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

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

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.49	0.64	0.64	± 10.1 %
DCP (mV) ^B	98.7	98.0	100.2	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	141.9	± 3.3 %	± 4.7 %
		Y	0.00	0.00	1.00		147.9		
		Z	0.00	0.00	1.00		140.2		
10352- AAA	Pulse Waveform (200Hz, 10%)	X	20.00	90.99	20.31	10.00	60.0	± 5.0 %	± 9.6 %
		Y	1.73	62.68	7.95		60.0		
		Z	20.00	89.57	19.31		60.0		
10353- AAA	Pulse Waveform (200Hz, 20%)	X	20.00	94.58	20.87	6.99	80.0	± 3.6 %	± 9.6 %
		Y	1.04	61.29	6.51		80.0		
		Z	20.00	91.83	19.22		80.0		
10354- AAA	Pulse Waveform (200Hz, 40%)	X	20.00	103.41	23.67	3.98	95.0	± 2.0 %	± 9.6 %
		Y	0.60	60.86	5.79		95.0		
		Z	20.00	97.87	20.76		95.0		
10355- AAA	Pulse Waveform (200Hz, 60%)	X	20.00	115.34	27.78	2.22	120.0	± 1.4 %	± 9.6 %
		Y	4.08	74.83	10.54		120.0		
		Z	20.00	105.67	23.18		120.0		
10387- AAA	QPSK Waveform, 1 MHz	X	1.67	65.65	14.91	1.00	150.0	± 2.1 %	± 9.6 %
		Y	1.93	69.45	16.89		150.0		
		Z	1.56	64.76	14.15		150.0		
10388- AAA	QPSK Waveform, 10 MHz	X	2.20	67.50	15.58	0.00	150.0	± 1.0 %	± 9.6 %
		Y	2.51	70.39	17.32		150.0		
		Z	2.04	66.25	14.83		150.0		
10396- AAA	64-QAM Waveform, 100 kHz	X	3.07	71.62	19.40	3.01	150.0	± 1.0 %	± 9.6 %
		Y	2.90	71.59	19.95		150.0		
		Z	2.28	66.15	16.69		150.0		
10399- AAA	64-QAM Waveform, 40 MHz	X	3.52	66.96	15.73	0.00	150.0	± 0.9 %	± 9.6 %
		Y	3.68	68.09	16.54		150.0		
		Z	3.39	66.32	15.31		150.0		
10414- AAA	WLAN CCDF, 64-QAM, 40MHz	X	4.89	65.57	15.51	0.00	150.0	± 2.0 %	± 9.6 %
		Y	4.79	65.62	15.73		150.0		
		Z	4.78	65.30	15.29		150.0		

Note: For details on UID parameters see Appendix

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

^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter: uncertainty not required.

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

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

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $ms.V^{-2}$	T2 $ms.V^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	46.7	346.28	35.16	8.64	0.07	5.04	1.99	0.09	1.01
Y	39.4	296.06	36.05	10.26	0.00	4.93	1.13	0.16	1.01
Z	42.2	313.44	35.10	8.06	0.00	5.02	0.41	0.26	1.00

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-68.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an *Area Scan* job.

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

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	10.47	10.47	10.47	0.49	0.93	± 12.0 %
835	41.5	0.90	10.19	10.19	10.19	0.51	0.80	± 12.0 %
900	41.5	0.97	9.96	9.96	9.96	0.47	0.84	± 12.0 %
1750	40.1	1.37	8.73	8.73	8.73	0.41	0.86	± 12.0 %
1900	40.0	1.40	8.33	8.33	8.33	0.31	0.86	± 12.0 %
2000	40.0	1.40	8.28	8.28	8.28	0.38	0.86	± 12.0 %
2300	39.5	1.67	7.91	7.91	7.91	0.33	0.90	± 12.0 %
2450	39.2	1.80	7.67	7.67	7.67	0.42	0.90	± 12.0 %
2600	39.0	1.96	7.47	7.47	7.47	0.44	0.90	± 12.0 %
3300	38.2	2.71	6.89	6.89	6.89	0.30	1.35	± 14.0 %
3500	37.9	2.91	6.62	6.62	6.62	0.30	1.35	± 14.0 %
3700	37.7	3.12	6.59	6.59	6.59	0.30	1.35	± 14.0 %
3900	37.5	3.32	6.40	6.40	6.40	0.40	1.40	± 14.0 %
4100	37.2	3.53	6.25	6.25	6.25	0.40	1.40	± 14.0 %
4400	36.9	3.84	6.04	6.04	6.04	0.40	1.60	± 14.0 %
4600	36.7	4.04	5.91	5.91	5.91	0.40	1.60	± 14.0 %
4800	36.4	4.25	5.80	5.80	5.80	0.40	1.80	± 14.0 %
4950	36.3	4.40	5.50	5.50	5.50	0.40	1.80	± 14.0 %
5250	35.9	4.71	5.17	5.17	5.17	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.60	4.60	4.60	0.40	1.80	± 14.0 %
5750	35.4	5.22	4.75	4.75	4.75	0.40	1.80	± 14.0 %

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

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

^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 frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Calibration Parameter Determined in Head Tissue Simulating Media

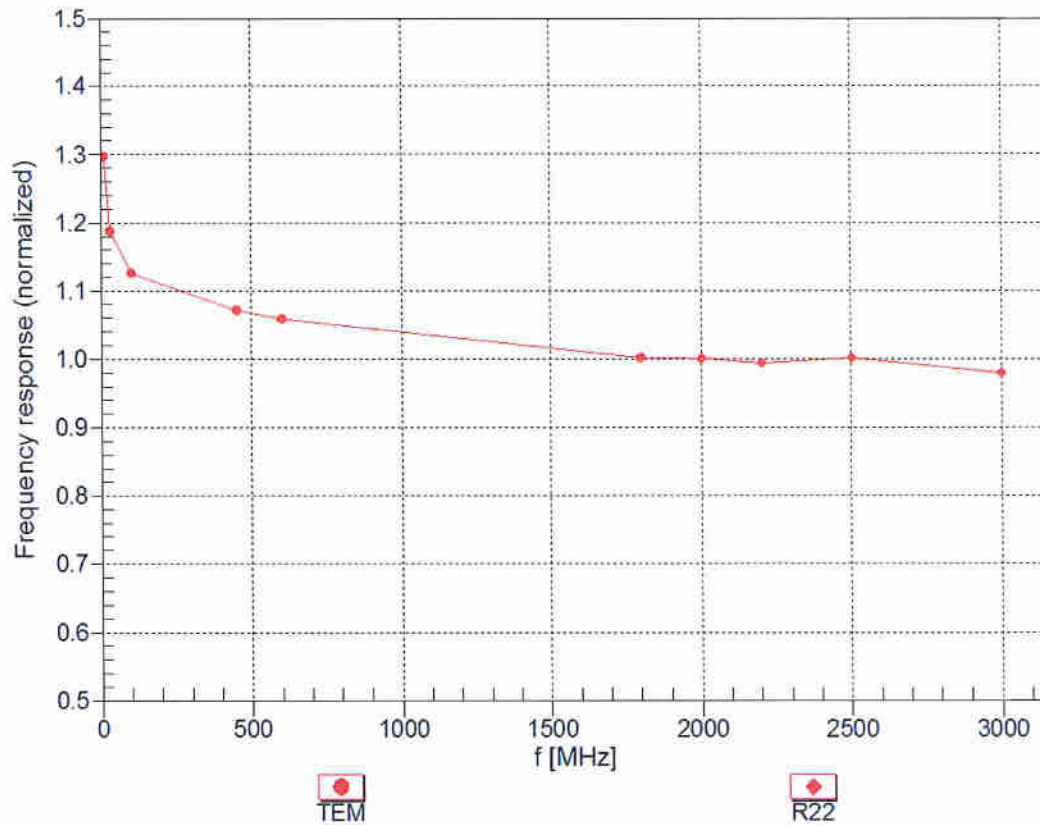
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
6500	34.5	6.07	5.70	5.70	5.70	0.20	2.50	± 18.6 %

^C Frequency validity above 6GHz is ± 700 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

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

^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; below ± 2% for frequencies between 3-6 GHz; and below ± 4% for frequencies between 6-10 GHz at any distance larger than half the probe tip diameter from the boundary.

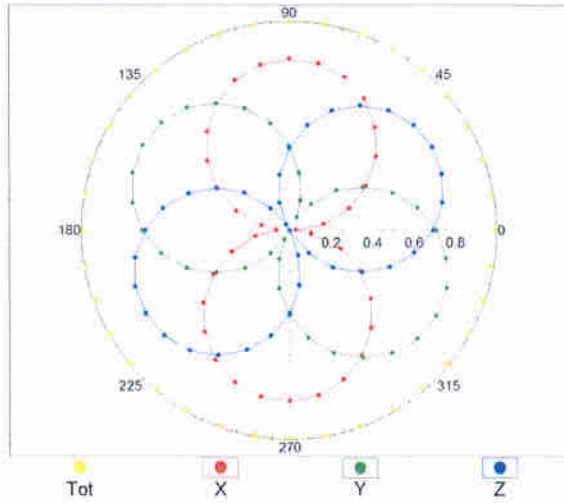
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



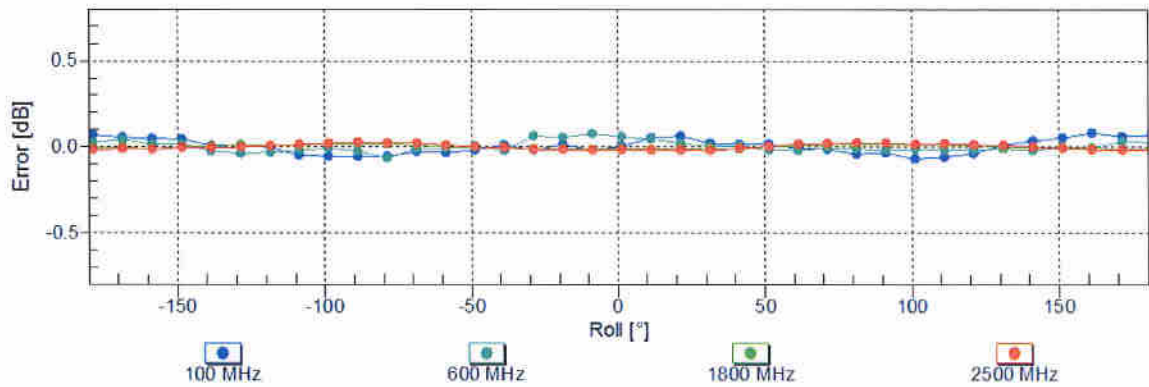
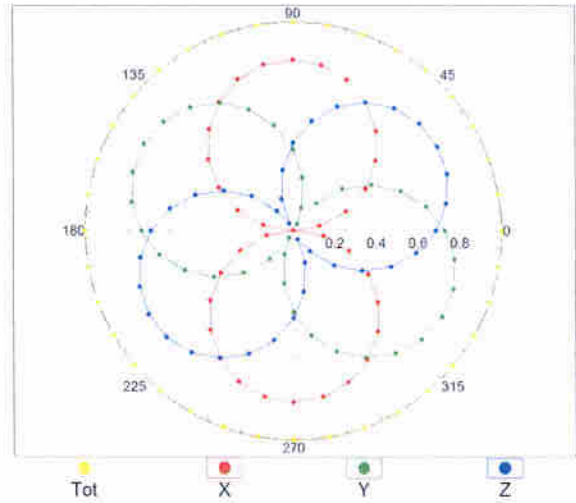
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

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

f=600 MHz,TEM

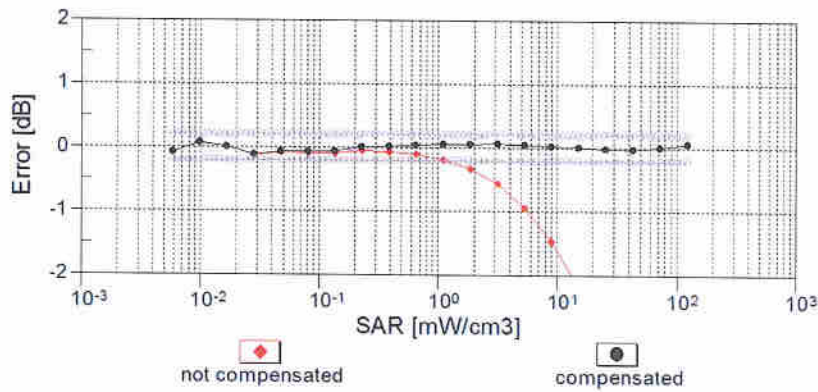
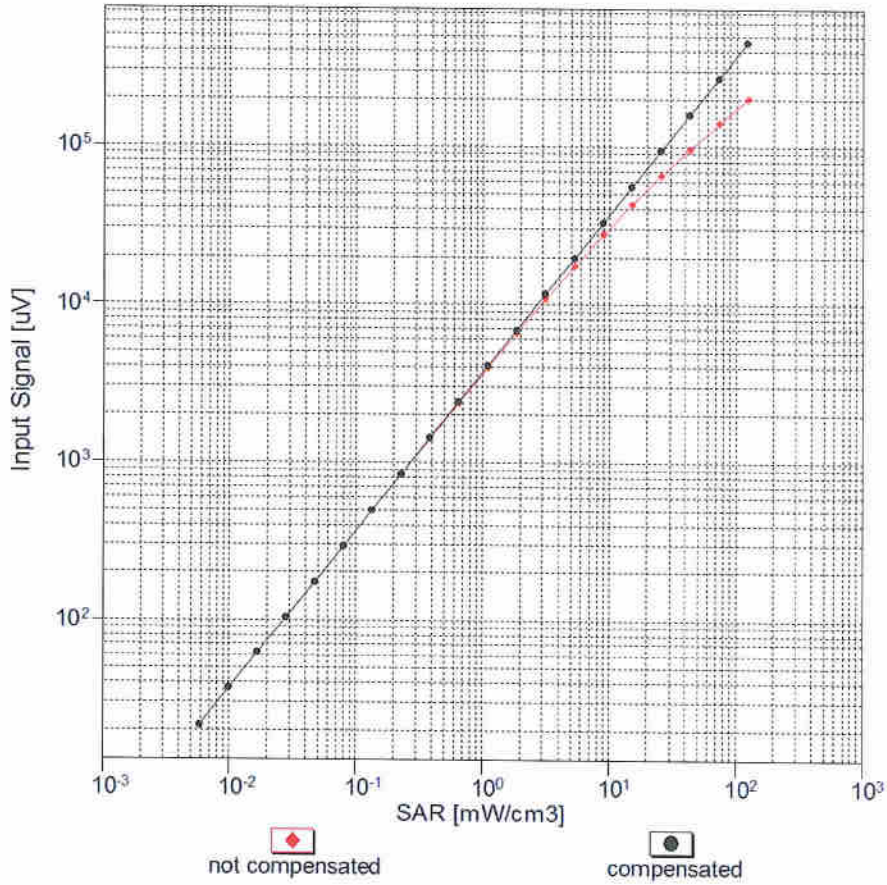


f=1800 MHz,R22



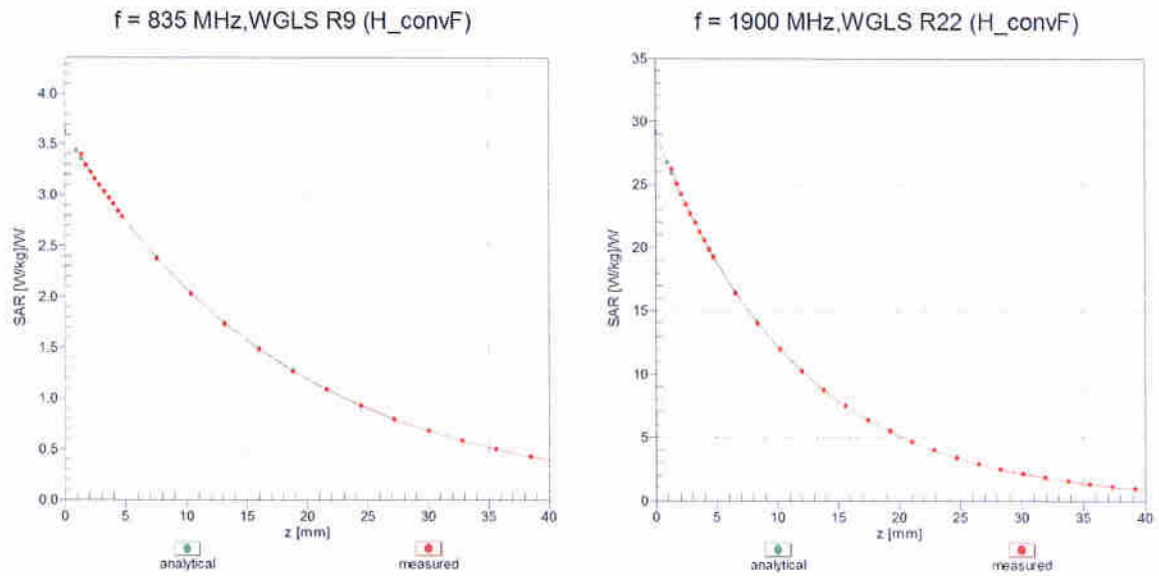
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)

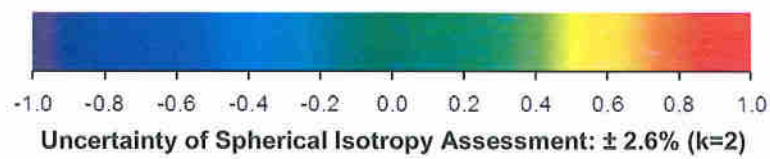
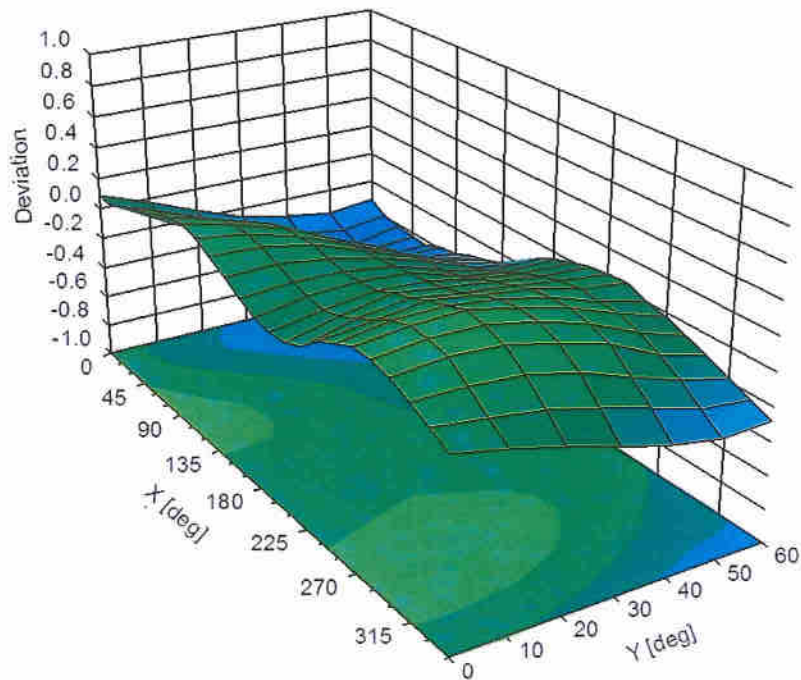


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ, θ), f = 900 MHz



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	DAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %

10099	CAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	DAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAG	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAG	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAG	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAG	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10171	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10172	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10174	CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10179	AAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %

10181	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10182	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10185	CAI	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10189	CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	± 9.6 %
10194	AAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	± 9.6 %
10195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	± 9.6 %
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10197	AAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10198	CAF	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10219	CAF	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %
10220	AAF	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAD	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
10226	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	DAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10233	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	± 9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	± 9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10254	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %

10260	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAD	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAD	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAD	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAG	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	CAG	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	CAG	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	CAG	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	CAG	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	CAG	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10299	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %
10300	CAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	CAC	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	± 9.6 %
10302	CAB	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WiMAX	12.57	± 9.6 %
10303	CAB	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	CAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	CAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	15.24	± 9.6 %
10306	CAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	14.67	± 9.6 %
10307	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WiMAX	14.49	± 9.6 %
10308	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3)	WiMAX	14.58	± 9.6 %
10310	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3)	WiMAX	14.57	± 9.6 %
10311	AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAD	iDEN 1:3	iDEN	10.51	± 9.6 %
10314	AAD	iDEN 1:6	iDEN	13.48	± 9.6 %
10315	AAD	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	1.71	± 9.6 %
10316	AAD	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10317	AAA	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.37	± 9.6 %
10401	AAA	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	± 9.6 %
10402	AAA	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAD	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %

10410	AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAE	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAE	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAE	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAG	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10447	AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAC	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAC	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAC	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAC	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAC	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAC	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 %
10463	AAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10467	AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10469	AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10470	AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10471	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10472	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10473	AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10474	AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10475	AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10477	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10478	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	± 9.6 %
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10482	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	± 9.6 %
10483	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	± 9.6 %
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	± 9.6 %
10485	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.59	± 9.6 %
10486	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	± 9.6 %
10487	AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	± 9.6 %

10488	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	± 9.6 %
10489	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	± 9.6 %
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	± 9.6 %
10496	AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10497	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10498	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	± 9.6 %
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	± 9.6 %
10500	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10501	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	± 9.6 %
10503	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	± 9.6 %
10504	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10505	AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10506	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10507	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	± 9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	± 9.6 %
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	± 9.6 %
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.42	± 9.6 %
10514	AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10515	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10516	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	± 9.6 %
10517	AAF	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10518	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10519	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.08	± 9.6 %
10524	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAN	8.27	± 9.6 %
10525	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.36	± 9.6 %
10526	AAF	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.42	± 9.6 %
10527	AAF	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8.21	± 9.6 %
10528	AAF	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	± 9.6 %
10529	AAF	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6 %
10531	AAF	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6 %
10532	AAF	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10533	AAE	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	± 9.6 %
10534	AAE	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	± 9.6 %
10535	AAE	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	± 9.6 %
10536	AAF	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	± 9.6 %
10537	AAF	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.44	± 9.6 %
10538	AAF	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	± 9.6 %
10540	AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	± 9.6 %
10541	AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.46	± 9.6 %
10542	AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.65	± 9.6 %
10543	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8.65	± 9.6 %
10544	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.47	± 9.6 %
10545	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %

10546	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	± 9.6 %
10547	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)	WLAN	8.49	± 9.6 %
10548	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)	WLAN	8.37	± 9.6 %
10550	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.38	± 9.6 %
10551	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	± 9.6 %
10553	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10564	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10566	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10573	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10580	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10588	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10589	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10591	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	± 9.6 %
10592	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10595	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
10596	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10598	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10599	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6 %
10600	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10601	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	± 9.6 %
10602	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.94	± 9.6 %
10603	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	± 9.6 %

10604	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
10605	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
10606	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10607	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
10610	AAC	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.78	± 9.6 %
10611	AAC	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAC	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10613	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
10614	AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 %
10615	AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10616	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10617	AAC	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAC	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10619	AAC	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 %
10620	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
10621	AAC	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10623	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10624	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	± 9.6 %
10625	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)	WLAN	8.96	± 9.6 %
10626	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10627	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10628	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9.6 %
10629	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10630	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 %
10631	AAC	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10632	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10633	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
10634	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)	WLAN	8.80	± 9.6 %
10635	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6 %
10646	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAC	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAC	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAC	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAC	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAC	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAC	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAC	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAC	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAD	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6 %

10672	AAD	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
10673	AAD	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10674	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10675	AAD	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
10676	AAD	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10677	AAD	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10678	AAD	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
10679	AAD	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
10680	AAD	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
10681	AAG	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAF	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10684	AAC	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	± 9.6 %
10685	AAC	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10686	AAC	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	± 9.6 %
10687	AAE	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
10688	AAE	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
10689	AAD	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	± 9.6 %
10690	AAE	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10691	AAB	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6 %
10706	AAC	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6 %
10707	AAC	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	± 9.6 %
10708	AAC	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10709	AAC	IEEE 802.11ax (40MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10710	AAC	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.29	± 9.6 %
10711	AAC	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.39	± 9.6 %
10712	AAC	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.67	± 9.6 %
10713	AAC	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	± 9.6 %
10714	AAC	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	± 9.6 %
10715	AAC	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	± 9.6 %
10716	AAC	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	± 9.6 %
10717	AAC	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8.48	± 9.6 %
10718	AAC	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.24	± 9.6 %
10719	AAC	IEEE 802.11ax (80MHz, MCS0, 90pc dc)	WLAN	8.81	± 9.6 %
10720	AAC	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN	8.87	± 9.6 %
10721	AAC	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6 %
10722	AAC	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8.55	± 9.6 %
10723	AAC	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10724	AAC	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.90	± 9.6 %
10725	AAC	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10726	AAC	IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	± 9.6 %
10727	AAC	IEEE 802.11ax (80MHz, MCS8, 90pc dc)	WLAN	8.66	± 9.6 %

10728	AAC	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	WLAN	8.65	± 9.6 %
10729	AAC	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.64	± 9.6 %
10730	AAC	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	± 9.6 %
10731	AAC	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10732	AAC	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	± 9.6 %
10733	AAC	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	± 9.6 %
10734	AAC	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	± 9.6 %
10735	AAC	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	± 9.6 %
10736	AAC	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	8.27	± 9.6 %
10737	AAC	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8.36	± 9.6 %
10738	AAC	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	WLAN	8.42	± 9.6 %
10739	AAC	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8.29	± 9.6 %
10740	AAC	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8.48	± 9.6 %
10741	AAC	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	± 9.6 %
10742	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	± 9.6 %
10743	AAC	IEEE 802.11ax (160MHz, MCS0, 90pc dc)	WLAN	8.94	± 9.6 %
10744	AAC	IEEE 802.11ax (160MHz, MCS1, 90pc dc)	WLAN	9.16	± 9.6 %
10745	AAC	IEEE 802.11ax (160MHz, MCS2, 90pc dc)	WLAN	8.93	± 9.6 %
10746	AAC	IEEE 802.11ax (160MHz, MCS3, 90pc dc)	WLAN	9.11	± 9.6 %
10747	AAC	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WLAN	9.04	± 9.6 %
10748	AAC	IEEE 802.11ax (160MHz, MCS5, 90pc dc)	WLAN	8.93	± 9.6 %
10749	AAC	IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WLAN	8.90	± 9.6 %
10750	AAC	IEEE 802.11ax (160MHz, MCS7, 90pc dc)	WLAN	8.79	± 9.6 %
10751	AAC	IEEE 802.11ax (160MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10752	AAC	IEEE 802.11ax (160MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10753	AAC	IEEE 802.11ax (160MHz, MCS10, 90pc dc)	WLAN	9.00	± 9.6 %
10754	AAC	IEEE 802.11ax (160MHz, MCS11, 90pc dc)	WLAN	8.94	± 9.6 %
10755	AAC	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	± 9.6 %
10756	AAC	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	± 9.6 %
10757	AAC	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.77	± 9.6 %
10758	AAC	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.69	± 9.6 %
10759	AAC	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	± 9.6 %
10760	AAC	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	± 9.6 %
10761	AAC	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	± 9.6 %
10762	AAC	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	± 9.6 %
10763	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.53	± 9.6 %
10764	AAC	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	± 9.6 %
10765	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	± 9.6 %
10766	AAC	IEEE 802.11ax (160MHz, MCS11, 99pc dc)	WLAN	8.51	± 9.6 %
10767	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10775	AAC	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10776	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10780	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %

10784	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10785	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAD	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10823	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %

10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10897	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAD	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAD	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAD	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %

10922	AAD	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAB	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10954	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6 %
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %

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



Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.



