59			21.7	0	
10	16QAM	25	25	20.79					
10	16QAM	50	0	20.76			19.7	2	
20	16QAM	1	0	19.75					
10	16QAM	1	25	19.79					
20	16QAM	1	49	19.68			19.7	2	
20	16QAM	25	0	19.60					
10	16QAM	25	12	19.67					
10	16QAM	25	25	19.80			19.7	2	
20	16QAM	50	0	19.64					
Channel									
Frequency (MHz)									
27765									
5	QPSK	1	0	20.74	20.69	20.72	21.7	0	
5	QPSK	1	12	20.74	20.70	20.73			
5	QPSK	1	24	20.65	20.61	20.69			
5	QPSK	12	0	20.68	20.63	20.64	21.7	0	
5	QPSK	12	7	20.68	20.64	20.64			
5	QPSK	12	13	20.58	20.52	20.43			
5	QPSK	25	0	20.67	20.76	20.69	21.7	0	
5	16QAM	1	0	20.58	20.51	20.64			
5	16QAM	1	12	20.73	20.74	20.73			
5	16QAM	1	24	20.47	20.41	20.48	21.7	0	
5	16QAM	12	0	20.33	20.32	20.32			
5	16QAM	12	7	20.43	20.38	20.38			
5	16QAM	12	13	20.45	20.40	20.40	21.7	0	
5	16QAM	25	0	20.41	20.48	20.48			
5	16QAM	1	0	20.65	20.70	20.75			
5	16QAM	1	12	20.58	20.59	20.51	21.7	0	
5	16QAM	1	24	20.67	20.65	20.64			
5	16QAM	12	0	20.23	20.30	20.30			
5	16QAM	12	7	20.73	20.71	20.71	21.7	0	
5	16QAM	12	13	20.68	20.72	20.76			
5	16QAM	25	0	20.63	20.72	20.76			
5	16QAM	1	0	18.99	18.92	18.93	19.7	2	
5	16QAM	1	12	18.84	18.86	18.89			
5	16QAM	1	24	18.98	18.92	18.95			
5	16QAM	12	0	18.79	18.85	18.82	19.7	2	
5	16QAM	12	7	18.69	18.71	18.70			
5	16QAM	12	13	18.78	18.79	18.81			
5	16QAM	25	0	18.88	18.82	18.83			

Band 66									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Turn-on time (s/min)	MFR (dB)	
Channel									
Frequency (MHz)									
130072									
20	QPSK	1	0	20.14	20.37	20.37	21.2	0	
20	QPSK	1	49	20.10	20.28	20.28			
20	QPSK	1	99	20.03	20.16	20.15			
20	QPSK	50	0	20.05	20.27	20.19	21.2	0	
20	QPSK	50	24	20.12	20.36	20.28			
20	QPSK	50	50	19.97	20.22	20.15			
20	QPSK	100	0	20.10	20.33	20.23	21.2	0	
20	16QAM	1	0	20.32	20.19	20.24			
20	16QAM	1	49	19.94	20.29	20.27			
20	16QAM	1	99	20.26	20.28	20.22	21.2	0	
20	16QAM	50	0	20.03	20.03	20.15			
20	16QAM	50	24	20.10	20.03	20.28			
20	16QAM	50	50	20.13	20.18	20.10	21.2	0	
20	16QAM	100	0	20.10	20.04	20.04			
20	16QAM	1	0	20.12	20.25	20.20			
20	16QAM	1	49	20.11	20.25	20.20	21.2	0	
20	16QAM	1	99	20.12	20.25	20.20			
20	16QAM	50	0	20.20	20.15	20.09			
20	16QAM	50	24	20.21	20.21	20.10	21.2	0	
20	16QAM	50	50	20.20	20.13	20.15			
20	16QAM	100	0	20.03	20.09	20.12			
20	16QAM	50	0	19.97	19.98	19.98	19.7	1.5	
20	16QAM	1	49	19.06	19.04	19.05			
20	16QAM	1	99	19.04	19.02	19.02			
20	16QAM	50	0	18.98	18.93	18.93	19.7	1.5	
20	16QAM	50	24	18.88	18.90	18.87			
20	16QAM	50	50	18.85	18.88	18.87			
20	16QAM	100	0	18.87	18.89	18.88	19.7	1.5	
Channel									
Frequency (MHz)									
17171.5									
15	QPSK	1	0	20.09	20.24	20.27	21.2	0	
15	QPSK	1	37	20.05	20.14	20.12			
15	QPSK	1	74	19.94	19.93	20.00			
15	QPSK	36	0	20.03	20.19	20.09	21.2	0	
15	QPSK	36	20	20.01	20.32	20.18			
15	QPSK	36	36	19.89	19.73	19.86			
15	QPSK	75	0	20.02	20.23	20.10	21.2	0	
15	QPSK	1	0	20.19	20.12	20.10			
15	16QAM	1	37	19.91	20.21	20.23			
15	16QAM	1	74	20.25	20.18	20.12	21.2	0	
15	16QAM	36	0	19.99	20.02	20.09			
15	16QAM	36	20	19.97	19.97	20.15			
15	16QAM	36	36	19.89	19.79	19.91	21.2	0	
15	16QAM	75	0	20.03	19.97	19.98			
15	16QAM	1	0	20.11	20.24	20.20			
15	16QAM	1	37	20.05	20.11	20.20	21.2	0	
15	16QAM	1	74	19.97	20.15	20.12			
15	16QAM	36	0	20.13	20.15	19.78			
15	16QAM	36	20	20.12	20.21	19.93	21.2	0	
15	16QAM	36	36	20.05	19.78	20.13			
15	16QAM	75	0	19.98	20.03	20.00			
15	16QAM	1	0	19.97	19.98	19.99	19.7	1.5	
15	16QAM	1	37	19.93	19.93	19.94			
15	16QAM	1	74	19.97	19.98	19.99			
15	16QAM	36	0	18.85	18.89	18.90	19.7	1.5	
15	16QAM	36	20	18.85	18.87	18.80			
15	16QAM	36	36	18.80	18.86	18.86			
15	16QAM	75	0	18.79	18.76	18.74	19.7	1.5	
Channel									
Frequency (MHz)									
130052									
10	QPSK	1	0	20.08	20.27	20.25	21.2	0	
10	QPSK	1	25	19.96	20.24	20.20			
10	QPSK	1	49	19.90	20.07	20.08			
10	QPSK	25	0	20.02	20.18	20.15	21.2	0	
10	QPSK	25	12	20.11	20.14	20.16			
10	QPSK	25	25	19.85	20.08	20.13			
10	QPSK	50	0	20.01	20.21	20.16	21.2	0	
10	QPSK	1	0	20.29	20.17	20.10			
10	QPSK	1	25	19.80	20.18	20.11	21.2	0	
10	QPSK	1	49	19.74	20.12	20.09			
10	QPSK	50	0	19.99	20.19	20.16			
10	QPSK	50	24	20.00	20.20	20.17	21.2	0	
10	QPSK	50	49	19.98	20.19	20.16			
10	QPSK	100	0	19.99	20.09	20.06			
10	QPSK	100	24	19.98	20.18	20.15	21.2	0	
10	QPSK	100	49	19.97	20.17	20.14			
10	QPSK	200	0	19.98	20.06	20.03			
10	QPSK	200	24	19.97	20.05	20.02	19.7	1.5	
10	QPSK	200	49	19.96	20.04	20.01			
10	QPSK	400	0	19.96	20.02	19.99			
10	QPSK	400	24	19.95	20.01	19.98	19.7	1.5	
10	QPSK	400	49	19.94	20.00	19.97			
10	QPSK	800	0	19.94	19.97	19.97			
10	QPSK	800	24	19.93	19.96	19.96	19.7	1.5	
10	QPSK	800	49	19.92	19.95	19.95			
10	QPSK	1600	0	19.92	19.94	19.94			
10	QPSK	1600	24	19.91	19.93	19.93	19.7	1.5	
10	QPSK	1600	49	19.90	19.92	19.92			
10	QPSK	3200	0	19.90	19.90	19.90			
10	QPSK	3200	24	19.89	19.89	19.89	19.7	1.5	
10	QPSK	3200	49	19.88	19.88	19.88			
10	QPSK	6400	0	19.88	19.88	19.88			
10	QPSK	6400	24	19.87	19.87	19.87	19.7	1.5	
10	QPSK	6400	49	19.86	19.86	19.86			
10	QPSK	12800	0	19.86	19.86	19.86			
10	QPSK	12800	24	19.85	19.85	19.85	19.7	1.5	
10	QPSK	12800	49	19.84	19.84	19.84			
10	QPSK	25600	0	19.84	19.84	19.84			
10	QPSK	25600	24	19.83	19.83	19.83	19.7	1.5	
10	QPSK	25600	49	19.82	19.82	19.82			
10	QPSK	51200	0	19.82	19.82	19.82			
10	QPSK	51200	24	19.81	19.81	19.81	19.7	1.5	
10	QPSK	51200	49	19.80	19.80	19.80			
10	QPSK	102400	0	19.80	19.80	19.80			
10	QPSK	102400	24	19.79	19.79	19.79	19.7	1.5	
10	QPSK	102400	49	19.78	19.78	19.78			
10	QPSK	204800	0	19.78	19.78	19.78			
10	QPSK	204800	24	19.77	19.77	19.77	19.7	1.5	
10	QPSK	204800	49	19.76	19.76	19.76			
10	QPSK	409600	0	19.76	19.76	19.76			
10	QPSK	409600	24	19.75	19.75	19.75	19.7	1.5	
10	QPSK	409600	49	19.74	19.74	19.74			
10	QPSK	819200	0	19.74	19.74	19.74			
10	QPSK	819200	24	19.73	19.73	19.73	19.7	1.5	
10	QPSK	819200	49	19.72	19.72	19.72			
10	QPSK	1638400	0	19.72	19.72	19.72			
10	QPSK	1638400	24	19.71	19.71	19.71	19.7	1.5	
10	QPSK	1638400	49	19.70	19.70	19.70			
10	QPSK	3276800	0	19.70	19.70	19.70			
10	QPSK	3276800	24	19.69	19.69	19.69	19.7	1.5	
10	QPSK	3276800	49	19.68	19.68	19.68			
10	QPSK	6553600	0	19.68	19.68	19.68			
10	QPSK	6553600	24	19.67	19.67	19.67	19.7	1.5	
10	QPSK	6553600	49	19.66	19.66	19.66			
10	QPSK	13107200	0	19.66	19.66	19.66			
10	QPSK	13107200	24	19.65	19.65	19.65	19.7	1.5	
10	QPSK	13107200	49	19.64	19.64	19.64			
10	QPSK	26214400	0	19.64	19.64	19.64			
10	QPSK	26214400	24	19.63	19.63	19.63	21.2	0	
10	QPSK	26214400	49	19.62	19.62	19.62			
10	QPSK	52428800	0	19.62	19.62	19.62			
10	QPSK	52428800	24	19.61	19.61	19.61	21.2	0	
10	QPSK	52428800	49	19.60	19.60	19.60			
10	QPSK	104857600	0	19.60	19.60	19.60			
10	QPSK	104857600	24	19.59	19.59	19.59	21.2	0	
10	QPSK	104857600	49	19.58	19.58	19.58			
10	QPSK	209715200	0	19.58	19.58	19.58			
10	QPSK	209715200	24	19.57	19.57	19.57	21.2	0	
10	QPSK	209715200	49	19.56	19.56	19.56			
10	QPSK	419430400	0	19.56	19.56	19.56			
10	QPSK	419430400	24	19.55	19.55	19.55	21.2	0	
10	QPSK	419430400	49	19.54	19.54	19.54			
10	QPSK	838860800	0	19.54	19.54	19.54			
10	QPSK	838860800	24	19.53	19.53	19.53	21.2	0	
10	QPSK	838860800	49	19.52	19.52	19.52			
10	QPSK	1677721600	0	19.52	19.52	19.52			
10	QPSK	1677721600	24	19.51	19.51	19.51	21.2	0	
10	QPSK	1677721600	49	19.50	19.50	19.50			
10	QPSK	3355443200	0	19.50	19.50	19.50			
10	QPSK	3355443200	24	19.49	19.49	19.49	21.2	0	
10	QPSK	3355443200	49	19.48	19.48	19.48			
10	QPSK	6710886400	0	19.48	19.48	19.48			
10	QPSK	6710886400	24	19.47	19.47	19.47	21.2	0	
10	QPSK	6710886400	49	19.46	19.46	19.46			
10	QPSK	13421772800	0	19.46	19.46	19.46			
10	QPSK	13421772800	24	19.45	19.45	19.45	21.2	0	
10	QPSK	13421772800	49	19.44	19.44	19.44			
10	QPSK	26843545600	0	19.44	19.44	19.44			
10	QPSK	26843545600	24	19.43	19.43	19.43	21.2	0	
10	QPSK	26843545600	49	19.42	19.42	19.42			
10	QPSK	53687091200	0	19.42	19.42	19.42			
10	QPSK	53687091200	24	19.41					



MINISTRY OF NATIONAL DEFENSE
T.C. SAKARYA VALİSİ

Band 33(only on channel required)												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch [Fwh]	Power Middle Ch [Fwh]	Power High Ch [Fwh]	Turn-up level (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.18	22.13	22.10	23.1	0				
20	QPSK	4	0	22.21	22.21	22.20						
20	QPSK	1	96	22.34	22.29	22.21						
20	QPSK	56	0	22.22	22.22	22.15						
20	QPSK	56	24	22.32	22.27	22.19	23.1	0				
20	QPSK	56	56	22.30	22.23	22.16						
20	16QAM	1	0	22.31	22.30	22.18						
20	16QAM	1	48	22.33	22.10	22.10						
20	16QAM	1	96	22.31	22.12	22.08	23.1	0				
20	16QAM	56	0	22.31	22.07	22.03						
20	16QAM	56	24	22.32	22.12	22.13						
20	16QAM	100	0	22.30	22.22	22.16						
20	16QAM	100	0	22.31	22.26	22.18	23.1	0				
20	16QAM	1	0	21.68	21.73	21.69						
20	16QAM	1	48	21.81	21.70	21.73						
20	16QAM	1	96	21.73	21.84	21.84						
20	16QAM	56	0	21.69	21.76	21.66	22.1	1				
20	16QAM	56	24	21.18	21.16	21.09						
20	16QAM	56	56	21.14	21.17	21.17						
20	16QAM	100	0	21.12	21.09	21.01						
20	25QAM	1	0	19.92	19.90	19.90	19.8	3.3				
20	25QAM	1	48	19.90	19.91	19.91						
20	25QAM	1	96	19.91	19.97	19.90						
20	25QAM	56	0	19.93	19.90	19.92						
20	25QAM	56	24	18.95	19.22	19.10	19.8	3.3				
20	25QAM	56	56	18.98	19.09	19.09						
20	25QAM	100	0	18.96	19.12	19.12						
20	25QAM	100	0	18.96	19.12	19.12						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.15	22.11	21.96	23.1	0				
15	QPSK	1	37	22.21	22.22	22.11						
15	QPSK	1	74	22.27	22.19	22.12						
15	QPSK	56	0	22.14	22.15	22.12						
15	QPSK	1	0	22.15	22.10	22.10	23.1	0				
15	QPSK	1	37	22.16	22.12	22.11						
15	QPSK	1	74	22.27	22.19	22.12						
15	QPSK	56	0	22.14	22.15	22.12						
15	QPSK	56	24	22.17	22.12	22.02	23.1	0				
15	QPSK	75	0	22.21	22.14	22.11						
15	QPSK	1	0	22.21	22.16	22.16						
15	16QAM	1	37	22.28	21.97	22.10						
15	16QAM	1	74	22.23	22.06	22.11	23.1	0				
15	16QAM	56	0	22.08	22.01	21.98						
15	16QAM	56	24	22.01	22.01	21.94						
15	16QAM	56	56	22.02	22.06	22.02						
15	16QAM	100	0	22.02	22.06	22.02	23.1	0				
15	16QAM	100	0	22.03	22.07	22.03						
15	16QAM	56	0	22.04	22.01	21.98						
15	16QAM	56	24	22.01	22.01	21.94						
15	16QAM	56	56	22.02	22.06	22.02	23.1	0				
15	16QAM	100	0	22.02	22.06	22.02						
15	16QAM	100	0	22.03	22.07	22.03						
15	16QAM	56	0	22.04	22.01	21.98						
15	16QAM	56	24	22.01	22.01	21.94	23.1	0				
15	16QAM	56	56	22.02	22.06	22.02						
15	16QAM	100	0	22.02	22.06	22.02						
15	16QAM	100	0	22.03	22.07	22.03						
15	25QAM	1	0	19.92	19.90	19.90	19.8	3.3				
15	25QAM	1	37	19.92	19.91	19.91						
15	25QAM	1	74	19.90	19.91	19.91						
15	25QAM	56	0	19.93	19.90	19.92						
15	25QAM	56	24	18.95	19.22	19.10	19.8	3.3				
15	25QAM	56	56	18.98	19.09	19.09						
15	25QAM	100	0	18.96	19.12	19.12						
15	25QAM	100	0	18.96	19.12	19.12						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.03	22.02	22.02	23.1	0				
5	QPSK	1	12	22.08	22.08	22.14						
5	QPSK	1	24	22.21	22.22	22.14						
5	QPSK	12	0	22.10	22.21	22.14						
5	QPSK	12	13	22.15	22.02	22.15	23.1	0				
5	QPSK	12	13	22.18	22.22	22.07						
5	QPSK	25	0	22.25	22.13	22.04						
5	QPSK	1	0	22.29	22.23	22.09						
5	16QAM	1	12	22.21	22.10	22.07	23.1	0				
5	16QAM	1	24	22.17	21.98	22.01						
5	16QAM	12	0	22.08	21.98	22.01						
5	16QAM	12	13	22.08	22.11	22.08						
5	16QAM	25	0	22.01	22.01	21.89	23.1	0				
5	16QAM	51	0	21.80	21.70	21.69						
5	16QAM	1	12	21.70	21.58	21.59						
5	16QAM	1	24	21.61	21.63	21.62						
5	16QAM	51	0	20.99	21.04	20.98	22.1	1				
5	16QAM	12	7	21.13	21.09	21.03						
5	16QAM	12	13	21.14	21.14	21.10						
5	16QAM	25	0	21.01	21.05	21.01						
5	25QAM	1	0	18.88	18.91	18.91	19.8	3.3				
5	25QAM	1	12	18.89	19.19	19.16						
5	25QAM	1	24	18.98	19.22	18.91						
5	25QAM	51	0	18.87	19.02	19.00						
5	25QAM	12	7	18.88	19.11	18.98	19.8	3.3				
5	25QAM	12	13	18.91	19.04	19.04						
5	25QAM	25	0	18.93	19.12	19.12						
5	25QAM	25	0	18.93	19.12	19.12						

Band 41 (2.6G Band)												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Fwh]	Power Middle Ch. [Fwh]	Power High Ch. [Fwh]	Turn-up level (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.08	22.13	22.09	23.1	0				
20	QPSK	1	48	22.12	22.21	22.14						
20	QPSK	1	96	22.13	22.27	22.28						
20	QPSK	56	0	22.07	22.25	22.25						
20	QPSK	56	24	22.11	22.30	22.23	23.1	0				
20	QPSK	56	56	22.04	22.28	22.29						
20	QPSK	100	0	22.08	22.28	22.22						
20	16QAM	1	0	22.28	22.13	22.18						
20	16QAM	1	48	22.21	22.30	22.19	23.1	0				
20	16QAM	1	96	22.24	22.21	22.28						
20	16QAM	56	0	22.08	22.07	22.00						
20	16QAM	56	24	22.23	22.12	22.10						
20	16QAM	56	56	22.08	22.08	22.10	23.1	0				
20	16QAM	100	0	22.13	22.07	22.07						
20	16QAM	1	0	21.75	21.71	21.68						
20	16QAM	1	48	21.62	21.74	21.74						
20	16QAM	1	96	21.61	21.84	21.73	22.1	1				
20	16QAM	56	0	21.70	21.11	21.09						
20	16QAM	56	24	21.12	21.12	21.04						
20	16QAM	56	56	21.15	21.12	21.13						
20	16QAM	100	0	21.14	21.05	21.06	22.1	1				
20	25QAM	1	0	19.92	19.11	19.10						
20	25QAM	1	48	19.90	19.01	19.02						
20	25QAM	1	96	19.93	19.00	18.99						
20	25QAM	56	0	19.98	19.20	19.19	19.8	3.3				
20	25QAM	56	24	19.20	19.30	19.19						
20	25QAM	56	56	19.23	19.29	19.28						
20	25QAM	100	0	19.31	19.30	19.21	19.8	3.3				
20	25QAM	100	0	19.31	19.30	19.21						
Channel												
Frequency (MHz)												
15	QPSK	1	0	21.87	22.11	21.98	22.1	0				
15	QPSK	1	37	22.11	22.06	22.10						
15	QPSK	1	74	22.01	22.05	22.12						
15	QPSK	36	0	21.80	22.10	22.14						
15	QPSK	36	18	22.00	22.24	22.11	23.1	0				
15	QPSK	36	36	22.04	22.22	22.17						
15	QPSK	36	54	21.84	22.18	22.17						
15	QPSK	36	72	21.84	22.18	22.17						
15	16QAM	1	0	22.14	22.02	22.16	23.1	0				
15	16QAM	1	37	22.11	22.03	22.04						
15	16QAM	1	74	22.03	22.01	22.02						
15	16QAM	36	0	22.03	22.07	21.92						
15	16QAM	36	18	22.23	22.15	22.00	23.1	0				
15	16QAM	36	36	22.08	22.11	22.06						
15	16QAM	36	54	21.88	22.04	21.98						
15	16QAM	36	72	22.04	22.01	22.00						
15	16QAM	1	0	21.65	21.66	21.57	22.1	1				
15	16QAM	1	37	21.77	21.62	21.62						
15	16QAM	1	74	21.61	21.71	21.74						
15	16QAM	36	0	20.98	21.01	21.05						
15	16QAM	36	18	21.04	21.11	21.06	22.1	1				
15	16QAM	36	36	21.08	21.02	21.01						
15	16QAM	36	54	21.08	21.04	21.03						
15	16QAM	36	72	21.08	21.04	21.05						
15	25QAM	1	0	19.84	19.11	19.05	19.8	3.3				
15	25QAM	1	37	19.80	19.00	19.00						
15	25QAM	1	74	19.80	18.99	18.99						
15	25QAM	56	0	19.85	19.14	19.09	19.8	3.3				
15	25QAM	56	24	19.16	19.24	19.13						
15	25QAM	56	56	19.16	19.24	19.13						
15	25QAM	100	0	19.20	19.26	19.11	19.8	3.3				
15	25QAM	100	0	19.20	19.26	19.11						
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.89	22.07	22.06	22.1	0				
10	QPSK	1	26	21.87	22.19	22.04						
10	QPSK	1	49	22.10	22.20	22.18						
10	QPSK	15	0	22.00	22.24	22.22						
10	QPSK	15	7.5	22.11	22.23	22.22	23.1	0				
10	QPSK	15	15	22.08	22.28	22.28						
10	QPSK	25	0	22.03	22.19	22.20						
10	QPSK	25	12	22.03	22.19	22.20						
10	QPSK	25	12	22.11	22.30	22.19	23.1	0				
10	QPSK	25	24	22.08	22.28	22.28						
10	QPSK	25	36	22.03	22.19	22.20						
10	QPSK	25	48	22.03	22.19	22.20						
10	16QAM	1	0	22.22	22.12	22.16	23.1	0				
10	16QAM	1	26	22.13	22.28	22.15						
10	16QAM	1	49	22.11	22.26	22.13						
10	16QAM	15	0	22.06	22.20	22.17						
10	16QAM	15	7.5	22.08	22.20	22.17	23.1	0				
10	16QAM	15	15	22.16	22.29	22.25						
10	16QAM	25	0	22.06	22.22	22.19						
10	16QAM	25	12	22.06	22.22	22.19						
10	16QAM	25	12	22.18	22.27	22.18	22.1	1				
10	16QAM	25	24	22.14	22.24	22.21						
10	16QAM	25	36	22.04	22.24	22.21						
10	16QAM	25	48	22.04	22.24	22.21						
10	16QAM	1	0	21.67	21.58	21.60	22.1	1				
10	16QAM	1	26	21.72	21.66	21.66						
10	16QAM	1	49	21.68	21.71	21.71						
10	16QAM	25	0	21.08	21.01	21.00						
10	16QAM	25	12	21.08	21.08	21.01	22.1	1				
10	16QAM	25	24	21.14	21.08	21.05						
10	16QAM	25	36	21.09	21.05	21.00						
10	16QAM	25	48	21.09	21.05	21.00						
10	25QAM	1	0	19.86	19.00	18.96	19.8	3.3				
10	25QAM	1	26	19.91	19.00	18.95						
10	25QAM	1	49	19.91	19.00	18.95						
10	25QAM	25	0	19.18	19.22	19.19	19.8	3.3				
10	25QAM	25	12	19.12	19.28	19.15						
10	25QAM	25	24	19.08	19.28	19.15						
10	25QAM	50	0	19.17	19.24	19.15	19.8	3.3				
10	25QAM	50	0	19.17	19.24	19.15						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.00	22.08	22.00	22.1	0				
5	QPSK	1	12	22.00	22.08	22.03						
5	QPSK	1	24	22.12	22.30	22.17						
5	QPSK	12	0	22.05	22.28	22.08						
5	QPSK	12	12	22.18	22.27	22.21	23.1	0				
5	QPSK	12	24	22.09	22.31	22.21						
5	QPSK	12	36	22.05	22.28	22.08						
5	QPSK	12	48	22.12	22.18	22.11						
5	16QAM	1	0	22.12	22.18	22.11	23.1	0				
5	16QAM	1	12	22.12	22.18	22.05						
5	16QAM	1	24	22.10	22.18	22.21						
5	16QAM	12	0	22.14	22.03	21.88						
5	16QAM	12	12	22.08	22.07	22.00	22.1	1				
5	16QAM	12	24	22.08	22.07	22.00						
5	16QAM	12	36	22.08	22.07	22.00						
5	16QAM	12	48	22.08	22.07	22.00						
5	16QAM	25	0	21.75	21.59	21.63	22.1	1				
5	16QAM	25	12	21.78	21.67	21.64						
5	16QAM	25	24	21.78	21.72	21.72						
5	16QAM	25	36	21.70	21.60	21.58						
5	16QAM	12	7	20.99	21.10	20.99	22.1	1				
5	16QAM	12	19	21.03	20.90	21.04						
5	16QAM	25	0	21.13	21.03	21.03						
5	25QAM	1	0	19.88	19.03	18.92						
5	25QAM	1	12	19.85	19.00	18.90	19.8	3.3				
5	25QAM	1	24	19.85	19.00	18.90						
5	25QAM	25	0	19.22	19.25	19.18						
5	25QAM	25	12	19.20	19.24	19.07	19.8	3.3				
5	25QAM	25	24	19.20	19.24	19.07						
5	25QAM	12	13	19.28	19.21	19.00						



Reduced power for Sensor on-LAT

Band	WCDMA II			Time-up Limit (min)	WCDMA IV			Time-up Limit (min)
	882.2	945.0	959.8		1172	1410	1515	
TX Channel	8862	9490	9598		1187	1428	1535	
Frequency (MHz)	932.4	1165	1207.6		1712.4	1722.6	1732.8	
SCPP Rel 8	18.63	18.68	18.66	20.30	17.36	17.36	17.36	21.00
SCPP Rel 8G	RNC 12.30ms	18.66	18.75	19.74	20.30	20.32	20.44	20.40
SCPP Rel 8	WCDMA Subnet 1	18.73	18.81	18.87	19.30	19.32	19.35	19.44
SCPP Rel 8	WCDMA Subnet 2	18.74	18.80	18.87	19.30	19.40	19.50	19.42
SCPP Rel 8	WCDMA Subnet 3	18.21	18.31	18.13	18.80	18.82	19.03	18.93
SCPP Rel 8	WCDMA Subnet 4	18.22	18.26	18.16	18.80	18.89	19.01	18.92
SCPP Rel 8	DC-WCDMA Subnet 1	18.65	18.78	18.57	19.30	19.17	19.35	19.27
SCPP Rel 8	DC-WCDMA Subnet 2	18.63	18.72	18.51	19.30	19.20	19.37	19.20
SCPP Rel 8	DC-WCDMA Subnet 3	18.21	18.24	18.02	18.80	18.79	18.91	18.84
SCPP Rel 8	DC-WCDMA Subnet 4	18.00	18.12	18.08	18.80	18.77	18.89	18.82
SCPP Rel 8	HSPA Subnet 1	18.62	18.67	18.49	19.30	19.20	19.38	19.34
SCPP Rel 8	HSPA Subnet 2	18.74	18.80	18.70	17.30	17.50	17.67	17.61
SCPP Rel 8	HSPA Subnet 3	18.72	18.80	18.66	16.30	16.41	16.58	16.45
SCPP Rel 8	HSPA Subnet 4	18.49	18.62	18.49	17.30	17.38	17.58	17.42
SCPP Rel 8	HSPA Subnet 5	18.70	18.80	18.60	18.30	18.32	18.52	18.50
SCPP Rel 7	HSPA+ (HSPA) Subnet 1	18.72	18.66	18.75	17.40	17.52	17.41	18.80

Band	GSM 850			Time-up Limit (min)
	26	800	1175	
TX Channel				
Frequency (MHz)	18.82	18.74	18.84	
SC1 SCSS	20.11	20.10	20.12	21.20
SC1 SCSS	20.10	20.14	20.11	21.20
SC2 SCSS (FDD)	20.08	20.12	20.09	21.20
SC3 SCSS (FDD)	20.08	20.11	20.08	21.20
RTAP 113.60ms	20.05	20.10	20.08	21.20
RTAP 100ms	20.04	20.08	20.06	21.20



Band 2 (1900MHz Band)									
Part 24E									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq.	Power Ch / Freq.	Power Ch / Freq.	Turn-on time (s)	APR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.84	19.84	19.88	21	0	
20	QPSK	1	40	19.85	19.85	19.91			
20	QPSK	1	96	19.90	19.89	19.95			
20	QPSK	50	0	19.84	19.84	19.79			
20	QPSK	50	24	19.88	19.88	19.93	21	0	
20	QPSK	50	50	19.88	19.82	19.87			
20	QPSK	100	0	19.88	19.82	19.85			
20	16QAM	1	0	19.88	19.84	19.90			
20	16QAM	1	40	19.90	19.89	19.92	21	0	
20	16QAM	1	96	19.78	19.85	19.76			
20	16QAM	50	0	19.83	19.83	19.80			
20	16QAM	50	24	19.94	19.92	19.94	21	0	
20	16QAM	50	50	19.88	19.88	19.88			
20	16QAM	100	0	19.88	19.77	19.86			
20	16QAM	1	0	19.92	19.88	19.94	21	0	
20	16QAM	1	40	19.89	19.83	19.90			
20	16QAM	1	96	19.91	19.87	19.92			
20	16QAM	50	0	19.88	19.87	19.85			
20	16QAM	50	24	19.94	19.92	19.93	21	0	
20	16QAM	50	50	19.90	19.91	19.91			
20	16QAM	100	0	19.94	19.82	19.92			
20	25QAM	1	0	19.92	19.89	19.92			
20	25QAM	1	40	19.98	19.96	19.20	19.8	1.2	
20	25QAM	1	96	19.85	19.85	19.85			
20	25QAM	50	24	19.88	19.08	19.10	19.8	1.2	
20	25QAM	50	50	19.07	19.14	19.04			
20	25QAM	100	0	19.17	19.14	19.04			
Channel									
Frequency (MHz)									
18	QPSK	1	0	19.95	19.89	19.82			
18	QPSK	1	37	19.89	19.83	19.84	21	0	
18	QPSK	1	74	19.84	19.77	19.82			
18	QPSK	36	0	19.69	19.72	19.75			
18	QPSK	36	20	19.65	19.67	19.62	21	0	
18	QPSK	36	36	19.69	19.64	19.65			
18	QPSK	75	0	19.67	19.70	19.63			
18	16QAM	1	0	19.85	19.74	19.73			
18	16QAM	1	37	19.67	19.68	19.65	21	0	
18	16QAM	1	74	19.78	19.80	19.71			
18	16QAM	36	0	19.69	19.67	19.60			
18	16QAM	36	20	19.61	19.70	19.64	21	0	
18	16QAM	36	36	19.62	19.67	19.67			
18	16QAM	75	0	19.75	19.63	19.68			
18	16QAM	1	0	19.66	19.77	19.81			
18	16QAM	1	37	19.62	19.62	19.60	21	0	
18	16QAM	1	74	19.82	19.81	19.71			
18	16QAM	36	0	19.74	19.80	19.88			
18	16QAM	36	20	19.68	19.67	19.68	21	0	
18	16QAM	36	36	19.70	19.71	19.70			
18	16QAM	75	0	19.84	19.83	19.86			
18	25QAM	1	0	19.20	19.08	19.12	19.8	1.2	
18	25QAM	1	37	19.87	19.27	19.87			
18	25QAM	1	74	19.81	19.84	19.86			
18	25QAM	36	0	19.84	19.89	19.89			
18	25QAM	36	20	19.89	19.14	19.09	19.8	1.2	
18	25QAM	36	36	19.89	19.89	19.89			
18	25QAM	75	0	19.11	19.19	19.09			
Channel									
Frequency (MHz)									
10	QPSK	1	0	19.87	19.84	19.85			
10	QPSK	1	40	19.62	19.78	19.78	21	0	
10	QPSK	25	0	19.69	19.72	19.71			
10	QPSK	25	25	19.69	19.68	19.68	21	0	
10	QPSK	25	25	19.69	19.63	19.68			
10	QPSK	50	0	19.80	19.87	19.84			
10	QPSK	1	0	19.83	19.82	19.84			
10	16QAM	1	0	19.80	19.81	19.81	21	0	
10	16QAM	1	40	19.84	19.81	19.82			
10	16QAM	25	0	19.77	19.74	19.70			
10	16QAM	25	25	19.78	19.76	19.76	21	0	
10	16QAM	25	25	19.79	19.69	19.67			
10	16QAM	50	0	19.84	19.80	19.79			
10	16QAM	1	0	19.74	19.84	19.89	21	0	
10	16QAM	1	40	19.74	19.89	19.84			
10	16QAM	25	0	19.75	19.83	19.76			
10	16QAM	25	12	19.78	19.82	19.84	21	0	
10	16QAM	25	25	19.89	19.88	19.74			
10	16QAM	50	0	19.85	19.73	19.78			
10	25QAM	1	0	19.09	19.05	19.26			
10	25QAM	1	40	19.83	19.83	19.86	19.8	1.2	
10	25QAM	1	40	19.86	19.11	19.25			
10	25QAM	25	0	19.80	19.86	19.88			
10	25QAM	25	12	19.81	19.89	19.12	19.8	1.2	
10	25QAM	25	25	19.03	19.07	19.84			
10	25QAM	50	0	19.10	19.07	19.86			
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.85	19.89	19.86			
5	QPSK	1	12	19.68	19.88	19.86	21	0	
5	QPSK	1	24	19.68	19.81	19.83			
5	QPSK	12	0	19.69	19.72	19.75			
5	QPSK	12	7	19.90	19.76	19.69			
5	QPSK	12	13	19.72	19.72	19.81	21	0	
5	QPSK	25	0	19.90	19.70	19.87			
5	16QAM	1	12	19.81	19.79	19.72			
5	16QAM	1	12	19.76	19.81	19.81	21	0	
5	16QAM	1	24	19.71	19.71	19.69			
5	16QAM	12	7	19.89	19.87	19.89			
5	16QAM	12	13	19.93	19.80	19.84	21	0	
5	16QAM	25	0	19.77	19.81	19.72			
5	16QAM	1	12	19.76	19.87	19.86			
5	16QAM	1	12	19.87	19.87	19.87	21	0	
5	16QAM	1	24	19.80	19.90	19.86			
5	16QAM	12	0	19.89	19.89	19.89			
5	16QAM	12	7	19.89	19.87	19.80	21	0	
5	16QAM	12	13	19.92	19.86	19.72			
5	16QAM	25	0	19.72	19.70	19.81			
5	25QAM	1	12	19.82	19.75	19.77			
5	25QAM	1	12	19.13	19.25	19.27	19.8	1.2	
5	25QAM	1	24	19.79	19.52	19.09			
5	25QAM	12	0	19.88	19.86	19.80			
5	25QAM	12	7	19.03	19.89	19.89	19.8	1.2	
5	25QAM	12	13	19.89	19.04	19.89			
5	25QAM	25	0	19.17	19.06	19.09			
Channel									
Frequency (MHz)									
3	QPSK	1	0	19.80	19.67	19.76			
3	QPSK	1	8	19.77	19.62	19.63	21	0	
3	QPSK	1	16	19.60	19.62	19.63			
3	QPSK	8	0	19.77	19.84	19.66			
3	QPSK	8	4	19.75	19.70	19.87	21	0	
3	QPSK	8	7	19.65	19.69	19.81			
3	16QAM	1	0	19.80	19.84	19.86			
3	16QAM	1	0	19.73	19.91	19.93	21	0	
3	16QAM	1	8	19.83	19.67	19.88			
3	16QAM	1	16	19.76	19.86	19.86			
3	16QAM	8	0	19.62	19.86	19.88	21	0	
3	16QAM	8	4	19.78	19.79	19.86			
3	16QAM	8	7	19.90	19.73	19.85			
3	16QAM	1	0	19.71	19.82	19.85			
3	16QAM	1	0	19.67	19.69	19.86			
3	16QAM	1	8	19.79	19.58	19.56	21	0	
3	16QAM	1	16	19.69	19.76	19.84			
3	16QAM	8	0	19.65	19.79	19.82			
3	16QAM	8	4	19.86	19.67	19.85	21	0	
3	16QAM	8	7	19.65	19.69	19.81			
3	16QAM	15	0	19.73	19.70	19.77			
3	25QAM	1	0	19.19	19.56	19.57			
3	25QAM	1	8	19.85	19.19	19.82	19.8	1.2	
3	25QAM	1	16	19.87	19.76	19.86			
3	25QAM	1	8	19.88	19.77	19.85			
3	25QAM	8	4	19.78	19.03	19.86	19.8	1.2	
3	25QAM	8	7	19.11	19.11	19.87			
3	25QAM	15	0	19.11	19.02	19.85			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	19.78	19.68	19.81			
1.4	QPSK	1	0	19.83	19.86	19.86	21	0	
1.4	QPSK	1	5	19.81	19.85	19.86			
1.4	QPSK	3	0	19.71	19.72	19.82			
1.4	QPSK	3	1	19.83	19.83	19.83			
1.4	QPSK	3	1	19.82	19.75	19.80	21	0	
1.4	QPSK	6	0	19.77	19.78	19.86			
1.4	QPSK	6	0	19.77	19.80	19.81			
1.4	QPSK	3	1	19.83	19.83	19.83			
1.4	16QAM	1	0	19.81	19.81	19.81	21	0	
1.4	16QAM	1	3	19.92	19.82	19.73			
1.4	16QAM	1	3	19.71	19.67	19.78			
1.4	16QAM	1	6	19.71	19.67	19.78	21	0	
1.4	16QAM	1	6	19.71	19.67	19.78			
1.4	16QAM	1	9	19.89	19.69	19.74			
1.4	16QAM	3	0	19.67	19.92	19.87			
1.4	16QAM	3	0	19.67	19.92	19.87	21	0	
1.4	16QAM	3	0	19.67	19.90	19.79			
1.4	16QAM	1	3	19.86	19.78	19.77			
1.4	16QAM	1	3	19.79	19.63	19.71			
1.4	16QAM	1	6	19.85	19.65	19.72			
1.4	16QAM	1	6	19.84	19.77	19.77	21	0	
1.4	16QAM	1	9	19.69	19.7				

Band 25 (900MHz Band)											
Part 24E											
BW (MHz)	Modulation	RB Size	RB Offset	Power Level (dBm)	Power Level (dBm)	Power Level (dBm)	Turn-on Time (s)	MFR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	19.93	20.01	19.98					
20	QPSK	1	49	19.95	20.05	19.97	21	0			
20	QPSK	1	99	19.94	19.97	19.97					
20	QPSK	50	0	19.95	19.97	19.98					
20	QPSK	50	24	19.93	20.02	19.94					
20	QPSK	50	50	19.88	19.93	19.93	21	0			
20	QPSK	100	0	19.95	19.97	19.97					
20	16QAM	1	0	20.01	19.94	19.90					
20	16QAM	1	49	19.96	19.97	19.95	21	0			
20	16QAM	1	99	19.90	19.92	19.97					
20	16QAM	50	0	19.78	19.88	19.88					
20	16QAM	50	24	19.85	19.81	19.78	21	0			
20	16QAM	50	50	19.73	19.83	19.82					
20	16QAM	100	0	19.89	19.85	19.78					
20	16QAM	1	0	19.95	19.94	19.78					
20	16QAM	1	49	19.93	19.98	19.94	21	0			
20	16QAM	1	99	19.84	19.95	19.93					
20	16QAM	50	0	19.80	19.88	19.88					
20	16QAM	50	24	19.70	19.85	19.82	21	0			
20	16QAM	50	50	19.79	19.85	19.82					
20	16QAM	100	0	19.93	19.92	19.89					
20	25QAM	1	0	19.84	19.93	19.94					
20	25QAM	1	49	19.12	19.08	19.20	19.8	1.2			
20	25QAM	1	99	19.09	19.07	19.09					
20	25QAM	50	0	19.84	19.92	19.93					
20	25QAM	50	24	19.08	19.13	19.08	19.8	1.2			
20	25QAM	50	50	19.12	19.02	19.15					
20	25QAM	100	0	19.87	19.98	19.99					
Channel											
Frequency (MHz)											
15	QPSK	1	0	19.72	19.88	19.92					
15	QPSK	1	97	19.85	19.81	19.81	21	0			
15	QPSK	1	14	19.62	19.72	19.72					
15	QPSK	36	0	19.77	19.82	19.82					
15	QPSK	36	20	19.77	19.79	19.89	21	0			
15	QPSK	36	36	19.80	19.77	19.80	19.72				
15	QPSK	75	0	19.77	19.87	19.87					
15	16QAM	1	0	20.00	19.80	19.84					
15	16QAM	1	97	19.84	19.79	19.82	21	0			
15	16QAM	1	14	19.67	19.78	19.83					
15	16QAM	36	0	19.82	19.79	19.84					
15	16QAM	36	20	19.87	19.84	19.87	21	0			
15	16QAM	36	36	19.84	19.82	19.78					
15	16QAM	75	0	19.89	19.80	19.80					
15	16QAM	1	0	19.70	19.70	19.66					
15	16QAM	1	97	19.76	19.68	19.78	21	0			
15	16QAM	1	14	19.64	19.72	19.78					
15	16QAM	36	0	19.73	19.84	19.72					
15	16QAM	36	20	19.89	19.72	19.88	21	0			
15	16QAM	36	36	19.87	19.82	19.78					
15	16QAM	75	0	19.89	19.80	19.80					
15	16QAM	1	0	19.59	19.69	19.69					
15	25QAM	1	0	19.28	19.88	19.87					
15	25QAM	1	97	19.61	19.65	19.62	19.8	1.2			
15	25QAM	1	14	19.60	19.60	19.60					
15	25QAM	36	0	19.78	19.85	19.72					
15	25QAM	36	20	19.12	19.01	19.36	19.8	1.2			
15	25QAM	36	36	19.12	19.02	19.08					
15	25QAM	75	0	19.87	19.85	19.13					
Channel											
Frequency (MHz)											
10	QPSK	1	0	19.84	19.89	19.87					
10	QPSK	1	25	19.93	19.90	19.78	21	0			
10	QPSK	1	49	19.63	19.82	19.68					
10	QPSK	25	0	19.89	19.93	19.90					
10	QPSK	25	25	19.74	19.84	19.78	21	0			
10	QPSK	25	25	19.85	19.84	19.78					
10	QPSK	50	0	19.80	19.80	19.77					
10	16QAM	1	0	20.03	19.79	19.79					
10	16QAM	1	25	19.80	19.80	19.71	21	0			
10	16QAM	1	49	19.65	19.72	19.80					
10	16QAM	25	0	19.63	19.79	19.78					
10	16QAM	25	25	19.89	19.88	19.78	21	0			
10	16QAM	25	25	19.89	19.81	19.71					
10	16QAM	50	0	19.62	19.64	19.66					
10	16QAM	1	0	19.65	19.67	19.67	21	0			
10	16QAM	1	25	19.60	19.76	19.68					
10	16QAM	1	49	19.68	19.74	19.82					
10	16QAM	25	0	19.79	19.79	19.73					
10	16QAM	25	25	19.74	19.84	19.78	21	0			
10	16QAM	50	0	19.66	19.62	19.66					
10	25QAM	1	0	19.29	19.82	19.88					
10	25QAM	1	25	19.12	19.11	19.06	19.8	1.2			
10	25QAM	1	49	19.64	19.80	19.82					
10	25QAM	25	0	19.82	19.80	19.84					
10	25QAM	25	25	19.07	19.12	19.00	19.8	1.2			
10	25QAM	25	25	19.09	19.82	19.82					
10	25QAM	50	0	19.77	19.87	19.81					
Channel											
Frequency (MHz)											
5	QPSK	1	0	19.81	19.83	19.87					
5	QPSK	1	12	19.81	20.05	19.72	21	0			
5	QPSK	1	24	19.82	19.85	19.75					
5	QPSK	12	0	19.67	19.77	19.85					
5	QPSK	12	7	19.85	20.03	19.80	21	0			
5	QPSK	12	13	19.72	19.71	19.68					
5	QPSK	25	0	19.63	19.83	19.84					
5	16QAM	1	0	19.80	19.82	19.77					
5	16QAM	1	12	19.79	19.84	19.87	21	0			
5	16QAM	1	24	19.65	19.80	19.88					
5	16QAM	12	0	19.62	19.88	19.85					
5	16QAM	12	7	19.75	19.81	19.75	21	0			
5	16QAM	12	13	19.71	19.62	19.73					
5	16QAM	25	0	19.62	19.64	19.57					
5	16QAM	1	0	19.60	19.74	19.78					
5	16QAM	1	12	19.61	19.89	19.89	21	0			
5	16QAM	1	24	19.79	19.75	19.68					
5	16QAM	12	0	19.69	19.83	19.85					
5	16QAM	12	7	19.82	19.89	19.87	21	0			
5	16QAM	12	13	19.69	19.75	19.69					
5	16QAM	25	0	19.71	19.84	19.79					
5	25QAM	1	0	19.19	19.02	19.05					
5	25QAM	1	12	19.64	19.09	19.09	19.8	1.2			
5	25QAM	1	24	19.13	19.07	19.02					
5	25QAM	12	0	19.69	19.84	19.87					
5	25QAM	12	7	19.02	19.88	19.84					
5	25QAM	12	13	19.06	19.88	19.81	19.8	1.2			
5	25QAM	25	0	19.82	19.89	19.14					
Channel											
Frequency (MHz)											
3	QPSK	1	0	19.90	19.87	19.98					
3	QPSK	1	8	19.72	20.00	19.79	21	0			
3	QPSK	1	14	19.76	19.73	19.85					
3	QPSK	8	0	19.68	19.86	19.82					
3	QPSK	8	4	19.72	19.84	19.89	21	0			
3	QPSK	8	7	19.67	19.74	19.78					
3	QPSK	15	0	19.71	19.79	19.75					
3	16QAM	1	0	19.84	19.83	19.65					
3	16QAM	1	8	19.68	19.86	19.83	21	0			
3	16QAM	1	14	19.91	19.84	19.66					
3	16QAM	8	0	19.78	19.82	19.78					
3	16QAM	8	4	19.74	19.64	19.65	21	0			
3	16QAM	8	7	19.67	19.75	19.82					
3	16QAM	15	0	19.60	19.68	19.63					
3	16QAM	1	0	19.65	19.79	19.83					
3	16QAM	1	8	19.74	19.80	19.73	21	0			
3	16QAM	1	14	19.81	19.88	19.83					
3	16QAM	8	0	19.65	19.83	19.85					
3	16QAM	8	4	19.72	19.78	19.73	21	0			
3	16QAM	8	7	19.62	19.64	19.78					
3	16QAM	15	0	19.64	19.66	19.79					
3	25QAM	1	0	19.01	19.83	19.73					
3	25QAM	1	8	19.05	19.05	19.12	19.8	1.2			
3	25QAM	1	14	19.04	19.02	19.14					
3	25QAM	8	0	19.69	19.86	19.76					
3	25QAM	8	4	19.01	19.82	19.78	19.8	1.2			
3	25QAM	8	7	19.03	19.02	19.09					
3	25QAM	15	0	19.84	19.05	19.08					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	19.89	19.85	19.78					
1.4	QPSK	1	3	19.90	19.83	19.88					
1.4	QPSK	1	6	19.75	19.80	19.88					
1.4	QPSK	3	0	19.70	19.9						



Intra Band UL CA Power for UAT

CA_41C											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB Offset	RB Size	RB Offset					
39730	39686	QPSK	1	96	0	0	1	0	Full	23.38	23.80
39730	39686	QPSK	1	96	0	0	1	0	Full	23.22	23.80
40180	40080	QPSK	1	96	0	0	1	0	Full	23.38	23.80
40630	40430	QPSK	1	96	0	0	1	0	Full	23.20	23.80
41030	40807	QPSK	1	96	0	0	1	0	Full	23.10	23.80
41430	41030	QPSK	1	96	0	0	1	0	Full	23.14	23.80
39730	39686	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.14	14.00
39730	39686	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.10	14.00
40180	40080	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.22	14.00
40630	40430	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.14	14.00
41030	40807	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.10	14.00
41430	41030	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.22	14.00
39730	39686	QPSK	96	0	0	0	1	0	Holdup	16.10	16.80
40180	40080	QPSK	96	0	0	0	1	0	Holdup	16.34	16.80
40630	40430	QPSK	96	0	0	0	1	0	Holdup	16.26	16.80
41030	40807	QPSK	96	0	0	0	1	0	Holdup	16.18	16.80
41430	41030	QPSK	96	0	0	0	1	0	Holdup	16.30	16.80

CA_41C(HPR)											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB Offset	RB Size	RB Offset					
39730	39686	QPSK	1	96	0	0	1	0	Full	23.06	23.80
39730	39686	QPSK	1	96	0	0	1	0	Full	23.08	23.80
40180	40080	QPSK	1	96	0	0	1	0	Full	23.20	23.80
40630	40430	QPSK	1	96	0	0	1	0	Full	23.20	23.80
41030	40807	QPSK	1	96	0	0	1	0	Full	23.22	23.80
41430	41030	QPSK	1	96	0	0	1	0	Full	23.19	23.80
39730	39686	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.00	14.00
39730	39686	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.01	14.00
40180	40080	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.09	14.00
40630	40430	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.07	14.00
41030	40807	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.09	14.00
41430	41030	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.06	14.00
39730	39686	QPSK	96	0	0	0	1	0	Holdup	17.70	18.40
40180	40080	QPSK	96	0	0	0	1	0	Holdup	17.79	18.40
40630	40430	QPSK	96	0	0	0	1	0	Holdup	17.68	18.40
41030	40807	QPSK	96	0	0	0	1	0	Holdup	17.60	18.40
41430	41030	QPSK	96	0	0	0	1	0	Holdup	17.70	18.40

CA_41C											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB Offset	RB Size	RB Offset					
39730	39686	QPSK	1	0	0	0	1	0	Full	23.50	24.80
39730	39686	QPSK	1	0	0	0	1	0	Full	23.49	24.80
40180	40080	QPSK	1	0	0	0	1	0	Full	23.30	24.80
40630	40430	QPSK	1	0	0	0	1	0	Full	23.20	24.80
41030	40807	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.34	16.50
41430	41030	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.30	16.50
39730	39686	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.31	16.50
40180	40080	QPSK	96	0	0	0	1	0	Reduced Power Level 1/20	13.41	16.50
40630	40430	QPSK	96	0	0	0	1	0	Holdup	16.50	20.50
41030	40807	QPSK	96	0	0	0	1	0	Holdup	16.40	20.50
41430	41030	QPSK	96	0	0	0	1	0	Holdup	16.50	20.50
41430	41030	QPSK	96	0	0	0	1	0	Holdup	16.50	20.50



Intra Band UL CA Power for LAT

CA_41C											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39790	39988	QPSK	1	99	0	0	1	0	Full	24.07	24.80
39750	39948	QPSK	1	99	0	0	1	0	Full	23.99	24.80
40185	40383	QPSK	1	99	0	0	1	0	Full	24.11	24.80
40620	40422	QPSK	1	99	0	0	1	0	Full	24.10	24.80
41055	40857	QPSK	1	99	0	0	1	0	Full	24.05	24.80
41490	41292	QPSK	1	99	0	0	1	0	Full	24.08	24.80
39790	39988	QPSK	50	24	0	0	1	0	Hotspot on	19.31	20.10
39750	39948	QPSK	50	24	0	0	1	0	Hotspot on	19.27	20.10
40185	40383	QPSK	50	24	0	0	1	0	Hotspot on	19.33	20.10
40620	40422	QPSK	50	24	0	0	1	0	Hotspot on	19.30	20.10
41055	40857	QPSK	50	24	0	0	1	0	Hotspot on	19.25	20.10
41490	41292	QPSK	50	24	0	0	1	0	Hotspot on	19.30	20.10

CA_41C(HPUE)											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39790	39988	QPSK	1	99	0	0	1	0	Full	26.08	26.80
39750	39948	QPSK	1	99	0	0	1	0	Full	26.02	26.80
40185	40383	QPSK	1	99	0	0	1	0	Full	26.15	26.80
40620	40422	QPSK	1	99	0	0	1	0	Full	26.08	26.80
41055	40857	QPSK	1	99	0	0	1	0	Full	25.96	26.80
41490	41292	QPSK	1	99	0	0	1	0	Full	26.11	26.80
39790	39988	QPSK	50	24	0	0	1	0	Hotspot on	21.25	21.90
39750	39948	QPSK	50	24	0	0	1	0	Hotspot on	21.20	21.90
40185	40383	QPSK	50	24	0	0	1	0	Hotspot on	21.30	21.90
40620	40422	QPSK	50	24	0	0	1	0	Hotspot on	21.29	21.90
41055	40857	QPSK	50	24	0	0	1	0	Hotspot on	21.19	21.90
41490	41292	QPSK	50	24	0	0	1	0	Hotspot on	21.28	21.90



