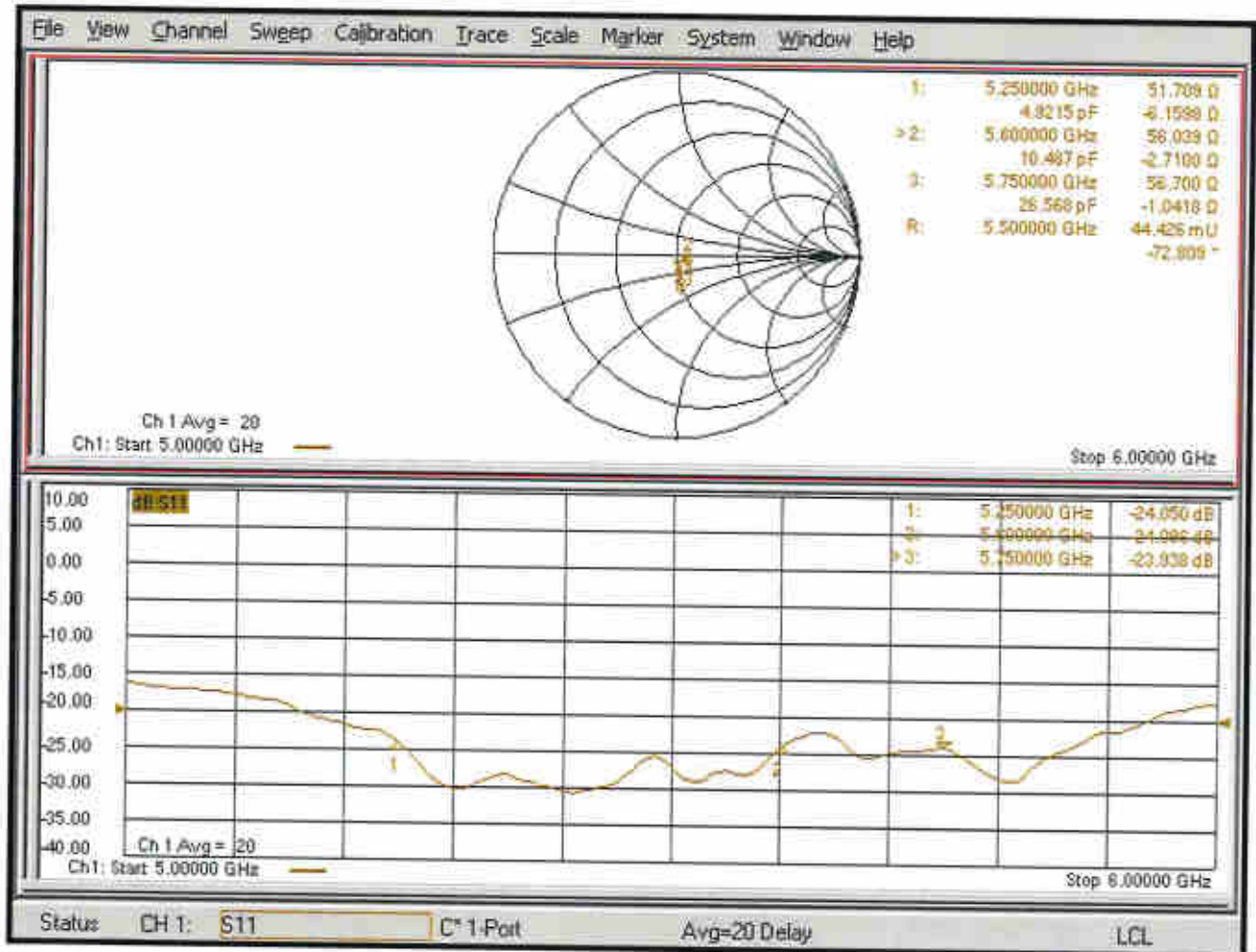


Impedance Measurement Plot for Head TSL



D5GHzV2, Serial No. 1113 Extended Dipole Calibrations

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

D5GHzV2 – serial no. 1113						
5250 Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2019.9.24	-24.05		51.71		-6.16	
2020.9.23	-24.80	-0.03	50.56	1.15	-5.94	-0.22
2021.9.23	-23.93	0.01	51.89	-0.18	-6.28	0.12

D5GHzV2 – serial no. 1113						
5600 Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2019.9.24	-24.09		56.04		-2.71	
2020.9.23	-23.95	0.01	57.70	-1.66	-2.85	0.14
2021.9.23	-24.99	-0.04	56.04	0.01	-2.69	-0.02

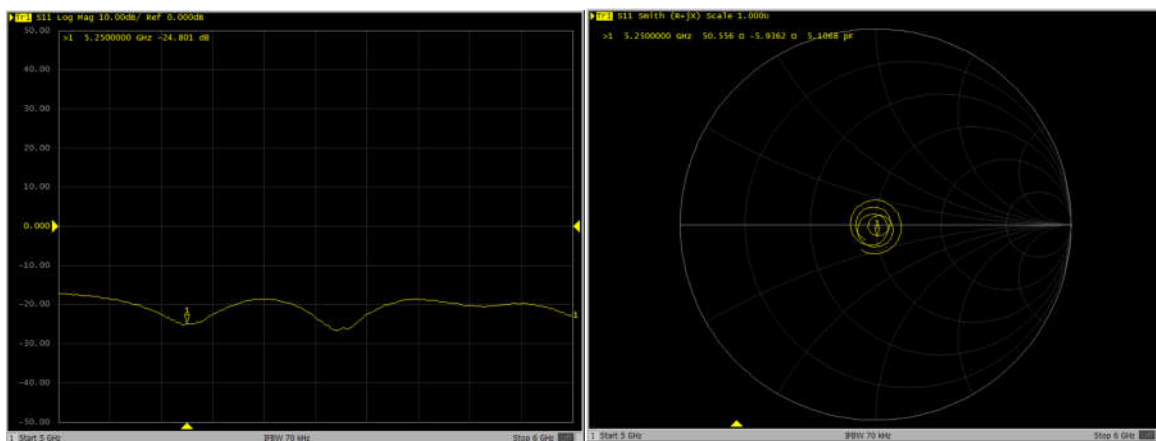
D5GHzV2 – serial no. 1113						
5750 Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2019.9.24	-23.94		56.70		-1.04	
2020.9.23	-21.92	0.08	58.56	-1.86	-1.58	0.54
2021.9.23	-22.90	0.04	57.64	-0.94	-1.04	0.00

<Justification of the extended calibration>

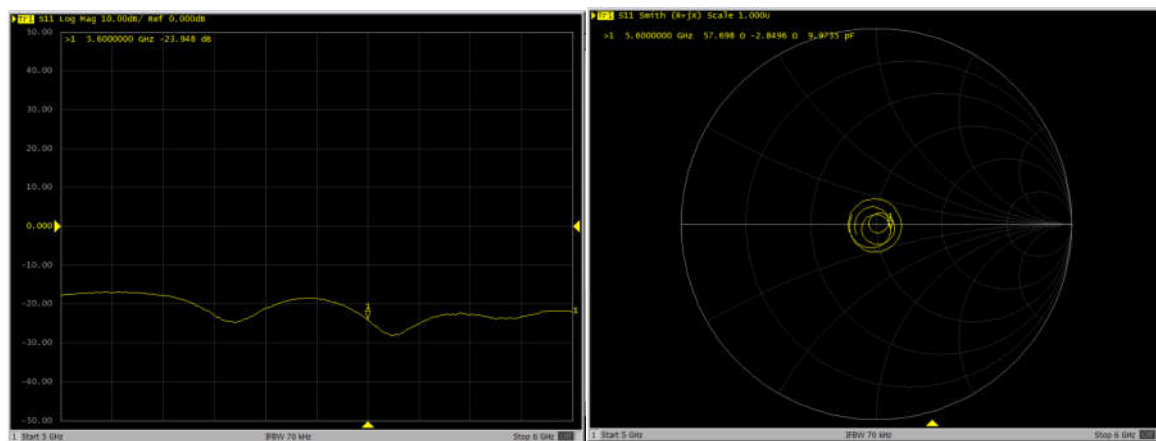
The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

Dipole Verification Data> D5GHzV2, Serial No. 1113

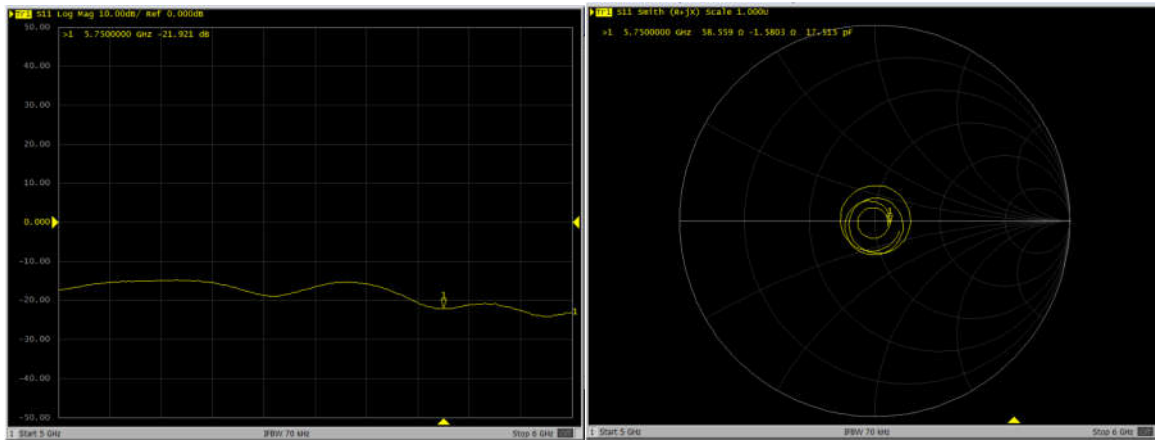
5250MHz – Head—2020. 9. 23



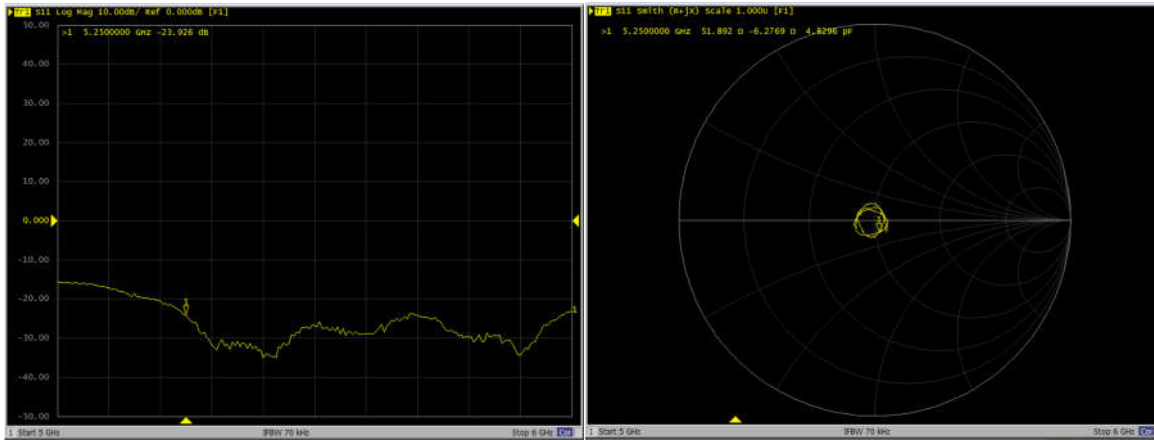
5600MHz – Head—2020. 9. 23



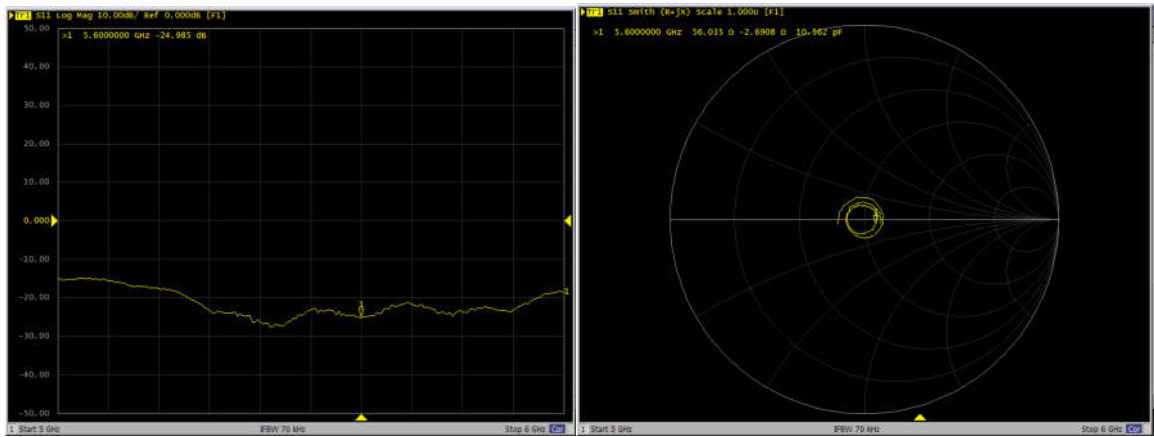
5750MHz – Head-----2020. 9. 23



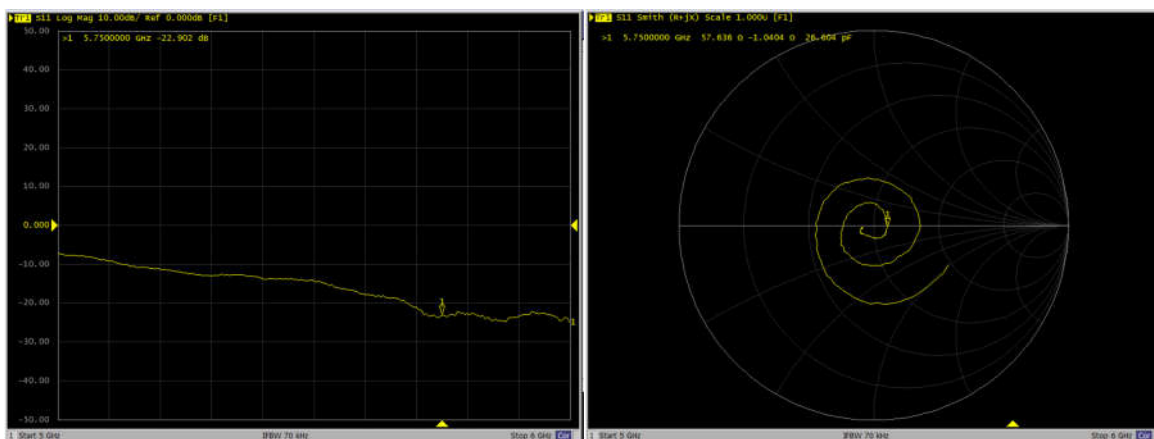
5250MHz – Head—2021. 9. 23



5600MHz – Head—2021. 9. 23



5750MHz – Head—2021. 9. 23





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Client : **Sporton**

Certificate No: Z21-60491

CALIBRATION CERTIFICATE

Object

DAE4 - SN: 715

Calibration Procedure(s)

FF-Z11-002-01

Calibration Procedure for the Data Acquisition Electronics
(DAEx)

Calibration date:

December 29, 2021

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Process Calibrator 753	1971018	15-Jun-21 (CTTL, No.J21X04465)	Jun-22

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

Issued: December 31, 2021

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

Glossary:

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

Methods Applied and Interpretation of Parameters:

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

DC Voltage Measurement

A/D - Converter Resolution nominal

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

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

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

Calibration Factors	X	Y	Z
High Range	405.122 $\pm$ 0.15% (k=2)	404.671 $\pm$ 0.15% (k=2)	404.495 $\pm$ 0.15% (k=2)
Low Range	3.99094 $\pm$ 0.7% (k=2)	3.97897 $\pm$ 0.7% (k=2)	3.97797 $\pm$ 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	330.5° $\pm$ 1 °
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Client

Auden

Certificate No: **Z21-60210**

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN : 3975

Calibration Procedure(s)

FF-Z11-004-02

Calibration Procedures for Dosimetric E-field Probes

Calibration date:

June 07, 2021

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	101919	16-Jun-20(CTTL, No.J20X04344)	Jun-21
Power sensor NRP-Z91	101547	16-Jun-20(CTTL, No.J20X04344)	Jun-21
Power sensor NRP-Z91	101548	16-Jun-20(CTTL, No.J20X04344)	Jun-21
Reference 10dBAttenuator	18N50W-10dB	10-Feb-20(CTTL, No.J20X00525)	Feb-22
Reference 20dBAttenuator	18N50W-20dB	10-Feb-20(CTTL, No.J20X00526)	Feb-22
Reference Probe EX3DV4	SN 3617	27-Jan-21(SPEAG, No.EX3-3617_Jan21)	Jan-22
DAE4	SN 1556	15-Jan-21(SPEAG, No.DAE4-1556_Jan21)	Jan-22
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
SignalGenerator MG3700A	6201052605	23-Jun-20(CTTL, No.J20X04343)	Jun-21
Network Analyzer E5071C	MY46110673	21-Jan-21(CTTL, No.J20X00515)	Jan-22

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

Issued: June 09, 2021

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Glossary:

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

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



DASY/EASY – Parameters of Probe: EX3DV4 – SN:3975

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.41	0.45	0.51	$\pm 10.0\%$
DCP(mV) ^B	105.1	102.2	102.1	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	163.0	$\pm 2.6\%$
		Y	0.0	0.0	1.0		171.0	
		Z	0.0	0.0	1.0		183.8	

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 E^2 -field uncertainty inside TSL (see Page 4).

^B Numerical linearization parameter: uncertainty not required.

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



DASY/EASY – Parameters of Probe: EX3DV4 – SN:3975

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	41.9	0.89	10.04	10.04	10.04	0.40	0.75	± 12.1%
835	41.5	0.90	9.54	9.54	9.54	0.17	1.18	± 12.1%
900	41.5	0.97	9.52	9.52	9.52	0.17	1.14	± 12.1%
1450	40.5	1.20	8.59	8.59	8.59	0.12	1.28	± 12.1%
1750	40.1	1.37	8.38	8.38	8.38	0.28	0.92	± 12.1%
1900	40.0	1.40	7.92	7.92	7.92	0.21	1.15	± 12.1%
2000	40.0	1.40	7.97	7.97	7.97	0.19	1.21	± 12.1%
2300	39.5	1.67	7.84	7.84	7.84	0.65	0.67	± 12.1%
2450	39.2	1.80	7.60	7.60	7.60	0.67	0.67	± 12.1%
2600	39.0	1.96	7.35	7.35	7.35	0.65	0.67	± 12.1%
3300	38.2	2.71	6.88	6.88	6.88	0.44	0.96	± 13.3%
3500	37.9	2.91	6.82	6.82	6.82	0.42	0.95	± 13.3%
3700	37.7	3.12	6.52	6.52	6.52	0.44	1.03	± 13.3%
3900	37.5	3.32	6.40	6.40	6.40	0.40	1.25	± 13.3%
4100	37.2	3.53	6.50	6.50	6.50	0.40	1.15	± 13.3%
4200	37.1	3.63	6.32	6.32	6.32	0.40	1.25	± 13.3%
4400	36.9	3.84	6.19	6.19	6.19	0.35	1.35	± 13.3%
4600	36.7	4.04	6.10	6.10	6.10	0.45	1.20	± 13.3%
4800	36.4	4.25	6.05	6.05	6.05	0.45	1.20	± 13.3%
4950	36.3	4.40	5.86	5.86	5.86	0.45	1.26	± 13.3%
5250	35.9	4.71	5.31	5.31	5.31	0.40	1.55	± 13.3%
5600	35.5	5.07	4.82	4.82	4.82	0.50	1.30	± 13.3%
5750	35.4	5.22	4.90	4.90	4.90	0.50	1.30	± 13.3%

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

^F At frequency below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

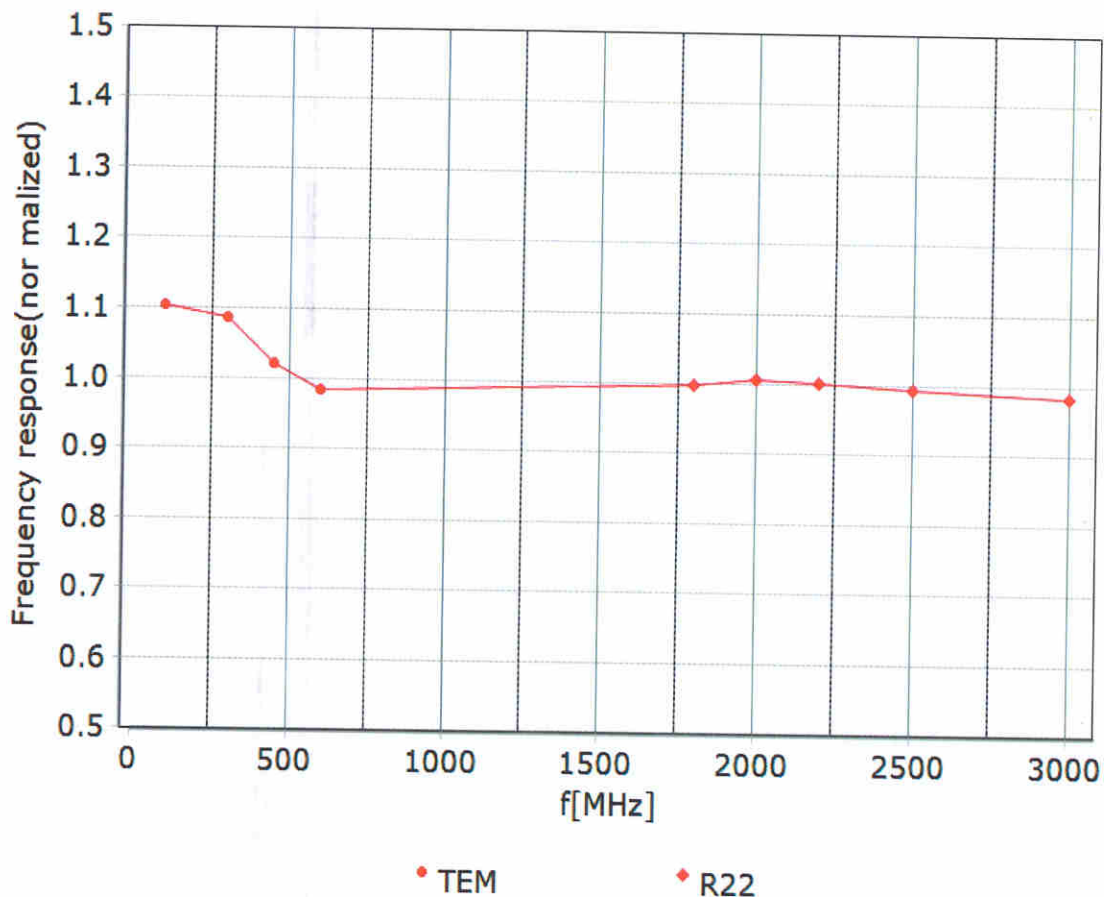
^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from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