Conducted Full Power level/Default Power level/ Pmax Power Level for WWAN

DSI2/DSI4									
GSM850_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)									
GSM 1 Tx slot	31.94	31.66	31.76	33.00	22.94	22.66	22.76	24.00	
GPRS 1 Tx slot	31.88	31.62	31.71	33.00	22.88	22.62	22.71	24.00	
GPRS 2 Tx slots	28.77	28.68	28.63	29.50	22.77	22.68	22.63	23.50	
GPRS 3 Tx slots	27.52	27.51	27.38	28.50	23.26	23.25	23.12	24.24	
GPRS 4 Tx slots	25.66	25.57	25.52	26.50	22.66	22.57	22.52	23.50	
EDGE 1 Tx slot	24.89	24.62	24.75	25.50	15.89	15.62	15.75	16.50	
EDGE 2 Tx slots	23.15	23.17	22.98	24.00	17.15	17.17	16.98	18.00	
EDGE 3 Tx slots	21.73	21.80	21.78	22.50	17.47	17.54	17.52	18.24	
EDGE 4 Tx slots	19.99	20.16	20.07	21.00	16.99	17.16	17.07	18.00	

DSI2/DSI4									
GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)									
GSM 1 Tx slot	32.50	32.38	32.20	33.50	23.50	23.38	23.20	24.50	
GPRS 1 Tx slot	32.41	32.33	32.17	33.50	23.41	23.33	23.17	24.50	
GPRS 2 Tx slots	29.40	29.14	28.97	30.00	23.40	23.14	22.97	24.00	
GPRS 3 Tx slots	28.39	28.33	28.35	29.00	24.13	24.07	24.09	24.74	
GPRS 4 Tx slots	26.30	26.08	25.51	27.00	23.30	23.08	22.51	24.00	
EDGE 1 Tx slot	25.46	25.43	25.49	26.00	16.46	16.43	16.49	17.00	
EDGE 2 Tx slots	24.00	23.77	23.74	24.50	18.00	17.77	17.74	18.50	
EDGE 3 Tx slots	22.84	22.53	22.50	23.50	18.58	18.27	18.24	19.24	
EDGE 4 Tx slots	20.80	20.88	20.86	21.50	17.80	17.88	17.86	18.50	

DSI2/DSI4									
GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		512	661	810		
TX Channel	1860.2	1880	1900.8		1860.2	1880	1900.8		
Frequency (MHz)									
GSM 1 Tx slot	29.09	28.87	29.17	30.00	20.09	19.87	20.17	21.00	
GPRS 1 Tx slot	29.07	28.81	29.16	30.00	20.07	19.81	20.16	21.00	
GPRS 2 Tx slots	26.35	26.84	26.52	27.50	20.35	20.84	20.52	21.50	
GPRS 3 Tx slots	25.68	25.54	25.10	26.50	21.32	21.28	20.84	22.24	
GPRS 4 Tx slots	23.38	23.41	23.52	24.50	20.38	20.41	20.52	21.50	
EDGE 1 Tx slot	24.58	24.25	24.67	25.50	15.58	15.25	15.67	16.50	
EDGE 2 Tx slots	22.92	22.85	22.98	24.00	16.92	16.85	16.98	18.00	
EDGE 3 Tx slots	21.48	21.45	21.62	22.50	17.22	17.19	17.36	18.24	
EDGE 4 Tx slots	19.69	19.76	19.88	21.00	16.69	16.76	16.88	18.00	

Band	DSI2/DSI4			Tune-up Limit (dBm)	DSI2/DSI4			Tune-up Limit (dBm)	DSI4			Tune-up Limit (dBm)
	WCDMA II_Ant 0				WCDMA IV_Ant 0				WCDMA V_Ant 1			
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4387	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1724	1753	1782.3		4284	4304	4355	
3GPP Rel 99 AMR 12.2Kbps	23.66	23.71	23.76	25.00	24.02	24.06	23.94	25.00	23.72	23.71	23.76	25.00
3GPP Rel 99 RMC 12.2Kbps	23.69	23.73	23.81	25.00	24.04	24.11	23.96	25.00	23.77	23.76	23.82	25.00
3GPP Rel 6 HSDPA Subtest-1	22.68	22.74	22.80	24.00	22.92	23.00	22.80	24.00	22.62	22.62	22.72	24.00
3GPP Rel 6 HSDPA Subtest-2	22.72	22.75	22.81	24.00	22.91	23.01	22.85	24.00	22.63	22.64	22.76	24.00
3GPP Rel 6 HSDPA Subtest-3	22.24	22.25	22.30	23.50	22.40	22.47	22.27	23.50	22.13	22.14	21.89	23.50
3GPP Rel 6 HSDPA Subtest-4	22.19	22.27	22.34	23.50	22.43	22.53	22.28	23.50	22.14	22.12	22.24	23.50
3GPP Rel 6 DC-HSDPA Subtest-1	22.52	22.58	22.57	24.00	22.71	22.79	22.64	24.00	22.62	22.53	22.50	24.00
3GPP Rel 6 DC-HSDPA Subtest-2	22.56	22.66	22.81	24.00	22.73	22.95	22.61	24.00	22.62	22.43	22.66	24.00
3GPP Rel 6 DC-HSDPA Subtest-3	22.23	22.20	22.13	23.50	22.26	22.25	22.17	23.50	22.10	21.98	21.82	23.50
3GPP Rel 6 DC-HSDPA Subtest-4	22.12	22.18	22.09	23.50	22.36	22.43	22.27	23.50	21.91	22.07	22.12	23.50
3GPP Rel 6 HSUPA Subtest-1	22.70	22.74	22.82	24.00	22.22	22.28	22.13	24.00	22.63	22.71	22.81	24.00
3GPP Rel 6 HSUPA Subtest-2	20.69	20.74	20.88	22.00	20.18	20.20	20.15	22.00	20.68	20.69	20.80	22.00
3GPP Rel 6 HSUPA Subtest-3	21.66	21.75	21.86	23.00	21.19	21.25	21.09	23.00	21.62	21.72	21.81	23.00
3GPP Rel 6 HSUPA Subtest-4	20.71	20.74	20.87	22.00	20.16	20.25	20.15	22.00	20.68	20.68	20.80	22.00
3GPP Rel 6 HSUPA Subtest-5	22.70	22.70	22.90	24.00	22.20	22.20	22.10	24.00	22.70	22.70	22.80	24.00

DSI2/DSI4				
Band	WCDMA V_Ant 0			Tune-up Limit (dBm)
	4132	4182	4233	
TX Channel	4357	4407	4458	
Rx Channel	4357	4407	4458	
Frequency (MHz)	4284	4304	4355	
3GPP Rel 99 AMR 12.2Kbps	24.21	24.27	24.28	25.00
3GPP Rel 99 RMC 12.2Kbps	24.24	24.28	24.29	25.00
3GPP Rel 6 HSDPA Subtest-1	23.03	23.20	23.22	24.00
3GPP Rel 6 HSDPA Subtest-2	23.01	23.21	23.23	24.00
3GPP Rel 6 HSDPA Subtest-3	22.48	22.69	22.74	23.50
3GPP Rel 6 HSDPA Subtest-4	22.51	22.72	22.72	23.50
3GPP Rel 6 DC-HSDPA Subtest-1	23.01	23.17	23.20	24.00
3GPP Rel 6 DC-HSDPA Subtest-2	22.99	23.18	23.21	24.00
3GPP Rel 6 DC-HSDPA Subtest-3	22.46	22.66	22.72	23.50
3GPP Rel 6 DC-HSDPA Subtest-4	22.49	22.69	22.70	23.50
3GPP Rel 6 HSUPA Subtest-1	23.71	23.77	23.56	24.00
3GPP Rel 6 HSUPA Subtest-2	21.64	21.83	21.85	22.00
3GPP Rel 6 HSUPA Subtest-3	22.86	22.82	22.70	23.00
3GPP Rel 6 HSUPA Subtest-4	21.74	21.78	21.59	22.00
3GPP Rel 6 HSUPA Subtest-5	22.72	22.72	22.54	24.00

**Band 2_Ant 0-DS12/DS14**

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	22.66	22.54	22.60	24	0
20	QPSK	1	49	22.51	22.53	22.58		
20	QPSK	1	99	22.37	22.41	22.41	23	1
20	QPSK	50	0	21.69	21.67	21.68		
20	QPSK	50	24	21.66	21.55	21.65	23	1
20	QPSK	50	50	21.53	21.80	21.65		
20	QPSK	100	0	21.66	21.62	21.64	23	1
20	16QAM	1	0	22.04	21.85	21.93		
20	16QAM	1	49	21.83	21.81	21.95	22	2
20	16QAM	1	99	21.70	21.80	21.73		
20	16QAM	50	0	20.68	20.57	20.68	22	2
20	16QAM	50	24	20.66	20.56	20.66		
20	16QAM	50	50	20.54	20.58	20.64	22	2
20	16QAM	100	0	20.67	20.62	20.67		
20	64QAM	1	0	20.82	20.63	20.79	22	2
20	64QAM	1	49	20.72	20.72	20.81		
20	64QAM	1	99	20.66	20.61	20.63	21	3
20	64QAM	50	0	19.71	19.61	19.71		
20	64QAM	50	24	19.68	19.63	19.69	21	3
20	64QAM	50	50	19.28	19.23	19.29		
20	64QAM	100	0	19.67	19.62	19.68	21	3
20	64QAM	100	0	19.67	19.62	19.68		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.10	22.16	22.23	24	0
15	QPSK	1	37	22.02	22.20	22.39		
15	QPSK	1	74	22.06	22.10	22.14	23	1
15	QPSK	36	0	21.18	21.20	21.41		
15	QPSK	36	20	21.15	21.29	21.38	23	1
15	QPSK	36	39	21.09	21.26	21.38		
15	QPSK	75	0	21.15	21.25	21.35	23	1
15	16QAM	1	0	21.59	21.40	21.57		
15	16QAM	1	99	21.70	21.80	21.73	22	2
15	16QAM	50	0	20.17	20.18	20.37		
15	16QAM	36	20	20.19	20.29	20.36	22	2
15	16QAM	36	39	20.10	20.23	20.36		
15	16QAM	75	0	20.17	20.24	20.34	22	2
15	64QAM	1	0	20.32	20.23	20.42		
15	64QAM	1	37	20.17	20.35	20.49	21	3
15	64QAM	1	74	20.08	20.21	20.36		
15	64QAM	36	0	19.21	19.25	19.42	21	3
15	64QAM	36	20	19.19	19.26	19.42		
15	64QAM	36	39	19.14	19.26	19.39	21	3
15	64QAM	75	0	19.15	19.26	19.37		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.23	22.22	22.43	24	0
10	QPSK	1	25	22.07	22.22	22.34		
10	QPSK	1	49	22.06	22.21	22.20	23	1
10	QPSK	25	0	21.28	21.32	21.54		
10	QPSK	25	12	21.24	21.27	21.48	23	1
10	QPSK	25	25	21.16	21.30	21.43		
10	QPSK	50	0	21.22	21.32	21.48	23	1
10	16QAM	1	0	21.55	21.60	21.83		
10	16QAM	1	25	21.45	21.59	21.74	23	1
10	16QAM	1	49	21.41	21.49	21.55		
10	16QAM	25	0	20.35	20.30	20.53	22	2
10	16QAM	25	12	20.28	20.28	20.53		
10	16QAM	25	25	20.15	20.27	20.52	22	2
10	16QAM	50	0	20.25	20.35	20.47		
10	64QAM	1	0	20.54	20.37	20.57	22	2
10	64QAM	1	25	20.31	20.41	20.53		
10	64QAM	1	49	20.28	20.34	20.56	21	3
10	64QAM	1	99	19.38	19.35	19.54		
10	64QAM	25	12	19.30	19.30	19.55	21	3
10	64QAM	25	25	19.18	19.38	19.50		
10	64QAM	50	0	19.31	19.37	19.52	21	3
10	64QAM	50	0	19.31	19.37	19.52		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.26	22.31	22.42	24	0
5	QPSK	1	12	22.15	22.20	22.33		
5	QPSK	1	24	22.08	22.19	22.25	23	1
5	QPSK	12	0	21.31	21.27	21.55		
5	QPSK	12	7	21.22	21.30	21.49	23	1
5	QPSK	12	13	21.25	21.35	21.58		
5	QPSK	25	0	21.22	21.31	21.46	23	1
5	16QAM	1	0	21.55	21.54	21.80		
5	16QAM	1	12	21.43	21.58	21.74	23	1
5	16QAM	1	24	21.35	21.53	21.68		
5	16QAM	12	0	20.35	20.29	20.56	22	2
5	16QAM	12	7	20.30	20.35	20.54		
5	16QAM	12	13	20.16	20.28	20.43	22	2
5	16QAM	25	0	20.26	20.31	20.59		
5	64QAM	1	0	20.44	20.41	20.59	22	2
5	64QAM	1	12	20.25	20.33	20.59		
5	64QAM	1	24	20.34	20.34	20.55	21	3
5	64QAM	12	0	19.39	19.35	19.60		
5	64QAM	12	7	19.33	19.41	19.55	21	3
5	64QAM	12	13	19.21	19.33	19.46		
5	64QAM	25	0	19.28	19.35	19.49	21	3
5	64QAM	25	0	19.28	19.35	19.49		
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.30	22.31	22.42	24	0
3	QPSK	1	8	22.22	22.24	22.37		
3	QPSK	1	14	22.12	22.14	22.21	23	1
3	QPSK	8	0	21.33	21.38	21.49		
3	QPSK	8	4	21.26	21.34	21.53	23	1
3	QPSK	8	7	21.15	21.26	21.38		
3	QPSK	15	0	21.22	21.32	21.49	23	1
3	16QAM	1	0	21.55	21.62	21.70		
3	16QAM	1	8	21.68	21.71	21.72	23	1
3	16QAM	1	14	21.35	21.46	21.51		
3	16QAM	8	0	20.34	20.29	20.63	22	2
3	16QAM	8	4	20.30	20.39	20.54		
3	16QAM	8	7	20.17	20.34	20.43	22	2
3	16QAM	15	0	20.22	20.33	20.51		
3	64QAM	1	0	20.56	20.39	20.71	22	2
3	64QAM	1	8	20.44	20.53	20.70		
3	64QAM	1	14	20.38	20.40	20.47	21	3
3	64QAM	8	0	19.40	19.38	19.57		
3	64QAM	8	4	19.36	19.45	19.52	21	3
3	64QAM	8	7	19.23	19.32	19.53		
3	64QAM	15	0	19.34	19.37	19.60	21	3
3	64QAM	15	0	19.34	19.37	19.60		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	22.27	22.22	22.28	24	0
1.4	QPSK	1	3	22.46	22.38	22.33		
1.4	QPSK	3	0	22.37	22.32	22.19	23	1
1.4	QPSK	3	1	22.41	22.27	22.25		
1.4	QPSK	3	3	22.40	22.13	22.23	23	1
1.4	QPSK	6	0	21.48	21.35	21.32		
1.4	16QAM	1	0	21.31	21.98	21.92	23	1
1.4	16QAM	1	3	21.28	22.09	21.71		
1.4	16QAM	1	5	21.46	21.71	21.80	23	1
1.4	16QAM	3	0	21.44	21.38	21.11		
1.4	16QAM	3	1	21.58	21.33	21.11	22	2
1.4	16QAM	3	3	21.19	21.39	21.39		
1.4	16QAM	6	0	20.61	20.25	20.41	22	2
1.4	64QAM	1	0	20.58	20.42	20.27		
1.4	64QAM	1	3	20.82	20.36	20.24	22	2
1.4	64QAM	1	5	20.52	20.25	20.80		
1.4	64QAM	3	0	20.73	20.45	20.51	22	2
1.4	64QAM	3	1	20.98	20.37	20.62		
1.4	64QAM	3	3	20.43	20.76	20.31	21	3
1.4	64QAM	6	0	19.24	19.46	19.22		

Band 4_Ant 0-DS12/DS14

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	22.36	22.39	22.37	24	0
20	QPSK	1	49	22.27	22.34	22.23		
20	QPSK	1	99	22.17	22.13	22.09	23	1
20	QPSK	50	0	21.44	21.46	21.40		
20	QPSK	50	24	21.40	21.36	21.36	23	1
20	QPSK	50	50	21.34	21.27	21.25		
20	QPSK	100	0	21.37	21.38	21.36	23	1
20	16QAM	1	0	21.70	21.72	21.70		
20	16QAM	1	49	21.62	21.63	21.55	22	2
20	16QAM	1	99	21.55	21.47	21.44		
20	16QAM	50	0	20.37	20.41	20.43	22	2
20	16QAM	50	24	20.42	20.39	20.40		
20	16QAM	50	50	20.35	20.29	20.29	22	2
20	16QAM							



Band 5_Ant 1-DSI2/DSI4									
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)									
10	QPSK	1	0	22.50	22.55	22.57			
10	QPSK	1	25	22.45	22.43	22.56	24	0	
10	QPSK	1	49	22.41	22.50	22.49			
10	QPSK	25	0	21.64	21.62	21.73			
10	QPSK	25	12	21.60	21.61	21.65			
10	QPSK	25	25	21.58	21.59	21.70	23	1	
10	QPSK	50	0	21.61	21.62	21.66			
10	16QAM	1	0	21.78	21.86	21.91			
10	16QAM	1	25	21.80	21.81	21.92	23	1	
10	16QAM	1	49	21.83	21.90	21.93			
10	16QAM	25	0	20.54	20.54	20.85			
10	16QAM	25	12	20.65	20.63	20.67			
10	16QAM	25	25	20.58	20.63	20.69	22	2	
10	16QAM	50	0	20.62	20.62	20.62			
10	64QAM	1	0	20.70	20.67	20.69			
10	64QAM	1	25	20.63	20.67	20.76	22	2	
10	64QAM	1	49	20.72	20.75	20.80			
10	64QAM	25	0	19.57	19.57	19.68			
10	64QAM	25	12	19.65	19.67	19.69			
10	64QAM	25	25	19.63	19.63	19.75	21	3	
10	64QAM	50	0	19.63	19.67	19.70			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.48	22.56	22.33			
5	QPSK	1	12	22.30	22.11	22.37	24	0	
5	QPSK	1	24	22.32	22.20	22.35			
5	QPSK	12	0	21.32	21.33	21.40			
5	QPSK	12	7	21.42	21.31	21.41			
5	QPSK	12	13	21.34	21.29	21.40	23	1	
5	QPSK	25	0	21.39	21.36	21.46			
5	16QAM	1	0	21.84	21.92	21.71			
5	16QAM	1	12	21.82	21.93	21.36	23	1	
5	16QAM	1	24	21.62	21.53	21.05			
5	16QAM	12	0	20.45	20.27	20.45			
5	16QAM	12	7	20.44	20.37	20.48			
5	16QAM	12	13	20.44	20.45	20.44	22	2	
5	16QAM	25	0	20.26	20.40	20.40			
5	64QAM	1	0	20.76	20.69	20.62			
5	64QAM	1	12	20.77	20.57	20.78	22	2	
5	64QAM	1	24	20.79	20.50	20.71			
5	64QAM	12	0	19.52	19.25	19.29			
5	64QAM	12	7	19.32	19.33	19.31	21	3	
5	64QAM	12	13	19.38	19.38	19.49			
5	64QAM	25	0	19.43	19.40	19.50			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.26	22.17	22.31			
3	QPSK	1	8	22.39	22.20	22.26	24	0	
3	QPSK	1	14	22.11	22.26	22.41			
3	QPSK	8	0	21.44	21.27	21.33			
3	QPSK	8	4	21.45	21.24	21.48	23	1	
3	QPSK	8	7	21.30	21.35	21.42			
3	QPSK	15	0	21.43	21.24	21.39			
3	16QAM	1	0	21.55	21.24	21.30			
3	16QAM	1	8	21.42	21.31	21.61	23	1	
3	16QAM	1	14	21.21	21.52	21.83			
3	16QAM	8	0	20.31	20.21	20.48			
3	16QAM	8	4	20.48	20.49	20.50			
3	16QAM	8	7	20.44	20.44	20.46	22	2	
3	16QAM	15	0	20.57	20.26	20.44			
3	64QAM	1	0	20.88	20.70	20.56			
3	64QAM	1	8	20.63	20.84	20.61	22	2	
3	64QAM	1	14	20.59	20.12	20.25			
3	64QAM	8	0	19.47	19.23	19.52			
3	64QAM	8	4	19.37	19.28	19.26			
3	64QAM	8	7	19.33	19.54	19.38	21	3	
3	64QAM	15	0	19.54	19.41	19.34			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.17	22.21	22.16			
1.4	QPSK	1	3	22.30	22.20	22.32			
1.4	QPSK	1	5	22.20	22.12	22.21	24	0	
1.4	QPSK	3	0	22.27	22.21	22.24			
1.4	QPSK	3	1	22.31	22.28	22.34			
1.4	QPSK	3	3	22.20	22.20	22.29			
1.4	QPSK	6	0	21.23	21.23	21.34	23	1	
1.4	16QAM	1	0	21.77	21.53	21.57			
1.4	16QAM	1	3	21.79	21.55	21.78			
1.4	16QAM	1	5	21.58	21.46	21.88	23	1	
1.4	16QAM	3	0	21.28	21.21	21.35			
1.4	16QAM	3	1	21.60	21.43	21.57			
1.4	16QAM	3	3	21.41	21.20	21.61			
1.4	16QAM	6	0	20.41	20.26	20.42	22	2	
1.4	64QAM	1	0	20.54	20.40	20.38			
1.4	64QAM	1	3	20.56	20.56	20.49			
1.4	64QAM	1	5	20.12	20.62	20.58			
1.4	64QAM	3	0	20.39	20.18	20.38	22	2	
1.4	64QAM	3	1	20.54	20.24	20.44			
1.4	64QAM	3	3	20.52	20.50	20.48			
1.4	64QAM	6	0	19.40	19.15	19.38	21	3	

Band 7_Ant 0-DSI2/DSI4									
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	22.80	22.69	22.75			
20	QPSK	1	49	22.81	22.71	22.87	24	0	
20	QPSK	1	99	22.89	22.95	23.34			
20	QPSK	50	0	22.02	21.89	21.93			
20	QPSK	50	24	22.03	21.91	22.00			
20	QPSK	50	50	22.04	21.92	22.07	23	1	
20	QPSK	100	0	22.03	21.90	22.05			
20	16QAM	1	0	22.14	22.05	22.07			
20	16QAM	1	49	22.19	22.05	22.17	23	1	
20	16QAM	1	99	22.14	22.13	22.26			
20	16QAM	50	0	21.05	20.91	20.92			
20	16QAM	50	24	21.05	20.94	20.98			
20	16QAM	50	50	20.94	20.93	21.08	22	2	
20	16QAM	100	0	21.03	20.90	20.97			
20	64QAM	1	0	21.01	20.93	20.88			
20	64QAM	1	49	21.11	20.91	21.12	22	2	
20	64QAM	1	99	20.95	21.05	21.20			
20	64QAM	50	0	20.04	19.91	19.96			
20	64QAM	50	24	20.07	19.95	20.03			
20	64QAM	50	50	19.95	19.97	20.12	21	3	
20	64QAM	100	0	20.05	19.98	19.98			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.86	22.43	22.57			
15	QPSK	1	37	22.59	22.58	22.81	24	0	
15	QPSK	1	74	22.81	22.48	22.92			
15	QPSK	36	0	21.80	21.71	21.88			
15	QPSK	36	20	21.81	21.81	21.93			
15	QPSK	36	39	21.80	21.83	21.99	23	1	
15	QPSK	75	0	21.83	21.72	21.87			
15	16QAM	1	0	22.02	21.76	21.72			
15	16QAM	1	37	22.24	21.81	21.72	23	1	
15	16QAM	1	74	21.94	21.52	21.83			
15	16QAM	36	0	20.84	20.76	20.69			
15	16QAM	36	20	20.76	20.80	20.97			
15	16QAM	36	39	20.70	20.71	20.99	22	2	
15	16QAM	75	0	20.73	20.74	20.83			
15	64QAM	1	0	20.79	20.72	20.86			
15	64QAM	1	37	20.60	20.65	21.06	22	2	
15	64QAM	1	74	21.06	21.05	21.20			
15	64QAM	36	0	19.88	19.75	19.84			
15	64QAM	36	20	19.90	19.85	20.03			
15	64QAM	36	39	19.86	19.84	19.90	21	3	
15	64QAM	75	0	19.85	19.75	19.81			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.73	22.72	23.01			
10	QPSK	1	25	22.86	22.69	23.02	24	0	
10	QPSK	1	49	22.86	22.94	23.00			
10	QPSK	25	0	22.10	21.86	22.00			
10	QPSK	25	12	22.01	21.91	22.06			
10	QPSK	25	25	22.02	21.89	22.11	23	1	



Band 12_Ant 1-DS12/DS14									
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				23060	23095	23130			
Frequency (MHz)				707.5	707.5	711.5			
10	QPSK	1	0	22.86	22.82	22.50	24	0	
10	QPSK	1	25	22.51	22.51	22.41			
10	QPSK	1	49	22.50	22.46	22.35			
10	QPSK	25	0	21.71	21.63	21.63			
10	QPSK	25	12	21.70	21.61	21.60	23	1	
10	QPSK	25	25	21.68	21.62	21.54			
10	QPSK	50	0	21.68	21.60	21.52			
10	16QAM	1	0	21.95	21.93	21.93			
10	16QAM	1	25	21.88	21.89	21.83	23	1	
10	16QAM	1	49	21.91	21.85	21.78			
10	16QAM	25	0	20.61	20.64	20.57			
10	16QAM	25	12	20.74	20.64	20.63			
10	16QAM	25	25	20.68	20.64	20.56	22	2	
10	16QAM	50	0	20.69	20.60	20.50			
10	64QAM	1	0	20.80	20.78	20.76			
10	64QAM	1	25	20.74	20.77	20.65	22	2	
10	64QAM	1	49	20.82	20.74	20.67			
10	64QAM	25	0	19.67	19.65	19.57			
10	64QAM	25	12	19.72	19.55	19.64			
10	64QAM	25	25	19.70	19.66	19.58	21	3	
10	64QAM	50	0	19.70	19.61	19.53			
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	22.39	22.30	22.31	24	0	
5	QPSK	1	12	22.25	22.28	22.24			
5	QPSK	1	24	22.29	22.42	22.32			
5	QPSK	12	0	21.35	21.34	21.33			
5	QPSK	12	7	21.39	21.28	21.39	23	1	
5	QPSK	12	13	21.44	21.43	21.40			
5	QPSK	25	0	21.39	21.37	21.33			
5	16QAM	1	0	21.62	21.69	21.86	23	1	
5	16QAM	1	12	22.05	21.20	21.42			
5	16QAM	1	24	21.84	21.65	21.80			
5	16QAM	12	0	20.37	20.18	20.39			
5	16QAM	12	7	20.40	20.24	20.12	22	2	
5	16QAM	12	13	20.34	20.44	20.35			
5	16QAM	25	0	20.37	20.27	20.28			
5	64QAM	1	0	20.47	20.66	20.40			
5	64QAM	1	12	20.49	20.88	20.65	22	2	
5	64QAM	1	24	20.32	20.63	20.62			
5	64QAM	12	0	19.47	19.38	19.48			
5	64QAM	12	7	19.31	19.36	19.50	21	3	
5	64QAM	12	13	19.42	19.34	19.35			
5	64QAM	25	0	19.32	19.38	19.43			
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	22.44	22.35	22.20	24	0	
3	QPSK	1	8	22.28	22.35	22.26			
3	QPSK	1	14	22.28	22.17	22.34			
3	QPSK	8	0	21.47	21.40	21.32			
3	QPSK	8	4	21.69	21.32	21.38	23	1	
3	QPSK	8	7	21.36	21.42	21.29			
3	QPSK	15	0	21.38	21.26	21.32			
3	16QAM	1	0	21.34	21.57	21.70			
3	16QAM	1	8	21.50	21.91	21.88	23	1	
3	16QAM	1	14	21.30	21.72	21.70			
3	16QAM	8	0	20.45	20.41	20.35			
3	16QAM	8	4	20.58	20.45	20.34	22	2	
3	16QAM	8	7	20.48	20.47	20.31			
3	16QAM	15	0	20.34	20.11	20.15			
3	64QAM	1	0	20.72	20.35	20.53			
3	64QAM	1	8	20.82	20.36	20.19	22	2	
3	64QAM	1	14	20.84	20.53	20.17			
3	64QAM	8	0	19.38	19.41	19.38			
3	64QAM	8	4	19.30	19.45	19.44	21	3	
3	64QAM	8	7	19.34	19.39	19.47			
3	64QAM	15	0	19.47	19.47	19.40			
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	22.28	22.42	22.23	24	0	
1.4	QPSK	1	3	22.38	22.40	22.27			
1.4	QPSK	1	5	22.11	22.25	22.15			
1.4	QPSK	3	0	22.31	22.33	22.12			
1.4	QPSK	3	1	22.32	22.24	22.21			
1.4	QPSK	3	3	22.31	22.29	22.16	23	1	
1.4	QPSK	6	0	21.37	21.32	21.28			
1.4	16QAM	1	0	21.27	21.52	21.30			
1.4	16QAM	1	3	21.27	21.83	21.14			
1.4	16QAM	1	5	21.29	21.89	21.51	23	1	
1.4	16QAM	3	0	21.40	21.34	21.46			
1.4	16QAM	3	1	21.69	21.51	21.19			
1.4	16QAM	3	3	21.40	21.51	21.34			
1.4	16QAM	6	0	20.35	20.35	20.10	22	2	
1.4	64QAM	1	0	21.16	20.52	20.98			
1.4	64QAM	1	3	20.42	20.41	20.63			
1.4	64QAM	1	5	20.47	20.22	20.53	22	2	
1.4	64QAM	3	0	20.57	20.39	20.38			
1.4	64QAM	3	1	20.76	20.47	20.46			
1.4	64QAM	3	3	20.47	20.58	20.35			
1.4	64QAM	6	0	19.23	19.44	19.24	21	3	