Inter Band UL CA Power

PCC:Ant2 SCC:Ant1							Tune up Power (dBm)					
CA 2A-4A												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
18700	20050	QPSK	1	0	1	0	21.98	14.88	22.85	24	16.8	24.8
			1	49	1	49	22.00	15.99	22.86	24	16.8	24.8
			1	99	1	99	21.88	16.01	22.83	24	16.8	24.8
			50	0	50	0	21.16	17.98	22.81	23.1	19.8	24.8
			50	24	50	24	21.33	18.01	22.82	23.1	19.8	24.8
			50	50	50	50	21.87	17.85	22.85	23.1	19.8	24.8
18900	20175	QPSK	100	0	100	0	21.53	18.02	22.89	23.1	19.8	24.8
			1	0	1	0	22.02	14.86	22.86	24	16.8	24.8
			1	49	1	49	22.04	16.01	22.91	24	16.8	24.8
			1	99	1	99	22.03	16.09	22.83	24	16.8	24.8
			50	0	50	0	21.21	18.05	22.88	23.1	19.8	24.8
			50	24	50	24	21.46	18.09	22.87	23.1	19.8	24.8
19100	20300	QPSK	50	50	50	50	22.01	17.89	22.90	23.1	19.8	24.8
			100	0	100	0	21.37	17.82	22.87	23.1	19.8	24.8
			1	0	1	0	21.94	14.82	22.88	24	16.8	24.8
			1	49	1	49	22.03	15.86	22.86	24	16.8	24.8
			1	99	1	99	21.91	15.98	22.81	24	16.8	24.8
			50	0	50	0	21.19	17.92	22.86	23.1	19.8	24.8
19100	20300	QPSK	50	24	50	24	21.31	18.06	22.84	23.1	19.8	24.8
			50	50	50	50	22.07	17.74	22.83	23.1	19.8	24.8
			100	0	100	0	21.29	17.67	22.81	23.1	19.8	24.8

PCC:Ant1		SCC:Ant2		Tune up Power (dBm)									
CA_4A-2A													
Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	18700	QPSK	1	0	1	0	21.74	16.75	22.77	23.70	18.20	24.8	
			1	49	1	49	21.80	16.45	22.81	23.70	18.20	24.8	
			1	99	1	99	21.88	16.44	22.90	23.70	18.20	24.8	
			50	0	50	0	21.11	19.03	22.96	23.10	21.00	25.2	
			50	24	50	24	20.50	19.06	22.88	22.50	20.90	24.8	
			50	50	50	50	20.53	19.02	22.81	22.50	20.90	24.8	
20175	18900	QPSK	100	0	100	0	20.47	18.95	22.89	22.50	20.90	24.8	
			1	0	1	0	21.71	16.82	22.90	23.70	18.20	24.8	
			1	49	1	49	21.83	16.38	22.88	23.70	18.20	24.8	
			1	99	1	99	21.95	16.55	23.01	23.70	18.20	24.8	
			50	0	50	0	21.14	19.05	23.08	23.10	21.00	25.2	
			50	24	50	24	20.61	19.18	22.91	22.50	20.90	24.8	
20300	19100	QPSK	50	50	50	50	20.58	19.11	22.92	22.50	20.90	24.8	
			100	0	100	0	20.55	19.10	22.90	22.50	20.90	24.8	
			1	0	1	0	21.78	16.73	22.83	23.70	18.20	24.8	
			1	49	1	49	21.76	16.48	22.84	23.70	18.20	24.8	
			1	99	1	99	21.93	16.53	22.97	23.70	18.20	24.8	
			50	0	50	0	21.13	19.01	23.05	23.10	21.00	25.2	

PCC:Ant3		SCC:Ant0		Tune up Power (dBm)									
CA_2A-4A													
Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
18700	20050	QPSK	1	0	1	0	22.87	17.60	23.77	23.60	18.60	24.8	
			1	49	1	49	22.87	17.35	23.76	23.60	18.60	24.8	
			1	99	1	99	22.68	17.03	23.55	23.60	18.60	24.8	
			50	0	50	0	22.17	19.50	23.95	22.80	20.50	24.8	
			50	24	50	24	22.27	19.40	23.90	22.80	20.50	24.8	
			50	50	50	50	22.17	19.36	23.89	22.80	20.50	24.8	
18900	20175	QPSK	100	0	100	0	21.98	19.35	23.94	22.80	20.50	24.8	
			1	0	1	0	22.95	17.61	23.88	23.60	18.60	24.8	
			1	49	1	49	22.88	17.43	23.78	23.60	18.60	24.8	
			1	99	1	99	22.78	17.11	23.67	23.60	18.60	24.8	
			50	0	50	0	22.27	19.59	24.01	22.80	20.50	24.8	
			50	24	50	24	22.32	19.47	23.98	22.80	20.50	24.8	
19100	20300	QPSK	50	50	50	50	22.28	19.44	23.99	22.80	20.50	24.8	
			100	0	100	0	22.09	19.38	24.08	22.80	20.50	24.8	
			1	0	1	0	22.85	17.47	23.83	23.60	18.60	24.8	
			1	49	1	49	22.81	17.31	23.70	23.60	18.60	24.8	
			1	99	1	99	22.73	17.01	23.58	23.60	18.60	24.8	
			50	0	50	0	22.22	19.50	23.90	22.80	20.50	24.8	
19100	20300	QPSK	50	24	50	24	22.32	19.45	23.98	22.80	20.50	24.8	
			50	50	50	50	22.14	19.38	23.99	22.80	20.50	24.8	
			100	0	100	0	21.96	19.27	23.93	22.80	20.50	24.8	

PCC:Ant0		SCC:Ant3		Tune up Power (dBm)									
CA_4A-2A													
Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	18700	QPSK	1	0	1	0	22.79	17.63	23.84	23.50	19.00	24.8	
			1	49	1	49	22.73	17.33	23.85	23.50	19.00	24.8	
			1	99	1	99	22.85	17.46	23.81	23.50	19.00	24.8	
			50	0	50	0	21.92	19.64	23.94	22.70	20.70	24.8	
			50	24	50	24	21.86	19.50	23.83	22.70	20.70	24.8	
			50	50	50	50	21.87	19.67	23.88	22.70	20.70	24.8	
20175	18900	QPSK	100	0	100	0	22.05	19.58	23.91	22.70	20.70	24.8	
			1	0	1	0	22.94	17.68	23.92	23.50	19.00	24.8	
			1	49	1	49	22.87	17.44	23.94	23.50	19.00	24.8	
			1	99	1	99	22.91	17.58	23.87	23.50	19.00	24.8	
			50	0	50	0	21.92	19.70	24.03	22.70	20.70	24.8	
			50	24	50	24	21.88	19.56	23.97	22.70	20.70	24.8	
20300	19100	QPSK	50	50	50	50	21.91	19.67	23.94	22.70	20.70	24.8	
			100	0	100	0	22.09	19.59	23.97	22.70	20.70	24.8	
			1	0	1	0	22.88	17.59	23.92	23.50	19.00	24.8	
			1	49	1	49	22.82	17.40	23.93	23.50	19.00	24.8	
			1	99	1	99	22.90	17.58	23.81	23.50	19.00	24.8	
			50	0	50	0	21.79	19.58	23.98	22.70	20.70	24.8	
			50	24	50	24	21.86	19.54	23.89	22.70	20.70	24.8	
			50	50	50	50	21.78	19.54	23.90	22.70	20.70	24.8	
			100	0	100	0	21.99	19.55	23.84	22.70	20.70	24.8	

Tune up Power (dflw)

PCC:Ant2 SCC:Ant1

CA 2A-66A												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
18700	132072	QPSK	1	0	1	0	22.26	16.18	22.88	23.80	17.80	24.8
			1	49	1	49	22.65	15.00	23.00	24.00	17.00	24.8
			1	99	1	99	22.01	16.00	22.94	23.80	17.80	24.8
			50	0	50	0	21.28	18.20	22.95	23.10	19.90	24.8
			50	24	50	24	21.09	18.27	22.87	23.10	19.90	24.8
			50	50	50	50	21.11	18.30	22.92	23.10	19.90	24.8
18900	132322	QPSK	100	0	100	0	21.23	18.04	22.97	23.10	19.90	24.8
			1	0	1	0	22.32	16.28	23.02	23.80	17.80	24.8
			1	49	1	49	22.86	15.11	23.05	24.00	17.00	24.8
			1	99	1	99	22.13	15.89	22.94	23.80	17.80	24.8
			50	0	50	0	21.29	18.22	22.98	23.10	19.90	24.8
			50	24	50	24	21.13	18.42	22.97	23.10	19.90	24.8
19100	132572	QPSK	50	50	50	50	21.21	18.38	22.99	23.10	19.90	24.8
			100	0	100	0	21.37	18.07	23.02	23.10	19.90	24.8
			1	0	1	0	22.29	16.28	22.98	23.80	17.80	24.8
			1	49	1	49	22.64	15.10	22.99	24.00	17.00	24.8
			1	99	1	99	22.06	15.94	22.92	23.80	17.80	24.8
			50	0	50	0	21.27	18.14	22.94	23.10	19.90	24.8
			50	24	50	24	21.03	18.35	22.82	23.10	19.90	24.8
			50	50	50	50	21.13	18.32	22.88	23.10	19.90	24.8
			100	0	100	0	21.25	17.97	23.02	23.10	19.90	24.8

Tune up Power (dflw)

PCC:Ant3 SCC:Ant0

CA 2A-66A												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
18700	132072	QPSK	1	0	1	0	23.00	16.43	24.00	23.90	17.40	24.8
			1	49	1	49	22.87	16.60	23.93	23.90	17.40	24.8
			1	99	1	99	22.90	16.55	23.80	23.90	17.40	24.8
			50	0	50	0	22.21	19.83	24.12	22.80	20.50	24.8
			50	24	50	24	22.19	19.88	24.01	22.80	20.50	24.8
			50	50	50	50	22.18	19.68	24.01	22.80	20.50	24.8
18900	132322	QPSK	100	0	100	0	22.24	19.63	24.04	22.80	20.50	24.8
			1	0	1	0	23.05	16.58	24.06	23.90	17.40	24.8
			1	49	1	49	22.98	16.70	23.98	23.90	17.40	24.8
			1	99	1	99	23.04	16.59	23.91	23.90	17.40	24.8
			50	0	50	0	22.32	19.87	24.19	22.80	20.50	24.8
			50	24	50	24	22.22	19.88	24.11	22.80	20.50	24.8
19100	132572	QPSK	50	50	50	50	22.19	19.81	24.09	22.80	20.50	24.8
			100	0	100	0	22.31	19.70	24.18	22.80	20.50	24.8
			1	0	1	0	22.92	16.53	24.03	23.90	17.40	24.8
			1	49	1	49	22.85	16.55	23.83	23.90	17.40	24.8
			1	99	1	99	23.02	16.44	23.87	23.90	17.40	24.8
			50	0	50	0	22.17	19.83	24.14	22.80	20.50	24.8
19100	132572	QPSK	50	24	50	24	22.19	19.74	24.08	22.80	20.50	24.8
			50	50	50	50	22.10	19.72	24.01	22.80	20.50	24.8
			100	0	100	0	22.18	19.76	24.08	22.80	20.50	24.8

Tune up Power (dflw)

PCC:Ant1 SCC:Ant2

CA_66A-2A												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132072	18700	QPSK	1	0	1	0	21.82	15.98	22.83	23.80	17.80	24.8
			1	49	1	49	21.84	16.13	22.92	23.80	17.80	24.8
			1	99	1	99	21.85	16.01	22.90	23.80	17.80	24.8
			50	0	50	0	21.09	19.19	23.06	22.60	20.80	24.8
			50	24	50	24	21.12	19.03	23.02	22.60	20.80	24.8
			50	50	50	50	21.10	18.93	23.05	22.60	20.80	24.8
			100	0	100	0	21.04	18.88	22.92	22.60	20.80	24.8
			1	0	1	0	21.84	15.95	22.98	23.80	17.80	24.8
			1	49	1	49	21.87	16.14	22.95	23.80	17.80	24.8
			1	99	1	99	21.94	16.09	22.90	23.80	17.80	24.8
132322	18900	QPSK	50	0	50	0	21.09	19.24	23.11	22.60	20.80	24.8
			50	24	50	24	21.21	19.05	23.08	22.60	20.80	24.8
			50	50	50	50	21.16	19.07	23.08	22.60	20.80	24.8
			100	0	100	0	21.15	18.95	22.96	22.60	20.80	24.8
			1	0	1	0	21.89	15.97	22.92	23.80	17.80	24.8
			1	49	1	49	21.76	16.07	22.95	23.80	17.80	24.8
			1	99	1	99	21.91	16.00	22.88	23.80	17.80	24.8
			50	0	50	0	21.08	19.24	22.97	22.60	20.80	24.8
			50	24	50	24	21.15	19.02	22.99	22.60	20.80	24.8
			50	50	50	50	21.07	18.96	23.04	22.60	20.80	24.8
132572	19100	QPSK	100	0	100	0	21.06	18.93	22.96	22.60	20.80	24.8

Tune up Power (dflw)

PCC:Ant0 SCC:Ant3

CA_66A-2A												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132072	18700	QPSK	1	0	1	0	23.24	17.26	24.10	23.80	18.00	24.8
			1	49	1	49	23.25	16.78	23.98	23.80	18.00	24.8
			1	99	1	99	23.19	16.81	24.02	23.80	18.00	24.8
			50	0	50	0	22.18	19.32	24.03	23.00	20.10	24.8
			50	24	50	24	22.12	19.48	24.08	23.00	20.10	24.8
			50	50	50	50	22.19	19.47	24.01	23.00	20.10	24.8
			100	0	100	0	22.19	19.46	24.07	23.00	20.10	24.8
			1	0	1	0	23.34	17.32	24.15	23.80	18.00	24.8
			1	49	1	49	23.33	16.89	24.13	23.80	18.00	24.8
			1	99	1	99	23.19	16.94	24.09	23.80	18.00	24.8
132322	18900	QPSK	50	0	50	0	22.32	19.46	24.12	23.00	20.10	24.8
			50	24	50	24	22.19	19.51	24.09	23.00	20.10	24.8
			50	50	50	50	22.27	19.48	24.05	23.00	20.10	24.8
			100	0	100	0	22.28	19.54	24.11	23.00	20.10	24.8
			1	0	1	0	23.31	17.32	24.14	23.80	18.00	24.8
			1	49	1	49	23.29	16.85	24.09	23.80	18.00	24.8
			1	99	1	99	23.07	16.87	23.99	23.80	18.00	24.8
			50	0	50	0	22.30	19.40	23.99	23.00	20.10	24.8
			50	24	50	24	22.11	19.36	24.05	23.00	20.10	24.8
			50	50	50	50	22.16	19.34	23.90	23.00	20.10	24.8
100	0	100	0	22.19	19.49	24.05	23.00	20.10	24.8			

PCC:Ant2 SCC:Ant0			Tune up Power (dBm)									
CA_2A-12A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
18700	23060	QPSK	1	0	1	0	22.38	17.26	23.58	23.60	18.60	24.8
			1	49	1	25	22.34	17.15	23.52	23.60	18.60	24.8
			1	99	1	49	22.28	17.14	23.48	23.60	18.60	24.8
			50	0	25	0	21.20	18.57	23.26	22.60	20.80	24.8
			50	24	25	12	21.22	18.75	23.43	22.60	20.80	24.8
			50	50	25	25	21.31	18.68	23.37	22.60	20.80	24.8
			100	0	50	0	21.28	18.18	23.16	22.60	20.80	24.8
18900	23095	QPSK	1	0	1	0	22.44	17.32	23.63	23.60	18.60	24.8
			1	49	1	25	22.38	17.23	23.54	23.60	18.60	24.8
			1	99	1	49	22.31	17.17	23.46	23.60	18.60	24.8
			50	0	25	0	21.29	18.72	23.41	22.60	20.80	24.8
			50	24	25	12	21.31	18.88	23.44	22.60	20.80	24.8
			50	50	25	25	21.35	18.78	23.37	22.60	20.80	24.8
			100	0	50	0	21.41	18.22	23.29	22.60	20.80	24.8
19100	23130	QPSK	1	0	1	0	22.40	17.18	23.52	23.60	18.60	24.8
			1	49	1	25	22.35	17.23	23.48	23.60	18.60	24.8
			1	99	1	49	22.20	17.02	23.36	23.60	18.60	24.8
			50	0	25	0	21.20	18.61	23.40	22.60	20.80	24.8
			50	24	25	12	21.25	18.82	23.34	22.60	20.80	24.8
			50	50	25	25	21.34	18.73	23.22	22.60	20.80	24.8
			100	0	50	0	21.38	18.08	23.14	22.60	20.80	24.8

PCC:Ant0		SCC:Ant2		Tune up Power (dBm)									
CA_12A-2A													
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23060	18700	QPSK	1	0	1	0	22.74	15.52	23.34	24.00	17.00	24.8	
			1	25	1	49	22.63	15.55	23.11	24.00	17.00	24.8	
			1	49	1	99	22.64	15.51	23.30	24.00	17.00	24.8	
			25	0	50	0	21.30	18.77	23.37	22.90	20.30	24.8	
			25	12	50	24	21.06	18.56	23.26	22.90	20.30	24.8	
			25	25	50	50	21.08	18.81	23.08	22.90	20.30	24.8	
			50	0	100	0	21.25	18.77	23.15	22.90	20.30	24.8	
23095	18900	QPSK	1	0	1	0	22.76	15.65	23.45	24.00	17.00	24.8	
			1	25	1	49	22.73	15.61	23.23	24.00	17.00	24.8	
			1	49	1	99	22.69	15.56	23.31	24.00	17.00	24.8	
			25	0	50	0	21.43	18.81	23.39	22.90	20.30	24.8	
			25	12	50	24	21.13	18.66	23.31	22.90	20.30	24.8	
			25	25	50	50	21.05	18.90	23.15	22.90	20.30	24.8	
			50	0	100	0	21.26	18.91	23.22	22.90	20.30	24.8	
23130	19100	QPSK	1	0	1	0	22.72	15.53	23.38	24.00	17.00	24.8	
			1	25	1	49	22.71	15.56	23.09	24.00	17.00	24.8	
			1	49	1	99	22.63	15.45	23.23	24.00	17.00	24.8	
			25	0	50	0	21.28	18.77	23.29	22.90	20.30	24.8	
			25	12	50	24	21.10	18.61	23.23	22.90	20.30	24.8	
			25	25	50	50	21.05	18.84	23.12	22.90	20.30	24.8	
			50	0	100	0	21.12	18.83	23.10	22.90	20.30	24.8	

PCC:Ant3 SCC:Ant1			Tune up Power (dBm)									
CA_2A-12A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
18700	23060	QPSK	1	0	1	0	23.02	16.43	23.87	23.90	17.60	24.8
			1	49	1	25	22.98	16.80	24.07	23.90	17.60	24.8
			1	99	1	49	23.06	16.92	24.01	23.90	17.60	24.8
			50	0	25	0	22.06	19.53	24.10	22.80	20.50	24.8
			50	24	25	12	22.00	19.59	24.06	22.80	20.50	24.8
			50	50	25	25	21.96	19.30	24.00	22.80	20.50	24.8
			100	0	50	0	22.04	19.56	24.11	22.80	20.50	24.8
18900	23095	QPSK	1	0	1	0	23.11	16.58	23.93	23.90	17.60	24.8
			1	49	1	25	22.98	16.88	24.17	23.90	17.60	24.8
			1	99	1	49	23.21	16.92	24.09	23.90	17.60	24.8
			50	0	25	0	22.10	19.58	24.12	22.80	20.50	24.8
			50	24	25	12	22.15	19.62	24.06	22.80	20.50	24.8
			50	50	25	25	22.01	19.44	24.04	22.80	20.50	24.8
			100	0	50	0	22.11	19.64	24.11	22.80	20.50	24.8
19100	23130	QPSK	1	0	1	0	23.05	16.46	23.89	23.90	17.60	24.8
			1	49	1	25	22.90	16.81	24.02	23.90	17.60	24.8
			1	99	1	49	23.17	16.92	24.06	23.90	17.60	24.8
			50	0	25	0	21.98	19.49	24.00	22.80	20.50	24.8
			50	24	25	12	22.14	19.55	23.98	22.80	20.50	24.8
			50	50	25	25	21.86	19.38	23.93	22.80	20.50	24.8
			100	0	50	0	22.07	19.61	24.05	22.80	20.50	24.8

PCC:Ant1		SCC:Ant3		Tune up Power (dBm)									
CA_12A-2A													
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23060	18700	QPSK	1	0	1	0	22.83	17.74	23.71	23.50	19.00	24.8	
			1	25	1	49	22.81	17.34	23.73	23.50	19.00	24.8	
			1	49	1	99	22.82	17.59	23.67	23.50	19.00	24.8	
			25	0	50	0	22.32	19.32	23.99	23.00	20.20	24.8	
			25	12	50	24	22.28	19.35	24.15	23.00	20.20	24.8	
			25	25	50	50	22.18	19.24	24.09	23.00	20.20	24.8	
			50	0	100	0	22.27	19.57	24.14	23.00	20.20	24.8	
23095	18900	QPSK	1	0	1	0	22.93	17.76	23.81	23.50	19.00	24.8	
			1	25	1	49	22.82	17.34	23.79	23.50	19.00	24.8	
			1	49	1	99	22.88	17.66	23.71	23.50	19.00	24.8	
			25	0	50	0	22.36	19.45	24.11	23.00	20.20	24.8	
			25	12	50	24	22.28	19.41	24.18	23.00	20.20	24.8	
			25	25	50	50	22.21	19.38	24.12	23.00	20.20	24.8	
			50	0	100	0	22.32	19.70	24.15	23.00	20.20	24.8	
23130	19100	QPSK	1	0	1	0	22.80	17.74	23.68	23.50	19.00	24.8	
			1	25	1	49	22.77	17.24	23.71	23.50	19.00	24.8	
			1	49	1	99	22.80	17.61	23.62	23.50	19.00	24.8	
			25	0	50	0	22.29	19.33	23.98	23.00	20.20	24.8	
			25	12	50	24	22.18	19.31	24.08	23.00	20.20	24.8	
			25	25	50	50	22.19	19.23	24.05	23.00	20.20	24.8	
			50	0	100	0	22.29	19.68	24.02	23.00	20.20	24.8	

Tune up Power (dBm)

PCC:Ant2		SCC:Ant0		CA 4A-12A									
Combination 20MHz+10MHz (100RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	23060	QPSK	1	0	1	0	22.39	15.76	23.12	23.80	18.00	24.8	
			1	49	1	25	22.37	16.13	23.13	23.80	18.00	24.8	
			1	99	1	49	22.37	16.57	23.08	23.80	18.00	24.8	
			50	0	25	0	21.33	18.92	23.19	22.80	20.50	24.8	
			50	24	25	12	21.33	18.71	23.30	22.80	20.50	24.8	
			50	50	25	25	21.20	18.83	23.16	22.80	20.50	24.8	
20175	23095	QPSK	100	0	50	0	21.17	18.72	23.10	22.80	20.50	24.8	
			1	0	1	0	22.50	15.83	23.12	23.80	18.00	24.8	
			1	49	1	25	22.52	16.23	23.22	23.80	18.00	24.8	
			1	99	1	49	22.44	16.66	23.18	23.80	18.00	24.8	
			50	0	25	0	21.37	19.01	23.23	22.80	20.50	24.8	
			50	24	25	12	21.43	18.86	23.33	22.80	20.50	24.8	
20300	23130	QPSK	50	50	25	25	21.35	18.98	23.31	22.80	20.50	24.8	
			100	0	50	0	21.25	18.79	23.17	22.80	20.50	24.8	
			1	0	1	0	22.46	15.83	23.04	23.80	18.00	24.8	
			1	49	1	25	22.47	16.21	23.22	23.80	18.00	24.8	
			1	99	1	49	22.41	16.59	23.09	23.80	18.00	24.8	
			50	0	25	0	21.34	18.97	23.13	22.80	20.50	24.8	
			50	24	25	12	21.36	18.77	23.19	22.80	20.50	24.8	
			50	50	25	25	21.28	18.91	23.24	22.80	20.50	24.8	
			100	0	50	0	21.13	18.66	23.13	22.80	20.50	24.8	

Tune up Power (dBm)

PCC:Ant3		SCC:Ant1		CA 4A-12A							
Combination 20MHz+10MHz (100RB+50RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20050	23060	QPSK	1	0	1	0	23.05	16.72	24.05	23.90	17.70
			1	49	1	25	23.00	16.70	23.92	23.90	17.70
			1	99	1	49	22.90	16.74	23.92	23.90	17.70
			50	0	25	0	22.28	19.54	24.19	22.90	20.30
			50	24	25	12	22.49	19.57	24.02	22.90	20.30
			50	50	25	25	22.47	19.21	24.08	22.90	20.30
20175	23095	QPSK	100	0	50	0	22.26	19.68	24.10	22.90	20.30
			1	0	1	0	23.14	16.81	24.13	23.90	17.70
			1	49	1	25	23.01	16.77	24.02	23.90	17.70
			1	99	1	49	22.99	16.89	24.01	23.90	17.70
			50	0	25	0	22.40	19.63	24.20	22.90	20.30
			50	24	25	12	22.54	19.62	24.16	22.90	20.30
20300	23130	QPSK	50	50	25	25	22.53	19.31	24.18	22.90	20.30
			100	0	50	0	22.30	19.81	24.19	22.90	20.30
			1	0	1	0	23.12	16.68	24.08	23.90	17.70
			1	49	1	25	22.98	16.76	23.87	23.90	17.70
			1	99	1	49	22.90	16.79	23.87	23.90	17.70
			50	0	25	0	22.34	19.49	24.12	22.90	20.30
			50	24	25	12	22.49	19.60	24.05	22.90	20.30
			50	50	25	25	22.43	19.24	24.15	22.90	20.30
			100	0	50	0	22.29	19.7	24.06	22.90	20.30

Tune up Power (dBm)

PCC:Ant0 SCC:Ant2		CA 12A-4A										
Combination 10MHz+20MHz (50RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset						
23060	20050	QPSK	1	0	1	0	22.55	16.28	23.44	23.90	17.50	24.8
			1	25	1	49	22.62	16.29	23.48	23.90	17.50	24.8
			1	49	1	99	22.59	16.19	23.40	23.90	17.50	24.8
			25	0	50	0	21.43	18.65	23.20	23.00	20.10	24.8
			25	12	50	24	21.21	18.66	23.13	23.00	20.10	24.8
			25	25	50	50	21.08	18.62	23.07	23.00	20.10	24.8
23095	20175	QPSK	50	0	100	0	21.16	18.57	23.15	23.00	20.10	24.8
			1	0	1	0	22.64	16.34	23.56	23.90	17.50	24.8
			1	25	1	49	22.68	16.33	23.48	23.90	17.50	24.8
			1	49	1	99	22.59	16.23	23.40	23.90	17.50	24.8
			25	0	50	0	21.55	18.78	23.35	23.00	20.10	24.8
			25	12	50	24	21.23	18.69	23.22	23.00	20.10	24.8
23130	20300	QPSK	25	25	50	50	21.10	18.67	23.13	23.00	20.10	24.8
			50	0	100	0	21.25	18.68	23.17	23.00	20.10	24.8
			1	0	1	0	22.64	16.31	23.55	23.90	17.50	24.8
			1	25	1	49	22.53	16.27	23.41	23.90	17.50	24.8
			1	49	1	99	22.55	16.19	23.25	23.90	17.50	24.8
			25	0	50	0	21.46	18.70	23.21	23.00	20.10	24.8
			25	12	50	24	21.09	18.62	23.22	23.00	20.10	24.8
			25	25	50	50	20.88	18.52	22.99	23.00	20.10	24.8
			50	0	100	0	21.22	18.57	23.17	23.00	20.10	24.8

Tune up Power (dBm)

PCC:Ant1 SCC:Ant3			CA 12A-4A									
Combination 10MHz+20MHz (50RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset						
23060	20050	QPSK	1	0	1	0	22.66	17.41	23.74	23.70	18.40	24.8
			1	25	1	49	22.64	17.30	23.76	23.70	18.40	24.8
			1	49	1	99	22.66	17.35	23.81	23.70	18.40	24.8
			25	0	50	0	22.07	19.78	24.16	22.80	20.50	24.8
			25	12	50	24	22.03	19.67	23.97	22.80	20.50	24.8
			25	25	50	50	22.47	19.65	24.09	22.80	20.50	24.8
23095	20175	QPSK	50	0	100	0	22.33	19.78	24.16	22.80	20.50	24.8
			1	0	1	0	22.78	17.46	23.86	23.70	18.40	24.8
			1	25	1	49	22.71	17.33	23.77	23.70	18.40	24.8
			1	49	1	99	22.69	17.41	23.81	23.70	18.40	24.8
			25	0	50	0	22.21	19.91	24.24	22.80	20.50	24.8
			25	12	50	24	22.11	19.79	24.11	22.80	20.50	24.8
23130	20300	QPSK	25	25	50	50	22.49	19.77	24.13	22.80	20.50	24.8
			50	0	100	0	22.40	19.81	24.18	22.80	20.50	24.8
			1	0	1	0	22.76	17.41	23.73	23.70	18.40	24.8
			1	25	1	49	22.59	17.29	23.74	23.70	18.40	24.8
			1	49	1	99	22.67	17.41	23.81	23.70	18.40	24.8
			25	0	50	0	22.15	19.87	24.21	22.80	20.50	24.8
			25	12	50	24	22.10	19.76	23.98	22.80	20.50	24.8
			25	25	50	50	22.39	19.65	23.98	22.80	20.50	24.8
			50	0	100	0	22.33	19.66	24.18	22.80	20.50	24.8



PCC:Ant0		SCC:Ant2		Tune up Power (dBm)									
CA_12A-66A													
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23060	132072	QPSK	1	0	1	0	22.39	16.43	23.34	23.80	18.00	24.8	
			1	25	1	49	22.37	16.33	23.26	23.80	18.00	24.8	
			1	49	1	99	22.31	16.41	23.31	23.80	18.00	24.8	
			25	0	50	0	21.58	18.51	23.25	23.00	20.10	24.8	
			25	12	50	24	21.47	18.59	23.21	23.00	20.10	24.8	
			25	25	50	50	21.45	18.45	23.26	23.00	20.10	24.8	
			50	0	100	0	21.24	18.37	23.17	23.00	20.10	24.8	
			1	0	1	0	22.54	16.58	23.48	23.80	18.00	24.8	
23095	132322	QPSK	1	25	1	49	22.48	16.40	23.33	23.80	18.00	24.8	
			1	49	1	99	22.39	16.44	23.34	23.80	18.00	24.8	
			25	0	50	0	21.58	18.57	23.26	23.00	20.10	24.8	
			25	12	50	24	21.51	18.67	23.22	23.00	20.10	24.8	
			25	25	50	50	21.48	18.54	23.26	23.00	20.10	24.8	
			50	0	100	0	21.24	18.48	23.22	23.00	20.10	24.8	
			1	0	1	0	22.49	16.55	23.33	23.80	18.00	24.8	
			1	25	1	49	22.38	15.99	23.25	23.80	18.00	24.8	
23130	132572	QPSK	1	49	1	99	22.27	16.38	23.22	23.80	18.00	24.8	
			25	0	50	0	21.47	18.53	23.12	23.00	20.10	24.8	
			25	12	50	24	21.39	18.65	23.09	23.00	20.10	24.8	
			25	25	50	50	21.44	18.41	23.23	23.00	20.10	24.8	
			50	0	100	0	21.14	18.38	23.17	23.00	20.10	24.8	

PCC:Ant2 SCC:Ant0		Tune up Power (dBm)										
CA_66A-12A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132072	23060	QPSK	1	0	1	0	22.18	16.87	22.99	23.80	18.00	24.8
			1	49	1	25	22.20	16.94	23.04	23.80	18.00	24.8
			1	99	1	49	22.12	16.97	23.10	23.80	18.00	24.8
			50	0	25	0	21.17	18.93	23.23	23.00	20.10	24.8
			50	24	25	12	21.22	18.91	23.16	23.00	20.10	24.8
			50	50	25	25	21.04	18.85	23.23	23.00	20.10	24.8
132322	23095	QPSK	100	0	50	0	21.12	18.83	23.10	23.00	20.10	24.8
			1	0	1	0	22.21	17.00	23.14	23.80	18.00	24.8
			1	49	1	25	22.23	16.99	23.09	23.80	18.00	24.8
			1	99	1	49	22.15	16.98	23.03	23.80	18.00	24.8
			50	0	25	0	21.26	19.04	23.30	23.00	20.10	24.8
			50	24	25	12	21.23	19.02	23.29	23.00	20.10	24.8
132572	23130	QPSK	50	50	25	25	21.19	18.99	23.26	23.00	20.10	24.8
			100	0	50	0	21.24	18.92	23.21	23.00	20.10	24.8
			1	0	1	0	22.19	16.92	22.99	23.80	18.00	24.8
			1	49	1	25	22.10	16.95	22.94	23.80	18.00	24.8
			1	99	1	49	22.06	16.93	22.94	23.80	18.00	24.8
			50	0	25	0	21.12	18.89	23.23	23.00	20.10	24.8
			50	24	25	12	21.19	18.92	23.19	23.00	20.10	24.8
			50	50	25	25	21.11	18.91	23.20	23.00	20.10	24.8
			100	0	50	0	21.22	18.83	23.07	23.00	20.10	24.8

PCC:Ant1		SCC:Ant3		Tune up Power (dBm)									
CA_12A-66A													
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23060	132072	QPSK	1	0	1	0	22.67	17.72	23.82	23.60	18.70	24.8	
			1	25	1	49	22.61	17.71	23.66	23.60	18.70	24.8	
			1	49	1	99	22.68	17.40	23.61	23.60	18.70	24.8	
			25	0	50	0	22.08	19.60	24.01	22.80	20.50	24.8	
			25	12	50	24	22.07	19.38	23.98	22.80	20.50	24.8	
			25	25	50	50	21.92	19.29	24.01	22.80	20.50	24.8	
23095	132322	QPSK	50	0	100	0	22.32	19.55	24.14	22.80	20.50	24.8	
			1	0	1	0	22.82	17.84	23.88	23.60	18.70	24.8	
			1	25	1	49	22.64	17.76	23.77	23.60	18.70	24.8	
			1	49	1	99	22.71	17.45	23.74	23.60	18.70	24.8	
			25	0	50	0	22.20	19.88	24.10	22.80	20.50	24.8	
			25	12	50	24	22.17	19.40	24.06	22.80	20.50	24.8	
23130	132572	QPSK	25	25	50	50	22.05	19.32	24.03	22.80	20.50	24.8	
			50	0	100	0	22.43	19.64	24.18	22.80	20.50	24.8	
			1	0	1	0	22.77	17.74	23.77	23.60	18.70	24.8	
			1	25	1	49	22.60	17.68	23.66	23.60	18.70	24.8	
			1	49	1	99	22.67	17.45	23.71	23.60	18.70	24.8	
			25	0	50	0	22.19	19.74	24.04	22.80	20.50	24.8	
			25	12	50	24	22.16	19.34	23.95	22.80	20.50	24.8	
			25	25	50	50	21.94	19.27	23.93	22.80	20.50	24.8	
			50	0	100	0	22.32	19.53	24.17	22.80	20.50	24.8	

PCC:Ant3 SCC:Ant1		Tune up Power (dBm)										
CA_66A-12A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132072	23060	QPSK	1	0	1	0	23.03	16.52	23.93	23.90	17.50	24.8
			1	49	1	25	23.12	16.46	23.87	23.90	17.50	24.8
			1	99	1	49	23.01	16.30	23.80	23.90	17.50	24.8
			50	0	25	0	22.22	19.58	23.95	22.80	20.50	24.8
			50	24	25	12	22.14	19.53	23.99	22.80	20.50	24.8
			50	50	25	25	21.99	19.22	24.02	22.80	20.50	24.8
132322	23095	QPSK	100	0	50	0	22.04	19.79	24.07	22.80	20.50	24.8
			1	0	1	0	23.03	16.57	24.04	23.90	17.50	24.8
			1	49	1	25	23.12	16.48	23.98	23.90	17.50	24.8
			1	99	1	49	23.05	16.33	23.91	23.90	17.50	24.8
			50	0	25	0	22.27	19.70	24.10	22.80	20.50	24.8
			50	24	25	12	22.21	19.68	24.02	22.80	20.50	24.8
132572	23130	QPSK	50	50	25	25	22.11	19.36	24.08	22.80	20.50	24.8
			100	0	50	0	22.18	19.93	24.17	22.80	20.50	24.8
			1	0	1	0	23.00	16.54	24.01	23.90	17.50	24.8
			1	49	1	25	23.07	16.39	23.87	23.90	17.50	24.8
			1	99	1	49	23.01	16.33	23.87	23.90	17.50	24.8
			50	0	25	0	22.14	19.68	23.96	22.80	20.50	24.8
			50	24	25	12	22.14	19.68	24.01	22.80	20.50	24.8
			50	50	25	25	22.09	19.34	23.99	22.80	20.50	24.8
			100	0	50	0	22.09	19.78	24.09	22.80	20.50	24.8

Tune up Power (dBm)

PCC:Ant0 SCC:Ant2

CA_13A-66A												
Combination 10MHz+20MHz (50RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
23230	132072	QPSK	1	0	1	0	23.71	15.71	24.33	24.10	16.50	24.8
			1	25	1	49	23.74	14.92	24.19	24.10	16.50	24.8
			1	49	1	99	23.73	15.31	24.35	24.10	16.50	24.8
			25	0	50	0	23.22	17.79	24.33	23.60	18.70	24.8
			25	12	50	24	23.14	17.67	24.18	23.60	18.70	24.8
			25	25	50	50	23.04	17.64	24.16	23.60	18.70	24.8
23230	132322	QPSK	50	0	100	0	22.97	17.72	24.17	23.60	18.70	24.8
			1	0	1	0	23.81	15.78	24.44	24.10	16.50	24.8
			1	25	1	49	23.78	15.01	24.32	24.10	16.50	24.8
			1	49	1	99	23.76	15.42	24.35	24.10	16.50	24.8
			25	0	50	0	23.28	17.83	24.37	23.60	18.70	24.8
			25	12	50	24	23.19	17.75	24.30	23.60	18.70	24.8
23230	132572	QPSK	25	25	50	50	23.11	17.65	24.20	23.60	18.70	24.8
			50	0	100	0	23.08	17.79	24.21	23.60	18.70	24.8
			1	0	1	0	23.66	15.63	24.36	24.10	16.50	24.8
			1	25	1	49	23.69	14.86	24.32	24.10	16.50	24.8
			1	49	1	99	23.65	15.33	24.28	24.10	16.50	24.8
			25	0	50	0	23.16	17.69	24.27	23.60	18.70	24.8
23230	132572	QPSK	25	12	50	24	23.17	17.73	24.20	23.60	18.70	24.8
			25	25	50	50	23.03	17.51	24.10	23.60	18.70	24.8
			50	0	100	0	22.99	17.64	24.21	23.60	18.70	24.8

Tune up Power (dBm)

PCC:Ant1 SCC:Ant3

CA_13A-66A												
Combination 10MHz+20MHz (50RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
23230	132072	QPSK	1	0	1	0	22.00	16.33	23.31	23.80	18.00	24.8
			1	25	1	49	22.12	16.63	23.18	23.80	18.00	24.8
			1	49	1	99	21.95	16.57	22.98	23.80	18.00	24.8
			25	0	50	0	20.88	19.48	23.25	22.50	21.00	24.8
			25	12	50	24	20.85	19.39	23.27	22.50	21.00	24.8
			25	25	50	50	20.90	19.40	23.37	22.50	21.00	24.8
23230	132322	QPSK	50	0	100	0	20.70	19.60	23.11	22.50	21.00	24.8
			1	0	1	0	22.14	16.44	23.35	23.80	18.00	24.8
			1	25	1	49	22.23	16.63	23.21	23.80	18.00	24.8
			1	49	1	99	22.04	16.72	23.11	23.80	18.00	24.8
			25	0	50	0	21.01	19.61	23.33	22.50	21.00	24.8
			25	12	50	24	20.96	19.50	23.41	22.50	21.00	24.8
23230	132572	QPSK	25	25	50	50	21.03	19.54	23.39	22.50	21.00	24.8
			50	0	100	0	20.84	19.71	23.24	22.50	21.00	24.8
			1	0	1	0	22.04	16.31	23.27	23.80	18.00	24.8
			1	25	1	49	22.11	16.54	23.16	23.80	18.00	24.8
			1	49	1	99	22.02	16.70	23.03	23.80	18.00	24.8
			25	0	50	0	20.97	19.58	23.21	22.50	21.00	24.8
23230	132572	QPSK	25	12	50	24	20.94	19.48	23.38	22.50	21.00	24.8
			25	25	50	50	20.92	19.52	23.38	22.50	21.00	24.8
			50	0	100	0	20.82	19.59	23.19	22.50	21.00	24.8

Tune up Power (dBm)

PCC:Ant2 SCC:Ant0

CA_66A-13A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132072	23230	QPSK	1	0	1	0	22.13	18.80	23.72	23.10	20.00	24.8
			1	49	1	25	21.97	18.05	23.71	23.10	20.00	24.8
			1	99	1	49	22.03	18.47	23.64	23.10	20.00	24.8
			50	0	25	0	21.02	20.96	24.17	21.80	21.80	24.8
			50	24	25	12	20.91	20.97	24.14	21.80	21.80	24.8
			50	50	25	25	21.15	21.36	23.92	21.80	21.80	24.8
			100	0	50	0	21.09	21.06	24.07	21.80	21.80	24.8
			1	0	1	0	22.26	18.81	23.85	23.10	20.00	24.8
			1	49	1	25	22.04	18.10	23.75	23.10	20.00	24.8
			1	99	1	49	22.11	18.56	23.70	23.10	20.00	24.8
132322	23230	QPSK	50	0	25	0	21.05	21.10	24.20	21.80	21.80	24.8
			50	24	25	12	21.01	21.11	24.18	21.80	21.80	24.8
			50	50	25	25	21.22	21.40	24.05	21.80	21.80	24.8
			100	0	50	0	21.23	21.20	24.12	21.80	21.80	24.8
			1	0	1	0	22.25	18.71	23.81	23.10	20.00	24.8
			1	49	1	25	22.02	18.04	23.64	23.10	20.00	24.8
			1	99	1	49	21.99	18.42	23.66	23.10	20.00	24.8
			50	0	25	0	20.98	21.03	24.19	21.80	21.80	24.8
			50	24	25	12	20.89	20.97	24.10	21.80	21.80	24.8
			50	50	25	25	21.15	21.26	24.03	21.80	21.80	24.8
132572	23230	QPSK	100	0	50	0	21.21	21.1	24.12	21.80	21.80	24.8

Tune up Power (dBm)

PCC:Ant3 SCC:Ant1

CA_66A-13A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132072	23230	QPSK	1	0	1	0	23.12	16.79	23.92	23.80	18.00	24.8
			1	49	1	25	22.99	16.61	23.76	23.80	18.00	24.8
			1	99	1	49	23.09	16.50	23.73	23.80	18.00	24.8
			50	0	25	0	22.18	18.50	23.69	23.30	19.50	24.8
			50	24	25	12	22.09	18.54	23.67	23.30	19.50	24.8
			50	50	25	25	22.11	18.39	23.70	23.30	19.50	24.8
			100	0	50	0	22.22	18.00	23.57	23.30	19.50	24.8
			1	0	1	0	23.23	16.83	23.93	23.80	18.00	24.8
			1	49	1	25	23.11	16.70	23.78	23.80	18.00	24.8
			1	99	1	49	23.18	16.58	23.81	23.80	18.00	24.8
132322	23230	QPSK	50	0	25	0	22.24	18.64	23.74	23.30	19.50	24.8
			50	24	25	12	22.15	18.55	23.75	23.30	19.50	24.8
			50	50	25	25	22.22	18.41	23.71	23.30	19.50	24.8
			100	0	50	0	22.25	18.11	23.70	23.30	19.50	24.8
			1	0	1	0	23.20	16.68	23.82	23.80	18.00	24.8
			1	49	1	25	23.06	16.69	23.65	23.80	18.00	24.8
			1	99	1	49	23.09	16.49	23.73	23.80	18.00	24.8
			50	0	25	0	22.11	18.56	23.66	23.30	19.50	24.8
			50	24	25	12	22.09	18.41	23.74	23.30	19.50	24.8
			50	50	25	25	22.11	18.35	23.71	23.30	19.50	24.8
132572	23230	QPSK	100	0	50	0	22.23	18.05	23.58	23.30	19.50	24.8

ZXC		POC										BCC										Power	
Configure	CA Configuration (BCC)	LTE Band								Mod.	LTE RB	LTE QMSS	LTE Band								WDC Tx Power (dBm)	WDC Tx Power (dBm)	
		7	8	20	2535	15	16	15	16				15	16	15	16	15	16	15	16			
	CA_74A4A	25	20	2535	2535	1500	1500	QPSK	1	99	48	20	2540	2540	2540	2540	23.90	24.20					
	CA_25A4A	25	20	1500	1500	2535	2535	QPSK	1	99	41	20	2535	2535	2535	2535	23.90	24.18					
	CA_25A4A	25	20	1500	1500	2535	2535	QPSK	1	99	48	20	2540	2540	2540	2540	23.97	24.19					
	CA_36A4A	25	15	841.5	20605	20605	20605	QPSK	1	0	41	20	2535	2535	2535	2535	23.70	24.01					
	CA_44A4A	25	20	1732.5	25175	25175	25175	QPSK	1	0	44	20	2625	2625	2625	2625	23.80	24.73					
	CA_41A4A	25	20	2540	2540	2540	2540	QPSK	1	99	41	20	2535	2535	2535	2535	23.78	24.23					
	CA_38C	38	20	2535	21100	21100	21100	QPSK	1	99	7	20	2535	2535	2535	2535	23.78	24.19					
USB-Band	CA_38C	38	20	2580	37860	37860	37860	QPSK	1	99	38	20	2550.8	2550.8	2550.8	2550.8	23.85	24.20					

[illegible]

ACQ	Case	PDC										DCS										WFO Case			
		Cdr		Lb		Bw		LA Freq (MHz)		LA Chn		Mod.		ULB RB		Cdr		Lb		Bw		LA Freq (MHz)		LA Chn	
		Call	LT Band	BW (MHz)	LA Freq (MHz)	LA Chn	Mod.	ULB RB	Call	LT Band	BW (MHz)	LA Freq (MHz)	LA Chn	Call	LT Band	BW (MHz)	LA Freq (MHz)	LA Chn	Call	LT Band	BW (MHz)	LA Freq (MHz)	LA Chn		
Core	CA	CA.2A.4A-12A	2	20	1900	1900	OPSK	1	59	2	5	1903.5	623	4	20	2132.5	2175	12	10	737.5	5005	23.88	23.87		
	CA	CA.2A.4A-71A	2	20	1900	1900	OPSK	1	59	2	5	1903.5	623	4	20	2132.5	2175	12	10	737.5	5005	23.88	23.87		
	CA	CA.2A-12A-68A	2	20	1900	1900	OPSK	1	59	2	5	1903.5	623	12	10	737.5	5005	66	20	2145	6878	23.85	23.87		
	CA	CA.2A-68A-68A	2	20	1900	1900	OPSK	1	59	2	5	1903.5	625	66	20	2150	6688	66	5	2197.5	6731	23.88	23.87		
	CA	CA.2A-68A-71A	2	20	1900	1900	OPSK	1	59	2	5	1903.5	625	66	20	2150	6688	71	20	634	5	2197.5	23.88	23.87	
	CA	CA.2A-4A-12A	2	20	1900	1900	OPSK	1	59	2	5	1903.5	623	4	20	2132.5	2175	12	10	737.5	5005	23.88	23.87		
	CA	CA-12A-68A-68A	2	20	1900	1900	OPSK	1	59	12	10	737.5	5005	66	20	2150	6688	66	5	2197.5	6731	23.88	23.87		
	CA	CA-4A-68A-68A	2	20	1900	1900	OPSK	1	59	46	48	2160	4689	66	20	2095	6430	48	20	6885	5888	23.83	23.87		
	CA	CA-68A-68A-71A	2	20	1900	1900	OPSK	1	59	2	5	1903.5	625	66	20	2150	6688	71	20	634	5	2197.5	23.88	23.87	
	CA	CA.2A-68C	2	20	1900	1900	OPSK	1	59	2	5	1903.5	623	66	20	2145	6688	48	20	6850	5888	23.83	23.87		
Inter-Band	CA	CA.2A-12A-68C	2	20	1900	1900	OPSK	1	59	2	5	1903.5	623	66	20	2145	6688	48	20	6850	5888	23.83	23.87		
	CA	CA.2A-68C	2	20	1900	1900	OPSK	1	59	46	20	2160	4689	66	20	2150	6688	48	20	6850	5888	23.83	23.87		
	CA	CA.2A-68C-68A	2	20	1900	1900	OPSK	1	59	46	20	2160	4689	66	20	2150	6688	48	20	6850	5888	23.83	23.87		
	CA	CA.2A-68C-68A	2	20	1900	1900	OPSK	1	59	46	20	2160	4689	66	20	2150	6688	48	20	6850	5888	23.83	23.87		
	CA	CA.2A-68C-68A	2	20	1900	1900	OPSK	1	59	46	20	2160	4689	66	20	2150	6688	48	20	6850	5888	23.83	23.87		
	CA	CA.2A-68C-68A	2	20	1900	1900	OPSK	1	59	46	20	2160	4689	66	20	2150	6688	48	20	6850	5888	23.83	23.87		
	CA	CA.2A-68C-68A	2	20	1900	1900	OPSK	1	59	46	20	2160	4689	66	20	2150	6688	48	20	6850	5888	23.83	23.87		
	CA	CA.2A-68C-68A	2	20	1900	1900	OPSK	1	59	46	20	2160	4689	66	20	2150	6688	48	20	6850	5888	23.83	23.87		
	CA	CA.2A-68C-68A	2	20	1900	1900	OPSK	1	59	46	20	2160	4689	66	20	2150	6688	48	20	6850	5888	23.83	23.87		
	CA	CA.2A-68C-68A	2	20	1900	1900	OPSK	1	59	46	20	2160	4689	66	20	2150	6688	48	20	6850	5888	23.83	23.87		
Non-Continuous	CA	CA.2A-68C-71A	2	20	1900	1900	OPSK	1	59	66	20	2155	6688	66	20	2174.8	6704	71	20	637	6878	23.91	23.87		
	CA	CA.2A-68C-68C	2	20	1880	2186C	OPSK	1	59	2	20	1880	1100	66	20	2150	6688	66	20	2160	6726	23.90	23.87		
	CA	CA.2A-68C-68C	2	20	1880	2186C	OPSK	1	59	2	20	1880	1100	66	20	2150	6688	66	20	2160	6726	23.90	23.87		
	CA	CA.2A-68C-68C	2	20	1880	2186C	OPSK	1	49	41	20	2053	4060	41	20	2012.8	4081.8	41	20	2032.8	4101.8	23.93	24.00		
	CA	CA.2A-410	25	20	1880	26340	OPSK	1	49	46	20	2037.5	5066	46	20	2057.3	5093	46	20	2077.3	5101	24.33	24.00		
	CA	CA.64C-68A	98	20	1745	12322	OPSK	1	0	46	20	1637.5	5066	46	20	2160	6688	46	20	2173.8	6728	24.02	24.04		
	CA	CA.64C-68A-68A	98	20	1745	12322	OPSK	1	0	46	20	1637.5	5066	46	20	2160	6688	98	20	2173.8	6728	24.02	24.04		
	CA	CA.64C-68A-68A	98	20	1745	12322	OPSK	1	0	46	20	1637.5	5066	46	20	2160	6688	98	20	2173.8	6728	24.02	24.04		
	CA	CA.41A-410	41	20	2545	40185	OPSK	1	59	41	20	2462.2	4104	41	20	2660.2	4120	41	20	2680	4140	24.21	24.23		
	CA	CA.41A-410	41	20	2545	40185	OPSK	1	59	41	20	2462.2	4104	41	20	2660.2	4120	41	20	2680	4140	24.21	24.23		
Inter-Band	CA	CA.41E	41	20	2545	40185	OPSK	1	59	41	20	2462.2	4103	41	20	2588.1	4105	41	20	2604.9	4077.9	24.20	24.23		

SCC	SCC																							WRC-15	WRC-15	WRC-15	WRC-15
Configure	CA Configuration (BCS)	PCC						SCC1				SCC3				SCC4				WRC-15 CA Power	WRC-15 CA Power	WRC-15 CA Power	WRC-15 CA Power				
		LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	Mod	UL PRB	DL PRB	LTE Band	DL Freq (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel								
Inter Band	CA_24A-48C-48E-6A	2	20	9000	19000	QPSK	1	99	48	20	2105	60880	46	20	5995	63430	46	20	5160	40660	46	20	5179.8	40680	23.91	23.97	
	CA_24A-48D	2	20	9000	19100	QPSK	1	99	46	20	5337.5	53065	46	20	5160	47090	46	20	5160	47088	46	20	5169.5	47088	23.89	23.97	
	CA_24A-48D	2	20	9100	19100	QPSK	1	99	46	20	5337.5	53065	46	20	5995	53030	46	20	5160	47088	46	20	5169.5	47088	23.91	23.97	
	CA_24A-48C	2	20	9000	19100	QPSK	1	99	46	20	5337.5	53065	46	20	5179.8	47090	46	20	5160.2	54142	46	20	5065	54340	23.89	23.97	
	CA_24A-48C	2	20	1000	19100	QPSK	1	99	46	20	5451.2	53922	46	20	5980	53980	46	20	5360	55340	46	20	3575.8	55338	23.90	23.97	
	CA_24A-48C	2	20	1000	19100	QPSK	1	99	46	20	5451.2	53931	46	20	5532.2	54042	46	20	5532.2	54042	46	20	5532.2	54042	23.90	23.97	
	CA_24A-48D	2	20	1000	19100	QPSK	1	99	46	20	5532.2	54042	46	20	5532.2	54042	46	20	5532.2	54042	46	20	5532.2	54042	23.90	23.97	
	CA_4A-48A-48D	2	4	1732.8	23955	QPSK	1	0	46	20	5337.5	53065	46	20	5160	46980	46	20	5160	47088	46	20	5169.5	47088	23.88	23.94	
	CA_12A-4E	12	10	707.5	20176	QPSK	1	49	46	20	5517.7	50467	46	20	5537.5	50860	46	20	5579.3	50863	46	20	5271.1	51061	23.95	23.71	
	CA_48A-48D	68	124	1732.8	32332	QPSK	1	0	46	20	5160	46980	46	20	5532.2	50940	46	20	5532.2	50940	46	20	5532.2	50940	23.83	23.84	
Intra-Band	CA_48A-48D	68	124	1732.8	32332	QPSK	1	0	46	20	5160	46980	46	20	5532.2	50940	46	20	5532.2	50940	46	20	5532.2	50940	23.83	23.84	
	CA_48C-48E-6A	68	2745	1745	32332	QPSK	1	0	46	20	5179.8	46980	46	20	5179.8	47088	46	20	5160.2	54142	46	20	5065	54340	24.02	24.04	
	CA_48C-48E-6A	68	2745	1745	32332	QPSK	1	0	46	20	5451.2	53922	46	20	5980	53980	46	20	5360	55340	46	20	3575.8	55338	24.01	24.04	
	CA_48C-48D	68	2745	1745	32332	QPSK	1	0	46	20	5532.2	54042	46	20	5532.2	54042	46	20	5532.2	54042	46	20	5532.2	54042	23.93	23.94	
	CA_48C-48D	68	2745	1732.8	32332	QPSK	1	0	46	20	5160	46980	46	20	5532.2	50940	46	20	5532.2	50940	46	20	5532.2	50940	23.89	23.94	
	CA_48E-6A	68	2745	1745	32332	QPSK	1	0	46	20	5451.2	53930	46	20	5979.8	53938	46	20	5359.8	55738	46	20	3610.4	55734	23.88	24.04	
Intra-Band	Non-Proprietary	CA_48E-6A	68	2745	1745	32332	QPSK	1	0	46	20	5451.2	53930	46	20	5979.8	53938	46	20	5359.8	55738	46	20	3610.4	55734	23.88	24.04
	CA_48C-48D	68	2745	1732.8	32332	QPSK	1	0	46	20	5160	46980	46	20	5532.2	50940	46	20	5532.2	50940	46	20	5532.2	50940	23.89	23.94	