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



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

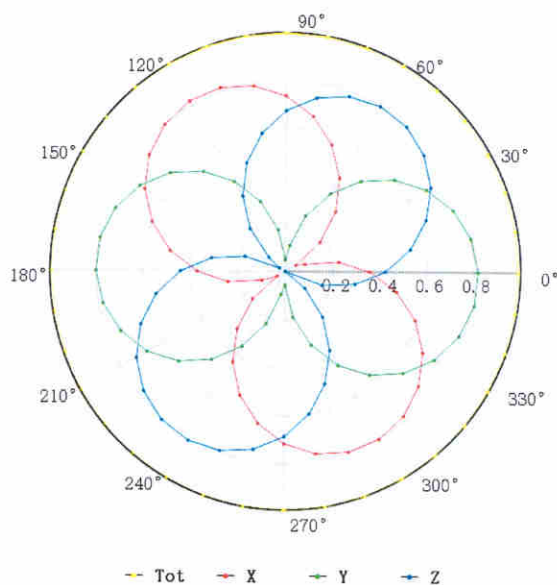


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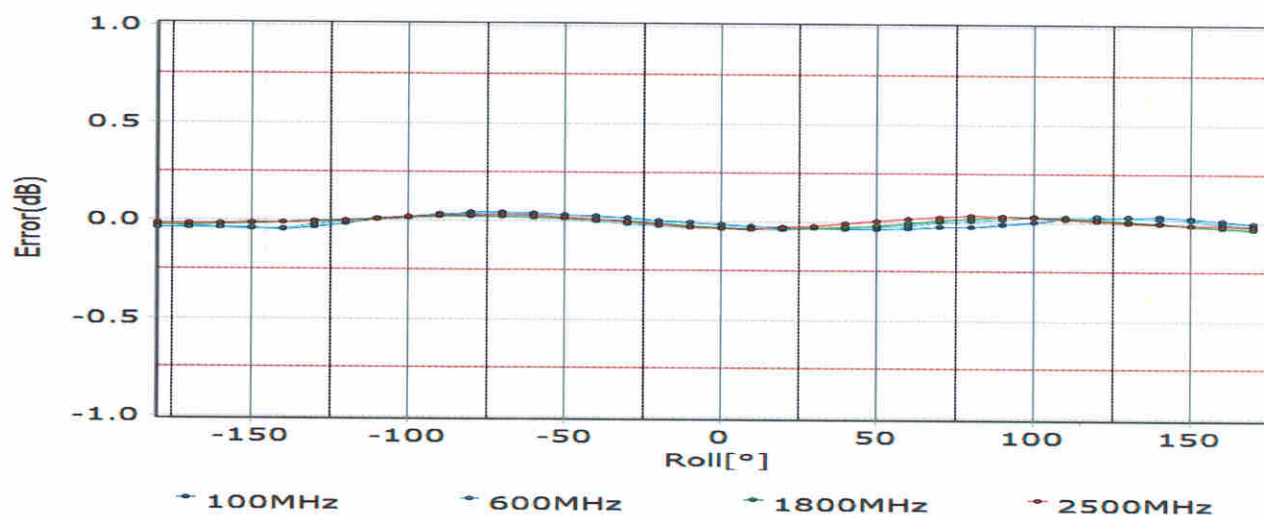
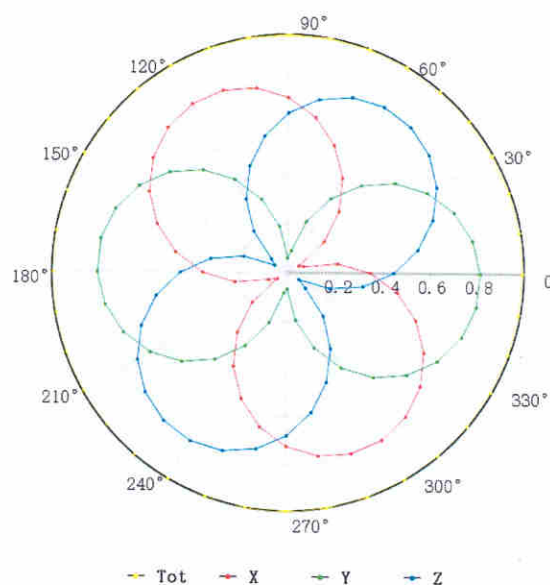
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Receiving Pattern (Φ), $\theta=0^\circ$

f=600 MHz, TEM



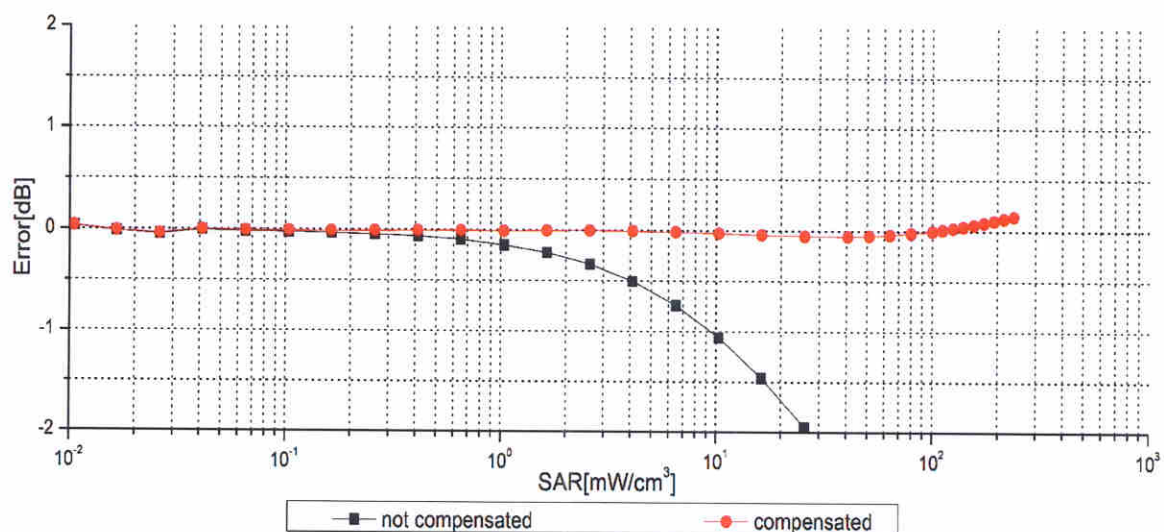
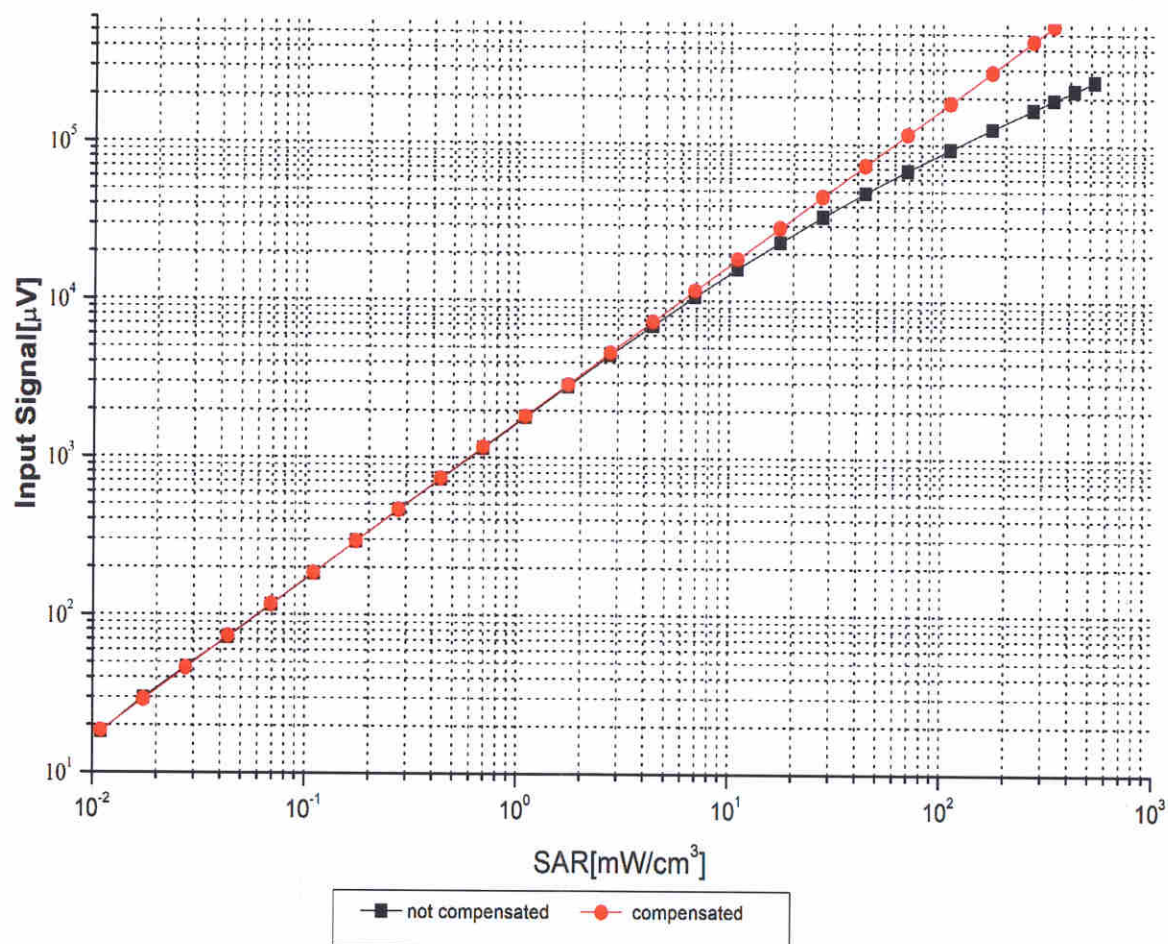
f=1800 MHz, R22



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



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



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



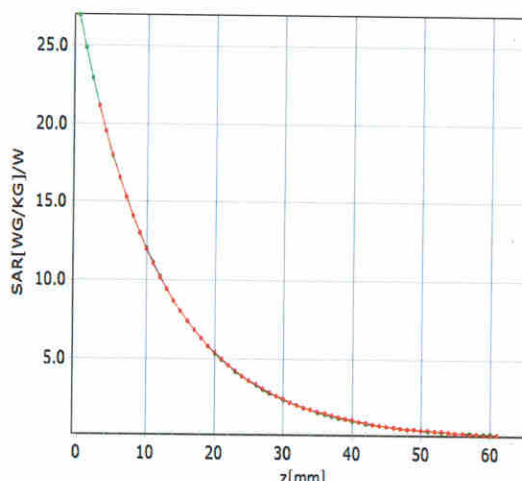
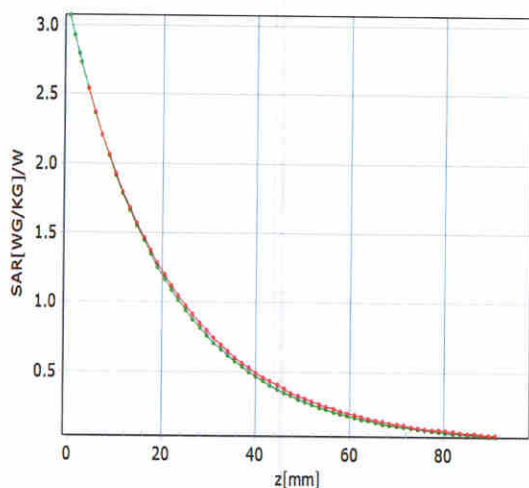
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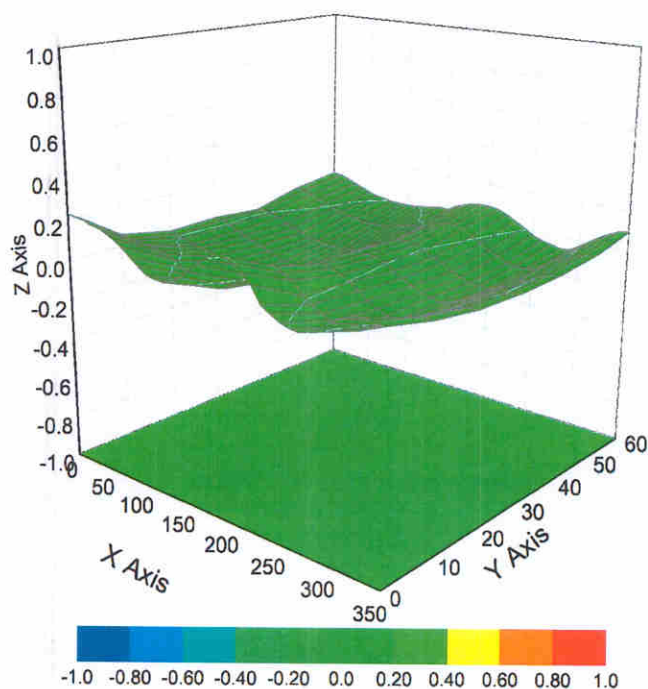
Conversion Factor Assessment

f=750 MHz,WGLS R9(H_convF)

f=1750 MHz,WGLS R22(H_convF)



Deviation from Isotropy in Liquid



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



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DASY/EASY – Parameters of Probe: EX3DV4 – SN:3975

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	86.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
Tip Diameter	2.5mm
Probe Tip to Sensor X Calibration Point	1mm
Probe Tip to Sensor Y Calibration Point	1mm
Probe Tip to Sensor Z Calibration Point	1mm
Recommended Measurement Distance from Surface	1.4mm



Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.

Full Power Mode

GSM850		Burst Average Power (dBm)			Tune-up		Frame Average Power (dBm)			Tune-up	
TX Channel		128	149	251	Limit		189	189	251	Limit	
Frequency (MHz)		824.2	836.4	848.8	(dBm)		824.2	836.4	848.8	(dBm)	
GSM 1 Tx slot		32.90	32.96	32.72	33.50		23.90	23.96	23.72	24.50	
GPRS 1 Tx slot		32.91	33.00	32.87	33.50		23.91	24.00	23.87	24.50	
GPRS 2 Tx slots		30.77	30.86	30.76	32.00		24.77	24.86	24.76	26.00	
GPRS 3 Tx slots		28.53	28.55	28.60	30.00		24.27	24.29	24.34	25.74	
GPRS 4 Tx slots		26.60	26.55	26.58	28.50		23.60	23.55	23.58	25.50	
EDGE 1 Tx slot		26.85	26.82	26.87	28.50		17.85	17.62	17.87	19.50	
EDGE 2 Tx slots		24.75	24.64	24.71	26.00		18.75	18.64	18.71	20.00	
EDGE 3 Tx slots		22.33	22.48	22.42	23.50		18.07	18.22	18.16	19.24	
EDGE 4 Tx slots		19.73	19.75	19.76	21.00		16.73	16.75	16.76	18.00	

GSM1900		Burst Average Power (dBm)			Tune-up		Frame Average Power (dBm)			Tune-up	
TX Channel		512	661	810	Limit		512	661	810	Limit	
Frequency (MHz)		1520.2	1620	1720.3	(dBm)		1520.2	1620	1720.3	(dBm)	
GSM 1 Tx slot		29.50	29.55	29.57	30.50		20.50	20.55	20.57	21.50	
GPRS 1 Tx slot		29.65	29.66	29.60	30.50		20.65	20.66	20.60	21.50	
GPRS 2 Tx slots		27.40	27.44	27.42	28.50		21.40	21.44	21.42	22.50	
GPRS 3 Tx slots		24.88	24.85	24.82	26.00		20.62	20.59	20.56	21.74	
GPRS 4 Tx slots		23.32	23.50	23.30	24.50		20.32	20.50	20.30	21.50	
EDGE 1 Tx slot		25.16	25.50	25.94	27.00		17.16	16.69	16.94	18.00	
EDGE 2 Tx slots		24.16	23.90	23.83	24.50		18.16	17.90	17.83	18.50	
EDGE 3 Tx slots		21.70	21.81	21.79	22.00		17.44	17.55	17.53	17.74	
EDGE 4 Tx slots		19.84	19.77	19.67	21.00		16.84	16.77	16.67	18.00	

Band		WCDMA II			Tune-up		WCDMA IV			Tune-up		WCDMA V			Tune-up	
TX Channel		9262	9400	9538	Limit		1312	1413	1513	Limit		4192	4192	4233	Limit	
Rx Channel		9652	9800	9938	(dBm)		1537	1638	1738	(dBm)		4357	4357	4458	(dBm)	
Frequency (MHz)		1852.4	1880	1907.6			1712.4	1732.6	1752.6			626.4	636.4	646.6		
3GPP Rel 99	AMR 12.2Kbps	22.75	22.76	22.68	24.00		22.95	22.90	22.91	24.00		23.10	23.22	23.15	24.00	
3GPP Rel 99	AMR 12.2Kbps	22.68	22.52	22.50	24.00		23.09	23.10	23.07	24.00		23.30	23.35	23.20	24.00	
3GPP Rel 6	HSDPA Subclass-1	21.98	21.88	22.02	23.00		22.04	21.96	21.91	23.00		21.88	22.02	21.88	23.00	
3GPP Rel 6	HSDPA Subclass-2	21.95	21.98	22.06	23.00		21.95	22.02	22.07	23.00		21.97	22.22	22.04	23.00	
3GPP Rel 6	HSDPA Subclass-3	21.47	21.42	21.48	22.50		21.49	21.50	21.53	22.50		21.55	21.75	21.66	22.50	
3GPP Rel 6	HSDPA Subclass-4	21.45	21.54	21.52	22.50		21.39	21.46	21.55	22.50		21.44	21.67	21.62	22.50	
3GPP Rel 8	DC-HSDPA Subclass-1	21.56	21.91	21.53	23.00		21.96	21.96	21.87	23.00		21.97	21.98	22.06	23.00	
3GPP Rel 8	DC-HSDPA Subclass-2	21.80	21.96	21.94	23.00		21.88	21.99	22.00	23.00		21.97	22.00	21.92	23.00	
3GPP Rel 8	DC-HSDPA Subclass-3	21.34	21.36	21.45	22.50		21.39	21.39	21.35	22.50		21.74	21.76	21.65	22.50	
3GPP Rel 8	DC-HSDPA Subclass-4	21.38	21.42	21.35	22.50		21.40	21.43	21.42	22.50		21.70	21.72	21.69	22.50	
3GPP Rel 6	HSUPA Subclass-1	21.92	22.00	22.01	23.00		21.98	22.00	22.12	23.00		21.88	21.57	22.03	23.00	
3GPP Rel 6	HSUPA Subclass-2	19.96	19.95	19.91	21.00		19.97	19.98	20.06	21.00		20.09	20.15	20.00	21.00	
3GPP Rel 6	HSUPA Subclass-3	20.93	21.01	21.11	22.00		20.98	21.03	21.13	22.00		20.99	21.06	20.98	22.00	
3GPP Rel 6	HSUPA Subclass-4	19.83	20.02	20.15	21.00		19.84	20.00	20.13	21.00		20.11	20.23	20.14	21.00	
3GPP Rel 6	HSUPA Subclass-5	22.01	22.06	22.08	23.00		21.98	21.95	22.10	23.00		21.94	22.06	21.99	23.00	