Band 26_Ant 1-DS12/DS14									
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)				811.5	831.5	841.5			
15	QPSK	1	0	22.35	22.89	22.38	24	0	
15	QPSK	1	37	22.36	22.28	22.34			
15	QPSK	1	74	22.25	22.34	22.32			
15	QPSK	36	0	21.46	21.53	21.52			
15	QPSK	36	20	21.42	21.46	21.48	23	1	
15	QPSK	36	39	21.40	21.44	21.44			
15	QPSK	75	0	21.50	21.52	21.51			
15	16QAM	1	0	21.73	21.66	21.73			
15	16QAM	1	37	21.64	21.61	21.69	23	1	
15	16QAM	1	74	21.95	21.68	21.68			
15	16QAM	36	0	20.48	20.42	20.49			
15	16QAM	36	20	20.51	20.48	20.56			
15	16QAM	36	39	20.50	20.47	20.54	22	2	
15	16QAM	75	0	20.54	20.47	20.53			
15	64QAM	1	0	20.55	20.48	20.56			
15	64QAM	1	37	20.58	20.53	20.62	22	2	
15	64QAM	1	74	20.53	20.52	20.57			
15	64QAM	36	0	19.51	19.44	19.54			
15	64QAM	36	20	19.53	19.49	19.60	21	3	
15	64QAM	36	39	19.54	19.49	19.59			
15	64QAM	75	0	19.54	19.46	19.52			
Channel				26740	26865	26990			
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	22.21	22.16	22.11	24	0	
10	QPSK	1	25	22.10	22.26	22.21			
10	QPSK	1	49	22.16	22.24	22.32			
10	QPSK	25	0	21.34	21.32	21.36			
10	QPSK	25	12	21.41	21.38	21.36	23	1	
10	QPSK	25	25	21.37	21.37	21.39			
10	QPSK	50	0	21.42	21.41	21.34			
10	16QAM	1	0	21.96	21.24	21.76	23	1	
10	16QAM	1	25	21.55	21.46	21.69			
10	16QAM	1	49	21.53	21.53	21.55			
10	16QAM	25	0	20.42	20.18	20.46			
10	16QAM	25	12	20.40	20.36	20.48	22	2	
10	16QAM	25	25	20.34	20.26	20.50			
10	16QAM	50	0	20.39	20.38	20.30			
10	64QAM	1	0	20.65	20.42	20.22			
10	64QAM	1	25	20.21	20.45	20.59	22	2	
10	64QAM	1	49	20.49	20.31	20.68			
10	64QAM	25	0	19.33	19.30	19.43			
10	64QAM	25	12	19.46	19.45	19.38	21	3	
10	64QAM	25	25	19.34	19.41	19.39			
10	64QAM	50	0	19.37	19.39	19.41			



Band 66_Ant 0-DS1/DS14										
BW [MHz]	Modulation	Channel	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	0	22.22	22.42	22.21	24	0	
20	QPSK	1	49	0	22.10	22.26	22.02			
20	QPSK	1	99	0	22.00	22.02	22.02			
20	QPSK	50	0	0	21.73	21.75	21.59			
20	QPSK	50	24	0	21.72	21.66	21.54			
20	QPSK	50	50	0	21.67	21.63	21.55			
20	QPSK	100	0	0	21.72	21.74	21.54			
20	16QAM	1	0	0	22.00	22.09	21.92			
20	16QAM	1	49	0	21.99	21.95	21.86			
20	16QAM	1	99	0	21.95	21.90	21.89			
20	16QAM	50	0	0	20.88	20.72	20.62			
20	16QAM	50	24	0	20.77	20.65	20.56			
20	16QAM	50	50	0	20.71	20.65	20.56			
20	16QAM	100	0	0	20.72	20.64	20.55			
20	64QAM	1	0	0	20.80	20.90	20.80			
20	64QAM	1	49	0	20.88	20.91	20.74			
20	64QAM	1	99	0	20.71	20.67	20.60			
20	64QAM	50	0	0	19.71	19.73	19.61			
20	64QAM	50	24	0	19.77	19.71	19.59			
20	64QAM	50	50	0	19.73	19.66	19.59			
20	64QAM	100	0	0	19.76	19.66	19.58			
Channel					132047	132322	132597			
Frequency (MHz)					1717.5	1745	1772.5			
15	QPSK	1	0	0	22.07	22.18	22.20	24	0	
15	QPSK	1	37	0	22.02	22.14	22.28			
15	QPSK	1	74	0	22.08	22.10	22.17			
15	QPSK	36	0	0	21.73	21.75	21.58			
15	QPSK	36	20	0	21.75	21.72	21.65			
15	QPSK	36	39	0	21.70	21.72	21.69			
15	QPSK	75	0	0	21.72	21.59	21.69			
15	16QAM	1	0	0	21.78	21.93	21.95			
15	16QAM	1	37	0	21.91	21.81	21.77			
15	16QAM	1	74	0	21.86	21.82	21.85			
15	16QAM	36	0	0	20.74	20.74	20.69			
15	16QAM	36	20	0	20.84	20.82	20.75			
15	16QAM	36	39	0	20.82	20.77	20.67			
15	16QAM	75	0	0	20.80	20.75	20.68			
15	64QAM	1	0	0	20.97	20.92	21.04			
15	64QAM	1	37	0	20.99	20.63	20.96			
15	64QAM	1	74	0	20.95	20.55	20.66			
15	64QAM	36	0	0	19.71	19.84	19.87			
15	64QAM	36	20	0	19.87	19.73	19.65			
15	64QAM	36	39	0	19.81	19.72	19.69			
15	64QAM	75	0	0	19.78	19.68	19.73			
Channel					132022	132322	132622			
Frequency (MHz)					1715	1745	1775			
10	QPSK	1	0	0	22.22	22.20	22.23	24	0	
10	QPSK	1	25	0	22.21	22.21	22.09			
10	QPSK	1	49	0	22.03	22.07	22.01			
10	QPSK	25	0	0	21.86	21.78	21.75			
10	QPSK	25	12	0	21.84	21.75	21.69			
10	QPSK	25	25	0	21.84	21.72	21.62			
10	QPSK	50	0	0	21.82	21.81	21.58			
10	16QAM	1	0	0	22.21	21.79	21.84			
10	16QAM	1	25	0	21.70	21.69	21.62			
10	16QAM	1	49	0	21.75	21.64	21.59			
10	16QAM	25	0	0	20.85	20.80	20.56			
10	16QAM	25	12	0	20.91	20.67	20.76			
10	16QAM	25	25	0	20.79	20.75	20.66			
10	16QAM	50	0	0	20.81	20.73	20.72			
10	64QAM	1	0	0	21.12	21.00	20.84			
10	64QAM	1	25	0	21.04	20.47	20.92			
10	64QAM	1	49	0	20.93	20.49	20.87			
10	64QAM	25	0	0	19.87	19.86	19.80			
10	64QAM	25	12	0	19.88	19.84	19.76			
10	64QAM	25	25	0	19.80	19.81	19.68			
10	64QAM	50	0	0	19.89	19.83	19.71			
Channel					131997	132322	132647			
Frequency (MHz)					1712.5	1745	1777.5			
5	QPSK	1	0	0	22.19	22.26	22.22	24	0	
5	QPSK	1	12	0	22.10	22.13	22.12			
5	QPSK	1	24	0	22.25	22.21	22.07			
5	QPSK	12	0	0	21.80	21.80	21.64			
5	QPSK	12	7	0	21.77	21.74	21.74			
5	QPSK	12	13	0	21.81	21.79	21.87			
5	QPSK	25	0	0	21.75	21.71	21.70			
5	16QAM	1	0	0	22.00	22.11	22.05			
5	16QAM	1	12	0	22.07	22.26	21.96			
5	16QAM	1	24	0	21.80	21.75	21.98			
5	16QAM	12	0	0	20.90	20.88	20.68			
5	16QAM	12	7	0	20.86	21.35	20.79			
5	16QAM	12	13	0	20.80	20.85	20.75			
5	16QAM	25	0	0	20.74	20.83	20.71			
5	64QAM	1	0	0	20.87	20.89	21.14			
5	64QAM	1	12	0	20.94	21.07	20.84			
5	64QAM	1	24	0	20.92	21.06	20.88			
5	64QAM	12	0	0	19.84	19.76	19.77			
5	64QAM	12	7	0	19.83	19.70	19.74			
5	64QAM	12	13	0	19.74	19.69	19.69			
5	64QAM	25	0	0	19.83	19.79	19.88			
Channel					131987	132322	132657			
Frequency (MHz)					1711.5	1745	1778.5			
3	QPSK	1	0	0	22.18	22.22	22.15	24	0	
3	QPSK	1	8	0	22.20	22.23	22.06			
3	QPSK	1	14	0	22.04	22.13	22.03			
3	QPSK	8	0	0	21.99	21.72	21.82			
3	QPSK	8	4	0	21.74	21.64	21.72			
3	QPSK	8	7	0	21.86	21.79	21.61			
3	QPSK	15	0	0	21.83	21.61	21.55			
3	16QAM	1	0	0	22.10	22.20	21.77			
3	16QAM	1	8	0	22.24	22.31	22.14			
3	16QAM	1	14	0	22.29	22.27	22.09			
3	16QAM	8	0	0	20.79	20.67	20.57			
3	16QAM	8	4	0	20.86	20.74	20.75			
3	16QAM	8	7	0	20.75	20.86	20.71			
3	16QAM	15	0	0	20.76	21.01	20.79			
3	64QAM	1	0	0	21.24	20.31	20.63			
3	64QAM	1	8	0	21.04	20.84	21.05			
3	64QAM	1	14	0	20.61	21.01	21.13			
3	64QAM	8	0	0	19.83	19.52	19.69			
3	64QAM	8	4	0	20.06	19.81	19.60			
3	64QAM	8	7	0	19.83	19.91	19.74			
3	64QAM	15	0	0	19.80	19.77	19.78			
Channel					131979	132322	132665			
Frequency (MHz)					1710.7	1745	1779.3			
1.4	QPSK	1	0	0	22.01	22.05	22.01	24	0	
1.4	QPSK	1	3	0	22.03	22.11	22.07			
1.4	QPSK	1	6	0	22.03	22.04	22.03			
1.4	QPSK	3	0	0	22.14	22.15	22.03			
1.4	QPSK	3	1	0	22.05	22.15	22.14			
1.4	QPSK	3	3	0	22.12	22.18	22.07			
1.4	QPSK	6	0	0	21.62	21.67	21.57			
1.4	16QAM	1	0	0	21.86	21.93	21.90			
1.4	16QAM	1	3	0	21.85	22.00	21.85			
1.4	16QAM	1	5	0	21.79	21.90	21.79			
1.4	16QAM	3	0	0	21.67	21.78	21.54			
1.4	16QAM	3	1	0	21.81	21.49	21.70			
1.4	16QAM	3	3	0	21.67	21.83	21.92			
1.4	16QAM	6	0	0	20.72	20.78	20.76			
1.4	64QAM	1	0	0	20.75	20.81	20.75			
1.4	64QAM	1	3	0	20.76	20.81	20.75			
1.4	64QAM	1	5	0	20.83	20.75	20.68			
1.4	64QAM	3	0	0	20.85	20.94	20.39			
1.4	64QAM	3	1	0	20.85	20.66	20.73			
1.4	64QAM	3	3	0	20.90	20.44	20.41			
1.4	64QAM	6	0	0	19.56	19.72	19.58			

Band 66_Ant 1-DS14										
BW [MHz]	Modulation	Channel	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	0	22.33	22.61	22.57	24	0	
20	QPSK	1	49	0	22.12	22.18	22.08			
20	QPSK	1	99	0	22.26	22.48	22.30			
20	QPSK	50	0	0	21.68	22.06	22.00			
20	QPSK	50	24	0	21.63	21.87	21.77			
20	QPSK	50	50	0	21.65	21.96	21.72			
20	QPSK	100	0	0	21.66	21.89	21.77			
20	16QAM	1	0	0	21.74	22.01	22.19			
20	16QAM	1	49	0	21.55	21.79	21.67			
20	1									

**Band 38_Ant 0-DS1/2/DS4**

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	22.74	22.81	22.65	24	0
20	QPSK	1	49	22.96	22.71	22.75		
20	QPSK	1	99	22.80	22.70	22.74	23	1
20	QPSK	50	0	21.82	21.80	21.72		
20	QPSK	50	24	21.87	21.85	21.76	23	1
20	QPSK	50	50	21.86	21.74	21.76		
20	QPSK	100	0	21.88	21.72	21.83	23	1
20	16QAM	1	0	21.91	21.87	21.70		
20	16QAM	1	49	21.91	21.85	21.85	22	2
20	16QAM	1	99	21.95	21.92	21.86		
20	16QAM	50	0	20.94	20.94	20.76	22	2
20	16QAM	50	24	20.78	20.76	20.76		
20	16QAM	50	50	20.85	20.78	20.80	22	2
20	16QAM	100	0	20.76	20.77	20.77		
20	64QAM	1	0	20.63	20.54	20.48	22	2
20	64QAM	1	49	20.63	20.59	20.63		
20	64QAM	1	99	20.47	20.63	20.52	21	3
20	64QAM	50	0	19.83	19.71	19.69		
20	64QAM	50	24	19.78	19.86	19.69	21	3
20	64QAM	50	50	19.79	19.81	19.81		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.65	22.60	22.72	24	0
15	QPSK	1	37	22.76	22.69	22.67		
15	QPSK	1	74	22.76	22.65	22.62	23	1
15	QPSK	36	0	21.87	21.73	21.89		
15	QPSK	36	39	21.78	21.81	21.82	23	1
15	QPSK	36	75	21.89	21.79	21.76		
15	16QAM	1	0	21.89	21.80	21.87	23	1
15	16QAM	1	37	21.90	21.79	21.82		
15	16QAM	1	74	21.90	21.90	21.86	22	2
15	16QAM	36	0	20.85	20.69	20.68		
15	16QAM	36	20	20.96	20.72	20.79	22	2
15	16QAM	36	39	20.76	20.69	20.79		
15	16QAM	75	0	20.86	20.83	20.71	22	2
15	64QAM	1	0	20.63	20.57	20.42		
15	64QAM	1	37	20.72	20.45	20.78	21	3
15	64QAM	1	74	20.96	20.67	20.52		
15	64QAM	36	0	19.79	19.77	19.74	21	3
15	64QAM	36	20	19.84	19.72	19.86		
15	64QAM	36	39	19.76	19.77	19.76	21	3
15	64QAM	75	0	19.88	19.76	19.73		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.85	22.82	22.86	24	0
10	QPSK	1	25	22.93	22.78	22.78		
10	QPSK	1	49	22.86	22.82	22.82	23	1
10	QPSK	25	0	21.95	21.84	21.83		
10	QPSK	25	12	21.91	21.84	21.85	23	1
10	QPSK	25	25	21.92	21.92	21.96		
10	QPSK	50	0	21.97	21.91	21.86	23	1
10	16QAM	1	0	21.98	21.82	21.94		
10	16QAM	1	25	22.01	21.86	21.91	23	1
10	16QAM	1	49	22.03	21.84	22.03		
10	16QAM	25	0	21.07	20.99	20.71	22	2
10	16QAM	25	12	21.02	20.89	20.93		
10	16QAM	25	25	20.90	20.88	20.90	22	2
10	16QAM	50	0	20.86	20.92	20.74		
10	64QAM	1	0	20.74	20.69	20.60	22	2
10	64QAM	1	25	20.79	20.64	20.65		
10	64QAM	1	49	20.72	20.72	20.69	21	3
10	64QAM	25	0	20.07	19.93	19.99		
10	64QAM	25	12	20.00	19.99	19.78	21	3
10	64QAM	25	25	19.95	19.84	19.76		
10	64QAM	50	0	19.93	19.87	19.86	21	3
10	64QAM	100	0	19.79	19.81	19.81		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.79	22.85	22.70	24	0
5	QPSK	1	12	22.92	22.83	22.78		
5	QPSK	1	24	22.91	22.74	22.74	23	1
5	QPSK	12	0	22.02	21.83	21.82		
5	QPSK	12	6	22.01	21.86	21.85	23	1
5	QPSK	12	13	21.95	21.91	21.87		
5	QPSK	25	0	22.01	21.92	21.90	23	1
5	16QAM	1	0	22.09	21.90	21.94		
5	16QAM	1	12	22.13	21.90	21.96	22	2
5	16QAM	1	24	22.14	21.96	21.91		
5	16QAM	12	0	21.03	20.82	20.92	22	2
5	16QAM	12	7	20.88	20.78	20.84		
5	16QAM	12	13	20.98	20.80	20.85	22	2
5	16QAM	25	0	20.99	20.93	20.86		
5	64QAM	1	0	20.92	20.69	20.71	22	2
5	64QAM	1	12	20.63	20.57	20.50		
5	64QAM	1	24	20.95	20.70	20.68	21	3
5	64QAM	12	0	19.92	19.89	19.78		
5	64QAM	12	7	20.01	19.93	19.91	21	3
5	64QAM	12	13	20.02	19.95	19.83		
5	64QAM	25	0	20.02	19.97	19.81	21	3
5	64QAM	25	0	20.02	19.97	19.81		

Band 41_Ant 0-DS1/2/DS4

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	22.80	22.82	22.74	24	0
20	QPSK	1	49	22.65	22.80	22.64		
20	QPSK	1	99	22.86	22.75	22.86	23	1
20	QPSK	50	0	21.82	21.86	21.89		
20	QPSK	50	24	21.79	21.81	21.89	23	1
20	QPSK	50	50	21.85	21.98	21.86		
20	QPSK	100	0	21.80	21.94	21.99	23	1
20	16QAM	1	0	21.87	21.74	21.72		
20	16QAM	1	49	21.70	21.78	21.74	22	2
20	16QAM	1	99	21.76	21.75	21.86		
20	16QAM	50	0	20.87	20.86	20.71	22	2
20	16QAM	50	24	20.82	20.80	20.79		
20	16QAM	50	50	20.86	20.78	20.84	22	2
20	16QAM	100	0	20.80	20.86	20.83		
20	64QAM	1	0	20.41	20.79	20.42	22	2
20	64QAM	1	49	20.34	20.75	20.66		
20	64QAM	1	99	20.31	20.67	20.60	21	3
20	64QAM	50	0	19.77	19.83	19.95		
20	64QAM	50	24	19.83	19.85	19.89	21	3
20	64QAM	50	50	19.77	19.83	19.84		
20	64QAM	100	0	19.75	19.83	19.79	21	3
20	64QAM	100	0	19.75	19.83	19.79		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.65	22.63	22.73	24	0
15	QPSK	1	37	22.55	22.56	22.54		
15	QPSK	1	74	22.58	22.59	22.59	23	1
15	QPSK	36	0	21.71	21.75	21.81		
15	QPSK	36	39	21.78	21.81	21.81	23	1
15	QPSK	36	75	21.79	21.80	21.85		
15	16QAM	1	0	21.83	21.78	21.89	23	1
15	16QAM	1	37	21.88	21.78	21.86		
15	16QAM	1	74	21.71	21.85	21.89	22	2
15	16QAM	36	0	20.88	20.71	20.85		
15	16QAM	36	20	20.76	20.75	20.85	22	2
15	16QAM	36	39	20.68	20.75	20.79		
15	16QAM	75	0	20.82	20.81	20.83	22	2
15	64QAM	1	0	20.45	20.44	20.50		
15	64QAM	1	37	20.32	20.41	20.49	22	2
15	64QAM	1	74	20.45	20.56	20.65		
15	64QAM	36	0	19.75	19.77	19.85	21	3
15	64QAM	36	20	19.75	19.81	19.87		
15	64QAM	36	39	19.73	19.86	19.80	21	3
15	64QAM	75	0	19.61	19.89	19.84		
15	64QAM	75	0	19.61	19.89	19.84	21	3
15	64QAM	100	0	19.61	19.89	19.84		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.88	22.82	22.73	24	0
10	QPSK	1	25	22.87	22.81	22.79		
10	QPSK	1	49	22.85	22.82	22.82	23	1
10	QPSK	25	0	21.79	21.90	21.98		
10	QPSK	25	12	21.93	21.89	21.88	23	1
10	QPSK	25	25	21.88	21.79	21.96		
10	QPSK	50	0	21.94	21.90	21.94	23	1
10	16QAM	1	0	21.93	21.80	21.85		
10	16QAM	1	25	21.86	22.04	21.93	23	1
10	16QAM	1	49	21.90	21.94	21.92		
10	16QAM	25	0	20.85	20.87	20.91	22	2
10	16QAM	25	12	21.01	21.02	20.91		
10	16QAM	25	25	20.91	20.99			



n5_Ant 1-DSI2/DSI4								
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				166500	167300	167800		
Frequency (MHz)				831	836.5	839		
20	PI/2 BPSK	1	1	23.36	23.19	23.23	24.0	0.0
20	PI/2 BPSK	1	53	23.16	23.11	23.11		
20	PI/2 BPSK	1	104	23.00	23.04	22.97		
20	PI/2 BPSK	50	0	22.67	22.76	22.72	23.5	0.5
20	PI/2 BPSK	50	28	23.24	23.20	23.15	24.0	0.0
20	PI/2 BPSK	50	56	22.65	22.64	22.59	23.5	0.5
20	PI/2 BPSK	100	0	22.71	22.68	22.68		
20	QPSK	1	1	23.27	23.35	23.30		
20	QPSK	1	53	23.18	23.27	23.18	24.0	0.0
20	QPSK	1	104	23.12	23.08	23.04		
20	QPSK	50	0	22.18	22.25	22.20	23.0	1.0
20	QPSK	50	28	23.23	23.14	23.16	24.0	0.0
20	QPSK	50	56	22.11	22.06	22.07		
20	QPSK	100	0	22.26	22.19	22.18	23.0	1.0
20	16QAM	1	1	21.98	22.04	22.08	23.0	1.0
20	64QAM	1	1	20.67	21.01	20.96	21.5	2.5
20	256QAM	1	1	18.63	18.73	18.62	19.5	4.5
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	PI/2 BPSK	1	1	23.23	23.17	23.19	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	PI/2 BPSK	1	1	23.31	23.29	23.30	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.5	836.5	846.5		
5	PI/2 BPSK	1	1	23.28	23.27	23.26	24.0	0.0

n7_Ant 0-DSI2/DSI4								
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				504000	507600	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	23.25	23.15	23.13	24.0	0.0
40	PI/2 BPSK	1	108	23.29	23.18	23.23		
40	PI/2 BPSK	1	214	23.26	23.13	23.21		
40	PI/2 BPSK	108	0	22.81	22.70	22.61	23.5	0.5
40	PI/2 BPSK	108	54	23.27	23.12	23.20	24.0	0.0
40	PI/2 BPSK	108	108	22.72	22.70	22.68	23.5	0.5
40	PI/2 BPSK	216	0	22.94	22.83	22.90		
40	QPSK	1	1	23.25	23.18	23.08		
40	QPSK	1	108	23.27	23.15	23.22	24.0	0.0
40	QPSK	1	214	23.18	23.14	23.21		
40	QPSK	108	0	22.29	22.18	22.14	23.0	1.0
40	QPSK	108	54	23.28	23.21	23.22	24.0	0.0
40	QPSK	108	108	22.23	22.14	22.24	23.0	1.0
40	QPSK	216	0	22.42	22.38	22.37		
40	16QAM	1	1	22.18	22.18	21.95	23.0	1.0
40	64QAM	1	1	20.92	20.81	20.90	21.5	2.5
40	256QAM	1	1	19.30	19.30	19.13	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	23.02	23.11	23.08	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	23.05	23.10	23.11	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	22.98	23.01	22.94	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	23.20	23.12	23.12	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	23.23	23.10	23.28	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	23.27	23.14	23.21	24.0	0.0



n66_Ant 0-DSI2/DSI4								
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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	22.78	22.92	22.79		
40	PI/2 BPSK	1	108	22.10	22.13	22.11	24.0	0.0
40	PI/2 BPSK	1	214	22.73	22.71	22.71		
40	PI/2 BPSK	108	0	22.23	22.35	22.26	23.5	0.5
40	PI/2 BPSK	108	54	22.24	22.36	22.27	24.0	0.0
40	PI/2 BPSK	108	108	22.23	22.20	22.23		
40	PI/2 BPSK	216	0	22.28	22.36	22.34	23.5	0.5
40	QPSK	1	1	22.78	22.78	22.80		
40	QPSK	1	108	22.11	22.14	22.11	24.0	0.0
40	QPSK	1	214	22.74	22.65	22.73		
40	QPSK	108	0	22.45	22.51	22.43	23.0	1.0
40	QPSK	108	54	22.17	22.21	22.15	24.0	0.0
40	QPSK	108	108	22.42	22.34	22.41		
40	QPSK	216	0	22.34	22.41	22.35	23.0	1.0
40	16QAM	1	1	22.68	22.70	22.67	23.0	1.0
40	64QAM	1	1	21.21	21.21	21.23	21.5	2.5
40	256QAM	1	1	19.30	19.33	19.33	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	22.66	22.82	22.54	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	22.58	22.81	22.49	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI/2 BPSK	1	1	22.47	22.58	22.34	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	22.76	22.73	22.56	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	22.33	22.36	22.18	24.0	0.0

n66_Ant 1-DSI4								
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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	22.81	22.88	22.76		
40	PI/2 BPSK	1	108	22.19	22.18	22.03	24.0	0.0
40	PI/2 BPSK	1	214	22.11	22.72	22.61		
40	PI/2 BPSK	108	0	21.93	22.02	21.89	23.5	0.5
40	PI/2 BPSK	108	54	22.15	22.27	22.11	24.0	0.0
40	PI/2 BPSK	108	108	22.12	22.08	22.04		
40	PI/2 BPSK	216	0	22.08	22.14	21.99	23.5	0.5
40	QPSK	1	1	22.52	22.50	22.45		
40	QPSK	1	108	21.80	21.88	21.76	24.0	0.0
40	QPSK	1	214	22.47	22.47	22.31		
40	QPSK	108	0	22.13	22.26	22.10	23.0	1.0
40	QPSK	108	54	21.95	22.02	21.89	24.0	0.0
40	QPSK	108	108	22.18	22.14	22.03	23.0	1.0
40	QPSK	216	0	22.06	22.15	22.00	23.0	1.0
40	16QAM	1	1	22.70	22.69	22.61	23.0	1.0
40	64QAM	1	1	21.09	21.06	21.02	21.5	2.5
40	256QAM	1	1	19.05	19.06	19.08	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	22.44	22.54	22.57	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	22.38	22.54	22.68	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI/2 BPSK	1	1	22.27	22.37	22.25	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	22.61	22.54	22.50	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	22.20	22.23	22.05	24.0	0.0