80C		80C																								Power		WFO CA						
Config#	CA Configuration (80C)	PCD						80C1				80C2				80C3				80C4				80C5				Web CA To Power (dBm)	WFO CA To Power (dBm)					
		LTE Band	SW (MHz)	UL Freq (MHz)	DL Channel	Mod.	UL/RB Offset	LTE Band	SW (MHz)	DL Freq (MHz)	DL Channel	LTE Band	SW (MHz)	DL Freq (MHz)	DL Channel	LTE Band	SW (MHz)	DL Freq (MHz)	DL Channel	LTE Band	SW (MHz)	DL Freq (MHz)	DL Channel	LTE Band	SW (MHz)	DL Freq (MHz)	DL Channel							
Wife-Band	CA 24-48-68A	2	20	1900	1910	QPSK	1	99	46	20	5520	5980	48	20	5530	5980	48	20	5559	5980	48	20	5590	5980	48	20	5580	5980	48	20	2155	6088	23.85	23.97
	CA 48C-48D-68A	68	20	1745	17322	QPSK	1	6	46	20	5540.2	5980	48	20	5560	5980	48	20	5659.2	5972	48	20	5685	5980	48	20	5644.8	5988	23.85	24.04				

[illegible]



Full Power Mode - UAT

n2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	24.8	0.0
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	23.87	23.95	23.93		
20	PI2 BPSK	1	53	23.71	23.83	23.82	24.3	0.5
20	PI2 BPSK	1	104	23.85	23.86	23.73		
20	PI2 BPSK	50	0	23.33	23.38	23.31		
20	PI2 BPSK	50	28	23.82	23.90	23.88	24.3	0.5
20	PI2 BPSK	50	56	23.41	23.39	23.33		
20	PI2 BPSK	100	0	23.25	23.35	23.33		
20	QPSK	1	1	23.88	23.91	23.78	24.8	0.0
20	QPSK	1	53	23.84	23.88	23.82		
20	QPSK	1	104	23.78	23.84	23.78		
20	QPSK	50	0	22.83	22.89	22.85	23.8	1.0
20	QPSK	50	28	23.90	23.88	23.79		
20	QPSK	50	86	22.88	22.87	22.78		
20	QPSK	100	0	22.98	22.86	22.84	23.8	1.0
20	16QAM	1	1	22.88	22.67	22.62		
20	64QAM	1	1	21.23	21.27	21.18		
20	256QAM	1	1	19.35	19.44	19.21	20.3	4.5
Channel				371000	376000	380000		
Frequency (MHz)				1867.5	1880	1902.5		
15	PI2 BPSK	1	1	23.78	23.80	23.85	24.8	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1880	1905		
10	PI2 BPSK	1	1	23.83	23.79	23.76		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1892.5	1880	1907.5		
5	PI2 BPSK	1	1	23.83	23.85	23.58		

n5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				167800	167300	167300	24.3	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.83	23.66	23.60		
20	PI2 BPSK	1	53	23.66	23.62	23.48	23.8	0.5
20	PI2 BPSK	1	104	23.48	23.57	23.36		
20	PI2 BPSK	50	0	23.06	23.09	23.05		
20	PI2 BPSK	50	28	23.58	23.61	23.54	23.8	0.5
20	PI2 BPSK	50	56	22.97	23.02	22.88		
20	PI2 BPSK	100	0	23.07	23.08	23.05		
20	QPSK	1	1	23.56	23.65	23.54	24.3	0.0
20	QPSK	1	53	23.55	23.61	23.48		
20	QPSK	1	104	23.45	23.62	23.42		
20	QPSK	50	0	22.57	22.66	22.53	23.3	1.0
20	QPSK	50	28	23.55	23.65	23.38		
20	QPSK	50	56	22.36	22.57	22.32		
20	QPSK	100	0	22.51	22.65	22.44	23.3	1.0
20	16QAM	1	1	22.74	22.86	22.68		
20	64QAM	1	1	20.58	20.99	20.51		
20	256QAM	1	1	18.70	18.98	18.68	19.3	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	PI2 BPSK	1	1	23.44	23.61	23.16	24.3	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				830	836.5	844		
10	PI2 BPSK	1	1	23.22	23.43	23.11		
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	PI2 BPSK	1	1	23.36	23.52	23.44		

n7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000	24.8	0.0
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	24.01	24.14	24.04		
20	PI2 BPSK	1	53	23.87	23.93	23.92	24.8	0.0
20	PI2 BPSK	1	104	23.95	23.98	23.94		
20	PI2 BPSK	50	0	23.53	23.52	23.55		
20	PI2 BPSK	50	28	23.96	24.08	24.00	24.8	0.0
20	PI2 BPSK	50	56	23.87	23.99	23.96		
20	PI2 BPSK	100	0	23.53	24.04	23.96		
20	QPSK	1	1	23.98	24.00	23.99	24.8	0.0
20	QPSK	1	53	23.98	23.99	23.97		
20	QPSK	1	104	23.95	23.97	23.92		
20	QPSK	50	0	23.44	23.45	23.47	24.3	0.5
20	QPSK	50	28	23.86	23.96	23.87		
20	QPSK	50	56	23.34	23.31	23.35		
20	QPSK	100	0	23.20	23.37	23.36	24.3	0.5
20	16QAM	1	1	23.41	23.43	23.48		
20	64QAM	1	1	21.95	21.87	21.88		
20	256QAM	1	1	19.83	19.85	19.84	20.8	4.0
Channel				501000	507000	512000		
Frequency (MHz)				2507.5	2535	2562.5		
15	PI2 BPSK	1	1	23.66	23.78	23.63	24.8	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508	2535	2565		
10	PI2 BPSK	1	1	23.69	23.79	23.76		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI2 BPSK	1	1	23.72	23.82	23.79		



n25									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit [dBm]	MPR [dB]	
Channel				372500	376500	381000	1905		
Frequency (MHz)				1860	1882.5	1905			
20	PI2 BPSK	1	1	24.09	24.16	24.13	24.8	0.0	
20	PI2 BPSK	1	53	24.02	24.06	24.04			
20	PI2 BPSK	1	104	24.05	24.07	23.98	24.8	0.0	
20	PI2 BPSK	50	0	24.05	24.08	24.05			
20	PI2 BPSK	50	28	24.08	24.12	24.10	24.8	0.0	
20	PI2 BPSK	50	56	23.98	23.81	24.01			
20	PI2 BPSK	100	0	23.95	24.00	23.98	24.8	0.0	
20	QPSK	1	1	23.94	24.10	24.12			
20	QPSK	1	53	24.08	24.09	24.08	24.8	0.0	
20	QPSK	1	104	24.04	24.10	23.94			
20	QPSK	50	0	23.99	23.69	23.63	24.3	0.5	
20	QPSK	50	28	23.98	24.09	24.06			
20	QPSK	50	56	23.46	23.42	23.50	24.3	0.5	
20	QPSK	100	0	23.48	23.66	23.42			
20	16QAM	1	1	23.41	23.42	23.98	24.3	0.5	
20	64QAM	1	1	22.08	22.12	22.16			
20	256QAM	1	1	20.07	20.17	20.10	20.8	4.0	
Channel				371500	375500	381500			
Frequency (MHz)				1857.5	1882.5	1907.5	1905		
15	PI2 BPSK	1	1	24.12	24.05	24.14		24.8	
Channel				371000	376000	382000	1905		
Frequency (MHz)				1865	1884.5	1910			
10	PI2 BPSK	1	1	24.12	24.02	24.01	24.8	0.0	
Channel				370500	376500	382500			
Frequency (MHz)				1862.5	1882.5	1912.5	1905		
5	PI2 BPSK	1	1	24.00	24.08	23.93		24.8	

n66									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit [dBm]	MPR [dB]	
Channel				344000	349000	354000	1720		
Frequency (MHz)				1720	1745	1770			
20	PI2 BPSK	1	1	24.18	24.21	24.14	24.8	0.0	
20	PI2 BPSK	1	53	24.04	24.07	24.10			
20	PI2 BPSK	1	104	24.09	24.12	24.04	24.8	0.0	
20	PI2 BPSK	50	0	24.12	24.07	24.03			
20	PI2 BPSK	50	28	24.13	24.15	24.10	24.8	0.0	
20	PI2 BPSK	50	56	24.09	24.04	24.08			
20	PI2 BPSK	100	0	24.05	24.08	24.03	24.8	0.0	
20	QPSK	1	1	24.09	24.08	23.92			
20	QPSK	1	53	24.00	24.01	24.03	24.8	0.0	
20	QPSK	1	104	23.92	23.71	24.00			
20	QPSK	50	0	23.83	23.30	23.47	24.3	0.5	
20	QPSK	50	28	24.07	24.03	24.00			
20	QPSK	50	56	23.47	23.25	23.40	24.3	0.5	
20	QPSK	100	0	23.36	23.40	23.48			
20	16QAM	1	1	23.24	23.08	23.12	24.3	0.5	
20	64QAM	1	1	21.83	21.97	21.69			
20	256QAM	1	1	20.09	20.15	19.77	20.8	4.0	
Channel				343500	349500	355500			
Frequency (MHz)				1717.5	1745	1772.5	1905		
15	PI2 BPSK	1	1	24.08	24.17	24.08		24.8	
Channel				343000	349000	355000	1720		
Frequency (MHz)				1715	1740	1770			
10	PI2 BPSK	1	1	24.18	24.05	24.11	24.8	0.0	
Channel				342500	349500	356500			
Frequency (MHz)				1712.5	1745	1777.5	1905		
5	PI2 BPSK	1	1	23.98	24.08	24.11		24.8	

n71									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit [dBm]	MPR [dB]	
Channel				134000	136100	137600	675		
Frequency (MHz)				675	680.5	686			
20	PI2 BPSK	1	1	23.92	23.96	23.85	24.8	0.0	
20	PI2 BPSK	1	53	23.79	23.85	23.76			
20	PI2 BPSK	1	104	23.76	23.68	23.47	24.8	0.0	
20	PI2 BPSK	50	0	23.77	23.70	23.75			
20	PI2 BPSK	50	28	23.85	23.90	23.79	24.8	0.0	
20	PI2 BPSK	50	56	23.66	23.67	23.53			
20	PI2 BPSK	100	0	23.62	23.67	23.76	24.8	0.0	
20	QPSK	1	1	23.68	23.92	23.86			
20	QPSK	1	53	23.76	23.84	23.75	24.8	0.0	
20	QPSK	1	104	23.60	23.74	23.46			
20	QPSK	50	0	23.43	23.31	23.30	24.3	0.5	
20	QPSK	50	28	23.85	23.78	23.67			
20	QPSK	50	56	23.29	23.13	23.02	24.3	0.5	
20	QPSK	100	0	23.38	23.30	23.13			
20	16QAM	1	1	23.44	23.32	23.36	24.3	0.5	
20	64QAM	1	1	21.58	21.62	21.61			
20	256QAM	1	1	19.92	19.72	19.75	20.8	4.0	
Channel				134100	136100	138100			
Frequency (MHz)				676.5	680.5	686.5	1905		
15	PI2 BPSK	1	1	23.91	23.65	23.65		24.8	
Channel				133600	136100	138600	1720		
Frequency (MHz)				668	680.5	693			
10	PI2 BPSK	1	1	23.92	23.75	23.73	24.8	0.0	
Channel				133100	136100	139100			
Frequency (MHz)				665.5	680.5	695.5	1905		
5	PI2 BPSK	1	1	23.71	23.88	23.77		24.8	



n41_FCC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				500202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	P12 BPSK	1	1	23.00	23.08	22.96		24.1	0.0
100	P12 BPSK	1	137	22.99	23.01	22.91			
100	P12 BPSK	1	271	22.95	22.98	22.95		24.1	0.0
100	P12 BPSK	135	0	22.37	22.34	22.48			
100	P12 BPSK	135	69	22.97	23.02	22.94		24.1	0.0
100	P12 BPSK	135	138	22.96	22.48	22.95			
100	P12 BPSK	270	0	22.45	22.52	22.43	23.6	0.5	
100	QPSK	1	1	22.80	22.88	23.00			
100	QPSK	1	137	22.98	23.00	22.95		24.1	0.0
100	QPSK	1	271	22.94	23.01	22.99			
100	QPSK	135	0	22.36	21.97	21.94		24.1	0.0
100	QPSK	135	69	22.96	22.93	23.03			
100	QPSK	135	138	22.43	21.97	22.09		23.1	1.0
100	QPSK	270	0	22.43	21.95	22.04			
100	16QAM	1	1	21.83	21.85	21.86	23.1	2.5	
100	64QAM	1	1	20.34	20.46	20.42	21.6		
100	256QAM	1	1	18.24	18.36	18.31	19.6	4.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2644	2692.99	2644.98			
90	P12 BPSK	1	1	22.85	23.02	22.85	24.1	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2636.02	2692.99	2649.99			
80	P12 BPSK	1	1	22.88	22.91	22.97	24.1	0.0	
Channel				503204	518598	529598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2692.99	2664.99			
50	P12 BPSK	1	1	22.93	22.88	22.90	24.1	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2514.01	2692.99	2674.98			
40	P12 BPSK	1	1	23.03	22.90	23.01	24.1	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2692.99	2674.98			
30	P12 BPSK	1	1	22.98	22.94	22.98	24.1	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2692.99	2679.99			
20	P12 BPSK	1	1	22.89	22.96	22.90	24.1	0.0	

n41(HPUE)_FCC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				500202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	P12 BPSK	1	1	26.12	26.18	26.11		26.8	0.0
100	P12 BPSK	1	137	26.11	26.15	26.14			
100	P12 BPSK	1	271	26.05	26.14	26.05		26.8	0.0
100	P12 BPSK	135	0	25.41	25.56	25.54			
100	P12 BPSK	135	69	26.02	26.03	26.00		26.8	0.0
100	P12 BPSK	135	138	25.68	25.66	25.61			
100	P12 BPSK	270	0	25.79	25.88	25.81	26.3	0.5	
100	QPSK	1	1	26.04	26.10	26.05			
100	QPSK	1	137	26.11	26.13	26.04		26.8	0.0
100	QPSK	1	271	26.04	26.14	26.09			
100	QPSK	135	0	25.04	25.08	25.11		26.8	0.0
100	QPSK	135	69	26.01	26.05	26.13			
100	QPSK	135	138	26.07	25.06	25.12		25.8	1.0
100	QPSK	270	0	25.05	25.01	25.09			
100	16QAM	1	1	25.36	25.31	25.34	25.9	2.5	4.5
100	64QAM	1	1	23.18	23.26	23.31	24.3		
100	256QAM	1	1	21.49	21.52	21.44	22.3		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2644	2692.99	2644.98			
90	P12 BPSK	1	1	26.00	26.05	26.05	26.8	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2636.02	2692.99	2649.99			
80	P12 BPSK	1	1	25.97	26.06	26.01	26.8	0.0	
Channel				503204	518598	529598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2692.99	2664.99			
50	P12 BPSK	1	1	25.98	26.04	26.02	26.8	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2514.01	2692.99	2674.98			
40	P12 BPSK	1	1	25.96	26.02	25.98	26.8	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2692.99	2674.98			
30	P12 BPSK	1	1	26.00	26.06	26.04	26.8	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2692.99	2679.99			
20	P12 BPSK	1	1	25.95	26.07	26.03	26.8	0.0	

n77										
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	656000	662000				
Frequency (MHz)				3790	3840	3930				
100	P12 BPSK	1	1	23.97	24.22	24.16		24.8	0.0	
100	P12 BPSK	1	137	23.86	24.20	23.94				
100	P12 BPSK	1	271	23.81	24.08	23.96		24.8	0.0	
100	P12 BPSK	135	0	23.75	24.08	24.01				
100	P12 BPSK	135	69	23.92	24.13	24.12	24.8	0.0		
100	P12 BPSK	135	138	23.85	23.88	23.92				
100	P12 BPSK	270	0	23.82	24.12	23.88	24.8	0.0		
100	QPSK	1	1	23.94	24.06	23.95				
100	QPSK	1	137	23.75	23.79	23.89		24.8	0.0	
100	QPSK	1	271	23.71	23.94	23.93				
100	QPSK	135	0	23.82	23.85	23.73		24.8	0.0	
100	QPSK	135	69	23.86	23.77	23.79				
100	QPSK	135	138	23.69	23.86	23.81		24.8	0.0	
100	QPSK	270	0	23.86	23.79	23.78				
100	64QAM	1	1	23.42	23.70	23.68	24.8	0.0		
100	64QAM	1	1	22.18	22.53	22.34	23.3	1.5		
100	256QAM	1	1	19.99	20.12	20.19	22.8	2.0		
Channel				648668	650000	662334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3938.01				
90	P12 BPSK	1	1	23.98	24.21	24.18	24.8	0.0		
Channel				648334	650000	662668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02				
80	P12 BPSK	1	1	23.94	24.20	24.18	24.8	0.0		
Channel				645000	650000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3840	3950.01				
60	P12 BPSK	1	1	23.92	24.18	24.20	24.8	0.0		
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3724.01	3840	3955.02				
50	P12 BPSK	1	1	23.99	24.21	24.19	24.8	0.0		
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3960				
40	P12 BPSK	1	1	23.92	24.19	24.18	24.8	0.0		
Channel				641000	650000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3840	3955.01				
30	P12 BPSK	1	1	23.99	24.20	24.17	24.8	0.0		
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3952.02				
20	P12 BPSK	1	1	23.95	24.21	24.21	24.8	0.0		



Reduced Power level 1 for Head -- UAT

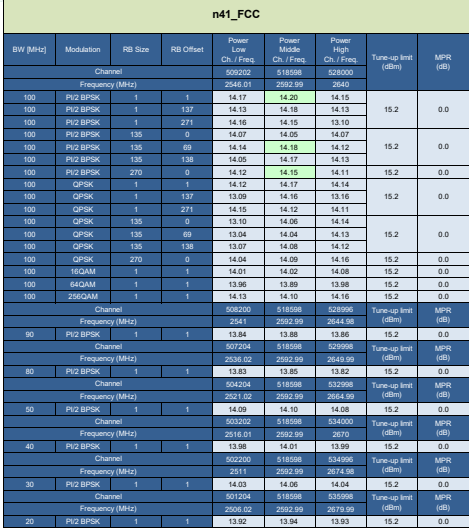
n2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	17.14	17.15	17.03	18.2	0.0
20	PI2 BPSK	1	53	16.99	16.98	17.01		
20	PI2 BPSK	1	104	17.03	16.92	16.93	18.2	0.0
20	PI2 BPSK	50	0	17.05	16.97	16.99		
20	PI2 BPSK	50	28	17.09	17.11	17.00	18.2	0.0
20	PI2 BPSK	50	56	16.94	17.00	16.96		
20	PI2 BPSK	100	0	17.05	17.06	16.97	18.2	0.0
20	QPSK	1	1	17.06	17.04	17.01		
20	QPSK	1	53	17.05	17.06	16.98	18.2	0.0
20	QPSK	1	104	16.98	16.94	16.94		
20	QPSK	50	0	16.97	17.07	16.98	18.2	0.0
20	QPSK	50	28	16.95	17.06	17.02		
20	QPSK	50	56	17.02	17.05	16.99	18.2	0.0
20	QPSK	100	0	16.97	16.99	16.94		
20	16QAM	1	1	17.00	17.01	17.01	18.2	0.0
20	64QAM	1	1	17.01	17.06	16.96		
20	256QAM	1	1	16.94	16.98	16.98	18.2	0.0
Channel				371800	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)
15	PI2 BPSK	1	1	16.97	17.06	17.00	18.2	0.0
Channel				371500	376000	381000		
Frequency (MHz)				1865	1880	1905	Tune-up limit (dBm)	MPR (dB)
10	PI2 BPSK	1	1	17.00	17.09	17.04	18.2	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1858.5	1880	1907.5	Tune-up limit (dBm)	MPR (dB)
5	PI2 BPSK	1	1	16.96	17.01	17.03	18.2	0.0

n7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	15.58	15.62	15.54	16.2	0.0
20	PI2 BPSK	1	53	15.53	15.52	15.52		
20	PI2 BPSK	1	104	15.57	15.49	15.48	16.2	0.0
20	PI2 BPSK	50	0	15.52	15.51	15.46		
20	PI2 BPSK	50	28	15.56	15.58	15.51	16.2	0.0
20	PI2 BPSK	50	56	15.46	15.55	15.48		
20	PI2 BPSK	100	0	15.52	15.58	15.49	16.2	0.0
20	QPSK	1	1	15.60	15.55	15.57		
20	QPSK	1	53	15.58	15.54	15.53	16.2	0.0
20	QPSK	1	104	15.57	15.56	15.47		
20	QPSK	50	0	15.58	15.56	15.54	16.2	0.0
20	QPSK	50	28	15.59	15.60	15.55		
20	QPSK	50	56	15.57	15.56	15.48	16.2	0.0
20	QPSK	100	0	15.56	15.57	15.54		
20	16QAM	1	1	15.59	15.61	15.53	16.2	0.0
20	64QAM	1	1	15.47	15.50	15.57		
20	256QAM	1	1	15.61	15.59	15.57	16.2	0.0
Channel				501500	507000	512000		
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)
15	PI2 BPSK	1	1	15.50	15.62	15.49	16.2	0.0
Channel				501000	507000	513500		
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)	MPR (dB)
10	PI2 BPSK	1	1	15.46	15.48	15.38	16.2	0.0
Channel				500500	507000	513600		
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)
5	PI2 BPSK	1	1	15.45	15.46	15.35	16.2	0.0



n25									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mode Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376500	381000			
Frequency (MHz)				1860	1882.5	1905			
20	PI2 BPSK	1	1	17.35	17.41	17.36	18.2	0.0	
20	PI2 BPSK	1	53	17.26	17.40	17.30			
20	PI2 BPSK	1	104	17.27	17.30	17.29			
20	PI2 BPSK	50	0	17.24	17.38	17.32	18.2	0.0	
20	PI2 BPSK	50	26	17.33	17.40	17.34	18.2	0.0	
20	PI2 BPSK	50	56	17.29	17.38	17.33	18.2	0.0	
20	PI2 BPSK	100	0	17.31	17.39	17.32			
20	QPSK	1	1	17.25	17.32	17.24			
20	QPSK	1	53	17.24	17.30	17.27	18.2	0.0	
20	QPSK	1	104	17.23	17.29	17.26			
20	QPSK	50	0	17.18	17.31	17.25	18.2	0.0	
20	QPSK	50	26	17.19	17.24	17.21	18.2	0.0	
20	QPSK	50	56	17.26	17.29	17.17	18.2	0.0	
20	QPSK	100	0	17.20	17.25	17.22			
20	16QAM	1	1	17.27	17.25	17.32	18.2	0.0	
20	64QAM	1	1	16.80	16.99	16.90	18.2	0.0	
20	256QAM	1	1	17.15	17.30	17.25	18.2	0.0	
Channel				371500	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	PI2 BPSK	1	1	17.20	17.40	17.27	18.2	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	PI2 BPSK	1	1	17.18	17.38	17.36	18.2	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.2	1882.5	1912.8			
5	PI2 BPSK	1	1	17.13	17.32	17.30	18.2	0.0	

n66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mode Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				344500	349000	354000			
Frequency (MHz)				1720	1745	1770			
20	PI2 BPSK	1	1	17.21	17.28	17.20	18.2	0.0	
20	PI2 BPSK	1	53	17.09	17.14	17.16			
20	PI2 BPSK	1	104	17.20	17.24	17.16			
20	PI2 BPSK	50	0	17.13	17.19	17.13	18.2	0.0	
20	PI2 BPSK	50	26	17.18	17.25	17.17	18.2	0.0	
20	PI2 BPSK	50	56	17.11	17.18	17.15	18.2	0.0	
20	PI2 BPSK	100	0	17.15	17.23	17.13			
20	QPSK	1	1	17.21	17.19	17.21			
20	QPSK	1	53	17.10	17.22	17.15	18.2	0.0	
20	QPSK	1	104	17.22	17.27	17.17			
20	QPSK	50	0	17.14	17.26	17.13	18.2	0.0	
20	QPSK	50	26	17.13	17.22	17.16	18.2	0.0	
20	QPSK	50	56	17.20	17.21	17.13	18.2	0.0	
20	QPSK	100	0	17.15	17.27	17.14			
20	16QAM	1	1	17.21	17.13	17.16	18.2	0.0	
20	64QAM	1	1	16.83	16.85	16.77	18.2	0.0	
20	256QAM	1	1	17.20	17.25	17.14	18.2	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	PI2 BPSK	1	1	17.16	17.24	17.23	18.2	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	PI2 BPSK	1	1	17.15	17.20	17.17	18.2	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.2	1745	1777.2			
5	PI2 BPSK	1	1	17.14	17.19	17.16	18.2	0.0	



n41(HPUe)_FCC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
	Frequency (MHz)			2540.01	516508	520999	2550.01		
100	P2/2 BPSK	1	1	14.32	14.37	14.36			
100	P2/2 BPSK	1	137	14.24	14.28	14.33	15.2	0.0	
100	P2/2 BPSK	1	273	14.28	14.31	14.34			
100	P2/2 BPSK	135	1	14.21	14.25	14.30			
100	P2/2 BPSK	135	69	14.29	14.35	14.33	15.2	0.0	
100	P2/2 BPSK	135	136	14.17	14.30	14.32			
100	P2/2 BPSK	270	0	14.27	14.32	14.31	15.2	0.0	
100	QPSK	1	1	14.30	14.25	14.31			
100	QPSK	1	137	14.26	14.28	14.27	15.2	0.0	
100	QPSK	1	273	14.30	14.33	14.34			
100	QPSK	135	0	14.27	14.23	14.28			
100	QPSK	135	69	14.21	14.26	14.27	15.2	0.0	
100	QPSK	135	136	14.26	14.32	14.32			
100	QPSK	270	0	14.26	14.28	14.28	15.2	0.0	
100	16QAM	1	1	14.09	14.11	14.12	15.2	0.0	
100	64QAM	1	1	13.71	13.97	13.73	15.2	0.0	
100	256QAM	1	1	14.02	14.04	14.03	15.2	0.0	
Channel									
	Frequency (MHz)			505200	516508	520999	Time-up limit (dBm)	MPR (dB)	
90	P2/2 BPSK	1	1	14.14	14.16	14.19	15.2	0.0	
Channel									
	Frequency (MHz)			507200	516508	520999	Time-up limit (dBm)	MPR (dB)	
80	P2/2 BPSK	1	1	14.31	14.26	14.28	15.2	0.0	
Channel									
	Frequency (MHz)			504204	516508	520998	Time-up limit (dBm)	MPR (dB)	
50	P2/2 BPSK	1	1	14.18	14.24	14.14	15.2	0.0	
Channel									
	Frequency (MHz)			505202	516508	520998	Time-up limit (dBm)	MPR (dB)	
40	P2/2 BPSK	1	1	14.16	14.21	14.19	15.2	0.0	
Channel									
	Frequency (MHz)			502200	516508	520998	Time-up limit (dBm)	MPR (dB)	
30	P2/2 BPSK	1	1	14.14	14.24	14.08	15.2	0.0	
Channel									
	Frequency (MHz)			505202	516508	520999	Time-up limit (dBm)	MPR (dB)	
20	P2/2 BPSK	1	1	14.31	14.18	14.15	15.2	0.0	

n77									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
	Frequency (MHz)			3760	3840	3920			
100	P22 BPSK	1	1	17.28	17.44	17.41			
100	P22 BPSK	1	137	17.28	17.12	17.15	18.2		0.0
100	P22 BPSK	1	271	17.28	17.36	17.32			
100	P22 BPSK	135	0	17.24	17.24	17.28			
100	P22 BPSK	135	69	17.26	17.41	17.38	18.2		0.0
100	P22 BPSK	135	138	17.17	17.34	17.15			
100	P22 BPSK	270	0	17.24	17.38	17.35	18.2		0.0
100	QPSK	1	1	17.15	17.15	17.13			
100	QPSK	1	137	17.37	17.31	17.22	18.2		0.0
100	QPSK	1	271	17.27	17.23	17.21			
100	QPSK	135	0	17.27	17.22	17.18			
100	QPSK	135	69	17.28	17.24	17.28	18.2		0.0
100	QPSK	135	138	17.18	17.32	17.05			
100	QPSK	270	0	17.21	17.19	17.21	18.2		0.0
100	16QAM	1	1	17.22	17.32	17.24	18.2		0.0
100	64QAM	1	1	17.33	17.35	17.36	18.2		0.0
100	256QAM	1	1	17.12	17.13	17.21	18.2		0.0
Channel									
	Frequency (MHz)			384688	385000	385334	Time-up limit (dBm)	MPR (dB)	
				3745.02	3840	3935.01			
90	P22 BPSK	1	1	17.22	17.30	17.27	18.2		0.0
Channel									
	Frequency (MHz)			3845334	385000	385088	Time-up limit (dBm)	MPR (dB)	
				3745.01	3840	3934.02			
80	P22 BPSK	1	1	17.33	17.34	17.27	18.2		0.0
Channel									
	Frequency (MHz)			384688	386000	386334	Time-up limit (dBm)	MPR (dB)	
				3735.02	3840	3950.01			
60	P22 BPSK	1	1	17.32	17.25	17.30	18.2		0.0
Channel									
	Frequency (MHz)			3845334	385000	385018	Time-up limit (dBm)	MPR (dB)	
				3732.01	3840	3950.02			
50	P22 BPSK	1	1	17.11	17.28	17.21	18.2		0.0
Channel									
	Frequency (MHz)			3846000	385000	384000	Time-up limit (dBm)	MPR (dB)	
				3720	3840	3940			
40	P22 BPSK	1	1	17.25	17.31	17.38	18.2		0.0
Channel									
	Frequency (MHz)			3847688	386000	386334	Time-up limit (dBm)	MPR (dB)	
				3715.02	3840	3905.01			
30	P22 BPSK	1	1	17.38	17.24	17.22	18.2		0.0
Channel									
	Frequency (MHz)			3845234	385000	384018	Time-up limit (dBm)	MPR (dB)	
				3710.01	3840	3970.02			
20	P22 BPSK	1	1	17.40	17.30	17.30	18.2		0.0



Reduced Power level 2/3 for Head -- UAT

n77							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI2 BPSK	1	1	15.64	15.74	15.71	16.7
100	PI2 BPSK	1	137	15.61	15.67	15.51	
100	PI2 BPSK	1	271	15.59	15.54	15.66	
100	PI2 BPSK	135	0	15.58	15.66	15.65	16.7
100	PI2 BPSK	135	69	15.62	15.71	15.66	
100	PI2 BPSK	135	138	15.55	15.55	15.45	
100	PI2 BPSK	270	0	15.60	15.68	15.64	16.7
100	QPSK	1	1	15.65	15.55	15.57	
100	QPSK	1	137	15.61	15.59	15.57	
100	QPSK	1	271	15.72	15.64	15.72	16.7
100	QPSK	135	0	15.63	15.71	15.70	
100	QPSK	135	69	15.64	15.59	15.66	
100	QPSK	135	138	15.59	15.52	15.52	16.7
100	QPSK	270	0	15.58	15.64	15.61	
100	ISQAM	1	1	15.59	15.61	15.56	
100	ISQAM	1	1	15.61	15.54	15.56	15.2
100	ISQAM	1	1	15.43	15.44	15.56	14.7
Channel				648668	656000	662334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3935.01	
50	PI2 BPSK	1	1	15.62	15.56	15.69	16.7
Channel				649204	656000	662669	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3940.02	
80	PI2 BPSK	1	1	15.68	15.61	15.57	16.7
Channel				648668	656000	662334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3940.01	
60	PI2 BPSK	1	1	15.71	15.57	15.56	16.7
Channel				648334	656000	663668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3955.02	
50	PI2 BPSK	1	1	15.71	15.54	15.64	16.7
Channel				649204	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI2 BPSK	1	1	15.57	15.58	15.67	16.7
Channel				647668	656000	664334	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840	3965.01	
30	PI2 BPSK	1	1	15.70	15.61	15.53	16.7
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI2 BPSK	1	1	15.64	15.54	15.70	16.7



Reduced power for Hotspot on-UAT

n2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				372000	376000	380000	
Frequency (MHz)				1865	1880	1900	
20	P1/2 BPSK	1	1	23.09	23.15	23.10	
20	P1/2 BPSK	1	53	23.08	23.12	23.04	24.0
20	P1/2 BPSK	1	104	23.05	23.07	23.00	
20	P1/2 BPSK	50	0	23.02	23.08	23.02	24.0
20	P1/2 BPSK	50	28	23.08	23.11	23.05	24.0
20	P1/2 BPSK	50	56	23.04	23.08	23.08	24.0
20	P1/2 BPSK	100	0	23.05	23.08	23.03	
20	QPSK	1	1	23.01	23.03	23.05	
20	QPSK	1	53	23.05	23.08	23.02	24.0
20	QPSK	1	104	23.00	23.01	23.01	
20	QPSK	50	0	23.10	23.13	23.04	24.0
20	QPSK	50	28	23.08	23.11	23.02	24.0
20	QPSK	50	56	23.07	23.09	23.00	24.0
20	QPSK	100	0	23.05	23.10	22.98	
20	16QAM	1	1	22.95	22.99	22.97	24.0
20	64QAM	1	1	21.85	21.44	21.42	22.5
20	256QAM	1	1	20.00	19.84	19.95	21.0
Channel				371500	376000	380500	
Frequency (MHz)				1837.5	1860	1822.5	
15	P1/2 BPSK	1	1	23.02	23.05	22.97	24.0
Channel				371000	376000	381000	
Frequency (MHz)				1865	1880	1905	
10	P1/2 BPSK	1	1	23.00	23.03	23.01	24.0
Channel				370500	376000	381500	
Frequency (MHz)				1862.5	1880	1907.5	
5	P1/2 BPSK	1	1	23.01	23.02	22.91	24.0

n7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				502000	507000	512000	
Frequency (MHz)				2510	2535	2560	
20	P1/2 BPSK	1	1	18.17	18.18	18.14	
20	P1/2 BPSK	1	53	18.16	18.15	18.12	
20	P1/2 BPSK	1	104	18.12	18.14	18.13	19.0
20	P1/2 BPSK	50	0	18.11	18.12	18.10	19.0
20	P1/2 BPSK	50	28	18.12	18.15	18.11	19.0
20	P1/2 BPSK	50	56	18.09	18.10	18.08	19.0
20	P1/2 BPSK	100	0	18.10	18.13	18.11	
20	QPSK	1	1	18.14	18.17	18.14	
20	QPSK	1	53	18.13	18.15	18.11	19.0
20	QPSK	1	104	18.10	18.13	18.08	
20	QPSK	50	0	18.15	18.12	18.13	19.0
20	QPSK	50	28	18.09	18.16	18.08	19.0
20	QPSK	50	56	18.10	18.13	18.07	19.0
20	QPSK	100	0	18.11	18.14	18.09	
20	16QAM	1	1	18.12	18.16	18.10	19.0
20	64QAM	1	1	18.08	18.11	18.07	19.0
20	256QAM	1	1	18.02	18.05	18.00	19.0
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	P1/2 BPSK	1	1	18.10	18.13	18.12	19.0
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	P1/2 BPSK	1	1	18.11	18.14	18.10	19.0
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	P1/2 BPSK	1	1	18.09	18.13	18.11	19.0



n25												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				372000	376500	381000	24.0	0.0				
Frequency (MHz)				1860	1862.5	1905						
20	PI2 BPSK	1	1	23.17	23.25	23.16						
20	PI2 BPSK	1	53	23.08	23.21	23.13						
20	PI2 BPSK	1	104	23.05	23.10	23.12	24.0	0.0				
20	PI2 BPSK	50	0	23.04	23.18	23.09						
20	PI2 BPSK	50	28	23.12	23.22	23.13						
20	PI2 BPSK	50	56	23.07	23.16	23.08						
20	PI2 BPSK	100	0	23.06	23.18	23.05	24.0	0.0				
20	QPSK	1	1	23.05	23.19	23.12						
20	QPSK	1	53	23.02	23.18	23.10						
20	QPSK	1	104	23.00	23.06	23.04						
20	QPSK	50	0	23.00	23.23	23.09	24.0	0.0				
20	QPSK	50	28	23.04	23.21	23.06						
20	QPSK	50	56	23.06	23.17	23.03						
20	QPSK	100	0	23.06	23.20	23.01						
20	16QAM	1	1	23.96	23.97	23.94	24.0	0.0				
20	16QAM	1	1	21.75	21.97	21.96						
20	256QAM	1	1	20.05	20.05	20.11						
20	256QAM	1	1	20.05	20.05	20.11						
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1837.5	1862.5	1907.5	24.0	0.0				
15	PI2 BPSK	1	1	23.08	23.12	23.11						
Channel				371000	376500	382000				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1862.5	1910				24.0	0.0	
10	PI2 BPSK	1	1	23.04	23.15	23.13						
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1862.5	1862.5	1912.5	24.0	0.0				
5	PI2 BPSK	1	1	22.89	23.03	22.91						

n66											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				344000	349000	354000	24.4	0.0			
Frequency (MHz)				1720	1745	1770					
20	PI2 BPSK	1	1	23.65	23.71	23.68					
20	PI2 BPSK	1	53	23.63	23.66	23.66					
20	PI2 BPSK	1	104	23.58	23.70	23.66	24.4	0.0			
20	PI2 BPSK	50	0	23.60	23.62	23.63					
20	PI2 BPSK	50	28	23.67	23.69	23.60					
20	PI2 BPSK	50	56	23.35	23.67	23.61					
20	PI2 BPSK	100	0	23.34	23.68	23.39	24.4	0.0			
20	QPSK	1	1	23.81	23.65	23.60					
20	QPSK	1	53	23.59	23.62	23.56					
20	QPSK	1	104	23.56	23.32	23.35					
20	QPSK	50	0	22.98	22.95	23.04	24.4	0.0			
20	QPSK	50	28	23.63	23.66	23.65					
20	QPSK	50	56	23.10	23.14	23.09					
20	QPSK	100	0	23.04	23.07	23.05					
20	16QAM	1	1	22.36	22.97	23.02	24.4	1.0			
20	16QAM	1	1	21.49	21.53	21.50					
20	256QAM	1	1	20.19	20.25	20.10					
20	256QAM	1	1	20.19	20.25	20.10					
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1717.5	1745	1772.5	24.4	0.0			
10	PI2 BPSK	1	1	23.35	23.60	23.56					
Channel				343000	349000	355000	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.4			0.0	
10	PI2 BPSK	1	1	23.53	23.61	23.57					
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1712.5	1745	1777.5	24.4	0.0			
5	PI2 BPSK	1	1	23.40	23.48	23.47					



n41_FCC								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505202	518598	528000		
Frequency (MHz)				2548.01	2592.99	2640		
100	PI2 BPSK	1	1	17.17	17.19	17.15		
100	PI2 BPSK	1	137	17.14	17.11	17.13	18.1	0.0
100	PI2 BPSK	1	271	17.09	17.15	17.10		
100	PI2 BPSK	135	0	17.13	17.12	17.12		
100	PI2 BPSK	135	69	17.15	17.16	17.14	18.1	0.0
100	PI2 BPSK	135	138	17.14	17.13	17.12		
100	PI2 BPSK	270	0	17.12	17.15	17.11	18.1	0.0
100	QPSK	1	1	17.17	17.13	17.10		
100	QPSK	1	137	17.14	17.11	17.09	18.1	0.0
100	QPSK	1	271	17.15	17.14	17.04		
100	QPSK	135	0	17.16	17.07	17.15		
100	QPSK	135	69	17.12	17.09	17.14	18.1	0.0
100	QPSK	135	138	17.13	17.13	17.11		
100	QPSK	270	0	17.16	17.10	17.10	18.1	0.0
100	16QAM	1	1	17.16	17.16	17.15	18.1	0.0
100	64QAM	1	1	17.10	17.12	17.09	18.1	0.0
100	256QAM	1	1	17.05	17.13	17.04	18.1	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2641	2692.99	2644.99		
90	PI2 BPSK	1	1	17.12	17.16	17.15	18.1	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	17.10	17.13	17.12	18.1	0.0
Channel				506204	518598	530998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	17.09	17.11	17.10	18.1	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2514.01	2592.99	2691		
40	PI2 BPSK	1	1	17.05	17.10	17.09	18.1	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2511	2592.99	2674.98		
30	PI2 BPSK	1	1	17.10	17.13	17.11	18.1	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI2 BPSK	1	1	17.06	17.11	17.08	18.1	0.0

n41(HPUE)_FCC								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2548.01	2592.99	2640		
100	PI2 BPSK	1	1	17.13	17.18	17.10		
100	PI2 BPSK	1	137	17.10	17.09	17.08	18.1	0.0
100	PI2 BPSK	1	271	17.11	17.10	17.11		
100	PI2 BPSK	135	0	17.02	17.04	17.07		
100	PI2 BPSK	135	69	17.06	17.08	17.05	18.1	0.0
100	PI2 BPSK	135	138	17.07	17.07	17.02		
100	PI2 BPSK	270	0	17.03	17.05	17.00	18.1	0.0
100	QPSK	1	1	17.13	17.11	17.06		
100	QPSK	1	137	17.12	17.10	17.02	18.1	0.0
100	QPSK	1	271	17.08	17.09	17.03		
100	QPSK	135	0	17.09	17.04	17.03		
100	QPSK	135	69	17.05	17.09	17.00	18.1	0.0
100	QPSK	135	138	17.00	17.03	16.99		
100	QPSK	270	0	17.09	17.10	17.02	18.1	0.0
100	16QAM	1	1	17.12	17.15	17.11	18.1	0.0
100	64QAM	1	1	17.07	17.11	17.08	18.1	0.0
100	256QAM	1	1	17.06	17.08	17.05	18.1	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2641	2592.99	2644.98		
90	PI2 BPSK	1	1	17.13	17.15	17.12	18.1	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	17.14	17.13	17.08	18.1	0.0
Channel				506204	518598	530998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	17.11	17.12	17.09	18.1	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2516.01	2592.99	2691		
40	PI2 BPSK	1	1	17.14	17.16	17.13	18.1	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2511	2592.99	2674.98		
30	PI2 BPSK	1	1	17.09	17.13	17.14	18.1	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI2 BPSK	1	1	17.15	17.14	17.16	18.1	0.0

n77								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	666000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	19.28	19.55	19.48		
100	PI2 BPSK	1	137	19.18	19.52	19.26	20.6	0.0
100	PI2 BPSK	1	271	19.10	19.37	19.25		
100	PI2 BPSK	135	0	19.02	19.35	19.28		
100	PI2 BPSK	135	69	19.25	19.52	19.45	20.6	0.0
100	PI2 BPSK	135	138	19.12	19.13	19.15		
100	PI2 BPSK	270	0	19.23	19.50	19.44	20.6	0.0
100	QPSK	1	1	19.26	19.40	19.27		
100	QPSK	1	137	19.07	19.14	19.21	20.6	0.0
100	QPSK	1	271	19.03	19.16	19.15		
100	QPSK	135	0	19.07	19.10	18.98		
100	QPSK	135	69	19.11	19.02	19.04	20.6	0.0
100	QPSK	135	138	19.04	19.11	19.06		
100	QPSK	270	0	19.13	19.04	19.03	20.6	0.0
100	16QAM	1	1	19.71	19.50	19.57	20.6	0.0
100	64QAM	1	1	19.67	19.32	19.13	20.6	0.0
100	256QAM	1	1	19.06	19.21	19.08	21.6	0.0
Channel				649698	666000	662334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3745.02	3840	3935.01		
90	PI2 BPSK	1	1	19.25	19.50	19.49	20.6	0.0
Channel				648334	666000	662698	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3840	3940.02		
80	PI2 BPSK	1	1	19.23	19.49	19.47	20.6	0.0
Channel				647698	666000	663334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.02	3840	3950.01		
60	PI2 BPSK	1	1	19.24	19.46	19.45	20.6	0.0
Channel				648334	666000	663998	Tune-up limit (dBm)	MPR
Frequency (MHz)				3725.01	3840	3955.02		
50	PI2 BPSK	1	1	19.26	19.51	19.48	20.6	0.0
Channel				648000	666000	664000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	19.25	19.47	19.45	20.6	0.0
Channel				647698	666000	664334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3840	3965.01		
30	PI2 BPSK	1	1	19.20	19.48	19.44	20.6	0.0
Channel				647334	666000	664698	Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3840	3970.02		
20	PI2 BPSK	1	1	19.21	19.44	19.43	20.6	0.0



Full Power Mode - LAT

n2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	24.02	24.06	24.00			
20	PI2 BPSK	1	53	23.97	24.03	23.99			
20	PI2 BPSK	1	104	24.00	24.01	23.96	24.8	0.0	
20	PI2 BPSK	50	0	23.43	23.54	23.32	24.3	0.5	
20	PI2 BPSK	50	26	23.97	24.02	23.95	24.8	0.0	
20	PI2 BPSK	50	56	23.50	23.54	23.50	24.3	0.5	
20	PI2 BPSK	100	0	23.48	23.51	23.43	24.3	0.5	
20	QPSK	1	1	24.01	23.99	23.97	24.8	0.0	
20	QPSK	1	53	24.03	24.00	24.05			
20	QPSK	1	104	24.05	24.05	24.02			
20	QPSK	50	0	23.97	23.01	22.90			
20	QPSK	50	26	23.97	24.05	24.01	24.8	0.0	
20	QPSK	50	56	22.93	23.04	23.01	23.8	1.0	
20	QPSK	100	0	22.97	23.05	23.00	23.8	1.0	
20	16QAM	1	1	23.31	23.02	23.20	23.8	1.0	
20	16QAM	1	1	21.48	21.34	21.40	22.3	2.5	
20	256QAM	1	1	19.27	19.47	19.23	20.3	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1937.5	1940	1927.5	(dBm)	(dB)	
15	PI2 BPSK	1	1	23.97	24.01	23.03	24.8	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1860	1905	(dBm)	(dB)	
10	PI2 BPSK	1	1	23.83	23.89	23.85	24.8	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1860	1907.5	(dBm)	(dB)	
5	PI2 BPSK	1	1	23.84	23.93	23.85	24.8	0.0	

n5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	23.73	23.79	23.73			
20	PI2 BPSK	1	53	23.67	23.64	23.69			
20	PI2 BPSK	1	104	23.60	23.54	23.58	24.3	0.0	
20	PI2 BPSK	50	0	23.17	23.10	23.15	23.8	0.5	
20	PI2 BPSK	50	26	23.68	23.70	23.65	24.3	0.0	
20	PI2 BPSK	50	56	23.15	23.07	23.06	23.8	0.5	
20	PI2 BPSK	100	0	23.12	23.15	23.10	23.8	0.5	
20	QPSK	1	1	23.73	23.67	23.60	24.3	0.0	
20	QPSK	1	53	23.70	23.74	23.59			
20	QPSK	1	104	23.66	23.61	23.46			
20	QPSK	50	0	23.63	23.66	23.72			
20	QPSK	50	26	23.60	23.55	23.61	24.3	0.0	
20	QPSK	50	56	23.64	22.67	22.98	23.3	1.0	
20	QPSK	100	0	23.70	22.70	22.67	23.3	1.0	
20	16QAM	1	1	22.81	22.46	22.49	23.8	1.0	
20	16QAM	1	1	21.05	21.04	20.71	21.8	2.5	
20	256QAM	1	1	18.97	18.82	18.86	19.8	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	PI2 BPSK	1	1	23.65	23.69	23.63	24.3	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	PI2 BPSK	1	1	23.60	23.62	23.58	24.3	0.0	
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)	
5	PI2 BPSK	1	1	23.65	23.67	23.64	24.3	0.0	

n7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	24.08	24.15	24.05			
20	PI2 BPSK	1	53	23.99	24.08	24.03			
20	PI2 BPSK	1	104	24.08	24.08	24.01	24.8	0.0	
20	PI2 BPSK	50	0	23.46	23.58	23.49	24.3	0.5	
20	PI2 BPSK	50	26	24.02	24.10	24.00	24.8	0.0	
20	PI2 BPSK	50	56	23.45	23.58	23.47	24.3	0.5	
20	PI2 BPSK	100	0	23.45	23.60	23.47	24.3	0.5	
20	QPSK	1	1	24.11	24.07	24.11	24.8	0.0	
20	QPSK	1	53	24.10	24.02	24.13			
20	QPSK	1	104	24.12	24.05	24.06			
20	QPSK	50	0	23.05	23.12	23.03			
20	QPSK	50	26	24.03	24.05	24.05	24.8	0.0	
20	QPSK	50	56	22.88	23.10	23.04	23.8	1.0	
20	QPSK	100	0	22.99	23.05	23.05	23.8	1.0	
20	16QAM	1	1	22.34	22.12	22.46	23.8	1.0	
20	16QAM	1	1	21.07	21.31	21.53	22.3	2.5	
20	256QAM	1	1	19.33	19.23	19.37	20.3	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	PI2 BPSK	1	1	24.03	24.10	24.06	24.8	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	
10	PI2 BPSK	1	1	24.04	24.08	24.03	24.8	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
5	PI2 BPSK	1	1	24.05	24.09	24.01	24.8	0.0	



n25							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	
Channel				372000	376000	381000	
Frequency (MHz)				1860	1862.5	1905	
20	P1/2 BPSK	1	1	23.02	24.06	24.01	
20	P1/2 BPSK	1	53	23.86	24.05	23.99	24.8
20	P1/2 BPSK	1	104	23.83	23.95	23.89	
20	P1/2 BPSK	50	0	23.21	23.43	23.41	24.3
20	P1/2 BPSK	50	28	23.89	24.03	23.95	24.8
20	P1/2 BPSK	50	56	23.26	23.47	23.37	
20	P1/2 BPSK	100	0	23.38	23.52	23.44	24.3
20	QPSK	1	1	23.78	23.99	23.98	
20	QPSK	1	53	23.93	23.96	24.00	24.8
20	QPSK	1	104	23.92	23.98	23.42	
20	QPSK	50	0	22.79	22.97	22.86	23.8
20	QPSK	50	28	23.80	24.01	24.00	24.8
20	QPSK	50	56	22.74	22.96	22.91	
20	QPSK	100	0	22.76	23.00	23.00	23.8
20	16QAM	1	1	21.07	22.89	21.86	23.8
20	16QAM	1	1	21.25	21.21	21.44	22.3
20	256QAM	1	1	19.21	19.51	19.35	20.3
Channel				371500	376500	381500	
Frequency (MHz)				1857.5	1862.5	1907.5	
15	P1/2 BPSK	1	1	23.83	23.07	23.93	24.8
Channel				371000	376000	382000	
Frequency (MHz)				1865	1862.5	1910	
10	P1/2 BPSK	1	1	23.84	24.00	23.95	24.8
Channel				370500	376000	382000	
Frequency (MHz)				1862.5	1862.5	1912.5	
5	P1/2 BPSK	1	1	23.80	23.93	23.91	24.8

n66							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	P1/2 BPSK	1	1	24.07	24.09	24.00	
20	P1/2 BPSK	1	53	23.95	23.94	23.94	24.8
20	P1/2 BPSK	1	104	24.03	23.97	23.91	
20	P1/2 BPSK	50	0	23.50	23.47	23.43	24.3
20	P1/2 BPSK	50	28	24.00	24.03	23.97	24.8
20	P1/2 BPSK	50	56	23.43	23.43	23.40	
20	P1/2 BPSK	100	0	23.41	23.44	23.37	24.3
20	QPSK	1	1	24.03	24.02	23.21	
20	QPSK	1	53	23.93	23.94	23.78	24.8
20	QPSK	1	104	23.37	23.38	23.95	
20	QPSK	50	0	23.04	23.01	23.37	23.8
20	QPSK	50	28	23.90	23.95	23.85	24.8
20	QPSK	50	56	22.73	22.92	22.88	
20	QPSK	100	0	22.94	22.97	22.57	23.8
20	16QAM	1	1	21.37	21.01	22.21	23.8
20	16QAM	1	1	21.44	21.22	20.38	22.3
20	256QAM	1	1	19.47	19.53	19.83	20.3
Channel				343500	349000	354000	
Frequency (MHz)				1717.5	1745	1772.5	
15	P1/2 BPSK	1	1	23.94	24.06	23.96	24.8
Channel				343000	349000	353000	
Frequency (MHz)				1715	1745	1775	
10	P1/2 BPSK	1	1	23.95	24.03	23.94	24.8
Channel				342500	349000	353000	
Frequency (MHz)				1712.5	1745	1777.5	
5	P1/2 BPSK	1	1	23.90	24.00	23.93	24.8

n71							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	P1/2 BPSK	1	1	24.06	24.08	23.93	
20	P1/2 BPSK	1	53	23.96	23.84	23.83	24.8
20	P1/2 BPSK	1	104	23.84	23.73	23.55	
20	P1/2 BPSK	50	0	23.44	23.40	23.34	24.3
20	P1/2 BPSK	50	28	23.99	24.02	23.88	24.8
20	P1/2 BPSK	50	56	23.46	23.24	23.19	
20	P1/2 BPSK	100	0	23.42	23.47	23.36	24.3
20	QPSK	1	1	24.04	24.05	24.02	
20	QPSK	1	53	23.93	23.94	23.77	24.8
20	QPSK	1	104	23.88	23.80	23.71	
20	QPSK	50	0	23.17	22.91	22.87	23.8
20	QPSK	50	28	23.96	23.84	23.75	24.8
20	QPSK	50	56	22.98	22.88	22.74	
20	QPSK	100	0	23.01	22.88	22.76	23.8
20	16QAM	1	1	21.31	22.86	20.83	23.8
20	16QAM	1	1	21.41	21.28	21.07	22.3
20	256QAM	1	1	19.44	19.27	19.19	20.3
Channel				134100	136100	138100	
Frequency (MHz)				670.5	680.5	690.5	
15	P1/2 BPSK	1	1	23.91	23.94	23.87	24.8
Channel				133600	136100	138600	
Frequency (MHz)				668	680.5	693	
10	P1/2 BPSK	1	1	23.82	23.83	23.78	24.8
Channel				133100	136100	139100	
Frequency (MHz)				665.5	680.5	695.5	
5	P1/2 BPSK	1	1	23.85	23.88	23.82	24.8



n41_FCC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	23.98	24.00	23.94		
100	PI2 BPSK	1	137	23.89	23.96	23.84	24.8	0.0
100	PI2 BPSK	1	271	23.82	23.97	23.83		
100	PI2 BPSK	135	0	23.77	23.91	23.89		
100	PI2 BPSK	135	69	23.91	23.95	23.93	24.8	0.0
100	PI2 BPSK	135	135	23.90	23.93	23.89		
100	PI2 BPSK	270	0	23.88	23.92	23.90	24.8	0.0
100	QPSK	1	1	23.85	23.93	23.92		
100	QPSK	1	137	23.97	23.98	23.98	24.8	0.0
100	QPSK	1	271	23.98	23.93	23.97		
100	QPSK	135	0	23.25	23.40	23.48		
100	QPSK	135	69	23.91	23.96	23.95	24.8	0.0
100	QPSK	135	135	23.41	23.40	23.62		
100	QPSK	270	0	23.36	23.40	23.60	24.8	0.0
100	16QAM	1	1	23.15	23.10	23.14	24.3	0.5
100	64QAM	1	1	21.72	21.89	21.75	22.8	2.0
100	256QAM	1	1	19.77	19.74	19.76	20.9	4.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	PI2 BPSK	1	1	23.92	23.95	23.90	24.8	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	23.83	23.88	23.82	24.8	0.0
Channel				506204	518598	530998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	23.87	23.93	23.85	24.8	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI2 BPSK	1	1	23.91	23.98	23.90	24.8	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI2 BPSK	1	1	23.94	23.97	23.95	24.8	0.0
Channel				501204	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI2 BPSK	1	1	23.93	23.96	23.92	24.8	0.0

n41(HPUE)_FCC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	25.84	26.00	25.94		
100	PI2 BPSK	1	137	25.78	25.90	25.91	26.8	0.0
100	PI2 BPSK	1	271	25.75	25.99	25.84		
100	PI2 BPSK	135	0	25.63	25.85	25.82		
100	PI2 BPSK	135	69	25.81	25.94	25.90	26.8	0.0
100	PI2 BPSK	135	135	25.77	25.94	25.86		
100	PI2 BPSK	270	0	25.80	25.90	25.88	26.8	0.0
100	QPSK	1	1	25.66	25.89	25.77		
100	QPSK	1	137	25.83	25.97	25.95	26.8	0.0
100	QPSK	1	271	25.71	25.99	25.98		
100	QPSK	135	0	25.18	25.44	25.21		
100	QPSK	135	69	25.77	25.98	25.99	26.8	0.0
100	QPSK	135	135	25.40	25.00	25.45		
100	QPSK	270	0	25.38	25.33	25.32	26.8	0.0
100	16QAM	1	1	25.18	25.20	24.45	26.3	0.5
100	64QAM	1	1	23.50	23.90	22.89	24.3	2.5
100	256QAM	1	1	21.41	21.76	21.47	22.3	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	PI2 BPSK	1	1	25.81	25.95	25.85	26.8	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	25.77	25.87	25.80	26.8	0.0
Channel				506204	518598	530998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	25.84	25.98	25.90	26.8	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI2 BPSK	1	1	25.80	25.92	25.84	26.8	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI2 BPSK	1	1	25.83	25.93	25.88	26.8	0.0
Channel				501204	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI2 BPSK	1	1	25.81	25.95	25.87	26.8	0.0