Band 2												
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)												
20	QPSK	1	0	22.59	22.60	22.57	24	0				
20	QPSK	1	49	22.92	23.05	22.86						
20	QPSK	1	99	22.63	22.72	22.60						
20	QPSK	50	0	21.87	21.89	21.76						
20	QPSK	50	24	21.74	21.79	21.72	23	1				
20	QPSK	50	50	21.71	21.80	21.70						
20	QPSK	100	0	21.81	21.83	21.73						
20	16QAM	1	0	21.47	21.66	21.51						
20	16QAM	1	49	21.21	21.59	21.90	23	1				
20	16QAM	1	99	21.58	21.54	21.65						
20	16QAM	50	0	20.86	20.80	20.67						
20	16QAM	50	24	20.80	20.82	20.64						
20	16QAM	50	50	20.77	20.67	20.79	22	2				
20	16QAM	100	0	20.80	20.76	20.68						
20	64QAM	1	0	20.69	20.65	20.36						
20	64QAM	1	49	21.00	20.96	20.95						
20	64QAM	1	99	20.51	20.32	20.97	22	2				
20	64QAM	50	0	19.85	19.75	19.73						
20	64QAM	50	24	19.73	19.94	19.74						
20	64QAM	50	50	19.77	19.68	19.80						
20	64QAM	100	0	19.87	19.80	19.85	21	3				
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.57	22.60	22.30	24	0				
15	QPSK	1	37	22.87	23.01	22.80						
15	QPSK	1	74	22.73	22.39	22.56						
15	QPSK	36	0	21.79	21.75	21.67						
15	QPSK	36	20	21.61	21.72	21.63	23	1				
15	QPSK	36	39	21.72	21.68	21.61						
15	QPSK	75	0	21.72	21.81	21.64						
15	16QAM	1	0	21.36	21.63	21.45						
15	16QAM	1	37	21.14	21.57	21.82	23	1				
15	16QAM	1	74	21.51	21.41	21.62						
15	16QAM	36	0	20.79	20.78	20.72						
15	16QAM	36	20	20.71	20.76	20.64						
15	16QAM	36	39	20.76	20.80	20.76	22	2				
15	16QAM	75	0	20.65	20.72	20.62						
15	64QAM	1	0	21.47	21.50	21.24						
15	64QAM	1	37	21.83	21.85	21.83						
15	64QAM	1	74	21.29	21.12	21.54	22	2				
15	64QAM	36	0	20.31	20.19	20.23						
15	64QAM	36	20	20.13	20.38	20.16						
15	64QAM	36	39	20.26	20.15	20.18						
15	64QAM	75	0	20.23	20.16	20.20	21	3				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.55	22.55	22.37	24	0				
10	QPSK	1	25	22.92	23.01	22.80						
10	QPSK	1	49	22.68	22.33	22.64						
10	QPSK	25	0	21.87	21.71	21.70						
10	QPSK	25	12	21.63	21.77	21.64	23	1				
10	QPSK	25	25	21.61	21.55	21.58						
10	QPSK	50	0	21.74	21.71	21.67						
10	16QAM	1	0	21.47	21.52	21.39						
10	16QAM	1	25	21.06	21.51	21.78	23	1				
10	16QAM	1	49	21.46	21.51	21.65						
10	16QAM	25	0	20.74	20.67	20.73						
10	16QAM	25	12	20.76	20.80	20.49						
10	16QAM	25	25	20.73	20.54	20.74	22	2				
10	16QAM	50	0	20.70	20.72	20.65						
10	64QAM	1	0	21.57	21.54	21.25						
10	64QAM	1	25	21.87	21.77	21.83						
10	64QAM	1	49	21.37	21.20	21.54	21	3				
10	64QAM	25	0	20.23	20.19	20.10						
10	64QAM	25	12	20.17	20.39	20.09						
10	64QAM	25	25	20.16	20.08	20.26						
10	64QAM	50	0	20.23	20.22	20.22	21	3				
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.57	22.47	22.97	24	0				
5	QPSK	1	12	22.77	22.92	22.76						
5	QPSK	1	24	22.71	22.31	22.54						
5	QPSK	12	0	21.84	21.81	21.65						
5	QPSK	12	7	21.68	21.76	21.61	23	1				
5	QPSK	12	13	21.61	21.68	21.69						
5	QPSK	25	0	21.78	21.78	21.64						
5	16QAM	1	0	21.36	21.65	21.46						
5	16QAM	1	12	21.17	21.45	21.80	23	1				
5	16QAM	1	24	21.50	21.42	21.54						
5	16QAM	12	0	20.86	20.74	20.68						
5	16QAM	12	7	20.75	20.79	20.60						
5	16QAM	12	13	20.65	20.59	20.70	22	2				
5	16QAM	25	0	20.70	20.70	20.65						
5	64QAM	1	0	21.44	21.46	21.13						
5	64QAM	1	12	21.81	21.71	21.70						
5	64QAM	1	24	21.36	21.09	21.53	22	2				
5	64QAM	12	0	20.29	20.15	20.19						
5	64QAM	12	7	20.23	20.36	20.16						
5	64QAM	12	13	20.26	20.11	20.18						
5	64QAM	25	0	20.31	20.30	20.20	21	3				
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.56	22.60	22.36	24	0				
3	QPSK	1	8	22.85	22.98	22.73						
3	QPSK	1	14	22.79	22.34	22.52						
3	QPSK	8	0	21.76	21.68	21.72						
3	QPSK	8	4	21.64	21.76	21.74	23	1				
3	QPSK	8	7	21.73	21.58	21.56						
3	QPSK	15	0	21.72	21.83	21.66						
3	16QAM	1	0	21.39	21.53	21.46						
3	16QAM	1	8	21.08	21.52	21.81	23	1				
3	16QAM	1	14	21.51	21.46	21.56						
3	16QAM	8	0	20.79	20.72	20.67						
3	16QAM	8	4	20.65	20.80	20.50						
3	16QAM	8	7	20.62	20.66	20.74	22	2				
3	16QAM	15	0	20.71	20.67	20.66						
3	64QAM	1	0	21.46	21.46	21.14						
3	64QAM	1	8	21.80	21.79	21.80						
3	64QAM	1	14	21.32	21.14	21.50	22	2				
3	64QAM	8	0	20.22	20.10	20.15						
3	64QAM	8	4	20.10	20.35	20.09						
3	64QAM	8	7	20.14	20.12	20.23						
3	64QAM	15	0	20.31	20.20	20.30	21	3				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.56	22.56	22.35	24	0				
1.4	QPSK	1	3	22.79	23.04	22.85						
1.4	QPSK	1	5	22.74	22.40	22.64						
1.4	QPSK	3	0	22.68	22.35	22.54						
1.4	QPSK	3	1	22.69	22.26	22.62	23	1				
1.4	QPSK	3	3	22.68	22.26	22.50						
1.4	QPSK	6	0	21.77	21.69	21.69						
1.4	16QAM	1	0	21.36	21.54	21.45						
1.4	16QAM	1	5	21.30	21.45	21.67	23	1				
1.4	16QAM	1	5	21.50	21.39	21.55						
1.4	16QAM	3	0	21.42	21.31	21.52						
1.4	16QAM	3	1	21.41	21.38	21.43						
1.4	16QAM	3	3	21.42	21.34	21.51	22	2				
1.4	16QAM	6	0	20.67	20.65	20.64						
1.4	64QAM	1	0	21.59	21.55	21.24						
1.4	64QAM	1	3	21.85	21.74	21.73						
1.4	64QAM	1	5	21.30	20.16	21.52	22	2				
1.4	64QAM	3	0	20.35	20.19	20.17						
1.4	64QAM	3	1	20.20	20.29	20.16						
1.4	64QAM	3	3	20.26	20.13	20.27						
1.4	64QAM	6	0	20.26	20.24	20.31	21	3				

Band 7

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				20850	21100	21350	24	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.56	22.46	22.49	24	0
20	QPSK	1	49	22.92	22.85	22.88		
20	QPSK	1	99	22.86	22.72	22.80	23	1
20	QPSK	50	0	21.97	21.87	21.89		
20	QPSK	50	24	21.89	21.79	21.82	23	1
20	QPSK	50	50	21.90	21.80	21.85		
20	QPSK	100	0	21.90	21.81	21.87	23	1
20	16QAM	1	0	21.37	21.45	21.44		
20	16QAM	1	49	21.82	21.71	21.85	22	2
20	16QAM	1	99	21.81	21.36	21.32		
20	16QAM	50	0	20.69	20.97	20.85	22	2
20	16QAM	50	24	20.59	20.95	20.89		
20	16QAM	50	50	20.73	20.87	20.97	22	2
20	16QAM	100	0	20.66	20.89	20.86		
20	64QAM	1	0	20.72	20.96	20.66	22	2
20	64QAM	1	49	20.67	21.27	21.00		
20	64QAM	1	99	20.75	21.27	21.07	21	3
20	64QAM	50	0	19.75	19.92	20.02		
20	64QAM	50	24	19.65	19.96	19.95	21	3
20	64QAM	50	50	19.72	20.09	20.04		
20	64QAM	100	0	19.74	19.96	19.96	24	0
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5	24	0
15	QPSK	1	0	22.42	22.41	22.44		
15	QPSK	1	37	22.81	22.86	22.84	23	1
15	QPSK	1	74	22.64	22.86	22.68		
15	QPSK	36	0	21.60	21.88	21.89	23	1
15	QPSK	36	20	21.53	21.83	21.85		
15	QPSK	36	39	21.74	21.83	21.77	23	1
15	QPSK	75	0	21.69	21.83	21.72		
15	16QAM	1	0	21.31	21.41	21.33	23	1
15	16QAM	1	37	21.17	21.38	21.20		
15	16QAM	1	74	21.73	21.35	21.20	22	2
15	16QAM	36	0	20.56	20.92	20.77		
15	16QAM	36	20	20.49	20.94	20.87	22	2
15	16QAM	36	39	20.63	20.77	20.93		
15	16QAM	75	0	20.84	20.88	20.76	22	2
15	64QAM	1	0	20.71	20.87	20.65		
15	64QAM	1	37	20.57	20.74	20.55	21	3
15	64QAM	1	74	20.66	21.12	20.95		
15	64QAM	36	0	19.74	19.78	19.89	21	3
15	64QAM	36	20	19.51	19.95	19.89		
15	64QAM	36	39	19.81	19.95	19.89	24	0
15	64QAM	75	0	19.71	19.90	19.87		
Channel				20800	21100	21400	24	0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.52	22.41	22.42	24	0
10	QPSK	1	25	22.67	22.82	22.90		
10	QPSK	1	49	22.56	22.85	22.64	23	1
10	QPSK	25	0	21.62	21.86	21.88		
10	QPSK	25	12	21.56	21.86	21.78	23	1
10	QPSK	25	25	21.71	21.94	21.75		
10	QPSK	50	0	21.61	21.87	21.80	23	1
10	16QAM	1	0	21.36	21.33	21.30		
10	16QAM	1	25	21.62	21.68	21.70	22	2
10	16QAM	1	49	21.79	21.34	21.20		
10	16QAM	25	0	20.60	20.86	20.81	22	2
10	16QAM	25	12	20.50	20.94	20.79		
10	16QAM	25	25	20.61	20.79	20.94	22	2
10	16QAM	50	0	20.53	20.74	20.77		
10	64QAM	1	0	20.66	20.88	20.54	22	2
10	64QAM	1	25	20.58	21.15	20.91		
10	64QAM	1	49	20.70	21.19	20.94	21	3
10	64QAM	25	0	19.72	19.87	19.94		
10	64QAM	25	12	19.59	19.92	19.83	21	3
10	64QAM	25	25	19.60	19.97	20.02		
10	64QAM	50	0	19.59	19.86	19.95	24	0
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5	24	0
5	QPSK	1	0	22.53	22.44	22.32		
5	QPSK	1	12	22.76	22.84	22.90	23	1
5	QPSK	1	24	22.66	22.79	22.66		
5	QPSK	12	0	21.58	21.86	21.82	23	1
5	QPSK	12	7	21.56	21.74	21.81		
5	QPSK	12	13	21.72	21.91	21.81	23	1
5	QPSK	25	0	21.64	21.83	21.73		
5	16QAM	1	0	21.22	21.36	21.29	23	1
5	16QAM	1	12	21.53	21.58	21.88		
5	16QAM	1	24	21.68	21.25	21.23	22	2
5	16QAM	12	0	20.68	20.87	20.79		
5	16QAM	12	7	20.56	20.85	20.81	22	2
5	16QAM	12	13	20.70	20.85	20.89		
5	16QAM	25	0	20.54	20.89	20.84	22	2
5	64QAM	1	0	20.70	20.85	20.54		
5	64QAM	1	12	20.55	20.85	20.41	21	3
5	64QAM	1	24	20.62	21.18	20.96		
5	64QAM	12	0	19.64	19.86	19.95	21	3
5	64QAM	12	7	19.57	19.94	19.82		
5	64QAM	12	13	19.57	19.96	19.90	21	3
5	64QAM	25	0	19.64	19.82	19.89		

Band 13

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				23205	23230	23255	24	0
Frequency (MHz)				779.5	782	784.5		
10	QPSK	1	0	22.56	22.56		24	0
10	QPSK	1	25	22.86				
10	QPSK	1	49	22.75			23	1
10	QPSK	25	0	21.98				
10	QPSK	25	12	21.97			23	1
10	QPSK	25	25	21.91				
10	QPSK	50	0	21.87			23	1
10	16QAM	1	0	21.62				
10	16QAM	1	25	21.96			22	2
10	16QAM	1	49	21.58				
10	16QAM	25	0	20.89			22	2
10	16QAM	25	12	20.77				
10	16QAM	25	25	20.96			22	2
10	16QAM	50	0	20.97				
10	64QAM	1	0	21.54			22	2
10	64QAM	1	25	21.93				
10	64QAM	1	49	21.47			21	3
10	64QAM	25	0	20.58				
10	64QAM	25	12	20.67			21	3
10	64QAM	25	25	20.31				
10	64QAM	50	0	20.51			24	0
Channel				23205	23230	23255		
Frequency (MHz)				779.5	782	784.5	24	0
5	QPSK	1	0	22.49	22.48	22.45		
5	QPSK	1	12	22.63	22.72	22.71	23	1
5	QPSK	1	24	22.61	22.60	22.72		
5	QPSK	12	0	21.84	21.86	21.88	23	1
5	QPSK	12	7	21.90	21.83	21.96		
5	QPSK	12	13	21.78	21.83	21.85	23	1
5	QPSK	25	0	21.77	21.76	21.74		
5	16QAM	1	0	21.60	21.55	21.52	23	1
5	16QAM	1	12	21.60	21.54	21.55		
5	16QAM	1	24	21.43	21.44	21.52	22	2
5	16QAM	12	0	20.76	20.80	20.87		
5	16QAM	12	7	20.68	20.68	20.66	22	2
5	16QAM	12	13	20.88	20.87	20.95		
5	16QAM	25	0	20.84	20.82	20.86	22	2
5	64QAM	1	0	21.54	21.50	21.50		
5	64QAM	1	12	21.83	21.93	21.80	21	3
5	64QAM	1	24	21.33	21.39	21.47		
5	64QAM	12	0	20.50	20.49	20.48	21	3
5	64QAM	12	7	20.65	20.63	20.64		
5	64QAM	12	13	20.28	20.24	20.31	21	3
5	64QAM	25	0	20.50	20.50	20.46		

Band 26									
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				26765	26865	26965			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	0	22.87	22.93	22.81	24	0	
15	QPSK	1	37	23.39	23.42	23.33			
15	QPSK	1	74	23.10	23.12	23.03			
15	QPSK	36	0	22.17	22.23	22.12	23	1	
15	QPSK	36	20	22.09	22.19	22.06			
15	QPSK	36	39	22.19	22.22	22.11			
15	QPSK	75	0	22.12	22.21	22.09	23	1	
15	16QAM	1	0	21.79	22.00	21.98			
15	16QAM	1	37	22.81	22.98	22.50			
15	16QAM	1	74	22.01	21.89	21.85	22	2	
15	16QAM	36	0	21.03	21.06	21.08			
15	16QAM	36	20	21.15	21.07	20.98			
15	16QAM	36	39	21.04	20.98	21.05	22	2	
15	16QAM	75	0	21.18	21.12	21.18			
15	64QAM	1	0	21.08	21.06	21.06			
15	64QAM	1	37	21.72	21.59	21.60	22	2	
15	64QAM	1	74	21.16	20.99	21.12			
15	64QAM	36	0	20.10	20.20	20.21			
15	64QAM	36	20	20.37	20.15	20.23	21	3	
15	64QAM	36	39	20.07	20.26	20.15			
15	64QAM	75	0	20.09	20.05	19.99			
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	22.69	23.04	22.72	24	0	
10	QPSK	1	25	22.98	23.05	23.17			
10	QPSK	1	49	23.15	22.81	23.24			
10	QPSK	25	0	22.04	22.14	22.07	23	1	
10	QPSK	25	12	22.05	22.08	22.10			
10	QPSK	25	25	22.17	22.19	22.06			
10	QPSK	50	0	22.03	22.06	22.15	23	1	
10	16QAM	1	0	21.87	22.00	21.94			
10	16QAM	1	25	21.91	21.90	22.23			
10	16QAM	1	49	22.07	21.95	21.81	22	2	
10	16QAM	25	0	21.15	21.05	21.26			
10	16QAM	25	12	21.00	20.99	21.30			
10	16QAM	25	25	21.04	21.21	21.06	22	2	
10	16QAM	50	0	21.01	20.88	20.98			
10	64QAM	1	0	20.98	21.09	21.06			
10	64QAM	1	25	21.59	21.53	21.62	22	2	
10	64QAM	1	49	21.07	21.11	20.99			
10	64QAM	25	0	19.86	19.87	20.34			
10	64QAM	25	12	19.98	20.20	20.28	21	3	
10	64QAM	25	25	20.02	20.20	20.08			
10	64QAM	50	0	20.00	19.98	20.08			
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	22.87	22.73	22.65	24	0	
5	QPSK	1	12	23.32	23.38	22.99			
5	QPSK	1	24	22.73	22.68	22.70			
5	QPSK	12	0	22.02	21.99	22.06	23	1	
5	QPSK	12	7	22.05	22.08	22.05			
5	QPSK	12	13	22.08	21.98	22.00			
5	QPSK	25	0	22.03	22.08	22.08	23	1	
5	16QAM	1	0	21.85	22.16	22.25			
5	16QAM	1	12	21.97	22.36	22.31			
5	16QAM	1	24	21.84	21.82	21.81	22	2	
5	16QAM	12	0	20.87	20.90	21.14			
5	16QAM	12	7	20.92	20.92	21.15			
5	16QAM	12	13	20.95	20.90	20.92	22	2	
5	16QAM	25	0	21.11	21.09	20.88			
5	64QAM	1	0	20.92	20.96	20.92			
5	64QAM	1	12	21.43	21.44	21.46	22	2	
5	64QAM	1	24	20.93	21.00	21.01			
5	64QAM	12	0	19.78	19.83	20.16			
5	64QAM	12	7	19.74	19.94	20.18	21	3	
5	64QAM	12	13	19.77	19.93	19.96			
5	64QAM	25	0	19.79	19.90	20.18			
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	22.80	22.76	22.99	24	0	
3	QPSK	1	8	22.74	22.90	22.96			
3	QPSK	1	14	22.80	22.94	22.99			
3	QPSK	8	0	22.03	22.05	22.10	23	1	
3	QPSK	8	4	22.06	22.07	22.13			
3	QPSK	8	7	22.12	22.04	22.03			
3	QPSK	15	0	22.01	22.08	22.05	23	1	
3	16QAM	1	0	22.17	22.13	22.02			
3	16QAM	1	8	21.87	21.87	21.92			
3	16QAM	1	14	22.02	21.68	21.76	22	2	
3	16QAM	8	0	21.12	21.20	21.02			
3	16QAM	8	4	21.13	21.21	21.05			
3	16QAM	8	7	21.18	21.09	21.08	22	2	
3	16QAM	15	0	20.72	20.73	21.07			
3	64QAM	1	0	21.03	21.01	21.04			
3	64QAM	1	8	21.35	21.40	20.91	22	2	
3	64QAM	1	14	20.96	21.04	21.00			
3	64QAM	8	0	20.90	20.02	19.91			
3	64QAM	8	4	19.85	20.04	19.87	21	3	
3	64QAM	8	7	19.97	20.00	19.90			
3	64QAM	15	0	19.91	20.01	20.01			
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	22.94	22.85	22.96	24	0	
1.4	QPSK	1	3	23.06	23.04	22.96			
1.4	QPSK	1	5	22.96	23.00	22.97			
1.4	QPSK	3	0	22.93	23.14	23.06	23	1	
1.4	QPSK	3	1	22.97	23.26	23.11			
1.4	QPSK	3	3	23.05	23.34	23.02			
1.4	QPSK	6	0	21.99	22.09	22.01	23	1	
1.4	16QAM	1	0	21.82	22.05	21.91			
1.4	16QAM	1	3	21.88	21.84	22.11			
1.4	16QAM	1	5	21.74	21.80	21.76	23	1	
1.4	16QAM	3	0	22.11	22.10	22.10			
1.4	16QAM	3	1	22.08	22.12	22.12			
1.4	16QAM	3	3	22.15	22.12	22.17	22	2	
1.4	16QAM	6	0	20.96	20.77	20.89			
1.4	64QAM	1	0	21.04	21.22	21.09			
1.4	64QAM	1	3	21.07	21.26	21.13	22	2	
1.4	64QAM	1	5	21.01	21.19	20.93			
1.4	64QAM	3	0	21.16	20.69	21.05			
1.4	64QAM	3	1	21.11	21.15	20.98	21	3	
1.4	64QAM	3	3	21.06	21.07	21.05			
1.4	64QAM	6	0	19.90	19.77	19.97			

Band 66									
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				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	23.31	23.40	23.33	24	0	
20	QPSK	1	49	23.41	23.50	23.52			
20	QPSK	1	99	23.22	23.50	23.51			
20	QPSK	50	0	21.95	22.32	22.19	23	1	
20	QPSK	50	24	22.00	22.22	22.18			
20	QPSK	50	50	21.94	22.15	22.06			
20	QPSK	100	0	21.95	22.16	22.16	23	1	
20	16QAM	1	0	21.78	22.14	22.07			
20	16QAM	1	49	21.77	22.06	21.93			
20	16QAM	1	99	21.75	21.92	21.92	22	2	