n41_Ant 0-DS12/DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.38	22.82	22.94			
100	PI/2 BPSK	1	137	22.95	22.73	22.78	24.0	0.0	
100	PI/2 BPSK	1	271	22.82	22.62	22.68			
100	PI/2 BPSK	135	0	23.07	22.84	22.85	23.5	0.5	
100	PI/2 BPSK	135	69	23.08	22.86	22.86	24.0	0.0	
100	PI/2 BPSK	135	138	22.89	22.79	22.72	23.5	0.5	
100	PI/2 BPSK	270	0	23.01	22.70	22.75			
100	QPSK	1	1	23.06	22.92	22.97			
100	QPSK	1	137	23.02	22.81	22.87	24.0	0.0	
100	QPSK	1	271	22.88	22.78	22.71			
100	QPSK	135	0	23.00	22.92	22.58			
100	QPSK	135	69	23.24	22.86	22.83	24.0	0.0	
100	QPSK	135	138	23.02	22.74	21.98			
100	QPSK	270	0	23.05	22.88	22.30	23.0	1.0	
100	16QAM	1	1	21.72	21.66	21.69	23.0	1.0	
100	64QAM	1	1	20.73	20.53	20.54	21.5	2.5	
100	256QAM	1	1	18.78	18.66	18.63	19.5	4.5	
Channel				509200	518598	528098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	23.14	23.01	22.81	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	23.02	22.99	22.81	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2592.99	2639.98			
60	PI/2 BPSK	1	1	23.25	23.25	23.19	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	23.05	22.89	22.72	24.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	22.98	22.93	22.83	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PI/2 BPSK	1	1	23.23	22.88	22.89	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	22.91	22.89	22.82	24.0	0.0	

n78_Ant 3(3450-3550)-DS14									
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						633334			
Frequency (MHz)						3508.01			
100	PI/2 BPSK	1	1			23.24			
100	PI/2 BPSK	1	137			23.39	24.0	0.0	
100	PI/2 BPSK	1	271			23.11			
100	PI/2 BPSK	135	0			23.21	24.0	0.0	
100	PI/2 BPSK	135	69			23.26	24.0	0.0	
100	PI/2 BPSK	135	138			23.12	24.0	0.0	
100	PI/2 BPSK	270	0			23.25			
100	QPSK	1	1			23.36			
100	QPSK	1	137			23.15	24.0	0.0	
100	QPSK	1	271			23.03			
100	QPSK	135	0			23.28			
100	QPSK	135	69			23.23	24.0	0.0	
100	QPSK	135	138			23.12			
100	QPSK	270	0			22.82	23.0	1.0	
100	16QAM	1	1			22.87	23.0	1.0	
100	64QAM	1	1			21.34	21.5	2.5	
100	256QAM	1	1			20.01	20.5	3.5	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	PI/2 BPSK	1	1	23.16	23.18	23.20	24.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI/2 BPSK	1	1	23.14	23.04	23.10	24.0	0.0	
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3514.99			
70	PI/2 BPSK	1	1	23.25	23.21	23.10	24.0	0.0	
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	PI/2 BPSK	1	1	23.22	23.02	23.16	24.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI/2 BPSK	1	1	23.26	23.02	23.22	24.0	0.0	
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.98			
40	PI/2 BPSK	1	1	23.19	23.04	23.16	24.0	0.0	
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3534.99			
30	PI/2 BPSK	1	1	23.22	23.03	23.22	24.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI/2 BPSK	1	1	23.23	23.03	23.27	24.0	0.0	



n41_Ant 0 HPUE-DSI2/DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	24.52	25.38	25.08			
100	PI/2 BPSK	1	137	25.56	25.40	25.14	27.0	0.0	
100	PI/2 BPSK	1	271	25.32	24.87	25.13			
100	PI/2 BPSK	135	0	25.37	25.33	25.21	26.5	0.5	
100	PI/2 BPSK	135	69	25.38	25.37	25.27	27.0	0.0	
100	PI/2 BPSK	135	138	25.28	25.28	24.85	26.5	0.5	
100	PI/2 BPSK	270	0	25.35	25.33	25.12			
100	QPSK	1	1	24.64	25.36	25.22			
100	QPSK	1	137	25.34	25.22	24.58	27.0	0.0	
100	QPSK	1	271	25.31	24.44	24.87			
100	QPSK	135	0	24.42	25.08	24.33			
100	QPSK	135	69	25.36	25.11	24.58	27.0	0.0	
100	QPSK	135	138	24.94	24.02	23.55			
100	QPSK	270	0	24.83	24.42	23.87	26.0	1.0	
100	16QAM	1	1	23.25	24.78	24.02	26.0	1.0	
100	64QAM	1	1	22.08	23.58	22.87	24.5	2.5	
100	256QAM	1	1	20.83	21.85	21.30	22.5	4.5	
Channel				509200	518598	528098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	24.41	25.46	24.55	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	24.24	25.42	25.11	27.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536	2592.99	2659.98			
60	PI/2 BPSK	1	1	24.85	25.48	24.57	27.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	24.32	25.42	24.76	27.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	24.47	25.47	24.33	27.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PI/2 BPSK	1	1	24.37	25.42	24.50	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	24.29	25.43	24.83	27.0	0.0	

n78_Ant 3 HPUE(3450-3550)-DSI4									
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						633334			
Frequency (MHz)						3508.01			
100	PI/2 BPSK	1	1			26.17			
100	PI/2 BPSK	1	137			26.21	27.0	0.0	
100	PI/2 BPSK	1	271			26.16			
100	PI/2 BPSK	135	0			24.80	26.0	1.0	
100	PI/2 BPSK	135	69			26.02	27.0	0.0	
100	PI/2 BPSK	135	138			24.67	26.0	1.0	
100	PI/2 BPSK	270	0			24.91			
100	QPSK	1	1			26.12			
100	QPSK	1	137			26.10	27.0	0.0	
100	QPSK	1	271			26.15			
100	QPSK	135	0			24.29			
100	QPSK	135	69			26.15	27.0	0.0	
100	QPSK	135	138			24.34			
100	QPSK	270	0			24.27	26.0	1.0	
100	16QAM	1	1			24.18	26.0	1.0	
100	64QAM	1	1			22.91	24.5	2.5	
100	256QAM	1	1			20.22	22.5	4.5	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	PI/2 BPSK	1	1	26.19	26.11	26.17	27.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI/2 BPSK	1	1	26.14	26.21	26.14	27.0	0.0	
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3514.98			
70	PI/2 BPSK	1	1	26.19	26.12	26.16	27.0	0.0	
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	PI/2 BPSK	1	1	26.17	26.19	26.17	27.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI/2 BPSK	1	1	26.19	26.21	26.13	27.0	0.0	
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.98			
40	PI/2 BPSK	1	1	26.18	26.14	26.01	27.0	0.0	
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3534.99			
30	PI/2 BPSK	1	1	26.20	26.14	26.02	27.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI/2 BPSK	1	1	26.14	26.02	26.12	27.0	0.0	



Reduced Power Mode for WWAN

DS12 (Head Standalone)

Band		WCDMA V.4am1			Tune-up Limit (dBm)
		4132	4182	4233	
	TX Channel	4357	4407	4458	
	Rx Channel	4357	4407	4458	
	Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.33	22.36	22.48	23.50
3GPP Rel 99	RMC 12.2Kbps	22.34	22.37	22.52	23.50
3GPP Rel 6	HSDPA Subtest-1	21.22	21.18	21.19	22.50
3GPP Rel 6	HSDPA Subtest-2	21.05	21.16	21.05	22.50
3GPP Rel 6	HSDPA Subtest-3	20.60	20.73	20.72	22.00
3GPP Rel 6	HSDPA Subtest-4	20.66	20.63	20.68	22.00
3GPP Rel 6	DC-HSDPA Subtest-1	21.12	21.04	21.00	22.50
3GPP Rel 6	DC-HSDPA Subtest-2	20.94	21.02	20.89	22.50
3GPP Rel 6	DC-HSDPA Subtest-3	20.41	20.56	20.44	22.00
3GPP Rel 6	DC-HSDPA Subtest-4	20.59	20.58	20.62	22.00
3GPP Rel 6	HSUPA Subtest-1	21.28	21.28	21.26	22.50
3GPP Rel 6	HSUPA Subtest-2	19.13	19.29	19.24	20.50
3GPP Rel 6	HSUPA Subtest-3	20.27	20.15	20.28	21.50
3GPP Rel 6	HSUPA Subtest-4	19.09	19.19	19.10	20.50
3GPP Rel 6	HSUPA Subtest-5	21.27	21.18	21.22	22.50



Band 7_Ant 1										
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	16.70	16.66	16.53	18.5	0		
20	QPSK	1	49	16.79	16.65	16.54				
20	QPSK	1	99	16.81	16.68	16.64				
20	QPSK	50	0	16.73	16.71	16.58				
20	QPSK	50	24	16.77	16.69	16.53				
20	QPSK	50	50	16.69	16.70	16.57	18.5	0		
20	QPSK	100	0	16.77	16.69	16.53				
20	16QAM	1	0	16.71	16.72	16.70				
20	16QAM	1	49	16.72	16.71	16.68	18.5	0		
20	16QAM	1	99	16.76	16.71	16.58				
20	16QAM	50	0	16.60	16.51	16.35				
20	16QAM	50	24	16.60	16.54	16.38				
20	16QAM	50	50	16.52	16.52	16.42	18.5	0		
20	16QAM	100	0	16.58	16.52	16.38				
20	64QAM	1	0	16.63	16.59	16.50				
20	64QAM	1	49	16.57	16.52	16.50	18.5	0		
20	64QAM	1	99	16.66	16.48	16.52				
20	64QAM	50	0	16.79	16.66	16.51				
20	64QAM	50	24	16.71	16.73	16.53				
20	64QAM	50	50	16.69	16.72	16.56	18.5	0		
20	64QAM	100	0	16.72	16.73	16.53				
Channel				20825	21100	21375				
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	16.50	16.49	16.52	18.5	0		
15	QPSK	1	37	16.73	16.60	16.45				
15	QPSK	1	74	16.69	16.54	16.50				
15	QPSK	36	0	16.64	16.55	16.56				
15	QPSK	36	20	16.59	16.66	16.35	18.5	0		
15	QPSK	36	39	16.54	16.50	16.45				
15	QPSK	75	0	16.61	16.66	16.38				
15	16QAM	1	0	16.60	16.64	16.59	18.5	0		
15	16QAM	1	37	16.67	16.54	16.59				
15	16QAM	1	74	16.56	16.60	16.50				
15	16QAM	36	0	16.54	16.39	16.30				
15	16QAM	36	20	16.59	16.51	16.21	18.5	0		
15	16QAM	36	39	16.44	16.39	16.27				
15	16QAM	75	0	16.49	16.42	16.34				
15	64QAM	1	0	16.56	16.42	16.49				
15	64QAM	1	37	16.56	16.46	16.45	18.5	0		
15	64QAM	1	74	16.56	16.41	16.39				
15	64QAM	36	0	16.72	16.61	16.48				
15	64QAM	36	20	16.52	16.63	16.33	18.5	0		
15	64QAM	36	39	16.62	16.71	16.43				
15	64QAM	75	0	16.52	16.61	16.51				
Channel				20800	21100	21400				
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	16.50	16.49	16.52	18.5	0		
10	QPSK	1	25	16.73	16.60	16.45				
10	QPSK	1	49	16.69	16.54	16.50				
10	QPSK	25	0	16.64	16.55	16.56				
10	QPSK	25	12	16.59	16.66	16.35	18.5	0		
10	QPSK	25	25	16.54	16.50	16.45				
10	QPSK	50	0	16.61	16.66	16.38				
10	16QAM	1	0	16.60	16.64	16.59	18.5	0		
10	16QAM	1	25	16.67	16.54	16.59				
10	16QAM	1	49	16.56	16.60	16.50				
10	16QAM	25	0	16.54	16.39	16.30				
10	16QAM	25	12	16.59	16.51	16.21	18.5	0		
10	16QAM	25	25	16.44	16.39	16.27				
10	16QAM	50	0	16.49	16.42	16.34				
10	64QAM	1	0	16.56	16.42	16.49				
10	64QAM	1	25	16.56	16.46	16.45	18.5	0		
10	64QAM	1	49	16.56	16.41	16.39				
10	64QAM	25	0	16.72	16.61	16.48				
10	64QAM	25	12	16.52	16.63	16.33	18.5	0		
10	64QAM	25	25	16.62	16.71	16.43				
10	64QAM	50	0	16.52	16.61	16.51				
Channel				20775	21100	21425				
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	0	16.50	16.49	16.52	18.5	0		
5	QPSK	1	12	16.73	16.60	16.45				
5	QPSK	1	24	16.69	16.54	16.50				
5	QPSK	12	0	16.64	16.55	16.56				
5	QPSK	12	7	16.59	16.66	16.35	18.5	0		
5	QPSK	12	13	16.54	16.50	16.45				
5	QPSK	25	0	16.61	16.66	16.38				
5	16QAM	1	0	16.60	16.64	16.59	18.5	0		
5	16QAM	1	12	16.67	16.54	16.59				
5	16QAM	1	24	16.56	16.60	16.50				
5	16QAM	12	0	16.54	16.39	16.30				
5	16QAM	12	7	16.59	16.51	16.21	18.5	0		
5	16QAM	12	13	16.44	16.39	16.27				
5	16QAM	25	0	16.49	16.42	16.34				
5	64QAM	1	0	16.56	16.42	16.49				
5	64QAM	1	12	16.56	16.46	16.45	18.5	0		
5	64QAM	1	24	16.56	16.41	16.39				
5	64QAM	12	0	16.72	16.61	16.48				
5	64QAM	12	7	16.52	16.63	16.33	18.5	0		
5	64QAM	12	13	16.62	16.71	16.43				
5	64QAM	25	0	16.52	16.61	16.51				

Band 66_Ant 1										
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)				1723	1745	1767				
20	QPSK	1	0	16.04	16.28	16.25	17	0		
20	QPSK	1	49	15.86	15.98	15.84				
20	QPSK	1	99	15.94	16.09	15.88				
20	QPSK	50	0	15.85	16.15	16.14				
20	QPSK	50	24	15.78	16.11	15.96	17	0		
20	QPSK	50	50	15.84	16.14	15.88				
20	QPSK	100	0	15.80	16.11	15.95				
20	16QAM	1	0	15.77	16.14	16.16				
20	16QAM	1	49	15.79	15.89	15.75	17	0		
20	16QAM	1	99	15.86	16.03	15.81				
20	16QAM	50	0	15.65	16.03	16.09				
20	16QAM	50	24	15.65	16.01	15.93	17	0		
20	16QAM	50	50	15.71	16.06	15.86				
20	16QAM	100	0	15.68	16.04	15.93				
20	64QAM	1	0	15.72	16.08	16.07				
20	64QAM	1	49	15.62	15.96	15.86	17	0		
20	64QAM	1	99	15.89	16.10	15.95				
20	64QAM	50	0	15.59	15.96	16.04				
20	64QAM	50	24	15.58	15.95	15.88	17	0		
20	64QAM	50	50	15.65	16.01	15.83				
20	64QAM	100	0	15.60	15.96	15.86				
Channel				132047	132322	132697				
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	15.98	16.16	16.12	17	0		
15	QPSK	1	37	15.69	15.80	15.75				
15	QPSK	1	74	15.89	16.01	15.77				
15	QPSK	36	0	15.73	16.14	16.10				
15	QPSK	36	20	15.77	16.07	15.95	17	0		
15	QPSK	36	39	15.73	16.08	15.79				
15	QPSK	75	0	15.71	15.98	15.83				
15	16QAM	1	0	15.67	15.97	16.07	17	0		
15	16QAM	1	37	15.65	15.87	15.87				
15	16QAM	1	74	15.74	15.97	15.83				
15	16QAM	36	0	15.62	15.80	15.99				
15	16QAM	36	20	15.63	15.91	15.74	17	0		
15	16QAM	36	39	15.69	15.88	15.78				



Band 42_Ant 3									
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				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	18.86	18.76	18.85	20	0	
20	QPSK	1	49	18.82	18.72	18.80			
20	QPSK	1	99	18.91	18.05	18.88			
20	QPSK	50	0	18.82	18.85	18.91	20	0	
20	QPSK	50	24	18.87	18.86	18.88			
20	QPSK	50	50	18.91	18.92	18.92			
20	QPSK	100	0	18.88	18.92	18.87	20	0	
20	16QAM	1	0	18.99	18.91	18.98			
20	16QAM	1	49	18.92	18.87	18.95			
20	16QAM	1	99	18.89	18.83	18.89	20	0	
20	16QAM	50	0	19.02	18.96	18.94			
20	16QAM	50	24	18.99	18.94	18.93			
20	16QAM	50	50	18.85	18.89	18.96	20	0	
20	16QAM	100	0	18.99	18.88	18.89			
20	64QAM	1	0	18.88	18.57	18.84			
20	64QAM	1	49	18.84	18.57	18.85	20	0	
20	64QAM	1	99	18.81	18.52	18.55			
20	64QAM	50	0	18.94	18.87	18.89			
20	64QAM	50	24	18.96	18.86	18.84	20	0	
20	64QAM	50	50	18.80	18.84	18.90			
20	64QAM	100	0	19.01	18.96	18.94			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	18.74	18.61	18.79	20	0	
15	QPSK	1	37	18.71	18.60	18.72			
15	QPSK	1	74	18.69	18.91	18.69			
15	QPSK	36	0	18.67	18.72	18.76	20	0	
15	QPSK	36	20	18.81	18.79	18.78			
15	QPSK	36	39	18.74	18.82	18.79			
15	QPSK	75	0	18.76	18.80	18.73	20	0	
15	16QAM	1	0	18.87	18.86	18.90			
15	16QAM	1	37	18.79	18.77	18.89			
15	16QAM	1	74	18.74	18.77	18.73	20	0	
15	16QAM	36	0	18.89	18.81	18.88			
15	16QAM	36	20	18.88	18.87	18.84			
15	16QAM	36	39	18.79	18.78	18.91	20	0	
15	16QAM	75	0	18.88	18.77	18.76			
15	64QAM	1	0	18.58	18.50	18.51			
15	64QAM	1	37	18.62	18.50	18.51	20	0	
15	64QAM	1	74	18.54	18.50	18.50			
15	64QAM	36	0	18.89	18.73	18.83			
15	64QAM	36	20	18.87	18.77	18.69	20	0	
15	64QAM	36	39	18.71	18.72	18.83			
15	64QAM	75	0	18.86	18.83	18.87			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	18.72	18.62	18.79	20	0	
10	QPSK	1	25	18.75	18.59	18.72			
10	QPSK	1	49	18.70	18.99	18.67			
10	QPSK	25	0	18.72	18.72	18.86	20	0	
10	QPSK	25	12	18.78	18.78	18.77			
10	QPSK	25	25	18.75	18.85	18.81			
10	QPSK	50	0	18.72	18.77	18.74	20	0	
10	16QAM	1	0	18.84	18.77	18.90			
10	16QAM	1	25	18.85	18.82	18.90			
10	16QAM	1	49	18.76	18.71	18.82	20	0	
10	16QAM	25	0	18.91	18.87	18.80			
10	16QAM	25	12	18.84	18.80	18.83			
10	16QAM	25	25	18.71	18.76	18.80	20	0	
10	16QAM	50	0	18.90	18.78	18.73			
10	64QAM	1	0	18.63	18.59	18.51			
10	64QAM	1	25	18.53	18.62	18.56	20	0	
10	64QAM	1	49	18.53	18.50	18.50			
10	64QAM	25	0	18.84	18.75	18.82			
10	64QAM	25	12	18.91	18.76	18.71	20	0	
10	64QAM	25	25	18.66	18.78	18.79			
10	64QAM	50	0	18.91	18.83	18.78			
Channel				42115	42590	43065			
Frequency (MHz)				3492.5	3500	3547.5			
5	QPSK	1	0	18.66	18.57	18.70	20	0	
5	QPSK	1	12	18.62	18.57	18.66			
5	QPSK	1	24	18.52	18.66	18.50			
5	QPSK	12	0	18.63	18.71	18.67	20	0	
5	QPSK	12	7	18.63	18.68	18.68			
5	QPSK	12	13	18.73	18.78	18.65			
5	QPSK	25	0	18.63	18.70	18.75	20	0	
5	16QAM	1	0	18.78	18.71	18.77			
5	16QAM	1	12	18.77	18.61	18.72			
5	16QAM	1	24	18.73	18.96	18.68	20	0	
5	16QAM	12	0	18.85	18.75	18.74			
5	16QAM	12	7	18.87	18.81	18.77			
5	16QAM	12	13	18.58	18.77	18.75	20	0	
5	16QAM	25	0	18.81	18.74	18.68			
5	64QAM	1	0	18.63	18.55	18.62			
5	64QAM	1	12	18.63	18.62	18.58	20	0	
5	64QAM	1	24	18.66	18.53	18.53			
5	64QAM	12	0	18.67	18.73	18.74			
5	64QAM	12	7	18.77	18.72	18.65	20	0	
5	64QAM	12	13	18.59	18.61	18.78			
5	64QAM	25	0	18.78	18.75	18.77			



n66_Ant 1									
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				345000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	15.81	15.95	15.81			
40	PI/2 BPSK	1	108	15.07	15.22	15.10	17.0	0.0	
40	PI/2 BPSK	1	214	15.56	15.67	15.49			
40	PI/2 BPSK	108	0	14.31	14.38	14.31	17.0	0.0	
40	PI/2 BPSK	108	54	15.41	15.43	15.27	17.0	0.0	
40	PI/2 BPSK	108	108	14.36	14.42	14.22			
40	PI/2 BPSK	216	0	15.39	15.42	15.22	17.0	0.0	
40	QPSK	1	1	15.88	15.88	15.73			
40	QPSK	1	108	15.17	15.28	15.16	17.0	0.0	
40	QPSK	1	214	15.78	15.84	15.66			
40	QPSK	108	0	15.31	15.47	15.47	17.0	0.0	
40	QPSK	108	54	15.21	15.30	15.18	17.0	0.0	
40	QPSK	108	108	15.42	15.43	15.39	17.0	0.0	
40	QPSK	216	0	15.25	15.43	15.43			
40	16QAM	1	1	15.87	15.87	15.76	17.0	0.0	
40	64QAM	1	1	15.93	15.94	15.82	17.0	0.0	
40	256QAM	1	1	15.67	15.81	15.72	17.0	0.0	
Channel				345000	349000	353000			
Frequency (MHz)				1725	1745	1765	Tune-up limit (dBm)	MPR (dB)	
30	PI/2 BPSK	1	1	15.88	15.83	15.91	17.0	0.0	
Channel				344000	349000	354000			
Frequency (MHz)				1720	1745	1770	Tune-up limit (dBm)	MPR (dB)	
20	PI/2 BPSK	1	1	15.78	15.82	15.80	17.0	0.0	
Channel				343500	349000	354500			
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)	MPR (dB)	
15	PI/2 BPSK	1	1	15.64	15.76	15.81	17.0	0.0	
Channel				343000	349000	355000			
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)	MPR (dB)	
10	PI/2 BPSK	1	1	15.80	15.94	15.76	17.0	0.0	
Channel				342500	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)	MPR (dB)	
5	PI/2 BPSK	1	1	15.70	15.75	15.79	17.0	0.0	



n78_Ant 3(3450-3550)-PC2&PC3

Channel	Power Middle Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel	633000	633334	633666
Frequency (MHz)	3495	3500.01	3504.99
90	15.60	15.80	15.73
Channel	632668	633334	634000
Frequency (MHz)	3490.02	3500.01	3510
80	15.64	15.81	15.73
Channel	632334	633334	634332
Frequency (MHz)	3485.01	3500.01	3514.98
70	15.65	15.74	15.80
Channel	632000	633334	634666
Frequency (MHz)	3480	3500.01	3519.99
60	15.67	15.78	15.76
Channel	631668	633334	635000
Frequency (MHz)	3475.02	3500.01	3525
50	15.69	15.81	15.63
Channel	631334	633334	635332
Frequency (MHz)	3470.01	3500.01	3529.98
40	15.63	15.73	15.81
Channel	631000	633334	635666
Frequency (MHz)	3465	3500.01	3534.99
30	15.64	15.78	15.75
Channel	630668	633334	636000
Frequency (MHz)	3460.02	3500.01	3540
20	15.70	15.81	15.67



DS12 (Head Simultaneous)

Band	WCDMA V. Ant 1			Tune-up Limit (dBm)
	4132	4182	4233	
TX Channel	4357	4407	4458	
Rx Channel	4357	4407	4458	
Frequency (MHz)	926.4	931.4	936.4	
3GPP Rel 99 AMR 12.2Kbps	21.35	21.38	21.50	22.50
3GPP Rel 99 RMC 12.2Kbps	21.37	21.40	21.52	22.50
3GPP Rel 6 HSDPA Subtest-1	20.35	20.40	20.56	22.00
3GPP Rel 6 HSDPA Subtest-2	20.31	20.39	20.55	22.00
3GPP Rel 6 HSDPA Subtest-3	19.84	19.87	20.04	21.50
3GPP Rel 6 HSDPA Subtest-4	19.82	19.89	20.00	21.50
3GPP Rel 6 DC-HSDPA Subtest-1	20.32	20.24	20.20	22.00
3GPP Rel 6 DC-HSDPA Subtest-2	20.14	20.22	20.09	22.00
3GPP Rel 6 DC-HSDPA Subtest-3	19.61	19.76	19.64	21.50
3GPP Rel 6 DC-HSDPA Subtest-4	19.79	19.78	19.82	21.50
3GPP Rel 6 HSUPA Subtest-1	20.33	20.32	20.45	22.00
3GPP Rel 6 HSUPA Subtest-2	18.34	18.37	18.48	20.00
3GPP Rel 6 HSUPA Subtest-3	18.33	18.36	18.51	21.00
3GPP Rel 6 HSUPA Subtest-4	18.33	18.35	18.51	20.00
3GPP Rel 6 HSUPA Subtest-6	20.30	20.36	20.46	22.00