Reduced power for Hotspot on-LAT

n2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	21.5	0.0
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	20.54	20.56	20.43		
20	PI2 BPSK	1	53	20.51	20.50	20.42	21.5	0.0
20	PI2 BPSK	1	104	20.49	20.48	20.40		
20	PI2 BPSK	50	0	20.40	20.42	20.33		
20	PI2 BPSK	50	28	20.42	20.48	20.40	21.5	0.0
20	PI2 BPSK	50	56	20.45	20.46	20.39		
20	PI2 BPSK	100	0	20.40	20.45	20.37		
20	QPSK	1	1	20.49	20.52	20.53	21.5	0.0
20	QPSK	1	53	20.47	20.50	20.48		
20	QPSK	1	104	20.45	20.48	20.49		
20	QPSK	50	0	20.50	20.52	20.48	21.5	0.0
20	QPSK	50	28	20.48	20.51	20.50		
20	QPSK	50	56	20.46	20.48	20.47		
20	QPSK	100	0	20.47	20.52	20.46	21.5	0.0
20	16QAM	1	1	20.48	20.45	20.50		
20	64QAM	1	1	20.50	20.53	20.54		
20	256QAM	1	1	20.05	20.12	20.08	21.5	0.0
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1860	1862.5		
15	PI2 BPSK	1	1	20.44	20.50	20.48	21.5	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1865	1880	1905		
10	PI2 BPSK	1	1	20.45	20.49	20.46	21.5	0.0
Channel				370500	375000	380000		
Frequency (MHz)				1862.5	1880	1907.5		
5	PI2 BPSK	1	1	20.41	20.42	20.40	21.5	0.0

n7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000	21.0	0.0
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	20.18	20.20	20.14		
20	PI2 BPSK	1	53	20.15	20.16	20.13	21.0	0.0
20	PI2 BPSK	1	104	20.14	20.15	20.12		
20	PI2 BPSK	50	0	20.11	20.14	20.06		
20	PI2 BPSK	50	28	20.15	20.18	20.11	21.0	0.0
20	PI2 BPSK	50	56	20.13	20.07	20.01		
20	PI2 BPSK	100	0	20.13	20.16	20.09		
20	QPSK	1	1	20.12	20.18	20.15	21.0	0.0
20	QPSK	1	53	20.10	20.14	20.13		
20	QPSK	1	104	20.13	20.12	20.10		
20	QPSK	50	0	20.12	20.15	20.16	21.0	0.0
20	QPSK	50	28	20.14	20.14	20.12		
20	QPSK	50	56	19.85	20.02	20.01		
20	QPSK	100	0	19.89	20.11	20.10	21.0	0.0
20	16QAM	1	1	20.10	20.10	20.11		
20	64QAM	1	1	20.05	20.08	20.04		
20	256QAM	1	1	20.12	20.17	20.13	21.0	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	PI2 BPSK	1	1	20.14	20.15	20.13	21.0	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	PI2 BPSK	1	1	20.11	20.12	20.09	21.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	PI2 BPSK	1	1	20.09	20.11	20.09	21.0	0.0



n25									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376500	381500			
Frequency (MHz)				1860	1882.5	1905			
20	PI2 BPSK	1	1	20.41	20.56	20.49	21.5	0.0	
20	PI2 BPSK	1	53	20.35	20.50	20.43			
20	PI2 BPSK	1	104	20.36	20.42	20.42			
20	PI2 BPSK	50	0	20.33	20.51	20.45	21.5	0.0	
20	PI2 BPSK	50	28	20.40	20.54	20.47	21.5	0.0	
20	PI2 BPSK	50	86	20.32	20.47	20.39	21.5	0.0	
20	PI2 BPSK	100	0	20.38	20.52	20.45			
20	QPSK	1	1	20.40	20.47	20.43			
20	QPSK	1	53	20.43	20.50	20.46	21.5	0.0	
20	QPSK	1	104	20.52	20.59	20.44	21.5	0.0	
20	QPSK	50	0	20.41	20.51	20.50			
20	QPSK	50	28	20.40	20.49	20.48			
20	QPSK	50	56	20.41	20.48	20.45	21.5	0.0	
20	QPSK	100	0	20.44	20.50	20.44	21.5	0.0	
20	16QAM	1	1	20.36	20.41	20.38			
20	64QAM	1	1	20.40	20.49	20.50			
20	256QAM	1	1	20.05	20.10	20.08	21.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1877.5	1892.5	1907.5			
15	PI2 BPSK	1	1	20.46	20.49	20.44	21.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1910			
10	PI2 BPSK	1	1	20.37	20.42	20.39	21.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	PI2 BPSK	1	1	20.40	20.41	20.38	21.5	0.0	

n66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mode Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				344000	348000	354000			
Frequency (MHz)				1720	1745	1770			
20	PI2 BPSK	1	1	20.07	20.14	20.03	21.0	0.0	
20	PI2 BPSK	1	53	20.03	20.04	19.97			
20	PI2 BPSK	1	104	20.01	20.06	19.96			
20	PI2 BPSK	50	0	19.99	19.97	19.98	21.0	0.0	
20	PI2 BPSK	50	28	20.05	20.11	20.00	21.0	0.0	
20	PI2 BPSK	50	56	19.97	20.01	19.91	21.0	0.0	
20	PI2 BPSK	100	0	20.02	20.09	19.97			
20	QPSK	1	1	20.01	20.09	20.00			
20	QPSK	1	53	20.06	20.11	19.97	21.0	0.0	
20	QPSK	1	104	20.00	20.03	19.99	21.0	0.0	
20	QPSK	50	0	20.03	20.10	20.02			
20	QPSK	50	28	19.92	20.02	19.96			
20	QPSK	50	56	19.91	20.00	19.95	21.0	0.0	
20	QPSK	100	0	20.01	20.07	19.98	21.0	0.0	
20	16QAM	1	1	19.96	20.01	19.96			
20	64QAM	1	1	20.01	20.09	19.96			
20	256QAM	1	1	20.08	20.10	19.84	21.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	PI2 BPSK	1	1	19.94	19.90	19.95	21.0	0.0	
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	PI2 BPSK	1	1	19.85	19.84	19.82	21.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	PI2 BPSK	1	1	19.86	19.88	19.85	21.0	0.0	



n41_FCC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.20	20.25	20.19		
100	PI2 BPSK	1	137	20.19	20.20	20.16	21.2	0.0
100	PI2 BPSK	1	271	20.17	20.21	20.14		
100	PI2 BPSK	135	0	20.15	20.17	20.13		
100	PI2 BPSK	135	69	20.18	20.22	20.16	21.2	0.0
100	PI2 BPSK	135	138	20.14	20.16	20.13		
100	PI2 BPSK	270	0	20.15	20.20	20.13	21.2	0.0
100	QPSK	1	1	20.13	20.16	20.12		
100	QPSK	1	137	20.12	20.14	20.11	21.2	0.0
100	QPSK	1	271	20.10	20.13	20.10		
100	QPSK	135	0	20.11	20.15	20.13		
100	QPSK	135	69	20.13	20.16	20.12	21.2	0.0
100	QPSK	135	138	20.11	20.14	20.09		
100	QPSK	270	0	20.09	20.17	20.13	21.2	0.0
100	16QAM	1	1	20.14	20.15	20.09	21.2	0.0
100	64QAM	1	1	20.12	20.14	20.10	21.2	0.0
100	256QAM	1	1	19.89	20.00	19.96	21.2	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	PI2 BPSK	1	1	19.99	19.98	20.11	21.2	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	19.98	19.99	20.04	21.2	0.0
Channel				506204	518598	530998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	19.99	19.98	19.96	21.2	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI2 BPSK	1	1	20.05	20.06	20.02	21.2	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI2 BPSK	1	1	20.00	20.08	20.03	21.2	0.0
Channel				501204	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI2 BPSK	1	1	20.01	19.97	19.93	21.2	0.0

n41(HPUE)_FCC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.13	20.16	20.11		
100	PI2 BPSK	1	137	20.11	20.13	20.06	21.2	0.0
100	PI2 BPSK	1	271	20.09	20.14	20.08		
100	PI2 BPSK	135	0	20.07	20.10	20.06		
100	PI2 BPSK	135	69	20.10	20.12	20.09	21.2	0.0
100	PI2 BPSK	135	138	20.08	20.07	20.07		
100	PI2 BPSK	270	0	20.08	20.10	20.07	21.2	0.0
100	QPSK	1	1	20.06	20.11	20.04		
100	QPSK	1	137	20.03	20.05	20.11	21.2	0.0
100	QPSK	1	271	20.04	20.07	20.10		
100	QPSK	135	0	20.08	20.10	20.08		
100	QPSK	135	69	20.06	20.09	20.06	21.2	0.0
100	QPSK	135	138	20.05	20.07	20.05		
100	QPSK	270	0	20.02	20.06	20.04	21.2	0.0
100	16QAM	1	1	20.06	20.10	20.03	21.2	0.0
100	64QAM	1	1	20.06	20.09	20.07	21.2	0.0
100	256QAM	1	1	20.05	20.06	20.03	21.2	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	PI2 BPSK	1	1	20.06	20.11	20.07	21.2	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	20.04	20.07	20.05	21.2	0.0
Channel				506204	518598	530998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	20.02	20.09	20.05	21.2	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI2 BPSK	1	1	20.04	20.05	20.02	21.2	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI2 BPSK	1	1	20.04	20.06	20.03	21.2	0.0
Channel				501204	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI2 BPSK	1	1	20.00	20.04	20.01	21.2	0.0



Reduced power for Sensor on-LAT

n2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				372000	376000	380000	
Frequency (MHz)				1805	1880	1905	
20	PI2 BPSK	1	1	20.03	20.04	19.92	
20	PI2 BPSK	1	53	20.00	20.01	19.90	21.3
20	PI2 BPSK	1	104	19.96	19.97	19.89	
20	PI2 BPSK	50	0	19.97	19.98	19.87	0.0
20	PI2 BPSK	50	28	20.00	20.01	19.90	21.3
20	PI2 BPSK	50	56	19.94	19.97	19.86	
20	PI2 BPSK	100	0	19.98	19.99	19.88	21.3
20	QPSK	1	1	19.95	20.02	19.90	
20	QPSK	1	53	19.94	19.97	19.88	21.3
20	QPSK	1	104	19.90	19.92	19.86	
20	QPSK	50	0	19.93	19.97	19.80	21.3
20	QPSK	50	28	19.92	19.95	19.87	21.3
20	QPSK	50	56	19.90	19.96	19.86	
20	QPSK	100	0	19.97	19.99	19.88	21.3
20	16QAM	1	1	19.98	19.99	19.95	21.3
20	64QAM	1	1	19.99	20.01	19.90	21.3
20	256QAM	1	1	19.98	20.00	19.93	21.3
Channel				371500	376000	380500	
Frequency (MHz)				1807.5	1880	1907.5	
15	PI2 BPSK	1	1	19.99	20.00	19.93	21.3
Channel				371000	376000	381000	
Frequency (MHz)				1805	1880	1905	
10	PI2 BPSK	1	1	19.96	19.98	19.90	21.3
Channel				370500	376000	381500	
Frequency (MHz)				1802.5	1880	1907.5	
5	PI2 BPSK	1	1	19.92	19.95	19.88	21.3

n7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				502000	507000	512000	
Frequency (MHz)				2510	2535	2560	
20	PI2 BPSK	1	1	18.83	18.87	18.80	
20	PI2 BPSK	1	53	18.82	18.85	18.78	19.8
20	PI2 BPSK	1	104	18.80	18.80	18.75	
20	PI2 BPSK	50	0	18.77	18.82	18.73	19.8
20	PI2 BPSK	50	28	18.81	18.85	18.78	19.8
20	PI2 BPSK	50	56	18.76	18.80	18.73	
20	PI2 BPSK	100	0	18.79	18.82	18.75	19.8
20	QPSK	1	1	18.75	18.83	18.79	
20	QPSK	1	53	18.73	18.79	18.77	19.8
20	QPSK	1	104	18.69	18.70	18.67	
20	QPSK	50	0	18.76	18.81	18.81	19.8
20	QPSK	50	28	18.80	18.82	18.79	19.8
20	QPSK	50	56	18.81	18.80	18.78	
20	QPSK	100	0	18.87	18.81	18.79	19.8
20	16QAM	1	1	18.73	18.80	18.78	19.8
20	64QAM	1	1	18.72	18.77	18.72	19.8
20	256QAM	1	1	18.80	18.81	18.76	19.8
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	PI2 BPSK	1	1	18.80	18.82	18.79	19.8
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	PI2 BPSK	1	1	18.75	18.78	18.75	19.8
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	PI2 BPSK	1	1	18.73	18.76	18.71	19.8



n25											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				372000	376500	381000	21.3	0.0			
Frequency (MHz)				1860	1862.5	1905					
20	PI2 BPSK	1	1	19.93	20.09	20.02					
20	PI2 BPSK	1	53	19.90	20.07	19.99					
20	PI2 BPSK	1	104	19.91	20.04	20.00	21.3	0.0			
20	PI2 BPSK	50	0	19.83	20.03	19.98					
20	PI2 BPSK	50	28	19.90	20.07	19.99					
20	PI2 BPSK	50	56	19.92	19.99	19.90					
20	PI2 BPSK	100	0	19.88	20.05	19.97	21.3	0.0			
20	QPSK	1	1	19.93	20.02	19.97					
20	QPSK	1	53	19.92	20.01	19.96					
20	QPSK	1	104	19.91	19.99	19.94					
20	QPSK	50	0	19.86	19.95	19.96	21.3	0.0			
20	QPSK	50	28	19.86	19.97	19.95					
20	QPSK	50	56	19.87	19.96	19.92					
20	QPSK	100	0	19.86	20.03	19.96					
20	16QAM	1	1	19.96	20.05	20.01	21.3	0.0			
20	64QAM	1	1	19.91	20.02	19.92					
20	256QAM	1	1	19.98	19.65	19.82					
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1872.5	1892.5	1927.5	21.3	0.0			
15	PI2 BPSK	1	1	20.00	20.07	20.03					
Channel				371000	376500	382000	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				1865	1862.5	1910	21.3			0.0	
10	PI2 BPSK	1	1	19.97	20.03	19.96					
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1862.5	1862.5	1912.5	21.3	0.0			
5	PI2 BPSK	1	1	19.95	19.98	19.94					

n66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				344000	349000	354000	22.0	0.0	
Frequency (MHz)				1720	1745	1770			
20	PI2 BPSK	1	1	21.03	21.06	21.01			
20	PI2 BPSK	1	53	21.01	21.04	20.96			
20	PI2 BPSK	1	104	20.96	21.03	20.92	22.0	0.0	
20	PI2 BPSK	50	0	20.91	21.01	20.91			
20	PI2 BPSK	50	28	21.00	21.03	20.97			
20	PI2 BPSK	50	56	20.93	20.99	20.88			
20	PI2 BPSK	100	0	20.97	21.02	20.95	22.0	0.0	
20	QPSK	1	1	20.95	21.05	20.95			
20	QPSK	1	53	20.97	21.04	20.89			
20	QPSK	1	104	20.98	21.03	20.86			
20	QPSK	50	0	20.92	21.01	20.92	22.0	0.0	
20	QPSK	50	28	20.88	21.00	20.93			
20	QPSK	50	56	20.87	20.98	20.92			
20	QPSK	100	0	20.94	21.02	20.92			
20	16QAM	1	1	20.97	21.04	20.97	22.0	0.0	
20	64QAM	1	1	20.91	21.01	20.87			
20	256QAM	1	1	20.96	21.00	20.73			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1740	1772.5	22.0	0.0	
15	PI2 BPSK	1	1	20.98	21.00	20.98			
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	22.0	0.0	
10	PI2 BPSK	1	1	20.96	20.98	20.97			
Channel				342500	349000	350500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	22.0	0.0	
5	PI2 BPSK	1	1	20.98	21.01	21.00			



n41_FCC										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				509202	518598	528000				
Frequency (MHz)				2544.01	2592.99	2640				
100	PV2 BPSK	1	1	19.09	19.10	19.07		20.2	0.0	
100	PV2 BPSK	1	137	19.05	19.08	19.03				
100	PV2 BPSK	1	271	19.01	19.07	18.99		20.2	0.0	
100	PV2 BPSK	135	0	18.98	19.02	18.97				
100	PV2 BPSK	135	69	19.06	19.07	19.04				
100	PV2 BPSK	135	138	18.95	18.99	18.95				
100	PV2 BPSK	270	0	19.02	19.04	19.00	20.2	0.0	0.0	
100	QPSK	1	1	19.04	19.09	19.04				
100	QPSK	1	137	19.03	19.07	19.03	20.2	0.0	0.0	
100	QPSK	1	271	19.00	19.05	19.01				
100	QPSK	135	0	19.00	19.06	19.03		20.2	0.0	
100	QPSK	135	69	18.99	19.04	18.99				
100	QPSK	135	138	18.97	19.02	18.96				
100	QPSK	270	0	18.90	19.00	18.95	20.2			
100	16QAM	1	1	19.02	19.05	18.98	20.2	0.0	0.0	
100	64QAM	1	1	18.98	19.02	18.97	20.2			
100	256QAM	1	1	19.02	19.03	19.00	20.2			
Channel				508200	518598	528998	Tune-up limit	MPR		
Frequency (MHz)				2541	2592.99	2644.98	20.2	0.0		
90	PV2 BPSK	1	1	19.05	19.08	19.06	20.2	0.0		
Channel				507204	518598	528998	Tune-up limit	MPR		
Frequency (MHz)				2538.02	2592.99	2643.99	20.2	0.0		
80	PV2 BPSK	1	1	19.06	19.07	19.04	20.2	0.0		
Channel				504204	518598	530998	Tune-up limit	MPR		
Frequency (MHz)				2522.02	2592.99	2674.98	20.2	0.0		
90	PV2 BPSK	1	1	18.99	19.03	19.00	20.2	0.0		
Channel				503202	518598	530000	Tune-up limit	MPR		
Frequency (MHz)				2516.01	2592.99	2670	20.2	0.0		
40	PV2 BPSK	1	1	18.90	19.00	18.95	20.2	0.0		
Channel				502200	518598	530998	Tune-up limit	MPR		
Frequency (MHz)				2511	2592.99	2674.98	20.2	0.0		
30	PV2 BPSK	1	1	18.94	18.98	18.95	20.2	0.0		
Channel				501204	518598	530998	Tune-up limit	MPR		
Frequency (MHz)				2504.02	2592.99	2678.98	20.2	0.0		
20	PV2 BPSK	1	1	18.98	19.00	18.99	20.2	0.0		

n41(HPUE)_FCC										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				509202	518598	528000				
Frequency (MHz)				2544.01	2592.99	2640				
100	PV2 BPSK	1	1	19.08	19.10	19.05		20.2	0.0	
100	PV2 BPSK	1	137	19.05	19.09	19.01				
100	PV2 BPSK	1	271	18.99	19.06	18.99		20.2	0.0	
100	PV2 BPSK	135	0	19.02	19.06	19.02				
100	PV2 BPSK	135	69	19.03	19.07	19.01				
100	PV2 BPSK	135	138	19.02	19.03	19.00				
100	PV2 BPSK	270	0	19.01	19.06	19.00	20.2	0.0	0.0	
100	QPSK	1	1	19.00	19.05	18.97				
100	QPSK	1	137	19.00	19.04	19.00	20.2	0.0	0.0	
100	QPSK	1	271	18.98	19.03	19.05				
100	QPSK	135	0	18.96	19.00	18.97		20.2	0.0	
100	QPSK	135	69	18.95	18.99	18.95				
100	QPSK	135	138	18.93	18.96	18.94				
100	QPSK	270	0	18.96	19.02	18.99	20.2			
100	16QAM	1	1	19.02	19.06	18.98	20.2	0.0	0.0	
100	16QAM	1	1	18.97	19.02	18.99	20.2			
100	256QAM	1	1	19.02	19.07	19.01	20.2	0.0		
Channel				508200	518598	528000	Tune-up limit	MPR		
Frequency (MHz)				2541	2592.99	2644.98	20.2	0.0		
90	PV2 BPSK	1	1	18.97	19.04	18.98	20.2	0.0		
Channel				507204	518598	528000	Tune-up limit	MPR		
Frequency (MHz)				2538.02	2592.99	2643.99	20.2	0.0		
80	PV2 BPSK	1	1	18.94	18.97	18.95	20.2	0.0		
Channel				504204	518598	532998	Tune-up limit	MPR		
Frequency (MHz)				2522.02	2592.99	2674.98	20.2	0.0		
90	PV2 BPSK	1	1	18.99	19.03	19.05	20.2	0.0		
Channel				503202	518598	530000	Tune-up limit	MPR		
Frequency (MHz)				2516.01	2592.99	2670	20.2	0.0		
40	PV2 BPSK	1	1	18.99	19.03	18.96	20.2	0.0		
Channel				502200	518598	530000	Tune-up limit	MPR		
Frequency (MHz)				2511	2592.99	2674.98	20.2	0.0		
30	PV2 BPSK	1	1	18.98	19.01	18.93	20.2	0.0		
Channel				501204	518598	530998	Tune-up limit	MPR		
Frequency (MHz)				2504.02	2592.99	2678.98	20.2	0.0		
20	PV2 BPSK	1	1	18.97	19.00	18.93	20.2	0.0		



LTE&5GNR EN-DC Power

Full Power Mode - Ant0

n66								
BW (MHz)	Multicast	RB Size	RB Offset	Power Low Ch. Power	Power Middle Ch. Power	Power High Ch. Power	Power-up level (dBm)	MPN (dB)
Channel				344000	348000	354000		
Frequency (MHz)				1722.6	1742.6	1762.6		
20	PUSCH	1	1	23.86	23.87	23.83		
20	PUSCH	1	81	23.74	23.87	23.82	24.8	0.0
20	PUSCH	1	164	23.85	23.90	23.80		
20	PUSCH	36	0	23.23	23.29	23.20	24.8	0.0
20	PUSCH	36	36	23.87	23.03	23.80	24.8	0.0
20	PUSCH	36	56	23.29	23.41	23.33		
20	PUSCH	100	0	23.44	23.00	23.78	24.8	0.0
20	QPSK	1	1	23.81	23.03	23.77		
20	QPSK	1	53	23.70	23.77	23.65	24.8	0.0
20	QPSK	1	104	23.80	23.81	23.70		
20	QPSK	36	0	23.79	23.75	23.71	24.8	0.0
20	QPSK	36	26	23.78	23.74	23.68	24.8	0.0
20	QPSK	36	86	23.76	23.73	23.66		
20	QPSK	100	0	23.78	23.74	23.65	24.8	0.0
20	16QAM	1	1	23.79	23.69	23.68	24.8	0.0
20	16QAM	1	1	20.34	20.23	20.20	23.5	1.5
20	256QAM	1	1	20.27	20.25	20.11	21.3	3.5
Channel				343500	348000	354000	Power-up level (dBm)	MPN (dB)
Frequency (MHz)				1733.6	1753.6	1773.6		
15	PUSCH	1	1	23.85	23.87	23.77	24.8	0.0
Channel				343000	348000	353000	Power-up level (dBm)	MPN (dB)
Frequency (MHz)				1743.6	1763.6	1783.6		
10	PUSCH	1	1	23.82	23.86	23.80	24.8	0.0
Channel				342500	348000	353000	Power-up level (dBm)	MPN (dB)
Frequency (MHz)				1753.6	1773.6	1793.6		
5	PUSCH	1	1	23.79	23.86	23.78	24.8	0.0



n41_FCC								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPE (dB)
Channel				555202	518598	528000		
Frequency (MHz)				2548.01	2552.80	2560		
100	PL2 BPSK	1	1	25.94	25.38	25.30	24.1	0.0
100	PL2 BPSK	1	197	25.25	25.35	25.28		
100	PL2 BPSK	1	271	25.31	25.37	25.25		
100	PL2 BPSK	155	0	25.28	25.28	25.25	24.1	0.0
100	PL2 BPSK	155	88	25.52	25.32	25.27		
100	PL2 BPSK	155	158	25.22	25.34	25.22		
100	PL2 BPSK	270	0	25.30	25.33	25.28	24.1	0.0
100	QPSK	1	1	25.30	25.38	25.25	24.1	0.0
100	QPSK	1	93	25.25	25.34	25.22		
100	QPSK	1	271	25.32	25.35	25.28		
100	QPSK	155	0	25.28	25.27	25.18	24.1	0.0
100	QPSK	155	88	25.28	25.34	25.17		
100	QPSK	155	158	25.24	25.35	25.18		
100	QPSK	270	0	25.37	25.34	25.20	24.1	0.0
100	8QAM	1	1	25.28	25.38	25.22	24.1	0.0
100	8QAM	1	1	25.82	25.28	25.20	24.1	0.0
100	25QAM	1	1	22.20	22.58	22.43	23.1	1.0
Channel				555202	518598	528000		
Frequency (MHz)				2548	2552.80	2564.58		
50	PL2 BPSK	1	1	25.28	25.35	25.28	24.1	0.0
Channel				557204	518598	528000		
Frequency (MHz)				2558.02	2552.80	2566.58		
80	PL2 BPSK	1	1	25.25	25.30	25.20	24.1	0.0
Channel				558204	518598	528000		
Frequency (MHz)				2571.52	2552.80	2565.58		
50	PL2 BPSK	1	1	25.30	25.25	25.18	24.1	0.0
Channel				559202	518598	524000		
Frequency (MHz)				2576.01	2552.80	2570		
40	PL2 BPSK	1	1	25.31	25.25	25.21	24.1	0.0
Channel				559205	518598	524000		
Frequency (MHz)				2571	2552.80	2574.58		
30	PL2 BPSK	1	1	25.24	25.30	25.27	24.1	0.0
Channel				561204	518598	528000		
Frequency (MHz)				2586.58	2552.80	2578.58		
20	PL2 BPSK	1	1	25.28	25.33	25.22	24.1	0.0

n41(RPUE)_FCC								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPE (dB)
Channel				555202	518598	528000		
Frequency (MHz)				2548.01	2552.80	2560		
100	PL2 BPSK	1	1	26.10	26.15	26.08	26.8	0.0
100	PL2 BPSK	1	197	26.05	26.11	26.05		
100	PL2 BPSK	1	271	26.09	26.15	26.02		
100	PL2 BPSK	155	0	25.84	25.88	25.82	26.8	0.0
100	PL2 BPSK	155	88	26.08	26.15	26.05		
100	PL2 BPSK	155	158	25.88	25.81	25.81		
100	PL2 BPSK	270	0	26.05	26.11	26.04	26.8	0.0
100	QPSK	1	1	26.00	26.14	26.05	26.8	0.0
100	QPSK	1	197	26.02	26.08	26.02		
100	QPSK	1	271	25.98	25.99	25.92		
100	QPSK	155	0	26.00	26.08	26.02	26.8	0.0
100	QPSK	155	88	25.94	26.00	25.94		
100	QPSK	155	158	25.98	26.04	25.97		
100	QPSK	270	0	25.77	25.97	25.88	26.8	0.0
100	16QAM	1	1	26.02	26.07	26.04	26.8	0.0
100	64QAM	1	1	24.95	24.38	24.67	25.8	1.0
100	256QAM	1	1	22.33	22.35	22.45	23.8	3.0
Channel				562202	518598	528000		
Frequency (MHz)				2548	2552.80	2564.58		
50	PL2 BPSK	1	1	26.08	26.14	26.02	26.8	0.0
Channel				567204	518598	528000		
Frequency (MHz)				2558.02	2552.80	2566.58		
80	PL2 BPSK	1	1	26.02	26.04	25.97	26.8	0.0
Channel				568204	518598	528000		
Frequency (MHz)				2571.52	2552.80	2565.58		
50	PL2 BPSK	1	1	26.02	26.11	26.05	26.8	0.0
Channel				569202	518598	524000		
Frequency (MHz)				2576.01	2552.80	2570		
40	PL2 BPSK	1	1	26.00	26.10	26.09	26.8	0.0
Channel				569205	518598	524000		
Frequency (MHz)				2571	2552.80	2574.58		
30	PL2 BPSK	1	1	26.08	26.08	25.99	26.8	0.0
Channel				561204	518598	528000		
Frequency (MHz)				2586.58	2552.80	2578.58		
20	PL2 BPSK	1	1	26.08	26.14	26.05	26.8	0.0



Reduced Power level 1/2/3 for Head – Ant0

n66									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch [dBm]	Power Middle Ch [dBm]	Power High Ch [dBm]	Powerage limit (dBm)	MPE1 (dB)	
Channel				344000	345000	346000			
Frequency (MHz)				1792	1747	1772			
20	PIG BPSK	1	1	16.97	17.15	17.09	18.0	0.0	
20	PIG BPSK	1	0	16.91	17.01	16.96			
20	PIG BPSK	1	104	17.01	17.06	16.96	18.0	0.0	
20	PIG BPSK	0	0	16.84	16.90	16.83			
20	PIG BPSK	0	26	16.86	17.06	16.87	18.0	0.0	
20	PIG BPSK	0	55	16.82	16.84	16.86			
20	PIG BPSK	100	0	16.81	16.87	16.85	18.0	0.0	
20	QPSK	1	1	16.91	17.03	16.87			
20	QPSK	1	55	16.89	16.89	16.84	18.0	0.0	
20	QPSK	1	104	16.87	16.89	16.77			
20	QPSK	0	0	16.96	16.91	16.87	18.0	0.0	
20	QPSK	0	26	16.90	16.95	16.87			
20	QPSK	0	55	16.88	16.92	16.87	18.0	0.0	
20	QPSK	100	0	16.92	16.88	16.83			
20	16QAM	1	1	16.91	17.01	16.90	18.0	0.0	
20	16QAM	1	1	16.84	16.83	16.90			
20	256QAM	1	1	16.77	16.75	16.71	18.0	0.0	
Channel				345000	345000	345000			
Frequency (MHz)				1717.5	1745	1772.5			
15	PIG BPSK	1	1	16.93	17.05	16.86	18.0	0.0	
Channel				345000	345000	345000			
Frequency (MHz)				1715	1745	1775			
10	PIG BPSK	1	1	16.90	17.03	16.88	18.0	0.0	
Channel				345000	345000	345000			
Frequency (MHz)				1712.5	1745	1777.5			
5	PIG BPSK	1	1	16.87	17.04	16.86	18.0	0.0	



n41_FCC									
SW (MHz)	Modulation	RB Size	RB Offset	Power Lmt Ch. / Freq.	Power Mstrs. Ch. / Freq.	Power Tgt. Ch. / Freq.	Power Tgt. Ch. / Freq.	Tune-up limit (dB)	MFR (dB)
Channel				300000	518000	520000			
Frequency (MHz)				2643.50	2643.50	2643.50			
100	PQ2 BPSK	1	1	17.12	17.27	17.21			
100	PQ2 BPSK	1	137	17.11	17.26	17.18	18.0	0.0	
100	PQ2 BPSK	1	271	17.02	17.18	17.10			
100	PQ2 BPSK	135	0	17.06	17.12	17.09			
100	PQ2 BPSK	135	86	17.12	17.26	17.19	18.0	0.0	
100	PQ2 BPSK	135	138	16.99	17.11	16.99			
100	PQ2 BPSK	270	0	17.10	17.23	17.15	18.0	0.0	
100	QPSK	1	1	17.13	17.19	17.08			
100	QPSK	1	134	17.15	17.17	17.05	18.0	0.0	
100	QPSK	1	271	16.98	17.02	17.07			
100	QPSK	135	0	17.10	17.18	17.07			
100	QPSK	135	86	17.06	17.14	16.97	18.0	0.0	
100	QPSK	135	138	16.98	17.09	17.12			
100	QPSK	270	0	17.08	17.13	16.99	18.0	0.0	
100	16QAM	1	1	17.09	17.10	16.97	18.0	0.0	
100	64QAM	1	1	16.91	16.97	17.09	18.0	0.0	
100	256QAM	1	1	16.81	16.99	17.09	18.0	0.0	
Channel				300000	518000	520000			
Frequency (MHz)				2541	2552.50	2644.50			
90	PQ2 BPSK	1	1	16.96	17.00	16.91	18.0	0.0	
Channel				300000	518000	520000			
Frequency (MHz)				2536.50	2552.50	2643.50			
80	PQ2 BPSK	1	1	16.89	16.96	16.84	18.0	0.0	
Channel				300000	518000	520000			
Frequency (MHz)				2531.50	2552.50	2643.50			
50	PQ2 BPSK	1	1	16.85	16.92	16.80	18.0	0.0	
Channel				300000	518000	520000			
Frequency (MHz)				2518.50	2552.50	2643.50			
40	PQ2 BPSK	1	1	16.84	16.97	16.89	18.0	0.0	
Channel				300000	518000	520000			
Frequency (MHz)				2511	2552.50	2643.50			
30	PQ2 BPSK	1	1	16.83	16.99	16.95	18.0	0.0	
Channel				300000	518000	520000			
Frequency (MHz)				2505.50	2552.50	2643.50			
20	PQ2 BPSK	1	1	16.82	16.98	16.93	18.0	0.0	

n41(NPUE)_FCC								
SW (MHz)	Modulation	RB Size	RB Offset	Power Lmt Ch. / Freq.	Power Mstrs. Ch. / Freq.	Power Tgt. Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				500000	518000	520000		
Frequency (MHz)				2143.51	2143.50	2143.50		
100	PQ2 BPSK	1	1	17.12	17.27	17.21		
100	PQ2 BPSK	1	137	17.11	17.26	17.18	18.0	0.0
100	PQ2 BPSK	1	271	17.02	17.08	17.10		
100	PQ2 BPSK	135	0	17.06	17.12	17.09		
100	PQ2 BPSK	135	86	17.12	17.26	17.19	18.0	0.0
100	PQ2 BPSK	135	138	16.99	17.11	16.99		
100	PQ2 BPSK	270	0	17.10	17.23	17.15	18.0	0.0
100	QPSK	1	1	17.13	17.19	17.08		
100	QPSK	1	137	17.15	17.17	17.05	18.0	0.0
100	QPSK	1	271	16.99	17.02	17.07		
100	QPSK	135	0	17.10	17.18	17.07		
100	QPSK	135	86	17.06	17.14	16.97	18.0	0.0
100	QPSK	135	138	16.98	17.09	17.12		
100	QPSK	270	0	17.08	17.13	16.99	18.0	0.0
100	16QAM	1	1	17.09	17.10	16.97	18.0	0.0
100	64QAM	1	1	16.91	16.97	17.09	18.0	0.0
100	256QAM	1	1	16.81	16.89	17.09	18.0	0.0
Channel				500000	518000	520000		
Frequency (MHz)				2541	2552.50	2644.50		
90	PQ2 BPSK	1	1	16.90	17.00	16.91	18.0	0.0
Channel				500000	518000	520000		
Frequency (MHz)				2536.50	2552.50	2643.50		
80	PQ2 BPSK	1	1	16.89	16.96	16.84	18.0	0.0
Channel				500000	518000	520000		
Frequency (MHz)				2531.50	2552.50	2643.50		
50	PQ2 BPSK	1	1	16.85	16.92	16.80	18.0	0.0
Channel				500000	518000	520000		
Frequency (MHz)				2518.50	2552.50	2643.50		
40	PQ2 BPSK	1	1	16.84	16.97	16.89	18.0	0.0
Channel				500000	518000	520000		
Frequency (MHz)				2511	2552.50	2643.50		
30	PQ2 BPSK	1	1	16.83	16.99	16.95	18.0	0.0
Channel				500000	518000	520000		
Frequency (MHz)				2505.50	2552.50	2643.50		
20	PQ2 BPSK	1	1	16.82	16.98	16.93	18.0	0.0



Reduced power for Hotspot on-Air3

n66								
RF (MHz)	Modulation	RF Size	RF Offset	Power Low Ch. / Freq.	Power Main Ch. / Freq.	Power High Ch. / Freq.	Turnup time (Sec)	MFR (dB)
Channel				345000	345000	345000		
Frequency (MHz)				1730	1745	1775		
20	PIG BPSK	1	1	19.18	19.21	19.10		
20	PIG BPSK	1	81	19.15	19.18	19.05	20.2	0.0
20	PIG BPSK	1	104	19.08	19.13	19.03		
20	PIG BPSK	50	0	19.02	19.08	19.08	20.2	0.0
20	PIG BPSK	50	96	19.15	19.18	19.09	20.2	0.0
20	PIG BPSK	50	96	19.05	19.07	19.07	20.2	0.0
20	PIG BPSK	100	0	19.14	19.15	19.07		
20	QPSK	1	1	19.39	19.38	19.05		
20	QPSK	1	81	19.15	19.08	19.08	20.2	0.0
20	QPSK	1	104	19.14	19.05	19.04		
20	QPSK	50	0	19.15	19.09	19.05	20.2	0.0
20	QPSK	50	96	19.18	19.14	19.10	20.2	0.0
20	QPSK	50	96	19.11	19.05	19.10	20.2	0.0
20	QPSK	100	0	19.15	19.11	19.08		
20	16QAM	1	1	19.03	19.13	19.12	20.2	0.0
20	64QAM	1	1	19.06	19.07	19.04	20.2	0.0
20	256QAM	1	1	19.00	19.00	19.98	20.2	0.0
Channel				345100	345100	345100		
Frequency (MHz)				1737.5	1745	1772.5		
15	PIG BPSK	1	1	19.14	19.17	19.04	20.2	0.0
Channel				345100	345100	345100		
Frequency (MHz)				1735	1745	1775		
10	PIG BPSK	1	1	19.11	19.15	19.07	20.2	0.0
Channel				345100	345100	345100		
Frequency (MHz)				1732.5	1745	1777.5		
5	PIG BPSK	1	1	19.08	19.12	19.05	20.2	0.0



n41_FCC											
SW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Main Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dB)	MPQ (dB)			
Channel				500002	518008	536000					
Frequency (MHz)				2543.51	2502.50	2643.50					
100	P2-D BPSK	1	1	17.12	17.27	17.21	18.1	0.0			
100	P2-D BPSK	1	137	17.11	17.26	17.18					
100	P2-D BPSK	1	271	17.02	17.08	17.19					
100	P2-D BPSK	135	0	17.06	17.12	17.09	18.1	0.0			
100	P2-D BPSK	135	86	17.12	17.26	17.19					
100	P2-D BPSK	135	138	16.90	17.11	16.99					
100	P2-D BPSK	270	0	17.10	17.23	17.15	18.1	0.0			
100	QPSK	1	1	17.13	17.19	17.08					
100	QPSK	1	137	17.15	17.17	17.05					
100	QPSK	1	271	16.98	17.02	17.07	18.1	0.0			
100	QPSK	135	0	17.10	17.18	17.07					
100	QPSK	135	86	17.06	17.14	16.97					
100	QPSK	135	138	16.98	17.09	17.12	18.1	0.0			
100	QPSK	270	0	17.08	17.13	16.99					
100	16QAM	1	1	17.09	17.10	16.97					
100	64QAM	1	1	16.91	16.97	17.09	18.1	0.0			
100	256QAM	1	1	16.81	16.99	17.09					
Channel				500000	518006	535998	Tune-up limit (dB)				
Frequency (MHz)				2541.50	2502.50	2644.50	18.1				
90	P2-D BPSK	1	1	16.96	17.00	16.91	18.1	0.0			
Channel				507204 <th>518006</th> <th>535998</th>	518006	535998					
Frequency (MHz)				2541.50	2502.50	2644.50					
80	P2-D BPSK	1	1	16.89	16.96	16.84	18.1	0.0			
Channel				514204 <th>518006</th> <th>535998</th>	518006	535998					
Frequency (MHz)				2541.50	2502.50	2644.50					
50	P2-D BPSK	1	1	16.85	16.92	16.80	18.1	0.0			
Channel				505202 <th>518006</th> <th>534800</th>	518006	534800					
Frequency (MHz)				2541.50	2502.50	2644.50					
40	P2-D BPSK	1	1	16.84	16.97	16.89	18.1	0.0			
Channel				502200 <th>518006</th> <th>534998</th>	518006	534998					
Frequency (MHz)				2541.50	2502.50	2644.50					
30	P2-D BPSK	1	1	16.83	16.99	16.95	18.1	0.0			
Channel				501204 <th>518006</th> <th>535998</th>	518006	535998					
Frequency (MHz)				2541.50	2502.50	2644.50					
20	P2-D BPSK	1	1	16.82	16.98	16.93	18.1	0.0			
Channel				500200 <th>518006</th> <th>535998</th>	518006	535998					
Frequency (MHz)				2541.50	2502.50	2644.50					

n41(MPUE)_FCC											
SW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Main Ch. / Freq.	Power Up Ch. / Freq.	Tune-up limit (dBm)	MPQ (dB)			
Channel				500000	518000	528000					
Frequency (MHz)				2543.51	2502.50	2645.50					
100	P2-D BPSK	1	1	17.12	17.27	17.21	18.1	0.0			
100	P2-D BPSK	1	137	17.11	17.26	17.18					
100	P2-D BPSK	1	271	17.02	17.08	17.19					
100	P2-D BPSK	135	0	17.06	17.12	17.09	18.1	0.0			
100	P2-D BPSK	135	86	17.12	17.26	17.19					
100	P2-D BPSK	135	138	16.90	17.11	16.99					
100	P2-D BPSK	270	0	17.10	17.23	17.15	18.1	0.0			
100	QPSK	1	1	17.13	17.19	17.08					
100	QPSK	1	137	17.15	17.17	17.05					
100	QPSK	1	271	16.99	17.02	17.07	18.1	0.0			
100	QPSK	135	0	17.10	17.18	17.07					
100	QPSK	135	86	17.06	17.14	16.97					
100	QPSK	135	138	16.98	17.09	17.12	18.1	0.0			
100	QPSK	270	0	17.08	17.13	16.99					
100	16QAM	1	1	17.09	17.10	16.97					
100	64QAM	1	1	16.91	16.97	17.09	18.1	0.0			
100	256QAM	1	1	16.81	16.99	17.09					
Channel				500000	518000	528000	Tune-up limit				
Frequency (MHz)				2543.51	2502.50	2645.50	18.1				
90	P2-D BPSK	1	1	16.90	17.00	16.91	18.1	0.0			
Channel				500000	518000	528000					
Frequency (MHz)				2543.51	2502.50	2645.50					
80	P2-D BPSK	1	1	16.89	16.96	16.84	18.1	0.0			
Channel				500000	518000	528000					
Frequency (MHz)				2543.51	2502.50	2645.50					
50	P2-D BPSK	1	1	16.85	16.92	16.80	18.1	0.0			
Channel				500000	518000	528000					
Frequency (MHz)				2543.51	2502.50	2645.50					
40	P2-D BPSK	1	1	16.84	16.90	16.88	18.1	0.0			
Channel				500000	518000	528000					
Frequency (MHz)				2543.51	2502.50	2645.50					
30	P2-D BPSK	1	1	16.83	16.89	16.95	18.1	0.0			
Channel				500000	518000	528000					
Frequency (MHz)				2543.51	2502.50	2645.50					
20	P2-D BPSK	1	1	16.82	16.88	16.93	18.1	0.0			
Channel				500000	518000	528000					
Frequency (MHz)				2543.51	2502.50	2645.50					



Reduced power for Sensor on-AirB

n66							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Spectral Density (dBm)
Channel				344000	345000	346000	
Frequency (MHz)				1720	1745	1770	
20	PSS-SSB	1	1	18.78	18.81	18.79	
20	PSS-SSB	1	53	18.76	18.78	18.80	19.8
20	PSS-SSB	1	104	18.68	18.73	18.83	
20	PSS-SSB	55	0	18.82	18.88	18.88	0.0
20	PSS-SSB	55	28	18.79	18.79	18.80	0.0
20	PSS-SSB	55	56	18.85	18.87	18.87	
20	PSS-SSB	100	0	18.74	18.75	18.87	19.8
20	QPSK	1	1	18.58	18.68	18.59	
20	QPSK	1	53	18.73	18.68	18.85	19.8
20	QPSK	1	104	18.74	18.65	18.84	
20	QPSK	55	0	18.73	18.68	18.85	19.8
20	QPSK	55	28	18.78	18.74	18.78	0.0
20	QPSK	55	56	18.71	18.65	18.79	
20	QPSK	100	0	18.75	18.71	18.88	19.8
20	16QAM	1	1	18.85	18.73	18.72	19.8
20	16QAM	1	1	18.88	18.67	18.64	0.0
20	256QAM	1	1	18.80	18.80	18.86	19.8
Channel				345000	345000	345000	
Frequency (MHz)				1737.5	1745	1752.5	
15	PSS-SSB	1	1	18.74	18.77	18.84	19.8
Channel				345000	345000	345000	
Frequency (MHz)				1715	1745	1775	
10	PSS-SSB	1	1	18.71	18.75	18.87	19.8
Channel				345000	345000	345000	
Frequency (MHz)				1732.5	1745	1757.5	
5	PSS-SSB	1	1	18.68	18.72	18.85	19.8



n41_FCC									
GW (MHz)	Modulation	RB Size	RB Offset	Power Limit Ch. / Freq.	Power Margin Ch. / Freq.	Power Limit Ch. / Freq.	Power Margin Ch. / Freq.	Tune-up limit (min)	MFR (dB)
Channel				50000	51808	52800			
Frequency (MHz)				2643.50	2552.50	2640			
100	PQ2 BPSK	1	1	18.13	18.24	18.17			
100	PQ2 BPSK	1	137	18.07	18.21	18.14		20.0	0.0
100	PQ2 BPSK	1	271	18.09	18.18	18.13			
100	PQ2 BPSK	135	0	18.08	18.18	18.13			
100	PQ2 BPSK	135	88	18.10	18.22	18.15		20.0	0.0
100	PQ2 BPSK	135	138	18.04	18.08	18.04			
100	PQ2 BPSK	270	0	18.08	18.20	18.12		20.0	0.0
100	QPSK	1	1	18.18	18.11	18.05			
100	QPSK	1	134	18.11	18.18	18.01		20.0	0.0
100	QPSK	1	271	18.08	18.08	18.04			
100	QPSK	135	0	18.17	18.11	18.14			
100	QPSK	135	88	18.04	18.18	18.01		20.0	0.0
100	QPSK	135	138	18.03	18.04	18.07			
100	QPSK	270	0	18.03	18.12	18.08		20.0	0.0
100	16QAM	1	1	18.18	18.11	18.08		20.0	0.0
100	64QAM	1	1	18.03	18.08	18.18		20.0	0.0
100	256QAM	1	1	18.02	18.08	18.01		20.0	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2541	2552.50	2644.58			
90	PQ2 BPSK	1	1	18.83	18.00	18.94		20.0	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2536.50	2552.50	2640.58			
80	PQ2 BPSK	1	1	18.82	18.98	18.85		20.0	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2612.50	2552.50	2654.50			
50	PQ2 BPSK	1	1	18.78	18.94	18.91		20.0	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2618.50	2552.50	2670			
40	PQ2 BPSK	1	1	18.77	18.99	18.89		20.0	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2611	2552.50	2674.58			
30	PQ2 BPSK	1	1	18.76	18.91	18.96		20.0	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2612.54	2552.50	2676.58			
20	PQ2 BPSK	1	1	18.75	18.98	18.94		20.0	0.0

n41(MPUE)_FCC									
GW (MHz)	Modulation	RB Size	RB Offset	Power Limit Ch. / Freq.	Power Margin Ch. / Freq.	Power Limit Ch. / Freq.	Power Margin Ch. / Freq.	Tune-up limit (min)	MFR (dB)
Channel				50000	51808	52800			
Frequency (MHz)				2143.51	2052.50	2140			
100	PQ2 BPSK	1	1	18.18	18.24	18.17			
100	PQ2 BPSK	1	137	18.07	18.21	18.14		20.0	0.0
100	PQ2 BPSK	1	271	18.09	18.18	18.13			
100	PQ2 BPSK	135	0	18.08	18.18	18.13			
100	PQ2 BPSK	135	88	18.10	18.22	18.15		20.0	0.0
100	PQ2 BPSK	135	138	18.04	18.08	18.04			
100	PQ2 BPSK	270	0	18.08	18.20	18.12		20.0	0.0
100	QPSK	1	1	18.18	18.11	18.05			
100	QPSK	1	134	18.11	18.18	18.01		20.0	0.0
100	QPSK	1	271	18.08	18.08	18.04			
100	QPSK	135	0	18.17	18.11	18.14			
100	QPSK	135	88	18.04	18.18	18.01		20.0	0.0
100	QPSK	135	138	18.03	18.04	18.07			
100	QPSK	270	0	18.03	18.12	18.08		20.0	0.0
100	16QAM	1	1	18.18	18.11	18.08		20.0	0.0
100	64QAM	1	1	18.03	18.08	18.18		20.0	0.0
100	256QAM	1	1	18.02	18.08	18.01		20.0	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2541	2552.50	2644.58			
90	PQ2 BPSK	1	1	18.83	18.00	18.94		20.0	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2536.50	2552.50	2640.58			
80	PQ2 BPSK	1	1	18.82	18.98	18.85		20.0	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2612.50	2552.50	2654.50			
50	PQ2 BPSK	1	1	18.78	18.94	18.91		20.0	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2618.50	2552.50	2670			
40	PQ2 BPSK	1	1	18.77	18.99	18.89		20.0	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2611	2552.50	2674.58			
30	PQ2 BPSK	1	1	18.76	18.91	18.96		20.0	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2612.54	2552.50	2676.58			
20	PQ2 BPSK	1	1	18.75	18.98	18.94		20.0	0.0