Band 38								
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				37880	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	22.68	22.82	22.49	24	0
20	QPSK	1	49	22.92	22.99	22.76		
20	QPSK	1	99	22.70	22.74	22.64		
20	QPSK	50	0	22.49	22.51	22.35		
20	QPSK	50	24	22.43	22.48	22.34	23	1
20	QPSK	50	50	22.40	22.46	22.28		
20	QPSK	100	0	22.41	22.45	22.35		
20	16QAM	1	0	22.33	22.30	22.25		
20	16QAM	1	49	21.87	21.97	21.93	23	1
20	16QAM	1	99	21.91	21.93	21.92		
20	16QAM	50	0	21.50	21.29	21.33		
20	16QAM	50	24	21.45	21.45	21.36		
20	16QAM	50	50	21.52	21.36	21.30	22	2
20	16QAM	100	0	21.47	21.43	21.27		
20	64QAM	1	0	21.38	21.33	21.20		
20	64QAM	1	49	20.48	20.54	20.49		
20	64QAM	1	99	20.37	20.30	20.21	22	2
20	64QAM	50	0	19.97	19.94	19.90		
20	64QAM	50	24	20.12	19.97	19.90		
20	64QAM	50	50	20.10	20.03	19.87		
20	64QAM	100	0	20.05	20.00	19.94	21	3
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	22.65	22.78	22.46	24	0
15	QPSK	1	37	22.92	22.96	22.74		
15	QPSK	1	74	22.76	22.61	22.49		
15	QPSK	36	0	22.47	22.31	22.21		
15	QPSK	36	20	22.40	22.38	22.30	23	1
15	QPSK	36	39	22.42	22.42	22.25		
15	QPSK	75	0	22.31	22.26	22.23		
15	16QAM	1	0	22.30	22.20	22.21		
15	16QAM	1	37	21.82	21.91	21.81	23	1
15	16QAM	1	74	21.77	21.83	21.88		
15	16QAM	36	0	21.39	21.16	21.25		
15	16QAM	36	20	21.43	21.36	21.28		
15	16QAM	36	39	21.38	21.38	21.22	22	2
15	16QAM	75	0	21.39	21.28	21.26		
15	64QAM	1	0	21.25	21.32	21.08		
15	64QAM	1	37	20.34	20.45	20.40		
15	64QAM	1	74	20.27	20.20	20.07	22	2
15	64QAM	36	0	19.92	19.88	19.86		
15	64QAM	36	20	20.08	19.95	19.88		
15	64QAM	36	39	20.14	20.00	19.84		
15	64QAM	75	0	20.06	20.01	19.75	21	3
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	22.66	22.80	22.47	24	0
10	QPSK	1	25	22.96	22.91	22.75		
10	QPSK	1	49	22.75	22.61	22.60		
10	QPSK	25	0	22.44	22.34	22.30		
10	QPSK	25	12	22.39	22.43	22.28	23	1
10	QPSK	25	25	22.47	22.44	22.18		
10	QPSK	50	0	22.44	22.26	22.35		
10	16QAM	1	0	22.21	22.19	22.17		
10	16QAM	1	25	21.78	21.85	21.81	23	1
10	16QAM	1	49	21.80	21.85	21.89		
10	16QAM	25	0	21.50	21.19	21.19		
10	16QAM	25	12	21.36	21.30	21.28		
10	16QAM	25	25	21.51	21.25	21.30	22	2
10	16QAM	50	0	21.40	21.31	21.23		
10	64QAM	1	0	21.24	21.18	21.17		
10	64QAM	1	25	20.33	20.43	20.34		
10	64QAM	1	49	20.32	20.24	20.08	22	2
10	64QAM	25	0	19.93	19.79	19.84		
10	64QAM	25	12	19.97	19.93	19.77		
10	64QAM	25	25	20.24	19.95	19.77		
10	64QAM	50	0	20.11	19.79	19.84	21	3
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.57	22.67	22.37	24	0
5	QPSK	1	12	22.93	22.91	22.75		
5	QPSK	1	24	22.69	22.70	22.61		
5	QPSK	12	0	22.34	22.30	22.26		
5	QPSK	12	7	22.39	22.35	22.34	23	1
5	QPSK	12	13	22.43	22.43	22.20		
5	QPSK	25	0	22.42	22.38	22.20		
5	16QAM	1	0	22.23	22.28	22.10		
5	16QAM	1	12	21.82	21.90	21.87	23	1
5	16QAM	1	24	21.88	21.81	21.88		
5	16QAM	12	0	21.43	21.23	21.23		
5	16QAM	12	7	21.35	21.43	21.22		
5	16QAM	12	13	21.44	21.34	21.23	22	2
5	16QAM	25	0	21.32	21.41	21.19		
5	64QAM	1	0	21.31	21.24	21.13		
5	64QAM	1	12	20.40	20.45	20.34		
5	64QAM	1	24	20.35	20.26	20.20	22	2
5	64QAM	12	0	19.82	19.94	19.85		
5	64QAM	12	7	20.09	19.91	19.84		
5	64QAM	12	13	19.84	19.88	19.72		
5	64QAM	25	0	20.20	20.12	19.75	21	3

Reduced Power Mode for Sensor on

GSM850		Burst Average Power (dBm)			Tune-up Limit		Frame Average Power (dBm)			Tune-up Limit	
TX Channel		128	189	251	(dBm)		128	189	251	(dBm)	
Frequency (MHz)		824.2	836.4	848.6			824.2	836.4	848.6		
GSM 1 Tx slot		32.41	32.43	32.30	33.00		23.41	23.43	23.30	24.00	
GPRS 1 Tx slot		32.44	32.45	32.35	33.00		23.44	23.45	23.35	24.00	
GPRS 2 Tx slots		30.27	30.37	30.29	31.50		24.27	24.37	24.29	25.50	
GPRS 3 Tx slots		27.99	28.11	28.09	29.50		23.73	23.85	23.83	25.24	
GPRS 4 Tx slots		26.04	26.01	26.06	28.00		23.04	23.01	23.06	25.00	
EDGE 1 Tx slot		26.36	26.15	26.34	28.00		17.36	17.15	17.34	19.00	
EDGE 2 Tx slots		24.29	24.19	24.21	25.50		16.29	16.19	16.21	19.50	
EDGE 3 Tx slots		21.76	21.95	21.95	23.00		17.52	17.69	17.69	18.74	
EDGE 4 Tx slots		19.27	19.24	19.31	20.50		16.27	16.24	16.31	17.50	

GSM1900		Burst Average Power (dBm)			Tune-up Limit		Frame Average Power (dBm)			Tune-up Limit	
TX Channel		512	561	610	(dBm)		512	561	610	(dBm)	
Frequency (MHz)		1850.2	1880	1909.8			1850.2	1880	1909.8		
GSM 1 Tx slot		27.60	27.65	27.48	28.50		18.60	18.65	18.48	19.50	
GPRS 1 Tx slot		27.62	27.68	27.51	28.50		18.62	18.68	18.51	19.50	
GPRS 2 Tx slots		25.41	25.45	25.38	26.50		19.41	19.45	19.36	20.50	
GPRS 3 Tx slots		22.92	23.03	23.08	24.00		16.66	16.77	16.82	19.74	
GPRS 4 Tx slots		21.33	21.25	21.05	22.50		16.33	16.25	16.05	19.50	
EDGE 1 Tx slot		24.23	24.01	23.97	25.00		15.23	15.01	14.97	16.00	
EDGE 2 Tx slots		22.22	21.98	21.86	22.50		16.22	15.98	15.86	16.50	
EDGE 3 Tx slots		19.66	19.86	19.81	20.00		15.42	15.60	15.55	15.74	
EDGE 4 Tx slots		17.87	17.85	17.68	19.00		14.87	14.85	14.68	16.00	

Band		WCDMA II			Tune-up Limit		WCDMA IV			Tune-up Limit		WCDMA V			Tune-up Limit	
TX Channel		5202	9400	9598	(dBm)		1312	1413	1513	(dBm)		4192	4192	4233	(dBm)	
Rx Channel		8652	9800	9938			1637	1638	1728			4327	4427	4458		
Frequency (MHz)		1852.4	1880	1907.6			1712.4	1732.6	1752.6			826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	18.78	18.76	18.65	20.00		17.94	17.96	17.92	19.00		23.10	23.22	23.15	24.00	
3GPP Rel 99	RMC 12.2Kbps	18.88	18.93	18.91	20.00		18.09	18.11	18.08	19.00		23.30	23.35	23.20	24.00	
3GPP Rel 6	HSDPA Subclass-1	17.99	17.67	18.03	19.00		17.06	16.99	16.86	18.00		21.88	22.02	21.88	23.00	
3GPP Rel 6	HSDPA Subclass-2	17.98	18.01	18.06	19.00		16.92	17.06	17.11	18.00		21.97	22.22	22.94	23.00	
3GPP Rel 6	HSDPA Subclass-3	17.48	17.48	17.47	18.50		16.47	16.53	16.48	17.50		21.55	21.75	21.66	22.50	
3GPP Rel 6	HSDPA Subclass-4	17.41	17.56	17.48	18.50		16.35	16.40	16.55	17.50		21.44	21.67	21.62	22.50	
3GPP Rel 8	DC-HSDPA Subclass-1	17.90	17.87	17.98	19.00		17.00	16.93	16.87	18.00		21.97	21.98	22.06	23.00	
3GPP Rel 8	DC-HSDPA Subclass-2	17.83	17.96	17.95	19.00		16.88	17.05	17.05	18.00		21.97	22.00	21.92	23.00	
3GPP Rel 8	DC-HSDPA Subclass-3	17.33	17.37	17.49	18.50		16.37	16.37	16.38	17.50		21.74	21.76	21.65	22.50	
3GPP Rel 8	DC-HSDPA Subclass-4	17.41	17.46	17.38	18.50		16.41	16.39	16.42	17.50		21.70	21.72	21.69	22.50	
3GPP Rel 6	HSUPA Subclass-1	17.89	18.01	18.03	19.00		16.99	17.03	17.15	18.00		21.88	21.57	22.03	23.00	
3GPP Rel 6	HSUPA Subclass-2	15.96	15.95	15.96	17.00		15.03	15.01	15.11	16.00		20.09	20.15	20.00	21.00	
3GPP Rel 6	HSUPA Subclass-3	16.97	16.97	17.05	18.00		16.04	16.01	16.15	17.00		20.99	21.06	20.96	22.00	
3GPP Rel 6	HSUPA Subclass-4	15.85	15.99	16.17	17.00		14.86	14.86	15.11	16.00		20.11	20.23	20.14	21.00	
3GPP Rel 6	HSUPA Subclass-5	16.04	16.08	16.10	19.00		17.01	16.91	17.14	18.00		21.94	22.08	21.99	23.00	

Band 2									
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				18700	18900	19100			
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	19.26	19.50	19.50	20.5	0	
20	QPSK	1	49	19.45	19.43	19.40			
20	QPSK	1	99	19.40	19.43	19.31			
20	QPSK	50	0	19.48	19.55	19.42			
20	QPSK	50	24	19.44	19.52	19.38	20.5	0	
20	QPSK	50	50	19.39	19.54	19.38			
20	QPSK	100	0	19.41	19.54	19.39			
20	16QAM	1	0	19.39	19.53	19.35			
20	16QAM	1	49	19.43	19.38	19.05	20.5	0	
20	16QAM	1	99	19.08	19.52	18.83			
20	16QAM	50	0	19.43	19.56	19.34			
20	16QAM	50	24	19.40	19.54	19.36			
20	16QAM	50	50	19.43	19.55	19.37	20.5	0	
20	16QAM	100	0	19.42	19.52	19.37			
20	64QAM	1	0	19.39	19.56	19.34			
20	64QAM	1	49	19.43	19.54	19.37	20.5	0	
20	64QAM	1	99	19.40	19.53	19.38			
20	64QAM	50	0	19.44	19.53	19.36			
20	64QAM	50	24	19.42	19.57	19.36			
20	64QAM	50	50	19.43	19.53	19.37	20.5	0	
20	64QAM	100	0	19.43	19.57	19.39			
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	0	19.16	19.41	19.47	20.5	0	
15	QPSK	1	37	19.38	19.56	19.35			
15	QPSK	1	74	19.34	19.34	19.26			
15	QPSK	36	0	19.41	19.46	19.33			
15	QPSK	36	20	19.35	19.42	19.33	20.5	0	
15	QPSK	36	39	19.29	19.47	19.34			
15	QPSK	75	0	19.37	19.47	19.32			
15	16QAM	1	0	19.35	19.50	19.27			
15	16QAM	1	37	19.37	19.29	19.01	20.5	0	
15	16QAM	1	74	19.02	19.42	18.74			
15	16QAM	36	0	19.40	19.50	19.26			
15	16QAM	36	20	19.35	19.49	19.30	20.5	0	
15	16QAM	36	39	19.39	19.50	19.32			
15	16QAM	75	0	19.32	19.43	19.32			
15	64QAM	1	0	19.32	19.48	19.28	20.5	0	
15	64QAM	1	37	19.40	19.50	19.30			
15	64QAM	1	74	19.31	19.50	19.32			
15	64QAM	36	0	19.40	19.43	19.31			
15	64QAM	36	20	19.36	19.52	19.27	20.5	0	
15	64QAM	36	39	19.40	19.46	19.29			
15	64QAM	75	0	19.33	19.50	19.36			
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855 <th>1880</th> <th>1905</th> <th></th> <th></th> <th></th>	1880	1905			
10	QPSK	1	0	19.21	19.41	19.46	20.5	0	
10	QPSK	1	25	19.39	19.53	19.37			
10	QPSK	1	49	19.34	19.33	19.25			
10	QPSK	25	0	19.42	19.47	19.39			
10	QPSK	25	12	19.35	19.48	19.34	20.5	0	
10	QPSK	25	25	19.32	19.51	19.33			
10	QPSK	50	0	19.31	19.46	19.33			
10	16QAM	1	0	19.31	19.46	19.27			
10	16QAM	1	25	19.37	19.30	18.95	20.5	0	
10	16QAM	1	49	19.05	19.49	18.76			
10	16QAM	25	0	19.35	19.46	19.24			
10	16QAM	25	12	19.36	19.44	19.28	20.5	0	
10	16QAM	25	25	19.38	19.49	19.33			
10	16QAM	50	0	19.33	19.44	19.30			
10	64QAM	1	0	19.33	19.53	19.30	20.5	0	
10	64QAM	1	25	19.38	19.46	19.30			
10	64QAM	1	49	19.30	19.46	19.35			
10	64QAM	25	0	19.38	19.48	19.29			
10	64QAM	25	12	19.37	19.47	19.27	20.5	0	
10	64QAM	25	25	19.38	19.43	19.29			
10	64QAM	50	0	19.36	19.51	19.31			
Channel				1852.5	18900	19175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1890	1907.5			
5	QPSK	1	0	19.20	19.41	19.47	20.5	0	
5	QPSK	1	12	19.38	19.52	19.35			
5	QPSK	1	24	19.33	19.39	19.21			
5	QPSK	12	0	19.39	19.46	19.37			
5	QPSK	12	7	19.41	19.42	19.31	20.5	0	
5	QPSK	12	13	19.34	19.46	19.31			
5	QPSK	25	0	19.33	19.50	19.31			
5	16QAM	1	0	19.33	19.45	19.26			
5	16QAM	1	12	19.33	19.34	18.95	20.5	0	
5	16QAM	1	24	19.02	19.47	18.73			
5	16QAM	12	0	19.35	19.51	19.30			
5	16QAM	12	7	19.35	19.50	19.28	20.5	0	
5	16QAM	12	13	19.38	19.51	19.29			
5	16QAM	25	0	19.34	19.44	19.30			
5	64QAM	1	0	19.33	19.47	19.24	20.5	0	
5	64QAM	1	12	19.35	19.49	19.27			
5	64QAM	1	24	19.35	19.48	19.33			
5	64QAM	12	0	19.35	19.49	19.33			
5	64QAM	12	7	19.38	19.49	19.28	20.5	0	
5	64QAM	12	13	19.37	19.46	19.29			
5	64QAM	25	0	19.34	19.48	19.35			
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1851.5	1880	1908.5			
3	QPSK	1	0	19.19	19.40	19.42	20.5	0	
3	QPSK	1	8	19.40	19.52	19.35			
3	QPSK	1	14	19.33	19.40	19.24			
3	QPSK	8	0	19.44	19.49	19.35			
3	QPSK	8	4	19.37	19.47	19.32	20.5	0	
3	QPSK	8	7	19.36	19.51	19.30			
3	QPSK	15	0	19.36	19.48	19.35			
3	16QAM	1	0	19.29	19.50	19.27			
3	16QAM	1	8	19.39	19.34	19.02	20.5	0	
3	16QAM	1	14	18.99	19.43	18.75			
3	16QAM	8	0	19.35	19.48	19.28			
3	16QAM	8	4	19.34	19.50	19.26			
3	16QAM	8	7	19.33	19.52	19.27	20.5	0	
3	16QAM	15	0	19.39	19.48	19.33			
3	64QAM	1	0	19.29	19.50	19.27			
3	64QAM	1	8	19.34	19.49	19.29			
3	64QAM	1	14	19.35	19.46	19.35	20.5	0	
3	64QAM	8	0	19.40	19.46	19.29			
3	64QAM	8	4	19.33	19.47	19.33			
3	64QAM	8	7	19.35	19.45	19.28			
Channel				19097	18900	19163	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18907	18900	19093			
1.4	QPSK	1	0	19.21	19.46	19.47	20.5	0	
1.4	QPSK	1	3	19.38	19.55	19.35			
1.4	QPSK	1	5	19.30	19.34	19.24			
1.4	QPSK	3	0	19.39	19.51	19.35			
1.4	QPSK	3	1	19.36	19.44	19.30	20.5	0	
1.4	QPSK	3	3	19.35	19.49	19.30			
1.4	QPSK	6	0	19.37	19.51	19.35			
1.4	16QAM	1	0	19.35	19.48	19.32			
1.4	16QAM	1	3	19.40	19.28	18.96	20.5	0	
1.4	16QAM	1	5	19.05	19.46	18.95			
1.4	16QAM	3	0	19.33	19.52	19.26			
1.4	16QAM	3	1	19.34	19.47	19.26			
1.4	16QAM	3	3	19.35	19.50	19.30	20.5	0	
1.4	16QAM	6	0	19.33	19.44	19.28			
1.4	64QAM	1	0	19.31	19.46	19.26	20.5	0	
1.4	64QAM	1	3	19.38	19.46	19.29			
1.4	64QAM	1	5	19.35	19.47	19.28			
1.4	64QAM	3	0	19.41	19.49	19.26			
1.4	64QAM	3	1	19.38	19.53	19.32	20.5	0	
1.4	64QAM	3	3	19.34	19.49	19.30			
1.4	64QAM	6	0	19.38	19.52	19.32			
1.4	64QAM	6	1	19.39	19.53	19.32			

Band 7								
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				20850	21100	21350	18.5	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	16.93	17.07	17.02	18.5	0
20	QPSK	1	49	17.45	17.37	17.40		
20	QPSK	1	99	17.27	17.40	17.13		
20	QPSK	50	0	17.41	17.34	17.35		
20	QPSK	50	24	17.33	17.31	17.33	18.5	0
20	QPSK	50	50	17.36	17.30	17.30		
20	QPSK	100	0	17.36	17.31	17.34		
20	16QAM	1	0	16.73	16.91	16.71		
20	16QAM	1	49	17.27	17.03	16.95	18.5	0
20	16QAM	1	99	16.82	16.74	16.96		
20	16QAM	50	0	17.33	17.32	17.40		
20	16QAM	50	24	17.44	17.44	17.44		
20	16QAM	50	50	17.36	17.43	17.43	18.5	0
20	16QAM	100	0	17.35	17.33	17.38		
20	64QAM	1	0	17.12	17.11	16.90		
20	64QAM	1	49	17.22	16.81	17.04		
20	64QAM	1	99	16.80	16.92	16.93	18.5	0
20	64QAM	50	0	17.32	17.35	17.40		
20	64QAM	50	24	17.41	17.42	17.41		
20	64QAM	50	50	17.43	17.44	17.39		
20	64QAM	100	0	17.22	17.44	17.38	18.5	0
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	16.87	17.01	16.98	18.5	0
15	QPSK	1	37	17.40	17.34	17.35		
15	QPSK	1	74	17.22	17.30	17.07		
15	QPSK	36	0	17.35	17.25	17.27		
15	QPSK	36	20	17.27	17.22	17.28	18.5	0
15	QPSK	36	39	17.31	17.21	17.22		
15	QPSK	75	0	17.31	17.21	17.24		
15	16QAM	1	0	16.67	16.82	16.64		
15	16QAM	1	37	17.17	16.93	16.88	18.5	0
15	16QAM	1	74	16.74	16.70	16.87		
15	16QAM	36	0	17.29	17.24	17.32		
15	16QAM	36	20	17.36	17.38	17.38		
15	16QAM	36	39	17.29	17.30	17.40	18.5	0
15	16QAM	75	0	17.31	17.30	17.29		
15	64QAM	1	0	17.03	17.06	16.83		
15	64QAM	1	37	17.15	16.71	16.96		
15	64QAM	1	74	16.74	16.85	16.90	18.5	0
15	64QAM	36	0	17.29	17.30	17.35		
15	64QAM	36	20	17.31	17.36	17.35		
15	64QAM	36	39	17.38	17.41	17.30		
15	64QAM	75	0	17.17	17.38	17.28	18.5	0
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	16.89	16.97	16.96	18.5	0
10	QPSK	1	25	17.38	17.34	17.35		
10	QPSK	1	49	17.20	17.37	17.04		
10	QPSK	25	0	17.31	17.31	17.30		
10	QPSK	25	12	17.23	17.21	17.24	18.5	0
10	QPSK	25	25	17.32	17.26	17.27		
10	QPSK	50	0	17.32	17.21	17.28		
10	16QAM	1	0	16.63	16.85	16.62		
10	16QAM	1	25	17.18	16.98	16.89	18.5	0
10	16QAM	1	49	16.75	16.65	16.88		
10	16QAM	25	0	17.23	17.22	17.32		
10	16QAM	25	12	17.36	17.41	17.39		
10	16QAM	25	25	17.29	17.40	17.36	18.5	0
10	16QAM	50	0	17.30	17.27	17.33		
10	64QAM	1	0	17.08	17.04	16.82		
10	64QAM	1	25	17.17	16.75	16.86		
10	64QAM	1	49	16.74	16.86	16.90	18.5	0
10	64QAM	25	0	17.29	17.28	17.31		
10	64QAM	25	12	17.32	17.37	17.32		
10	64QAM	25	25	17.36	17.35	17.33		
10	64QAM	50	0	17.17	17.37	17.32	18.5	0
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	16.86	17.01	16.97	18.5	0
5	QPSK	1	12	17.39	17.31	17.34		
5	QPSK	1	24	17.21	17.33	17.07		
5	QPSK	12	0	17.31	17.29	17.30		
5	QPSK	12	7	17.28	17.23	17.25	18.5	0
5	QPSK	12	13	17.29	17.22	17.26		
5	QPSK	25	0	17.26	17.22	17.27		
5	16QAM	1	0	16.68	16.81	16.61		
5	16QAM	1	12	17.20	17.00	16.87	18.5	0
5	16QAM	1	24	16.79	16.68	16.92		
5	16QAM	12	0	17.25	17.25	17.30		
5	16QAM	12	7	17.38	17.38	17.35		
5	16QAM	12	13	17.33	17.37	17.38	18.5	0
5	16QAM	25	0	17.29	17.23	17.31		
5	64QAM	1	0	17.08	17.05	16.85		
5	64QAM	1	12	17.14	16.75	16.94		
5	64QAM	1	24	16.71	16.86	16.84	18.5	0
5	64QAM	12	0	17.23	17.27	17.32		
5	64QAM	12	7	17.35	17.38	17.35		
5	64QAM	12	13	17.34	17.40	17.36		
5	64QAM	25	0	17.13	17.34	17.31	18.5	0