Band 5_Ant 1									
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				20450	20525	20600			
Frequency (MHz)				2177	2175	2187			
10	QPSK	1	0	21.77	21.75	21.87	23	0	
10	QPSK	1	25	21.78	21.80	21.84			
10	QPSK	1	49	21.76	21.86	21.85			
10	QPSK	25	0	21.28	21.28	21.42			
10	QPSK	25	12	21.36	21.40	21.38	22.5	0.5	
10	QPSK	25	25	21.35	21.40	21.36			
10	QPSK	50	0	21.36	21.39	21.46			
10	16QAM	1	0	21.54	21.55	21.58			
10	16QAM	1	25	21.53	21.62	21.68	22.5	0.5	
10	16QAM	1	49	21.52	21.69	21.76			
10	16QAM	25	0	20.60	20.65	20.68			
10	16QAM	25	12	20.69	20.70	20.78			
10	16QAM	25	25	20.65	20.71	20.77	22	1	
10	16QAM	50	0	20.64	20.68	20.73			
10	64QAM	1	0	20.66	20.76	20.83			
10	64QAM	1	25	20.73	20.77	20.92	22	1	
10	64QAM	1	49	20.68	20.87	20.84			
10	64QAM	25	0	19.60	19.65	19.79			
10	64QAM	25	12	19.70	19.72	19.79	21	2	
10	64QAM	25	25	19.68	19.73	19.85			
10	64QAM	50	0	19.67	19.71	19.76			
Channel				20425	20525	20625			
Frequency (MHz)				825.5	836.5	846.5			
5	QPSK	1	0	21.55	21.83	21.85	23	0	
5	QPSK	1	12	21.62	21.73	21.84			
5	QPSK	1	24	21.62	21.80	21.83			
5	QPSK	12	0	21.16	21.12	21.36	22.5	0.5	
5	QPSK	12	7	21.28	21.25	21.31			
5	QPSK	12	13	21.11	21.28	21.31			
5	QPSK	25	0	21.11	21.35	21.22			
5	16QAM	1	0	21.32	21.52	21.47	22.5	0.5	
5	16QAM	1	12	19.84	19.35	19.75			
5	16QAM	1	24	21.34	21.64	21.64			
5	16QAM	12	0	20.40	20.55	20.54			
5	16QAM	12	7	20.59	20.70	20.59	22	1	
5	16QAM	12	13	20.43	20.52	20.61			
5	16QAM	25	0	20.48	20.55	20.52			
5	64QAM	1	0	20.66	20.52	20.71			
5	64QAM	1	12	20.68	20.54	20.70	22	1	
5	64QAM	1	24	20.58	20.62	20.69			
5	64QAM	12	0	19.84	19.85	19.75			
5	64QAM	12	7	19.53	19.59	19.66	21	2	
5	64QAM	12	13	19.56	19.66	19.71			
5	64QAM	25	0	19.49	19.65	19.65			
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	21.34	21.51	21.82	23	0	
3	QPSK	1	8	21.58	21.63	21.81			
3	QPSK	1	14	21.49	21.71	21.61			
3	QPSK	8	0	20.91	20.98	21.10			
3	QPSK	8	4	21.23	21.37	21.21	22.5	0.5	
3	QPSK	8	7	21.28	21.18	21.39			
3	QPSK	15	0	21.20	21.01	21.18			
3	16QAM	1	0	21.19	21.28	21.32	22.5	0.5	
3	16QAM	1	8	21.45	21.35	21.39			
3	16QAM	1	14	21.09	21.55	21.59			
3	16QAM	8	0	20.49	20.61	20.57			
3	16QAM	8	4	20.48	20.37	20.76	22	1	
3	16QAM	8	7	20.41	20.51	20.52			
3	16QAM	15	0	20.31	20.31	20.65			
3	64QAM	1	0	20.48	20.54	20.64			
3	64QAM	1	8	20.48	20.58	20.56	22	1	
3	64QAM	1	14	20.41	20.56	20.61			
3	64QAM	8	0	19.50	19.34	19.57			
3	64QAM	8	4	19.44	19.52	19.63	21	2	
3	64QAM	8	7	19.59	19.40	19.72			
3	64QAM	15	0	19.44	19.59	19.58			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	21.38	21.63	21.63	23	0	
1.4	QPSK	1	3	21.71	21.59	21.62			
1.4	QPSK	1	5	21.35	21.47	21.72			
1.4	QPSK	3	0	21.57	21.74	21.82			
1.4	QPSK	3	1	21.50	21.63	21.86			
1.4	QPSK	3	3	21.55	21.68	21.84	22.5	0.5	
1.4	QPSK	6	0	21.17	20.95	21.26			
1.4	16QAM	1	0	21.19	21.13	21.19			
1.4	16QAM	1	3	21.19	21.25	21.08			
1.4	16QAM	1	5	20.97	21.42	21.43	22.5	0.5	
1.4	16QAM	3	0	20.94	21.25	21.28			
1.4	16QAM	3	1	20.88	21.29	21.23			
1.4	16QAM	3	3	20.86	21.22	21.35			
1.4	16QAM	6	0	20.31	20.19	20.33	22	1	
1.4	64QAM	1	0	20.24	20.30	20.61			
1.4	64QAM	1	3	20.39	20.49	20.35			
1.4	64QAM	1	5	20.15	20.60	20.34	22	1	
1.4	64QAM	3	0	20.00	20.53	20.21			
1.4	64QAM	3	1	20.12	20.43	20.33			
1.4	64QAM	3	3	20.05	20.54	20.18			
1.4	64QAM	6	0	19.27	19.57	19.34	21	2	

Band 7_Ant 1									
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	15.84	15.74	15.63	17.5	0	
20	QPSK	1	49	15.79	15.70	15.61			
20	QPSK	1	99	15.89	15.75	15.72			
20	QPSK	50	0	15.88	15.81	15.86			
20	QPSK	50	24	15.84	15.71	15.68	17.5	0	
20	QPSK	50	50	15.81	15.73	15.62			
20	QPSK	100	0	15.85	15.79	15.73			
20	16QAM	1	0	15.52	15.68	15.58			
20	16QAM	1	49	15.77	15.67	15.56	17.5	0	
20	16QAM	1	99	15.87	15.69	15.52			
20	16QAM	50	0	15.89	15.75	15.69			
20	16QAM	50	24	15.82	15.60	15.61	17.5	0	
20	16QAM	50	50	15.79	15.60	15.60			
20	16QAM	100	0	15.77	15.63	15.56			
20	64QAM	1	0	15.55	15.55	15.53			
20	64QAM	1	49	15.64	15.53	15.49	17.5	0	
20	64QAM	1	99	15.78	15.61	15.52			
20	64QAM	50	0	15.75	15.61	15.81			
20	64QAM	50	24	15.67	15.73	15.57	17.5	0	
20	64QAM	50	50	15.61	15.62	15.52			
20	64QAM	100	0	15.71	15.70	15.67			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	15.45	15.62	15.58	17.5	0	
15	QPSK	1	37	15.70	15.57	15.60			
15	QPSK	1	74	15.70	15.64	15.69			
15	QPSK	36	0	15.71	15.66	15.73			
15	QPSK	36	20	15.66	15.73	15.54	17.5	0	
15	QPSK	36	39	15.63	15.67	15.43			
15	QPSK	75	0	15.79	15.75	15.57			
15	16QAM	1	0	15.46	15.67	15.48	17.5	0	
15	16QAM	1	37	15.75	15.61	15.37			
15	16QAM	1	74	15.83	15.64	15.40			
15	16QAM	36	0	15.66	15.69	15.66			
15	16QAM	36	20	15.81	15.48	15.43	17.5	0	
15	16QAM	36	39	15.60	15.42	15.44			
15	16QAM	75	0	15.63	15.50	15.50			
15	64QAM	1	0	15.50	15.45	15.49			
15	64QAM	1	37	15.47	15.40	15.47	17.5	0	
15	64QAM	1	74	15.70	15.44	15.48			
15	64QAM	36	0	15.59	15.58	15.47			
15	64QAM	36	20	15.52	15.68	15.47	17.5	0	
15	64QAM	36	39	15.43	15.50	15.47			
15	64QAM	75	0	15.59	15.6				



Band 26_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				26765	26865	26965				
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	21.71	21.89	21.78	23	0		
15	QPSK	1	37	21.67	21.59	21.76				
15	QPSK	1	74	21.64	21.62	21.74				
15	QPSK	36	0	21.29	21.48	21.37				
15	QPSK	36	20	21.01	21.05	21.35	23	0		
15	QPSK	36	39	21.05	21.03	21.33				
15	QPSK	75	0	21.10	21.36	21.15				
15	16QAM	1	0	21.38	21.35	21.43				
15	16QAM	1	37	21.37	21.24	21.44	23	0		
15	16QAM	1	74	21.31	21.36	21.39				
15	16QAM	36	0	20.45	20.31	20.43				
15	16QAM	36	20	20.44	20.42	20.49				
15	16QAM	36	39	20.37	20.34	20.49	22	1		
15	16QAM	75	0	20.43	20.36	20.46				
15	64QAM	1	0	20.60	20.41	20.58				
15	64QAM	1	37	20.47	20.35	20.56	22	1		
15	64QAM	1	74	20.59	20.58	20.60				
15	64QAM	36	0	19.48	19.30	19.53				
15	64QAM	36	20	19.45	19.39	19.48				
15	64QAM	36	39	19.42	19.39	19.54				
15	64QAM	75	0	19.44	19.39	19.49	21	2		
Channel				26740	26865	26990				
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	21.53	21.52	21.61	23	0		
10	QPSK	1	25	21.65	21.51	21.61				
10	QPSK	1	49	21.54	21.39	21.49				
10	QPSK	25	0	21.33	21.31	21.31				
10	QPSK	25	12	21.36	21.27	21.37	23	0		
10	QPSK	25	25	21.35	21.02	21.11				
10	QPSK	50	0	21.33	21.27	21.04				
10	16QAM	1	0	21.18	21.32	21.31	23	0		
10	16QAM	1	25	21.29	21.24	21.43				
10	16QAM	1	49	21.29	21.16	21.22				
10	16QAM	25	0	20.27	20.24	20.25				
10	16QAM	25	12	20.27	20.37	20.24	22	1		
10	16QAM	25	25	20.36	20.30	20.47				
10	16QAM	50	0	20.19	20.34	20.42				
10	64QAM	1	0	20.52	20.17	20.47				
10	64QAM	1	25	20.32	20.19	20.44	22	1		
10	64QAM	1	49	20.56	20.33	20.38				
10	64QAM	25	0	19.44	19.07	19.31				
10	64QAM	25	12	19.34	19.35	19.27				
10	64QAM	25	25	19.23	19.23	19.31	21	2		
10	64QAM	50	0	19.29	19.37	19.35				
Channel				26715	26865	27015				
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	21.47	21.29	21.60	23	0		
5	QPSK	1	12	21.44	21.21	21.48				
5	QPSK	1	24	21.41	21.40	21.39				
5	QPSK	12	0	21.19	21.15	21.34				
5	QPSK	12	7	21.32	21.24	21.11	23	0		
5	QPSK	12	13	21.26	21.20	21.37				
5	QPSK	25	0	21.33	21.26	21.13				
5	16QAM	1	0	21.00	21.00	21.43				
5	16QAM	1	12	21.02	21.31	21.27	23	0		
5	16QAM	1	24	21.05	21.38	21.11				
5	16QAM	12	0	20.40	20.14	20.28				
5	16QAM	12	7	20.24	20.49	20.55				
5	16QAM	12	13	20.23	20.38	20.43	22	1		
5	16QAM	25	0	20.29	20.31	20.34				
5	64QAM	1	0	20.56	20.38	20.54				
5	64QAM	1	12	20.36	20.33	20.65	22	1		
5	64QAM	1	24	20.49	20.41	20.43				
5	64QAM	12	0	19.52	19.15	19.53				
5	64QAM	12	7	19.40	19.21	19.32				
5	64QAM	12	13	19.38	19.41	19.25	21	2		
5	64QAM	25	0	19.42	19.37	19.58				
Channel				26705	26865	27025				
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	21.33	21.14	21.61	23	0		
3	QPSK	1	8	21.38	21.20	21.26				
3	QPSK	1	14	21.30	21.40	21.20				
3	QPSK	8	0	21.21	21.25	21.35				
3	QPSK	8	4	21.24	21.33	21.34	23	0		
3	QPSK	15	0	21.28	21.35	21.05				
3	QPSK	15	0	21.00	21.16	21.30				
3	16QAM	1	0	21.01	21.12	21.52				
3	16QAM	1	8	21.29	21.30	21.20	23	0		
3	16QAM	1	14	21.16	21.16	21.29				
3	16QAM	8	0	20.28	20.04	20.18				
3	16QAM	8	4	20.10	20.48	20.42	22	1		
3	16QAM	8	7	20.37	20.13	20.26				
3	16QAM	15	0	20.22	20.31	20.21				
3	64QAM	1	0	20.27	20.16	20.20	22	1		
3	64QAM	1	8	20.16	20.21	20.65				
3	64QAM	1	14	20.24	20.32	20.32				
3	64QAM	8	0	19.14	19.00	19.55				
3	64QAM	8	4	19.14	19.08	19.07	21	2		
3	64QAM	8	7	19.23	19.17	19.26				
3	64QAM	15	0	19.11	19.23	19.38				
Channel				26697	26865	27033				
Frequency (MHz)				814.7	831.5	848.3				
1.4	QPSK	1	0	21.24	21.38	21.54	23	0		
1.4	QPSK	1	3	21.20	21.13	21.09				
1.4	QPSK	1	5	21.27	21.31	21.11				
1.4	QPSK	3	0	21.13	21.33	21.45				
1.4	QPSK	3	1	21.12	21.37	21.32				
1.4	QPSK	3	3	21.09	21.20	21.05				
1.4	QPSK	6	0	21.25	21.12	21.22	23	0		
1.4	16QAM	1	0	21.38	21.11	21.32				
1.4	16QAM	1	3	21.12	21.18	21.03				
1.4	16QAM	1	5	21.39	21.06	21.16	23	0		
1.4	16QAM	3	0	21.22	21.38	21.30				
1.4	16QAM	3	1	21.02	21.21	21.39				
1.4	16QAM	3	3	21.34	21.04	21.03				
1.4	16QAM	6	0	20.04	20.24	20.01	22	1		
1.4	64QAM	1	0	20.24	21.11	20.02				
1.4	64QAM	1	3	20.05	20.19	20.51				
1.4	64QAM	1	5	20.12	20.23	20.13				
1.4	64QAM	3	0	20.08	20.14	20.06	22	1		
1.4	64QAM	3	1	20.00	20.19	20.33				
1.4	64QAM	3	3	20.12	20.12	20.03				
1.4	64QAM	6	0	19.09	19.18	19.23	21	2		

Band 66_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				132072	132322	132572				
Frequency (MHz)				1723	1745	1767				
20	QPSK	1	0	15.25	15.65	15.60	16.5	0		
20	QPSK	1	49	15.23	15.60	15.59				
20	QPSK	1	99	15.24	15.48	15.42				
20	QPSK	50	0	15.41	15.63	15.47				
20	QPSK	50	24	15.35	15.62	15.45	16.5	0		
20	QPSK	50	50	15.39	15.61	15.46				
20	QPSK	100	0	15.36	15.55	15.53				
20	16QAM	1	0	15.24	15.59	15.52				
20	16QAM	1	49	15.29	15.57	15.58	16.5	0		
20	16QAM	1	99	15.16	15.40	15.23				
20	16QAM	50	0	15.17	15.53	15.59				
20	16QAM	50	24	15.15	15.50	15.41				
20	16QAM	50	50	15.21	15.54	15.32	16.5	0		



Band 42_Ant 3									
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				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	17.85	17.88	17.83	19	0	
20	QPSK	1	49	17.82	17.81	17.82			
20	QPSK	1	99	17.91	18.02	17.93			
20	QPSK	50	0	17.82	17.91	17.93	19	0	
20	QPSK	50	24	17.81	17.92	17.91			
20	QPSK	50	50	17.88	17.95	17.94			
20	QPSK	100	0	17.80	17.91	17.88	19	0	
20	16QAM	1	0	18.01	17.93	18.00			
20	16QAM	1	49	17.96	17.87	17.94			
20	16QAM	1	99	17.91	17.84	17.91	19	0	
20	16QAM	50	0	17.94	17.96	17.96			
20	16QAM	50	24	17.89	17.93	17.92			
20	16QAM	50	50	17.91	17.89	17.94	19	0	
20	16QAM	100	0	18.00	17.94	17.96			
20	64QAM	1	0	17.71	17.62	17.66			
20	64QAM	1	49	17.66	17.56	17.64	19	0	
20	64QAM	1	99	17.59	17.53	17.55			
20	64QAM	50	0	17.99	17.89	17.90			
20	64QAM	50	24	17.98	17.87	17.84	19	0	
20	64QAM	50	50	17.82	17.83	17.90			
20	64QAM	100	0	17.82	17.89	17.86			
Channel				42165	42590	43015			
Frequency (MHz)				3497.5	3500	3542.5			
15	QPSK	1	0	17.80	17.82	17.73	19	0	
15	QPSK	1	37	17.74	17.68	17.68			
15	QPSK	1	74	17.68	17.96	17.64			
15	QPSK	36	0	17.81	17.80	17.87	19	0	
15	QPSK	36	20	17.82	17.80	17.85			
15	QPSK	36	39	17.81	17.87	17.86			
15	QPSK	75	0	17.70	17.82	17.76	19	0	
15	16QAM	1	0	17.95	17.78	17.90			
15	16QAM	1	37	17.88	17.81	17.86			
15	16QAM	1	74	17.79	17.76	17.80	19	0	
15	16QAM	36	0	17.79	17.82	17.85			
15	16QAM	36	20	17.84	17.81	17.83			
15	16QAM	36	39	17.79	17.81	17.78	19	0	
15	16QAM	75	0	17.93	17.79	17.79			
15	64QAM	1	0	17.65	17.56	17.50			
15	64QAM	1	37	17.67	17.50	17.50	19	0	
15	64QAM	1	74	17.61	17.57	17.54			
15	64QAM	36	0	17.90	17.83	17.79			
15	64QAM	36	20	17.82	17.74	17.69	19	0	
15	64QAM	36	39	17.70	17.71	17.79			
15	64QAM	75	0	17.79	17.73	17.75			
Channel				42140	42590	43040			
Frequency (MHz)				3465	3500	3545			
10	QPSK	1	0	17.64	17.65	17.66	19	0	
10	QPSK	1	25	17.71	17.58	17.62			
10	QPSK	1	49	17.59	17.81	17.57			
10	QPSK	25	0	17.70	17.73	17.79	19	0	
10	QPSK	25	12	17.74	17.75	17.71			
10	QPSK	25	25	17.63	17.80	17.68			
10	QPSK	50	0	17.58	17.80	17.68	19	0	
10	16QAM	1	0	17.78	17.69	17.76			
10	16QAM	1	25	17.70	17.72	17.81			
10	16QAM	1	49	17.72	17.58	17.72	19	0	
10	16QAM	25	0	17.71	17.76	17.80			
10	16QAM	25	12	17.76	17.80	17.77			
10	16QAM	25	25	17.75	17.76	17.72	19	0	
10	16QAM	50	0	17.77	17.69	17.76			
10	64QAM	1	0	17.75	17.61	17.75			
10	64QAM	1	25	17.75	17.60	17.65	19	0	
10	64QAM	1	49	17.65	17.51	17.51			
10	64QAM	25	0	17.79	17.65	17.76			
10	64QAM	25	12	17.73	17.67	17.66	19	0	
10	64QAM	25	25	17.68	17.60	17.72			
10	64QAM	50	0	17.71	17.70	17.67			
Channel				42115	42590	43065			
Frequency (MHz)				3492.5	3500	3547.5			
5	QPSK	1	0	17.57	17.69	17.56	19	0	
5	QPSK	1	12	17.51	17.55	17.51			
5	QPSK	1	24	17.55	17.79	17.55			
5	QPSK	12	0	17.67	17.63	17.65	19	0	
5	QPSK	12	7	17.63	17.69	17.67			
5	QPSK	12	13	17.66	17.63	17.66			
5	QPSK	25	0	17.58	17.75	17.60	19	0	
5	16QAM	1	0	17.78	17.69	17.76			
5	16QAM	1	12	17.76	17.62	17.75			
5	16QAM	1	24	17.61	17.54	17.59	19	0	
5	16QAM	12	0	17.64	17.66	17.69			
5	16QAM	12	7	17.68	17.70	17.71			
5	16QAM	12	13	17.56	17.68	17.65	19	0	
5	16QAM	25	0	17.77	17.65	17.69			
5	64QAM	1	0	17.73	17.56	17.56			
5	64QAM	1	12	17.69	17.56	17.65	19	0	
5	64QAM	1	24	17.55	17.50	17.55			
5	64QAM	12	0	17.73	17.60	17.61			
5	64QAM	12	7	17.71	17.62	17.59	19	0	
5	64QAM	12	13	17.54	17.57	17.59			
5	64QAM	25	0	17.81	17.66	17.51			



n5_Ant 1									
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				166300	167300	168300			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	22.41	22.40	22.34	23.0	0.0	
20	PI/2 BPSK	1	53	22.15	22.29	22.23			
20	PI/2 BPSK	1	104	22.12	22.14	22.01			
20	PI/2 BPSK	50	0	22.24	22.26	22.18	23.0	0.0	
20	PI/2 BPSK	50	28	22.35	22.33	22.16	23.0	0.0	
20	PI/2 BPSK	50	56	22.21	22.21	22.12	23.0	0.0	
20	PI/2 BPSK	100	0	22.34	22.31	22.14			
20	QPSK	1	1	22.33	22.36	22.24			
20	QPSK	1	53	22.21	22.32	22.23	23.0	0.0	
20	QPSK	1	104	22.15	22.21	22.17			
20	QPSK	50	0	22.21	22.31	22.26			
20	QPSK	50	28	22.15	22.29	22.16	23.0	0.0	
20	QPSK	50	56	22.15	22.23	22.16	23.0	0.0	
20	QPSK	100	0	22.24	22.28	22.23			
20	16QAM	1	1	22.20	22.25	22.09			
20	64QAM	1	1	20.98	21.12	20.97	21.5	1.5	
20	256QAM	1	1	18.67	18.82	18.74	19.5	3.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	PI/2 BPSK	1	1	22.26	22.32	22.18	23.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	PI/2 BPSK	1	1	22.33	22.33	22.33	23.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	PI/2 BPSK	1	1	22.34	22.38	22.25	23.0	0.0	

n66_Ant 1									
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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	14.87	14.95	14.87	16.0	0.0	
40	PI/2 BPSK	1	108	14.15	14.22	14.22			
40	PI/2 BPSK	1	214	14.55	14.67	14.62			
40	PI/2 BPSK	108	0	13.33	13.36	13.36	16.0	0.0	
40	PI/2 BPSK	108	54	14.30	14.43	14.35	16.0	0.0	
40	PI/2 BPSK	108	108	13.23	13.42	13.41	16.0	0.0	
40	PI/2 BPSK	216	0	14.40	14.42	14.30			
40	QPSK	1	1	14.82	14.88	14.82			
40	QPSK	1	108	14.17	14.28	14.27	16.0	0.0	
40	QPSK	1	214	14.78	14.84	14.83			
40	QPSK	108	0	14.27	14.47	14.45			
40	QPSK	108	54	14.10	14.30	14.23	16.0	0.0	
40	QPSK	108	108	14.27	14.43	14.38	16.0	0.0	
40	QPSK	216	0	14.27	14.43	14.39			
40	16QAM	1	1	14.76	14.87	14.81			
40	64QAM	1	1	14.89	14.94	14.93	16.0	0.0	
40	256QAM	1	1	14.75	14.81	14.78	16.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	PI/2 BPSK	1	1	14.84	14.92	14.85	16.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	PI/2 BPSK	1	1	14.88	14.93	14.90	16.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	PI/2 BPSK	1	1	14.82	14.74	14.78	16.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	PI/2 BPSK	1	1	14.91	14.84	14.91	16.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	PI/2 BPSK	1	1	14.78	14.85	14.82	16.0	0.0	



n78_Ant 3(3450-3550)-PC2&PC3									
BW [MHz]	Modulation	RB Size	RB Offset		Power Middle Ch. J. Freq.			Tune-up limit (dBm)	MPR (dB)
Channel					633000	633334	633666		
Frequency (MHz)					3495	3500.01	3504.99		
100	PI/2 BPSK	1	1		14.67			15.5	0.0
100	PI/2 BPSK	1	137		14.77				
100	PI/2 BPSK	1	271		14.51				
100	PI/2 BPSK	135	0		14.61			15.5	0.0
100	PI/2 BPSK	135	69		14.74			15.5	0.0
100	PI/2 BPSK	135	138		14.71			15.5	0.0
100	PI/2 BPSK	270	0		14.76				
100	QPSK	1	1		14.70				
100	QPSK	1	137		14.61			15.5	0.0
100	QPSK	1	271		14.58				
100	QPSK	135	0		14.68				
100	QPSK	135	69		14.60			15.5	0.0
100	QPSK	135	138		14.62				
100	QPSK	270	0		14.53				
100	16QAM	1	1		14.62			15.5	0.0
100	64QAM	1	1		14.71			15.5	0.0
100	256QAM	1	1		14.69			15.5	0.0
Channel					633000	633334	633666		
Frequency (MHz)					3495	3500.01	3504.99		
90	PI/2 BPSK	1	1		14.55	14.75	14.68	15.5	0.0
Channel					632668	633334	634000		
Frequency (MHz)					3490.02	3500.01	3510		
80	PI/2 BPSK	1	1		14.59	14.76	14.68	15.5	0.0
Channel					632334	633334	634332		
Frequency (MHz)					3485.01	3500.01	3514.98		
70	PI/2 BPSK	1	1		14.60	14.69	14.75	15.5	0.0
Channel					632000	633334	634666		
Frequency (MHz)					3480	3500.01	3519.99		
60	PI/2 BPSK	1	1		14.62	14.73	14.71	15.5	0.0
Channel					631668	633334	635000		
Frequency (MHz)					3475.02	3500.01	3525		
50	PI/2 BPSK	1	1		14.64	14.76	14.58	15.5	0.0
Channel					631334	633334	635332		
Frequency (MHz)					3470.01	3500.01	3529.98		
40	PI/2 BPSK	1	1		14.58	14.68	14.76	15.5	0.0
Channel					631000	633334	635666		
Frequency (MHz)					3465	3500.01	3534.99		
30	PI/2 BPSK	1	1		14.59	14.73	14.70	15.5	0.0
Channel					630668	633334	636000		
Frequency (MHz)					3460.02	3500.01	3540		
20	PI/2 BPSK	1	1		14.44	14.60	14.64	15.5	0.0



DS13(Body-Worn Simultaneous&Hotspot)

GSM850-Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	30.97	30.83	30.86	32.70	21.97	21.83	21.86	23.70
GPRS 1 Tx slot	30.99	30.84	30.87	32.70	21.99	21.84	21.87	23.70
GPRS 2 Tx slots	27.78	27.64	27.76	29.70	21.78	21.64	21.76	23.70
GPRS 3 Tx slots	26.86	26.69	26.85	28.00	22.60	22.43	22.59	23.74
GPRS 4 Tx slots	24.30	24.67	24.34	26.70	21.30	21.67	21.34	23.70
EDGE 1 Tx slot	25.46	25.43	25.49	26.00	16.46	16.43	16.49	17.00
EDGE 2 Tx slots	24.00	23.77	23.74	24.50	18.00	17.77	17.74	18.50
EDGE 3 Tx slots	22.84	22.53	22.50	23.50	18.58	18.27	18.24	19.24
EDGE 4 Tx slots	20.80	20.68	20.86	21.50	17.80	17.68	17.86	18.50

GSM1900-Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	25.56	25.51	25.54	26.00	16.56	16.51	16.54	17.00
GPRS 1 Tx slot	25.54	25.48	25.53	26.00	16.54	16.48	16.53	17.00
GPRS 2 Tx slots	22.12	22.03	22.18	23.00	16.12	16.03	16.18	17.00
GPRS 3 Tx slots	20.36	20.32	20.36	21.50	16.10	16.06	16.10	17.24
GPRS 4 Tx slots	19.65	19.77	19.79	20.00	16.65	16.77	16.79	17.00
EDGE 1 Tx slot	24.58	24.25	24.67	25.50	15.58	15.25	15.67	16.50
EDGE 2 Tx slots	22.14	22.35	21.85	23.00	16.14	16.35	15.85	17.00
EDGE 3 Tx slots	19.98	19.95	20.12	21.50	15.72	15.69	15.86	17.24
EDGE 4 Tx slots	19.14	19.26	19.33	20.00	16.14	16.26	16.33	17.00

Band	WCDMA II_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 1			Tune-up Limit (dBm)	
	TX Channel	9262	9400		9538	1512	1413		1513	4132	4182		4233
Rx Channel	9262	9300	9338		1537	1633	1733		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1732.4	1732.6	1752.6		326.4	336.4	346.6		
3GPP Rel 99	AMR 12.2Kbps	15.21	15.24	15.32	16.50	16.02	16.04	15.94	17.00	21.35	21.38	21.90	22.50
3GPP Rel 99	RMC 12.2Kbps	15.26	15.31	15.44	16.50	16.11	16.12	15.78	17.00	21.37	21.40	21.52	22.50
3GPP Rel 6	HSDPA Subtest-1	14.20	14.35	14.19	15.50	14.95	15.13	14.99	16.00	20.35	20.40	20.56	22.00
3GPP Rel 6	HSDPA Subtest-2	14.21	14.37	14.19	15.50	14.87	14.68	14.99	16.00	20.31	20.39	20.55	22.00
3GPP Rel 6	HSDPA Subtest-3	13.77	13.83	13.82	15.00	14.44	14.68	14.41	15.50	19.84	19.87	20.04	21.50
3GPP Rel 6	HSDPA Subtest-4	13.73	13.84	13.80	15.00	14.38	14.51	14.44	15.50	19.82	19.89	20.00	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	14.00	14.11	14.12	15.50	14.78	14.76	14.66	16.00	20.32	20.24	20.20	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	14.08	14.07	14.05	15.50	14.89	14.81	14.81	16.00	20.14	20.22	20.09	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	13.89	13.72	13.71	15.00	14.14	14.22	14.13	15.50	19.61	19.76	19.54	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	13.66	13.61	13.60	15.00	14.26	14.42	14.32	15.50	19.79	19.78	19.82	21.50
3GPP Rel 6	HSUPA Subtest-1	14.22	14.18	14.17	15.50	14.13	14.20	14.09	16.00	20.33	20.32	20.45	22.00
3GPP Rel 6	HSUPA Subtest-2	12.25	12.21	12.26	13.50	12.01	12.02	12.14	14.00	18.34	18.37	18.48	20.00
3GPP Rel 6	HSUPA Subtest-3	13.32	13.24	13.30	14.50	13.24	13.19	13.20	15.00	19.33	19.36	19.51	21.00
3GPP Rel 6	HSUPA Subtest-4	12.13	12.17	12.20	13.50	12.09	12.21	12.07	14.00	18.33	18.35	18.51	20.00
3GPP Rel 6	HSUPA Subtest-5	14.24	14.20	14.27	15.50	14.14	14.17	14.09	16.00	20.30	20.36	20.46	22.00