Full Power Mode - Ant1

n06									
EP [dB]	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Margin Ch. / Freq.	Power Margin Ch. / Freq.	Turn-up limit (dBm)	MPT (dB)	
Channel				344500	360000	364500			
Frequency (MHz)				1745	1745	1770			
20	P12 BPSK	1	1	24.14	24.18	23.87	24.8	0.0	
20	P12 BPSK	1	53	24.11	24.02	23.79			
20	P12 BPSK	1	104	24.15	24.06	23.84			
20	P12 BPSK	50	0	24.12	24.01	23.72	24.8	0.0	
20	P12 BPSK	50	20	24.15	24.10	23.84	24.8	0.0	
20	P12 BPSK	50	50	24.04	23.94	23.63	24.8	0.0	
20	P12 BPSK	100	0	24.10	24.12	23.81	24.8	0.0	
20	QPSK	1	1	24.10	24.03	23.84			
20	QPSK	1	53	23.92	23.84	23.38			
20	QPSK	1	104	23.97	23.90	23.47	24.8	0.0	
20	QPSK	50	0	24.15	24.01	23.70			
20	QPSK	50	20	24.09	23.90	23.68			
20	QPSK	50	50	24.10	24.03	23.37	24.8	0.0	
20	QPSK	100	0	24.08	24.03	23.70	24.8	0.0	
20	MSK4M	1	1	24.09	24.14	23.68	24.8	0.0	
20	MSK4M	1	1	23.20	23.30	23.00	23.8	1.0	
20	25GQAM	1	1	21.01	20.91	20.78	21.8	3.0	
Channel				343500	360000	364500	Turn-up limit (dBm)	MPT (dB)	
Frequency (MHz)				1742.5	1745	1772.5			
15	P12 BPSK	1	1	23.98	24.01	23.80	24.8	0.0	
Channel				343500	360000	365500	Turn-up limit (dBm)	MPT (dB)	
Frequency (MHz)				1742.5	1745	1775			
10	P12 BPSK	1	1	24.00	24.02	23.80	24.8	0.0	
Channel				342500	360000	365500	Turn-up limit (dBm)	MPT (dB)	
Frequency (MHz)				1742.5	1745	1775			
5	P12 BPSK	1	1	24.00	24.04	23.78	24.8	0.0	



n41_FCC									
SW (MHz)	Modulation	RB Size	RB Offset	Power Limit Ch. / Freq.	Power Margin Ch. / Freq.	Power Limit Ch. / Freq.	Power Margin Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				50000	51808	52800			
Frequency (MHz)				244.50	250.50	260.50			
100	PSSB BPSK	1	1	24.18	24.22	24.14			
100	PSSB BPSK	1	137	24.13	24.19	24.11		24.8	0.0
100	PSSB BPSK	1	271	24.11	24.13	24.09			
100	PSSB BPSK	135	0	23.81	23.84	23.55			
100	PSSB BPSK	135	88	24.15	24.19	24.11		24.8	0.0
100	PSSB BPSK	135	138	23.51	23.68	23.37			
100	PSSB BPSK	270	0	24.13	24.16	24.09		24.8	0.0
100	QPSK	1	1	23.92	24.12	24.07			
100	QPSK	1	137	24.11	24.01	23.98		24.8	0.0
100	QPSK	1	271	24.05	23.93	24.04			
100	QPSK	135	0	23.99	24.05	23.95			
100	QPSK	135	88	24.03	23.98	23.91		24.8	0.0
100	QPSK	135	138	24.05	23.97	23.93			
100	QPSK	270	0	24.03	24.03	23.95		24.8	0.0
100	16QAM	1	1	23.54	24.10	23.91		24.8	0.0
100	64QAM	1	1	22.45	22.68	22.42		23.8	1.0
100	256QAM	1	1	20.45	20.57	20.53		21.8	3.0
Channel				50000	51808	52800			
Frequency (MHz)				2541	2592.50	2644.50			
90	PSSB BPSK	1	1	24.15	24.00	24.09		24.8	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2636.50	2592.50	2644.50			
80	PSSB BPSK	1	1	24.06	24.15	24.03		24.8	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2631.50	2592.50	2644.50			
50	PSSB BPSK	1	1	24.03	24.20	24.12		24.8	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2618.50	2592.50	2635			
40	PSSB BPSK	1	1	24.11	24.18	24.08		24.8	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2611	2592.50	2614.50			
30	PSSB BPSK	1	1	24.08	24.19	24.02		24.8	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2605.50	2592.50	2607.50			
20	PSSB BPSK	1	1	24.10	24.11	24.07		24.8	0.0

n41(NPUE)_FCC									
SW (MHz)	Modulation	RB Size	RB Offset	Power Limit Ch. / Freq.	Power Margin Ch. / Freq.	Power Limit Ch. / Freq.	Power Margin Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				50000	51808	52800			
Frequency (MHz)				2548.50	2592.50	2640			
100	PSSB BPSK	1	1	25.36	25.48	25.20			
100	PSSB BPSK	1	137	25.21	25.15	24.85		26.8	0.0
100	PSSB BPSK	1	271	25.14	24.88	24.45			
100	PSSB BPSK	135	0	24.60	24.67	24.44			
100	PSSB BPSK	135	88	25.32	25.30	25.09		26.8	0.0
100	PSSB BPSK	135	138	24.69	24.48	24.15			
100	PSSB BPSK	270	0	24.60	24.60	24.53		25.8	1.0
100	QPSK	1	1	25.25	25.38	25.18			
100	QPSK	1	137	25.28	25.13	25.02		26.8	0.0
100	QPSK	1	271	24.77	24.80	24.68			
100	QPSK	135	0	24.59	24.65	24.48			
100	QPSK	135	88	24.59	24.59	24.83		26.8	0.0
100	QPSK	135	138	24.13	24.20	23.05			
100	QPSK	270	0	24.20	24.40	24.13		25.8	1.0
100	16QAM	1	1	24.23	24.37	24.18		25.8	1.0
100	64QAM	1	1	22.77	22.82	22.68		23.8	3.0
100	256QAM	1	1	20.72	20.83	20.70		21.8	3.0
Channel				50000	51808	52800			
Frequency (MHz)				2541	2592.50	2644.50			
90	PSSB BPSK	1	1	25.39	25.36	25.18		26.8	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2536.50	2592.50	2644.50			
80	PSSB BPSK	1	1	25.28	25.40	25.09		26.8	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2531.50	2592.50	2644.50			
50	PSSB BPSK	1	1	25.11	25.30	25.11		26.8	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2518.50	2592.50	2635			
40	PSSB BPSK	1	1	25.08	25.42	25.03		26.8	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2511	2592.50	2514.50			
30	PSSB BPSK	1	1	25.16	25.93	25.10		26.8	0.0
Channel				50000	51808	52800			
Frequency (MHz)				2505.50	2592.50	2507.50			
20	PSSB BPSK	1	1	25.27	25.40	25.11		26.8	0.0



Full Power Mode - Ant0

Band 7 (2400MHz Band) Part 27									
BW (MHz)	Modulation	RB Slot	RB Offset	Power Level Ch. (Freq.)	Power Mask Ch. (Freq.)	Power Spectrum Ch. (Freq.)	Time-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.87	24.10	24.13			
20	QPSK	1	48	23.87	24.10	24.15	24.8	0	
20	QPSK	50	0	23.89	24.10	24.13			
20	QPSK	50	0	22.96	23.22	23.19			
20	QPSK	50	24	23.07	23.27	23.25			
20	QPSK	50	50	23.05	23.25	23.23	23.8	1	
20	QPSK	100	0	23.05	23.25	23.23			
20	16QAM	1	0	23.23	23.45	23.46			
20	16QAM	1	48	23.27	23.52	23.47	23.8	1	
20	16QAM	50	0	23.23	23.45	23.46			
20	16QAM	50	0	21.96	22.23	22.20			
20	16QAM	50	24	22.08	22.28	22.33	22.8	2	
20	16QAM	50	48	21.94	22.20	22.20			
20	16QAM	100	0	22.06	22.28	22.28			
20	16QAM	1	0	22.02	22.30	22.29			
20	16QAM	1	48	22.18	22.45	22.26	22.8	2	
20	16QAM	1	96	22.19	22.39	22.33			
20	16QAM	50	0	20.96	21.25	21.21			
20	16QAM	50	24	21.10	21.29	21.33	21.8	3	
20	16QAM	100	0	21.08	21.25	21.29			
20	256QAM	1	0	19.32	19.30	19.40			
20	256QAM	1	48	19.13	19.34	19.38	19.8	5	
20	256QAM	1	96	19.08	19.08	19.32			
20	256QAM	50	0	18.35	18.88	18.10			
20	256QAM	50	24	18.86	18.80	18.10	19.8	5	
20	256QAM	50	50	18.86	18.80	19.21			
20	256QAM	100	0	18.05	18.06	18.18			
Channel									
Frequency (MHz)									
15	QPSK	1	0	24.15	24.08	24.05			
15	QPSK	1	37	24.16	24.12	24.13	24.8	0	
15	QPSK	1	74	24.16	24.13	24.17			
15	QPSK	1	111	23.32	23.32	23.32			
15	QPSK	36	20	23.37	23.34	23.34	23.8	1	
15	QPSK	36	56	23.32	23.32	23.31			
15	QPSK	72	36	23.33	23.30	23.32			
15	16QAM	1	0	23.48	23.47	23.48			
15	16QAM	1	37	23.51	23.53	23.51	23.8	1	
15	16QAM	1	74	23.54	23.53	23.53			
15	16QAM	36	0	22.29	22.23	22.19			
15	16QAM	36	20	22.34	22.32	22.32	22.8	2	
15	16QAM	36	56	22.34	22.32	22.32			
15	16QAM	72	36	22.35	22.30	22.23			
15	16QAM	1	0	22.37	22.37	22.31			
15	16QAM	1	37	22.50	22.43	22.45	22.8	2	
15	16QAM	1	74	22.45	22.41	22.45			
15	16QAM	36	0	21.34	21.32	21.32			
15	16QAM	36	20	21.41	21.41	21.36	21.8	3	
15	16QAM	36	56	21.36	21.36	21.36			
15	16QAM	72	36	21.34	21.33	21.32			
15	256QAM	1	0	19.31	19.38	19.96			
15	256QAM	1	37	19.38	19.37	19.10	19.8	5	
15	256QAM	1	74	19.33	19.37	19.36			
15	256QAM	36	0	19.29	19.24	19.36			
15	256QAM	36	20	19.20	19.26	19.45	19.8	5	
15	256QAM	36	56	19.15	19.16	19.45			
15	256QAM	72	36	19.27	19.32	19.40			
Channel									
Frequency (MHz)									
10	QPSK	1	0	24.03	24.03	24.02			
10	QPSK	1	25	23.90	24.05	24.06	24.8	0	
10	QPSK	1	49	24.09	24.04	24.16			
10	QPSK	25	10	23.90	23.10	23.10			
10	QPSK	25	12	23.32	23.33	23.27	23.8	1	
10	QPSK	25	25	23.19	23.36	23.22			
10	QPSK	1	0	23.24	23.21	23.22			
10	16QAM	1	23	23.35	23.15	23.43	23.8	1	
10	16QAM	1	25	23.29	23.09	23.48			
10	16QAM	1	49	23.26	23.25	23.39			
10	16QAM	25	10	22.37	22.38	22.19			
10	16QAM	25	12	22.35	22.35	22.35	22.8	2	
10	16QAM	25	25	22.09	22.25	22.30			
10	16QAM	1	0	22.15	22.40	22.19			
10	16QAM	1	0	22.38	22.37	22.40			
10	16QAM	1	25	22.33	22.48	22.48	22.8	2	
10	16QAM	1	49	22.48	22.39	22.34			
10	16QAM	25	0	21.04	21.24	21.15			
10	16QAM	25	12	21.29	21.37	21.41	21.8	3	
10	16QAM	25	25	21.24	21.38	21.16			
10	16QAM	50	0	21.38	21.44	21.15			
10	256QAM	1	0	19.14	19.15	19.36			
10	256QAM	1	25	19.08	19.15	19.44	19.8	5	
10	256QAM	1	49	19.17	19.07	19.36			
10	256QAM	25	0	19.27	19.21	19.42			
10	256QAM	25	12	19.15	19.25	19.36	19.8	5	
10	256QAM	25	25	19.05	19.26	19.29			
10	256QAM	50	0	19.18	19.24	19.37			
Channel									
Frequency (MHz)									
5	QPSK	1	0	24.13	24.06	24.10			
5	QPSK	1	13	24.08	24.13	24.10	24.8	0	
5	QPSK	1	24	24.14	24.10	24.12			
5	QPSK	12	0	23.24	23.18	23.25			
5	QPSK	12	13	23.30	23.21	23.21	23.8	1	
5	QPSK	12	13	23.22	23.32	23.26			
5	QPSK	25	0	23.30	23.28	23.22			
5	16QAM	1	0	23.29	23.39	23.33			
5	16QAM	1	12	23.33	23.39	23.32	23.8	1	
5	16QAM	1	24	23.37	23.38	23.33			
5	16QAM	12	0	23.15	23.20	23.33			
5	16QAM	12	7	22.23	22.32	22.30	22.8	2	
5	16QAM	12	13	22.23	22.34	22.34			
5	16QAM	25	0	22.23	22.39	22.34			
5	16QAM	1	0	22.39	22.38	22.21			
5	16QAM	1	12	22.31	22.40	22.08	22.8	2	
5	16QAM	1	24	22.31	22.40	22.09			
5	16QAM	12	0	21.31	21.39	21.12			
5	16QAM	12	7	21.31	21.35	21.36	21.8	3	
5	16QAM	12	13	21.35	21.43	21.21			
5	16QAM	25	0	21.13	21.38	21.15			
5	256QAM	1	0	19.24	19.15	19.36			
5	256QAM	1	12	19.24	19.25	19.46	19.8	5	
5	256QAM	1	24	19.22	19.16	19.46			
5	256QAM	12	0	19.21	19.21	19.42			
5	256QAM	12	7	19.03	19.10	19.34	19.8	5	
5	256QAM	12	13	19.08	19.26	19.41			
5	256QAM	25	0	19.26	19.27	19.26			

Band 66									
BW (MHz)	Modulation	RB Slot	RB Offset	Power Level Ch. (15002)	Power Mask Ch. (15022)	Power Spectrum Ch. (15052)	Time-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.71	23.77	23.63			
20	QPSK	1	48	23.37	23.52	23.61	24.8	0	
20	QPSK	50	0	23.49	23.47	23.51			
20	QPSK	50	0	22.87	22.87	22.82			
20	QPSK	50	24	22.78	22.80	22.75	23.8	1	
20	QPSK	50	50	22.72	22.84	22.71			
20	QPSK	100	0	22.77	22.80	22.73			
20	16QAM	1	0	23.04	23.04	23.08			
20	16QAM	1	48	22.82	23.11	23.02	23.8	1	
20	16QAM	50	0	22.81	22.96	23.00			
20	16QAM	50	0	21.51	21.68	21.75			
20	16QAM	50	24	21.78	21.63	21.78	22.8	2	
20	16QAM	50	48	21.77	21.62	21.71			
20	16QAM	100	0	21.59	21.54	21.91			
20	16QAM	1	0	21.78	21.95	21.86			
20	16QAM	1	48	21.85	21.88	21.88	22.8	2	
20	16QAM	1	96	21.87	21.83	21.82			
20	16QAM	50	0	20.54	20.75	20.66			
20	16QAM	50	24	20.55	20.71	20.78	21.8	3	
20	16QAM	100	0	20.45	20.59	20.70			
20	256QAM	1	0	19.29	19.14	19.18			
20	256QAM	1	48	19.46	19.11	19.17	19.8	5	
20	256QAM	1	96	19.87	19.13	19.10			
20	256QAM	50	0	18.89	19.21	19.41			
20	256QAM	50	24	19.08	19.13	19.52	19.8	5	
20	256QAM	50	50	19.29	19.29	19.52			
20	256QAM	100	0	18.99	19.18	19.37			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.49	23.66	23.57		<10	
15	QPSK	1	48	23.34	23.49	23.54	24.8	0	
15	QPSK	50	0	23.22	23.24	23.49			
15	QPSK	50	0	22.61	22.69	22.38			
15	QPSK	50	24	22.73	22.67	22.67	23.8	1	
15	QPSK	50	50	22.51	22.57	22.52			
15	QPSK	75	0	22.55	22.57	22.78			
15	16QAM	1	0	22.94	23.01	22.89			
15	16QAM	1	48	22.75	22.90	22.85	23.8	1	
15	16QAM	50	0	22.78	22.87	22.71			
15	16QAM	50	0	21.27	21.64	21.70			
15	16QAM	50	24	21.48	21.67	21.67	22.8	2	
15	16QAM	50	50	21.54	21.49	21.61			
15	16QAM	75	0	21.42	21.34	21.75			
15	16QAM	100	0	21.39	21.39	21.68			
15	16QAM	1	33	21.88	21.78	21.84	22.8	2	
15	16QAM	1	74	21.43	21.62	21.64			
15	16QAM	50	0	20.57	20.59	20.43			
15	16QAM	50	24	20.61	20.61	20.61	21.8	3	
15	16QAM	50	50	20.47	20.88	20.90			
15	256QAM	1	0	19.61	19.64	19.51			
15	256QAM	1	33	19.11	19.11	19.11	19.8	5	
15	256QAM	1	74	18.83	19.28	19.38			
15	256QAM	50	0	18.94	19.28	19.37			
15	256QAM	50	24	18.95	19.05	19.47	19.8	5	
15	256QAM	50	50	18.87	19.18	19.45			
15	256QAM	75	0	18.96	19.06	19.48			
15	256QAM	100	0	18.92	19.12	19.49			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.72	23.53	23.67			
10	QPSK	1	24	23.49	23.49	23.49	24.8	0	
10	QPSK	25	0	23.33	23.33	23.33			
10	QPSK	25	0	22.56	22.43	22.56			
10	QPSK	25	12	22.66	22.64	22.66	23.8	1	
10	QPSK	25	24	22.43	22.43	22.43			
10	QPSK	50	0	22.54	22.66	22.78			
10	16QAM	1	0	22.97	23.03	22.94			
10	16QAM	1	24	22.78	22.87	22.87	23.8	1	
10	16QAM	1	48	22.89	22.89	22.77			
10	16QAM	25	0	21.29	21.48	21.58			
10	16QAM	25	12	21.75	21.38	21.76	22.8	2	
10	16QAM	25	24	21.63	21.63	21.62			
10	16QAM	50	0	21.48	21.49	21.66			
10	16QAM	50	0	21.80	21.83	21.69			
10	16QAM	50	24	21.63	21.63	21.63	22.8	2	
10	16QAM	1	48	21.48	21.65	21.49			
10	16QAM	25	0	20.59	20.72	20.44			
10	16QAM	25	12	20.61	20.61	20.61	21.8	3	
10	16QAM	25	24	20.57	20.57	20.65			
10	16QAM	50	0	20.50	20.58	20.67			
10	256QAM	1	0	19.22	19.28	19.30			
10	256QAM	1	24	18.94	19.28	19.35	19.8	5	
10	256QAM	1	48	19.44	19.27	19.51			
10	256QAM	25	0	18.76	19.14	19.35			
10	256QAM	25	12	19.05	19.05	19.05	19.8	5	
10	256QAM	25	24	18.86	19.28	19.45			
10	256QAM	50	0	18.90	19.08	19.28			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.56	23.69	23.55			
5	QPSK	1	12	23.27	23.54	23.58	24.8	0	
5	QPSK	25	0	23.15	23.15	23.15			
5	QPSK	12	0	22.62	22.61	22.45			
5	QPSK	12	7	22.61	22.67	22.72	23.8	1	
5	QPSK	12	19	22.45	22.45	22.45			
5	QPSK	25	0	22.48	22.48	22.71			
5	QPSK	25	7	22.47	22.50	22.71	23.8	1	
5	16QAM	1	0	23.07	23.00	23.07			
5	16QAM	1	12	22.66	23.07	23.01			
5	16QAM	1	24	22.77	22.77	22.81	23.8	1	
5	16QAM	12	0	21.29	21.60	21.60			
5	16QAM	12	7	21.58	21.55	21.78	22.8	2	
5	16QAM	12	19	21.63	21.63	21.63			
5	16QAM	25	0	21.44	21.54	21.73			
5	16QAM	1	0	21.57	21.96	21.95			
5	16QAM	1	12	21.61	21.74	21.74	22.8	2	
5	16QAM	1	24	21.62	21.63	21.68			
5	16QAM	12	0	20.30	20.78	20.48			
5	16QAM	12	7	20.49	20.49	20.67	21.8	3	
5	16QAM	12	19	20.42	20.42	20.42			
5	16QAM	25	0	20.47	20.65	20.61			
5	256QAM	1	0	19.28	19.12	19.31			
5	256QAM	1	12	18.94	19.28	19.36	19.8	5	
5	256QAM	1	24	18.83	19.40	19.47			
5	256QAM	12	0	18.74	19.17	19.27			
5	256QAM	12	7	18.96	19.35	19.44	19.8	5	
5	256QAM	12	19	18.94	19.26	19.27			
5	256QAM	25	0	18.89	19.15	19.35			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.78	23.58	23.40			
3	QPSK	1	8	23.35	23.52	23.43	24.8	0	
3	QPSK	1	16	23.28	23.47	23.50			
3	QPSK	1	24	22.45	22.45	22.50			
3	QPSK	8	0	22.81	22.89	22.52	23.8	1	
3	QPSK	8	7	22.66	22.43	22.67			
3	QPSK	8	16	22.66	22.66	22.66			
3	QPSK	1	0	22.58	22.80	22.91			
3	16QAM	1	8	22.79	23.03	22.94	23.8	1	
3	16QAM	1	16	22.79	22.79	22.79			
3	16QAM	8	0	21.33	21.48	21.55			
3	16QAM	8	4	21.59	21.63	21.70	22.8	2	
3	16QAM	8	7	21.57	21.53	21.71			
3	16QAM	8	16	21.47	21.47	21.74	22.8	2	
3	16QAM	1	0	21.75	21.97	21.68			
3	16QAM	8	8	21.43	21.97	21.78			
3	16QAM	8	16	21.72	21.72	21.72	21.8	3	
3	16QAM	8	0	20.54	20.73	20.47			
3	16QAM	8	4	20.47	20.47	20.47			
3	16QAM	16	0	20.53	20.59	20.58			
3	256QAM	1	0	19.26	19.07	19.13			
3	256QAM	1	8	18.90	19.06	19.27	19.8	5	
3	256QAM	1	16	18.77	19.04	19.10			
3	256QAM	8	0	18.79	19.18	19.28			
3	256QAM	8	4	18.95	19.08	19.45	19.8	5	
3	256QAM	16	0	18.93	19.11	19.26			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.56	23.74	23.58			
1.4	QPSK	1	3	23.36	23.75	23.74	24.8	0	
1.4	QPSK	1	5	23.59	23.66	23.59			
1.4	QPSK	1	7	23.81	23.85	23.85			
1.4	QPSK	3	0	22.85	22.92	22.91			
1.4	QPSK	3	3	22.83	22.81	22.82	23.8	1	
1.4	QPSK	3	5	22.86	22.87	22.87			
1.4	QPSK	3	7	23.05	23.14	23.16			
1.4	16QAM	1	0	22.96	23.08	23.10			
1.4	16QAM	1	3	22.88	23.00	22.95	23.8	1	
1.4	16QAM	1	5	21.98	22.07	22.07			
1.4	16QAM	1	7	21.88	21.83	21.91			
1.4	16QAM	3	0	21.83	21.84	21.83	22.8	2	
1.4	16QAM	3	3	21.78	21.78	21.78			
1.4	16QAM	1	0	21.85	21.97	22.03			
1.4	16QAM	3	0	21.80	21.99	21.98			
1.4	16QAM	3	3	21.91	21.91	21.91	22.8	2	
1.4	16QAM	3	5	20.72	20.88	20.87			
1.4	16QAM	3	7	20.69	20.86	20.84	21.8	3	
1.4	256QAM	1							



Reduced Power level 1 for Head – Ant1

Band 7 (2600MHz Band)													
Part 27													
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. (Freq)	Power Main Ch. (Freq)	Power High Ch. (Freq)	Time-up limit (min)	MPR (dB)					
Channel				20100	21100	21600							
Frequency (MHz)				20110	21110	21610							
20	QPSK	1	0	18.59	18.72	18.82	17.5	0					
20	QPSK	1	49	18.60	18.71	18.80							
20	QPSK	1	99	18.67	18.76	18.88							
20	QPSK	50	0	18.56	18.71	18.85							
20	QPSK	50	24	18.65	18.71	18.85	17.5	0					
20	QPSK	50	49	18.62	18.68	18.84							
20	QPSK	100	0	18.62	18.68	18.83							
20	16QAM	1	0	18.68	18.63	18.78							
20	16QAM	1	49	18.71	18.62	18.59	17.5	0					
20	16QAM	1	99	18.44	18.34	18.80							
20	16QAM	50	0	18.61	18.48	18.50							
20	16QAM	50	24	18.50	18.43	18.80	17.5	0					
20	16QAM	50	49	18.66	18.61	18.59							
20	16QAM	100	0	18.57	18.58	18.81							
20	64QAM	1	0	18.67	18.63	18.89	17.5	0					
20	64QAM	1	49	18.65	18.68	18.78							
20	64QAM	1	99	18.70	18.61	18.86							
20	64QAM	50	0	18.50	18.46	18.49							
20	64QAM	50	24	18.65	18.50	18.50	17.5	0					
20	64QAM	50	49	18.49	18.54	18.49							
20	64QAM	100	0	18.54	18.53	18.83							
20	256QAM	1	0	18.57	18.62	18.49	17.5	0					
20	256QAM	1	49	18.63	18.49	18.47							
20	256QAM	1	99	18.50	18.54	18.50							
20	256QAM	50	0	18.54	18.45	18.44							
20	256QAM	50	24	18.53	18.48	18.47	17.5	0					
20	256QAM	50	49	18.51	18.43	18.45							
20	256QAM	100	0	18.50	18.49	18.51							
Channel				20175	21175	21675							
Frequency (MHz)				20185	21185	21685							
15	QPSK	1	0	18.47	18.68	18.81	17.5	0					
15	QPSK	1	37	18.54	18.68	18.83							
15	QPSK	1	74	18.55	18.69	18.88							
15	QPSK	36	0	18.44	18.55	18.49							
15	QPSK	36	20	18.65	18.71	18.81	17.5	0					
15	QPSK	36	49	18.48	18.49	18.50							
15	QPSK	75	0	18.51	18.64	18.51							
15	16QAM	1	0	18.81	18.51	18.28							
15	16QAM	1	37	18.65	18.58	18.50	17.5	0					
15	16QAM	1	74	18.31	18.21	18.04							
15	16QAM	36	0	18.58	18.35	18.36							
15	16QAM	36	20	18.59	18.28	18.48							
15	16QAM	36	49	18.56	18.46	18.54	17.5	0					
15	16QAM	75	0	18.58	18.54	18.50							
15	64QAM	1	0	18.60	18.58	18.56							
15	64QAM	1	37	18.53	18.50	18.50	17.5	0					
15	64QAM	1	74	18.63	18.60	18.53							
15	64QAM	36	0	18.42	18.40	18.49							
15	64QAM	36	20	18.53	18.38	18.50							
15	64QAM	36	49	18.41	18.45	18.41	17.5	0					
15	64QAM	75	0	18.54	18.45	18.47							
15	256QAM	1	0	18.43	18.52	18.38							
15	256QAM	1	37	18.58	18.46	18.44	17.5	0					
15	256QAM	1	74	18.58	18.44	18.44							
15	256QAM	36	0	18.49	18.41	18.40							
15	256QAM	36	20	18.53	18.46	18.46							
15	256QAM	36	49	18.50	18.35	18.38	17.5	0					
15	256QAM	75	0	18.49	18.42	18.39							
Channel				20190	21190	21690							
Frequency (MHz)				20200	21200	21700							
10	QPSK	1	0	18.57	18.71	18.41	17.5	0					
10	QPSK	1	25	18.58	18.68	18.80							
10	QPSK	1	49	18.61	18.67	18.83							
10	QPSK	25	0	18.48	18.53	18.55							
10	QPSK	25	12	18.58	18.60	18.54	17.5	0					
10	QPSK	25	25	18.48	18.51	18.58							
10	QPSK	50	0	18.47	18.48	18.80							
10	16QAM	1	0	18.67	18.63	18.24							
10	16QAM	1	25	18.58	18.47	18.54	17.5	0					
10	16QAM	1	49	18.25	18.21	18.27							
10	16QAM	25	0	18.54	18.46	18.37							
10	16QAM	25	12	18.50	18.42	18.39							
10	16QAM	25	25	18.57	18.48	18.38	17.5	0					
10	16QAM	50	0	18.50	18.45	18.38							
10	64QAM	1	0	18.54	18.60	18.81							
10	64QAM	1	25	18.51	18.53	18.44	17.5	0					
10	64QAM	1	49	18.51	18.50	18.54							
10	64QAM	25	0	18.46	18.34	18.45							
10	64QAM	25	12	18.47	18.38	18.38							
10	64QAM	25	25	18.41	18.31	18.47	17.5	0					
10	64QAM	50	0	18.42	18.42	18.50							
10	256QAM	1	0	18.44	18.37	18.47							
10	256QAM	1	25	18.52	18.38	18.38							
10	256QAM	1	49	18.58	18.54	18.42	17.5	0					
10	256QAM	25	0	18.44	18.44	18.39							
10	256QAM	25	12	18.44	18.46	18.39							
10	256QAM	25	25	18.39	18.30	18.37							
10	256QAM	50	0	18.44	18.38	18.38	17.5	0					
Channel				20175	21108	21645							
Frequency (MHz)				20185	21108	21645							
5	QPSK	1	0	18.55	18.68	18.42	17.5		0				
5	QPSK	1	12	18.45	18.59	18.60							
5	QPSK	1	24	18.68	18.64	18.59							
5	QPSK	12	0	18.54	18.61	18.26							
5	QPSK	12	7	18.58	18.71	18.81	17.5	0					
5	QPSK	12	13	18.55	18.62	18.49							
5	16QAM	1	0	18.81	18.68	18.24							
5	16QAM	1	12	18.63	18.68	18.24							
5	16QAM	1	24	18.36	18.28	18.08	17.5	0					
5	16QAM	12	0	18.58	18.33	18.37							
5	16QAM	12	7	18.44	18.41	18.46							
5	16QAM	12	13	18.53	18.31	18.36							
5	64QAM	1	0	18.55	18.48	18.80	17.5	0					
5	64QAM	1	12	18.59	18.37	18.51							
5	64QAM	1	24	18.64	18.37	18.24							
5	64QAM	12	0	18.49	18.38	18.40							
5	64QAM	12	7	18.43	18.38	18.31	17.5	0					
5	64QAM	12	13	18.35	18.48	18.48							
5	64QAM	25	0	18.39	18.30	18.26							
5	64QAM	25	0	18.39	18.47	18.41							
5	256QAM												



Reduced Power level 2/3 for Head – Ant0

Band 7 (2400MHz Band) Part 27												
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. (Freq.)	Power Main Ch. (Freq.)	Power High Ch. (Freq.)	Time-up limit (min)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	18.59	18.72	18.82	17.5	0				
20	QPSK	1	49	18.82	18.71	18.88						
20	QPSK	1	99	18.87	18.74	18.88						
20	QPSK	50	0	18.55	18.64	18.81	17.5	0				
20	QPSK	50	24	18.85	18.71	18.85						
20	QPSK	50	49	18.82	18.65	18.82						
20	QPSK	100	0	18.52	18.65	18.82	17.5	0				
20	16QAM	1	0	18.63	18.63	18.78						
20	16QAM	1	49	18.71	18.62	18.78						
20	16QAM	1	99	18.44	18.54	18.80	17.5	0				
20	16QAM	50	0	18.62	18.48	18.92						
20	16QAM	50	24	18.58	18.43	18.88						
20	16QAM	50	49	18.68	18.67	18.88	17.5	0				
20	16QAM	100	0	18.58	18.58	18.81						
20	16QAM	1	0	18.87	18.83	18.69						
20	16QAM	1	49	18.92	18.98	18.92	17.5	0				
20	16QAM	1	99	18.72	18.67	18.88						
20	16QAM	50	0	18.52	18.48	18.49						
20	16QAM	50	24	18.53	18.48	18.47	17.5	0				
20	16QAM	50	49	18.51	18.43	18.45						
20	16QAM	100	0	18.50	18.45	18.51						
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.17	20.35	20.47	17.5	0				
20	QPSK	1	49	20.47	20.38	20.55						
20	QPSK	1	99	20.45	20.35	20.55						
20	QPSK	50	0	20.14	20.31	20.47	17.5	0				
20	QPSK	50	24	20.45	20.31	20.47						
20	QPSK	50	49	20.42	20.31	20.47						
20	QPSK	100	0	20.14	20.31	20.47	17.5	0				
20	16QAM	1	0	20.25	20.25	20.42						
20	16QAM	1	49	20.31	20.25	20.42						
20	16QAM	1	99	20.17	20.25	20.42	17.5	0				
20	16QAM	50	0	20.25	20.25	20.42						
20	16QAM	50	24	20.25	20.25	20.42						
20	16QAM	50	49	20.25	20.25	20.42	17.5	0				
20	16QAM	100	0	20.25	20.25	20.42						
20	256QAM	1	0	20.25	20.25	20.42						
20	256QAM	1	49	20.31	20.25	20.42	17.5	0				
20	256QAM	1	99	20.17	20.25	20.42						
20	256QAM	50	0	20.25	20.25	20.42						
20	256QAM	50	24	20.25	20.25	20.42	17.5	0				
20	256QAM	50	49	20.25	20.25	20.42						
20	256QAM	100	0	20.25	20.25	20.42						
Channel												
Frequency (MHz)												
15	QPSK	1	0	18.47	18.68	18.51	17.5	0				
15	QPSK	1	37	18.54	18.88	18.63						
15	QPSK	1	74	18.55	18.68	18.58						
15	QPSK	36	0	18.44	18.52	18.49	17.5	0				
15	QPSK	36	20	18.65	18.71	18.61						
15	QPSK	36	49	18.48	18.57	18.58						
15	QPSK	75	0	18.51	18.64	18.51	17.5	0				
15	16QAM	1	0	18.61	18.51	18.58						
15	16QAM	1	37	18.65	18.58	18.52						
15	16QAM	1	74	18.51	18.57	18.54	17.5	0				
15	16QAM	36	0	18.58	18.38	18.38						
15	16QAM	36	20	18.39	18.28	18.48						
15	16QAM	36	49	18.45	18.42	18.47	17.5	0				
15	16QAM	75	0	18.58	18.54	18.50						
15	16QAM	1	0	18.62	18.58	18.58						
15	16QAM	1	37	18.53	18.68	18.58	17.5	0				
15	16QAM	1	74	18.63	18.68	18.53						
15	16QAM	36	0	18.42	18.48	18.49						
15	16QAM	36	20	18.43	18.38	18.48	17.5	0				
15	16QAM	36	49	18.41	18.45	18.45						
15	16QAM	75	0	18.54	18.45	18.47						
15	256QAM	1	0	18.43	18.52	18.58	17.5	0				
15	256QAM	1	37	18.53	18.78	18.47						
15	256QAM	1	74	18.38	18.44	18.44						
15	256QAM	36	0	18.49	18.41	18.40	17.5	0				
15	256QAM	36	20	18.53	18.46	18.48						
15	256QAM	36	49	18.50	18.35	18.38						
15	256QAM	75	0	18.49	18.42	18.39	17.5	0				
Channel												
Frequency (MHz)												
10	QPSK	1	0	18.57	18.71	18.41	17.5	0				
10	QPSK	1	20	18.58	18.58	18.85						
10	QPSK	1	49	18.61	18.67	18.82						
10	QPSK	25	0	18.48	18.63	18.85	17.5	0				
10	QPSK	25	12	18.58	18.65	18.54						
10	QPSK	25	25	18.48	18.51	18.58						
10	QPSK	50	0	18.47	18.48	18.88	17.5	0				
10	16QAM	1	0	18.67	18.63	18.24						
10	16QAM	1	25	18.58	18.47	18.54						
10	16QAM	1	49	18.72	18.52	18.47	17.5	0				
10	16QAM	25	0	18.54	18.48	18.37						
10	16QAM	25	12	18.52	18.42	18.39						
10	16QAM	25	25	18.57	18.48	18.42	17.5	0				
10	16QAM	50	0	18.51	18.53	18.44						
10	16QAM	50	49	18.61	18.55	18.54						
10	16QAM	25	0	18.48	18.34	18.45	17.5	0				
10	16QAM	25	12	18.47	18.38	18.38						
10	16QAM	25	25	18.41	18.33	18.47						
10	16QAM	50	0	18.42	18.42	18.30	17.5	0				
10	256QAM	1	0	18.44	18.57	18.47						
10	256QAM	1	49	18.56	18.54	18.42						
10	256QAM	25	0	18.44	18.44	18.39	17.5	0				
10	256QAM	25	12	18.44	18.46	18.39						
10	256QAM	25	25	18.39	18.35	18.27						
10	256QAM	50	0	18.44	18.38	18.36	17.5	0				
Channel												
Frequency (MHz)												
5	QPSK	1	0	18.55	18.68	18.42	17.5	0				
5	QPSK	1	12	18.45	18.58	18.68						
5	QPSK	1	24	18.68	18.64	18.59						
5	QPSK	12	0	18.54	18.67	18.26	17.5	0				
5	QPSK	12	7	18.58	18.71	18.81						
5	QPSK	12	13	18.65	18.62	18.49						
5	QPSK	25	0	18.61	18.68	18.24	17.5	0				
5	16QAM	1	0	18.68	18.61	18.24						
5	16QAM	1	12	18.63	18.58	18.24						
5	16QAM	1	24	18.58	18.38	18.35	17.5	0				
5	16QAM	12	0	18.58	18.37	18.27						
5	16QAM	12	7	18.44	18.41	18.48						
5	16QAM	12	13	18.53	18.51	18.58	17.5	0				
5	16QAM	25	0	18.55	18.48	18.28						
5	16QAM	1	0	18.68	18.63	18.37						
5	16QAM	1	12	18.59	18.57	18.51	17.5	0				
5	16QAM	1	24	18.64	18.57	18.34						
5	16QAM	12	0	18.49	18.38	18.40						
5	16QAM	12	7	18.48	18.38	18.31	17.5	0				
5	16QAM	12	13	18.55	18.46	18.48						
5	16QAM	25	0	18.59	18.47	18.41						
5	256QAM	1	0	18.54	18.58	18.37	17.5	0				
5	256QAM	1	12	18.57	18.54	18.33						
5	256QAM	1	24	18.38	18.35	18.28						
5	256QAM	12	0	18.44	18.48	18.38	17.5	0				
5	256QAM	12	7	18.42	18.42	18.44						
5	256QAM	12	13	18.40	18.47	18.51						
5	256QAM	25	0	18.39	18.37	18.40	17.5	0				
Channel												
Frequency (MHz)												
3	QPSK	1	0	18.60	18.26	18.38	17	0				
3	QPSK	1	8	18.61	18.32	18.35						
3	QPSK	1	14	18.61	18.36	18.72						
3	QPSK	8	0	18.68	18.24	18.35	17	0				
3	QPSK	8	4	18.62	18.33	18.88						
3	QPSK	8	7	18.68	18.34	18.67						
3	QPSK	15	0	18.67	18.32	18.31	17	0				
3	16QAM	15	0	18.68	18.24	18.35						
3	16QAM	15	8	18.69	18.25	18.36						



Reduced power for Hotspot-on-Arnt0

Band 7 (2400MHz Band)									
Part 27									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. (Freq.)	Power Main Ch. (Freq.)	Power High Ch. (Freq.)	Time-up limit (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.66	17.66	17.66			
20	QPSK	1	49	17.65	17.65	17.65	18.5	0	
20	QPSK	1	99	17.67	17.66	17.70			
20	QPSK	50	0	17.67	17.72	17.83			
20	QPSK	50	24	17.83	17.74	17.67	18.5	0	
20	QPSK	50	49	17.82	17.73	17.77			
20	QPSK	100	0	17.66	17.71	17.84			
20	16QAM	1	0	17.55	17.57	17.46			
20	16QAM	1	49	17.55	17.57	17.48	18.5	0	
20	16QAM	1	99	17.55	17.45	17.59			
20	16QAM	50	0	17.54	17.60	17.49			
20	16QAM	50	24	17.70	17.65	17.54	18.5	0	
20	16QAM	50	49	17.67	17.70	17.87			
20	16QAM	100	0	17.64	17.67	17.54			
20	16QAM	1	0	17.58	17.53	17.60	18.5	0	
20	16QAM	1	49	17.62	17.56	17.56			
20	16QAM	1	99	17.58	17.55	17.51			
20	16QAM	50	0	17.54	17.55	17.56			
20	16QAM	50	24	17.58	17.56	17.57	18.5	0	
20	16QAM	50	49	17.70	17.67	17.80			
20	16QAM	100	0	17.54	17.55	17.54			
20	256QAM	1	0	17.57	17.57	17.46	18.5	0	
20	256QAM	1	49	17.51	17.50	17.61			
20	256QAM	1	99	17.54	17.60	17.59			
20	256QAM	50	0	17.42	17.58	17.48			
20	256QAM	50	24	17.67	17.46	17.45	18.5	0	
20	256QAM	50	49	17.62	17.60	17.43			
20	256QAM	100	0	17.52	17.58	17.41			
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.66	17.66	17.61			
15	QPSK	1	37	17.68	17.66	17.63	18.5	0	
15	QPSK	1	74	17.61	17.70	17.61			
15	QPSK	36	0	17.45	17.50	17.52			
15	QPSK	36	20	17.57	17.73	17.57	18.5	0	
15	QPSK	36	40	17.55	17.66	17.56			
15	QPSK	75	0	17.55	17.59	17.61			
15	16QAM	1	0	17.47	17.49	17.41			
15	16QAM	1	37	17.50	17.46	17.54	18.5	0	
15	16QAM	1	74	17.45	17.45	17.45			
15	16QAM	36	0	17.51	17.55	17.45			
15	16QAM	36	20	17.63	17.66	17.55	18.5	0	
15	16QAM	36	40	17.62	17.65	17.45			
15	16QAM	75	0	17.53	17.55	17.46			
15	16QAM	1	0	17.50	17.50	17.57	18.5	0	
15	16QAM	1	37	17.59	17.56	17.46			
15	16QAM	1	74	17.63	17.66	17.46			
15	16QAM	36	0	17.53	17.49	17.50			
15	16QAM	36	20	17.59	17.60	17.59	18.5	0	
15	16QAM	36	40	17.51	17.50	17.50			
15	16QAM	75	0	17.53	17.53	17.45			
15	256QAM	1	0	17.53	17.54	17.59	18.5	0	
15	256QAM	1	37	17.45	17.45	17.45			
15	256QAM	1	74	17.52	17.47	17.44			
15	256QAM	36	0	17.22	17.57	17.44	18.5	0	
15	256QAM	36	20	17.66	17.54	17.46			
15	256QAM	36	40	17.52	17.58	17.55			
15	256QAM	75	0	17.49	17.57	17.39			
Channel									
Frequency (MHz)									
10	QPSK	1	0	17.61	17.47	17.59			
10	QPSK	1	26	17.54	17.66	17.85	18.5	0	
10	QPSK	1	49	17.58	17.71	17.82			
10	QPSK	25	0	17.64	17.66	17.52			
10	QPSK	25	12	17.57	17.70	17.54	18.5	0	
10	QPSK	25	25	17.57	17.66	17.56			
10	QPSK	12	0	17.47	17.63	17.61			
10	16QAM	1	0	17.51	17.47	17.36			
10	16QAM	1	25	17.48	17.36	17.44	18.5	0	
10	16QAM	25	0	17.45	17.46	17.45			
10	16QAM	25	0	17.48	17.50	17.43			
10	16QAM	25	12	17.55	17.53	17.29	18.5	0	
10	16QAM	25	25	17.57	17.46	17.41			
10	16QAM	50	0	17.57	17.54	17.45			
10	16QAM	1	0	17.52	17.49	17.52			
10	16QAM	1	25	17.48	17.65	17.57	18.5	0	
10	16QAM	1	49	17.54	17.59	17.62			
10	16QAM	25	0	17.47	17.46	17.46			
10	16QAM	25	12	17.57	17.58	17.63	18.5	0	
10	16QAM	25	25	17.57	17.53	17.45			
10	16QAM	50	0	17.57	17.55	17.45			
10	256QAM	1	0	17.44	17.45	17.52	18.5	0	
10	256QAM	1	25	17.50	17.46	17.56			
10	256QAM	1	49	17.55	17.46	17.55			
10	256QAM	25	0	17.27	17.46	17.39			
10	256QAM	25	12	17.56	17.44	17.34	18.5	0	
10	256QAM	25	25	17.58	17.50	17.37			
10	256QAM	50	0	17.46	17.46	17.36			
Channel									
Frequency (MHz)									
5	QPSK	1	0	17.62	17.47	17.51			
5	QPSK	1	12	17.55	17.66	17.63	18.5	0	
5	QPSK	1	24	17.65	17.75	17.67			
5	QPSK	12	0	17.61	17.71	17.56			
5	QPSK	12	7	17.63	17.71	17.57	18.5	0	
5	QPSK	12	13	17.49	17.66	17.62			
5	QPSK	25	0	17.60	17.66	17.53			
5	16QAM	1	0	17.42	17.58	17.47			
5	16QAM	1	12	17.45	17.45	17.36	18.5	0	
5	16QAM	1	24	17.42	17.46	17.41			
5	16QAM	12	0	17.47	17.66	17.46			
5	16QAM	12	7	17.70	17.58	17.53	18.5	0	
5	16QAM	12	13	17.60	17.65	17.58			
5	16QAM	25	0	17.67	17.67	17.42			
5	16QAM	1	0	17.55	17.49	17.58			
5	16QAM	1	12	17.33	17.67	17.51	18.5	0	
5	16QAM	1	24	17.54	17.60	17.44			
5	16QAM	12	0	17.51	17.47	17.42			
5	16QAM	12	7	17.64	17.58	17.62	18.5	0	
5	16QAM	12	13	17.64	17.66	17.42			
5	16QAM	25	0	17.61	17.55	17.59			
5	16QAM	1	0	17.43	17.52	17.50	18.5	0	
5	256QAM	1	12	17.44	17.56	17.49			
5	256QAM	1	24	17.45	17.50	17.45			
5	256QAM	12	0	17.59	17.52	17.41			
5	256QAM	12	7	17.64	17.58	17.53	18.5	0	
5	256QAM	12	13	17.62	17.54	17.52			
5	256QAM	25	0	17.50	17.45	17.50			

Band 66									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. (130922)	Power Main Ch. (130922)	Power High Ch. (130922)	Time-up limit (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.81	16.80	16.85			
20	QPSK	1	49	16.74	16.80	16.83	17.8	0	
20	QPSK	1	99	16.81	16.72	16.87			
20	QPSK	50	0	16.69	16.74	16.76			
20	QPSK	50	24	16.78	16.86	16.83	17.8	0	
20	QPSK	50	49	16.73	16.75	16.77			
20	QPSK	100	0	16.76	16.84	16.82			
20	16QAM	1	0	16.62	16.80	16.79			
20	16QAM	1	49	16.66	16.75	16.79	17.8	0	
20	16QAM	1	99	16.63	16.83	16.98			
20	16QAM	50	0	16.61	16.74	16.73			
20	16QAM	50	24	16.66	16.80	16.86	17.8	0	
20	16QAM	50	49	16.64	16.72	16.82			
20	16QAM	100	0	16.70	16.86	16.77			
20	16QAM	1	0	16.62	16.63	16.75	17.8	0	
20	16QAM	1	49	16.71	16.82	16.82			
20	16QAM	1	99	16.66	16.80	16.72			
20	16QAM	50	0	16.71	16.76	16.72			
20	16QAM	50	24	16.67	16.67	16.61	17.8	0	
20	16QAM	50	49	16.68	16.67	16.61			
20	16QAM	100	0	16.61	16.62	16.66			
20	256QAM	1	0	16.61	16.72	16.76	17.8	0	
20	256QAM	1	49	16.68	16.81	16.73			
20	256QAM	1	99	16.64	16.69	16.65			
20	256QAM	50	0	16.67	16.60	16.60			
20	256QAM	50	24	16.60	16.67	16.66	17.8	0	
20	256QAM	50	49	16.55	16.61	16.52			
20	256QAM	100	0	16.61	16.59	16.50			
Channel					130940	130922	130922	Time-up limit (min)	MFR (dB)
Frequency (MHz)					17.71	17.61	17.72		
15	QPSK	1	0	16.74	16.80	16.81			
15	QPSK	1	49	16.67	16.80	16.83	17.8	0	
15	QPSK	1	99	16.81	16.72	16.79			
15	QPSK	50	0	16.63	16.69	16.73			
15	QPSK	50	24	16.64	16.76	16.75	17.8	0	
15	QPSK	50	49	16.70	16.68	16.68			
15	QPSK	75	0	16.67	16.82	16.80			
15	16QAM	1	0	16.62	16.80	16.79			
15	16QAM	1	49	16.68	16.77	16.80	17.8	0	
15	16QAM	1	99	16.66	16.87	16.98			
15	16QAM	50	0	16.58	16.71	16.75			
15	16QAM	50	24	16.64	16.76	16.75	17.8	0	
15	16QAM	50	49	16.63	16.68	16.76			
15	16QAM	75	0	16.72	16.81	16.79			
15	16QAM	1	0	16.70	16.81	16.75			
15	16QAM	1	49	16.75	16.78	16.80	17.8	0	
15	16QAM	1	99	16.68	16.83	16.48			
15	16QAM	50	0	16.66	16.53	16.57			
15	16QAM	50	24	16.64	16.66	16.68	17.8	0	
15	16QAM	50	49	16.65	16.64	16.68			
15	256QAM	1	0	16.56	16.67	16.67	17.8	0	
15	256QAM	1	49	16.69	16.87	16.81			
15	256QAM	1	99	16.67	16.80	16.75			
15	256QAM	50	0	16.60	16.60	16.60	17.8	0	
15	256QAM	50	24	16.52	16.55	16.56			
15	256QAM	50	49	16.53	16.55	16.46			
15	256QAM	75	0	16.59	16.72	16.46			
Channel					130950	130922	130922	Time-up limit (min)	MFR (dB)
Frequency (MHz)					17.15	17.45	17.72		
10	QPSK	1	0	16.76	16.85	16.75			
10	QPSK	1	49	16.61	16.80	16.83	17.8	0	
10	QPSK	1	99	16.81	16.63	16.68			
10	QPSK	25	0	16.58	16.58	16.65			
10	QPSK	25	12	16.78	16.72	16.68	17.8	0	
10	QPSK	25	24	16.66	16.66	16.68			
10	QPSK	50	0	16.66	16.78	16.78			
10	16QAM	1	0	16.58	16.65	16.72			
10	16QAM	1	49	16.64	16.66	16.68	17.8	0	
10	16QAM	1	99	16.60	16.74	16.54			
10	16QAM	25	0	16.61	16.73	16.83			
10	16QAM	25	12	16.72	16.72	16.71	17.8	0	
10	16QAM	25	24	16.60	16.70	16.70			
10	16QAM	50	0	16.72	16.66	16.70			
10	16QAM	1	0	16.76	16.75	16.81			
10	16QAM	1	49	16.82	16.72	16.78	17.8	0	
10	16QAM	1	99	16.73	16.78	16.71			
10	16QAM	25	0	16.70	16.63	16.68			
10	16QAM	25	12	16.84	16.68	16.68	17.8	0	
10	16QAM	25	24	16.58	16.58	16.53			
10	16QAM	50	0	16.54	16.63	16.55			
10	16QAM	50	12	16.66	16.73	16.73	17.8	0	
10	16QAM	1	0	16.84	16.69	16.67			
10	256QAM	1	0	16.64	16.59	16.53	17.8	0	
10	256QAM	1	49	16.74	16.87	16.81			
10	256QAM	1	99	16.67	16.80	16.75			
10	256QAM	25	0	16.56	16.56	16.51			
10	256QAM	25	12	16.48	16.42	16.35	17.8	0	
10	256QAM	25	24	16.53	16.52	16.46			
Channel					130950	130922	130922	Time-up limit (min)	MFR (dB)
Frequency (MHz)					17.15	17.45	17.72		
5	QPSK	1	0	16.87	16.79	16.74			
5	QPSK	1	12	16.62	16.75	16.81	17.8	0	
5	QPSK	1	49	16.81	16.63	16.68			
5	QPSK	12	0	16.81	16.66	16.76			
5	QPSK	12	7	16.77	16.84	16.77	17.8	0	
5	QPSK	25	0	16.65	16.65	16.70			
5	QPSK	25	0	16.67	16.76	16.77			
5	16QAM	1	0	16.65	16.79	16.78			
5	16QAM	1	12	16.68	16.71	16.73	17.8	0	
5	16QAM	1	49	16.74	16.80	16.81			
5	16QAM	12	0	16.82	16.68	16.73			
5	16QAM	12	7	16.83	16.60	16.66	17.8	0	
5	16QAM	25	0	16.65	16.65	16.62			
5	16QAM	25	0	16.81	16.65	16.65			
5	16QAM	1	0	16.73	16.75	16.75	17.8	0	
5	16QAM	1	12	16.76	16.76	16.76			
5	16QAM	1	24	16.68	16.78	16.78	17.8	0	
5	16QAM	12	0	16.82	16.68	16.72			
5	16QAM	12	7	16.80	16.67	16.73	17.8	0	
5	16QAM	25	0	16.81	16.68	16.68			
5	256QAM	1	0	16.59	16.62	16.67			
5	256QAM	1	12	16.60	16.62	16.74	17.8	0	
5	256QAM	1	49	16.65	16.77	16.64			
5	256QAM	1	24	16.57	16.66	16.58			
5	256QAM	12	0	16.62	16.55	16.58			
5	256QAM	12	7	16.63	16.44	16.54	17.8	0	
5	256QAM	12	13	16.52	16.41	16.48			
5	256QAM	25	0	16.49	16.45	16.45			
Channel					130950	130922	130922	Time-up limit (min)	MFR (dB)
Frequency (MHz)					17.15	17.45	17.72		
3	QPSK	1	0	16.79	16.81	16.83			
3	QPSK	1	8	16.67	16.82	16.85	17.8	0	
3	QPSK	1	49	16.80	16.72	16.80			
3	QPSK	8	0	16.60	16.62	16.62			
3	QPSK	8	4	16.74	16.81	16.78	17.8	0	
3	QPSK	1	7	16.62	16.67	16.65			
3	QPSK	1	9	16.73	16.80	16.80			
3	16QAM	1	0	16.53	16.71	16.68	17.8	0	
3	16QAM	1	8	16.49	16.60	16.64			
3	16QAM	1	49	16.71	16.75	16.75			
3	16QAM	8	0	16.48	16.67	16.67			
3	16QAM	8	4	16.51	16.57	16.54	17.8	0	
3	16QAM	1	7	16.67	16.67	16.67			
3	16QAM	1	9	16.71	16.64	16.71			
3	16QAM	1	0	16.72	16.81	16.81	17.8	0	
3	16QAM	1	8	16.71	16.62	16.77			
3	16QAM	1	49	16.74	16.82	16.82			
3	16QAM	8	0	16.71	16.62	16.62			
3	16QAM	8	4	16.74	16.55	16.58			
3	16QAM	1	7	16.67	16.67	16.67	17.8	0	
3	16QAM	1	9	16.72	16.64	16.72			
3	256QAM	1	0	16.57	16.52	16.65			
3	256QAM	1	8	16.67	16.61	16.64			
3	256QAM	1	49	16.71	16.71	16.71	17.8	0	
3	256QAM	1	14	16.69	16.66	16.66			
3	256QAM	8	0	16.67	16.55	16.51			
3	256QAM	8	4	16.56	16.42	16.43	17.8	0	
3	256QAM	1	7	16.61	16.59	16.62			
3	256QAM	1	9	16.53	16.33	16.40			
Channel					130950	130922	130922	Time-up limit (min)	MFR (dB)
Frequency (MHz)					17.15	17.45	17.72		
1.4	QPSK	1	0	16.73	16.78	16.74			
1.4	QPSK	1	3	16.74	16.75	16.75	17.8	0	
1.4	QPSK	1	3	16.56	16.69	16.62			
1.4	QPSK	1	3	16.62	16.68	16.68			
1.4	QPSK	1	3	16.79	16.81	16.79			
1.4	QPSK	3	3	16.71	16.69	16.73	17.8	0	
1.4	QPSK	3	3	16.70	16.70	16.70			
1.4	16QAM	1	0	16.55	16.78	16.64			
1.4	16QAM	1	3	16.53	16.61	16.61			
1.4	16QAM	1	3	16.64	16.62	16.64	17.8	0	
1.4	16QAM	3	3	16.64	16.64	16.67			
1.									