Band 66								
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				132072	132322	132572	19.5	0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	18.57	18.74	18.68	19.5	0
20	QPSK	1	49	18.66	18.90	18.75		
20	QPSK	1	99	18.69	18.79	18.74		
20	QPSK	50	0	18.66	18.78	18.77		
20	QPSK	50	24	18.64	18.77	18.75	19.5	0
20	QPSK	50	50	18.62	18.75	18.75		
20	QPSK	100	0	18.71	18.75	18.73		
20	16QAM	1	0	18.47	18.58	18.52		
20	16QAM	1	49	18.76	18.79	18.74	19.5	0
20	16QAM	1	99	18.78	18.77	18.43		
20	16QAM	50	0	18.68	18.74	18.77		
20	16QAM	50	24	18.76	18.78	18.75		
20	16QAM	50	50	18.75	18.78	18.79	19.5	0
20	16QAM	100	0	18.75	18.79	18.75		
20	64QAM	1	0	18.16	18.78	18.32		
20	64QAM	1	49	18.44	18.78	18.35		
20	64QAM	1	99	18.71	18.59	18.43	19.5	0
20	64QAM	50	0	18.76	18.74	18.74		
20	64QAM	50	24	18.76	18.79	18.75		
20	64QAM	50	50	18.71	18.79	18.79		
20	64QAM	100	0	18.70	18.77	18.79	19.5	0
Channel				132047	132322	132597		
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	18.49	18.65	18.63	19.5	0
15	QPSK	1	37	18.61	18.73	18.69		
15	QPSK	1	74	18.65	18.73	18.68		
15	QPSK	36	0	18.57	18.73	18.70		
15	QPSK	36	20	18.57	18.67	18.72	19.5	0
15	QPSK	36	39	18.55	18.71	18.72		
15	QPSK	75	0	18.62	18.71	18.70		
15	16QAM	1	0	18.43	18.55	18.42		
15	16QAM	1	37	18.68	18.69	18.69	19.5	0
15	16QAM	1	74	18.68	18.72	18.37		
15	16QAM	36	0	18.64	18.69	18.69		
15	16QAM	36	20	18.67	18.69	18.70		
15	16QAM	36	39	18.66	18.71	18.74	19.5	0
15	16QAM	75	0	18.68	18.74	18.66		
15	64QAM	1	0	18.08	18.73	18.24		
15	64QAM	1	37	18.36	18.70	18.27		
15	64QAM	1	74	18.66	18.53	18.38	19.5	0
15	64QAM	36	0	18.67	18.69	18.70		
15	64QAM	36	20	18.70	18.71	18.70		
15	64QAM	36	39	18.67	18.71	18.72		
15	64QAM	75	0	18.67	18.72	18.70	19.5	0
Channel				132022	132322	132622		
Frequency (MHz)				1715	1745	1772.5	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	18.49	18.67	18.64	19.5	0
10	QPSK	1	25	18.60	18.74	18.73		
10	QPSK	1	49	18.68	18.74	18.67		
10	QPSK	25	0	18.61	18.73	18.74		
10	QPSK	25	12	18.61	18.69	18.71	19.5	0
10	QPSK	25	25	18.57	18.66	18.72		
10	QPSK	50	0	18.64	18.68	18.64		
10	16QAM	1	0	18.41	18.54	18.47		
10	16QAM	1	25	18.71	18.74	18.65	19.5	0
10	16QAM	1	49	18.72	18.68	18.35		
10	16QAM	25	0	18.63	18.67	18.73		
10	16QAM	25	12	18.69	18.70	18.65		
10	16QAM	25	25	18.67	18.73	18.72	19.5	0
10	16QAM	50	0	18.68	18.72	18.72		
10	64QAM	1	0	18.08	18.69	18.26		
10	64QAM	1	25	18.36	18.75	18.30		
10	64QAM	1	49	18.68	18.56	18.39	19.5	0
10	64QAM	25	0	18.70	18.66	18.67		
10	64QAM	25	12	18.66	18.69	18.65		
10	64QAM	25	25	18.66	18.74	18.72		
10	64QAM	50	0	18.64	18.64	18.64	19.5	0
Channel				131987	132322	132657		
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	18.48	18.65	18.63	19.5	0
5	QPSK	1	12	18.61	18.78	18.72		
5	QPSK	1	24	18.66	18.69	18.71		
5	QPSK	12	0	18.60	18.68	18.68		
5	QPSK	12	7	18.61	18.69	18.67	19.5	0
5	QPSK	12	13	18.58	18.71	18.66		
5	QPSK	25	0	18.64	18.70	18.64		
5	16QAM	1	0	18.49	18.73	18.69		
5	16QAM	1	12	18.67	18.74	18.70	19.5	0
5	16QAM	1	24	18.68	18.74	18.35		
5	16QAM	12	0	18.61	18.68	18.72		
5	16QAM	12	7	18.66	18.74	18.67		
5	16QAM	12	13	18.70	18.72	18.72	19.5	0
5	16QAM	25	0	18.66	18.69	18.69		
5	64QAM	1	0	18.08	18.69	18.22		
5	64QAM	1	12	18.36	18.71	18.27		
5	64QAM	1	24	18.66	18.70	18.36	19.5	0
5	64QAM	12	0	18.70	18.66	18.70		
5	64QAM	12	7	18.68	18.73	18.68		
5	64QAM	12	13	18.67	18.72	18.69		
5	64QAM	25	0	18.66	18.74	18.74	19.5	0
Channel				131987	132322	132657		
Frequency (MHz)				1711.5	1745	1778.5	Tune-up limit (dBm)	MPR (dB)
3	QPSK	1	0	18.50	18.67	18.59	19.5	0
3	QPSK	1	8	18.60	18.75	18.70		
3	QPSK	1	14	18.65	18.69	18.71		
3	QPSK	8	0	18.61	18.71	18.65		
3	QPSK	8	4	18.56	18.71	18.65	19.5	0
3	QPSK	8	7	18.53	18.65	18.72		
3	QPSK	15	0	18.61	18.67	18.65		
3	16QAM	1	0	18.43	18.55	18.44		
3	16QAM	1	8	18.69	18.74	18.66	19.5	0
3	16QAM	1	14	18.73	18.72	18.34		
3	16QAM	8	0	18.61	18.66	18.69		
3	16QAM	8	4	18.72	18.71	18.67		
3	16QAM	8	7	18.67	18.74	18.72	19.5	0
3	16QAM	15	0	18.69	18.73	18.72		
3	64QAM	1	0	18.06	18.69	18.29		
3	64QAM	1	8	18.41	18.73	18.28		
3	64QAM	1	14	18.63	18.49	18.35	19.5	0
3	64QAM	8	0	18.68	18.70	18.69		
3	64QAM	8	4	18.69	18.75	18.69		
3	64QAM	8	7	18.62	18.75	18.71		
3	64QAM	15	0	18.66	18.72	18.75	19.5	0
Channel				131999	132322	132655		
Frequency (MHz)				1710.7	1745	1779.3	Tune-up limit (dBm)	MPR (dB)
1.4	QPSK	1	0	18.53	18.71	18.60	19.5	0
1.4	QPSK	1	3	18.59	18.74	18.69		
1.4	QPSK	1	5	18.64	18.73	18.68		
1.4	QPSK	3	0	18.57	18.71	18.71		
1.4	QPSK	3	1	18.60	18.69	18.67	19.5	0
1.4	QPSK	3	3	18.53	18.66	18.67		
1.4	QPSK	6	0	18.62	18.65	18.69		
1.4	QPSK	1	0	18.40	18.51	18.47		
1.4	16QAM	1	0	18.70	18.72	18.68	19.5	0
1.4	16QAM	1	5	18.72	18.65	18.37		
1.4	16QAM	3	0	18.58	18.67	18.68		
1.4	16QAM	3	1	18.67	18.68	18.65		
1.4	16QAM	3	3	18.65	18.71	18.71	19.5	0
1.4	16QAM	6	0	18.71	18.73	18.71		
1.4	64QAM	1	0	18.10	18.68	18.23		
1.4	64QAM	1	3	18.40	18.74	18.31		
1.4	64QAM	1	5	18.65	18.55	18.37	19.5	0
1.4	64QAM	3	0	18.70	18.72	18.66		
1.4	64QAM	3	1	18.73	18.72	18.69		
1.4	64QAM	3	3	18.61	18.76	18.71		
1.4	64QAM	6	0	18.67	18.73	18.75	19.5	0

Band 38									
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				37850	38000	38150	21	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	19.53	19.59	19.63	21	0	
20	QPSK	1	49	19.95	20.00	19.92			
20	QPSK	1	99	19.94	19.93	19.86			
20	QPSK	50	0	19.90	19.94	19.86	21	0	
20	QPSK	50	24	19.89	19.84	19.84			
20	QPSK	50	50	19.80	19.89	19.81			
20	QPSK	100	0	19.81	19.87	19.85	21	0	
20	16QAM	1	0	19.26	19.26	19.25			
20	16QAM	1	49	19.81	19.64	19.66			
20	16QAM	1	99	19.63	19.39	19.40	21	0	
20	16QAM	50	0	19.80	19.81	19.72			
20	16QAM	50	24	19.84	19.83	19.70			
20	16QAM	50	50	19.79	19.88	19.90	21	0	
20	16QAM	100	0	19.95	19.85	19.86			
20	64QAM	1	0	19.66	19.54	19.73			
20	64QAM	1	49	19.95	19.82	19.84	21	0	
20	64QAM	1	99	19.71	19.67	19.68			
20	64QAM	50	0	19.81	19.74	19.76			
20	64QAM	50	24	19.95	19.85	19.88	21	0	
20	64QAM	50	50	19.91	19.89	19.92			
20	64QAM	100	0	19.96	19.86	19.88			
Channel				37825	38000	38175	21	0	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	19.44	19.55	19.56	21	0	
15	QPSK	1	37	19.90	19.96	19.88			
15	QPSK	1	74	19.84	19.85	19.81			
15	QPSK	36	0	19.80	19.89	19.78	21	0	
15	QPSK	36	20	19.81	19.75	19.77			
15	QPSK	36	39	19.70	19.86	19.75			
15	QPSK	75	0	19.72	19.81	19.76	21	0	
15	16QAM	1	0	19.20	19.22	19.19			
15	16QAM	1	37	19.75	19.54	19.56			
15	16QAM	1	74	19.55	19.36	19.32	21	0	
15	16QAM	36	0	19.72	19.76	19.62			
15	16QAM	36	20	19.77	19.75	19.61			
15	16QAM	36	39	19.69	19.83	19.80	21	0	
15	16QAM	75	0	19.88	19.80	19.81			
15	64QAM	1	0	19.62	19.50	19.70			
15	64QAM	1	37	19.87	19.73	19.77	21	0	
15	64QAM	1	74	19.65	19.62	19.61			
15	64QAM	36	0	19.71	19.68	19.66			
15	64QAM	36	20	19.89	19.75	19.82	21	0	
15	64QAM	36	39	19.86	19.82	19.83			
15	64QAM	75	0	19.92	19.81	19.79			
Channel				37800	38000	38200	21	0	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	19.45	19.53	19.56	21	0	
10	QPSK	1	25	19.91	19.98	19.86			
10	QPSK	1	49	19.84	19.83	19.78			
10	QPSK	25	0	19.83	19.87	19.83	21	0	
10	QPSK	25	12	19.79	19.74	19.81			
10	QPSK	25	25	19.74	19.85	19.75			
10	QPSK	50	0	19.73	19.80	19.75	21	0	
10	16QAM	1	0	19.17	19.20	19.20			
10	16QAM	1	25	19.73	19.60	19.60			
10	16QAM	1	49	19.58	19.31	19.30	21	0	
10	16QAM	25	0	19.74	19.76	19.62			
10	16QAM	25	12	19.81	19.78	19.66			
10	16QAM	25	25	19.74	19.81	19.86	21	0	
10	16QAM	50	0	19.87	19.81	19.81			
10	64QAM	1	0	19.63	19.50	19.66			
10	64QAM	1	25	19.92	19.76	19.81	21	0	
10	64QAM	1	49	19.67	19.64	19.59			
10	64QAM	25	0	19.75	19.67	19.72			
10	64QAM	25	12	19.87	19.81	19.79	21	0	
10	64QAM	25	25	19.88	19.80	19.86			
10	64QAM	50	0	19.89	19.82	19.81			
Channel				37775	38000	38225	21	0	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	19.46	19.54	19.53	21	0	
5	QPSK	1	12	19.91	19.94	19.88			
5	QPSK	1	24	19.86	19.84	19.78			
5	QPSK	12	0	19.85	19.89	19.78	21	0	
5	QPSK	12	7	19.86	19.81	19.81			
5	QPSK	12	13	19.71	19.79	19.78			
5	QPSK	25	0	19.74	19.81	19.80	21	0	
5	16QAM	1	0	19.18	19.17	19.20			
5	16QAM	1	12	19.77	19.61	19.60			
5	16QAM	1	24	19.58	19.29	19.36	21	0	
5	16QAM	12	0	19.71	19.73	19.64			
5	16QAM	12	7	19.76	19.80	19.65			
5	16QAM	12	13	19.72	19.80	19.81	21	0	
5	16QAM	25	0	19.88	19.77	19.82			
5	64QAM	1	0	19.57	19.49	19.68			
5	64QAM	1	12	19.91	19.73	19.80	21	0	
5	64QAM	1	24	19.62	19.58	19.61			
5	64QAM	12	0	19.77	19.67	19.69			
5	64QAM	12	7	19.90	19.77	19.82	21	0	
5	64QAM	12	13	19.81	19.86	19.86			
5	64QAM	25	0	19.92	19.76	19.82			

Reduced Power Mode for Hotspot on

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	251.2	189.4	251.8		251.2	189.4	251.8	
Frequency (MHz)	32.41	32.43	32.30	33.00	23.41	23.43	23.30	24.00
GSM 1 Tx slot	32.44	32.45	32.35	33.00	23.44	23.45	23.35	24.00
GPRS 2 Tx slots	30.27	30.37	30.29	31.50	24.27	24.37	24.29	25.50
GPRS 3 Tx slots	27.99	28.11	28.09	29.50	23.73	23.85	23.83	25.24
GPRS 4 Tx slots	26.04	26.01	26.06	28.00	23.04	23.01	23.06	25.00
EDGE 1 Tx slot	26.36	26.15	26.34	28.00	17.36	17.15	17.34	19.00
EDGE 2 Tx slots	24.29	24.19	24.21	25.50	18.29	18.19	18.21	19.50
EDGE 3 Tx slots	21.78	21.95	21.95	23.00	17.52	17.69	17.69	18.74
EDGE 4 Tx slots	19.27	19.24	19.31	20.50	16.27	16.24	16.31	17.50

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	27.80	27.65	27.48	28.50	18.60	18.65	18.48	19.50
GSM 1 Tx slot	27.82	27.68	27.51	28.50	18.62	18.68	18.51	19.50
GPRS 2 Tx slots	25.41	25.45	25.38	26.50	19.41	19.45	19.38	20.50
GPRS 3 Tx slots	22.92	23.03	23.08	24.00	18.66	18.77	18.82	19.74
GPRS 4 Tx slots	21.33	21.25	21.05	22.50	18.33	18.25	18.05	19.50
EDGE 1 Tx slot	24.23	24.01	23.97	25.00	15.23	15.01	14.97	16.00
EDGE 2 Tx slots	22.22	21.98	21.86	22.50	16.22	15.98	15.86	16.50
EDGE 3 Tx slots	19.68	19.86	19.81	20.00	15.42	15.60	15.55	15.74
EDGE 4 Tx slots	17.67	17.85	17.68	19.00	14.87	14.85	14.68	16.00

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		5262	8400	9638		1312	1413	1513	
Rx Channel		9462	9920	9038		1527	1638	1738	
Frequency (MHz)		1852.4	1880	1907.8		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	18.78	18.76	18.65	20.00	17.94	17.96	17.92	18.00
3GPP Rel 99	RM-C 12.2Kbps	18.88	18.93	18.91	20.00	18.09	18.11	18.08	18.00
3GPP Rel 6	HSDPA Subtest-1	17.99	17.87	18.03	19.00	17.06	16.99	16.86	18.00
3GPP Rel 6	HSDPA Subtest-2	17.58	18.01	18.06	19.00	16.92	17.06	17.11	18.00
3GPP Rel 6	HSDPA Subtest-3	17.48	17.48	17.47	18.50	16.47	16.53	16.48	17.50
3GPP Rel 6	HSDPA Subtest-4	17.41	17.56	17.48	18.50	16.35	16.40	16.55	17.50
3GPP Rel 6	DC-HSDPA Subtest-1	17.90	17.87	17.98	19.00	17.00	16.93	16.87	18.00
3GPP Rel 6	DC-HSDPA Subtest-2	17.83	17.86	17.95	19.00	16.88	17.05	17.05	18.00
3GPP Rel 6	DC-HSDPA Subtest-3	17.33	17.37	17.49	18.50	16.37	16.37	16.38	17.50
3GPP Rel 6	DC-HSDPA Subtest-4	17.41	17.46	17.38	18.50	16.41	16.39	16.42	17.50
3GPP Rel 6	HSUPA Subtest-1	17.89	18.01	18.03	19.00	16.99	17.03	17.15	18.00
3GPP Rel 6	HSUPA Subtest-2	15.96	15.95	15.86	17.00	15.03	15.01	15.11	16.00
3GPP Rel 6	HSUPA Subtest-3	16.97	16.97	17.05	18.00	16.04	16.01	16.15	17.00
3GPP Rel 6	HSUPA Subtest-4	15.85	15.89	16.17	17.00	14.86	14.96	15.11	16.00
3GPP Rel 6	HSUPA Subtest-5	18.04	18.08	18.10	19.00	17.01	16.91	17.14	18.00