Band	WCDMA V-Ant 0			Tune-up Limit (dBm)	
	TX Channel	4132	4182		4233
Rx Channel	4357	4407	4458		
Frequency (MHz)	326.4	336.4	346.6		
3GPP Rel 99	AMR 12.2Kbps	22.07	22.12	22.21	23.00
3GPP Rel 99	RMC 12.2Kbps	22.10	22.09	22.22	23.00
3GPP Rel 6	HSDPA Subtest-1	21.04	21.09	21.12	22.00
3GPP Rel 6	HSDPA Subtest-2	21.08	21.06	21.13	22.00
3GPP Rel 6	HSDPA Subtest-3	20.52	20.61	20.64	21.50
3GPP Rel 6	HSDPA Subtest-4	20.44	20.52	20.62	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.02	20.98	21.10	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.01	21.09	21.11	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	20.50	20.43	20.62	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.49	20.54	20.60	21.50
3GPP Rel 6	HSUPA Subtest-1	21.41	21.34	21.46	22.00
3GPP Rel 6	HSUPA Subtest-2	19.39	19.47	19.55	20.00
3GPP Rel 6	HSUPA Subtest-3	20.49	20.41	20.60	21.00
3GPP Rel 6	HSUPA Subtest-4	19.33	19.31	19.40	20.00
3GPP Rel 6	HSUPA Subtest-5	20.31	20.32	20.44	22.00



Band 2_Ant 0										
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	14.11	14.07	13.89				
20	QPSK	1	49	13.83	13.91	14.01		15	0	
20	QPSK	1	99	13.76	13.90	13.87				
20	QPSK	50	0	14.02	13.95	13.97				
20	QPSK	50	24	13.89	13.94	13.93				
20	QPSK	50	50	13.81	13.82	13.86		15	0	
20	QPSK	100	0	13.91	13.88	13.80				
20	16QAM	1	0	14.07	13.84	13.88				
20	16QAM	1	49	13.95	13.94	14.02		15	0	
20	16QAM	1	99	13.84	13.97	13.93				
20	16QAM	50	0	13.80	13.76	13.86				
20	16QAM	50	24	13.81	13.74	13.85				
20	16QAM	50	50	13.72	13.79	13.82		15	0	
20	16QAM	100	0	13.80	13.81	13.86				
20	64QAM	1	0	14.03	13.86	13.88				
20	64QAM	1	49	13.79	13.86	14.04		15	0	
20	64QAM	1	99	13.76	13.84	13.85				
20	64QAM	50	0	13.86	13.82	13.87				
20	64QAM	50	24	13.85	13.80	13.85		15	0	
20	64QAM	50	50	13.74	13.82	13.87				
20	64QAM	100	0	13.85	13.86	13.83				
Channel										
Frequency (MHz)										
15	QPSK	1	0	14.04	13.99	13.94				
15	QPSK	1	37	13.76	13.78	13.94		15	0	
15	QPSK	1	74	13.83	13.83	13.80				
15	QPSK	36	0	13.91	13.81	13.84				
15	QPSK	36	20	13.84	13.81	13.81		15	0	
15	QPSK	36	39	13.65	13.87	13.76				
15	QPSK	75	0	13.77	13.76	13.70				
15	16QAM	1	0	13.81	13.79	13.75				
15	16QAM	1	37	13.74	13.75	13.86		15	0	
15	16QAM	1	74	13.76	13.92	13.82				
15	16QAM	36	0	13.69	13.71	13.74				
15	16QAM	36	20	13.74	13.62	13.75		15	0	
15	16QAM	36	39	13.62	13.71	13.71				
15	16QAM	75	0	13.71	13.67	13.75				
15	64QAM	1	0	13.94	13.77	13.72				
15	64QAM	1	37	13.67	13.73	13.93		15	0	
15	64QAM	1	74	13.71	13.79	13.70				
15	64QAM	36	0	13.63	13.76	13.76				
15	64QAM	36	20	13.69	13.71	13.70		15	0	
15	64QAM	36	39	13.61	13.67	13.76				
15	64QAM	75	0	13.73	13.75	13.72				
Channel										
Frequency (MHz)										
10	QPSK	1	0	13.97	13.97	13.99				
10	QPSK	1	25	13.70	13.83	13.86		15	0	
10	QPSK	1	49	13.65	13.82	13.72				
10	QPSK	25	0	13.96	13.83	13.91				
10	QPSK	25	12	13.81	13.79	13.77		15	0	
10	QPSK	25	25	13.68	13.79	13.75				
10	QPSK	50	0	13.84	13.75	13.71				
10	16QAM	1	0	13.94	13.74	13.73				
10	16QAM	1	25	13.90	13.89	13.86		15	0	
10	16QAM	1	49	13.79	13.86	13.87				
10	16QAM	25	0	13.74	13.71	13.81				
10	16QAM	25	12	13.65	13.69	13.79		15	0	
10	16QAM	25	25	13.62	13.63	13.70				
10	16QAM	50	0	13.73	13.75	13.72				
10	64QAM	1	0	13.96	13.71	13.74				
10	64QAM	1	25	13.69	13.74	13.85		15	0	
10	64QAM	1	49	13.65	13.74	13.80				
10	64QAM	25	0	13.79	13.75	13.71				
10	64QAM	25	12	13.71	13.71	13.71		15	0	
10	64QAM	25	25	13.62	13.76	13.72				
10	64QAM	50	0	13.78	13.77	13.67				
Channel										
Frequency (MHz)										
5	QPSK	1	0	14.05	14.02	13.94				
5	QPSK	1	12	13.73	13.80	13.95		15	0	
5	QPSK	1	24	13.66	13.85	13.79				
5	QPSK	12	0	13.91	13.86	13.92				
5	QPSK	12	7	13.77	13.83	13.89		15	0	
5	QPSK	12	13	13.68	13.76	13.79				
5	QPSK	25	0	13.81	13.80	13.88				
5	16QAM	1	0	13.94	13.76	13.77				
5	16QAM	1	12	13.88	13.88	13.89		15	0	
5	16QAM	1	24	13.74	13.89	13.84				
5	16QAM	12	0	13.72	13.69	13.72				
5	16QAM	12	7	13.71	13.66	13.70		15	0	
5	16QAM	12	13	13.67	13.69	13.69				
5	16QAM	25	0	13.72	13.73	13.81				
5	64QAM	1	0	13.87	13.81	13.76				
5	64QAM	1	12	13.63	13.73	13.83		15	0	
5	64QAM	1	24	13.63	13.68	13.72				
5	64QAM	12	0	13.73	13.66	13.75				
5	64QAM	12	7	13.70	13.64	13.74		15	0	
5	64QAM	12	13	13.64	13.73	13.74				
5	64QAM	25	0	13.76	13.79	13.75				
Channel										
Frequency (MHz)										
3	QPSK	1	0	14.00	13.98	13.96				
3	QPSK	1	8	13.74	13.78	13.92		15	0	
3	QPSK	1	14	13.65	13.77	13.73				
3	QPSK	8	0	13.84	13.84	13.85				
3	QPSK	8	4	13.73	13.79	13.80		15	0	
3	QPSK	8	7	13.74	13.77	13.81				
3	QPSK	15	0	13.82	13.75	13.66				
3	16QAM	1	0	13.98	13.70	13.75				
3	16QAM	1	8	13.80	13.89	13.96		15	0	
3	16QAM	1	14	13.73	13.91	13.80				
3	16QAM	8	0	13.74	13.64	13.78				
3	16QAM	8	4	13.72	13.69	13.70		15	0	
3	16QAM	8	7	13.66	13.69	13.73				
3	16QAM	15	0	13.71	13.74	13.94				
3	64QAM	1	0	13.97	13.80	13.83				
3	64QAM	1	8	13.67	13.81	13.89		15	0	
3	64QAM	1	14	13.68	13.76	13.70				
3	64QAM	8	0	13.73	13.76	13.75				
3	64QAM	8	4	13.76	13.70	13.73		15	0	
3	64QAM	8	7	13.59	13.77	13.81				
3	64QAM	15	0	13.77	13.72	13.71				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	14.03	13.95	14.03				
1.4	QPSK	1	3	13.73	13.80	13.94		15	0	
1.4	QPSK	1	5	13.71	13.74	13.75				
1.4	QPSK	3	0	13.91	13.86	13.83				
1.4	QPSK	3	1	13.84	13.88	13.83				
1.4	QPSK	3	3	13.70	13.85	13.75		15	0	
1.4	QPSK	6	0	13.85	13.76	13.72				
1.4	16QAM	1	0	13.96	13.74	13.76				
1.4	16QAM	1	3	13.80	13.88	13.92		15	0	
1.4	16QAM	1	5	13.76	13.82	13.86				
1.4	16QAM	3	0	13.67	13.63	13.77				
1.4	16QAM	3	1	13.70	13.63	13.75		15	0	
1.4	16QAM	3	3	13.65	13.69	13.66				
1.4	16QAM	6	0	13.66	13.69	13.72		15	0	
1.4	64QAM	1	0	13.87	13.75	13.75				
1.4	64QAM	1	3	13.72	13.70	13.92				
1.4	64QAM	1	5	13.60	13.75	13.77		15	0	
1.4	64QAM	3	0	13.79	13.69	13.81				
1.4	64QAM	3	1	13.74	13.68	13.71				
1.4	64QAM	3	3	13.63	13.71	13.74		15	0	
1.4	64QAM	6	0	13.79	13.70	13.76				

Band 4_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.</					



Band 7_Ant 0									
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)				20850	21100	21350			
20	QPSK	1	0	14.94	15.04	15.08			
20	QPSK	1	49	14.97	15.00	15.07	16	0	
20	QPSK	1	99	14.86	15.14	15.16			
20	QPSK	50	0	14.94	14.96	15.02			
20	QPSK	50	24	14.97	15.11	15.08	16	0	
20	QPSK	50	50	14.98	15.12	15.13	16	0	
20	QPSK	100	0	14.95	15.06	15.08			
20	16QAM	1	0	14.88	14.97	15.02			
20	16QAM	1	49	14.99	14.93	15.14	16	0	
20	16QAM	1	99	15.03	15.09	15.01			
20	16QAM	50	0	14.84	14.83	14.83			
20	16QAM	50	24	14.84	14.86	14.92	16	0	
20	16QAM	50	50	14.81	14.92	15.03	16	0	
20	16QAM	100	0	14.83	14.85	14.90			
20	64QAM	1	0	14.88	14.84	14.85			
20	64QAM	1	49	14.96	14.80	15.03	16	0	
20	64QAM	1	99	14.79	15.01	15.06			
20	64QAM	50	0	14.86	14.86	14.92			
20	64QAM	50	24	14.88	14.88	14.94	16	0	
20	64QAM	50	50	14.80	14.94	15.06			
20	64QAM	100	0	14.87	14.86	14.93			
Channel				20925	21100	21375			
Frequency (MHz)				20925	21100	21375			
15	QPSK	1	0	14.89	14.96	14.99			
15	QPSK	1	37	14.81	14.90	14.96	16	0	
15	QPSK	1	74	14.90	15.06	15.10			
15	QPSK	36	0	14.88	14.80	14.93			
15	QPSK	36	20	14.85	14.97	14.92	16	0	
15	QPSK	36	39	14.84	15.02	15.03			
15	QPSK	75	0	14.86	14.94	14.95			
15	16QAM	1	0	14.72	14.82	14.87	16	0	
15	16QAM	1	37	14.84	14.82	14.90			
15	16QAM	1	74	14.90	14.98	14.94			
15	16QAM	36	0	14.68	14.69	14.73			
15	16QAM	36	20	14.73	14.70	14.80	16	0	
15	16QAM	36	39	14.72	14.87	14.90			
15	16QAM	75	0	14.71	14.72	14.84			
15	64QAM	1	0	14.75	14.76	14.76			
15	64QAM	1	37	14.87	14.64	14.91	16	0	
15	64QAM	1	74	14.68	14.96	14.96			
15	64QAM	36	0	14.71	14.74	14.76			
15	64QAM	36	20	14.78	14.74	14.85	16	0	
15	64QAM	36	39	14.70	14.86	14.90			
15	64QAM	75	0	14.73	14.83	14.85			
Channel				20800	21100	21400			
Frequency (MHz)				20800	21100	21400			
10	QPSK	1	0	14.78	14.92	15.00			
10	QPSK	1	25	14.90	14.92	15.02	16	0	
10	QPSK	1	49	14.93	15.00	15.04			
10	QPSK	25	0	14.83	14.87	14.92			
10	QPSK	25	12	14.89	15.01	14.94	16	0	
10	QPSK	25	25	14.88	15.01	14.98			
10	QPSK	50	0	14.83	14.90	14.98			
10	16QAM	1	0	14.77	14.91	14.86	16	0	
10	16QAM	1	25	14.82	14.83	15.00	16	0	
10	16QAM	1	49	14.92	14.94	14.89			
10	16QAM	25	0	14.72	14.67	14.71			
10	16QAM	25	12	14.79	14.70	14.78	16	0	
10	16QAM	25	25	14.69	14.87	14.98			
10	16QAM	50	0	14.68	14.70	14.83			
10	64QAM	1	0	14.81	14.75	14.79			
10	64QAM	1	25	14.91	14.71	14.98	16	0	
10	64QAM	1	49	14.85	14.91	14.90			
10	64QAM	25	0	14.80	14.78	14.79			
10	64QAM	25	12	14.75	14.77	14.82	16	0	
10	64QAM	25	25	14.65	14.87	14.93			
10	64QAM	50	0	14.73	14.74	14.86			
Channel				20775	21100	21425			
Frequency (MHz)				20775	21100	21425			
5	QPSK	1	0	14.85	14.99	14.93			
5	QPSK	1	12	14.92	14.84	14.96	16	0	
5	QPSK	1	24	14.90	15.06	15.03			
5	QPSK	12	0	14.81	14.86	14.94			
5	QPSK	12	7	14.86	14.99	15.02	16	0	
5	QPSK	12	13	14.84	15.07	14.97			
5	QPSK	25	0	14.80	14.96	14.97			
5	16QAM	1	0	14.77	14.89	14.88			
5	16QAM	1	12	14.83	14.88	15.02	16	0	
5	16QAM	1	24	14.87	14.97	14.92			
5	16QAM	12	0	14.70	14.69	14.71			
5	16QAM	12	7	14.72	14.81	14.77	16	0	
5	16QAM	12	13	14.72	14.84	14.93			
5	16QAM	25	0	14.68	14.74	14.78			
5	64QAM	1	0	14.73	14.74	14.71	16	0	
5	64QAM	1	12	14.87	14.86	14.90			
5	64QAM	1	24	14.74	14.87	14.92			
5	64QAM	12	0	14.78	14.79	14.87			
5	64QAM	12	7	14.79	14.80	14.80	16	0	
5	64QAM	12	13	14.75	14.81	14.94			
5	64QAM	25	0	14.71	14.73	14.80			

Band 7_Ant 1									
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)				20850	21100	21350			
20	QPSK	1	0	15.64	15.74	15.63			
20	QPSK	1	49	15.79	15.70	15.61	17.5	0	
20	QPSK	1	99	15.89	15.75	15.72			
20	QPSK	50	0	15.88	15.81	15.86			
20	QPSK	50	24	15.84	15.74	15.68	17.5	0	
20	QPSK	50	50	15.81	15.73	15.62			
20	QPSK	100	0	15.85	15.79	15.73			
20	16QAM	1	0	15.52	15.68	15.58			
20	16QAM	1	49	15.77	15.67	15.56	17.5	0	
20	16QAM	1	99	15.97	15.89	15.52			
20	16QAM	50	0	15.69	15.75	15.69			
20	16QAM	50	24	15.82	15.60	15.61	17.5	0	
20	16QAM	50	50	15.79	15.60	15.60			
20	16QAM	100	0	15.77	15.63	15.56			
20	64QAM	1	0	15.55	15.55	15.53			
20	64QAM	1	49	15.64	15.53	15.49	17.5	0	
20	64QAM	1	99	15.78	15.61	15.52			
20	64QAM	50	0	15.75	15.61	15.81			
20	64QAM	50	24	15.67	15.73	15.57	17.5	0	
20	64QAM	50	50	15.61	15.62	15.52			
20	64QAM	100	0	15.71	15.70	15.67			
Channel				20925	21100	21375			
Frequency (MHz)				20925	21100	21375			
15	QPSK	1	0	15.45	15.62	15.58			
15	QPSK	1	37	15.70	15.57	15.60	17.5	0	
15	QPSK	1	74	15.70	15.64	15.69			
15	QPSK	36	0	15.71	15.66	15.73			
15	QPSK	36	20	15.66	15.73	15.54	17.5	0	
15	QPSK	36	39	15.63	15.67	15.43			
15	QPSK	75	0	15.79	15.75	15.57			
15	16QAM	1	0	15.46	15.67	15.48	17.5	0	
15	16QAM	1	37	15.75	15.61	15.37			
15	16QAM	1	74	15.83	15.64	15.40			
15	16QAM	36	0	15.68	15.69	15.66			
15	16QAM	36	20	15.81	15.48	15.43	17.5	0	
15	16QAM	36	39	15.60	15.42	15.44			
15	16QAM	75	0	15.63	15.50	15.50			
15	64QAM	1	0	15.50	15.45	15.49			
15	64QAM	1	37	15.47	15.40	15.47	17.5	0	
15	64QAM	1	74	15.70	15.44	15.48			
15	64QAM	36	0	15.59	15.41	15.79			
15	64QAM	36	20	15.52	15.69	15.47	17.5	0	
15	64QAM	36	39	15.43	15.50	15.47			
15	64QAM								



Band 26_Ant 1									
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)									
15	QPSK	1	0	21.63	21.68	21.64	22.5	0	
15	QPSK	1	37	21.62	21.53	21.60			
15	QPSK	1	74	21.60	21.61	21.63			
15	QPSK	36	0	21.44	21.59	21.51	22.5	0	
15	QPSK	36	20	21.47	21.41	21.48			
15	QPSK	36	39	21.51	21.45	21.48			
15	QPSK	75	0	21.50	21.53	21.52	22.5	0	
15	16QAM	1	0	21.49	21.41	21.49			
15	16QAM	1	37	21.41	21.37	21.41			
15	16QAM	1	74	21.43	21.46	21.32	22	0.5	
15	16QAM	36	0	20.44	20.37	20.53			
15	16QAM	36	20	20.49	20.43	20.58			
15	16QAM	36	39	20.50	20.47	20.58	22	0.5	
15	16QAM	75	0	20.52	20.46	20.54			
15	64QAM	1	0	20.49	20.45	20.52			
15	64QAM	1	37	20.49	20.46	20.61	22	0.5	
15	64QAM	1	74	20.67	20.55	20.57			
15	64QAM	36	0	19.44	19.40	19.56			
15	64QAM	36	20	19.46	19.46	19.60	21	1.5	
15	64QAM	36	39	19.52	19.47	19.62			
15	64QAM	75	0	19.49	19.45	19.53			
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.55	21.37	21.56	22.5	0	
10	QPSK	1	25	21.54	21.48	21.54			
10	QPSK	1	49	21.44	21.45	21.57			
10	QPSK	25	0	21.33	21.31	21.35	22.5	0	
10	QPSK	25	12	21.33	21.34	21.52			
10	QPSK	25	25	21.39	21.33	21.42			
10	QPSK	50	0	21.40	21.30	21.39	22	0.5	
10	16QAM	1	0	21.35	21.32	21.34			
10	16QAM	1	25	21.31	21.28	21.45			
10	16QAM	1	49	21.31	21.35	21.47	22	0.5	
10	16QAM	25	0	20.34	20.23	20.47			
10	16QAM	25	12	20.41	20.38	20.52			
10	16QAM	25	25	20.45	20.34	20.53	22	0.5	
10	16QAM	50	0	20.38	20.41	20.41			
10	64QAM	1	0	20.37	20.32	20.42			
10	64QAM	1	25	20.35	20.36	20.45	22	0.5	
10	64QAM	1	49	20.59	20.46	20.45			
10	64QAM	25	0	19.32	19.34	19.42			
10	64QAM	25	12	19.41	19.36	19.53	21	1.5	
10	64QAM	25	25	19.45	19.36	19.46			
10	64QAM	50	0	19.38	19.30	19.45			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.41	21.35	21.43	22.5	0	
5	QPSK	1	12	21.42	21.34	21.51			
5	QPSK	1	24	21.40	21.37	21.46			
5	QPSK	12	0	21.27	21.14	21.37	22.5	0	
5	QPSK	12	7	21.34	21.28	21.38			
5	QPSK	12	13	21.38	21.27	21.47			
5	QPSK	25	0	21.25	21.24	21.42	22.5	0	
5	16QAM	1	0	21.25	21.25	21.32			
5	16QAM	1	12	21.27	21.13	21.29			
5	16QAM	1	24	21.27	21.29	21.30	22	0.5	
5	16QAM	12	0	20.23	20.19	20.41			
5	16QAM	12	7	20.28	20.22	20.41			
5	16QAM	12	13	20.32	20.26	20.32	22	0.5	
5	16QAM	25	0	20.37	20.31	20.42			
5	64QAM	1	0	20.30	20.31	20.31			
5	64QAM	1	12	20.32	20.28	20.37	22	0.5	
5	64QAM	1	24	20.52	20.36	20.33			
5	64QAM	12	0	19.21	19.21	19.36			
5	64QAM	12	7	19.29	19.24	19.41	21	1.5	
5	64QAM	12	13	19.30	19.27	19.47			
5	64QAM	25	0	19.36	19.31	19.30			
Channel									
Frequency (MHz)									
3	QPSK	1	0	21.37	21.26	21.32	22.5	0	
3	QPSK	1	8	21.33	21.22	21.45			
3	QPSK	1	14	21.35	21.39	21.34			
3	QPSK	8	0	21.21	21.15	21.26	22.5	0	
3	QPSK	8	4	21.12	21.09	21.35			
3	QPSK	8	7	21.02	21.02	21.16			
3	QPSK	15	0	21.26	21.15	21.21	22.5	0	
3	16QAM	1	0	21.20	21.20	21.14			
3	16QAM	1	8	21.16	21.04	21.24			
3	16QAM	1	14	21.22	21.23	21.30	22	0.5	
3	16QAM	8	0	20.14	20.10	20.32			
3	16QAM	8	4	20.25	20.13	20.31			
3	16QAM	8	7	20.16	20.20	20.33	22	0.5	
3	16QAM	15	0	20.23	20.22	20.25			
3	64QAM	1	0	20.23	20.17	20.23			
3	64QAM	1	8	20.21	20.17	20.33	22	0.5	
3	64QAM	1	14	20.39	20.26	20.31			
3	64QAM	8	0	19.14	19.09	19.27			
3	64QAM	8	4	19.21	19.20	19.35	21	1.5	
3	64QAM	8	7	19.24	19.24	19.38			
3	64QAM	15	0	19.24	19.19	19.22			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.21	21.18	21.34	22.5	0	
1.4	QPSK	1	3	21.30	21.18	21.41			
1.4	QPSK	1	5	21.31	21.30	21.30			
1.4	QPSK	3	0	21.12	21.00	21.11	22.5	0	
1.4	QPSK	3	1	21.10	21.02	21.16			
1.4	QPSK	3	3	21.23	21.14	21.26			
1.4	QPSK	6	0	21.13	21.12	21.17	22.5	0	
1.4	16QAM	1	0	21.22	21.12	21.14			
1.4	16QAM	1	3	21.09	21.03	21.20			
1.4	16QAM	1	5	21.13	21.03	21.19	22.5	0	
1.4	16QAM	3	0	21.15	21.03	21.08			
1.4	16QAM	3	1	21.00	20.87	21.08			
1.4	16QAM	3	3	21.02	20.98	21.06	22	0.5	
1.4	16QAM	6	0	20.17	20.06	20.17			
1.4	64QAM	1	0	20.15	20.08	20.16			
1.4	64QAM	1	3	20.12	20.15	20.27	22	0.5	
1.4	64QAM	1	5	20.31	20.10	20.26			
1.4	64QAM	3	0	20.06	20.04	20.10			
1.4	64QAM	3	1	20.01	20.04	20.11	21	1.5	
1.4	64QAM	3	3	20.26	20.00	20.11			
1.4	64QAM	6	0	19.21	19.09	19.13			

Band 66_Ant 0									
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	15.56	15.63	15.18	16.5	0	
20	QPSK	1	49	15.41	15.51	15.29			
20	QPSK	1	99	15.34	15.40	15.24			
20	QPSK	50	0	15.51	15.59	15.41	16.5	0	
20	QPSK	50	24	15.50	15.54	15.35			
20	QPSK	50	50	15.48	15.57	15.38			
20	QPSK	100	0	15.50	15.55	15.36	16.5	0	
20	16QAM	1	0	15.40	15.49	15.45			
20	16QAM	1	49	15.33	15.35	15.14			
20	16QAM	1	99	15.35	15.25	15.18	16.5	0	
20	16QAM	50	0	15.42	15.33	15.31			
20	16QAM	50	24	15.43	15.41	15.20			
20	16QAM	50	50	15.34	15.46	15.33	16.5	0	
20	16QAM	100	0	15.39	15.47	15.24			
20	64QAM	1	0	15.42	15.46	15.48			
20	64QAM	1	49	15.33	15.38	15.14	16.5	0	
20	64QAM	1	99	15.19	15.28	15.13			
20	64QAM	50	0	15.36	15.48	15.34			
20	64QAM	50	24	15.34	15.41	15.20	16.5	0	
20	64QAM	50	50	15.34	15.45	15.21			
20	64QAM	100	0	15.39	15.47	15.26			
Channel									
Frequency (MHz)									
15	QPSK	1	0	15.43	15.50	15.46	16.5	0	
15	QPSK	1	37	15.34	15.40	15.18			
15	QPSK	1	74	15.21	15.31	15.10			
15	QPSK	36	0	15.38	15.49	15.35	16.5	0	
15	QPSK	36	20	15.45	15.38	15.24			
15	QPSK	36	39	15.40	15.12	15.33			
15	QPSK	75	0	15.44	15.47	15.29	16.5	0	
15	16QAM	1	0	15.25	15.37	15.28			
15	16QAM	1	37	15.37	15.28	15.00			
15	16QAM	1	74	15.19	15.12	15.10	16.5	0	
15	16QAM	36	0	15.34	15.37	15.16			
15	16QAM	36	20	15.36	15.35	15.13			
15	16QAM	36	39	15.22	15.31	15.20	16.5	0	
15	16QAM	75	0	15.31	15.35	15.13			
15	64QAM	1	0	15.36	15.41	15.37			
15	64QAM	1	37	15.28	15.24	15.05	16.5	0	
15	64QAM	1	74	15.03	15.21	15.03			
15	64QAM	36	0	15.31					