Band 7 (600MHz Band)										Band 66									
Part 27										Part 27									
SW (MHz)	Modulation	RB Size	RB Offset	Power Class (W)	Power Mdn Ch. Freq.	Power High Ch. Freq.	Time-on-Air (min)	MPE (dB)		SW (MHz)	Modulation	RB Size	RB Offset	Power Class (W)	Power Mdn Ch. Freq.	Power High Ch. Freq.	Time-on-Air (min)	MPE (dB)	
Channel										Channel									
Frequency (MHz)										Frequency (MHz)									
20	QPSK	1	0	21.30	21.31	21.30				20	QPSK	1	0	18.33	18.37	18.33	10	0	
20	QPSK	1	4	21.33	21.31	21.37				20	QPSK	1	24	18.36	18.33	18.34	10	0	
20	QPSK	1	8	21.44	21.46	21.40				20	QPSK	1	8	18.36	18.07	18.04	10	0	
20	QPSK	36	1	21.23	21.34	21.35				20	QPSK	36	5	18.51	18.33	18.35	10	0	
20	QPSK	36	5	21.36	21.36	21.36				20	QPSK	36	5	18.36	18.34	18.36	10	0	
20	QPSK	50	50	21.32	21.32	21.22				20	QPSK	50	50	18.34	18.25	18.12	10	0	
20	QPSK	100	0	21.32	21.30	21.34				20	QPSK	100	0	18.28	18.32	18.14	10	0	
20	QPSK	1	0	21.33	21.31	21.27				20	QPSK	1	0	18.33	18.34	18.24	10	0	
20	16QAM	36	49	21.19	21.27	21.18				20	16QAM	36	49	18.32	18.25	18.14	10	0	
20	16QAM	1	59	21.24	21.22	21.29				20	16QAM	1	59	18.28	18.36	18.26	10	0	
20	16QAM	36	5	21.31	21.29	21.23				20	16QAM	36	5	18.34	18.27	18.16	10	0	
20	16QAM	50	37	21.28	21.27	21.26				20	16QAM	50	37	18.34	18.22	18.15	10	0	
20	16QAM	50	50	21.28	21.33	21.38				20	16QAM	50	50	18.19	18.36	18.17	10	0	
20	16QAM	100	0	21.36	21.28	21.24				20	16QAM	100	0	18.18	18.16	18.28	10	0	
20	64QAM	36	1	21.36	21.37	21.36				20	64QAM	36	1	18.36	18.34	18.36	10	0	
20	64QAM	1	40	21.26	21.30	21.32				20	64QAM	1	40	17.99	18.05	18.06	10	0	
20	64QAM	1	59	21.28	21.28	21.11				20	64QAM	1	59	18.26	18.29	18.26	10	0	
20	64QAM	36	50	21.40	21.27	21.29				20	64QAM	36	50	17.95	18.23	18.21	10	0	
20	64QAM	50	25	21.18	21.25	21.25				20	64QAM	50	25	17.97	18.23	18.25	10	0	
20	64QAM	50	50	21.22	21.34	21.28				20	64QAM	50	50	18.17	18.22	18.15	10	0	
20	256QAM	1	0	21.29	21.34	21.27				20	256QAM	1	0	18.15	18.26	18.23	10	0	
20	256QAM	1	37	20.25	20.22	20.28				20	256QAM	1	37	18.28	18.22	18.24	10	0	
20	256QAM	1	49	19.22	19.09	19.14				20	256QAM	1	49	18.13	18.28	18.17	10	0	
20	256QAM	1	59	19.20	18.09	19.18				20	256QAM	1	59	18.15	18.19	18.09	10	0	
20	256QAM	36	2	19.18	19.07	19.07				20	256QAM	36	2	18.18	18.21	18.13	10	0	
20	256QAM	36	24	19.13	19.15	19.18				20	256QAM	36	24	18.14	18.11	18.18	10	0	
20	256QAM	50	50	19.12	19.12	19.18				20	256QAM	50	50	18.10	18.31	18.11	10	0	
20	256QAM	100	0	19.01	19.04	19.06				20	256QAM	100	0	18.16	18.17	18.25	10	0	
Channel										Channel									
Frequency (MHz)										Frequency (MHz)									
16	QPSK	1	0	21.17	21.19	21.27				16	QPSK	1	0	18.08	18.13	18.07	10	0	
16	QPSK	1	20	21.16	21.12	21.19				16	QPSK	1	11	17.91	18.11	17.92	10	0	
16	QPSK	1	74	21.25	21.24	21.18				16	QPSK	1	74	17.89	17.83	17.77	10	0	
16	QPSK	36	5	21.05	21.17	21.23				16	QPSK	36	0	17.85	17.88	17.88	10	0	
16	QPSK	36	20	21.13	21.28	21.18				16	QPSK	36	20	18.00	18.14	17.85	10	0	
16	QPSK	36	24	21.15	21.26	21.20				16	QPSK	36	24	17.97	17.87	17.89	10	0	
16	QPSK	75	0	21.22	21.13	21.18				16	QPSK	75	0	18.02	18.03	17.88	10	0	
16	QPSK	75	37	21.26	21.05	21.08				16	16QAM	1	0	17.99	18.10	17.86	10	0	
16	QPSK	75	50	20.25	20.22	20.28				16	16QAM	1	37	18.11	18.02	17.84	10	0	
16	16QAM	1	74	21.10	21.10	21.15				16	16QAM	1	74	18.05	18.13	18.05	10	0	
16	16QAM	36	0	21.08	20.95	21.03				16	16QAM	36	0	17.94	17.89	17.82	10	0	
16	16QAM	36	2	21.08	21.07	20.97				16	16QAM	36	2	17.97	17.84	17.83	10	0	
16	16QAM	36	25	21.09	21.21	21.12				16	16QAM	36	25	17.90	18.10	17.95	10	0	
16	16QAM	75	0	21.15	21.11	21.04				16	16QAM	75	0	17.80	17.84	17.80	10	0	
16	64QAM	1	0	20.86	21.21	20.88				16	64QAM	1	0	18.03	18.05	18.06	10	0	
16	64QAM	1	40	21.11	21.08	21.05				16	64QAM	1	40	17.97	17.94	17.93	10	0	
16	64QAM	1	74	21.06	21.10	20.95				16	64QAM	1	74	18.00	18.00	17.98	10	0	
16	64QAM	36	0	21.00	21.09	20.99				16	64QAM	36	0	17.89	18.05	17.88	10	0	
16	64QAM	36	2	20.95	21.00	20.95				16	64QAM	36	2	17.92	17.87	17.85	10	0	
16	64QAM	36	39	21.19	21.12	21.25				16	64QAM	36	39	17.94	18.03	17.83	10	0	
16	64QAM	75	0	21.11	21.09	21.02				16	64QAM	75	0	17.84	17.92	17.88	10	0	
16	256QAM	1	0	20.86	21.21	20.88				16	256QAM	1	0	17.87	17.96	17.84	10	0	
16	256QAM	1	37	19.06	18.96	19.05				16	256QAM	1	37	17.83	17.93	17.94	10	0	
16	256QAM	1	74	19.05	19.04	18.95				16	256QAM	1	74	17.93	17.93	17.79	10	0	
16	256QAM	36	0	18.91	18.88	19.01				16	256QAM	36	0	17.89	17.93	17.89	10	0	
16	256QAM	36	2	18.90	18.91	18.89				16	256QAM	36	2	17.87	17.87	17.86	10	0	
16	256QAM	36	24	18.93	18.93	18.88				16	256QAM	36	24	17.85	18.06	17.85	10	0	
16	256QAM	75	0	18.86	18.96	18.86				16	256QAM	75	0	17.93	17.87	17.91	10	0	
Channel										Channel									
Frequency (MHz)										Frequency (MHz)									
10	QPSK	1	0	21.09	21.11	21.18				10	QPSK	1	0	18.12	18.11	18.12	10	0	
10	QPSK	1	25	21.21	21.05	21.03				10	QPSK	1	25	17.76	18.00	17.74	10	0	
10	QPSK	1	49	21.13	21.18	21.18				10	QPSK	1	49	17.86	17.86	17.86	10	0	
10	QPSK	20	0	21.13	21.18	21.18				10	QPSK	20	0	17.84	18.04	17.85	10	0	
10	QPSK	25	12	21.23	21.21	21.23				10	QPSK	25	12	17.87	18.09	17.88	10	0	
10	QPSK	25	13	21.15	21.20	21.20				10	QPSK	25	13	17.87	18.03	17.84	10	0	
10	QPSK	50	0	21.20	21.12	21.21				10	QPSK	50	0	17.96	18.10	17.96	10	0	
10	16QAM	1	0	21.08	21.07	21.07				10	16QAM	1	0	18.01	18.04	17.92	10	0	
10	16QAM	1	25	20.91	21.14	20.98				10	16QAM	1	25	17.87	17.85	17.89	10	0	
10	16QAM	1	49	20.95	21.08	21.07				10	16QAM	1	49	18.00	18.00	18.00	10	0	
10	16QAM	20	0	21.19	21.02	21.03				10	16QAM	20	0	17.82	17.85	17.88	10	0	
10	16QAM	25	12	20.99	21.08	21.12				10	16QAM	25	12	17.83	17.89	18.05	10	0	
10	16QAM	25	13	21.15	21.07	21.07				10	16QAM	25	13	17.87	17.87	17.83	10	0	
10	16QAM	50	0	21.18	21.07	21.08				10	16QAM	50	0	17.89	17.95	17.94	10	0	
10	64QAM	1	0	21.03	21.16	20.91				10	64QAM	1	0	18.04	18.08	18.03	10	0	
10	64QAM	1	36	21.18	21.20	21.22				10	64QAM	1	36	17.73	17.98	18.13	10	0	
10	64QAM	1	49	21.16	21.03	20.92				10	64QAM	1	49	17.99	17.94	18.08	10	0	
10	64QAM	25	0	21.05	21.16	21.07				10	64QAM	25	0	17.89	18.01	17.95	10	0	
10	64QAM	25	12	20.92	21.08	20.99				10	64QAM	25	12	17.89	18.00	17.97	10	0	
10	64QAM	25	24	21.14	21.09	21.01				10	64QAM	25	24	17.91	17.87	17.81	10	0	
10	64QAM	50	0	21.16	21.25	21.11				10	64QAM	50	0	17.95	18.06	18.05	10	0	
10	256QAM	1	0	19.11	19.04	19.03				10	256QAM	1	0	17.87	17.99	17.88	10	0	
10	256QAM	1	36	19.12	19.06	18.98				10	256QAM	1	36	17.92	17.93	17.85	10	0	
10	256QAM	1	49	19.06	18.9														



Full Power Mode - Ant1

Band 7 (2400MHz Band)									
Part 27									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. (Freq.)	Power High Ch. (Freq.)	Power Top Ch. (Freq.)	Time-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	24.13	24.10	23.96			
20	QPSK	1	49	24.12	24.10	23.96	24.8	0	
20	QPSK	1	99	24.15	24.10	24.00			
20	QPSK	50	0	23.21	23.20	23.12			
20	QPSK	50	24	23.26	23.26	23.13	23.8	1	
20	QPSK	50	24	23.24	23.24	23.10			
20	QPSK	100	0	23.24	23.25	23.10			
20	16QAM	1	0	23.53	23.51	23.34			
20	16QAM	1	49	23.50	23.49	23.30	23.8	1	
20	16QAM	1	99	23.51	23.49	23.30			
20	16QAM	50	0	22.33	22.30	22.15			
20	16QAM	50	24	22.28	22.23	22.17	22.8	2	
20	16QAM	50	50	22.27	22.27	22.11			
20	16QAM	100	0	22.26	22.25	22.12			
20	16QAM	1	0	22.43	22.39	22.26	22.8	2	
20	16QAM	1	49	22.42	22.39	22.26			
20	16QAM	1	99	22.11	22.10	22.07			
20	16QAM	50	0	21.16	21.20	21.17	21.8	3	
20	16QAM	50	24	21.13	21.20	21.10			
20	16QAM	50	50	20.92	21.20	21.13			
20	16QAM	100	0	20.92	21.20	21.10			
20	256QAM	1	0	19.12	19.10	19.00	19.8	5	
20	256QAM	1	49	19.23	19.24	19.20			
20	256QAM	1	99	19.22	19.23	19.24			
20	256QAM	50	0	19.09	19.22	19.19			
20	256QAM	50	24	19.12	19.11	19.10	19.8	5	
20	256QAM	50	50	19.22	19.10	19.10			
20	256QAM	100	0	19.16	19.05	19.14			
Channel									
Frequency (MHz)									
15	QPSK	1	0	24.08	24.14	23.82	24.8	0	
15	QPSK	1	37	24.10	24.14	23.91			
15	QPSK	1	74	24.06	24.10	23.90			
15	QPSK	36	0	23.30	23.19	23.11	23.8	1	
15	QPSK	36	20	23.30	23.24	23.15			
15	QPSK	36	17	23.17	23.20	23.10			
15	QPSK	75	0	23.14	23.13	23.10			
15	16QAM	1	0	23.58	23.67	23.91	23.8	1	
15	16QAM	1	37	23.58	23.71	23.91			
15	16QAM	1	74	23.42	23.37	23.91			
15	16QAM	36	0	22.20	22.20	22.04	22.8	2	
15	16QAM	36	20	22.24	22.27	22.09			
15	16QAM	36	17	22.22	22.20	22.10			
15	16QAM	75	0	22.18	22.15	22.02			
15	16QAM	1	0	22.44	22.44	22.24	22.8	2	
15	16QAM	1	37	22.12	22.10	22.00			
15	16QAM	1	74	21.99	22.00	22.12			
15	16QAM	36	0	21.10	21.20	21.10	21.8	3	
15	16QAM	36	20	21.25	21.20	21.00			
15	16QAM	36	17	21.21	21.20	21.00			
15	16QAM	75	0	21.04	21.10	21.00			
15	256QAM	1	0	19.14	19.02	19.19	19.8	5	
15	256QAM	1	37	19.11	19.14	19.10			
15	256QAM	1	74	19.18	19.10	19.20			
15	256QAM	36	0	19.15	19.30	19.30	19.8	5	
15	256QAM	36	20	19.22	19.10	19.20			
15	256QAM	36	17	19.23	19.08	19.12			
15	256QAM	75	0	19.13	19.04	19.17			
Channel									
Frequency (MHz)									
10	QPSK	1	0	24.00	24.17	23.99	24.8	0	
10	QPSK	1	20	23.92	23.94	23.96			
10	QPSK	1	49	23.97	24.00	23.99			
10	QPSK	25	0	23.20	23.20	23.12	23.8	1	
10	QPSK	25	12	23.20	23.20	23.09			
10	QPSK	25	25	23.28	23.17	23.09			
10	QPSK	50	0	23.20	23.18	23.12	23.8	1	
10	16QAM	1	0	23.07	23.17	23.07	23.8	1	
10	16QAM	1	25	23.21	23.20	23.01			
10	16QAM	25	0	23.31	23.30	23.09			
10	16QAM	25	0	23.14	23.10	23.10	22.8	2	
10	16QAM	25	12	22.13	22.20	22.16			
10	16QAM	25	25	22.33	22.33	21.87			
10	16QAM	50	0	22.34	22.25	22.00			
10	16QAM	1	0	22.40	22.20	22.34	22.8	2	
10	16QAM	1	25	22.45	22.25	22.12			
10	16QAM	1	49	22.05	22.30	21.00			
10	16QAM	25	0	21.11	21.31	21.06	21.8	3	
10	16QAM	25	12	21.10	21.20	21.10			
10	16QAM	25	25	21.01	21.27	21.11			
10	16QAM	50	0	20.98	21.25	21.12			
10	256QAM	1	0	19.22	19.00	19.30	19.8	5	
10	256QAM	1	25	19.04	19.10	19.01			
10	256QAM	1	49	19.10	19.10	19.10			
10	256QAM	25	0	19.31	19.20	19.10	19.8	5	
10	256QAM	25	12	19.04	19.07	19.12			
10	256QAM	25	25	19.02	19.10	19.00			
10	256QAM	50	0	19.22	19.00	19.31			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.98	24.10	23.94	24.8	0	
5	QPSK	1	12	24.03	24.00	23.99			
5	QPSK	1	24	24.00	24.00	23.94			
5	QPSK	12	0	23.21	23.20	23.14	23.8	1	
5	QPSK	12	7	23.22	23.24	23.00			
5	QPSK	12	13	23.25	23.21	23.06			
5	QPSK	25	0	23.20	23.20	23.08	23.8	1	
5	16QAM	1	0	23.62	23.72	23.09			
5	16QAM	1	12	23.62	23.70	23.25	23.8	1	
5	16QAM	1	24	23.68	23.60	23.00			
5	16QAM	12	0	22.30	22.20	22.00			
5	16QAM	12	7	22.28	22.20	22.02	22.8	2	
5	16QAM	12	13	22.27	22.21	21.98			
5	16QAM	25	0	22.28	22.31	22.11			
5	16QAM	1	0	22.26	22.10	22.10	22.8	2	
5	16QAM	1	12	22.38	22.01	21.89			
5	16QAM	1	24	21.90	22.00	22.00			
5	16QAM	12	0	21.10	21.10	20.99	21.8	3	
5	16QAM	12	7	21.29	21.27	21.07			
5	16QAM	12	13	21.42	21.40	20.90			
5	16QAM	25	0	21.13	21.25	20.91			
5	256QAM	1	0	19.00	19.10	19.21	19.8	5	
5	256QAM	1	12	19.23	19.24	19.27			
5	256QAM	1	24	19.17	19.10	19.20			
5	256QAM	12	0	19.19	19.20	19.06	19.8	5	
5	256QAM	12	7	19.02	19.07	19.00			
5	256QAM	12	13	19.02	19.00	19.00			
5	256QAM	25	0	19.24	19.00	19.00			

Band 66									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. (MHz)	Power High Ch. (MHz)	Power Top Ch. (MHz)	Time-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)				130972	130972	130972			
20	QPSK	1	0	23.78	23.78	23.70			
20	QPSK	1	49	23.72	23.80	23.60	24.8	0	
20	QPSK	1	99	23.67	23.58	23.53			
20	QPSK	50	0	22.70	22.77	22.70			
20	QPSK	50	24	22.78	22.81	22.73	23.8	1	
20	QPSK	50	50	22.70	22.71	22.71			
20	QPSK	100	0	22.70	22.70	22.70			
20	16QAM	1	0	23.10	23.17	23.11			
20	16QAM	1	49	23.10	23.00	23.06	23.8	1	
20	16QAM	1	99	22.99	22.80	22.87			
20	16QAM	50	0	21.90	21.79	21.70			
20	16QAM	50	24	21.93	21.82	21.72	22.8	2	
20	16QAM	50	50	21.85	21.73	21.70			
20	16QAM	100	0	21.87	21.78	21.66			
20	16QAM	1	0	22.01	21.98	21.94	22.8	2	
20	16QAM	1	49	21.90	21.80	21.87			
20	16QAM	1	99	21.84	21.79	21.71			
20	16QAM	50	0	20.75	20.80	20.77			
20	16QAM	50	24	20.80	20.83	20.70	21.8	3	
20	16QAM	50	50	20.72	20.70	20.71			
20	16QAM	100	0	20.77	20.70	20.72			
20	256QAM	1	0	19.14	19.00	19.10	19.8	5	
20	256QAM	1	49	19.02	19.11	19.13			
20	256QAM	1	99	19.03	19.12	19.06			
20	256QAM	50	0	19.06	19.10	19.06			
20	256QAM	50	24	19.07	19.08	19.04	19.8	5	
20	256QAM	50	50	19.04	19.00	19.02			
20	256QAM	100	0	19.02	19.00	19.00			
Channel				130972	130972	130972			
Frequency (MHz)				17114	17114	17123			
15	QPSK	1	0	23.82	23.71	23.70			
15	QPSK	1	49	23.76	23.80	23.70	24.8	0	
15	QPSK	1	94	23.73	23.58	23.56			
15	QPSK	50	0	22.85	22.74	22.72			
15	QPSK	50	24	22.82	22.81	22.73	23.8	1	
15	QPSK	50	50	22.84	22.72	22.75			
15	QPSK	70	0	22.89	22.70	22.68			
15	QPSK	70	24	22.14	22.02	22.09	23.8	1	
15	QPSK	70	50	22.11	21.79	21.70			
15	16QAM	1	0	23.14	23.17	23.11			
15	16QAM	1	49	23.14	23.00	23.06	23.8	2	
15	16QAM	1	94	22.99	22.80	22.85			
15	16QAM	50	0	21.94	21.74	21.70			
15	16QAM	50	24	21.91	21.79	21.67	22.8	2	
15	16QAM	50	50	21.85	21.68	21.73			
15	16QAM	70	0	21.91	21.70	21.67			
15	16QAM	70	24	21.88	21.68	21.67	22.8	2	
15	16QAM	70	50	21.85	21.62	21.70			
15	16QAM	1	0	21.87	21.80	21.77			
15	16QAM	1	49	21.81	21.76	21.67	22.8	2	
15	16QAM	1	94	21.66	21.56	21.61			
15	16QAM	50	0	20.61	20.76	20.67			
15	16QAM	50	24	20.77	20.80	20.67	21.8	3	
15	16QAM	50	50	20.62	20.67	20.63			
15	16QAM	70	0	20.68	20.70	20.63			
15	16QAM	70	24	20.64	20.64	20.61	19.8	5	
15	16QAM	70	50	20.62	20.58	20.60			
15	256QAM	1	0	18.78	18.96	19.10	19.8	5	
15	256QAM	1	49	18.70	19.08	19.08			
15	256QAM	1	94	18.70	19.08	19.08			
15	256QAM	50	0	18.70	19.08	19.08			
15	256QAM	50	24	18.70	19.08	18.96	19.8	5	
15	256QAM	50	50	18.70	18.96	18.96			
15	256QAM	70	0	18.62	18.91	18.96			
15	256QAM	70	24	18.62	18.91	18.96	19.8	5	
15	256QAM	70	50	18.62	18.91	18.96			
Channel				17115	17115	17123			
Frequency (MHz)				17115	17145	17173			
5	QPSK	1	0	23.84	23.63	23.67			
5	QPSK	1	12	23.82	23.70	23.66	24.8	0	
5	QPSK	1	49	23.71	23.53	23.53			
5	QPSK	20	0	22.84	22.72	22.72			
5	QPSK	20	12	22.82	22.81	22.70	23.8	1	
5	QPSK	20	49	22.71	22.73	22.60			
5	QPSK	50	0	22.82	22.80	22.60			
5	16QAM	1	0	23.20	23.12	23.08			
5	16QAM	1	12	23.18	23.04	23.01	23.8	1	
5	16QAM	1	49	23.04	22.95	22.95			
5	16QAM	20	0	21.93	21.72	21.70			
5	16QAM	20	12	21.91	21.70	21.67	22.8	2	
5	16QAM	20	49	21.88	21.71	21.69			
5	16QAM	50	0	21.81	21.70	21.69			
5	16QAM	1	0	21.59	21.52	21.50	22.8	2	
5	16QAM	1	12	21.57	21.46	21.47			
5	16QAM	1	49	21.55	21.52	21.50			
5	16QAM	20	0	20.93	20.76	20.74	21.8	3	
5	16QAM	20	12	20.91	20.84	20.75			
5	16QAM	20	49	20.72	20.75	20.75			
5	16QAM	50	0	20.74	20.81	20.70			
5	16QAM	50	12	20.72	20.76	20.70	21.8	3	
5	16QAM	50	25	20.61	20.90	20.95			
5	16QAM	1	0	19.11	19.11	19.09	19.8	5	
5	256QAM	1	0	18.96	19.02	19.01	19.8	5	
5	256QAM	1	12	18.95	19.00	19.00			
5	256QAM	20	0	18.88	19.05	19.01			
5	256QAM	20	25	18.88	19.05	19.01			
5	256QAM	50	0	18.88	19.05	19.01			
Channel				17115	17122	17173			
Frequency (MHz)				17115	17122	17173			
3	QPSK	1	0	23.82	23.68	23.64			
3	QPSK	1	8	23.82	23.71	23.68	24.8	0	
3	QPSK	1	49	23.64	23.54	23.54			
3	QPSK	8	0	22.80	22.70	22.70	23.8	1	
3	QPSK	8	4	22.86	22.78	22.70			
3	QPSK	9	0	22.85	22.72	22.66			
3	QPSK	9	4	22.86	22.72	22.66	22.8	2	
3	16QAM	1	0	23.14	22.90	22.90			
3	16QAM	1	8	23.25	23.07	23.01	23.8	1	
3	16QAM	1	49	23.07	22.90	22.90			
3	16QAM	8	0	21.95	21.75	21.70			
3	16QAM	8	4	22.01	21.88	21.70	22.8	2	
3	16QAM	8	8	22.07	21.88	21.70			
3	16QAM	9	0	22.07	22.01	21.81	22.8	2	
3	16QAM	9	4	22.07	21.94	21.70			
3	16QAM	8	8	20.86	20.76	20.64	21.8	3	
3	16QAM	8	4	20.94	20.85	20.70			
3	16QAM	9	0	20.93	20.83	20.63	21.8	3	
3	256QAM	1	0	19.00	19.00	19.01			
3	256QAM	1	8	19.00	19.00	19.01	19.8	5	
3	256QAM	1	14	19.01	19.08	19.08			
3	256QAM	8	0	18.88	19.07	18.90			
3	256QAM	8	4	18.88	18.98	18.90	19.8	5	
3	256QAM	9	0	18.88	19.07	18.90			
3	256QAM	10	0	18.84	19.00	18.90			
Channel				191979	192022	192095			
Frequency (MHz)				191979	192022	192095			
1.4	QPSK	1	0	23.78	23.81	23.70			
1.4	QPSK	1	0	23.82	23.67	23.60	24.8	0	
1.4	QPSK	1	0	23.72	23.81	23.60			
1.4	QPSK	1	0	23.64	23.74	23.60			
1.4	QPSK	3	0	23.81	23.84	23.80			
1.4	QPSK	3	0	23.79	23.83	23.84			
1.4	QPSK	3	0	23.68	23.80	23.80	23.8	1	
1.4	16QAM	1	0	23.10	22.95	22.90			
1.4	16QAM	1	0	23.14	23.04	22.94			
1.4	16QAM	1	0	23.08	22.92	22.84	23.8	1	
1.4	16QAM	1	0	22.98	22.73	22.64			
1.4	16QAM	3	0	22.92	22.77	22.65			
1.4	16QAM	3	0	22.83	22.70	22.62	22.8	2	
1.4	16QAM	3	0	22.81	22.70	22.62			
1.4	16QAM	1	0	21.86	21.80	21.74			
1.4	16QAM	1	0	21.84	21.83	21.78	22.8	2	
1.4	16QAM	1	0	21.83	21.80	21.78			
1.4	16QAM	3	0	20.93	20.80	20.80	21.8	3	
1.4	256QAM	1	0	19.09	19.05	19.01			
1.4	256QAM	1	0	19.07	19.01	19.00	19.8	5	
1.4	256QAM	1	0	19.07	19.00	19.00			
1.4	256QAM	3	0	18.87	19.00	19.04			
1.4	256QAM	3	0	18.88	19.04	19.00	19.8	5	
1.4	256QAM	3	0	18.88	19.00	19.00			
1.4	256QAM	3	0	18.82	19.07	19.00	19.8	5	



Full Power

BT BR/EDR

BT BREK												
Mode	Channel	Frequency (MHz)	Average power (30m)									Tune-up Limit
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	12.40	12.20	12.10	11.00	10.70	10.60	11.00	10.70	10.60	14.10
	CH 39	2441	14.20	14.00	13.90	12.80	12.60	12.50	12.80	12.60	12.50	15.90
	CH 78	2480	13.20	12.90	12.80	11.80	11.50	11.40	11.80	11.50	11.40	14.80

BT LE

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	Tune-up Limit
LE	CH 00	2402	7.70	9.70
	CH 19	2440	9.60	11.60
	CH 39	2480	8.80	10.80

BT LE 5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	Tune-up Limit
LE	CH 00	2402	7.80	9.80
	CH 19	2440	9.80	11.80
	CH 39	2480	8.90	10.90

Ant+

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-up Limit
Ant+	CH 02	2402	-7.40	-5.40
	CH 41	2441	-5.70	-3.70
	CH 80	2480	-5.90	-3.90



Reduced Power for Head

BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)									Tune-up Limit
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	6.40	6.30	6.30	4.70	4.50	4.50	4.70	4.50	4.50	8.30
	CH 39	2441	7.70	7.60	7.60	6.10	6.00	5.90	6.10	6.00	6.00	9.60
	CH 78	2480	7.20	7.10	7.10	5.50	5.40	5.30	5.50	5.40	5.30	9.10



Full Power

Ant 2							
	Mode	RU Config.	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	Full	1	2412	14.80	16.50	100.00
		Full	6	2437	15.10	16.50	
		Full	11	2462	14.90	16.50	
	802.11g 6Mbps	Full	1	2412	14.50	15.50	98.98
		Full	6	2437	14.70	15.50	
		Full	11	2462	14.60	15.50	
	802.11n-HT20 MCS0	Full	1	2412	13.40	14.50	100.00
		Full	6	2437	13.70	14.50	
		Full	11	2462	13.60	14.50	
	802.11n-HT40 MCS0	Full	3	2422	12.40	13.50	100.00
		Full	6	2437	12.70	13.50	
		Full	9	2452	12.20	13.50	
	802.11ac-VHT20 MCS0	Full	1	2412	13.30	14.50	100.00
		Full	6	2437	13.60	14.50	
		Full	11	2462	13.50	14.50	
	802.11ac-VHT40 MCS0	Full	3	2422	12.20	13.50	100.00
		Full	6	2437	12.50	13.50	
		Full	9	2452	12.10	13.50	
	802.11ac-HE20 MCS0	Full	1	2412	13.30	14.50	100.00
		26/0	1	2412	4.40	5.50	
		52/37	1	2412	5.50	6.50	
		106/53	1	2412	8.80	9.50	
		Full	6	2437	13.70	14.50	
		26/4	6	2437	4.25	5.50	
		52/38	6	2437	5.35	6.50	
		106/53	6	2437	8.65	9.50	
		Full	11	2462	13.60	14.50	
		26/8	11	2462	3.30	4.50	
		52/40	11	2462	4.90	5.50	
		106/54	11	2462	7.70	8.50	
		Full	3	2422	13.50	14.50	
		26/0	3	2422	4.70	5.50	
		52/37	3	2422	5.50	6.50	
	802.11ac-HE40 MCS0	106/53	3	2422	6.30	7.50	100.00
		242/61	3	2422	8.00	8.50	
		Full	6	2437	13.60	14.50	
		26/8	6	2437	4.80	5.50	
		52/40	6	2437	5.60	6.50	
		106/54	6	2437	8.40	7.50	
		242/61	6	2437	8.10	8.50	
		Full	9	2452	13.20	14.50	
		26/18	9	2452	5.80	6.50	
		52/44	9	2452	6.00	7.50	
		106/56	9	2452	7.20	8.50	
		242/62	9	2452	7.00	9.50	

Full Power

Ant 1+2							
	Mode	RU Config.	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	Full	1	2412	17.96	19.50	100.00
		Full	6	2437	18.01	19.50	
		Full	11	2462	17.91	19.50	
	802.11g 6Mbps	Full	1	2412	17.22	18.50	98.98
		Full	6	2437	17.28	18.50	
		Full	11	2462	17.23	18.50	
	802.11n-HT20 MCS0	Full	1	2412	16.12	17.50	100.00
		Full	6	2437	16.28	17.50	
		Full	11	2462	16.23	17.50	
	802.11n-HT40 MCS0	Full	3	2422	14.98	16.50	100.00
		Full	6	2437	15.20	16.50	
		Full	9	2452	14.83	16.50	
	802.11ac-VHT20 MCS0	Full	1	2412	16.02	17.50	100.00
		Full	6	2437	16.18	17.50	
		Full	11	2462	16.13	17.50	
	802.11ac-VHT40 MCS0	Full	3	2422	14.83	16.50	100.00
		Full	6	2437	15.04	16.50	
		Full	9	2452	14.73	16.50	
	802.11ac-HE20 MCS0	Full	1	2412	16.02	17.50	100.00
		26/0	1	2412	7.20	8.50	
		52/37	1	2412	8.22	9.50	
		106/53	1	2412	11.57	12.50	
		Full	6	2437	16.20	17.50	
		26/4	6	2437	6.97	8.50	
		52/38	6	2437	8.07	9.50	
		106/53	6	2437	11.42	12.50	
		Full	11	2462	16.23	17.50	
		26/8	11	2462	6.02	7.50	
		52/40	11	2472	7.62	8.50	
		106/54	11	2472	10.66	11.50	
		Full	3	2422	16.00	17.50	
		26/0	3	2422	7.15	8.50	
		52/37	3	2422	8.08	9.50	
	802.11ac-HE40 MCS0	106/53	3	2422	8.93	10.50	100.00
		242/61	3	2422	10.72	11.50	
		Full	6	2437	16.10	17.50	
		26/8	6	2437	7.25	8.50	
		52/40	6	2437	8.18	9.50	
		106/54	6	2437	9.03	10.50	
		242/61	6	2437	10.62	11.50	
		Full	9	2452	15.92	17.50	
		26/18	9	2452	8.96	9.50	
		52/44	9	2452	9.71	10.50	
		106/56	9	2452	10.91	11.50	
		242/62	9	2452	11.44	12.50	

Ant 1+2							
	Mode	RU Config.	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	Full	36	5180	20.67	22.00	98.63
		Full	40	5200	20.52	22.00	
		Full	44	5220	20.61	22.00	
		Full	48	5240	20.60	22.00	
	802.11n-HT20 MCS0	Full	36	5180	19.62	21.00	100.00
		Full	40	5200	19.50	21.00	
		Full	44	5220	19.70	21.00	
		Full	48	5240	19.59	21.00	
	802.11n-HT40 MCS0	Full	38	5190	19.57	21.00	100.00
		Full	46	5230	19.59	21.00	
	802.11ac-VHT20 MCS0	Full	36	5180	19.59	21.00	100.00
		Full	40	5200	19.47	21.00	
		Full	44	5220	19.66	21.00	
		Full	48	5240	19.55	21.00	
	802.11ac-VHT40 MCS0	Full	38	5190	19.47	21.00	100.00
		Full	46	5230	19.50	21.00	
	802.11ac-VHT80 MCS0	Full	42	5210	20.37	22.00	100.00
		Full	36	5180	19.61	21.00	
	802.11ac-HE20 MCS0	26/0	36	5180	10.36	12.00	100.00
		52/37	36	5180	14.88	15.00	
		106/53	36	5180	17.08	18.00	
		Full	40	5200	19.53	21.00	
		26/2	40	5200	10.21	12.00	
		52/38	40	5200	14.73	15.00	
		106/53	40	5200	16.93	17.00	
		Full	44	5220	19.65	21.00	
		26/6	44	5220	10.70	12.50	
		52/39	44	5220	14.81	15.00	
		106/54	44	5220	16.88	17.00	
		Full	48	5240	19.56	21.00	
		26/8	48	5240	10.85	12.50	
		52/40	48	5240	14.96	15.00	
		106/54	48	5240	17.03	18.00	
	802.11ac-HE40 MCS0	Full	38	5190	19.62	21.00	100.00
		26/0	38	5190	9.62	11.00	
		52/37	38	5190	12.26	13.00	
		106/53	38	5190	14.28	15.00	
		242/61	38	5190	17.26	18.00	
		Full	46	5230	19.65	21.00	
		26/18	46	5230	9.53	11.00	
		52/44	46	5230	12.41	13.00	
		106/56	46	5230	14.43	15.00	
		242/62	46	5230	18.22	19.00	
	802.11ac-HE80 MCS0	Full	42	5210	20.51	22.00	100.00
		26/0	42	5210	6.85	8.00	
		52/37	42	5210	9.63	11.00	
		106/53	42	5210	13.30	14.00	
		242/61	42	5210	16.53	17.00	
		484/65	42	5210	18.39	19.00	
		484/66	42	5210	18.35	19.00	



Ant 1+2							
5.3GHz WLAN	Mode	RU Config.	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	Full	52	5260	20.57	22.00	98.63
		Full	56	5280	20.39	22.00	
		Full	60	5300	20.34	22.00	
		Full	64	5320	20.37	22.00	
	802.11n-HT20 MCS0	Full	52	5260	19.54	21.00	100.00
		Full	56	5280	20.30	22.00	
		Full	60	5300	20.19	22.00	
		Full	64	5320	20.24	22.00	
	802.11n-HT40 MCS0	Full	54	5270	19.41	21.00	100.00
		Full	62	5310	20.26	22.00	
	802.11ac-VHT20 MCS0	Full	52	5260	19.50	21.00	100.00
		Full	56	5280	20.27	22.00	
		Full	60	5300	20.15	22.00	
		Full	64	5320	20.23	22.00	
	802.11ac-VHT40 MCS0	Full	54	5270	19.35	21.00	100.00
		Full	62	5310	20.15	22.00	
	802.11ac-VHT80 MCS0	Full	58	5290	20.26	22.00	100.00
	802.11ac-VHT160 MCS0	Full	50	5250	20.82	21.00	100
	802.11ac-HE20 MCS0	Full	52	5260	19.51	21.00	100.00
		26/0	52	5260	11.16	13.00	
		52/37	52	5260	14.90	15.00	
		106/53	52	5260	17.19	18.00	
		Full	56	5280	20.32	22.00	
		26/2	56	5280	11.03	13.00	
		52/38	56	5280	14.77	15.00	
		106/53	56	5280	17.06	18.00	
		Full	60	5300	20.14	22.00	
		26/8	60	5300	10.75	12.50	
		52/39	60	5300	14.77	15.00	
		106/54	60	5300	18.01	19.00	
		Full	64	5320	20.28	22.00	
		26/8	64	5320	10.88	12.50	
		52/40	64	5320	14.90	15.00	
		106/54	64	5320	18.14	19.00	
	802.11ac-HE40 MCS0	Full	54	5270	20.38	22.00	100.00
		26/0	54	5270	10.28	12.00	
		52/37	54	5270	13.43	14.00	
		106/53	54	5270	15.65	16.00	
		242/61	54	5270	18.39	19.00	
		Full	62	5310	20.24	22.00	
		26/18	62	5310	10.06	11.00	
		52/44	62	5310	11.78	13.00	
	802.11ac-HE80 MCS0	Full	58	5290	20.40	22.00	100.00
		26/36	58	5290	7.26	8.00	
		52/52	58	5290	10.07	11.00	
		106/60	58	5290	13.93	14.00	
		242/64	58	5290	17.16	18.00	
		484/65	58	5290	18.49	19.00	
	802.11ac-HE160 MCS0	Full	50	5250	21.00	21.00	100.00
		26/0	50	5250	4.12	5.00	
		52/37	50	5250	5.58	7.00	
		106/53	50	5250	8.53	10.00	
		242/61	50	5250	11.73	13.00	
		484/65	50	5250	15.64	16.00	
		996/67	50	5250	17.34	18.00	



	Mode	Ant 1+2					Duty Cycle %		
		RU Config	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit			
5.5GHz WLAN	802.11a 6Mbps	Full	100	5500	20.08	22.00	98.63		
		Full	116	5580	20.06	22.00			
		Full	124	5620	20.05	22.00			
		Full	132	5660	20.60	22.00			
		Full	140	5700	20.00	22.00			
		Full	144	5720	20.01	22.00			
	802.11n-HT20 MCS0	Full	100	5500	20.14	22.00	100.00		
		Full	116	5580	20.11	22.00			
		Full	124	5620	20.08	22.00			
		Full	132	5660	20.07	22.00			
		Full	140	5700	20.06	22.00			
		Full	144	5720	20.04	22.00			
	802.11n-HT40 MCS0	Full	102	5510	20.04	22.00	100.00		
		Full	110	5550	20.01	22.00			
		Full	126	5630	20.13	22.00			
		Full	134	5670	20.04	22.00			
		Full	142	5710	20.06	22.00			
		Full	100	5500	20.10	22.00			
	802.11ac-VHT20 MCS0	Full	116	5580	20.09	22.00	100.00		
		Full	124	5620	20.06	22.00			
		Full	132	5660	20.01	22.00			
		Full	140	5700	20.03	22.00			
		Full	144	5720	20.01	22.00			
		Full	102	5510	20.02	22.00			
	802.11ac-VHT40 MCS0	Full	110	5550	20.00	22.00	100.00		
		Full	126	5630	20.09	22.00			
		Full	134	5670	20.02	22.00			
		Full	142	5710	20.04	22.00			
		802.11ac-VHT80 MCS0	Full	106	5530	20.01		22.00	100.00
			Full	122	5610	20.02		22.00	
	Full		138	5690	20.08	22.00			
	802.11ac-VHT160 MCS0	Full	114	5570	20.56	21.00	100.00		
		Full	100	5500	20.01	22.00	100.00		
		26/0	100	5500	12.69	13.00			
		52/37	100	5500	14.79	15.00			
		106/53	100	5500	18.06	19.00			
		Full	116	5580	20.19	22.00			
		26/2	116	5580	12.55	13.00			
		52/37	116	5580	14.65	15.00			
		106/53	116	5580	17.92	19.00			
		Full	124	5620	20.00	22.00			
		26/4	124	5620	12.83	13.00			
		52/38	124	5620	14.93	15.00			
		106/53	124	5620	18.20	19.00			
		Full	132	5660	20.10	22.00			
		26/6	132	5660	12.49	13.00			
		52/39	132	5660	14.59	15.00			
		106/54	132	5660	17.86	18.00			
		Full	140	5700	20.11	22.00			
		26/7	140	5700	12.59	13.00			
		52/39	140	5700	14.61	15.00			
		106/54	140	5700	17.92	18.00			
		Full	144	5720	20.09	22.00			
		26/8	144	5720	12.66	13.00			
		52/40	144	5720	14.83	15.00			
		106/54	144	5720	17.90	18.00			
		Full	102	5510	20.07	22.00			
		26/0	102	5510	9.64	11.00			
		52/37	102	5510	12.68	14.00			
		106/53	102	5510	15.12	16.00			
		242/61	102	5510	18.21	19.00			
		Full	110	5550	20.01	22.00			
		26/4	110	5550	9.50	11.00			
		52/39	110	5550	12.54	14.00			
		106/53	110	5550	14.98	16.00			
		242/61	110	5550	18.07	19.00			
		Full	126	5630	20.01	22.00			
		26/8	126	5630	9.39	11.00			
		52/42	126	5630	12.15	14.00			
		106/54	126	5630	14.59	16.00			
		242/61	126	5630	18.13	19.00			
		Full	134	5670	20.16	22.00			
		26/13	134	5670	9.29	11.00			
	52/44	134	5670	12.29	14.00				
	106/55	134	5670	14.73	16.00				
	242/62	134	5670	18.51	19.00				
	Full	142	5710	20.15	22.00				
	26/18	142	5710	9.38	11.00				
	52/44	142	5710	12.42	14.00				
	106/56	142	5710	14.41	16.00				
	242/62	142	5710	17.88	18.00				
	802.11ac-HE20 MCS0	Full	106	5530	20.12	22.00	100.00		
		26/0	106	5530	7.87	9.00			
		52/37	106	5530	9.43	11.00			
		106/53	106	5530	12.40	14.00			
		242/61	106	5530	15.80	17.00			
		484/65	106	5530	18.89	19.00			
		Full	122	5610	20.15	22.00			
		26/18	122	5610	7.27	9.00			
		52/44	122	5610	9.07	11.00			
		106/56	122	5610	11.27	13.00			
		242/62	122	5610	14.93	16.00			
		484/65	122	5610	18.76	19.00			
		Full	138	5690	20.09	22.00			
		26/36	138	5690	6.39	8.00			
		52/52	138	5690	9.32	11.00			
		106/60	138	5690	11.82	13.00			
		242/64	138	5690	14.64	16.00			
		484/66	138	5690	18.17	19.00			
	802.11ac-HE160 MCS0	Full	114	5570	21.49	22.00	100.00		
		26/0	114	5570	3.94	5.00			
		52/37	114	5570	5.71	7.00			
		106/53	114	5570	7.53	9.00			
		242/61	114	5570	10.39	12.00			
		484/65	114	5570	13.50	15.00			
		996/67	114	5570	17.15	18.00			



Ant 1+2							
5.8GHz WLAN	Mode	RU Config.	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	Full	149	5745	20.09	22.00	98.63
		Full	157	5785	20.08	22.00	
		Full	165	5825	20.14	22.00	
	802.11n-HT20 MCS0	Full	149	5745	20.17	22.00	100.00
		Full	157	5785	20.14	22.00	
		Full	165	5825	20.01	22.00	
	802.11n-HT40 MCS0	Full	151	5755	20.17	22.00	100.00
		Full	159	5795	20.09	22.00	
	802.11ac-VHT20 MCS0	Full	149	5745	20.07	22.00	100.00
		Full	157	5785	20.08	22.00	
		Full	165	5825	20.00	22.00	
	802.11ac-VHT40 MCS0	Full	151	5755	20.08	22.00	100.00
		Full	159	5795	20.05	22.00	
	802.11ac-VHT80 MCS0	Full	155	5775	20.18	22.00	100.00
	802.11ac-HE20 MCS0	Full	149	5745	20.01	22.00	100.00
		26/0	149	5745	11.71	13.00	
		52/37	149	5745	14.82	16.00	
		106/53	149	5745	17.60	19.00	
		Full	157	5785	20.08	22.00	
		26/4	157	5785	12.18	13.00	
		52/38	157	5785	15.09	16.00	
		106/53	157	5785	18.08	19.00	
		Full	165	5825	20.04	22.00	
		26/8	165	5825	12.40	13.00	
		52/40	165	5825	15.31	16.00	
		106/54	165	5825	18.30	19.00	
	802.11ac-HE40 MCS0	Full	151	5755	20.09	22.00	100.00
		26/0	151	5755	8.71	10.00	
		52/37	151	5755	11.07	13.00	
		106/53	151	5755	14.33	16.00	
		242/61	151	5755	17.65	19.00	
		Full	159	5795	20.07	22.00	
		26/18	159	5795	8.94	10.00	
		52/44	159	5795	11.40	13.00	
		106/56	159	5795	14.47	16.00	
		242/62	159	5795	18.17	19.00	
	802.11ac-HE80 MCS0	Full	155	5775	20.21	22.00	100.00
		26/0	155	5775	5.36	7.00	
		52/37	155	5775	8.26	10.00	
		106/53	155	5775	11.21	13.00	
		242/61	155	5775	14.33	16.00	
		484/65	155	5775	17.81	18.00	
			155	5775	18.01	19.00	



Reduced Power level 2

Ant. 2						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	12.80	14.50	100.00
		6	2437	13.10	14.50	
		11	2462	12.90	14.50	
	802.11g 6Mbps	1	2412	12.50	13.50	98.98
		6	2437	12.70	13.50	
		11	2462	12.60	13.50	
	802.11n-HT20 MCS0	1	2412	11.40	12.50	100.00
		6	2437	11.70	12.50	
		11	2462	11.60	12.50	
	802.11n-HT40 MCS0	3	2422	10.40	11.50	100.00
		6	2437	10.70	11.50	
		9	2452	10.20	11.50	
	802.11ac-VHT20 MCS0	1	2412	11.30	12.50	100.00
		6	2437	11.60	12.50	
		11	2462	11.50	12.50	
	802.11ac-VHT40 MCS0	3	2422	10.20	11.50	100.00
		6	2437	10.50	11.50	
		9	2452	10.10	11.50	
	802.11ax-HE20 MCS0	1	2412	11.30	12.50	100.00
		6	2437	11.70	12.50	
		11	2462	11.60	12.50	
	802.11ax-HE40 MCS0	3	2422	11.50	12.50	100.00
		6	2437	11.60	12.50	
		9	2452	11.20	12.50	

Reduced Power for Head
Reduced Power level 1

Ant. 1+2						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	15.96	17.50	100.00
		6	2437	16.01	17.50	
		11	2462	15.91	17.50	
	802.11g 6Mbps	1	2412	15.22	16.50	98.98
		6	2437	15.28	16.50	
		11	2462	15.23	16.50	
	802.11n-HT20 MCS0	1	2412	14.12	15.50	100.00
		6	2437	14.28	15.50	
		11	2462	14.23	15.50	
	802.11n-HT40 MCS0	3	2422	12.98	14.50	100.00
		6	2437	13.20	14.50	
		9	2452	12.83	14.50	
	802.11ac-VHT20 MCS0	1	2412	14.02	15.50	100.00
		6	2437	14.18	15.50	
		11	2462	14.13	15.50	
	802.11ac-VHT40 MCS0	3	2422	12.83	14.50	100.00
		6	2437	13.04	14.50	
		9	2452	12.73	14.50	
	802.11ax-HE20 MCS0	1	2412	14.02	15.50	100.00
		6	2437	14.20	15.50	
		11	2462	14.23	15.50	
	802.11ax-HE40 MCS0	3	2422	14.00	15.50	100.00
		6	2437	14.10	15.50	
		9	2452	13.92	15.50	



Reduced Power level 4

Art. 2						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	10.80	12.50	100.00
		6	2437	11.10	12.50	
		11	2462	10.90	12.50	
	802.11g 6Mbps	1	2412	10.50	11.50	98.98
		6	2437	10.70	11.50	
		11	2462	10.60	11.50	
	802.11n-HT20 MCS0	1	2412	9.40	10.50	100.00
		6	2437	9.70	10.50	
		11	2462	9.60	10.50	
	802.11n-HT40 MCS0	3	2422	8.40	9.50	100.00
		6	2437	8.70	9.50	
		9	2452	8.20	9.50	
	802.11ac-VHT20 MCS0	1	2412	9.30	10.50	100.00
		6	2437	9.60	10.50	
		11	2462	9.50	10.50	
	802.11ac-VHT40 MCS0	3	2422	8.20	9.50	100.00
		6	2437	8.50	9.50	
		9	2452	8.10	9.50	
	802.11ax-HE20 MCS0	1	2412	9.30	10.50	100.00
		6	2437	9.70	10.50	
		11	2462	9.60	10.50	
	802.11ax-HE40 MCS0	3	2422	9.50	10.50	100.00
		6	2437	9.60	10.50	
		9	2452	9.20	10.50	

Reduced Power level 3

Art. 1+2						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	13.96	15.50	100.00
		6	2437	14.01	15.50	
		11	2462	13.91	15.50	
	802.11g 6Mbps	1	2412	13.22	14.50	98.98
		6	2437	13.28	14.50	
		11	2462	13.23	14.50	
	802.11n-HT20 MCS0	1	2412	12.12	13.50	100.00
		6	2437	12.28	13.50	
		11	2462	12.23	13.50	
	802.11n-HT40 MCS0	3	2422	10.98	12.50	100.00
		6	2437	11.20	12.50	
		9	2452	10.83	12.50	
	802.11ac-VHT20 MCS0	1	2412	12.02	13.50	100.00
		6	2437	12.18	13.50	
		11	2462	12.13	13.50	
	802.11ac-VHT40 MCS0	3	2422	10.83	12.50	100.00
		6	2437	11.04	12.50	
		9	2452	10.73	12.50	
	802.11ax-HE20 MCS0	1	2412	12.02	13.50	100.00
		6	2437	12.20	13.50	
		11	2462	12.23	13.50	
	802.11ax-HE40 MCS0	3	2422	12.00	13.50	100.00
		6	2437	12.10	13.50	
		9	2452	11.92	13.50	



Reduced Power level 6

Ant. 2						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	9.80	11.50	100.00
		6	2437	10.10	11.50	
		11	2462	9.90	11.50	
	802.11g 6Mbps	1	2412	9.50	10.50	98.98
		6	2437	9.70	10.50	
		11	2462	9.60	10.50	
	802.11n-HT20 MCS0	1	2412	8.40	9.50	100.00
		6	2437	8.70	9.50	
		11	2462	8.60	9.50	
	802.11n-HT40 MCS0	3	2422	7.40	8.50	100.00
		6	2437	7.70	8.50	
		9	2452	7.20	8.50	
	802.11ac-VHT20 MCS0	1	2412	8.30	9.50	100.00
		6	2437	8.60	9.50	
		11	2462	8.50	9.50	
	802.11ac-VHT40 MCS0	3	2422	7.20	8.50	100.00
		6	2437	7.50	8.50	
		9	2452	7.10	8.50	
	802.11ax-HE20 MCS0	1	2412	8.30	9.50	100.00
		6	2437	8.70	9.50	
		11	2462	8.60	9.50	
	802.11ax-HE40 MCS0	3	2422	8.50	9.50	100.00
		6	2437	8.60	9.50	
		9	2452	8.20	9.50	