Band 2									
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				18700	18800	19100			
Frequency (MHz)				18600	18800	19000			
20	QPSK	1	0	19.26	19.50	19.50	20.5	0	
20	QPSK	1	49	19.45	19.56	19.40			
20	QPSK	1	99	19.40	19.43	19.31			
20	QPSK	50	0	19.48	19.55	19.42			
20	QPSK	50	24	19.44	19.52	19.38	20.5	0	
20	QPSK	50	50	19.39	19.54	19.38			
20	QPSK	100	0	19.41	19.54	19.39			
20	16QAM	1	0	19.39	19.53	19.35			
20	16QAM	1	49	19.43	19.38	18.05	20.5	0	
20	16QAM	1	99	19.08	19.52	18.83			
20	16QAM	50	0	19.43	19.56	19.34			
20	16QAM	50	24	19.40	19.54	19.36			
20	16QAM	50	50	19.43	19.55	19.37	20.5	0	
20	16QAM	100	0	19.42	19.52	19.37			
20	64QAM	1	0	19.39	19.56	19.34			
20	64QAM	1	49	19.43	19.54	19.37			
20	64QAM	1	99	19.40	19.53	19.38	20.5	0	
20	64QAM	50	0	19.44	19.53	19.36			
20	64QAM	50	24	19.42	19.57	19.36			
20	64QAM	50	50	19.43	19.53	19.37			
20	64QAM	100	0	19.43	19.57	19.39	20.5		
Channel				18675	18900	19125			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	0	19.16	19.41	19.47	20.5	0	
15	QPSK	1	37	19.38	19.56	19.35			
15	QPSK	1	74	19.34	19.34	19.26			
15	QPSK	36	0	19.41	19.46	19.33			
15	QPSK	36	20	19.35	19.42	19.33	20.5	0	
15	QPSK	36	39	19.29	19.47	19.34			
15	QPSK	75	0	19.37	19.47	19.32			
15	16QAM	1	0	19.35	19.50	19.27			
15	16QAM	1	37	19.37	19.29	19.01	20.5	0	
15	16QAM	1	74	19.02	19.42	18.74			
15	16QAM	36	0	19.40	19.50	19.26			
15	16QAM	36	20	19.35	19.49	19.30			
15	16QAM	36	39	19.39	19.50	19.32	20.5	0	
15	16QAM	75	0	19.32	19.43	19.32			
15	64QAM	1	0	19.32	19.48	19.28			
15	64QAM	1	37	19.40	19.50	19.30			
15	64QAM	1	74	19.31	19.50	19.32	20.5	0	
15	64QAM	36	0	19.40	19.43	19.31			
15	64QAM	36	20	19.36	19.52	19.27			
15	64QAM	36	39	19.40	19.46	19.29			
15	64QAM	75	0	19.33	19.50	19.36	20.5	0	
Channel				18650	18900	19150			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	0	19.21	19.41	19.46	20.5	0	
10	QPSK	1	25	19.39	19.53	19.37			
10	QPSK	1	49	19.34	19.34	19.25			
10	QPSK	25	0	19.42	19.47	19.39			
10	QPSK	25	12	19.35	19.48	19.33	20.5	0	
10	QPSK	25	25	19.32	19.51	19.34			
10	QPSK	50	0	19.31	19.46	19.33			
10	16QAM	1	0	19.31	19.46	19.27			
10	16QAM	1	25	19.37	19.30	18.95	20.5	0	
10	16QAM	1	49	19.05	19.49	18.76			
10	16QAM	25	0	19.35	19.46	19.24			
10	16QAM	25	12	19.36	19.44	19.28			
10	16QAM	25	25	19.38	19.49	19.33	20.5	0	
10	16QAM	50	0	19.33	19.44	19.30			
10	64QAM	1	0	19.33	19.53	19.30			
10	64QAM	1	25	19.38	19.46	19.30			
10	64QAM	1	49	19.30	19.46	19.35	20.5	0	
10	64QAM	25	0	19.38	19.48	19.29			
10	64QAM	25	12	19.37	19.47	19.27			
10	64QAM	25	25	19.38	19.43	19.29			
10	64QAM	50	0	19.36	19.51	19.31	20.5	0	
Channel				18625	18900	19175			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	0	19.20	19.41	19.47	20.5	0	
5	QPSK	1	12	19.38	19.52	19.35			
5	QPSK	1	24	19.33	19.39	19.21			
5	QPSK	12	0	19.39	19.46	19.37			
5	QPSK	12	7	19.41	19.42	19.31	20.5	0	
5	QPSK	12	13	19.34	19.46	19.31			
5	QPSK	25	0	19.33	19.50	19.31			
5	16QAM	1	0	19.33	19.45	19.26			
5	16QAM	1	12	19.33	19.34	18.95	20.5	0	
5	16QAM	1	24	19.02	19.47	18.73			
5	16QAM	12	0	19.35	19.51	19.30			
5	16QAM	12	7	19.35	19.50	19.28			
5	16QAM	12	13	19.38	19.51	19.29	20.5	0	
5	16QAM	25	0	19.34	19.44	19.30			
5	64QAM	1	0	19.33	19.47	19.24			
5	64QAM	1	12	19.35	19.48	19.27			
5	64QAM	1	24	19.35	19.49	19.33	20.5	0	
5	64QAM	12	0	19.35	19.49	19.33			
5	64QAM	12	7	19.38	19.49	19.26			
5	64QAM	12	13	19.37	19.46	19.29			
5	64QAM	25	0	19.34	19.48	19.35	20.5		
Channel				18615	18900	19185			
Frequency (MHz)				1851.5	1880	1908.5			
3	QPSK	1	0	19.19	19.40	19.42	20.5	0	
3	QPSK	1	8	19.40	19.52	19.35			
3	QPSK	1	14	19.33	19.40	19.24			
3	QPSK	8	0	19.44	19.49	19.35			
3	QPSK	8	4	19.37	19.32	19.22	20.5	0	
3	QPSK	8	7	19.36	19.51	19.30			
3	QPSK	15	0	19.36	19.48	19.35			
3	16QAM	1	0	19.29	19.50	19.27			
3	16QAM	1	8	19.39	19.34	19.02	20.5	0	
3	16QAM	1	14	18.99	19.43	18.75			
3	16QAM	8	0	19.35	19.48	19.28			
3	16QAM	8	4	19.34	19.50	19.26			
3	16QAM	8	7	19.33	19.52	19.27	20.5	0	
3	16QAM	15	0	19.30	19.48	19.33			
3	64QAM	1	0	19.29	19.50	19.27			
3	64QAM	1	8	19.34	19.49	19.29			
3	64QAM	1	14	19.35	19.46	19.35	20.5	0	
3	64QAM	8	0	19.40	19.46	19.29			
3	64QAM	8	4	19.33	19.47	19.33			
3	64QAM	8	7	19.35	19.45	19.28			
3	64QAM	15	0	19.40	19.53	19.36	20.5		
Channel				18597	18900	19193			
Frequency (MHz)				1850.7	1880	1909.3			
1.4	QPSK	1	0	19.21	19.46	19.47	20.5	0	
1.4	QPSK	1	3	19.38	19.55	19.35			
1.4	QPSK	1	5	19.30	19.34	19.24			
1.4	QPSK	3	0	19.39	19.51	19.35			
1.4	QPSK	3	1	19.36	19.44	19.30	20.5	0	
1.4	QPSK	3	3	19.35	19.49	19.30			
1.4	QPSK	6	0	19.37	19.51	19.35			
1.4	16QAM	1	0	19.35	19.48	19.32			
1.4	16QAM	1	3	19.40	19.25	18.95	20.5	0	
1.4	16QAM	1	5	19.05	19.46	18.80			
1.4	16QAM	3	0	19.33	19.52	19.26			
1.4	16QAM	3	1	19.34	19.47	19.26			
1.4	16QAM	3	3	19.35	19.50	19.30	20.5	0	
1.4	16QAM	6	0	19.33	19.44	19.28			
1.4	64QAM	1	0	19.31	19.46	19.26			
1.4	64QAM	1	3	19.38	19.46	19.29			
1.4	64QAM	1	5	19.35	19.47	19.29	20.5	0	
1.4	64QAM	3	0	19.41	19.49	19.26			
1.4	64QAM	3	1	19.38	19.53	19.32			
1.4	64QAM	3	3	19.34	19.49	19.30			
1.4	64QAM	6	0	19.38	19.52	19.32	20.5		

Band 7									
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				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	16.93	17.07	17.02	18.5	0	
20	QPSK	1	49	17.45	17.37	17.40			
20	QPSK	1	99	17.27	17.40	17.13			
20	QPSK	50	0	17.41	17.34	17.35	18.5	0	
20	QPSK	50	24	17.33	17.31	17.33			
20	QPSK	50	50	17.36	17.30	17.30			
20	QPSK	100	0	17.36	17.31	17.34	18.5	0	
20	16QAM	1	0	16.73	16.91	16.71			
20	16QAM	1	49	17.27	17.03	16.95			
20	16QAM	1	99	16.82	16.74	16.97	18.5	0	
20	16QAM	50	0	17.33	17.32	17.40			
20	16QAM	50	24	17.44	17.44	17.44			
20	16QAM	50	50	17.36	17.43	17.43	18.5	0	
20	16QAM	100	0	17.35	17.33	17.38			
20	64QAM	1	0	17.12	17.11	16.90			
20	64QAM	1	49	17.22	16.81	17.04	18.5	0	
20	64QAM	1	99	16.80	16.92	16.93			
20	64QAM	50	0	17.32	17.35	17.40			
20	64QAM	50	24	17.41	17.42	17.41	18.5	0	
20	64QAM	50	50	17.43	17.44	17.39			
20	64QAM	100	0	17.22	17.44	17.38			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	16.87	17.01	16.98	18.5	0	
15	QPSK	1	37	17.40	17.34	17.35			
15	QPSK	1	74	17.22	17.30	17.07			
15	QPSK	36	0	17.35	17.25	17.27	18.5	0	
15	QPSK	36	20	17.27	17.22	17.28			
15	QPSK	36	39	17.31	17.21	17.22			
15	QPSK	75	0	17.31	17.21	17.24	18.5	0	
15	16QAM	1	0	16.67	16.82	16.64			
15	16QAM	1	37	17.17	16.93	16.88			
15	16QAM	1	74	16.74	16.70	16.87	18.5	0	
15	16QAM	36	0	17.29	17.24	17.32			
15	16QAM	36	20	17.36	17.34	17.38			
15	16QAM	36	39	17.28	17.39	17.40	18.5	0	
15	16QAM	75	0	17.31	17.30	17.29			
15	64QAM	1	0	17.03	17.06	16.83			
15	64QAM	1	37	17.15	16.71	16.96	18.5	0	
15	64QAM	1	74	16.74	16.85	16.90			
15	64QAM	36	0	17.29	17.30	17.35			
15	64QAM	36	20	17.31	17.36	17.35	18.5	0	
15	64QAM	36	39	17.39	17.41	17.30			
15	64QAM	75	0	17.17	17.38	17.28			
Channel				20890	21100	21490	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	16.89	16.97	16.96	18.5	0	
10	QPSK	1	25	17.38	17.34	17.35			
10	QPSK	1	49	17.20	17.37	17.04			
10	QPSK	25	0	17.31	17.31	17.30	18.5	0	
10	QPSK	25	12	17.23	17.21	17.24			
10	QPSK	25	25	17.32	17.26	17.27			
10	QPSK	50	0	17.32	17.21	17.28	18.5	0	
10	16QAM	1	0	16.83	16.85	16.82			
10	16QAM	1	25	17.18	16.98	16.89			
10	16QAM	1	49	16.75	16.65	16.88	18.5	0	
10	16QAM	25	0	17.23	17.22	17.32			
10	16QAM	25	12	17.36	17.41	17.39			
10	16QAM	25	25	17.29	17.40	17.36	18.5	0	
10	16QAM	50	0	17.30	17.27	17.33			
10	64QAM	1	0	17.08	17.04	16.82			
10	64QAM	1	25	17.17	16.75	16.96	18.5	0	
10	64QAM	1	49	16.74	16.86	16.90			
10	64QAM	25	0	17.29	17.28	17.31			
10	64QAM	25	12	17.32	17.37	17.32	18.5	0	
10	64QAM	25	25	17.36	17.35	17.33			
10	64QAM	50	0	17.17	17.37	17.32			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	16.86	17.01	16.97	18.5	0	
5	QPSK	1	12	17.39	17.31	17.34			
5	QPSK	1	24	17.21	17.33	17.07			
5	QPSK	12	0	17.31	17.29	17.30	18.5	0	
5	QPSK	12	7	17.28	17.23	17.25			
5	QPSK	12	13	17.29	17.22	17.26			
5	QPSK	25	0	17.26	17.22	17.27	18.5	0	
5	16QAM	1	0	16.68	16.81	16.61			
5	16QAM	1	12	17.20	17.00	16.87			
5	16QAM	1	24	16.79	16.68	16.92	18.5	0	
5	16QAM	12	0	17.25	17.25	17.30			
5	16QAM	12	7	17.38	17.38	17.35			
5	16QAM	12	13	17.33	17.37	17.38	18.5	0	
5	16QAM	25	0	17.29	17.23	17.31			
5	64QAM	1	0	17.08	17.05	16.85			
5	64QAM	1	12	17.14	16.75	16.94	18.5	0	
5	64QAM	1	24	16.71	16.86	16.84			
5	64QAM	12	0	17.23	17.27	17.32			
5	64QAM	12	7	17.35	17.38	17.35	18.5	0	
5	64QAM	12	13	17.34	17.40	17.36			
5	64QAM	25	0	17.13	17.34	17.31			

Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	16.57	16.74	16.68	19.5	0	
20	QPSK	1	49	16.66	16.80	16.75			
20	QPSK	1	99	16.69	16.79	16.74			
20	QPSK	50	0	16.66	16.76	16.77	19.5	0	
20	QPSK	50	24	16.64	16.77	16.75			
20	QPSK	50	50	16.62	16.75	16.75			
20	QPSK	100	0	16.71	16.75	16.73	19.5	0	
20	16QAM	1	0	16.47	16.58	16.52			
20	16QAM	1	49	16.76	16.79	16.74			
20	16QAM	1	99	16.78	16.77	16.43	19.5	0	
20	16QAM	50	0	16.68	16.74	16.77			
20	16QAM	50	24	16.76	16.78	16.75			
20	16QAM	50	50	16.75	16.78	16.79	19.5	0	
20	16QAM	100	0	16.75	16.79	16.75			
20	64QAM	1	0	16.16	16.78	16.32			
20	64QAM	1	49	16.44	16.78	16.35	19.5	0	
20	64QAM	1	99	16.71	16.59	16.43			
20	64QAM	50	0	16.76	16.74	16.74			
20	64QAM	50	24	16.76	16.79	16.75	19.5	0	
20	64QAM	50	50	16.71	16.79	16.79			
20	64QAM	100	0	16.70	16.77	16.79			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	16.49	16.65	16.63	19.5	0	
15	QPSK	1	37	16.61	16.73	16.69			
15	QPSK	1	74	16.65	16.73	16.68			
15	QPSK	36	0	16.57	16.73	16.70	19.5	0	
15	QPSK	36	20	16.57	16.67	16.72			
15	QPSK	36	39	16.55	16.71	16.72			
15	QPSK	75	0	16.62	16.71	16.70	19.5	0	
15	16QAM	1	0	16.43	16.56	16.52			
15	16QAM	1	37	16.68	16.69	16.69			
15	16QAM	1	74	16.68	16.72	16.37	19.5	0	
15	16QAM	36	0	16.64	16.69	16.69			
15	16QAM	36	20	16.67	16.69	16.70			
15	16QAM	36	39	16.66	16.71	16.74	19.5	0	
15	16QAM	75	0	16.68	16.74	16.66			
15	64QAM	1	0	16.08	16.73	16.24			
15	64QAM	1	37	16.36	16.74	16.35	19.5	0	
15	64QAM	1	74	16.66	16.53	16.36			
15	64QAM	36	0	16.67	16.69	16.70			
15	64QAM	36	20	16.70	16.71	16.70	19.5	0	
15	64QAM	36	39	16.67	16.71	16.72			
15	64QAM	75	0	16.67	16.72	16.70			
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	16.49	16.67	16.64	19.5	0	
10	QPSK	1	25	16.60	16.74	16.73			
10	QPSK	1	49	16.60	16.74	16.67			
10	QPSK	25	0	16.61	16.73	16.74	19.5	0	
10	QPSK	25	12	16.61	16.69	16.71			
10	QPSK	25	25	16.57	16.66	16.72			
10	QPSK	50	0	16.64	16.68	16.64	19.5	0	
10	16QAM	1	0	16.41	16.54	16.47			
10	16QAM	1	25	16.71	16.74	16.65			
10	16QAM	1	49	16.72	16.68	16.35	19.5	0	
10	16QAM	25	0	16.63	16.67	16.73			
10	16QAM	25	12	16.66	16.70	16.65			
10	16QAM	25	25	16.67	16.74	16.73	19.5	0	
10	16QAM	50	0	16.68	16.72	16.72			
10	64QAM	1	0	16.08	16.69	16.26			
10	64QAM	1	25	16.36	16.75	16.30	19.5	0	
10	64QAM	1	49	16.68	16.56	16.39			
10	64QAM	25	0	16.70	16.66	16.67			
10	64QAM	25	12	16.66	16.69	16.65	19.5	0	
10	64QAM	25	25	16.66	16.74	16.72			
10	64QAM	50	0	16.64	16.74	16.41			
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	16.46	16.66	16.63	19.5	0	
5	QPSK	1	12	16.61	16.78	16.72			
5	QPSK	1	24	16.66	16.69	16.71			
5	QPSK	12	0	16.60	16.68	16.68	19.5	0	
5	QPSK	12	7	16.61	16.69	16.67			
5	QPSK	12	13	16.58	16.71	16.66			
5	QPSK	25	0	16.64	16.70	16.64	19.5	0	
5	16QAM	1	0	16.41	16.54	16.47			
5	16QAM	1	12	16.67	16.74	16.70			
5	16QAM	1	24	16.68	16.74	16.35	19.5	0	
5	16QAM	12	0	16.61	16.68	16.72			
5	16QAM	12	7	16.66	16.74	16.67			
5	16QAM	12	13	16.70	16.72	16.72	19.5	0	
5	16QAM	25	0	16.66	16.69	16.69			
5	64QAM	1	0	16.08	16.69	16.22			
5	64QAM	1	12	16.36	16.71	16.27	19.5	0	
5	64QAM	1	24	16.66	16.64	16.40			
5	64QAM	12	0	16.70	16.66	16.70			
5	64QAM	12	7	16.68	16.73	16.68	19.5	0	
5	64QAM	12	13	16.67	16.72	16.69			
5	64QAM	25	0	16.66	16.74	16.74			
Channel				131987	132322	132657			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	16.50	16.67	16.59	19.5	0	
3	QPSK	1	8	16.60	16.75	16.70			
3	QPSK	1	14	16.65	16.69	16.71			
3	QPSK	8	0	16.61	16.73	16.71	19.5	0	
3	QPSK	8	4	16.56	16.71	16.65			
3	QPSK	8	7	16.53	16.65	16.72			
3	QPSK	15	0	16.61	16.67	16.65	19.5	0	
3	16QAM	1	0	16.43	16.55	16.44			
3	16QAM	1	8	16.69	16.74	16.66			
3	16QAM	1	14	16.73	16.72	16.34	19.5	0	
3	16QAM	8	0	16.61	16.66	16.69			
3	16QAM	8	4	16.72	16.71	16.67			
3	16QAM	8	7	16.67	16.74	16.73	19.5	0	
3	16QAM	15	0	16.69	16.73	16.72			
3	64QAM	1	0	16.06	16.69	16.29			
3	64QAM	1	8	16.41	16.73	16.28	19.5	0	
3	64QAM	1	14	16.63	16.49	16.35			
3	64QAM	8	0	16.68	16.70	16.69			
3	64QAM	8	4	16.69	16.75	16.69	19.5	0	
3	64QAM	8	7	16.62	16.75	16.71			
3	64QAM	15	0	16.66	16.72	16.75			
Channel				131966	132322	132686			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	16.53	16.71	16.60	19.5	0	
1.4	QPSK	1	3	16.59	16.74	16.69			
1.4	QPSK	1	5	16.64	16.73	16.68			
1.4	QPSK	3	0	16.57	16.71	16.71	19.5	0	
1.4	QPSK	3	1	16.60	16.69	16.67			
1.4	QPSK	3	3	16.53	16.66	16.67			
1.4	QPSK	6	0	16.62	16.65	16.69	19.5	0	
1.4	16QAM	1	0	16.40	16.51	16.47			
1.4	16QAM	1	3	16.70	16.70	16.68			
1.4	16QAM	1	5	16.72	16.68	16.37	19.5	0	
1.4	16QAM	3	0	16.58	16.67	16.68			
1.4	16QAM	3	1	16.67	16.68	16.65			
1.4	16QAM	3	3	16.65	16.71	16.71	19.5	0	
1.4	16QAM	6	0	16.71	16.73	16.71			
1.4	64QAM	1	0	16.10	16.68	16.23			
1.4	64QAM	1	3	16.40	16.74	16.31	19.5	0	
1.4	64QAM	1	6	16.65	16.68	16.37			
1.4	64QAM	3	0	16.70	16.69	16.68			
1.4	64QAM	3	1	16.73	16.72	16.69	19.5	0	
1.4	64QAM	3	3	16.61	16.76	16.71			
1.4	64QAM	6	0	16.67	16.73	16.75			

Band 38								
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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	19.53	19.59	19.63	21	0
20	QPSK	1	49	19.95	20.00	19.92		
20	QPSK	1	99	19.94	19.93	19.86		
20	QPSK	50	0	19.90	19.94	19.86		
20	QPSK	50	24	19.89	19.84	19.84		
20	QPSK	50	50	19.80	19.89	19.81	21	0
20	QPSK	100	0	19.81	19.87	19.85		
20	16QAM	1	0	19.26	19.26	19.25		
20	16QAM	1	49	19.81	19.64	19.66		
20	16QAM	1	99	19.63	19.39	19.40		
20	16QAM	50	0	19.80	19.81	19.72	21	0
20	16QAM	50	24	19.84	19.83	19.70		
20	16QAM	50	50	19.79	19.88	19.90		
20	16QAM	100	0	19.95	19.85	19.86		
20	64QAM	1	0	19.66	19.54	19.73		
20	64QAM	1	49	19.95	19.82	19.84	21	0
20	64QAM	1	99	19.71	19.67	19.68		
20	64QAM	50	0	19.81	19.74	19.76		
20	64QAM	50	24	19.95	19.85	19.88		
20	64QAM	50	50	19.91	19.89	19.82		
20	64QAM	100	0	19.96	19.86	19.88	21	0
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	19.44	19.55	19.56	21	0
15	QPSK	1	37	19.90	19.96	19.88		
15	QPSK	1	74	19.84	19.85	19.81		
15	QPSK	36	0	19.80	19.89	19.78		
15	QPSK	36	20	19.81	19.75	19.77		
15	QPSK	36	39	19.70	19.86	19.75	21	0
15	QPSK	75	0	19.72	19.81	19.76		
15	16QAM	1	0	19.20	19.22	19.19		
15	16QAM	1	37	19.75	19.54	19.56		
15	16QAM	1	74	19.55	19.36	19.32		
15	16QAM	36	0	19.72	19.76	19.62	21	0
15	16QAM	36	20	19.77	19.75	19.61		
15	16QAM	36	39	19.69	19.83	19.80		
15	16QAM	75	0	19.88	19.80	19.81		
15	64QAM	1	0	19.62	19.50	19.70		
15	64QAM	1	37	19.87	19.73	19.77	21	0
15	64QAM	1	74	19.65	19.62	19.61		
15	64QAM	36	0	19.71	19.68	19.66		
15	64QAM	36	20	19.89	19.75	19.82		
15	64QAM	36	39	19.86	19.82	19.83		
15	64QAM	75	0	19.92	19.81	19.79	21	0
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	19.45	19.53	19.56	21	0
10	QPSK	1	25	19.91	19.98	19.86		
10	QPSK	1	49	19.84	19.83	19.78		
10	QPSK	25	0	19.83	19.87	19.83		
10	QPSK	25	12	19.79	19.74	19.81		
10	QPSK	25	25	19.74	19.85	19.75	21	0
10	QPSK	50	0	19.73	19.80	19.75		
10	16QAM	1	0	19.17	19.20	19.20		
10	16QAM	1	25	19.73	19.60	19.60		
10	16QAM	1	49	19.58	19.31	19.30		
10	16QAM	25	0	19.74	19.76	19.62	21	0
10	16QAM	25	12	19.81	19.78	19.66		
10	16QAM	25	25	19.74	19.81	19.86		
10	16QAM	50	0	19.87	19.81	19.81		
10	64QAM	1	0	19.63	19.50	19.66		
10	64QAM	1	25	19.92	19.76	19.81	21	0
10	64QAM	1	49	19.67	19.64	19.59		
10	64QAM	25	0	19.75	19.67	19.72		
10	64QAM	25	12	19.87	19.81	19.79		
10	64QAM	25	25	19.88	19.80	19.86		
10	64QAM	50	0	19.89	19.82	19.81	21	0
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	19.46	19.54	19.53	21	0
5	QPSK	1	12	19.91	19.94	19.88		
5	QPSK	1	24	19.86	19.84	19.78		
5	QPSK	12	0	19.85	19.89	19.78		
5	QPSK	12	7	19.86	19.81	19.81		
5	QPSK	12	13	19.71	19.79	19.78	21	0
5	QPSK	25	0	19.74	19.81	19.80		
5	16QAM	1	0	19.18	19.17	19.20		
5	16QAM	1	12	19.77	19.61	19.60		
5	16QAM	1	24	19.58	19.29	19.36		
5	16QAM	12	0	19.71	19.73	19.64	21	0
5	16QAM	12	7	19.76	19.80	19.65		
5	16QAM	12	13	19.72	19.80	19.81		
5	16QAM	25	0	19.68	19.77	19.82		
5	64QAM	1	0	19.57	19.49	19.68		
5	64QAM	1	12	19.91	19.73	19.80	21	0
5	64QAM	1	24	19.62	19.58	19.61		
5	64QAM	12	0	19.77	19.67	19.69		
5	64QAM	12	7	19.90	19.77	19.82		
5	64QAM	12	13	19.81	19.86	19.86		
5	64QAM	25	0	19.92	19.76	19.82	21	0
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	19.45	19.53	19.56	21	0
10	QPSK	1	25	19.91	19.98	19.86		
10	QPSK	1	49	19.84	19.83	19.78		
10	QPSK	25	0	19.83	19.87	19.83		
10	QPSK	25	12	19.79	19.74	19.81		