Band 38_Ant 0

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	17.66	17.31	17.44	18.5	0
20	QPSK	1	49	17.66	17.41	17.50		
20	QPSK	1	99	17.74	17.42	17.47	18.5	0
20	QPSK	50	0	17.70	17.43	17.48		
20	QPSK	50	24	17.63	17.50	17.56	18.5	0
20	QPSK	50	50	17.60	17.47	17.60		
20	QPSK	100	0	17.67	17.51	17.55	18.5	0
20	16QAM	1	0	17.52	17.42	17.47		
20	16QAM	1	49	17.48	17.46	17.41	18.5	0
20	16QAM	1	99	17.52	17.47	17.46		
20	16QAM	50	0	17.55	17.31	17.34	18.5	0
20	16QAM	50	24	17.51	17.40	17.37		
20	16QAM	50	50	17.50	17.32	17.42	18.5	0
20	16QAM	100	0	17.53	17.32	17.28		
20	64QAM	1	0	17.51	17.30	17.30	18.5	0
20	64QAM	1	49	17.44	17.09	17.17		
20	64QAM	1	99	17.26	17.11	17.23	18.5	0
20	64QAM	50	0	17.61	17.30	17.30		
20	64QAM	50	24	17.59	17.30	17.47	18.5	0
20	64QAM	50	50	17.53	17.46	17.39		
20	64QAM	100	0	17.51	17.30	17.30	18.5	0
Channel				37925	38000	38175		
Frequency (MHz)				2977.5	2995	2912.5		
15	QPSK	1	0	17.57	17.25	17.39	18.5	0
15	QPSK	1	37	17.59	17.36	17.34		
15	QPSK	1	74	17.69	17.37	17.31	18.5	0
15	QPSK	36	0	17.64	17.32	17.37		
15	QPSK	36	20	17.50	17.43	17.40	18.5	0
15	QPSK	36	39	17.49	17.34	17.49		
15	QPSK	75	0	17.51	17.36	17.40	18.5	0
15	16QAM	1	0	17.37	17.30	17.31		
15	16QAM	1	37	17.39	17.35	17.27	18.5	0
15	16QAM	1	74	17.36	17.30	17.36		
15	16QAM	36	0	17.50	17.17	17.24	18.5	0
15	16QAM	36	20	17.40	17.27	17.29		
15	16QAM	36	39	17.39	17.24	17.26	18.5	0
15	16QAM	75	0	17.47	17.21	17.21		
15	64QAM	1	0	17.08	16.97	16.85	18.5	0
15	64QAM	1	37	17.36	17.04	17.05		
15	64QAM	1	74	17.33	16.95	17.13	18.5	0
15	64QAM	36	0	17.54	17.15	17.21		
15	64QAM	36	20	17.44	17.19	17.33	18.5	0
15	64QAM	36	39	17.43	17.34	17.25		
15	64QAM	75	0	17.40	17.24	17.15	18.5	0
Channel				37950	38000	38200		
Frequency (MHz)				2977.5	2995	2912.5		
10	QPSK	1	0	17.59	17.15	17.32	18.5	0
10	QPSK	1	25	17.61	17.30	17.42		
10	QPSK	1	49	17.58	17.37	17.37	18.5	0
10	QPSK	25	0	17.61	17.33	17.37		
10	QPSK	25	12	17.56	17.35	17.45	18.5	0
10	QPSK	25	25	17.52	17.38	17.54		
10	QPSK	50	0	17.55	17.37	17.41	18.5	0
10	16QAM	1	0	17.38	17.30	17.32		
10	16QAM	1	25	17.41	17.38	17.28	18.5	0
10	16QAM	1	49	17.47	17.41	17.36		
10	16QAM	25	0	17.46	17.26	17.21	18.5	0
10	16QAM	25	12	17.41	17.25	17.26		
10	16QAM	25	25	17.34	17.16	17.31	18.5	0
10	16QAM	50	0	17.46	17.27	17.15		
10	64QAM	1	0	17.16	16.91	16.93	18.5	0
10	64QAM	1	25	17.38	17.01	17.09		
10	64QAM	1	49	17.18	16.97	17.15	18.5	0
10	64QAM	25	0	17.46	17.23	17.25		
10	64QAM	25	12	17.47	17.22	17.42	18.5	0
10	64QAM	25	25	17.45	17.34	17.26		
10	64QAM	50	0	17.36	17.23	17.19	18.5	0
Channel				37775	38000	38225		
Frequency (MHz)				2977.5	2995	2912.5		
5	QPSK	1	0	17.51	17.24	17.29	18.5	0
5	QPSK	1	12	17.58	17.32	17.44		
5	QPSK	1	24	17.61	17.31	17.38	18.5	0
5	QPSK	12	0	17.65	17.33	17.34		
5	QPSK	12	7	17.51	17.41	17.42	18.5	0
5	QPSK	12	13	17.48	17.41	17.55		
5	QPSK	25	0	17.56	17.36	17.39	18.5	0
5	16QAM	1	0	17.38	17.35	17.42		
5	16QAM	1	12	17.40	17.30	17.28	18.5	0
5	16QAM	1	24	17.39	17.34	17.39		
5	16QAM	12	0	17.47	17.17	17.19	18.5	0
5	16QAM	12	7	17.39	17.34	17.25		
5	16QAM	12	13	17.40	17.17	17.28	18.5	0
5	16QAM	25	0	17.43	17.26	17.15		
5	64QAM	1	0	17.10	16.93	16.86	18.5	0
5	64QAM	1	12	17.35	16.95	17.03		
5	64QAM	1	24	17.16	17.02	17.15	18.5	0
5	64QAM	12	0	17.54	17.14	17.20		
5	64QAM	12	7	17.50	17.25	17.40	18.5	0
5	64QAM	12	13	17.41	17.32	17.23		
5	64QAM	25	0	17.45	17.16	17.17	18.5	0
Channel				39750	40160	40620		
Frequency (MHz)				2501	2547	2593		
5	QPSK	1	0	17.17	17.33	17.17	18.5	0
5	QPSK	1	12	17.28	17.41	17.27		
5	QPSK	1	24	17.33	17.48	17.30	18.5	0
5	QPSK	12	0	17.41	17.48	17.48		
5	QPSK	12	7	17.49	17.55	17.47	18.5	0
5	QPSK	12	13	17.52	17.50	17.47		
5	QPSK	25	0	17.39	17.43	17.42	18.5	0
5	QPSK	25	12	17.47	17.52	17.56		
5	QPSK	50	0	17.42	17.45	17.45	18.5	0
5	16QAM	1	0	17.10	17.24	17.10		
5	16QAM	1	25	17.14	17.22	17.12	18.5	0
5	16QAM	1	49	17.15	17.26	17.21		
5	16QAM	25	0	17.35	17.37	17.42	18.5	0
5	16QAM	25	12	17.27	17.46	17.32		
5	16QAM	25	25	17.40	17.49	17.38	18.5	0
5	16QAM	50	0	17.20	17.26	17.32		
5	64QAM	1	0	17.14	17.24	17.04	18.5	0
5	64QAM	1	25	17.12	17.25	17.16		
5	64QAM	1	49	17.23	17.27	17.34	18.5	0
5	64QAM	25	0	17.33	17.35	17.33		
5	64QAM	25	12	17.32	17.45	17.35	18.5	0
5	64QAM	25	25	17.50	17.48	17.27		
5	64QAM	50	0	17.27	17.31	17.39	18.5	0
Channel				39675	40160	40620		
Frequency (MHz)				2496.5	2545.5	2593		
5	QPSK	1	0	17.17	17.33	17.17	18.5	0
5	QPSK	1	12	17.28	17.41	17.27		
5	QPSK	1	24	17.33	17.48	17.30	18.5	0
5	QPSK	12	0	17.41	17.48	17.48		
5	QPSK	12	7	17.49	17.55	17.47	18.5	0
5	QPSK	12	13	17.52	17.50	17.47		
5	QPSK	25	0	17.39	17.43	17.42	18.5	0
5	QPSK	25	12	17.47	17.52	17.56		
5	QPSK	50	0	17.42	17.45	17.45	18.5	0
5	16QAM	1	0	17.10	17.24	17.10		
5	16QAM	1	25	17.14	17.22	17.12	18.5	0
5	16QAM	1	49	17.15	17.26	17.21		
5	16QAM	25	0	17.35	17.37	17.42	18.5	0
5	16QAM	25	12	17.27	17.46	17.32		
5	16QAM	25	25	17.40	17.49	17.38	18.5	0
5	16QAM	50	0	17.20	17.26	17.32		
5	64QAM	1	0	17.14	17.24	17.04	18.5	0
5	64QAM	1	25	17.12	17.25	17.16		
5	64QAM	1	49	17.23	17.27	17.34	18.5	0
5	64QAM	25	0	17.33	17.35	17.33		
5	64QAM	25	12	17.32	17.45	17.35	18.5	0
5	64QAM	25	25	17.50	17.48	17.27		
5	64QAM	50	0	17.27	17.31	17.39	18.5	0
Channel				39675	40160	40620		
Frequency (MHz)				2496.5	2545.5	2593		
5	QPSK	1	0	17.17	17.33	17.17	18.5	0
5	QPSK	1	12	17.28	17.41	17.27		
5	QPSK	1	24	17.33	17.48	17.30	18.5	0
5	QPSK	12	0	17.41	17.48	17.48		
5</								



n5_Ant 1

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				165800	167300	168800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	22.41	22.40	22.34	23.0	0.0
20	PI/2 BPSK	1	53	22.15	22.29	22.23		
20	PI/2 BPSK	1	104	22.12	22.14	22.01		
20	PI/2 BPSK	50	0	22.24	22.26	22.18	23.0	0.0
20	PI/2 BPSK	50	23	22.35	22.33	22.16	23.0	0.0
20	PI/2 BPSK	50	56	22.21	22.21	22.12	23.0	0.0
20	PI/2 BPSK	100	0	22.34	22.31	22.14		
20	QPSK	1	1	22.33	22.36	22.24		
20	QPSK	1	53	22.21	22.32	22.23	23.0	0.0
20	QPSK	1	104	22.15	22.21	22.17		
20	QPSK	50	0	22.21	22.31	22.26	23.0	0.0
20	QPSK	50	23	22.15	22.23	22.16	23.0	0.0
20	QPSK	50	56	22.15	22.23	22.16	23.0	0.0
20	QPSK	100	0	22.24	22.28	22.23		
20	16QAM	1	1	22.20	22.25	22.09	23.0	0.0
20	64QAM	1	1	20.98	21.12	20.97	21.5	1.5
20	256QAM	1	1	18.67	19.82	18.74	19.5	3.5
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	PI/2 BPSK	1	1	22.26	22.32	22.18	23.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	835.5	844		
10	PI/2 BPSK	1	1	22.33	22.33	22.33	23.0	0.0
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	PI/2 BPSK	1	1	22.34	22.38	22.25	23.0	0.0

n7_Ant 0

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				503000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	15.51	15.41	15.38	16.5	0.0
40	PI/2 BPSK	1	108	15.53	15.49	15.43		
40	PI/2 BPSK	1	214	15.34	15.27	15.20		
40	PI/2 BPSK	108	0	15.36	15.35	15.37	16.5	0.0
40	PI/2 BPSK	108	54	15.48	15.36	15.38	16.5	0.0
40	PI/2 BPSK	108	108	15.38	15.30	15.22	16.5	0.0
40	PI/2 BPSK	216	0	15.45	15.41	15.33		
40	QPSK	1	1	15.24	15.19	15.20		
40	QPSK	1	108	15.33	15.15	15.22	16.5	0.0
40	QPSK	1	214	15.38	15.21	15.33		
40	QPSK	108	0	15.43	15.42	15.23	16.5	0.0
40	QPSK	108	54	15.36	15.33	15.32	16.5	0.0
40	QPSK	108	108	15.39	15.33	15.28	16.5	0.0
40	QPSK	216	0	15.37	15.26	15.24		
40	16QAM	1	1	15.29	15.15	15.11	16.5	0.0
40	64QAM	1	1	15.33	15.23	15.21	16.5	0.0
40	256QAM	1	1	15.26	15.12	15.16	16.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	15.23	15.25	15.38	16.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	15.25	15.28	15.33	16.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	15.28	15.31	15.35	16.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	15.33	15.30	15.41	16.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	15.35	15.22	15.43	16.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	15.36	15.38	15.43	16.5	0.0

n66_Ant 0

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				345000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	16.32	16.46	16.27	17.5	0.0
40	PI/2 BPSK	1	108	15.56	15.61	15.61		
40	PI/2 BPSK	1	214	15.98	15.97	16.06		
40	PI/2 BPSK	108	0	14.87	14.73	14.88	17.5	0.0
40	PI/2 BPSK	108	54	16.96	16.15	16.10	17.5	0.0
40	PI/2 BPSK	108	108	14.84	14.75	14.88	17.5	0.0
40	PI/2 BPSK	216	0	15.58	15.74	15.72		
40	QPSK	1	1	16.36	16.23	16.36		
40	QPSK	1	108	15.66	15.77	15.63	17.5	0.0
40	QPSK	1	214	16.22	16.22	16.17		
40	QPSK	108	0	15.98	15.96	15.96	17.5	0.0
40	QPSK	108	54	15.79	15.63	15.65	17.5	0.0
40	QPSK	108	108	15.90	15.88	15.75	17.5	0.0
40	QPSK	216	0	15.77	15.74	15.79		
40	16QAM	1	1	16.18	16.33	16.29	17.5	0.0
40	64QAM	1	1	16.33	16.43	16.36	17.5	0.0
40	256QAM	1	1	16.19	16.29	16.30	17.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	16.38	16.40	16.41	17.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	16.29	16.31	16.33	17.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI/2 BPSK	1	1	16.22	16.44	16.19	17.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	16.18	16.35	16.27	17.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	16.28	16.41	16.14	17.5	0.0



n66_Ant 1								
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				349000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	14.87	14.95	14.87		
40	PI/2 BPSK	1	108	14.15	14.22	14.22	16.0	0.0
40	PI/2 BPSK	1	214	14.55	14.67	14.62		
40	PI/2 BPSK	108	0	13.33	13.38	13.36	16.0	0.0
40	PI/2 BPSK	108	54	14.30	14.43	14.35	16.0	0.0
40	PI/2 BPSK	108	108	13.23	13.42	13.41	16.0	0.0
40	PI/2 BPSK	216	0	14.40	14.42	14.30		
40	QPSK	1	1	14.82	14.88	14.82		
40	QPSK	1	108	14.17	14.28	14.27	16.0	0.0
40	QPSK	1	214	14.78	14.84	14.83		
40	QPSK	108	0	14.27	14.47	14.45	16.0	0.0
40	QPSK	108	54	14.10	14.30	14.23	16.0	0.0
40	QPSK	108	108	14.27	14.43	14.38	16.0	0.0
40	QPSK	216	0	14.27	14.43	14.39		
40	16QAM	1	1	14.76	14.87	14.81	16.0	0.0
40	64QAM	1	1	14.89	14.94	14.93	16.0	0.0
40	256QAM	1	1	14.75	14.81	14.78	16.0	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	14.82	14.74	14.78	16.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	14.91	14.84	14.91	16.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
15	PI/2 BPSK	1	1	14.78	14.85	14.82	16.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	14.78	14.75	14.80	16.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	14.88	14.76	14.79	16.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	14.90	14.82	14.79	16.0	0.0



n41_Ant 0-PC3&PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	15.43	15.43	15.41	17.0	0.0	
100	PI/2 BPSK	1	137	15.43	15.35	15.31			
100	PI/2 BPSK	1	271	15.36	15.16	15.29			
100	PI/2 BPSK	135	0	15.36	15.18	15.19	17.0	0.0	
100	PI/2 BPSK	135	69	15.45	15.43	15.39	17.0	0.0	
100	PI/2 BPSK	135	138	15.43	15.31	15.32	17.0	0.0	
100	PI/2 BPSK	270	0	15.41	15.21	15.33			
100	QPSK	1	1	15.29	15.29	15.28			
100	QPSK	1	137	15.28	15.12	15.08	17.0	0.0	
100	QPSK	1	271	15.34	15.31	15.32			
100	QPSK	135	0	15.44	15.30	15.29			
100	QPSK	135	69	15.45	15.35	15.36	17.0	0.0	
100	QPSK	135	138	15.45	15.37	15.36			
100	QPSK	270	0	15.34	15.17	15.22			
100	16QAM	1	1	15.33	15.33	15.30	17.0	0.0	
100	64QAM	1	1	15.35	15.19	15.30	17.0	0.0	
100	256QAM	1	1	15.39	15.28	15.28	17.0	0.0	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	15.41	15.43	15.23	17.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	15.41	15.38	15.41	17.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	15.32	15.36	15.33	17.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	15.40	15.23	15.39	17.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	15.41	15.39	15.24	17.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PI/2 BPSK	1	1	15.28	15.23	15.37	17.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	15.47	15.36	15.32	17.0	0.0	

n78_Ant 3(3450-3550)-PC3&PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Middle Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
100	PI/2 BPSK	1	1	13.16	14.0	0.0			
100	PI/2 BPSK	1	137	13.27					
100	PI/2 BPSK	1	271	13.18					
100	PI/2 BPSK	135	0	13.20	14.0	0.0			
100	PI/2 BPSK	135	69	13.25	14.0	0.0			
100	PI/2 BPSK	135	138	13.19	14.0	0.0			
100	PI/2 BPSK	270	0	13.22					
100	QPSK	1	1	13.10					
100	QPSK	1	137	13.16	14.0	0.0			
100	QPSK	1	271	13.21					
100	QPSK	135	0	13.23					
100	QPSK	135	69	13.12	14.0	0.0			
100	QPSK	135	138	13.26					
100	QPSK	270	0	13.23					
100	16QAM	1	1	13.11	14.0	0.0			
100	64QAM	1	1	13.25	14.0	0.0			
100	256QAM	1	1	13.24	14.0	0.0			
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	PI/2 BPSK	1	1	13.14	13.00	12.97	14.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI/2 BPSK	1	1	13.15	13.06	12.97	14.0	0.0	
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3514.98			
70	PI/2 BPSK	1	1	13.13	12.98	13.04	14.0	0.0	
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	PI/2 BPSK	1	1	13.13	12.97	13.01	14.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI/2 BPSK	1	1	13.07	13.06	13.04	14.0	0.0	
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.98			
40	PI/2 BPSK	1	1	13.10	13.00	13.05	14.0	0.0	
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3534.99			
30	PI/2 BPSK	1	1	13.15	13.04	12.94	14.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI/2 BPSK	1	1	13.14	13.06	12.97	14.0	0.0	



DS13(Body-Worn Standalone&Simultaneous&Hotspot)

GSM850-Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	30.97	30.83	30.86	32.70	21.97	21.83	21.86	23.70
GPRS 1 Tx slot	30.99	30.84	30.87	32.70	21.99	21.84	21.87	23.70
GPRS 2 Tx slots	27.78	27.64	27.76	29.70	21.78	21.64	21.76	23.70
GPRS 3 Tx slots	26.86	26.69	26.85	28.00	22.60	22.43	22.59	23.74
GPRS 4 Tx slots	24.30	24.67	24.34	26.70	21.30	21.67	21.34	23.70
EDGE 1 Tx slot	25.46	25.43	25.49	26.00	16.46	16.43	16.49	17.00
EDGE 2 Tx slots	24.00	23.77	23.74	24.50	18.00	17.77	17.74	18.50
EDGE 3 Tx slots	22.84	22.53	22.50	23.50	18.58	18.27	18.24	19.24
EDGE 4 Tx slots	20.80	20.68	20.86	21.50	17.80	17.68	17.86	18.50

Band	WCDMA V-Ant 0			Tune-up Limit (dBm)
	TX Channel	4132	4182	
Rx Channel	4357	4407	4458	
Frequency (MHz)	824.2	836.4	848.8	
3GPP Rel 99 AMR 12.2Kbps	22.07	22.12	22.21	23.00
3GPP Rel 99 RMC 12.2Kbps	22.10	22.09	22.22	23.00
3GPP Rel 6 HSDPA Subtest-1	21.04	21.09	21.12	22.00
3GPP Rel 6 HSDPA Subtest-2	21.08	21.06	21.13	22.00
3GPP Rel 6 HSDPA Subtest-3	20.52	20.61	20.64	21.50
3GPP Rel 6 HSDPA Subtest-4	20.44	20.52	20.62	21.50
3GPP Rel 8 DC-HSDPA Subtest-1	21.02	20.98	21.10	22.00
3GPP Rel 8 DC-HSDPA Subtest-2	21.01	21.09	21.11	22.00
3GPP Rel 8 DC-HSDPA Subtest-3	20.60	20.43	20.62	21.50
3GPP Rel 8 DC-HSDPA Subtest-4	20.49	20.54	20.60	21.50
3GPP Rel 6 HSUPA Subtest-1	21.41	21.34	21.46	22.00
3GPP Rel 6 HSUPA Subtest-2	19.39	19.47	19.55	20.00
3GPP Rel 6 HSUPA Subtest-3	20.49	20.41	20.60	21.00
3GPP Rel 6 HSUPA Subtest-4	19.33	19.31	19.40	20.00
3GPP Rel 6 HSUPA Subtest-5	20.31	20.32	20.44	22.00



DSI3 (Body-WornStandalone)

GSM1900_Ant 0	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)	26.08	26.06	26.12	27.00	17.08	17.06	17.12	18.00
GPRS 1 Tx slot	26.05	26.01	26.07	27.00	17.05	17.01	17.07	18.00
GPRS 2 Tx slot	23.05	22.88	23.06	24.00	17.05	16.88	17.06	18.00
GPRS 3 Tx slots	21.38	21.37	21.05	22.50	17.12	17.11	16.79	18.24
GPRS 4 Tx slots	19.82	19.64	19.55	21.00	16.82	16.64	16.55	18.00
EDGE 1 Tx slot	24.58	24.25	24.67	25.50	15.58	15.25	15.67	16.50
EDGE 2 Tx slots	22.92	22.85	22.98	24.00	16.92	16.85	16.98	18.00
EDGE 3 Tx slots	21.48	21.45	21.62	22.50	17.22	17.19	17.36	18.24
EDGE 4 Tx slots	19.69	19.76	19.88	21.00	16.69	16.76	16.88	18.00

Band	WCDMA III_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 1			Tune-up Limit (dBm)	
	9262	9490	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458				
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6				
3GPP Rel 99	AMR 12.2Kbps	16.44	16.42	16.47	17.50	17.58	17.57	17.53	18.50	22.33	22.36	22.48	23.50
3GPP Rel 99	RMC 12.2Kbps	16.45	16.48	16.51	17.50	17.62	17.74	17.54	18.50	22.34	22.37	22.52	23.50
3GPP Rel 6	HSDPA Subtest-1	15.37	15.32	15.33	16.50	16.49	16.54	16.52	17.50	21.22	21.18	21.19	22.50
3GPP Rel 6	HSDPA Subtest-2	15.40	15.34	15.37	16.50	16.64	16.56	16.55	17.50	21.05	21.16	21.05	22.50
3GPP Rel 6	HSDPA Subtest-3	14.99	14.98	14.81	16.00	15.96	16.01	16.06	17.00	20.60	20.73	20.72	22.00
3GPP Rel 6	HSDPA Subtest-4	14.91	14.98	14.89	16.00	16.21	16.21	16.20	17.00	20.66	20.63	20.68	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	15.32	15.18	15.29	16.50	16.32	16.30	16.39	17.50	21.12	21.04	21.00	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	15.32	15.30	15.28	16.50	16.55	16.44	16.63	17.50	20.94	21.02	20.89	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	14.75	14.88	14.94	16.00	15.78	15.91	15.80	17.00	20.41	20.56	20.44	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	14.74	14.82	14.73	16.00	15.97	16.08	15.99	17.00	20.59	20.58	20.62	22.00
3GPP Rel 6	HSUPA Subtest-1	15.36	15.36	15.45	16.50	15.89	15.79	15.92	17.50	21.28	21.28	21.26	22.50
3GPP Rel 6	HSUPA Subtest-2	13.47	13.32	13.46	14.50	13.75	13.72	13.84	15.50	19.13	19.29	19.24	20.50
3GPP Rel 6	HSUPA Subtest-3	14.42	14.30	14.34	15.50	14.83	14.78	14.88	16.50	20.27	20.15	20.28	21.50
3GPP Rel 6	HSUPA Subtest-4	13.33	13.44	13.33	14.50	13.83	13.80	13.76	15.50	19.09	19.19	19.10	20.50
3GPP Rel 6	HSUPA Subtest-5	15.25	15.31	15.39	16.50	15.72	15.73	15.72	17.50	21.27	21.18	21.22	22.50



Band 2_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq.	Power Middle Ch. F. Freq.	Power High Ch. F. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				1870	1880	1900				
Frequency (MHz)				1870	1880	1900				
20	QPSK	1	0	15.51	15.49	15.31				
20	QPSK	1	49	15.16	15.41	15.20	16.5	0		
20	QPSK	1	99	15.15	15.36	15.01				
20	QPSK	50	0	15.49	15.39	15.48				
20	QPSK	50	24	15.35	15.26	15.44	16.5	0		
20	QPSK	50	50	15.31	15.38	15.41				
20	QPSK	100	0	15.38	15.26	15.28				
20	16QAM	1	0	15.27	15.35	15.39				
20	16QAM	1	49	15.24	15.46	15.33	16.5	0		
20	16QAM	1	99	15.47	15.13	15.13				
20	16QAM	50	0	15.21	15.42	15.09				
20	16QAM	50	24	15.17	15.37	15.15	16.5	0		
20	16QAM	50	50	15.05	15.49	15.14				
20	16QAM	100	0	15.21	15.37	15.25				
20	64QAM	1	0	15.46	15.38	15.38				
20	64QAM	1	49	15.30	15.13	15.09	16.5	0		
20	64QAM	1	99	15.02	15.41	15.02				
20	64QAM	50	0	15.11	15.43	15.31				
20	64QAM	50	24	15.15	15.27	15.20	16.5	0		
20	64QAM	50	50	15.29	15.38	15.19				
20	64QAM	100	0	15.39	15.35	15.23				
Channel				1887.5	1890	1912.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1887.5	1890	1902.5				
15	QPSK	1	0	15.45	15.42	15.22	16.5	0		
15	QPSK	1	37	15.02	15.29	15.10				
15	QPSK	1	74	15.08	15.31	14.94				
15	QPSK	36	0	15.42	15.31	15.34				
15	QPSK	36	20	15.09	15.13	15.37	16.5	0		
15	QPSK	36	39	15.24	15.26	15.27				
15	QPSK	75	0	15.33	15.11	15.17				
15	16QAM	1	0	15.14	15.22	15.27				
15	16QAM	1	37	15.09	15.38	15.19	16.5	0		
15	16QAM	1	74	15.40	15.02	15.02				
15	16QAM	36	0	15.09	15.30	14.96				
15	16QAM	36	20	15.03	15.25	15.09	16.5	0		
15	16QAM	36	39	14.96	15.39	15.07				
15	16QAM	75	0	15.05	15.29	15.14				
15	64QAM	1	0	15.35	15.25	15.28				
15	64QAM	1	37	15.15	14.97	15.04	16.5	0		
15	64QAM	1	74	14.90	15.33	14.96				
15	64QAM	36	0	14.99	15.28	15.25				
15	64QAM	36	20	15.03	15.19	15.06	16.5	0		
15	64QAM	36	39	15.14	15.23	15.03				
15	64QAM	75	0	15.23	15.23	15.11				
Channel				1885	1880	1915	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1885	1880	1905				
10	QPSK	1	0	15.39	15.33	15.16	16.5	0		
10	QPSK	1	25	15.08	15.31	15.09				
10	QPSK	1	49	14.99	15.27	14.93				
10	QPSK	25	0	15.33	15.32	15.33				
10	QPSK	25	12	15.26	15.16	15.31	16.5	0		
10	QPSK	25	25	15.22	15.23	15.31				
10	QPSK	50	0	15.30	15.17	15.17				
10	16QAM	1	0	15.19	15.22	15.25				
10	16QAM	1	25	15.17	15.39	15.22	16.5	0		
10	16QAM	1	49	15.39	15.03	14.98				
10	16QAM	25	0	15.11	15.27	15.00				
10	16QAM	25	12	15.11	15.23	15.07	16.5	0		
10	16QAM	25	25	14.92	15.43	14.98				
10	16QAM	50	0	15.15	15.22	15.12				
10	64QAM	1	0	15.40	15.24	15.33				
10	64QAM	1	25	15.15	15.06	14.95	16.5	0		
10	64QAM	1	49	14.87	15.34	14.87				
10	64QAM	25	0	15.04	15.32	15.17				
10	64QAM	25	12	15.02	15.19	15.14	16.5	0		
10	64QAM	25	25	15.14	15.25	15.04				
10	64QAM	50	0	15.33	15.24	15.10				
Channel				1882.5	1890	1917.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1882.5	1890	1907.5				
5	QPSK	1	0	15.36	15.41	15.25	16.5	0		
5	QPSK	1	12	15.09	15.34	15.13				
5	QPSK	1	24	15.07	15.24	14.94				
5	QPSK	12	0	15.35	15.25	15.41				
5	QPSK	12	7	15.27	15.18	15.37	16.5	0		
5	QPSK	12	13	15.22	15.31	15.36				
5	QPSK	25	0	15.27	15.12	15.19				
5	16QAM	1	0	15.14	15.22	15.28				
5	16QAM	1	12	15.18	15.39	15.27	16.5	0		
5	16QAM	1	24	15.40	14.99	15.06				
5	16QAM	12	0	15.10	15.27	15.01				
5	16QAM	12	7	15.10	15.21	15.08	16.5	0		
5	16QAM	12	13	14.98	15.41	15.07				
5	16QAM	25	0	15.16	15.31	15.17				
5	64QAM	1	0	15.41	15.28	15.23				
5	64QAM	1	12	15.16	15.05	15.01	16.5	0		
5	64QAM	1	24	14.92	15.33	14.90				
5	64QAM	12	0	15.00	15.31	15.16				
5	64QAM	12	7	15.04	15.11	15.07	16.5	0		
5	64QAM	12	13	15.24	15.19	15.11				
5	64QAM	25	0	15.28	15.24	15.16				
Channel				1881.5	1890	1918.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1881.5	1890	1908.5				
3	QPSK	1	0	15.46	15.37	15.18	16.5	0		
3	QPSK	1	8	15.11	15.30	15.12				
3	QPSK	1	14	15.09	15.27	14.96				
3	QPSK	8	0	15.39	15.28	15.42				
3	QPSK	8	4	15.26	15.12	15.28	16.5	0		
3	QPSK	8	7	15.19	15.30	15.25				
3	QPSK	15	0	15.28	15.14	15.22				
3	16QAM	1	0	15.20	15.22	15.24				
3	16QAM	1	8	15.18	15.42	15.23	16.5	0		
3	16QAM	1	14	15.34	14.97	15.00				
3	16QAM	8	0	15.09	15.26	14.96				
3	16QAM	8	4	15.01	15.31	15.03	16.5	0		
3	16QAM	8	7	14.93	15.35	15.03				
3	16QAM	15	0	15.11	15.26	15.19				
3	64QAM	1	0	15.35	15.31	15.28				
3	64QAM	1	8	15.18	14.98	14.95	16.5	0		
3	64QAM	1	14	14.87	15.29	14.95				
3	64QAM	8	0	14.97	15.35	15.20				
3	64QAM	8	4	15.10	15.11	15.05	16.5	0		
3	64QAM	8	7	15.17	15.20	15.08				
3	64QAM	15	0	15.30	15.19	15.07				
Channel				1880	1890	1919	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1880	1890	1909				
1.4	QPSK	1	0	15.39	15.44	15.23	16.5	0		
1.4	QPSK	1	3	15.10	15.25	15.04				
1.4	QPSK	1	5	15.07	15.22	14.96				
1.4	QPSK	3	0	15.42	15.29	15.33	16.5	0		
1.4	QPSK	3	1	15.28	15.10	15.34				
1.4	QPSK	3	3	15.16	15.33	15.36				
1.4	QPSK	6	0	15.27	15.17	15.12	16.5	0		
1.4	16QAM	1	0	15.11	15.20	15.24				
1.4	16QAM	1	3	15.11	15.42	15.21				
1.4	16QAM	1	5	15.31	14.97	14.97	16.5	0		
1.4	16QAM	3	0	15.05	15.35	14.94				
1.4	16QAM	3	1	15.12	15.30	15.00				
1.4	16QAM	3	3	14.89	15.34	15.05				
1.4	16QAM	6	0	15.15	15.29	15.11	16.5	0		
1.4	64QAM	1	0	1						