Reduced Power level 5

Ant. 1+2						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	13.96	15.50	100.00
		6	2437	14.01	15.50	
		11	2462	13.91	15.50	
	802.11g 6Mbps	1	2412	13.22	14.50	98.98
		6	2437	13.28	14.50	
		11	2462	13.23	14.50	
	802.11n-HT20 MCS0	1	2412	12.12	13.50	100.00
		6	2437	12.28	13.50	
		11	2462	12.23	13.50	
	802.11n-HT40 MCS0	3	2422	10.98	12.50	100.00
		6	2437	11.20	12.50	
		9	2452	10.83	12.50	
	802.11ac-VHT20 MCS0	1	2412	12.02	13.50	100.00
		6	2437	12.18	13.50	
		11	2462	12.13	13.50	
	802.11ac-VHT40 MCS0	3	2422	10.83	12.50	100.00
		6	2437	11.04	12.50	
		9	2452	10.73	12.50	
	802.11ax-HE20 MCS0	1	2412	12.02	13.50	100.00
		6	2437	12.20	13.50	
		11	2462	12.23	13.50	
	802.11ax-HE40 MCS0	3	2422	12.00	13.50	100.00
		6	2437	12.10	13.50	
		9	2452	11.92	13.50	



Reduced Power level 8

Art. 2						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	8.80	10.50	100.00
		6	2437	9.10	10.50	
		11	2462	8.90	10.50	
	802.11g 6Mbps	1	2412	8.50	9.50	98.98
		6	2437	8.70	9.50	
		11	2462	8.60	9.50	
	802.11n-HT20 MCS0	1	2412	7.40	8.50	100.00
		6	2437	7.70	8.50	
		11	2462	7.60	8.50	
	802.11n-HT40 MCS0	3	2422	6.40	7.50	100.00
		6	2437	6.70	7.50	
		9	2452	6.20	7.50	
	802.11ac-VHT20 MCS0	1	2412	7.30	8.50	100.00
		6	2437	7.60	8.50	
		11	2462	7.50	8.50	
	802.11ac-VHT40 MCS0	3	2422	6.20	7.50	100.00
		6	2437	6.50	7.50	
		9	2452	6.10	7.50	
	802.11ax-HE20 MCS0	1	2412	7.30	8.50	100.00
		6	2437	7.70	8.50	
		11	2462	7.60	8.50	
	802.11ax-HE40 MCS0	3	2422	7.50	8.50	100.00
		6	2437	7.60	8.50	
		9	2452	7.20	8.50	

Reduced Power level 7

Art. 1+2						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	11.96	13.50	100.00
		6	2437	12.01	13.50	
		11	2462	11.91	13.50	
	802.11g 6Mbps	1	2412	11.22	12.50	98.98
		6	2437	11.28	12.50	
		11	2462	11.23	12.50	
	802.11n-HT20 MCS0	1	2412	10.12	11.50	100.00
		6	2437	10.28	11.50	
		11	2462	10.23	11.50	
	802.11n-HT40 MCS0	3	2422	8.98	10.50	100.00
		6	2437	9.20	10.50	
		9	2452	8.83	10.50	
	802.11ac-VHT20 MCS0	1	2412	10.02	11.50	100.00
		6	2437	10.18	11.50	
		11	2462	10.13	11.50	
	802.11ac-VHT40 MCS0	3	2422	8.83	10.50	100.00
		6	2437	9.04	10.50	
		9	2452	8.73	10.50	
	802.11ax-HE20 MCS0	1	2412	10.02	11.50	100.00
		6	2437	10.20	11.50	
		11	2462	10.23	11.50	
	802.11ax-HE40 MCS0	3	2422	10.00	11.50	100.00
		6	2437	10.10	11.50	
		9	2452	9.92	11.50	

Reduced Power level 1						
Art 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	19.67	21.00	98.63	
	40	5200	19.52	21.00		
	44	5220	19.61	21.00		
	48	5240	19.60	21.00		
802.11n-HT20 MCS0	36	5180	18.62	20.00	100.00	
	40	5200	18.50	20.00		
	44	5220	18.70	20.00		
	48	5240	18.59	20.00		
802.11n-HT40 MCS0	36	5180	18.57	20.00	100.00	
	40	5200	18.59	20.00		
	44	5220	18.59	20.00		
	36	5180	18.59	20.00		
802.11ac-VHT20 MCS0	40	5200	18.47	20.00	100.00	
	44	5220	18.66	20.00		
	48	5240	18.55	20.00		
	38	5190	18.47	20.00		
802.11ac-VHT40 MCS0	46	5230	18.50	20.00	100.00	
	46	5230	18.50	20.00		
	42	5210	19.37	21.00		
	36	5180	18.61	20.00		
802.11ax-HE20 MCS0	40	5200	18.53	20.00	100.00	
	44	5220	18.65	20.00		
	48	5240	18.56	20.00		
	38	5190	18.62	20.00		
802.11ax-HE40 MCS0	46	5230	18.68	20.00	100.00	
	46	5230	18.68	20.00		
	42	5210	19.51	21.00		
	38	5190	18.68	20.00		

Reduced Power level 2						
Art 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	19.67	21.00	98.63	
	40	5200	19.52	21.00		
	44	5220	19.61	21.00		
	48	5240	19.60	21.00		
802.11n-HT20 MCS0	36	5180	18.62	20.00	100.00	
	40	5200	18.50	20.00		
	44	5220	18.70	20.00		
	48	5240	18.59	20.00		
802.11n-HT40 MCS0	36	5180	18.57	20.00	100.00	
	40	5200	18.59	20.00		
	44	5220	18.59	20.00		
	36	5180	18.59	20.00		
802.11ac-VHT20 MCS0	40	5200	18.47	20.00	100.00	
	44	5220	18.66	20.00		
	48	5240	18.55	20.00		
	38	5190	18.47	20.00		
802.11ac-VHT40 MCS0	46	5230	18.50	20.00	100.00	
	46	5230	18.50	20.00		
	42	5210	19.37	21.00		
	36	5180	18.61	20.00		
802.11ax-HE20 MCS0	40	5200	18.53	20.00	100.00	
	44	5220	18.65	20.00		
	48	5240	18.56	20.00		
	38	5190	18.62	20.00		
802.11ax-HE40 MCS0	46	5230	18.68	20.00	100.00	
	46	5230	18.68	20.00		
	42	5210	19.51	21.00		
	38	5190	18.68	20.00		

Reduced Power level 3						
Art 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	17.67	19.00	98.63	
	40	5200	17.52	19.00		
	44	5220	17.61	19.00		
	48	5240	17.60	19.00		
802.11n-HT20 MCS0	36	5180	16.62	18.00	100.00	
	40	5200	16.50	18.00		
	44	5220	16.70	18.00		
	48	5240	16.59	18.00		
802.11n-HT40 MCS0	36	5180	16.57	18.00	100.00	
	40	5200	16.59	18.00		
	44	5220	16.59	18.00		
	36	5180	16.59	18.00		
802.11ac-VHT20 MCS0	40	5200	16.47	18.00	100.00	
	44	5220	16.66	18.00		
	48	5240	16.55	18.00		
	38	5190	16.47	18.00		
802.11ac-VHT40 MCS0	46	5230	16.50	18.00	100.00	
	46	5230	16.50	18.00		
	42	5210	17.37	19.00		
	36	5180	16.61	18.00		
802.11ax-HE20 MCS0	40	5200	16.53	18.00	100.00	
	44	5220	16.65	18.00		
	48	5240	16.56	18.00		
	38	5190	16.62	18.00		
802.11ax-HE40 MCS0	46	5230	16.68	18.00	100.00	
	46	5230	16.68	18.00		
	42	5210	17.51	19.00		
	38	5190	16.68	18.00		

Reduced Power level 1						
Art 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5260	19.57	21.00	98.63	
	56	5280	19.39	21.00		
	60	5300	19.34	21.00		
	64	5320	19.37	21.00		
802.11n-HT20 MCS0	52	5260	18.54	20.00	100.00	
	56	5280	19.30	21.00		
	60	5300	19.19	21.00		
	64	5320	19.24	21.00		
802.11n-HT40 MCS0	54	5270	18.41	20.00	100.00	
	62	5310	19.26	21.00		
	52	5260	18.50	20.00		
	56	5280	19.27	21.00		
802.11ac-VHT20 MCS0	60	5300	19.15	21.00	100.00	
	64	5320	19.23	21.00		
	54	5270	18.35	20.00		
	62	5310	19.15	21.00		
802.11ac-VHT40 MCS0	58	5290	19.26	21.00	100.00	
	58	5290	19.26	21.00		
	50	5250	19.82	20.00		
	52	5260	18.51	20.00		
802.11ac-VHT80 MCS0	56	5280	19.32	21.00	100.00	
	60	5300	19.14	21.00		
	64	5320	19.28	21.00		
	54	5270	19.38	21.00		
802.11ax-HE20 MCS0	62	5310	19.24	21.00	100.00	
	58	5290	19.40	21.00		
	50	5250	20.00	20.00		
	52	5260	18.51	20.00		
802.11ax-HE40 MCS0	56	5280	19.32	21.00	100.00	
	60	5300	19.14	21.00		
	64	5320	19.28	21.00		
	54	5270	19.38	21.00		
802.11ax-HE80 MCS0	62	5310	19.24	21.00	100.00	
	58	5290	19.40	21.00		
	50	5250	20.00	20.00		
	52	5260	18.51	20.00		
802.11ax-HE160 MCS0	56	5280	19.32	21.00	100.00	
	60	5300	19.14	21.00		
	64	5320	19.28	21.00		
	54	5270	19.38	21.00		

Reduced Power level 2						
Art 1+2						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	19.57	21.00	98.63
		56	5280	19.39	21.00	
		60	5300	19.34	21.00	
		64	5320	19.37	21.00	
	802.11n-HT20 MCS0	52	5260	18.54	20.00	100.00
		56	5280	19.30	21.00	
		60	5300	19.19	21.00	
		64	5320	19.24	21.00	
	802.11n-HT40 MCS0	54	5270	18.41	20.00	100.00
		62	5310	19.26	21.00	
	802.11ac-VHT20 MCS0	52	5260	18.50	20.00	100.00
		56	5280	19.27	21.00	
		60	5300	19.15	21.00	
		64	5320	19.23	21.00	
	802.11ac-VHT40 MCS0	54	5270	18.35	20.00	100.00
		62	5310	19.15	21.00	
	802.11ac-VHT80 MCS0	58	5290	19.26	21.00	100.00
		58	5290	19.26	21.00	
	802.11ac-VHT160 MCS0	50	5250	19.82	20.00	100.00
		52	5260	18.51	20.00	
56		5280	19.32	21.00		
60		5300	19.14	21.00		
802.11ax-HE20 MCS0	64	5320	19.28	21.00	100.00	
	54	5270	19.38	21.00		
802.11ax-HE40 MCS0	62	5310	19.24	21.00	100.00	
	58	5290	19.40	21.00		
802.11ax-HE80 MCS0	52	5250	20.00	20.00	100.00	
	50	5250	20.00	20.00		



Reduced Power level 4						
Ant 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	14.67	15.00	98.63	
	40	5200	14.52	15.00		
	44	5220	14.61	15.00		
	48	5240	14.80	15.00		
802.11a-HT20 MCS0	36	5180	13.62	15.00	100.00	
	40	5200	13.50	15.00		
	44	5220	13.70	15.00		
	48	5240	13.59	15.00		
802.11a-HT40 MCS0	36	5180	13.37	15.00	100.00	
	40	5200	13.59	15.00		
	44	5220	13.59	15.00		
	48	5240	13.59	15.00		
802.11ac-VHT20 MCS0	40	5200	13.47	15.00	100.00	
	44	5220	13.66	15.00		
	48	5240	13.55	15.00		
	48	5240	13.55	15.00		
802.11ac-VHT40 MCS0	38	5190	13.47	15.00	100.00	
	46	5230	13.50	15.00		
	46	5230	13.50	15.00		
	46	5230	13.50	15.00		
802.11ac-VHT80 MCS0	42	5210	14.37	15.00	100.00	
	36	5180	13.61	15.00		
	40	5200	13.53	15.00		
	44	5220	13.65	15.00		
802.11ax-HE20 MCS0	48	5240	13.56	15.00	100.00	
	38	5190	13.52	15.00		
	46	5230	13.65	15.00		
	46	5230	13.65	15.00		
802.11ax-HE40 MCS0	38	5190	13.52	15.00	100.00	
	46	5230	13.65	15.00		
	46	5230	13.65	15.00		
	46	5230	13.65	15.00		
802.11ax-HE80 MCS0	42	5210	14.51	15.00	100.00	
	36	5180	13.61	15.00		
	40	5200	13.53	15.00		
	44	5220	13.65	15.00		

Reduced Power level 5						
Ant 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	17.67	19.00	98.63	
	40	5200	17.52	19.00		
	44	5220	17.61	19.00		
	48	5240	17.80	19.00		
802.11a-HT20 MCS0	36	5180	16.62	18.00	100.00	
	40	5200	16.50	18.00		
	44	5220	16.70	18.00		
	48	5240	16.59	18.00		
802.11a-HT40 MCS0	36	5180	16.37	18.00	100.00	
	40	5200	16.59	18.00		
	44	5220	16.59	18.00		
	48	5240	16.59	18.00		
802.11ac-VHT20 MCS0	40	5200	16.47	18.00	100.00	
	44	5220	16.66	18.00		
	48	5240	16.55	18.00		
	48	5240	16.55	18.00		
802.11ac-VHT40 MCS0	38	5190	16.47	18.00	100.00	
	46	5230	16.50	18.00		
	46	5230	16.50	18.00		
	46	5230	16.50	18.00		
802.11ac-VHT80 MCS0	42	5210	17.37	19.00	100.00	
	36	5180	16.61	18.00		
	40	5200	16.53	18.00		
	44	5220	16.65	18.00		
802.11ax-HE20 MCS0	48	5240	16.56	18.00	100.00	
	38	5190	16.52	18.00		
	46	5230	16.65	18.00		
	46	5230	16.65	18.00		
802.11ax-HE40 MCS0	38	5190	16.52	18.00	100.00	
	46	5230	16.65	18.00		
	46	5230	16.65	18.00		
	46	5230	16.65	18.00		
802.11ax-HE80 MCS0	42	5210	17.51	19.00	100.00	
	36	5180	16.61	18.00		
	40	5200	16.53	18.00		
	44	5220	16.65	18.00		

Reduced Power level 6						
Ant 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	17.67	19.00	98.63	
	40	5200	17.52	19.00		
	44	5220	17.61	19.00		
	48	5240	17.60	19.00		
802.11a-HT20 MCS0	36	5180	16.62	18.00	100.00	
	40	5200	16.50	18.00		
	44	5220	16.70	18.00		
	48	5240	16.59	18.00		
802.11a-HT40 MCS0	36	5180	16.37	18.00	100.00	
	40	5200	16.59	18.00		
	44	5220	16.59	18.00		
	48	5240	16.59	18.00		
802.11ac-VHT20 MCS0	40	5200	16.47	18.00	100.00	
	44	5220	16.66	18.00		
	48	5240	16.55	18.00		
	48	5240	16.55	18.00		
802.11ac-VHT40 MCS0	38	5190	16.47	18.00	100.00	
	46	5230	16.50	18.00		
	46	5230	16.50	18.00		
	46	5230	16.50	18.00		
802.11ac-VHT80 MCS0	42	5210	17.37	19.00	100.00	
	36	5180	16.61	18.00		
	40	5200	16.53	18.00		
	44	5220	16.65	18.00		
802.11ax-HE20 MCS0	48	5240	16.56	18.00	100.00	
	38	5190	16.62	18.00		
	46	5230	16.68	18.00		
	46	5230	16.68	18.00		
802.11ax-HE40 MCS0	38	5190	16.62	18.00	100.00	
	46	5230	16.68	18.00		
	46	5230	16.68	18.00		
	46	5230	16.68	18.00		
802.11ax-HE80 MCS0	42	5210	17.51	19.00	100.00	
	36	5180	16.61	18.00		
	40	5200	16.53	18.00		
	44	5220	16.65	18.00		

Reduced Power level 4						
Ant 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5260	14.57	15.00	98.63	
	56	5280	14.39	15.00		
	60	5300	14.34	15.00		
	64	5320	14.37	15.00		
802.11a-HT20 MCS0	52	5260	13.54	15.00	100.00	
	56	5280	14.30	15.00		
	60	5300	14.19	15.00		
	64	5320	14.24	15.00		
802.11a-HT40 MCS0	54	5270	13.41	15.00	100.00	
	62	5310	14.26	15.00		
	62	5310	14.26	15.00		
	62	5310	14.26	15.00		
802.11ac-VHT20 MCS0	56	5280	14.27	15.00	100.00	
	60	5300	14.15	15.00		
	64	5320	14.23	15.00		
	64	5320	14.23	15.00		
802.11ac-VHT40 MCS0	54	5270	13.35	15.00	100.00	
	62	5310	14.15	15.00		
	62	5310	14.15	15.00		
	62	5310	14.15	15.00		
802.11ac-VHT80 MCS0	58	5290	14.26	15.00	100.00	
	50	5250	14.82	15.00		
	50	5250	14.82	15.00		
	50	5250	14.82	15.00		
802.11ax-HE20 MCS0	52	5260	13.51	15.00	100.00	
	56	5280	14.32	15.00		
	60	5300	14.14	15.00		
	64	5320	14.28	15.00		
802.11ax-HE40 MCS0	54	5270	14.36	15.00	100.00	
	62	5310	14.24	15.00		
	62	5310	14.24	15.00		
	62	5310	14.24	15.00		
802.11ax-HE80 MCS0	58	5290	14.40	15.00	100.00	
	50	5250	15.00	15.00		
	50	5250	15.00	15.00		
	50	5250	15.00	15.00		

Reduced Power level 5						
Ant 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5260	17.57	19.00	98.63	
	56	5280	17.39	19.00		
	60	5300	17.34	19.00		
	64	5320	17.37	19.00		
802.11a-HT20 MCS0	52	5260	16.54	18.00	100.00	
	56	5280	17.30	19.00		
	60	5300	17.19	19.00		

Reduced Power level 7						
Art 1+2						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
	802.11a (Mbps)	36	5180	14.67	16.00	98.63
		40	5200	14.52	16.00	
		44	5220	14.61	16.00	
		48	5240	14.60	16.00	
	802.11n-HT20 MCS0	36	5180	13.62	15.00	100.00
		40	5200	13.50	15.00	
		44	5220	13.70	15.00	
		48	5240	13.59	15.00	
	802.11n-HT40 MCS0	38	5190	13.37	16.00	100.00
		40	5200	13.59	15.00	
	802.11ac-VHT20 MCS0	36	5180	13.59	15.00	100.00
		40	5200	13.47	15.00	
		44	5220	13.66	15.00	
		48	5240	13.55	15.00	
	802.11ac-VHT40 MCS0	38	5190	13.47	15.00	100.00
		46	5230	13.50	15.00	
	802.11ac-VHT80 MCS0	42	5210	14.37	16.00	100.00
		36	5180	13.61	15.00	
	802.11ax-HE20 MCS0	40	5200	13.53	15.00	100.00
		44	5220	13.65	15.00	
		48	5240	13.56	15.00	
		38	5190	13.62	15.00	
	802.11ax-HE40 MCS0	46	5230	13.65	15.00	100.00
		42	5210	14.51	16.00	

Reduced Power level 8						
Art 1+2						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
	802.11a (Mbps)	36	5180	14.67	16.00	98.63
		40	5200	14.52	16.00	
		44	5220	14.61	16.00	
		48	5240	14.60	16.00	
	802.11n-HT20 MCS0	36	5180	13.62	15.00	100.00
		40	5200	13.50	15.00	
		44	5220	13.70	15.00	
		48	5240	13.59	15.00	
	802.11n-HT40 MCS0	38	5190	13.37	16.00	100.00
		40	5200	13.59	15.00	
	802.11ac-VHT20 MCS0	36	5180	13.59	15.00	100.00
		40	5200	13.47	15.00	
		44	5220	13.66	15.00	
		48	5240	13.55	15.00	
	802.11ac-VHT40 MCS0	38	5190	13.47	15.00	100.00
		46	5230	13.50	15.00	
	802.11ac-VHT80 MCS0	42	5210	14.37	16.00	100.00
		36	5180	13.61	15.00	
	802.11ax-HE20 MCS0	40	5200	13.53	15.00	100.00
		44	5220	13.65	15.00	
		48	5240	13.56	15.00	
		38	5190	13.62	15.00	
	802.11ax-HE40 MCS0	46	5230	13.65	15.00	100.00
		42	5210	14.51	16.00	

Reduced Power level 7						
Art 1+2						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
	802.11a (Mbps)	52	5260	14.57	16.00	98.63
		56	5280	14.39	16.00	
		60	5300	14.34	16.00	
		64	5320	14.37	16.00	
	802.11n-HT20 MCS0	52	5260	13.54	15.00	100.00
		56	5280	14.30	16.00	
		60	5300	14.19	16.00	
		64	5320	14.24	16.00	
	802.11n-HT40 MCS0	54	5270	13.41	16.00	100.00
		62	5310	14.26	16.00	
	802.11ac-VHT20 MCS0	52	5260	13.50	15.00	100.00
		56	5280	14.27	16.00	
		60	5300	14.15	16.00	
		64	5320	14.23	16.00	
	802.11ac-VHT40 MCS0	54	5270	13.35	15.00	100.00
		62	5310	14.15	16.00	
	802.11ac-VHT80 MCS0	58	5290	14.26	16.00	100.00
		50	5250	14.82	15.00	
	802.11ax-HE20 MCS0	52	5260	13.51	15.00	100.00
		56	5280	14.32	16.00	
		60	5300	14.14	16.00	
		64	5320	14.28	16.00	
	802.11ax-HE40 MCS0	54	5270	14.38	16.00	100.00
		62	5310	14.24	16.00	
	802.11ax-HE80 MCS0	58	5290	14.40	16.00	100.00
		50	5250	15.00	15.00	

Reduced Power level 8						
Art 1+2						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
	802.11a (Mbps)	52	5260	14.57	16.00	98.63
		56	5280	14.39	16.00	
		60	5300	14.34	16.00	
		64	5320	14.37	16.00	
	802.11n-HT20 MCS0	52	5260	13.54	15.00	100.00
		56	5280	14.30	16.00	
		60	5300	14.19	16.00	
		64	5320	14.24	16.00	
	802.11n-HT40 MCS0	54	5270	13.41	16.00	100.00
		62	5310	14.26	16.00	
	802.11ac-VHT20 MCS0	52	5260	13.50	15.00	100.00
		56	5280	14.27	16.00	
		60	5300	14.15	16.00	
		64	5320	14.23	16.00	
	802.11ac-VHT40 MCS0	54	5270	13.35	15.00	100.00
		62	5310	14.15	16.00	
	802.11ac-VHT80 MCS0	58	5290	14.26	16.00	100.00
		50	5250	14.82	15.00	
	802.11ax-HE20 MCS0	52	5260	13.51	15.00	100.00
		56	5280	14.32	16.00	
		60	5300	14.14	16.00	
		64	5320	14.28	16.00	
	802.11ax-HE40 MCS0	54	5270	14.38	16.00	100.00
		62	5310	14.24	16.00	
	802.11ax-HE80 MCS0	58	5290	14.40	16.00	100.00
		50	5250	15.00	15.00	

Reduced Power level 7						
Art 1+2						
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
	802.11a (Mbps)	100	5500	12.08	14.00	98.63
		116	5580	12.06	14.00	
		124	5620	12.05	14.00	
		132	5660	12.00	14.00	
		140	5700	12.00	14.00	
		144	5720	12.01	14.00	
	802.11n-HT20 MCS0	100	5500	12.14	14.00	100.00
		116	5580	12.11	14.00	
		124	5620	12.08	14.00	
		132	5660	12.07	14.00	
		140	5700	12.06	14.00	
		144	5720	12.04	14.00	
	802.11n-HT40 MCS0	102	5510	12.04	14.00	100.00
		110	5550	12.01	14.00	
		126	5630	12.13	14.00	
		134	5670	12.04	14.00	
		142	5710	12.06	14.00	
		100	5500	12.10	14.00	
	802.11ac-VHT20 MCS0	116	5580	12.09	14.00	100.00
		124	5620	12.06	14.00	
		132	5660	12.01	14.00	
		140	5700	12.03	14.00	
		144	5720	12.01	14.00	
		102	5510	12.02	14.00	
	802.11ac-VHT40 MCS0	110	5550	12.00	14.00	100.00
		126	5630	12.00	14.00	
		134	5670	12.02	14.00	
		142	5710	12.04	14.00	
		106	5530	12.01	14.00	
		122	5610	12.02	14.00	
	802.11ac-VHT80 MCS0	138	5690	12.08	14.00	100.00
		114	5570	12.56	13.00	
	802.11ax-HE20 MCS0	100	5500	12.01	14.00	100.00
		116	5580	12.19	14.00	
		124	5620	12.00	14.00	
		132	5660	12.10	14.00	
		140	5700	12.11	14.00	
		144	5720	12.09	14.00	
	802.11ax-HE40 MCS0	102	5510	12.07	14.00	100.00
		110	5550	12.01	14.00	
		126	5630	12.01	14.00	
		134	5670	12.16	14.00	
		142	5710	12.15	14.00	
		106	5530	12.12	14.00	
	802.11ax-HE80 MCS0	122	5610	12.15	14.00	100.00
		138	5690	12.09	14.00	
	802.11ax-HE160 MCS0	114	5570	13.49	14.00	100.00
		100	5500	12.01	14.00	

Reduced Power level 8						
Art 1+2						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %
5 GHz WLAN	802.11a 6Mbps	100	5500	12.08	14.00	98.63
		116	5580	12.06	14.00	
		124	5620	12.05	14.00	
		132	5660	12.60	14.00	
		140	5700	12.00	14.00	
		144	5720	12.01	14.00	
	802.11a-HT20 MCS0	100	5500	12.14	14.00	100.00
		116	5580	12.11	14.00	
		124	5620	12.08	14.00	
		132	5660	12.07	14.00	
		140	5700	12.06	14.00	
		144	5720	12.04	14.00	
	802.11a-HT40 MCS0	102	5510	12.04	14.00	100.00
		110	5550	12.01	14.00	
		126	5630	12.13	14.00	
		134	5670	12.04	14.00	
		142	5710	12.06	14.00	
		100	5500	12.10	14.00	
	802.11ac-VHT20 MCS0	116	5580	12.09	14.00	100.00
		124	5620	12.06	14.00	
		132	5660	12.07	14.00	
		140	5700	12.03	14.00	
		144	5720	12.01	14.00	
		102	5510	12.02	14.00	
802.11ac-VHT40 MCS0	110	5550	12.00	14.00	100.00	
	126	5630	12.09	14.00		
	134	5670	12.02	14.00		
	142	5710	12.04	14.00		
	106	5530	12.01	14.00		
	122	5610	12.02	14.00		
802.11ac-VHT80 MCS0	138	5690	12.08	14.00	100.00	
	114	5570	12.56	13.00		
802.11ax-HE20 MCS0	100	5500	12.01	14.00	100.00	
	116	5580	12.19	14.00		
	124	5620	12.00	14.00		
	132	5660	12.10	14.00		
	140	5700	12.11	14.00		
	144	5720	12.09	14.00		
802.11ax-HE40 MCS0	102	5510	12.07	14.00	100.00	
	110	5550	12.01	14.00		
	126	5630	12.01	14.00		
	134	5670	12.16	14.00		
	142	5710	12.15	14.00		
	106	5530	12.12	14.00		
802.11ax-HE80 MCS0	122	5610	12.15	14.00	100.00	
	138	5690	12.09	14.00		
802.11ax-HE160 MCS0	114	5570	13.49	14.00	100.00	



Reduced Power for Hotspot on

Reduced Power level 2

Art 2						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	12.80	14.50	100.00
		6	2437	13.10	14.50	
		11	2462	12.90	14.50	
	802.11g 6Mbps	1	2412	12.50	13.50	98.98
		6	2437	12.70	13.50	
		11	2462	12.60	13.50	
	802.11n-HT20 MCS0	1	2412	11.40	12.50	100.00
		6	2437	11.70	12.50	
		11	2462	11.60	12.50	
	802.11n-HT40 MCS0	3	2422	10.40	11.50	100.00
		6	2437	10.70	11.50	
		9	2452	10.20	11.50	
	802.11ac-VHT20 MCS0	1	2412	11.30	12.50	100.00
		6	2437	11.60	12.50	
		11	2462	11.50	12.50	
	802.11ac-VHT40 MCS0	3	2422	10.20	11.50	100.00
		6	2437	10.50	11.50	
		9	2452	10.10	11.50	
	802.11ax-HE20 MCS0	1	2412	11.30	12.50	100.00
		6	2437	11.70	12.50	
		11	2462	11.60	12.50	
	802.11ax-HE40 MCS0	3	2422	11.50	12.50	100.00
		6	2437	11.60	12.50	
		9	2452	11.20	12.50	

Reduced Power level 1

Art 1+2						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	15.96	17.50	100.00
		6	2437	16.01	17.50	
		11	2462	15.91	17.50	
	802.11g 6Mbps	1	2412	15.22	16.50	98.98
		6	2437	15.28	16.50	
		11	2462	15.23	16.50	
	802.11n-HT20 MCS0	1	2412	14.12	15.50	100.00
		6	2437	14.28	15.50	
		11	2462	14.23	15.50	
	802.11n-HT40 MCS0	3	2422	12.98	14.50	100.00
		6	2437	13.20	14.50	
		9	2452	12.83	14.50	
	802.11ac-VHT20 MCS0	1	2412	14.02	15.50	100.00
		6	2437	14.18	15.50	
		11	2462	14.13	15.50	
	802.11ac-VHT40 MCS0	3	2422	12.83	14.50	100.00
		6	2437	13.04	14.50	
		9	2452	12.73	14.50	
	802.11ax-HE20 MCS0	1	2412	14.02	15.50	100.00
		6	2437	14.20	15.50	
		11	2462	14.23	15.50	
	802.11ax-HE40 MCS0	3	2422	14.00	15.50	100.00
		6	2437	14.10	15.50	
		9	2452	13.92	15.50	



Reduced Power level 4

Ant 2						
2.4GHz WLAN	Mode	Channel	Frequency (Mhz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	11.80	13.50	100.00
		6	2437	12.10	13.50	
		11	2462	11.90	13.50	
	802.11g 6Mbps	1	2412	11.50	12.50	98.98
		6	2437	11.70	12.50	
		11	2462	11.60	12.50	
	802.11n-HT20 MCS0	1	2412	10.40	11.50	100.00
		6	2437	10.70	11.50	
		11	2462	10.60	11.50	
	802.11n-HT40 MCS0	3	2422	9.40	10.50	100.00
		6	2437	9.70	10.50	
		9	2452	9.20	10.50	
	802.11ac-VHT20 MCS0	1	2412	10.30	11.50	100.00
		6	2437	10.60	11.50	
		11	2462	10.50	11.50	
	802.11ac-VHT40 MCS0	3	2422	9.20	10.50	100.00
		6	2437	9.50	10.50	
		9	2452	9.10	10.50	
	802.11ax-HE20 MCS0	1	2412	10.30	11.50	100.00
		6	2437	10.70	11.50	
		11	2462	10.60	11.50	
	802.11ax-HE40 MCS0	3	2422	10.50	11.50	100.00
		6	2437	10.60	11.50	
		9	2452	10.20	11.50	

Reduced Power level 3

Ant 1+2						
2.4GHz WLAN	Mode	Channel	Frequency (Mhz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	14.96	16.50	100.00
		6	2437	15.01	16.50	
		11	2462	14.91	16.50	
	802.11g 6Mbps	1	2412	14.22	15.50	98.98
		6	2437	14.28	15.50	
		11	2462	14.23	15.50	
	802.11n-HT20 MCS0	1	2412	13.12	14.50	100.00
		6	2437	13.28	14.50	
		11	2462	13.23	14.50	
	802.11n-HT40 MCS0	3	2422	11.98	13.50	100.00
		6	2437	12.20	13.50	
		9	2452	11.83	13.50	
	802.11ac-VHT20 MCS0	1	2412	13.02	14.50	100.00
		6	2437	13.18	14.50	
		11	2462	13.13	14.50	
	802.11ac-VHT40 MCS0	3	2422	11.83	13.50	100.00
		6	2437	12.04	13.50	
		9	2452	11.73	13.50	
	802.11ax-HE20 MCS0	1	2412	13.02	14.50	100.00
		6	2437	13.20	14.50	
		11	2462	13.23	14.50	
	802.11ax-HE40 MCS0	3	2422	13.00	14.50	100.00
		6	2437	13.10	14.50	
		9	2452	12.92	14.50	



Reduced Power level 1

Ant 1+2						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	18.67	20.00	98.63
		40	5200	18.52	20.00	
		44	5220	18.61	20.00	
		48	5240	18.60	20.00	
	802.11n-HT20 MCS0	36	5180	17.62	19.00	100.00
		40	5200	17.50	19.00	
		44	5220	17.70	19.00	
		48	5240	17.59	19.00	
	802.11n-HT40 MCS0	38	5190	17.57	19.00	100.00
		46	5230	17.59	19.00	
	802.11ac-VHT20 MCS0	36	5180	17.59	19.00	100.00
		40	5200	17.47	19.00	
		44	5220	17.66	19.00	
	802.11ac-VHT40 MCS0	48	5240	17.55	19.00	100.00
		38	5190	17.47	19.00	
		46	5230	17.50	19.00	
	802.11ac-VHT80 MCS0	42	5210	18.37	20.00	100.00
		36	5180	17.61	19.00	
	802.11ax-HE20 MCS0	40	5200	17.53	19.00	100.00
		44	5220	17.65	19.00	
		48	5240	17.56	19.00	
	802.11ax-HE40 MCS0	38	5190	17.62	19.00	100.00
		46	5230	17.65	19.00	
	802.11ax-HE80 MCS0	42	5210	18.51	20.00	100.00

Reduced Power level 2

Ant 1+2						
5.2GHz WLAN	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
	36	5180	18.67	20.00	98.63	
	40	5200	18.52	20.00		
	44	5220	18.61	20.00		
	48	5240	18.60	20.00		
	36	5180	17.62	19.00	100.00	
	40	5200	17.50	19.00		
	44	5220	17.70	19.00		
	48	5240	17.59	19.00		
	38	5190	17.57	19.00	100.00	
	46	5230	17.59	19.00		
	36	5180	17.59	19.00	100.00	
	40	5200	17.47	19.00		
	44	5220	17.66	19.00		
	48	5240	17.55	19.00	100.00	
	38	5190	17.47	19.00		
	46	5230	17.50	19.00		
	42	5210	18.37	20.00	100.00	100.00
	36	5180	17.61	19.00	100.00	
	40	5200	17.53	19.00		
	44	5220	17.65	19.00		
	48	5240	17.56	19.00	100.00	
	38	5190	17.62	19.00		
	46	5230	17.65	19.00	100.00	100.00
	42	5210	18.51	20.00	100.00	100.00

Reduced Power level 3

Ant 1+2						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	16.67	18.00	98.63
		40	5200	16.52	18.00	
		44	5220	16.61	18.00	
		48	5240	16.60	18.00	
	802.11n-HT20 MCS0	36	5180	15.62	17.00	100.00
		40	5200	15.50	17.00	
		44	5220	15.70	17.00	
		48	5240	15.59	17.00	
	802.11n-HT40 MCS0	38	5190	15.57	17.00	100.00
		46	5230	15.59	17.00	
	802.11ac-VHT20 MCS0	36	5180	15.59	17.00	100.00
		40	5200	15.47	17.00	
		44	5220	15.66	17.00	
	802.11ac-VHT40 MCS0	48	5240	15.55	17.00	100.00
		38	5190	15.47	17.00	
		46	5230	15.50	17.00	
	802.11ac-VHT80 MCS0	42	5210	16.37	18.00	100.00
		36	5180	15.61	17.00	
	802.11ax-HE20 MCS0	40	5200	15.53	17.00	100.00
		44	5220	15.65	17.00	
		48	5240	15.56	17.00	
	802.11ax-HE40 MCS0	38	5190	15.62	17.00	100.00
		46	5230	15.65	17.00	
	802.11ax-HE80 MCS0	42	5210	16.51	18.00	100.00

Reduced Power level 1

Ant 1+2						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	19.09	21.00	98.63
		157	5785	19.08	21.00	
		165	5825	19.14	21.00	
		149	5745	19.17	21.00	
	802.11n-HT20 MCS0	157	5785	19.14	21.00	100.00
		165	5825	19.01	21.00	
		151	5755	19.17	21.00	
		159	5795	19.09	21.00	
	802.11n-HT40 MCS0	149	5745	19.07	21.00	100.00
		157	5785	19.08	21.00	
		165	5825	19.00	21.00	
	802.11ac-VHT20 MCS0	151	5755	19.08	21.00	100.00
		159	5795	19.05	21.00	
	802.11ac-VHT40 MCS0	155	5775	19.18	21.00	100.00
		149	5745	19.01	21.00	
	802.11ax-HE20 MCS0	157	5785	19.08	21.00	100.00
		165	5825	19.04	21.00	
		151	5755	19.09	21.00	100.00
	802.11ax-HE40 MCS0	159	5795	19.07	21.00	
	802.11ax-HE80 MCS0	155	5775	19.21	21.00	100.00

Reduced Power level 2

Ant 1+2						
5.8GHz WLAN	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
	149	5745	19.09	21.00	98.63	
	157	5785	19.08	21.00		
	165	5825	19.14	21.00		
	149	5745	19.17	21.00		
	157	5785	19.14	21.00	100.00	
	165	5825	19.01	21.00		
	151	5755	19.17	21.00		
	159	5795	19.09	21.00		
	149	5745	19.07	21.00	100.00	
	157	5785	19.08	21.00		
	165	5825	19.00	21.00		
	151	5755	19.08	21.00	100.00	
	159	5795	19.05	21.00		
	155	5775	19.18	21.00	100.00	100.00
	149	5745	19.01	21.00	100.00	
	157	5785	19.08	21.00		
	165	5825	19.04	21.00		
	151	5755	19.09	21.00	100.00	
	159	5795	19.07	21.00		
	155	5775	19.21	21.00	100.00	100.00

Reduced Power level 3

Ant 1+2						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	18.09	20.00	98.63
		157	5785	18.08	20.00	
		165	5825	18.14	20.00	
		149	5745	18.17	20.00	
	802.11n-HT20 MCS0	157	5785	18.14	20.00	100.00
		165	5825	18.01	20.00	
		151	5755	18.17	20.00	
		159	5795	18.09	20.00	
	802.11n-HT40 MCS0	149	5745	18.07	20.00	100.00
		157	5785	18.08	20.00	
		165	5825	18.00	20.00	
	802.11ac-VHT20 MCS0	151	5755	18.06	20.00	100.00
		159	5795	18.05	20.00	
	802.11ac-VHT40 MCS0	155	5775	18.18	20.00	100.00
		149	5745	18.01	20.00	
	802.11ax-HE20 MCS0	157	5785	18.08	20.00	100.00
		165	5825	18.04	20.00	
		151	5755	18.09	20.00	100.00
	802.11ax-HE40 MCS0	159	5795	18.07	20.00	
	802.11ax-HE80 MCS0	155	5775	18.21	20.00	100.00



Reduced Power level 4

Ant 1+2						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	14.67	16.00	98.63
		40	5200	14.52	16.00	
		44	5220	14.61	16.00	
		48	5240	14.60	16.00	
	802.11n-HT20 MCS0	36	5180	13.62	15.00	100.00
		40	5200	13.50	15.00	
		44	5220	13.70	15.00	
		48	5240	13.59	15.00	
	802.11n-HT40 MCS0	38	5190	13.57	15.00	100.00
		46	5230	13.59	15.00	
		36	5180	13.59	15.00	
	802.11ac-VHT20 MCS0	40	5200	13.47	15.00	100.00
		44	5220	13.66	15.00	
		48	5240	13.55	15.00	
	802.11ac-VHT40 MCS0	38	5190	13.47	15.00	100.00
		46	5230	13.50	15.00	
	802.11ac-VHT80 MCS0	42	5210	14.37	16.00	100.00
		36	5180	13.61	15.00	
	802.11ax-HE20 MCS0	40	5200	13.53	15.00	100.00
		44	5220	13.65	15.00	
		48	5240	13.56	15.00	
		38	5190	13.62	15.00	
	802.11ax-HE40 MCS0	46	5230	13.65	15.00	100.00
		42	5210	14.51	16.00	
	802.11ax-HE80 MCS0	42	5210	14.51	16.00	100.00

Reduced Power level 4

Ant 1+2						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	15.09	17.00	98.63
		157	5785	15.08	17.00	
		165	5825	15.14	17.00	
		149	5745	15.17	17.00	
	802.11n-HT20 MCS0	157	5785	15.14	17.00	100.00
		165	5825	15.01	17.00	
		151	5755	15.17	17.00	
		159	5795	15.09	17.00	
	802.11n-HT40 MCS0	149	5745	15.07	17.00	100.00
		157	5785	15.08	17.00	
		165	5825	15.00	17.00	
	802.11ac-VHT40 MCS0	151	5755	15.08	17.00	100.00
		159	5795	15.05	17.00	
	802.11ac-VHT80 MCS0	155	5775	15.18	17.00	100.00
		149	5745	15.01	17.00	
	802.11ax-HE20 MCS0	157	5785	15.08	17.00	100.00
		165	5825	15.04	17.00	
		151	5755	15.09	17.00	
	802.11ax-HE40 MCS0	159	5795	15.07	17.00	100.00
		155	5775	15.21	17.00	
	802.11ax-HE80 MCS0	155	5775	15.21	17.00	100.00

Reduced Power level 5

Ant 1+2						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	16.67	18.00	98.63
		40	5200	16.52	18.00	
		44	5220	16.61	18.00	
		48	5240	16.60	18.00	
	802.11n-HT20 MCS0	36	5180	15.62	17.00	100.00
		40	5200	15.50	17.00	
		44	5220	15.70	17.00	
		48	5240	15.59	17.00	
	802.11n-HT40 MCS0	38	5190	15.57	17.00	100.00
		46	5230	15.59	17.00	
		36	5180	15.59	17.00	
	802.11ac-VHT20 MCS0	40	5200	15.47	17.00	100.00
		44	5220	15.66	17.00	
		48	5240	15.55	17.00	
	802.11ac-VHT40 MCS0	38	5190	15.47	17.00	100.00
		46	5230	15.50	17.00	
	802.11ac-VHT80 MCS0	42	5210	16.37	18.00	100.00
		36	5180	15.61	17.00	
	802.11ax-HE20 MCS0	40	5200	15.53	17.00	100.00
		44	5220	15.65	17.00	
		48	5240	15.56	17.00	
		38	5190	15.62	17.00	
	802.11ax-HE40 MCS0	46	5230	15.65	17.00	100.00
		42	5210	16.51	18.00	
	802.11ax-HE80 MCS0	42	5210	16.51	18.00	100.00

Reduced Power level 5

Ant 1+2						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	18.09	20.00	98.63
		157	5785	18.08	20.00	
		165	5825	18.14	20.00	
		149	5745	18.17	20.00	
	802.11n-HT20 MCS0	157	5785	18.14	20.00	100.00
		165	5825	18.01	20.00	
		151	5755	18.17	20.00	
		159	5795	18.09	20.00	
	802.11n-HT40 MCS0	149	5745	18.07	20.00	100.00
		157	5785	18.08	20.00	
		165	5825	18.00	20.00	
	802.11ac-VHT40 MCS0	151	5755	18.08	20.00	100.00
		159	5795	18.05	20.00	
	802.11ac-VHT80 MCS0	155	5775	18.18	20.00	100.00
		149	5745	18.01	20.00	
	802.11ax-HE20 MCS0	157	5785	18.08	20.00	100.00
		165	5825	18.04	20.00	
		151	5755	18.09	20.00	
	802.11ax-HE40 MCS0	159	5795	18.07	20.00	100.00
		155	5775	18.21	20.00	
	802.11ax-HE80 MCS0	155	5775	18.21	20.00	100.00

Reduced Power level 6

Ant 1+2						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	16.67	18.00	98.63
		40	5200	16.52	18.00	
		44	5220	16.61	18.00	
		48	5240	16.60	18.00	
	802.11n-HT20 MCS0	36	5180	15.62	17.00	100.00
		40	5200	15.50	17.00	
		44	5220	15.70	17.00	
		48	5240	15.59	17.00	
	802.11n-HT40 MCS0	38	5190	15.57	17.00	100.00
		46	5230	15.59	17.00	
		36	5180	15.59	17.00	
	802.11ac-VHT20 MCS0	40	5200	15.47	17.00	100.00
		44	5220	15.66	17.00	
		48	5240	15.55	17.00	
	802.11ac-VHT40 MCS0	38	5190	15.47	17.00	100.00
		46	5230	15.50	17.00	
	802.11ac-VHT80 MCS0	42	5210	16.37	18.00	100.00
		36	5180	15.61	17.00	
	802.11ax-HE20 MCS0	40	5200	15.53	17.00	100.00
		44	5220	15.65	17.00	
		48	5240	15.56	17.00	
		38	5190	15.62	17.00	
	802.11ax-HE40 MCS0	46	5230	15.65	17.00	100.00
		42	5210	16.51	18.00	
	802.11ax-HE80 MCS0	42	5210	16.51	18.00	100.00

Reduced Power level 6

Ant 1+2						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	18.09	20.00	98.63
		157	5785	18.08	20.00	
		165	5825	18.14	20.00	
		149	5745	18.17	20.00	
	802.11n-HT20 MCS0	157	5785	18.14	20.00	100.00
		165	5825	18.01	20.00	
		151	5755	18.17	20.00	
		159	5795	18.09	20.00	
	802.11n-HT40 MCS0	149	5745	18.07	20.00	100.00
		157	5785	18.08	20.00	
		165	5825	18.00	20.00	
	802.11ac-VHT40 MCS0	151	5755	18.08	20.00	100.00
		159	5795	18.05	20.00	
	802.11ac-VHT80 MCS0	155	5775	18.18	20.00	100.00
		149	5745	18.01	20.00	
	802.11ax-HE20 MCS0	157	5785	18.08	20.00	100.00
		165	5825	18.04	20.00	
		151	5755	18.09	20.00	
	802.11ax-HE40 MCS0	159	5795	18.07	20.00	100.00
		155	5775	18.21	20.00	
	802.11ax-HE80 MCS0	155	5775	18.21	20.00	100.00



Reduced Power level 7

Ant 1+2						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	14.67	16.00	98.63
		40	5200	14.52	16.00	
		44	5220	14.61	16.00	
		48	5240	14.60	16.00	
	802.11n-HT20 MCS0	36	5180	13.62	15.00	100.00
		40	5200	13.50	15.00	
		44	5220	13.70	15.00	
		48	5240	13.59	15.00	
	802.11n-HT40 MCS0	38	5190	13.57	15.00	100.00
		46	5230	13.59	15.00	
		36	5180	13.59	15.00	
		40	5200	13.47	15.00	
	802.11ac-VHT20 MCS0	44	5220	13.66	15.00	100.00
		48	5240	13.55	15.00	
		38	5190	13.47	15.00	
		46	5230	13.50	15.00	
	802.11ac-VHT40 MCS0	46	5230	13.50	15.00	100.00
		42	5210	14.37	16.00	
	802.11ac-VHT80 MCS0	42	5210	14.37	16.00	100.00
		36	5180	13.61	15.00	
	802.11ax-HE20 MCS0	40	5200	13.53	15.00	100.00
		44	5220	13.65	15.00	
		48	5240	13.56	15.00	
		38	5190	13.62	15.00	
	802.11ax-HE40 MCS0	46	5230	13.65	15.00	100.00
		42	5210	14.51	16.00	

Reduced Power level 8

Ant 1+2						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	14.67	16.00	98.63
		40	5200	14.52	16.00	
		44	5220	14.61	16.00	
		48	5240	14.60	16.00	
	802.11n-HT20 MCS0	36	5180	13.62	15.00	100.00
		40	5200	13.50	15.00	
		44	5220	13.70	15.00	
		48	5240	13.59	15.00	
	802.11n-HT40 MCS0	38	5190	13.57	15.00	100.00
		46	5230	13.59	15.00	
		36	5180	13.59	15.00	
		40	5200	13.47	15.00	
	802.11ac-VHT20 MCS0	44	5220	13.66	15.00	100.00
		48	5240	13.55	15.00	
		38	5190	13.47	15.00	
		46	5230	13.50	15.00	
	802.11ac-VHT40 MCS0	46	5230	13.50	15.00	100.00
		42	5210	14.37	16.00	
	802.11ac-VHT80 MCS0	42	5210	14.37	16.00	100.00
		36	5180	13.61	15.00	
	802.11ax-HE20 MCS0	40	5200	13.53	15.00	100.00
		44	5220	13.65	15.00	
		48	5240	13.56	15.00	
		38	5190	13.62	15.00	
	802.11ax-HE40 MCS0	46	5230	13.65	15.00	100.00
		42	5210	14.51	16.00	

Reduced Power level 7

Ant 1+2						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	15.09	17.00	98.63
		157	5785	15.08	17.00	
		165	5825	15.14	17.00	
		149	5745	15.17	17.00	
	802.11n-HT20 MCS0	157	5785	15.14	17.00	100.00
		165	5825	15.01	17.00	
	802.11n-HT40 MCS0	151	5755	15.17	17.00	100.00
		159	5795	15.09	17.00	
		149	5745	15.07	17.00	
		157	5785	15.08	17.00	
	802.11ac-VHT20 MCS0	165	5825	15.00	17.00	100.00
		151	5755	15.08	17.00	
		159	5795	15.05	17.00	
		155	5775	15.18	17.00	
	802.11ac-VHT40 MCS0	155	5775	15.18	17.00	100.00
		149	5745	15.01	17.00	
		157	5785	15.08	17.00	
		165	5825	15.04	17.00	
	802.11ac-VHT80 MCS0	151	5755	15.09	17.00	100.00
		159	5795	15.07	17.00	
		155	5775	15.21	17.00	
		149	5745	15.01	17.00	

Reduced Power level 8

Ant 1+2						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	15.09	17.00	98.63
		157	5785	15.08	17.00	
		165	5825	15.14	17.00	
		149	5745	15.17	17.00	
	802.11n-HT20 MCS0	157	5785	15.14	17.00	100.00
		165	5825	15.01	17.00	
	802.11n-HT40 MCS0	151	5755	15.17	17.00	100.00
		159	5795	15.09	17.00	
		149	5745	15.07	17.00	
		157	5785	15.08	17.00	
	802.11ac-VHT20 MCS0	165	5825	15.00	17.00	100.00
		151	5755	15.08	17.00	
		159	5795	15.05	17.00	
		155	5775	15.18	17.00	
	802.11ac-VHT40 MCS0	155	5775	15.18	17.00	100.00
		149	5745	15.01	17.00	
		157	5785	15.08	17.00	
		165	5825	15.04	17.00	
	802.11ac-VHT80 MCS0	151	5755	15.09	17.00	100.00
		159	5795	15.07	17.00	
		155	5775	15.21	17.00	
		149	5745	15.01	17.00	



Reduced Power level 3

Ant 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	16.67	18.00	98.63	
	40	5200	16.52	18.00		
	44	5220	16.61	18.00		
	48	5240	16.60	18.00		
802.11n HT20 MCS0	36	5180	15.62	17.00	100.00	
	40	5200	15.59	17.00		
	44	5220	15.70	17.00		
	48	5240	15.59	17.00		
802.11n HT40 MCS0	36	5180	15.57	17.00	100.00	
	46	5230	15.59	17.00		
	36	5180	15.59	17.00		
	40	5200	15.47	17.00		
802.11ac VHT20 MCS0	44	5220	15.66	17.00	100.00	
	48	5240	15.55	17.00		
	36	5180	15.47	17.00		
	46	5230	15.50	17.00		
802.11ac VHT40 MCS0	42	5210	16.37	18.00	100.00	
	36	5180	16.61	17.00		
802.11ax HE20 MCS0	40	5200	15.53	17.00	100.00	
	44	5220	15.65	17.00		
	48	5240	15.56	17.00		
	36	5180	15.62	17.00		
802.11ax HE40 MCS0	46	5230	15.65	17.00	100.00	
	42	5210	16.51	18.00		

Reduced Power level 3

Ant 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5260	16.57	18.00	98.63	
	56	5280	16.39	18.00		
	60	5300	16.34	18.00		
	64	5320	16.37	18.00		
802.11n HT20 MCS0	52	5260	15.54	17.00	100.00	
	56	5280	16.30	18.00		
	60	5300	16.19	18.00		
	64	5320	16.24	18.00		
802.11n HT40 MCS0	54	5270	15.41	17.00	100.00	
	52	5260	16.26	18.00		
802.11ac VHT20 MCS0	52	5260	15.50	17.00	100.00	
	56	5280	16.27	18.00		
	60	5300	16.15	18.00		
	64	5320	16.23	18.00		
802.11ac VHT40 MCS0	54	5270	15.35	17.00	100.00	
	62	5310	16.15	18.00		
802.11ac VHT80 MCS0	58	5290	16.26	18.00	100.00	
	50	5250	16.82	17.00		
802.11ac VHT160 MCS0	52	5260	15.51	17.00	100	
	56	5280	16.32	18.00		
802.11ax HE20 MCS0	60	5300	16.14	18.00	100.00	
	64	5320	16.28	18.00		
	54	5270	16.38	18.00		
	62	5310	16.24	18.00		
802.11ax HE40 MCS0	58	5290	16.40	18.00	100.00	
	50	5250	17.00	17.00		