Reduced Power Mode for Headheld on

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot		29.07	29.13	29.10		20.07	20.13	20.10	
GPRS 1 Tx slot		29.11	29.18	29.16	30.00	20.11	20.18	20.16	21.00
GPRS 3 Tx slots		28.94	28.96	28.97	28.00	20.94	20.96	20.97	22.00
GPRS 3 Tx slots		24.36	24.30	24.36	25.50	20.10	20.04	20.10	21.24
GPRS 4 Tx slots		22.78	22.97	22.78	24.00	19.78	19.97	19.78	21.00
EDGE 1 Tx slot		25.68	25.47	25.45	26.50	16.68	16.47	16.45	17.50
EDGE 2 Tx slots		23.66	23.39	23.28	24.00	17.68	17.39	17.28	18.00
EDGE 3 Tx slots		21.16	21.29	21.28	21.50	16.90	17.03	17.02	17.24
EDGE 4 Tx slots		19.36	19.26	19.15	20.50	16.36	16.26	16.15	17.50

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9460	9638		1312	1413	1513	
Rx Channel		9602	9800	9938		1337	1438	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99 AMR 12.2Kbps		20.32	20.30	20.16	21.50	19.39	19.43	19.44	20.50
3GPP Rel 99 RMC 12.2Kbps		20.39	20.45	20.43	21.50	19.61	19.62	19.51	20.50
3GPP Rel 6 HSDPA Subtest-1		19.49	19.33	19.55	20.50	16.54	16.43	16.34	19.50
3GPP Rel 6 HSDPA Subtest-2		19.42	19.47	19.59	20.50	16.48	16.62	16.59	19.50
3GPP Rel 6 HSDPA Subtest-3		19.01	18.95	18.91	20.00	17.98	17.99	17.99	19.00
3GPP Rel 6 HSDPA Subtest-4		18.92	18.06	18.96	20.00	17.79	17.84	18.05	19.00
3GPP Rel 6 DC-HSDPA Subtest-1		19.46	19.33	19.44	20.50	16.48	16.38	16.33	19.50
3GPP Rel 6 DC-HSDPA Subtest-2		19.35	19.41	19.51	20.50	16.40	16.61	16.59	19.50
3GPP Rel 6 DC-HSDPA Subtest-3		18.79	18.85	18.93	20.00	17.82	17.81	17.92	19.00
3GPP Rel 6 DC-HSDPA Subtest-4		18.97	18.93	18.93	20.00	17.97	17.87	17.84	19.00
3GPP Rel 6 HSUPA Subtest-1		19.37	19.51	19.54	20.50	16.44	16.52	16.71	19.50
3GPP Rel 6 HSUPA Subtest-2		17.43	17.48	17.42	18.50	16.49	16.53	16.65	17.50
3GPP Rel 6 HSUPA Subtest-3		16.43	16.49	16.54	18.50	17.52	17.54	17.62	18.50
3GPP Rel 6 HSUPA Subtest-4		17.30	17.50	17.67	18.50	16.40	16.45	16.65	17.50
3GPP Rel 6 HSUPA Subtest-5		19.53	19.58	19.64	20.50	16.45	16.43	16.58	19.50

Band 2									
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				18700	18900	19100			
Frequency (MHz)				18700	18900	19100			
20	QPSK	1	0	20.73	20.94	21.04		22	0
20	QPSK	1	49	20.98	21.09	20.92			
20	QPSK	1	99	20.89	20.99	20.87			
20	QPSK	50	0	21.02	21.05	20.98			
20	QPSK	50	24	20.99	21.01	20.83		22	0
20	QPSK	50	50	20.93	20.96	20.88			
20	QPSK	100	0	20.87	21.03	20.87			
20	16QAM	1	0	20.88	21.00	20.88			
20	16QAM	1	49	20.91	20.90	20.51		22	0
20	16QAM	1	99	20.54	21.01	20.28			
20	16QAM	50	0	20.91	21.02	20.85			
20	16QAM	50	24	20.96	21.04	20.81		22	0
20	16QAM	50	50	20.91	21.00	20.87			
20	16QAM	100	0	20.86	20.99	20.83			
20	64QAM	1	0	20.90	21.05	20.84			
20	64QAM	1	49	20.99	21.04	20.84		22	0
20	64QAM	1	99	20.86	21.05	20.85			
20	64QAM	50	0	19.81	19.76	19.78			
20	64QAM	50	24	19.71	19.90	19.75		21	1
20	64QAM	50	50	19.72	19.66	19.83			
20	64QAM	100	0	19.86	19.80	19.85			
Channel				18875	18900	19125	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1887.5	1880	1902.5			
15	QPSK	1	0	20.68	20.90	20.94		22	0
15	QPSK	1	37	20.95	21.04	20.89			
15	QPSK	1	74	20.81	20.92	20.80			
15	QPSK	36	0	20.93	20.97	20.89		22	0
15	QPSK	36	20	20.93	20.95	20.75			
15	QPSK	36	39	20.88	20.86	20.78			
15	QPSK	75	0	20.77	20.98	20.78			
15	16QAM	1	0	20.84	20.97	20.85		22	0
15	16QAM	1	37	20.83	20.87	20.43			
15	16QAM	1	74	20.51	20.92	20.25			
15	16QAM	36	0	20.81	20.95	20.78		22	0
15	16QAM	36	20	20.91	20.94	20.76			
15	16QAM	36	39	20.83	20.96	20.79			
15	16QAM	75	0	20.77	20.83	20.78			
15	64QAM	1	0	20.86	20.97	20.81		22	0
15	64QAM	1	37	20.89	21.01	20.76			
15	64QAM	1	74	20.76	21.00	20.79			
15	64QAM	36	0	19.74	19.70	19.71		21	1
15	64QAM	36	20	19.65	19.85	19.71			
15	64QAM	36	39	19.89	19.58	19.78			
15	64QAM	75	0	19.81	19.72	19.78			
Channel				18950	18900	19150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1895	1880	1905			
10	QPSK	1	0	20.63	20.86	20.97		22	0
10	QPSK	1	25	20.95	21.03	20.85			
10	QPSK	1	49	20.84	20.91	20.77			
10	QPSK	25	0	20.92	20.96	20.88		22	0
10	QPSK	25	12	20.93	20.97	20.79			
10	QPSK	25	25	20.87	20.86	20.79			
10	QPSK	50	0	20.82	20.94	20.81		22	0
10	16QAM	1	0	20.78	20.95	20.82			
10	16QAM	1	25	20.88	20.80	20.42		22	0
10	16QAM	1	49	20.50	20.91	20.22			
10	16QAM	25	0	20.83	20.92	20.80		22	0
10	16QAM	25	12	20.86	20.99	20.76			
10	16QAM	25	25	20.85	20.91	20.82			
10	16QAM	50	0	20.79	20.90	20.79		22	0
10	64QAM	1	0	20.87	20.98	20.75		22	0
10	64QAM	1	25	20.90	21.00	20.80			
10	64QAM	1	49	20.83	20.98	20.81			
10	64QAM	25	0	19.78	19.72	19.70		21	1
10	64QAM	25	12	19.65	19.86	19.72			
10	64QAM	25	25	19.64	19.60	19.79			
10	64QAM	50	0	19.81	19.77	19.82			
Channel				18925	18900	19175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1880	1907.5			
5	QPSK	1	0	20.70	20.84	20.96		22	0
5	QPSK	1	12	20.93	21.05	20.88			
5	QPSK	1	24	20.81	20.91	20.78			
5	QPSK	12	0	20.95	21.02	20.95		22	0
5	QPSK	12	7	20.91	20.92	20.78			
5	QPSK	12	13	20.89	20.92	20.82			
5	QPSK	25	0	20.77	20.96	20.83		22	0
5	16QAM	1	0	20.81	20.92	20.78			
5	16QAM	1	12	20.81	20.86	20.47		22	0
5	16QAM	1	24	20.46	20.97	20.24			
5	16QAM	12	0	20.82	20.94	20.78		22	0
5	16QAM	12	7	20.89	20.94	20.73			
5	16QAM	12	13	20.85	20.91	20.84			
5	16QAM	25	0	20.78	20.90	20.76		22	0
5	64QAM	1	0	20.87	21.01	20.77			
5	64QAM	1	12	20.95	20.98	20.78		22	0
5	64QAM	1	24	20.77	20.96	20.82			
5	64QAM	12	0	19.74	19.96	19.72		21	1
5	64QAM	12	7	19.67	19.81	19.66			
5	64QAM	12	13	19.66	19.82	19.75			
5	64QAM	25	0	19.76	19.71	19.79			
Channel				18815	18900	19185	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1881.5	1880	1908.5			
3	QPSK	1	0	20.70	20.89	20.99		22	0
3	QPSK	1	8	20.96	21.07	20.86			
3	QPSK	1	14	20.80	20.92	20.81			
3	QPSK	8	0	20.94	20.95	20.95		22	0
3	QPSK	8	4	20.90	20.91	20.80			
3	QPSK	8	7	20.89	20.93	20.81			
3	QPSK	15	0	20.84	20.97	20.80		22	0
3	16QAM	1	0	20.80	20.94	20.83			
3	16QAM	1	8	20.84	20.87	20.46		22	0
3	16QAM	1	14	20.46	20.93	20.21			
3	16QAM	8	0	20.81	20.94	20.81			
3	16QAM	8	4	20.87	21.00	20.72		22	0
3	16QAM	8	7	20.88	20.94	20.79			
3	16QAM	15	0	20.81	20.90	20.76		22	0
3	64QAM	1	0	20.82	20.98	20.80			
3	64QAM	1	8	20.95	21.00	20.78		22	0
3	64QAM	1	14	20.83	20.95	20.80			
3	64QAM	8	0	19.75	19.72	19.68		21	1
3	64QAM	8	4	19.68	19.81	19.71			
3	64QAM	8	7	19.62	19.63	19.78			
3	64QAM	15	0	19.78	19.70	19.76			
Channel				18907	18900	19163	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1890.7	1880	1903.3			
1.4	QPSK	1	0	20.86	20.88	21.00		22	0
1.4	QPSK	1	3	20.92	21.02	20.87			
1.4	QPSK	1	5	20.86	20.92	20.84			
1.4	QPSK	3	0	20.97	20.95	20.93		22	0
1.4	QPSK	3	1	20.92	20.94	20.73			
1.4	QPSK	3	3	20.89	20.87	20.84		22	0
1.4	QPSK	6	0	20.77	20.97	20.78			
1.4	16QAM	1	0	20.83	20.95	20.85		22	0
1.4	16QAM	1	3	20.83	20.86	20.42			
1.4	16QAM	1	5	20.44	20.94	20.18			
1.4	16QAM	3	0	20.85	20.95	20.81		22	0
1.4	16QAM	3	1	20.91	20.96	20.78			
1.4	16QAM	3	3	20.83	20.91	20.82		22	0
1.4	16QAM	6	0	20.82	20.90	20.79			
1.4	64QAM	1	0	20.87	21.00	20.81		22	0
1.4	64QAM	1	3	20.92	20.99	20.75			
1.4	64QAM	1	5	20.80	21.01	20.79		22	0
1.4	64QAM	3	0	20.89	21.02	20.80			
1.4	64QAM	3	1	20.90	21.01	20.73			
1.4	64QAM	3	3	20.80	21.05	20.83		21	1
1.4	64QAM	6	0	19.83	19.71	19.80			

Band 4									
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				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	20.31	20.38	20.46		21.5	0
20	QPSK	1	49	20.47	20.60	20.54			
20	QPSK	1	99	20.16	20.21	20.24			
20	QPSK	50	0	20.44	20.53	20.49		21.5	0
20	QPSK	50	24	20.49	20.52	20.52			
20	QPSK	50	50	20.46	20.46	20.43			
20	QPSK	100	0	20.49	20.50	20.46		21.5	0
20	16QAM	1	0	20.47	20.54	20.44			
20	16QAM	1	49	20.22	20.51	20.56			
20	16QAM	1	99	20.58	20.47	20.07		21.5	0
20	16QAM	50	0	20.40	20.49	20.50			
20	16QAM	50	24	20.48	20.58	20.50			
20	16QAM	50	50	20.45	20.57	20.47		21.5	0
20	16QAM	100	0	20.45	20.54	20.48			
20	64QAM	1	0	20.47	20.57	20.45			
20	64QAM	1	49	20.43	20.57	20.53		21.5	0
20	64QAM	1	99	20.49	20.55	20.50			
20	64QAM	50	0	19.82	20.08	19.83			
20	64QAM	50	24	19.80	19.94	19.80		21	0.5
20	64QAM	50	50	19.82	19.97	19.73			
20	64QAM	100	0	19.70	20.08	20.05			
Channel				20024	20175	20325	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	20.28	20.27	20.37		21.5	0
15	QPSK	1	37	20.43	20.56	20.50			
15	QPSK	1	74	20.06	20.10	20.20			
15	QPSK	36	0	20.39	20.45	20.42		21.5	0
15	QPSK	36	20	20.46	20.47	20.48			
15	QPSK	36	39	20.37	20.34	20.40			
15	QPSK	75	0	20.37	20.38	20.47		21.5	0
15	16QAM	1	0	20.39	20.42	20.37			
15	16QAM	1	37	20.10	20.47	20.45			
15	16QAM	1	74	20.54	20.37	19.95		21.5	0
15	16QAM	36	0	20.36	20.39	20.47			
15	16QAM	36	20	20.36	20.54	20.45			
15	16QAM	36	39	20.35	20.46	20.39		21.5	0
15	16QAM	75	0	20.42	20.51	20.42			
15	16QAM	1	0	20.35	20.48	20.33			
15	64QAM	1	0	20.37	20.42	20.35		21.5	0
15	64QAM	1	74	20.45	20.45	20.38			
15	64QAM	36	0	19.79	19.97	19.99			
15	64QAM	36	20	19.75	19.90	19.76		21	0.5
15	64QAM	36	39	19.88	19.68	19.69			
15	64QAM	75	0	19.61	19.98	19.99			
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	20.21	20.33	20.36		21.5	0
10	QPSK	1	25	20.41	20.53	20.50			
10	QPSK	1	49	20.16	20.18	20.21			
10	QPSK	25	0	20.38	20.43	20.44		21.5	0
10	QPSK	25	12	20.45	20.49	20.48			
10	QPSK	25	25	20.38	20.42	20.31			
10	QPSK	50	0	20.45	20.38	20.36		21.5	0
10	16QAM	1	0	20.36	20.49	20.41			
10	16QAM	1	25	20.11	20.39	20.50			
10	16QAM	1	49	20.52	20.38	20.20		21.5	0
10	16QAM	25	0	20.35	20.43	20.41			
10	16QAM	25	12	20.35	20.51	20.39			
10	16QAM	50	0	20.40	20.50	20.37		21.5	0
10	64QAM	1	0	20.37	20.45	20.36			
10	64QAM	1	49	20.40	20.46	20.45			
10	64QAM	25	0	19.77	19.98	19.97		21	0.5
10	64QAM	25	12	19.72	19.91	19.69			
10	64QAM	25	25	19.93	19.71	19.66			
10	64QAM	50	0	19.64	20.00	20.01		Tune-up limit (dBm)	MPR (dB)
Channel				19973	20175	20375			
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	20.27	20.26	20.37		21.5	0
5	QPSK	1	12	20.40	20.58	20.51			
5	QPSK	1	24	20.13	20.12	20.19			
5	QPSK	12	0	20.38	20.46	20.39		21.5	0
5	QPSK	12	7	20.40	20.43	20.48			
5	QPSK	12	13	20.35	20.39	20.40			
5	QPSK	25	0	20.39	20.43	20.34		21.5	0
5	16QAM	1	0	20.37	20.43	20.33			
5	16QAM	1	12	20.10	20.45	20.53			
5	16QAM	1	24	20.49	20.40	20.20		21.5	0
5	16QAM	12	0	20.36	20.39	20.38			
5	16QAM	12	7	20.45	20.51	20.42			
5	16QAM	12	13	20.39	20.52	20.40		21.5	0
5	16QAM	25	0	20.42	20.47	20.38			
5	64QAM	1	0	20.44	20.52	20.40			
5	64QAM	1	12	20.12	20.46	20.49		21.5	0
5	64QAM	1	24	20.38	20.44	20.43			
5	64QAM	12	0	19.70	20.00	19.98			
5	64QAM	12	7	19.77	19.90	19.71		21	0.5
5	64QAM	12	13	19.90	19.74	19.63			
5	64QAM	25	0	19.58	20.03	19.96			
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	20.28	20.32	20.35		21.5	0
3	QPSK	1	8	20.44	20.57	20.51			
3	QPSK	1	14	20.12	20.16	20.16			
3	QPSK	8	0	20.31	20.41	20.45		21.5	0
3	QPSK	8	4	20.37	20.42	20.47			
3	QPSK	8	7	20.42	20.37	20.36			
3	QPSK	15	0	20.40	20.42	20.37		21.5	0
3	16QAM	1	0	20.37	20.46	20.34			
3	16QAM	1	8	20.14	20.39	20.48			
3	16QAM	1	14	20.53	20.44	19.99		21.5	0
3	16QAM	8	0	20.28	20.42	20.39			
3	16QAM	8	4	20.39	20.55	20.44			
3	16QAM	8	7	20.42	20.52	20.40		21.5	0
3	16QAM	15	0	20.36	20.44	20.39			
3	64QAM	1	0	20.42	20.52	20.38			
3	64QAM	1	8	20.37	20.52	20.55		21.5	0
3	64QAM	1	14	20.39	20.50	20.46			
3	64QAM	8	0	19.73	20.04	19.95			
3	64QAM	8	4	19.73	19.88	19.71		21	0.5
3	64QAM	8	7	19.88	19.73	19.66			
3	64QAM	15	0	19.64	20.07	19.98			
Channel				19964	20175	20395	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	20.20	20.31	20.35		21.5	0
1.4	QPSK	1	3	20.42	20.58	20.51			
1.4	QPSK	1	5	20.12	20.11	20.21			
1.4	QPSK	3	0	20.35	20.42	20.45		21.5	0
1.4	QPSK	3	1	20.45	20.49	20.48			
1.4	QPSK	3	3	20.35	20.40	20.34			
1.4	QPSK	6	0	20.44	20.47	20.38		21.5	0
1.4	16QAM	1	0	20.37	20.48	20.36			
1.4	16QAM	1	3	20.14	20.47	20.44			
1.4	16QAM	1	5	20.52	20.39	19.99		21.5	0
1.4	16QAM	3	0	20.30	20.42	20.42			
1.4	16QAM	3	1	20.38	20.48	20.46			
1.4	16QAM	3	3	20.35	20.54	20.40		21.5	0
1.4	16QAM	6	0	20.35	20.51	20.37			
1.4	64QAM	1	0	20.43	20.49	20.38			
1.4	64QAM	1	3	20.33	20.51	20.44		21.5	0
1.4	64QAM	1	5	20.39	20.46	20.41			
1.4	64QAM	3	0	20.30	20.40	20.40			
1.4	64QAM	3	1	20.27	20.57	20.50		21.5	0.5
1.4	64QAM	3	3	20.43	20.46	20.43			
1.4	64QAM	6	0	19.67	19.98	19.93			