Reduced Power for Body-worn&Extremity

Reduced Power level 4

Ant 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	16.67	18.00	98.63	
	40	5200	16.52	18.00		
	44	5220	16.61	18.00		
	48	5240	16.60	18.00		
802.11n HT20 MCS0	36	5180	15.62	17.00	100.00	
	40	5200	15.59	17.00		
	44	5220	15.70	17.00		
	48	5240	15.59	17.00		
802.11n HT40 MCS0	36	5180	15.57	17.00	100.00	
	46	5230	15.59	17.00		
	36	5180	15.59	17.00		
	40	5200	15.47	17.00		
802.11ac VHT20 MCS0	44	5220	15.66	17.00	100.00	
	48	5240	15.55	17.00		
802.11ac VHT40 MCS0	36	5180	15.47	17.00	100.00	
	46	5230	15.50	17.00		
802.11ac VHT80 MCS0	42	5210	16.37	18.00	100.00	
	36	5180	16.61	17.00		
802.11ax HE20 MCS0	40	5200	15.53	17.00	100.00	
	44	5220	15.65	17.00		
	48	5240	15.56	17.00		
	36	5180	15.62	17.00		
802.11ax HE40 MCS0	46	5230	15.65	17.00	100.00	
	42	5210	16.51	18.00		

Reduced Power level 4

Ant 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5260	16.57	18.00	98.63	
	56	5280	16.39	18.00		
	60	5300	16.34	18.00		
	64	5320	16.37	18.00		
802.11n HT20 MCS0	52	5260	15.54	17.00	100.00	
	56	5280	16.30	18.00		
	60	5300	16.19	18.00		
	64	5320	16.24	18.00		
802.11n HT40 MCS0	54	5270	15.41	17.00	100.00	
	52	5260	16.26	18.00		
802.11ac VHT20 MCS0	52	5260	15.50	17.00	100.00	
	56	5280	16.27	18.00		
	60	5300	16.15	18.00		
	64	5320	16.23	18.00		
802.11ac VHT40 MCS0	54	5270	15.35	17.00	100.00	
	62	5310	16.15	18.00		
802.11ac VHT80 MCS0	58	5290	16.26	18.00	100.00	
	50	5250	16.82	17.00		
802.11ac VHT160 MCS0	52	5260	15.51	17.00	100	
	56	5280	16.32	18.00		
802.11ax HE20 MCS0	60	5300	16.14	18.00	100.00	
	64	5320	16.28	18.00		
	54	5270	16.38	18.00		
	62	5310	16.24	18.00		
802.11ax HE40 MCS0	58	5290	16.40	18.00	100.00	
	50	5250	17.00	17.00		

Reduced Power level 5

Ant 1+2						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	16.67	18.00	98.63	
	40	5200	16.52	18.00		
	44	5220	16.61	18.00		
	48	5240	16.60	18.00		
802.11n HT20 MCS0	36	5180	15.62	17.00	100.00	
	40	5200	15.59	17.00		
	44	5220	15.70	17.00		
	48	5240	15.59	17.00		
802.11n HT40 MCS0	36	5180	15.57	17.00	100.00	
	46	5230	15.59	17.00		
	36	5180	15.59	17.00		
	40	5200	15.47	17.00		
802.11ac VHT20 MCS0	44	5220	15.66	17.00	100.00	
	48	5240	15.55	17.00		
802.11ac VHT40 MCS0	36	5180	15.47	17.00	100.00	
	46	5230	15.50	17.00		
802.11ac VHT80 MCS0	42	5210	16.37	18.00	100.00	
	36	5180	16.61	17.00		
802.11ax HE20 MCS0	40	5200	15.53	17.00	100.00	
	44	5220	15.65	17.00		
	48	5240	15.56	17.00		
	36	5180	15.62	17.00		
802.11ax HE40 MCS0	46	5230	15.65	17.00	100.00	
	42	5210	16.51	18.00		

Reduced Power level 5

Ant 1+2								
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %		
5.8GHz WLAN	802.11a 6Mbps	52	5260	16.57	18.00	98.63		
		56	5280	16.39	18.00			
		60	5300	16.34	18.00			
		64	5320	16.37	18.00			
	802.11n-HT20 MCS0	52	5260	15.54	17.00	100.00		
		56	5280	16.30	18.00			
		60	5300	16.19	18.00			
		64	5320	16.24	18.00			
	802.11n-HT40 MCS0	54	5270	15.41	17.00	100.00		
		62	5310	16.26	18.00			
		52	5260	15.50	17.00			
		56	5280	16.27	18.00			
	802.11ac VHT20 MCS0	60	5300	16.15	18.00	100.00		
		64	5320	16.23	18.00			
		802.11ac VHT40 MCS0	54	5270	15.35		17.00	100.00
			62	5310	16.11		18.00	
	802.11ac VHT80 MCS0	58	5290	16.38	18.00	100.00		
		802.11ac VHT 160 MCS0	50	5250	16.82	17.00	100	
	802.11ax HE20 MCS0	52	5260	15.51	17.00	100.00		
		56	5280	16.32	18.00			
60		5300	16.16	18.00				
64		5320	16.28	18.00				
802.11ax HE40 MCS0	54	5270	16.38	18.00	100.00			
	62	5310	16.24	18.00				
	802.11ax HE80 MCS0	58	5290	16.40		18.00	100.00	
	802.11ax HE160 MCS0	50	5250	17.00		17.00	100.00	



Reduced Power level 6						
Art 112						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
	802.11a @Mbps	36	5180	16.67	18.00	98.63
		40	5200	16.52	18.00	
		44	5220	16.61	18.00	
		48	5240	16.60	18.00	
	802.11a-HT20 MCS0	36	5180	15.62	17.00	100.00
		40	5200	15.50	17.00	
		44	5220	15.70	17.00	
		48	5240	15.59	17.00	
	802.11a-HT40 MCS0	36	5180	15.57	17.00	100.00
		46	5230	15.59	17.00	
		46	5180	15.59	17.00	
		40	5200	15.47	17.00	
	802.11ac-VHT20 MCS0	44	5220	15.66	17.00	100.00
		48	5240	15.55	17.00	
	802.11ac-VHT40 MCS0	38	5190	15.47	17.00	100.00
		46	5230	15.50	17.00	
	802.11ac-VHT80 MCS0	42	5210	16.37	16.00	100.00
		38	5180	15.61	17.00	
	802.11ax-HE30 MCS0	40	5200	15.53	17.00	100.00
		44	5220	15.65	17.00	
	802.11ax-HE40 MCS0	38	5190	15.62	17.00	100.00
		46	5230	15.65	17.00	
	802.11ax-HE80 MCS0	42	5210	16.51	18.00	100.00

Reduced Power level 6						
Art 112						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
	802.11a @Mbps	52	5260	16.57	18.00	98.63
		56	5280	16.39	18.00	
		60	5300	16.34	18.00	
		64	5320	16.37	18.00	
	802.11a-HT20 MCS0	52	5260	15.54	17.00	100.00
		56	5280	16.30	18.00	
		60	5300	16.19	18.00	
		64	5320	16.24	18.00	
	802.11a-HT40 MCS0	54	5270	15.41	17.00	100.00
		62	5310	16.26	18.00	
	802.11ac-VHT20 MCS0	52	5260	15.50	17.00	100.00
		56	5280	16.27	18.00	
		60	5300	16.15	18.00	
		64	5320	16.23	18.00	
	802.11ac-VHT40 MCS0	54	5270	15.35	17.00	100.00
		62	5310	16.15	18.00	
	802.11ac-VHT80 MCS0	58	5290	16.26	18.00	100.00
		50	5250	16.82	17.00	
	802.11ac-VHT160 MCS0	52	5260	15.51	17.00	100.00
		56	5280	16.32	18.00	
	802.11ax-HE30 MCS0	60	5300	16.14	18.00	100.00
		64	5320	16.28	18.00	
	802.11ax-HE40 MCS0	54	5270	16.38	18.00	100.00
		62	5310	16.24	18.00	
	802.11ax-HE80 MCS0	58	5290	16.40	18.00	100.00
		50	5250	17.00	17.00	
	802.11ax-HE160 MCS0	50	5250	17.00	17.00	100.00

Reduced Power level 7						
Art 112						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
	802.11a @Mbps	36	5180	16.67	18.00	98.63
		40	5200	16.52	18.00	
		44	5220	16.61	18.00	
		48	5240	16.60	18.00	
	802.11a-HT20 MCS0	36	5180	15.62	17.00	100.00
		40	5200	15.50	17.00	
		44	5220	15.70	17.00	
		48	5240	15.59	17.00	
	802.11a-HT40 MCS0	38	5190	15.57	17.00	100.00
		46	5230	15.59	17.00	
		36	5180	15.59	17.00	
		40	5200	15.47	17.00	
	802.11ac-VHT20 MCS0	44	5220	15.66	17.00	100.00
		48	5240	15.55	17.00	
	802.11ac-VHT40 MCS0	38	5190	15.47	17.00	100.00
		46	5230	15.50	17.00	
	802.11ac-VHT80 MCS0	42	5210	16.37	16.00	100.00
		36	5180	15.61	17.00	
	802.11ax-HE30 MCS0	40	5200	15.53	17.00	100.00
		44	5220	15.65	17.00	
	802.11ax-HE40 MCS0	38	5190	15.62	17.00	100.00
		46	5230	15.65	17.00	
	802.11ax-HE80 MCS0	42	5210	16.51	18.00	100.00

Reduced Power level 7						
Art 112						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
	802.11a @Mbps	52	5260	16.57	18.00	98.63
		56	5280	16.39	18.00	
		60	5300	16.34	18.00	
		64	5320	16.37	18.00	
	802.11a-HT20 MCS0	52	5260	15.54	17.00	100.00
		56	5280	16.30	18.00	
		60	5300	16.19	18.00	
		64	5320	16.24	18.00	
	802.11a-HT40 MCS0	54	5270	15.41	17.00	100.00
		62	5310	16.26	18.00	
	802.11ac-VHT20 MCS0	52	5260	15.50	17.00	100.00
		56	5280	16.27	18.00	
		60	5300	16.15	18.00	
		64	5320	16.23	18.00	
	802.11ac-VHT40 MCS0	54	5270	15.35	17.00	100.00
		62	5310	16.15	18.00	
	802.11ac-VHT80 MCS0	58	5290	16.26	18.00	100.00
		50	5250	16.82	17.00	
	802.11ac-VHT160 MCS0	52	5260	15.51	17.00	100.00
		56	5280	16.32	18.00	
	802.11ax-HE30 MCS0	60	5300	16.14	18.00	100.00
		64	5320	16.28	18.00	
	802.11ax-HE40 MCS0	54	5270	16.38	18.00	100.00
		62	5310	16.24	18.00	
	802.11ax-HE80 MCS0	58	5290	16.40	18.00	100.00
		50	5250	17.00	17.00	
	802.11ax-HE160 MCS0	50	5250	17.00	17.00	100.00

Reduced Power level 7						
Art 11-2						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a @Mbps	100	5500	19.08	21.00	98.63
		116	5580	19.06	21.00	
		124	5620	19.05	21.00	
		132	5660	19.05	21.00	
		140	5700	19.00	21.00	
		144	5720	19.01	21.00	
	802.11a-HT20 MCS0	100	5500	19.14	21.00	100.00
		116	5580	19.11	21.00	
		124	5620	19.08	21.00	
		132	5660	19.07	21.00	
		140	5700	19.06	21.00	
		144	5720	19.04	21.00	
	802.11a-HT40 MCS0	102	5510	19.04	21.00	100.00
		110	5550	19.01	21.00	
		126	5630	19.13	21.00	
		134	5670	19.04	21.00	
		142	5710	19.06	21.00	
		150	5650	19.01	21.00	
	802.11ac-VHT20 MCS0	100	5500	19.10	21.00	100.00
		116	5580	19.09	21.00	
		124	5620	19.06	21.00	
		132	5660	19.01	21.00	
		140	5700	19.03	21.00	
		144	5720	19.01	21.00	
		102	5510	19.02	21.00	100.00
		110	5550	19.00	21.00	
		126	5630	19.09	21.00	
		134	5670	19.02	21.00	
		142	5710	19.04	21.00	
		150	5650	19.01	21.00	
	802.11ac-VHT80 MCS0	106	5530	19.01	21.00	100.00
		122	5610	19.02	21.00	
		138	5690	19.08	21.00	
		114	5570	19.06	20.00	
		100	5500	19.01	21.00	
		116	5580	19.19	21.00	
	802.11ax-HE30 MCS0	124	5620	19.00	21.00	100.00
		132	5660	19.10	21.00	
		140	5700	19.11	21.00	
		144	5720	19.08	21.00	
		102	5510	19.07	21.00	
		110	5550	19.01	21.00	
	802.11ax-HE40 MCS0	126	5630	19.01	21.00	100.00
		134	5670	19.16	21.00	
		142	5710	19.15	21.00	
		106	5530	19.12	21.00	
		122	5610	19.15	21.00	
		138	5690	19.09	21.00	
802.11ax-HE160 MCS0	114	5570	20.49	21.00	100.00	



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.

RF exposure position – Ant1										Aperture 00										Aperture 01										Aperture 02										Aperture 03									
										Average Value of Time Sweep (W/kg)										Average Value of Time Sweep (W/kg)										Average Value of Time Sweep (W/kg)										Average Value of Time Sweep (W/kg)									
W90W_Ant 1 Head	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	0	20	40	60	80	100	120	140	0	20	40	60	80	100	120	140	0	20	40	60	80	100	120	140	0	20	40	60	80	100	120	140							
	WCDMA-V	RNC 12.2kbps	Full Power	4033	848.0	N/A	N/A	Right Cheek	Open	0.285	0	0	0	0	0	0	0	0	0	0.046	0.050	0.100	0.080	0.164	0	0.100	0.094	0.168	0.086	0.037	0.040	0.040	0.030	0.070	0	0.080	0.037	0.16	0.100	0.037	0	0.11							
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	1	21	41	61	81	101	121	141	1	21	41	61	81	101	121	141	1	21	41	61	81	101	121	141	1	21	41	61	81	101	121	141							
	CDMA2000 1X	RC1-SGSS	Full Power	777	848.31	N/A	N/A	Right Cheek	Open	0.171	0	0	0	0	0	0	0	0	0	0.058	0.100	0.104	0.057	0.047	0.136	0.056	0.162	0.116	0.111	0.116	0	0.104	0.054	0	0.054	0.068	0.162	0.115	0.081	0.058	0.133								
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	2	22	42	62	82	102	122	142	2	22	42	62	82	102	122	142	2	22	42	62	82	102	122	142	2	22	42	62	82	102	122	142							
	CDMA2000 1X	RC1-SGSS	Full Power	560	830.0	N/A	N/A	Right Cheek	Open	0.16	0	0	0	0	0	0	0	0	0.094	0	0.046	0.056	0.177	0.106	0.100	0.100	0.050	0.064	0.050	0.094	0	0.040	0	0	0.068	0.056	0.167	0.100	0.104	0.050	0.100								
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	3	23	43	63	83	103	123	143	3	23	43	63	83	103	123	143	3	23	43	63	83	103	123	143	3	23	43	63	83	103	123	143							
	LTE Band 71	20M-QPSK	Full Power	13330	680	1	0	Right Cheek	Open	0.106	0	0	0	0	0	0.068	0	0	0	0	0.101	0.048	0	0	0	0.080	0	0	0	0	0	0	0	0	0	0.100	0.048	0	0	0	0.056	0							
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	4	24	44	64	84	104	124	144	4	24	44	64	84	104	124	144	4	24	44	64	84	104	124	144	4	24	44	64	84	104	124	144							
	LTE Band 12	10M-QPSK	Full Power	23805	707.0	1	40	Right Cheek	Open	0.166	0	0	0	0	0.040	0	0	0	0	0	0.111	0.107	0	0.080	0	0.047	0	0	0	0	0	0	0	0	0	0.108	0.100	0	0.080	0	0.088	0							
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	5	25	45	65	85	105	125	145	5	25	45	65	85	105	125	145	5	25	45	65	85	105	125	145	5	25	45	65	85	105	125	145							
	LTE Band 13	10M-QPSK	Full Power	23036	780	1	25	Right Cheek	Open	0.17	0	0	0	0	0	0	0	0	0	0.110	0.088	0.100	0.081	0.108	0.050	0	0.081	0	0	0	0	0	0	0	0.050	0	0.140	0.138	0.087	0.104	0.111	0.050	0						
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	6	26	46	66	86	106	126	146	6	26	46	66	86	106	126	146	6	26	46	66	86	106	126	146	6	26	46	66	86	106	126	146							
	LTE Band 5	10M-QPSK	Full Power	20005	830.0	1	40	Right Cheek	Open	0.200	0	0	0	0	0	0.050	0	0	0	0	0.104	0.087	0.161	0.080	0.160	0.160	0	0.164	0.084	0.078	0	0.100	0.048	0	0.050	0.048	0.100	0.100	0.200	0.118	0.160	0.108	0						
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	7	27	47	67	87	107	127	147	7	27	47	67	87	107	127	147	7	27	47	67	87	107	127	147	7	27	47	67	87	107	127	147							
	LTE Band 26	10M-QPSK	Full Power	28010	830.0	1	0	Right Cheek	Open	0.168	0	0	0	0	0	0	0	0	0	0.100	0.110	0.168	0.088	0.160	0.164	0	0.114	0	0.07	0	0.040	0	0	0.058	0.05	0.088	0.140	0.167	0.108	0.161	0.120	0							
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	8	28	48	68	88	108	128	148	8	28	48	68	88	108	128	148	8	28	48	68	88	108	128	148	8	28	48	68	88	108	128	148							
	N71_Ant1	20M-BPSK	Full Power	138100	680.0	50	20	Right Cheek	Open	0.085	0	0	0	0	0.080	0	0	0	0	0.045	0	0.050	0	0.051	0	0	0	0	0	0	0	0	0	0	0	0.048	0	0	0.048	0	0	0	0						
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	9	29	49	69	89	109	129	149	9	29	49	69	89	109	129	149	9	29	49	69	89	109	129	149	9	29	49	69	89	109	129	149							
	N0_Ant1	20M-BPSK	Full Power	167300	830.0	1	1	Right Cheek	Open	0.151	0	0	0	0	0	0	0	0	0	0	0.030	0	0	0.039	0	0	0	0	0	0	0	0	0	0	0	0.054	0.030	0.080	0.030	0.040	0	0							
W90W_Ant 1 Body	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	10	30	50	70	90	110	130	150	7	10	30	50	70	90	110	130	7	10	30	50	70	90	110	130	7	10	30	50	70	90	110	130	7						
	WCDMA-V	RNC 12.2kbps	Full Power	4102	830.0	N/A	N/A	Right Side	Open	0.034	0	0	0	0	0	0	0	0	0.068	0.040	0.200	0.340	0.264	0	0.17	0.080	0.140	0.081	0.264	0.118	0.106	0.097	0.408	0.481	0.148	0.321	0.348	0.380	0.300	0	0.080	0.08							
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	11	31	51	71	91	111	131	151	8	11	31	51	71	91	111	131	8	11	31	51	71	91	111	131	8	11	31	51	71	91	111	131	8						
	CDMA2000 1X	RTAP 13.8kbps	Full Power	777	848.31	N/A	N/A	Right Side	Open	0.070	0	0	0	0	0	0	0	0	0	0.066	0.200	0.258	0.30	0.348	0	0.084	0.11	0.264	0.114	0.360	0.194	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100							
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	12	32	52	72	92	112	132	152	9	12	32	52	72	92	112	132	9	12	32	52	72	92	112	132	9	12	32	52	72	92	112	132	9						
	CDMA2000 1X	RTAP 13.8kbps	Full Power	884	820.1	N/A	N/A	Right Side	Open	0.401	0	0	0	0	0	0	0	0	0	0.108	0.31	0.338	0.380	0	0	0.11	0.076	0.171	0.076	0.16	0.066	0.108	0.188	0.288	0.38	0.248	0.331	0.387	0.271	0.080	0	0.108	0.107						
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	13	33	53	73	93	113	133	153	10	13	33	53	73	93	113	133	10	13	33	53	73	93	113	133	10	13	33	53	73	93	113	133	10						
	LTE Band 71	20M-QPSK	Full Power	13330	680	1	0	Right Side	Open	0.364	0.164	0.140	0.210	0.110	0	0	0.088	0.06	0.146	0.268	0.164	0.048	0.240	0.100	0.088	0.101	0	0	0	0	0	0	0	0	0.107	0.064	0.080	0	0.201	0	0.108	0.080							
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	14	34	54	74	94	114	134	154	11	14	34	54	74	94	114	134	11	14	34	54	74	94	114	134	11	14	34	54	74	94	114	134	11						
	LTE Band 12	10M-QPSK	Full Power	23805	707.0	25	25	Right Side	Open	0.279	0.076	0.164	0	0	0	0	0.080	0.030	0.200	0.070	0.108	0	0.108	0	0.061	0.208	0	0	0	0	0	0	0	0	0.087	0	0.148	0.058	0.140	0	0.16	0	0.081	0.101					
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	15	35	55	75	95	115	135	155	12	15	35	55	75	95	115	135	12	15	35	55	75	95	115	135	12	15	35	55	75	95	115	135	12						
	LTE Band 10	10M-QPSK	Full Power	23805	780	1	25	Right Side	Open	0.047	0	0.050	0	0	0	0	0.044	0	0.067	0.100	0.100	0	0.11	0	0.146	0.20	0.080	0	0.076	0.080	0.114	0.108	0	0.040	0.20	0.104	0.100	0	0.104	0.060	0.116	0.211							
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other	Test Position	Spacing	Measured 1g SAR (W/kg)	16	36	56	76	96	116	136	156	13	16	36	56	76	96	116	136	13	16	36	56	76	96	116	136	13	16	36	56	76	96	116	136	13						
	LTE Band 5	10M-QPSK	Full Power	20005	830.0	1	40	Right Side	Open	0.404	0	0	0.038	0	0	0	0	0	0	0.110	0	0.101	0.050	0.110	0.110	0.087	0.11	0.348	0.208	0.388	0.388	0.388	0.388	0.207	0.056	0.264	0.256	0	0.147	0.065	0.154	0.101	0.175	0.161					
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sss	RS Other																																											

Aperture 04														Aperture 06														Aperture 08														Aperture 07														Aperture 09														Aperture 05													
Average Value of Time Sweep (WHz)														Average Value of Time Sweep (WHz)														Average Value of Time Sweep (WHz)														Average Value of Time Sweep (WHz)														Average Value of Time Sweep (WHz)														Average Value of Time Sweep (WHz)													
0	20	40	60	80	100	120	140	0	20	40	60	80	100	120	140	0	20	40	60	80	100	120	140	0	20	40	60	80	100	120	140	0	20	40	60	80	100	120	140	0	20	40	60	80	100	120	140																																				
0	0.002	0.003	0.045	0.1	0.217	0	0.107	0	0	0.05	0.109	0.002	0.001	0	0.006	0	0.005	0.005	0.104	0.101	0.201	0	0.112	0	0.003	0.002	0.15	0.008	0.012	0	0.11	0	0.005	0.006	0.101	0.101	0.208	0	0.11	0	0.003	0.06	0.17	0.105	0.24	0	0.016																																				
1	21	41	61	81	101	121	141	1	21	41	61	81	101	121	141	1	21	41	61	81	101	121	141	1	21	41	61	81	101	121	141	1	21	41	61	81	101	121	141	1	21	41	61	81	101	121	141																																				
0	0.006	0.004	0.048	0.112	0.075	0.002	0.008	0	0	0.006	0.116	0.001	0.003	0	0.106	0	0.002	0.008	0.102	0.112	0.004	0.006	0.106	0	0.004	0.008	0.140	0.107	0.008	0.008	0.106	0	0.001	0.006	0.005	0.114	0.001	0.002	0.106	0	0.005	0.007	0.106	0.101	0.001	0.007																																					
2	22	42	62	82	102	122	142	2	22	42	62	82	102	122	142	2	22	42	62	82	102	122	142	2	22	42	62	82	102	122	142	2	22	42	62	82	102	122	142	2	22	42	62	82	102	122	142																																				
0	0.008	0.004	0.145	0.123	0.137	0.004	0.005	0	0.046	0.007	0.101	0.009	0.108	0.044	0.008	0	0.002	0.008	0.108	0.108	0.107	0.008	0.001	0	0.006	0.003	0.108	0.118	0.149	0.003	0.005	0	0.001	0.006	0.106	0.127	0.104	0.007	0.002	0	0.07	0.007	0.138	0.138	0.106	0.002	0.1																																				
3	23	43	63	83	103	123	143	3	23	43	63	83	103	123	143	3	23	43	63	83	103	123	143	3	23	43	63	83	103	123	143	3	23	43	63	83	103	123	143	3	23	43	63	83	103	123	143																																				
0	0.114	0.002	0	0	0	0.074	0	0	0.118	0.047	0	0	0	0.003	0	0	0.116	0.005	0	0	0	0.006	0	0	0.102	0.046	0	0	0	0.007	0	0	0.121	0.046	0	0	0	0.006	0	0	0.108	0.001	0	0	0	0.003	0																																				
4	24	44	64	84	104	124	1	4	24	44	64	84	104	124	1	4	24	44	64	84	104	124	1	4	24	44	64	84	104	124	1	4	24	44	64	84	104	124	1	4	24	44	64	84	104	124	1																																				
0	0.114	0.105	0	0.07	0	0.003	0	0	0.103	0.102	0	0.003	0	0.044	0	0	0.117	0.105	0	0.006	0	0.007	0	0	0.112	0.105	0	0.07	0	0.002	0	0	0.110	0.107	0	0.004	0	0.006	0	0	0.103	0.114	0	0.008	0	0.005	0																																				
5	25	45	65	85	105	125	2	5	25	45	65	85	105	125	2	5	25	45	65	85	105	125	2	5	25	45	65	85	105	125	2	5	25	45	65	85	105	125	2	5	25	45	65	85	105	125	2																																				
0	0.101	0.115	0.001	0.102	0.101	0.002	0	0	0.108	0.07	0.105	0.075	0.105	0.001	0	0	0.106	0.102	0.007	0.102	0.103	0.002	0	0	0.108	0.100	0.104	0.002	0.101	0.002	0	0	0.106	0.108	0.009	0.101	0.100	0.006	0	0	0.101	0.108	0.004	0.116	0.110	0.003	0																																				
6	26	46	66	86	106	126	3	6	26	46	66	86	106	126	3	6	26	46	66	86	106	126	3	6	26	46	66	86	106	126	3	6	26	46	66	86	106	126	3	6	26	46	66	86	106	126	3																																				
0	0.106	0.08	0.211	0.108	0.2	0.148	0	0	0.111	0.008	0.15	0.086	0.179	0.16	0	0	0.114	0.071	0.162	0.088	0.163	0.116	0	0	0.103	0.084	0.162	0.001	0.105	0.117	0	0	0.110	0.088	0.16	0.089	0.162	0.121	0	0	0.103	0.078	0.202	0.086	0.163	0.109	0																																				
7	27	47	67	87	107	127	4	7	27	47	67	87	107	127	4	7	27	47	67	87	107	127	4	7	27	47	67	87	107	127	4	7	27	47	67	87	107	127	4	7	27	47	67	87	107	127	4																																				
0.046	0.11	0.108	0.168	0.163	0.160	0.101	0	0	0.081	0.101	0.176	0.109	0.107	0.160	0	0.091	0.114	0.108	0.165	0.167	0.101	0.146	0	0.044	0.100	0.103	0.160	0.1	0.102	0.103	0	0.047	0.111	0.110	0.168	0.122	0.100	0.110	0	0	0.058	0.094	0.09	0	0.007	0.049	0																																				
8	28	48	68	88	108	128	5	8	28	48	68	88	108	128	5	8	28	48	68	88	108	128	5	8	28	48	68	88	108	128	5	8	28	48	68	88	108	128	5	8	28	48	68	88	108	128	5																																				
0.046	0	0.046	0	0.003	0	0	0	0	0	0.007	0	0.05	0	0	0	0.040	0	0	0.088	0	0	0	0.045	0	0.040	0	0.00	0	0	0	0.048	0	0.046	0	0.001	0	0	0	0.044	0	0.005	0	0.046	0	0	0																																					
9	29	49	69	89	109	129	6	9	29	49	69	89	109	129	6	9	29	49	69	89	109	129	6	9	29	49	69	89	109	129	6	9	29	49	69	89	109	129	6	9	29	49	69	89	109	129	6																																				
0	0	0.047	0.088	0.004	0	0	0	0	0	0	0	0.002	0	0	0	0	0	0	0.008	0	0	0	0	0	0.140	0	0.006	0	0	0	0	0	0.102	0	0.007	0	0	0	0	0	0.008	0	0.005	0	0	0																																					
10	30	50	70	90	110	130	7	10	30	50	70	90	110	130	7	10	30	50	70	90	110	130	7	10	30	50	70	90	110	130	7	10	30	50	70	90	110	130	7	10	30	50	70	90	110	130	7																																				
0.115	0.094	0.207	0.37	0.333	0	0.08	0.07	0.088	0.165	0.214	0.205	0.279	0	0.081	0.094	0.108	0.333	0.308	0.308	0.348	0	0.087	0.073	0.163	0.271	0.094	0.306	0.335	0	0.075	0.068	0.123	0.311	0.321	0.382	0.345	0	0.094	0.074	0.161	0.333	0.361	0.383	0.337	0	0.086	0.08																																				
11	31	51	71	91	111	131	8	11	31	51	71	91	111	131	8	11	31	51	71	91	111	131	8	11	31	51	71	91	111	131	8	11	31	51	71	91	111	131	8	11	31	51	71	91	111	131	8																																				
0.122	0.275	0.305	0.353	0.348	0	0.086	0.105	0.078	0.164	0.225	0.269	0.289	0	0.076	0.104	0.131	0.332	0.325	0.332	0.388	0	0.101	0.13	0.107	0.253	0.292	0.305	0.305	0	0.066	0.124	0.138	0.296	0.322	0.347	0.335	0	0.088	0.126	0.162	0.363	0.381	0.388	0.269	0	0.11	0.14																																				
12	32	52	72	92	112	132	9	12	32	52	72	92	112	132	9	12	32	52	72	92	112	132	9	12	32	52	72	92	112	132	9	12	32	52	72	92	112	132	9	12	32	52	72	92	112	132	9																																				
0.2	0.330	0.361	0.29	0.042	0	0.118	0.102	0.109	0.268	0.294	0.229	0	0	0.103	0.08	0.04	0.394	0.384	0.305	0.00	0	0.104	0.119	0.19	0.319	0.301	0.298	0.04	0	0.117	0.085	0.218	0.345	0.379	0.293	0.045	0	0.103	0.115	0.209	0.341	0.388	0.277	0.004	0	0.10	0.144																																				
13	33	53	73	93	113	133	10	13	33	53	73	93	113	133	10	13	33	53	73	93	113	133	10	13	33	53	73	93	113	133	10	13	33	53	73	93	113	133	10	13	33	53	73	93	113	133	10																																				
0.202	0.072	0.003	0.043	0.243	0	0.081	0.104	0.201	0.080	0.100	0.040	0.217	0	0.117	0.106	0.116	0.086	0.104	0.094	0.081	0	0.201	0.134	0.108	0.089	0.081	0.040	0.100	0	0	0.089	0.087	0	0.123	0.108	0.078	0.023	0	0.112	0.106	0	0.11	0.030	0.106	0.020	0.003	0.104																																				
14	34	54	74	94	114	134	11	14	34	54	74	94	114	134	11	14	34	54	74	94	114	134	11	14	34	54	74	94	114	134	11	14	34	54	74	94	114	134	11	14	34	54	74	94	114	134	11																																				
0.202	0.084	0.16	0	0.104	0	0.080	0.104	0.203	0.078	0.110	0	0.112	0	0.082	0.208	0.189	0.081	0.179	0	0.17	0	0.080	0.11	0.204	0.081	0.100	0	0.148	0	0.082	0.161	0.188	0.082	0.17	0	0.166	0	0.042	0.103	0.080	0.003	0.178	0	0.215	0	0.071	0.175																																				
15	35	55	75	95	115	135	12	15	35	55	75	95	115	135	12	15	35	55	75	95	115	135	12	15	35	55	75	95	115	135	12	15	35	55	75	95	115	135	12	15	35	55	75	95	115	135	12																																				
0.205	0.15	0.143	0	0.102	0.042	0.15	0.279	0.201	0.169	0.1	0	0.091	0	0.101	0.195	0.315	0.165	0.161	0.108	0.040	0.104	0.006	0.207	0.148	0.100	0	0.191	0	0.109	0.283	0.316	0.140	0.107	0	0.125	0.040																																															

[illegible]

April 18										April 19										April 20										April 21										April 22										April 23																																																	
Average Value of This Score (Bkg)										Average Value of This Score (Bkg)										Average Value of This Score (Bkg)										Average Value of This Score (Bkg)										Average Value of This Score (Bkg)										Average Value of This Score (Bkg)																																																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53</																																															

RF exposure position – ANTO											Aperture 90					
											Average Value of Time Sweep (W/kg)					
WWAN_Ant0 Head	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	0	30	60	90	120	
	WCDMA V	RMC 12.2Kbps	Reduced Power Level 1	4182	836.4	N/A	N/A	Right Cheek	0mm	0.966	0	0.152	0.279	0.754	0	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	31	61	91	121	
	CDMA2000 BC3	RC3-SO55	Reduced Power Level 1	777	848.31	N/A	N/A	Right Cheek	0mm	0.926	0.066	0.171	0.419	0	0	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	32	62	92	122	
	CDMA2000 BC10	RC3-SO55	Full Power	476	817.9	N/A	N/A	Right Cheek	0mm	0.999	0.094	0.28	0.562	0.967	0.048	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	33	63	93	123	
	LTE Band 71	20M-QPSK	Full Power	133322	683	1	0	Right Cheek	0mm	0.786	0.134	0.426	0.838	0.323	0.044	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	34	64	94	124	
	LTE Band 12	15M-QPSK	Full Power	23095	707.5	1	49	Right Cheek	0mm	0.862	0.141	0.525	0.996	0.398	0.073	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	35	65	95	125	
	LTE Band 13	15M-QPSK	Full Power	23230	762	1	25	Right Cheek	0mm	0.611	0.228	0.558	0.226	0.155	0.17	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	36	66	96	126	
	LTE Band 5	15M-QPSK	Reduced Power Level 1	20525	836.5	25	25	Right Cheek	0mm	0.917	0.202	0.632	0.148	0.257	0.87	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	37	67	97	127	
	LTE Band 26	15M-QPSK	Reduced Power Level 1	26965	841.5	36	20	Right Cheek	0mm	0.899	0.369	0	0.185	0.396	0	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	8	38	68	98	128	
	LTE Band 66_Ant0	20M-QPSK	Reduced Power Level 1/2/3	132572	1770	1	0	Right Tilted	0mm	0.783	0.383	0.397	0.369	0.269	0.27	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	9	39	69	99	129	
	LTE Band 7_Ant0	20M-QPSK	Reduced Power Level 1/2/3	20850	2510	50	24	Right Tilted	0mm	0.768	0.366	0.543	0.561	0.553	0.577	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	10	40	70	100	130	
	N71_Ant0	20M-BPSK	Full Power	136100	680.5	1	1	Right Cheek	0mm	0.572	0	0	0	0	0	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	11	41	71	101	131	
	N8_Ant0	20M-BPSK	Full Power	167300	836.5	1	1	Right Cheek	0mm	0.671	0.135	0.104	0.221	0	0.062	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	12	42	72	102	132	
	N88_Ant0	20M-BPSK	Reduced Power Level 1/2/3	354000	1770	1	1	Right Tilted	0mm	0.873	0.332	0.286	0.214	0.263	0.155	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	13	43	73	103	133	
	N41_Ant0	100M-BPSK	Reduced Power Level 1/2/3	528000	2640	1	1	Right Tilted	0mm	0.866	0.465	0.507	0.301	0.486	0.479	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	14	44	74	104	134	
	N41(9PUE)_Ant0	100M-BPSK	Reduced Power Level 1/2/3	528000	2640	1	1	Right Tilted	0mm	0.866	0.491	0.517	0.486	0.511	0.483	
WWAN_Ant0 Body	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	15	45	75	105	135	
	WCDMA V	RMC 12.2Kbps	Full Power	4233	846.6	N/A	N/A	Back	10mm	0.547	0.113	0	0	0.102	0	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	16	46	76	106	136	
	CDMA2000 BC3	RTAP 153.6Kbps	Full Power	777	848.31	N/A	N/A	Back	10mm	0.427	0.117	0	0	0.163	0	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	17	47	77	107	137	
	CDMA2000 BC10	RTAP 153.6Kbps	Full Power	684	823.1	N/A	N/A	Back	10mm	0.307	0.121	0	0	0.161	0	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	18	48	78	108	138	
	LTE Band 71	20M-QPSK	Full Power	133322	683	1	0	Back	10mm	0.232	0.089	0	0	0.111	0	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	19	49	79	109	139	
	LTE Band 12	15M-QPSK	Full Power	23095	707.5	1	49	Back	10mm	0.307	0.072	0.063	0.121	0	0.066	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	20	50	80	110	140	
	LTE Band 13	15M-QPSK	Full Power	23230	762	1	25	Back	10mm	0.213	0.094	0.056	0.113	0	0.054	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	21	51	81	111	141	
	LTE Band 5	15M-QPSK	Full Power	20525	836.5	1	49	Back	10mm	0.511	0.059	0.123	0	0	0.087	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	22	52	82	112	142	
	LTE Band 26	15M-QPSK	Full Power	26965	841.5	1	0	Back	10mm	0.362	0.083	0.165	0	0	0.117	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	23	53	83	113	143	
	LTE Band 66_Ant0	20M-QPSK	Hotspot on	132572	1770	50	24	Top Side	10mm	0.621	0.366	0.285	0.31	0.2	0.136	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	24	54	84	114	0	
	LTE Band 7_Ant0	20M-QPSK	Hotspot on	20850	2510	50	24	Top Side	10mm	0.674	0.519	0.534	0.493	0.528	0.196	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	25	55	85	115	1	
	N71_Ant0	20M-BPSK	Full Power	136100	680.5	1	1	Back	10mm	0.194	0	0	0	0	0	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	26	56	86	116	2	
	N8_Ant0	20M-BPSK	Full Power	167300	836.5	1	1	Back	10mm	0.203	0.096	0	0	0	0	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	27	57	87	117	3	
	N88_Ant0	20M-BPSK	Hotspot on	349000	1745	50	26	Top Side	10mm	0.661	0.443	0.407	0.424	0.376	0.289	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	28	58	88	118	4	
	N41_Ant0	100M-BPSK	Hotspot on	528000	2640	135	69	Top Side	10mm	0.636	0.16	0.354	0.391	0.23	0.342	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	29	59	89	119	5	
	N41(9PUE)_Ant0	100M-BPSK	Hotspot on	528000	2640	135	69	Top Side	10mm	0.636	0.361	0.36	0.401	0.365	0.37	

RF exposure position – ANT2											Aperture 00					
											Average Value of Time Sweep (W/kg)					
WWAN_Ant 2 Head	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	0	27	55	83	111	139
	WCDMA IV_UAT	RMC 12.2Kbps	Reduced Power Level 1/2/3	1513	1732.6	N/A	N/A	Right Cheek	0mm	0.871	0.519	0.207	0.797	0.252	0.227	0.201
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	28	56	84	112	140
	WCDMA II_UAT	RMC 12.2Kbps	Reduced Power Level 1/2/3	9262	1852.4	N/A	N/A	Right Cheek	0mm	0.844	0.35	0.607	0.645	0.285	0.354	0.288
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	29	57	85	113	141
	CDMA2000 BC1_UAT	RC3 SC05	Reduced Power Level 1/2/3	1175	1908.75	N/A	N/A	Right Cheek	0mm	0.86	0.317	0.782	0.488	0.375	0.466	0.395
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	30	58	86	114	142
	LTE Band 6E_UAT	20M-QPSK	Reduced Power Level 1/2/3	132572	1770	50	24	Right Cheek	0mm	0.805	0.502	0.327	0.743	0.171	0.238	0.148
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	31	59	87	115	143
	LTE Band 25_UAT	20M-QPSK	Reduced Power Level 1/2/3	26590	1905	50	24	Right Cheek	0mm	0.874	0.404	0.823	0.527	0.39	0.528	0.395
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	32	60	88	116	0
	LTE Band 30_UAT	10M-QPSK	Reduced Power Level 1/2/3	27710	2310	1	25	Right Cheek	0mm	0.989	0.671	0.613	0.623	0.748	0.756	0.233
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	33	61	89	117	1
	LTE Band 7_UAT	20M-QPSK	Reduced Power Level 1/2/3	21100	2535	50	24	Right Cheek	0mm	0.891	0.607	0.57	0.573	0.466	0.613	0.737
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	34	62	90	118	2
	LTE Band 41_UAT	20M-QPSK	Reduced Power Level 1/2/3	41055	2636.5	50	24	Right Cheek	0mm	0.942	0.496	0.467	0.49	0.743	0.434	0.695
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	8	35	63	91	119	3
	LTE Band 41(HFUE)_UAT	20M-QPSK	Reduced Power Level 1/2/3	41490	2680	50	24	Right Cheek	0mm	0.947	0.172	0.162	0.192	0.199	0.131	0.21
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	9	36	64	92	120	4
	NB6_Ant2	20M-BPSK	Reduced Power Level 1/2/3	354000	1770	50	28	Right Cheek	0mm	0.854	0.819	0.288	0.271	0.214	0.203	0.458
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	10	37	65	93	121	5
	N25_Ant2	20M-BPSK	Reduced Power Level 1/2/3	381000	1905	50	28	Right Cheek	0mm	0.932	0.515	0.192	0.8	0.399	0.479	0.442
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	11	38	66	94	122	6
	N7_Ant2	20M-BPSK	Reduced Power Level 1/2/3	502000	2510	50	28	Right Cheek	0mm	0.988	0.681	0.902	0.715	0.584	0.556	0.733
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	12	39	67	95	123	7
	N41_Ant2	100M-BPSK	Reduced Power Level 1/2/3	528000	2640	1	1	Right Cheek	0mm	0.745	0.417	0.545	0.435	0.318	0.345	0.414
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	13	40	68	96	124	8
	N41(HFUE)_Ant2	100M-BPSK	Reduced Power Level 1/2/3	528000	2640	135	69	Right Cheek	0mm	0.935	0.498	0.509	0.387	0.287	0.344	0.44
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	14	41	69	97	125	9
	WCDMA IV_UAT	RMC 12.2Kbps	Hotspot on	1413	1732.6	N/A	N/A	Left Side	10mm	0.518	0.3	0.263	0.185	0.084	0.097	0.342
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	15	42	70	98	126	10
	WCDMA II_UAT	RMC 12.2Kbps	Hotspot on	9538	1907.6	N/A	N/A	Left Side	10mm	0.477	0.276	0.117	0.321	0.173	0.247	0.249
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	16	43	71	99	127	11
	CDMA2000 BC1_UAT	RTAP 153.6Kbps	Hotspot on	25	1851.25	N/A	N/A	Left Side	10mm	0.659	0.316	0.134	0.387	0.202	0.253	0.287
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	17	44	72	100	128	12
	LTE Band 6E_UAT	20M-QPSK	Hotspot on	132572	1770	1	0	Left Side	10mm	0.595	0.258	0.235	0.105	0.198	0.175	0.318
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	18	45	73	101	129	13
	LTE Band 25_UAT	20M-QPSK	Hotspot on	26140	1860	1	49	Left Side	10mm	0.552	0.354	0.268	0.152	0.164	0.188	0.358
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	19	46	74	102	130	14
	LTE Band 30_UAT	10M-QPSK	Hotspot on	27710	2310	1	25	Left Side	10mm	0.744	0.429	0.34	0.728	0.66	0.662	0.698
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	20	47	75	103	131	15	
LTE Band 7_UAT	20M-QPSK	Hotspot on	20850	2510	50	24	Left Side	10mm	0.946	0.514	0.482	0.445	0.409	0.409	0.52	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	21	48	76	104	132	16	
LTE Band 41_UAT	20M-QPSK	Hotspot on	41055	2636.5	50	24	Left Side	10mm	0.986	0.536	0.415	0.399	0.389	0.375	0.412	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	22	49	77	105	133	17	
LTE Band 41(HFUE)_UAT	20M-QPSK	Hotspot on	41055	2636.5	50	24	Left Side	10mm	0.987	0.353	0.289	0.26	0.255	0.237	0.371	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	23	50	78	106	134	18	
NB6_Ant2	20M-BPSK	Hotspot on	354000	1770	50	28	Left Side	10mm	0.961	0.664	0.719	0.21	0.153	0.223	0.844	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	24	51	79	107	135	19	
N25_Ant2	20M-BPSK	Hotspot on	381000	1905	50	28	Left Side	10mm	0.929	0.837	0.444	0.483	0.352	0.727	0.798	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	25	52	80	108	136	20	
N7_Ant2	20M-BPSK	Hotspot on	512000	2560	50	28	Left Side	10mm	0.851	0.771	0.525	0.558	0.805	0.769	0.813	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	26	53	81	109	137	21	
N41_Ant2	100M-BPSK	Hotspot on	528000	2640	135	69	Left Side	10mm	0.798	0.52	0.417	0.5	0.69	0.555	0.615	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	27	54	82	110	138	22	
N41(HFUE)_Ant2	100M-BPSK	Hotspot on	528000	2640	135	69	Left Side	10mm	0.798	0.543	0.407	0.476	0.614	0.513	0.573	
WWAN_Ant 2 Body	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	14	41	69	97	125	9
	WCDMA IV_UAT	RMC 12.2Kbps	Hotspot on	1413	1732.6	N/A	N/A	Left Side	10mm	0.518	0.3	0.263	0.185	0.084	0.097	0.342
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	15	42	70	98	126	10
	WCDMA II_UAT	RMC 12.2Kbps	Hotspot on	9538	1907.6	N/A	N/A	Left Side	10mm	0.477	0.276	0.117	0.321	0.173	0.247	0.249
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	16	43	71	99	127	11
	CDMA2000 BC1_UAT	RTAP 153.6Kbps	Hotspot on	25	1851.25	N/A	N/A	Left Side	10mm	0.659	0.316	0.134	0.387	0.202	0.253	0.287
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	17	44	72	100	128	12
	LTE Band 6E_UAT	20M-QPSK	Hotspot on	132572	1770	1	0	Left Side	10mm	0.595	0.258	0.235	0.105	0.198	0.175	0.318
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	18	45	73	101	129	13
	LTE Band 25_UAT	20M-QPSK	Hotspot on	26140	1860	1	49	Left Side	10mm	0.552	0.354	0.268	0.152	0.164	0.188	0.358
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	19	46	74	102	130	14
	LTE Band 30_UAT	10M-QPSK	Hotspot on	27710	2310	1	25	Left Side	10mm	0.744	0.429	0.34	0.728	0.66	0.662	0.698
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	20	47	75	103	131	15
	LTE Band 7_UAT	20M-QPSK	Hotspot on	20850	2510	50	24	Left Side	10mm	0.946	0.514	0.482	0.445	0.409	0.409	0.52
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	21	48	76	104	132	16
	LTE Band 41_UAT	20M-QPSK	Hotspot on	41055	2636.5	50	24	Left Side	10mm	0.986	0.536	0.415	0.399	0.389	0.375	0.412
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	22	49	77	105	133	17
	LTE Band 41(HFUE)_UAT	20M-QPSK	Hotspot on	41055	2636.5	50	24	Left Side	10mm	0.987	0.353	0.289	0.26	0.255	0.237	0.371
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	23	50	78	106	134	18
	NB6_Ant2	20M-BPSK	Hotspot on	354000	1770	50	28	Left Side	10mm	0.961	0.664	0.719	0.21	0.153	0.223	0.844
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	24	51	79	107	135	19	
N25_Ant2	20M-BPSK	Hotspot on	381000	1905	50	28	Left Side	10mm	0.929	0.837	0.444	0.483	0.352	0.727	0.798	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	25	52	80	108	136	20	
N7_Ant2	20M-BPSK	Hotspot on	512000	2560	50	28	Left Side	10mm	0.851	0.771	0.525	0.558	0.805	0.769	0.813	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	26	53	81	109	137	21	
N41_Ant2	100M-BPSK	Hotspot on	528000	2640	135	69	Left Side	10mm	0.798	0.52	0.417	0.5	0.69	0.555	0.615	
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	27	54	82	110	138	22	
N41(HFUE)_Ant2	100M-BPSK	Hotspot on	528000	2640	135	69	Left Side	10mm	0.798	0.543	0.407	0.476	0.614	0.513	0.573	

RF exposure position – ANT3											Aperture 00						
											Average Value of Time Sweep (W/kg)						
WWAN_Ant3 Head	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	0	27	55	83	111	139	
	WCDMA IV_LAT	RMC 12.2Kbps	Full Power	1513	1752.6	N/A	N/A	Right Cheek	0mm	0.202	0	0	0.133	0.105	0	0.061	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	28	56	84	112	140	
	WCDMA II_LAT	RMC 12.2Kbps	Full Power	9430	1880	N/A	N/A	Right Cheek	0mm	0.226	0	0.164	0.13	0.105	0.067	0.099	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	29	57	85	113	141	
	CDMA2000 BC1_LAT	RC3 S065	Full Power	1175	1908.75	N/A	N/A	Right Cheek	0mm	0.271	0.056	0.187	0.142	0.118	0.087	0.11	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	30	58	86	114	142	
	LTE Band 96_LAT	20M-QPSK	Full Power	132322	1745	1	0	Right Cheek	0mm	0.183	0	0.055	0.073	0.07	0	0	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	31	59	87	115	143	
	LTE Band 25_LAT	20M-QPSK	Full Power	26590	1905	1	49	Right Cheek	0mm	0.219	0.065	0.175	0.135	0.119	0.09	0.069	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	32	60	88	116	0	
	LTE Band 30_LAT	10M-QPSK	Full Power	27710	2310	1	25	Left Cheek	0mm	0.268	0.217	0.202	0.239	0.263	0.209	0.148	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	33	61	89	117	1	
	LTE Band 7_LAT	20M-QPSK	Full Power	21100	2535	1	99	Left Cheek	0mm	0.367	0.224	0.291	0.262	0.216	0.311	0.289	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	34	62	90	118	2	
	LTE Band 41_LAT	20M-QPSK	Full Power	39790	2510	1	99	Left Cheek	0mm	0.19	0.05	0.042	0.058	0.111	0.072	0.055	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	8	35	63	91	119	3	
	LTE Band 41(HFUE)_LAT	20M-QPSK	Full Power	39750	2506	1	99	Right Cheek	0mm	0.207	0.061	0.056	0.067	0.121	0.088	0.076	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	9	36	64	92	120	4	
	N66_Ant3	20M-BPSK	Full Power	349000	1745	50	28	Right Cheek	0mm	0.131	0.109	0.041	0.058	0.103	0.056	0	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	10	37	65	93	121	5	
	N25_Ant3	20M-BPSK	Full Power	381000	1905	50	28	Right Cheek	0mm	0.244	0.087	0.049	0.151	0.108	0.085	0.056	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	11	38	66	94	122	6	
	N7_Ant3	20M-BPSK	Full Power	502000	2510	1	1	Left Cheek	0mm	0.324	0.313	0.32	0.279	0.316	0.232	0.227	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	12	39	67	95	123	7	
	N41_Ant3	100M-BPSK	Full Power	510000	2550	1	1	Left Cheek	0mm	0.338	0.318	0.297	0.258	0.279	0.199	0.187	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	13	40	68	96	124	8	
	N41(HFUE)_Ant3	100M-BPSK	Full Power	509202	2546.01	1	1	Left Cheek	0mm	0.447	0.419	0.376	0.346	0.355	0.279	0.254	
	WWAN_Ant3 Body	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	14	41	69	97	125	9
		WCDMA IV_LAT	RMC 12.2Kbps	Hotspot on	1513	1752.6	N/A	N/A	Bottom Side	10mm	0.495	0.28	0.192	0.188	0.249	0.11	0.397
		Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	15	42	70	98	126	10
		WCDMA II_LAT	RMC 12.2Kbps	Hotspot on	9538	1907.6	N/A	N/A	Bottom Side	10mm	0.502	0.226	0.239	0.278	0.251	0.247	0.223
Band		Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	16	43	71	99	127	11	
CDMA2000 BC1_LAT		RTAP 153.6Kbps	Hotspot on	1175	1908.75	N/A	N/A	Bottom Side	10mm	0.621	0.253	0.278	0.302	0.289	0.216	0.242	
Band		Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	17	44	72	100	128	12	
LTE Band 96_LAT		20M-QPSK	Hotspot on	132572	1770	50	24	Bottom Side	10mm	0.429	0.223	0.187	0.162	0.232	0.103	0.371	
Band		Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	18	45	73	101	129	13	
LTE Band 25_LAT		20M-QPSK	Hotspot on	26590	1905	1	49	Bottom Side	10mm	0.419	0.202	0.211	0.236	0.224	0.198	0.207	
Band		Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	19	46	74	102	130	14	
LTE Band 30_LAT		10M-QPSK	Hotspot on	27710	2310	50	0	Bottom Side	10mm	0.592	0.326	0.213	0.189	0.202	0.167	0.224	
Band		Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	20	47	75	103	131	15	
LTE Band 7_LAT		20M-QPSK	Hotspot on	21100	2535	50	24	Bottom Side	10mm	0.584	0.423	0.382	0.309	0.271	0.214	0.285	
Band		Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	21	48	76	104	132	16	
LTE Band 41_LAT		20M-QPSK	Hotspot on	40620	2593	50	24	Bottom Side	10mm	0.536	0.299	0.286	0.217	0.219	0.211	0.189	
Band		Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	22	49	77	105	133	17	
LTE Band 41(HFUE)_LAT		20M-QPSK	Hotspot on	40185	2540.5	50	24	Bottom Side	10mm	0.491	0.363	0.243	0.11	0.099	0.08	0.085	
Band		Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	23	50	78	106	134	18	
N66_Ant3		20M-BPSK	Hotspot on	349000	1745	50	28	Bottom Side	10mm	0.4	0.33	0.24	0.165	0.182	0.085	0.228	
Band		Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	24	51	79	107	135	19	
N25_Ant3		20M-BPSK	Hotspot on	381000	1905	50	28	Bottom Side	10mm	0.521	0.326	0.321	0.241	0.231	0.414	0.351	
Band		Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	25	52	80	108	136	20	
N7_Ant3		20M-BPSK	Hotspot on	507000	2535	50	28	Bottom Side	10mm	0.584	0.307	0.304	0.256	0.435	0.321	0.486	
Band		Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	26	53	81	109	137	21	
N41_Ant3		100M-BPSK	Hotspot on	509202	2546.01	135	69	Bottom Side	10mm	0.517	0.198	0.213	0.428	0.323	0.244	0.373	
Band		Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	27	54	82	110	138	22	
N41(HFUE)_Ant3		100M-BPSK	Hotspot on	510000	2550	135	69	Bottom Side	10mm	0.58	0.156	0.368	0.432	0.295	0.223	0.325	