Band 7									
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				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	20.85	20.76	20.77	22	0	
20	QPSK	1	49	21.20	21.09	21.15			
20	QPSK	1	99	20.98	21.08	20.91			
20	QPSK	50	0	21.19	21.13	21.07	22	0	
20	QPSK	50	24	21.07	21.06	21.01			
20	QPSK	50	50	21.07	21.03	21.08			
20	QPSK	100	0	21.11	21.02	21.04	22	0	
20	16QAM	1	0	20.48	20.70	20.40			
20	16QAM	1	49	21.02	20.70	20.65			
20	16QAM	1	99	20.51	20.51	20.73	22	0	
20	16QAM	50	0	21.08	21.03	21.11			
20	16QAM	50	24	21.18	21.14	21.16			
20	16QAM	50	50	21.12	21.18	21.14	22	0	
20	16QAM	100	0	21.03	21.05	21.07			
20	64QAM	1	0	20.84	20.80	20.65			
20	64QAM	1	49	20.99	20.49	20.76	22	0	
20	64QAM	1	99	20.54	20.65	20.66			
20	64QAM	50	0	20.00	20.10	20.22			
20	64QAM	50	24	19.92	20.15	20.13	21	1	
20	64QAM	50	50	19.90	20.28	20.30			
20	64QAM	100	0	19.95	20.24	20.22			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	20.35	20.42	20.47	22	0	
15	QPSK	1	37	20.91	20.84	20.87			
15	QPSK	1	74	20.65	20.77	20.56			
15	QPSK	36	0	20.92	20.86	20.77	22	0	
15	QPSK	36	20	20.75	20.72	20.71			
15	QPSK	36	39	20.78	20.76	20.82			
15	QPSK	75	0	20.81	20.68	20.77	22	0	
15	16QAM	1	0	20.16	20.44	20.06			
15	16QAM	1	37	20.73	20.42	20.30			
15	16QAM	1	74	20.18	20.20	20.39	22	0	
15	16QAM	36	0	20.81	20.75	20.84			
15	16QAM	36	20	20.83	20.96	20.81			
15	16QAM	36	39	20.80	20.85	20.85	22	0	
15	16QAM	75	0	20.76	20.77	20.75			
15	64QAM	1	0	20.58	20.48	20.32			
15	64QAM	1	37	20.73	20.20	20.49	22	0	
15	64QAM	1	74	20.24	20.34	20.35			
15	64QAM	36	0	19.74	19.78	19.91			
15	64QAM	36	20	19.62	19.83	19.79	21	1	
15	64QAM	36	39	19.63	19.93	20.01			
15	64QAM	75	0	19.64	19.93	19.89			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	20.35	20.43	20.42	22	0	
10	QPSK	1	25	20.93	20.84	20.87			
10	QPSK	1	49	20.63	20.77	20.65			
10	QPSK	25	0	20.85	20.81	20.74	22	0	
10	QPSK	25	12	20.77	20.74	20.66			
10	QPSK	25	25	20.80	20.75	20.82			
10	QPSK	50	0	20.85	20.70	20.75	22	0	
10	16QAM	1	0	20.14	20.44	20.09			
10	16QAM	1	25	20.70	20.39	20.32			
10	16QAM	1	49	20.24	20.18	20.40	22	0	
10	16QAM	25	0	20.81	20.72	20.81			
10	16QAM	25	12	20.85	20.86	20.86			
10	16QAM	25	25	20.86	20.92	20.81	22	0	
10	16QAM	50	0	20.76	20.79	20.76			
10	64QAM	1	0	20.50	20.45	20.35			
10	64QAM	1	25	20.69	20.22	20.50	22	0	
10	64QAM	1	49	20.27	20.38	20.36			
10	64QAM	25	0	19.65	19.78	19.96			
10	64QAM	25	12	19.58	19.83	19.85	21	1	
10	64QAM	25	25	19.61	19.97	19.98			
10	64QAM	50	0	19.62	19.91	19.90			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	20.36	20.42	20.42	22	0	
5	QPSK	1	12	20.93	20.78	20.87			
5	QPSK	1	24	20.72	20.78	20.64			
5	QPSK	12	0	20.87	20.87	20.81	22	0	
5	QPSK	12	7	20.78	20.80	20.68			
5	QPSK	12	13	20.78	20.69	20.81			
5	QPSK	25	0	20.76	20.76	20.72	22	0	
5	16QAM	1	0	20.16	20.36	20.09			
5	16QAM	1	12	20.70	20.41	20.39			
5	16QAM	1	24	20.21	20.24	20.45	22	0	
5	16QAM	12	0	20.75	20.70	20.85			
5	16QAM	12	7	20.83	20.83	20.89			
5	16QAM	12	13	20.77	20.85	20.85	22	0	
5	16QAM	25	0	20.68	20.72	20.77			
5	64QAM	1	0	20.55	20.45	20.39			
5	64QAM	1	12	20.69	20.18	20.41	22	0	
5	64QAM	1	24	20.26	20.33	20.36			
5	64QAM	12	0	19.67	19.77	19.86			
5	64QAM	12	7	19.63	19.80	19.83	21	1	
5	64QAM	12	13	19.58	19.93	19.97			
5	64QAM	25	0	19.62	19.95	19.91			

Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	20.89	21.03	20.97	21.5	0	
20	QPSK	1	49	20.97	21.12	21.04			
20	QPSK	1	99	20.96	21.10	20.99			
20	QPSK	50	0	20.91	21.07	21.05			
20	QPSK	50	24	20.88	21.05	21.01	21.5	0	
20	QPSK	50	50	20.83	21.04	21.01			
20	QPSK	100	0	20.95	21.03	21.00			
20	16QAM	1	0	20.74	20.92	20.85			
20	16QAM	1	49	21.03	21.10	20.98	21.5	0	
20	16QAM	1	99	21.07	21.05	20.72			
20	16QAM	50	0	20.98	21.01	21.02			
20	16QAM	50	24	21.10	21.11	21.07			
20	16QAM	50	50	21.04	21.07	21.05	21.5	0	
20	16QAM	100	0	21.00	21.10	21.03			
20	64QAM	1	0	20.40	21.09	20.65			
20	64QAM	1	49	20.77	21.08	20.63			
20	64QAM	1	99	20.97	20.94	20.78	21.5	0	
20	64QAM	50	0	19.93	20.27	20.04			
20	64QAM	50	24	20.03	20.09	20.03			
20	64QAM	50	50	20.00	20.14	19.98			
20	64QAM	100	0	20.14	20.24	20.15	Tune-up limit (dBm) MPR (dB)		
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	20.79	20.93	20.94	21.5	0	
15	QPSK	1	37	20.94	21.08	20.98			
15	QPSK	1	74	20.91	21.06	20.93			
15	QPSK	36	0	20.86	20.98	20.97			
15	QPSK	36	20	20.78	20.96	20.91	21.5	0	
15	QPSK	36	39	20.74	21.01	20.96			
15	QPSK	75	0	20.90	20.98	20.92			
15	16QAM	1	0	20.69	20.86	20.77			
15	16QAM	1	37	21.00	21.04	20.92	21.5	0	
15	16QAM	1	74	21.04	20.99	20.68			
15	16QAM	36	0	20.94	20.91	20.97			
15	16QAM	36	20	21.03	21.06	20.97			
15	16QAM	36	39	21.00	20.99	21.02	21.5	0	
15	16QAM	75	0	20.96	21.01	20.94			
15	64QAM	1	0	20.31	21.01	20.60			
15	64QAM	1	37	20.67	21.01	20.69			
15	64QAM	1	74	20.92	20.89	20.70	21.5	0	
15	64QAM	36	0	19.89	20.23	19.97			
15	64QAM	36	20	19.99	20.01	20.00			
15	64QAM	36	39	19.93	20.04	19.89			
15	64QAM	75	0	20.11	20.17	20.10	Tune-up limit (dBm) MPR (dB)		
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	20.86	20.99	20.91	21.5	0	
10	QPSK	1	25	20.93	21.06	21.00			
10	QPSK	1	49	20.97	21.02	20.98			
10	QPSK	25	0	20.85	21.02	20.98			
10	QPSK	25	12	20.80	21.00	20.98	21.5	0	
10	QPSK	25	25	20.76	21.01	20.95			
10	QPSK	50	0	20.90	20.98	20.95			
10	16QAM	1	0	20.71	20.88	20.77			
10	16QAM	1	25	20.96	21.06	20.92	21.5	0	
10	16QAM	1	49	20.98	21.01	20.95			
10	16QAM	25	0	20.88	20.93	20.85			
10	16QAM	25	12	21.07	21.01	20.99			
10	16QAM	25	25	20.97	20.97	20.98	21.5	0	
10	16QAM	50	0	20.91	21.05	20.98			
10	64QAM	1	0	20.30	21.03	20.59			
10	64QAM	1	25	20.72	21.04	20.54			
10	64QAM	1	49	20.92	20.89	20.69	21.5	0	
10	64QAM	25	0	19.90	20.18	19.98			
10	64QAM	25	12	19.97	20.06	19.96			
10	64QAM	25	25	19.87	20.08	19.89			
10	64QAM	50	0	20.08	20.08	20.05	Tune-up limit (dBm) MPR (dB)		
Channel				131987	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	20.81	20.96	20.93	21.5	0	
5	QPSK	1	12	20.91	21.10	20.97			
5	QPSK	1	24	20.87	21.05	20.96			
5	QPSK	12	0	20.88	20.99	20.97			
5	QPSK	12	7	20.82	20.96	20.98	21.5	0	
5	QPSK	12	13	20.78	20.98	20.92			
5	QPSK	25	0	20.88	21.00	20.94			
5	16QAM	1	0	20.67	20.78	20.78			
5	16QAM	1	12	20.96	21.04	20.99	21.5	0	
5	16QAM	1	24	21.01	20.99	20.82			
5	16QAM	12	0	20.95	20.97	20.98			
5	16QAM	12	7	21.02	21.02	20.99			
5	16QAM	12	13	20.94	20.98	20.96	21.5	0	
5	16QAM	25	0	20.97	21.03	20.94			
5	64QAM	1	0	20.34	21.01	20.62			
5	64QAM	1	12	20.69	20.99	20.53			
5	64QAM	1	24	20.87	21.00	20.80	21.5	0	
5	64QAM	12	0	19.83	20.21	19.98			
5	64QAM	12	7	19.99	20.04	19.98			
5	64QAM	12	13	19.97	20.10	19.88			
5	64QAM	25	0	20.11	20.20	20.12	Tune-up limit (dBm) MPR (dB)		
Channel				131987	132322	132657			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	20.81	20.98	20.91	21.5	0	
3	QPSK	1	8	20.94	21.05	20.97			
3	QPSK	1	14	20.91	21.05	20.94			
3	QPSK	8	4	20.87	21.01	20.98			
3	QPSK	8	4	20.81	21.01	20.95	21.5	0	
3	QPSK	8	7	20.79	21.01	20.91			
3	QPSK	15	0	20.92	20.97	20.95			
3	16QAM	1	0	20.64	20.83	20.80			
3	16QAM	1	8	20.96	21.00	20.92	21.5	0	
3	16QAM	1	14	20.97	20.99	20.83			
3	16QAM	8	0	20.62	20.93	20.94			
3	16QAM	8	4	21.04	21.08	20.97			
3	16QAM	8	7	20.99	21.01	21.01	21.5	0	
3	16QAM	15	0	20.97	21.02	20.97			
3	64QAM	1	0	20.36	21.01	20.55			
3	64QAM	1	8	20.70	21.05	20.55			
3	64QAM	1	14	20.93	20.91	20.68	21.5	0	
3	64QAM	8	0	19.88	20.18	20.00			
3	64QAM	8	4	19.94	20.00	19.96			
3	64QAM	8	7	19.95	20.06	19.88			
3	64QAM	15	0	20.06	20.18	20.08	Tune-up limit (dBm) MPR (dB)		
Channel				131979	132322	132655			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	20.79	20.93	20.87	21.5	0	
1.4	QPSK	1	3	20.90	21.06	20.99			
1.4	QPSK	1	5	20.90	21.03	20.94			
1.4	QPSK	3	0	20.85	21.03	20.96			
1.4	QPSK	3	1	20.78	20.96	20.94	21.5	0	
1.4	QPSK	3	3	20.77	20.97	20.96			
1.4	QPSK	6	0	20.91	20.97	20.91			
1.4	16QAM	1	0	20.71	20.83	20.76			
1.4	16QAM	1	3	20.83	21.03	21.04	21.5	0	
1.4	16QAM	1	5	21.02	21.02	20.82			
1.4	16QAM	3	0	20.95	20.98	20.96			
1.4	16QAM	3	1	21.07	21.06	21.00			
1.4	16QAM	3	3	20.96	21.01	20.99	21.5	0	
1.4	16QAM	6	0	20.97	21.04	20.98			
1.4	64QAM	1	0	20.31	21.06	20.58			
1.4	64QAM	1	3	20.74	21.03	20.55			
1.4	64QAM	1	5	20.91	21.05	20.72	21.5	0	
1.4	64QAM	3	0	20.31	21.08	20.60			
1.4	64QAM	3	1	20.79	21.08	20.60			
1.4	64QAM	3	3	20.94	20.91	20.72			
1.4	64QAM	6	0	20.07	20.17	20.06	21	0.5	

Full Power

2.4GHz WLAN				Ant 3		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle (%)
	802.11b 1Mbps	1	2412	19.04	21.00	98.61
		6	2437	19.14	21.00	
		11	2462	19.01	21.00	
	802.11g 6Mbps	1	2412	17.06	19.00	98.26
		6	2437	19.26	21.00	
		11	2462	16.67	18.50	
	802.11n-HT20 MCS9	1	2412	15.77	17.50	98.14
		2	2417	16.47	20.00	
		6	2437	19.09	20.50	
		10	2457	17.89	19.50	
		11	2462	15.54	17.00	
		3	2422	13.95	15.50	
	802.11n-HT40 MCS9	4	2427	14.58	16.00	94.89
		5	2432	16.00	17.50	
		6	2437	17.50	19.00	
		7	2442	17.54	19.00	
		8	2447	15.53	17.00	
		9	2452	13.22	15.00	

5.2GHz WLAN				Ant 3		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	16.01	18.00	98.26
		40	5200	18.00	19.50	
		44	5220	18.29	19.50	
		48	5240	18.20	19.50	
	802.11n-HT20 MCS9	36	5180	16.49	18.00	98.14
		40	5200	17.97	19.50	
		44	5220	16.25	19.50	
		48	5240	18.04	19.50	
	802.11n-HT40 MCS9	38	5190	13.29	15.00	96.30
		46	5230	17.90	19.50	
	802.11ac-VHT20 MCS9	36	5180	16.53	18.00	98.15
		40	5200	17.93	19.50	
		44	5220	18.28	19.50	
		48	5240	18.14	19.50	
	802.11ac-VHT40 MCS9	38	5190	13.33	15.00	96.30
		46	5230	18.07	19.50	
	802.11ac-VHT80 MCS9	42	5210	11.11	13.00	92.71

5.3GHz WLAN				Ant 3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	18.39	19.50	98.26
		56	5280	18.48	19.50	
		60	5300	18.54	19.50	
		64	5320	18.34	19.50	
	802.11n-HT20 MCS9	52	5260	18.39	19.50	98.14
		56	5280	18.32	19.50	
		60	5300	18.38	19.50	
		64	5320	18.33	19.50	
	802.11n-HT40 MCS9	54	5270	18.18	19.50	96.30
		62	5310	14.34	16.00	
	802.11ac-VHT20 MCS9	52	5260	18.43	19.50	98.15
		56	5280	18.38	19.50	
		60	5300	18.52	19.50	
		64	5320	18.28	19.50	
	802.11ac-VHT40 MCS9	54	5270	18.27	19.50	96.30
		62	5310	14.45	16.00	
	802.11ac-VHT80 MCS9	58	5290	11.95	13.50	92.71

5.5GHz WLAN				Ant 3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	18.22	19.50	98.26
		116	5580	18.23	19.50	
		124	5620	17.94	19.50	
		132	5660	17.98	19.50	
		140	5700	16.85	18.50	
		144	5720	18.02	19.50	
	802.11n-HT20 MCS9	100	5500	18.10	19.50	98.14
		116	5580	18.01	19.50	
		124	5620	17.80	19.50	
		132	5660	17.84	19.50	
		140	5700	17.73	19.50	
		144	5720	17.79	19.50	
	802.11n-HT40 MCS9	102	5510	15.15	17.00	96.30
		110	5550	17.79	19.50	
		126	5630	17.76	19.50	
		134	5670	16.77	18.50	
		142	5710	17.71	19.50	
	802.11ac-VHT20 MCS9	100	5500	18.11	19.50	98.15
		116	5580	18.02	19.50	
		124	5620	17.86	19.50	
		132	5660	17.89	19.50	
		140	5700	17.84	19.50	
		144	5720	17.82	19.50	
	802.11ac-VHT40 MCS9	102	5510	15.24	17.00	96.30
		110	5550	17.92	19.50	
		126	5630	17.81	19.50	
		134	5670	16.81	18.50	
		142	5710	17.77	19.50	
	802.11ac-VHT80 MCS9	106	5530	12.52	14.50	92.71
		122	5610	17.76	19.50	
		138	5690	17.60	19.50	

5.8GHz WLAN				Ant 3		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	17.91	19.50	98.26
		157	5785	18.09	19.50	
		165	5825	18.10	19.50	
	802.11n-HT20 MCS9	149	5745	17.83	19.50	98.14
		157	5785	17.84	19.50	
		165	5825	17.95	19.50	
	802.11n-HT40 MCS9	151	5755	17.62	19.50	96.30
		159	5795	17.67	19.50	
	802.11ac-VHT20 MCS9	149	5745	17.91	19.50	98.15
		157	5785	17.94	19.50	
		165	5825	17.99	19.50	
	802.11ac-VHT40 MCS9	151	5755	17.77	19.50	96.30
		159	5795	17.73	19.50	
	802.11ac-VHT80 MCS9	155	5775	17.81	19.50	92.71



Reduced Power Mode for receiver on

5.2GHz WLAN			Ant 3			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle (%)
5.2GHz WLAN	802.11a 6Mbps	36	5180	16.01	18.00	98.26
		40	5200	17.09	18.50	
		44	5220	17.23	18.50	
	802.11n-HT20 MCS9	48	5240	17.20	18.50	98.14
		36	5180	16.49	18.00	
		40	5200	17.05	18.50	
	802.11n-HT40 MCS9	44	5220	17.21	18.50	96.30
		48	5240	17.04	18.50	
		36	5180	16.53	18.00	
	802.11ac-VHT20 MCS9	40	5200	16.96	18.50	98.15
		44	5220	17.21	18.50	
		48	5240	17.19	18.50	
802.11ac-VHT40 MCS9	38	5190	13.33	15.00	96.30	
	46	5230	17.07	18.50		
	802.11ac-VHT80 MCS9	42	5210	11.11		13.00

5.3GHz WLAN			Ant 3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle (%)
5.3GHz WLAN	802.11a 6Mbps	52	5260	17.39	18.50
		56	5280	17.36	18.50
		60	5300	17.42	18.50
	802.11n-HT20 MCS9	64	5320	17.34	18.50
		52	5260	17.39	18.50
		56	5280	17.32	18.50
	802.11n-HT40 MCS9	60	5300	17.38	18.50
		64	5320	17.33	18.50
		802.11ac-VHT20 MCS9	54	5270	17.15
	62		5310	14.34	16.00
	52		5260	17.31	18.50
	802.11ac-VHT40 MCS9	56	5280	17.38	18.50
60		5300	17.35	18.50	
64		5320	17.16	18.50	
802.11ac-VHT80 MCS9	54	5270	17.21	18.50	
	62	5310	14.45	16.00	
	58	5290	11.95	13.50	

5.5GHz WLAN				Ant 3	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	14.10	15.50
		116	5580	14.13	15.50
		124	5620	13.94	15.50
		132	5660	13.98	15.50
		140	5700	13.85	15.50
		144	5720	14.02	15.50
	802.11n-HT20 MCS9	100	5500	14.10	15.50
		116	5580	14.01	15.50
		124	5620	13.80	15.50
		132	5660	13.84	15.50
		140	5700	13.73	15.50
		144	5720	13.79	15.50
	802.11n-HT40 MCS9	102	5510	13.81	15.50
		110	5550	13.95	15.50
		126	5630	13.84	15.50
		134	5670	13.77	15.50
		142	5710	13.71	15.50
	802.11ac-VHT20 MCS9	100	5500	14.01	15.50
		116	5580	14.02	15.50
		124	5620	13.86	15.50
		132	5660	13.89	15.50
		140	5700	13.84	15.50
		144	5720	13.82	15.50
	802.11ac-VHT40 MCS9	102	5510	13.82	15.50
		110	5550	13.92	15.50
		126	5630	13.81	15.50
		134	5670	13.89	15.50
		142	5710	13.77	15.50
	802.11ac-VHT80 MCS9	106	5530	12.52	14.50
		122	5610	13.76	15.50
		138	5690	13.60	15.50

5.8GHz WLAN				Ant 3	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	14.89	16.50
		157	5785	15.06	16.50
		165	5825	15.09	16.50
	802.11n-HT20 MCS9	149	5745	14.74	16.50
		157	5785	14.94	16.50
		165	5825	14.95	16.50
	802.11n-HT40 MCS9	151	5755	14.62	16.50
		159	5795	14.67	16.50
		149	5745	14.98	16.50
	802.11ac-VHT20 MCS9	157	5785	14.96	16.50
		165	5825	14.94	16.50
	802.11ac-VHT80 MCS9	151	5755	14.77	16.50
		159	5795	14.63	16.50
		155	5775	14.78	16.50



Reduced Power Mode for Hotspot on

5.2GHz WLAN				Ant 3		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	16.01	18.00	98.26
		40	5200	17.00	18.50	
		44	5220	17.25	18.50	
		48	5240	17.18	18.50	
	802.11n-HT20 MCS0	36	5180	16.49	18.00	98.14
		40	5200	16.97	18.50	
		44	5220	17.23	18.50	
		48	5240	16.98	18.50	
	802.11n-HT40 MCS0	38	5190	13.29	15.00	96.30
		46	5230	16.90	18.50	
	802.11ac-VHT20 MCS0	36	5180	16.53	18.00	98.15
		40	5200	16.91	18.50	
		44	5220	17.23	18.50	
		48	5240	17.14	18.50	
	802.11ac-VHT40 MCS0	38	5190	13.33	15.00	96.30
		46	5230	17.02	18.50	
	802.11ac-VHT80 MCS0	42	5210	11.11	13.00	92.71

5.8GHz WLAN				Ant 3		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	15.50	17.00	98.26
		157	5785	15.48	17.00	
		165	5825	15.54	17.00	
	802.11n-HT20 MCS0	149	5745	15.33	17.00	98.14
		157	5785	15.32	17.00	
		165	5825	15.29	17.00	
	802.11n-HT40 MCS0	151	5755	15.12	17.00	96.30
		159	5795	15.16	17.00	
	802.11ac-VHT20 MCS0	149	5745	15.37	17.00	98.15
		157	5785	15.51	17.00	
		165	5825	15.53	17.00	
	802.11ac-VHT40 MCS0	151	5755	15.27	17.00	96.30
		159	5795	15.23	17.00	
	802.11ac-VHT80 MCS0	155	5775	15.33	17.00	92.71

**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	11.61	11.91	12.28	9.62	9.15	9.09	9.28	8.99	8.95	13.5
	CH 39	2441	12.42	12.86	12.90	10.33	9.88	9.64	10.36	9.92	9.62	
	CH 78	2480	11.47	11.71	11.85	9.53	8.72	8.67	9.48	8.74	8.57	

BT LE

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	6.79
	CH 19	2440	7.84
	CH 39	2480	6.77
Tune-up Limit			8.5