Band 7_Ant 0									
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	17.27	17.16	17.36			
20	QPSK	1	49	17.34	17.32	17.44	18.5	0	
20	QPSK	1	99	17.22	17.36	17.65			
20	QPSK	50	0	17.50	17.48	17.54			
20	QPSK	50	24	17.47	17.50	17.51	18.5	0	
20	QPSK	50	50	17.26	17.52	17.63			
20	QPSK	100	0	17.47	17.48	17.55			
20	16QAM	1	0	17.19	17.47	17.22			
20	16QAM	1	49	17.21	17.10	17.21	18.5	0	
20	16QAM	1	99	17.24	17.03	17.08			
20	16QAM	50	0	17.11	17.28	17.23			
20	16QAM	50	24	17.25	17.21	17.25	18.5	0	
20	16QAM	50	50	17.18	17.25	17.35			
20	16QAM	100	0	17.23	17.26	17.35			
20	64QAM	1	0	17.30	16.91	16.93			
20	64QAM	1	49	17.02	17.03	17.26	18.5	0	
20	64QAM	1	99	17.11	17.17	17.44			
20	64QAM	50	0	17.25	17.25	17.23			
20	64QAM	50	24	17.19	17.30	17.34	18.5	0	
20	64QAM	50	50	17.22	17.24	17.43			
20	64QAM	100	0	17.30	17.25	17.38			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	17.13	17.04	17.25			
15	QPSK	1	37	17.19	17.16	17.38	18.5	0	
15	QPSK	1	74	17.14	17.23	17.52			
15	QPSK	36	0	17.41	17.37	17.39			
15	QPSK	36	20	17.32	17.42	17.43	18.5	0	
15	QPSK	36	39	17.22	17.41	17.54			
15	QPSK	75	0	17.36	17.37	17.49			
15	16QAM	1	0	17.10	17.31	17.06			
15	16QAM	1	37	17.10	16.95	17.07	18.5	0	
15	16QAM	1	74	17.17	16.96	16.93			
15	16QAM	36	0	16.97	17.12	17.14			
15	16QAM	36	20	17.10	17.12	17.14	18.5	0	
15	16QAM	36	39	17.07	17.10	17.26			
15	16QAM	75	0	17.10	17.13	17.29			
15	64QAM	1	0	17.15	16.86	16.82			
15	64QAM	1	37	16.97	16.93	17.14	18.5	0	
15	64QAM	1	74	17.06	17.08	17.32			
15	64QAM	36	0	17.12	17.16	17.11			
15	64QAM	36	20	17.13	17.25	17.43	18.5	0	
15	64QAM	36	39	17.16	17.18	17.34			
15	64QAM	75	0	17.20	17.18	17.30			
Channel				20900	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	17.16	17.06	17.29			
10	QPSK	1	25	17.25	17.18	17.35	18.5	0	
10	QPSK	1	49	17.07	17.26	17.60			
10	QPSK	25	0	17.43	17.32	17.42			
10	QPSK	25	12	17.34	17.43	17.42	18.5	0	
10	QPSK	25	25	17.22	17.44	17.50			
10	QPSK	50	0	17.40	17.38	17.49			
10	16QAM	1	0	17.04	17.38	17.17			
10	16QAM	1	25	17.05	16.99	17.16	18.5	0	
10	16QAM	1	49	17.15	16.87	16.95			
10	16QAM	25	0	17.06	17.14	17.16			
10	16QAM	25	12	17.16	17.11	17.14	18.5	0	
10	16QAM	25	25	17.09	17.09	17.19			
10	16QAM	50	0	17.17	17.12	17.24			
10	64QAM	1	0	17.20	16.77	16.85			
10	64QAM	1	25	16.86	16.93	17.14	18.5	0	
10	64QAM	1	49	16.95	17.12	17.37			
10	64QAM	25	0	17.19	17.13	17.12			
10	64QAM	25	12	17.03	17.21	17.18	18.5	0	
10	64QAM	25	25	17.14	17.10	17.33			
10	64QAM	50	0	17.18	17.17	17.27			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	17.22	17.10	17.21			
5	QPSK	1	12	17.24	17.26	17.31	18.5	0	
5	QPSK	1	24	17.16	17.28	17.60			
5	QPSK	12	0	17.40	17.37	17.49			
5	QPSK	12	7	17.34	17.39	17.40	18.5	0	
5	QPSK	12	13	17.28	17.37	17.53			
5	QPSK	25	0	17.38	17.42	17.45			
5	16QAM	1	0	17.10	17.35	17.15			
5	16QAM	1	12	17.05	17.02	17.11	18.5	0	
5	16QAM	1	24	17.10	16.87	17.01			
5	16QAM	12	0	17.01	17.20	17.15			
5	16QAM	12	7	17.21	17.10	17.16	18.5	0	
5	16QAM	12	13	17.08	17.10	17.21			
5	16QAM	25	0	17.15	17.14	17.22			
5	64QAM	1	0	17.14	16.85	16.88			
5	64QAM	1	12	16.97	16.89	17.20	18.5	0	
5	64QAM	1	24	16.97	17.07	17.39			
5	64QAM	12	0	17.10	17.16	17.07			
5	64QAM	12	7	17.07	17.10	17.23	18.5	0	
5	64QAM	12	13	17.09	17.18	17.38			
5	64QAM	25	0	17.22	17.19	17.27			

Band 66_Ant 0									
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				13272	13322	13372			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	16.54	16.93	16.79			
20	QPSK	1	49	16.66	16.80	16.54	18	0	
20	QPSK	1	99	16.70	16.82	16.51			
20	QPSK	50	0	16.88	16.92	16.71			
20	QPSK	50	24	16.84	16.91	16.68	18	0	
20	QPSK	50	50	16.71	16.91	16.63			
20	QPSK	100	0	16.81	16.82	16.69			
20	16QAM	1	0	16.83	16.48	16.54			
20	16QAM	1	49	16.44	16.53	16.42	18	0	
20	16QAM	1	99	16.40	16.80	16.82			
20	16QAM	50	0	16.61	16.86	16.55			
20	16QAM	50	24	16.72	16.76	16.57	18	0	
20	16QAM	50	50	16.77	16.76	16.67			
20	16QAM	100	0	16.79	16.81	16.61			
20	64QAM	1	0	16.33	16.78	16.78			
20	64QAM	1	49	16.50	16.73	16.72	18	0	
20	64QAM	1	99	16.71	16.40	16.83			
20	64QAM	50	0	16.63	16.78	16.74			
20	64QAM	50	24	16.83	16.82	16.94	18	0	
20	64QAM	50	50	16.70	16.77	16.74			
20	64QAM	100	0	16.72	16.81	16.60			
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	16.61	16.84	16.70			
15	QPSK	1	37	16.54	16.72	16.48	18	0	
15	QPSK	1	74	16.57	16.72	16.38			
15	QPSK	36	0	16.78	16.79	16.61			
15	QPSK	36	20	16.76	16.72	16.59	18	0	
15	QPSK	36	39	16.63	16.86	16.51			
15	QPSK	75	0	16.72	16.72	16.57			
15	16QAM	1	0	16.73	16.39	16.39			
15	16QAM	1	37	16.37	16.48	16.34	18	0	
15	16QAM	1	74	16.33	16.64	16.50			
15	16QAM	36	0	16.52	16.74	16.42			
15	16QAM	36	20	16.58	16.68	16.45	18	0	
15	16QAM	36	39	16.62	16.65	16.51			
15	16QAM	75	0	16.74	16.68	16.45			
15	64QAM	1	0	16.22	16.62	16.69			
15	64QAM	1	37	16.36	16.65	16.65	18	0	
15	64QAM	1	74	16.64	16.28	16.75			
15	64QAM	36	0	16.52	16.69	16.58			
15	64QAM	36	20	16.77	16.71	16.53	18	0	
15	64QAM	36	39	16.59	16				



Band 7_Ant 1									
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	19.08	19.06	18.97	20.5	0	
20	QPSK	1	49	19.11	19.04	18.99			
20	QPSK	1	99	19.24	19.07	19.01			
20	QPSK	50	0	19.18	19.05	18.99			
20	QPSK	50	24	19.12	19.07	18.99			
20	QPSK	50	50	19.15	19.14	19.05			
20	QPSK	100	0	19.12	19.06	18.90			
20	16QAM	1	0	19.04	18.93	18.83			
20	16QAM	1	49	19.09	18.93	18.84			
20	16QAM	1	99	19.13	18.93	18.79			
20	16QAM	50	0	18.45	18.30	18.14			
20	16QAM	50	24	18.50	18.34	18.14			
20	16QAM	50	50	18.37	18.28	18.18			
20	16QAM	100	0	18.48	18.33	18.12			
20	64QAM	1	0	18.48	18.35	18.16			
20	64QAM	1	49	18.50	18.34	18.23			
20	64QAM	1	99	18.46	18.29	18.17			
20	64QAM	50	0	17.50	17.32	17.16			
20	64QAM	50	24	17.51	17.35	17.17			
20	64QAM	50	50	17.39	17.34	17.18			
20	64QAM	100	0	17.46	17.33	17.13			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	19.01	18.99	18.88	20.5	0	
15	QPSK	1	37	19.05	18.90	18.83			
15	QPSK	1	74	19.14	18.92	18.87			
15	QPSK	36	0	18.94	18.98	18.85			
15	QPSK	36	20	19.07	18.98	18.73			
15	QPSK	36	39	19.09	18.99	19.00			
15	QPSK	75	0	19.03	18.94	18.85			
15	16QAM	1	0	18.92	18.82	18.75			
15	16QAM	1	37	18.96	18.85	18.74			
15	16QAM	1	74	19.05	18.84	18.63			
15	16QAM	36	0	18.29	18.24	18.02			
15	16QAM	36	20	18.45	18.27	18.09			
15	16QAM	36	39	18.28	18.20	18.07			
15	16QAM	75	0	18.43	18.24	18.05			
15	64QAM	1	0	18.38	18.24	18.11			
15	64QAM	1	37	18.36	18.21	18.12			
15	64QAM	1	74	18.41	18.16	18.11			
15	64QAM	36	0	17.42	17.18	17.07			
15	64QAM	36	20	17.39	17.28	17.11			
15	64QAM	36	39	17.34	17.25	17.08			
15	64QAM	75	0	17.31	17.26	16.99			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	18.99	18.99	18.88	20.5	0	
10	QPSK	1	25	18.97	18.92	18.93			
10	QPSK	1	49	19.08	18.92	18.79			
10	QPSK	25	0	18.98	18.94	18.89			
10	QPSK	25	12	19.03	18.99	18.74			
10	QPSK	25	25	19.10	19.08	18.90			
10	QPSK	50	0	19.03	18.91	18.80			
10	16QAM	1	0	18.89	18.79	18.67			
10	16QAM	1	25	19.03	18.79	18.79			
10	16QAM	1	49	18.98	18.85	18.67			
10	16QAM	25	0	18.31	18.16	18.03			
10	16QAM	25	12	18.43	18.25	18.02			
10	16QAM	25	25	18.23	18.23	18.07			
10	16QAM	50	0	18.42	18.28	17.98			
10	64QAM	1	0	18.38	18.19	18.10			
10	64QAM	1	25	18.45	18.25	18.15			
10	64QAM	1	49	18.33	18.20	18.03			
10	64QAM	25	0	17.36	17.26	17.01			
10	64QAM	25	12	17.35	17.24	17.03			
10	64QAM	25	25	17.27	17.18	17.04			
10	64QAM	50	0	17.33	17.21	17.01			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	19.03	18.98	18.81	20.5	0	
5	QPSK	1	12	19.05	18.97	18.88			
5	QPSK	1	24	19.19	18.97	18.90			
5	QPSK	12	0	18.98	18.92	18.94			
5	QPSK	12	7	19.07	18.93	18.79			
5	QPSK	12	13	19.00	19.03	18.98			
5	QPSK	25	0	19.06	18.92	18.84			
5	16QAM	1	0	18.88	18.81	18.77			
5	16QAM	1	12	18.97	18.77	18.72			
5	16QAM	1	24	19.03	18.80	18.68			
5	16QAM	12	0	18.38	18.22	18.01			
5	16QAM	12	7	18.35	18.25	18.07			
5	16QAM	12	13	18.23	18.16	18.02			
5	16QAM	25	0	18.36	18.21	18.04			
5	64QAM	1	0	18.39	18.30	18.04			
5	64QAM	1	12	18.40	18.29	18.09			
5	64QAM	1	24	18.40	18.13	18.07			
5	64QAM	12	0	17.45	17.25	17.00			
5	64QAM	12	7	17.42	17.29	17.12			
5	64QAM	12	13	17.23	17.26	17.12			
5	64QAM	25	0	17.35	17.17	17.04			

Band 66_Ant 1									
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)				1723	1745	1767			
20	QPSK	1	0	16.04	16.28	16.25	17	0	
20	QPSK	1	49	15.86	15.98	15.84			
20	QPSK	1	99	15.94	16.09	15.88			
20	QPSK	50	0	15.85	16.15	16.14			
20	QPSK	50	24	15.78	16.11	15.96			
20	QPSK	50	50	15.84	16.14	15.88			
20	QPSK	100	0	15.80	16.11	15.95			
20	16QAM	1	0	15.77	16.14	16.16			
20	16QAM	1	49	15.79	15.89	15.75			
20	16QAM	1	99	15.86	16.03	15.81			
20	16QAM	50	0	15.65	16.03	16.09			
20	16QAM	50	24	15.68	16.01	15.93			
20	16QAM	50	50	15.71	16.06	15.86			
20	16QAM	100	0	15.68	16.04	15.93			
20	64QAM	1	0	15.72	16.08	16.07			
20	64QAM	1	49	15.62	15.96	15.86			
20	64QAM	1	99	15.89	16.10	15.95			
20	64QAM	50	0	15.59	15.96	16.04			
20	64QAM	50	24	15.58	15.95	15.88			
20	64QAM	50	50	15.66	16.01	15.82			
20	64QAM	100	0	15.60	15.96	15.86			
Channel				132047	132322	132697			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	15.98	16.16	16.12	17	0	
15	QPSK	1	37	15.69	15.80	15.75			
15	QPSK	1	74	15.89	16.01	15.77			
15	QPSK	36	0	15.73	16.14	16.10			
15	QPSK	36	20	15.77	16.07	15.95			
15	QPSK	36	39	15.73	16.08	15.79			
15	QPSK	75	0	15.71	15.98	15.83			
15	16QAM	1	0	15.67	15.97	16.07			
15	16QAM	1	37	15.65	15.87	15.87			
15	16QAM	1	74	15.74	15.97	15.83			
15	16QAM	36	0	15.62	15.80	15.99			
15	16QAM	36	20	15.63	15.81	15.74			
15	16QAM	36	39	15.69	15.88	15.78			
15	16QAM	75	0	15.50	15.99	15.83			
15	64QAM	1	0	15.64	15.95	15.94			
15	64QAM	1	37	15.55	15.84	15.71			
15	64QAM	1	74	15.87	16.07	15.80			
15	64QAM	36	0	15.45	15.87	16.07			
15	64QAM	36	20	15.45	15.82	15.71			
15	64QAM	36	39	15.45	15.84	15.78			
15	64QAM	75	0	15.48	15.76	15.78			
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			</



Band 38_Ant 0									
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	19.03	18.80	18.85			
20	QPSK	1	49	18.95	18.74	18.95	20	0	
20	QPSK	1	99	19.12	18.85	18.96			
20	QPSK	50	0	19.05	18.91	18.88			
20	QPSK	50	24	19.09	18.89	18.95			
20	QPSK	50	50	19.08	18.92	19.04	20	0	
20	QPSK	100	0	19.00	18.96	18.99			
20	16QAM	1	0	18.91	18.74	18.70			
20	16QAM	1	49	18.85	18.60	18.88	20	0	
20	16QAM	1	99	18.97	18.79	18.84			
20	16QAM	50	0	18.99	18.83	18.88			
20	16QAM	50	24	19.00	18.83	18.83			
20	16QAM	50	50	19.03	18.77	18.89	20	0	
20	16QAM	100	0	18.95	18.85	18.85			
20	8QAM	1	0	18.92	18.66	18.78			
20	8QAM	1	49	18.85	18.66	18.85	20	0	
20	8QAM	1	99	18.99	18.80	18.88			
20	8QAM	50	0	18.97	18.85	18.78			
20	8QAM	50	24	19.01	18.73	18.88	20	0	
20	8QAM	50	50	19.04	18.84	18.98			
20	8QAM	100	0	18.92	18.83	18.86			
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.99	18.74	18.99			
15	QPSK	1	37	18.90	18.65	18.80	20	0	
15	QPSK	1	74	18.97	18.72	18.80			
15	QPSK	36	0	18.89	18.78	18.78			
15	QPSK	36	39	18.92	18.80	18.91	20	0	
15	QPSK	75	0	18.95	18.81	18.90			
15	16QAM	1	0	18.75	18.65	18.59			
15	16QAM	1	37	18.80	18.45	18.72	20	0	
15	16QAM	1	74	18.85	18.72	18.78			
15	16QAM	36	0	18.78	18.76	18.65			
15	16QAM	36	20	18.84	18.78	18.71	20	0	
15	16QAM	36	39	18.87	18.81	18.84			
15	16QAM	75	0	18.90	18.79	18.71			
15	8QAM	1	0	18.82	18.53	18.65			
15	8QAM	1	37	18.72	18.57	18.80	20	0	
15	8QAM	1	74	18.88	18.67	18.81			
15	8QAM	36	0	18.85	18.76	18.68			
15	8QAM	36	20	18.87	18.59	18.81	20	0	
15	8QAM	36	39	18.82	18.69	18.73			
15	8QAM	75	0	18.78	18.72	18.72			
Channel									
Frequency (MHz)									
10	QPSK	1	0	18.97	18.75	18.75			
10	QPSK	1	25	18.92	18.68	18.85	20	0	
10	QPSK	1	49	18.96	18.76	18.86			
10	QPSK	25	0	18.98	18.78	18.73			
10	QPSK	25	12	18.96	18.75	18.80	20	0	
10	QPSK	25	25	19.00	18.80	18.98			
10	QPSK	50	0	18.91	18.88	18.92			
10	16QAM	1	0	18.79	18.65	18.68			
10	16QAM	1	25	18.75	18.54	18.82	20	0	
10	16QAM	1	49	18.84	18.68	18.71			
10	16QAM	25	0	18.84	18.76	18.73			
10	16QAM	25	12	18.85	18.71	18.74	20	0	
10	16QAM	50	0	18.85	18.71	18.69			
10	8QAM	1	0	18.79	18.51	18.64			
10	8QAM	1	25	18.71	18.51	18.69	20	0	
10	8QAM	1	49	18.88	18.73	18.81			
10	8QAM	25	0	18.91	18.74	18.64			
10	8QAM	25	12	18.93	18.59	18.83	20	0	
10	8QAM	25	25	18.92	18.75	18.82			
10	8QAM	50	0	18.78	18.77	18.78			
Channel									
Frequency (MHz)									
5	QPSK	1	0	18.99	18.69	18.70			
5	QPSK	1	12	18.87	18.58	18.81	20	0	
5	QPSK	1	24	18.96	18.74	18.90			
5	QPSK	12	0	18.95	18.86	18.74			
5	QPSK	12	7	18.93	18.84	18.88	20	0	
5	QPSK	12	13	18.99	18.83	18.91			
5	QPSK	25	0	18.97	18.84	18.94			
5	16QAM	1	0	18.75	18.63	18.55			
5	16QAM	1	12	18.69	18.65	18.81	20	0	
5	16QAM	1	24	18.84	18.71	18.73			
5	16QAM	12	0	18.79	18.70	18.66			
5	16QAM	12	7	18.90	18.73	18.71	20	0	
5	16QAM	12	13	18.96	18.81	18.84			
5	16QAM	25	0	18.85	18.72	18.72			
5	8QAM	1	0	18.81	18.58	18.63			
5	8QAM	1	12	18.69	18.56	18.71	20	0	
5	8QAM	1	24	18.97	18.76	18.77			
5	8QAM	12	0	18.86	18.74	18.62			
5	8QAM	12	7	18.85	18.63	18.80	20	0	
5	8QAM	12	13	18.78	18.77	18.83			
5	8QAM	25	0	18.80	18.69	18.74			

Band 41_Ant 0 (2.6G Band)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.85	18.78	18.85	18.78	18.96		
20	QPSK	1	49	18.74	18.80	18.89	18.79	18.92	20	0
20	QPSK	1	99	18.94	18.71	18.92	18.98	19.14		
20	QPSK	50	0	19.04	18.99	18.94	18.90	19.07		
20	QPSK	50	24	19.09	19.05	19.05	18.98	19.13		
20	QPSK	50	50	19.10	19.05	19.15	18.99	19.14	20	0
20	QPSK	100	0	19.01	18.96	18.97	18.95	19.06		
20	16QAM	1	0	18.91	18.83	18.88	18.87	19.12		
20	16QAM	1	49	18.98	18.84	18.97	18.96	18.99	20	0
20	16QAM	1	99	18.96	18.97	19.06	19.08	19.15		
20	16QAM	50	0	18.92	18.96	18.93	18.99	19.02		
20	16QAM	50	24	19.02	18.98	19.14	18.99	19.13		
20	16QAM	50	50	18.95	18.97	19.12	18.92	19.12	20	0
20	16QAM	100	0	19.08	19.02	19.08	18.98	19.12		
20	8QAM	1	0	18.72	18.63	18.77	18.67	18.93		
20	8QAM	1	49	18.92	18.63	18.79	18.99	18.92	20	0
20	8QAM	1	99	18.87	18.64	18.76	18.73	18.82		
20	8QAM	50	0	19.01	19.02	18.93	18.95	19.17		
20	8QAM	50	24	19.13	18.96	19.13	18.97	19.07	20	0
20	8QAM	50	50	18.96	18.96	19.13	19.00	19.09		
20	8QAM	100	0	19.10	19.07	18.98	19.01	19.11		
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.99	18.71	18.99	18.99	19.09		
15	QPSK	1	37	18.95	18.73	18.84	18.68	18.84	20	0
15	QPSK	1	74	18.75	18.58	18.80	18.87	19.06		
15	QPSK	36	0	18.99	18.88	18.82	18.77	18.93		
15	QPSK	36	39	18.99	18.88	18.88	18.82	18.98	20	0
15	QPSK	36	39	18.93	18.88	18.88	18.92	18.96		
15	QPSK	75	0	18.86	18.78	18.96	18.83	19.01		
15	16QAM	1	0	18.84	18.98	18.83	18.81	19.00		
15	16QAM	1	37	18.91	18.77	18.87	18.94	18.98	20	0
15	16QAM	1	74	18.83	18.89	18.98	18.84	19.08		
15	16QAM	36	0	18.86	19.00	18.81	18.93	19.09		
15	16QAM	36	20	18.88	18.87	18.99	18.93	19.01	20	0
15	16QAM	36	39	18.95	18.95	18.97	18.94	19.09		
15	16QAM	75	0	18.99	18.98	19.00	18.90	19.03		
15	8QAM	1	0	18.66	18.53	18.69	18.51	18.87		
15	8QAM	1	37	18.54	18.56	18.58	18.48	18.58	20	0
15	8QAM	1	74	18.61	18.58	18.69	18.65	18.76		
15	8QAM	36	0	18.85	18.90	18.90	18.92	19.07		
15	8QAM	36	20	19.07	18.87	19.08	18.87	19.01	20	0
15	8QAM	36	39	18.86	18.88	18.90	18.86	18.99		
15	8QAM	75	0	18.95	18.86	18.87	18.96	18.96		
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.81	18.57	18.68	18.62	18.74		
10	QPSK	1	25	18.67	18.58	18.74	18.59	18.80	20	0
10	QPSK	1	49	18.86	18.51	18.72	18.64	18.85		
10	QPSK	25	0	18.82	18.75	18.73	18.71	18.92		
10	QPSK	25	12	18.94	18.84	18.92	18.82	18.89	20	0
10	QPSK	25	25	18.75	18.76	18.87	18.75	18.78		
10	QPSK	50	0	18.89	18.76	18.90	18.70	18.82		
10	16QAM	1	0	18.72	18.78	18.88	18.63	18.94		
10	16QAM	1	25	18.84	18.58	18.78	18.79	18.81	20	0
10	16QAM	1	49	18.74	18.73	18.92	18.92	18.92		
10	16QAM	25	0	18.70	18.69	18.76	18.65	18.94		
10	16QAM	25	12	18.83	18.84	18.91	18.82	18.92	20	0
10	16QAM	25	25	18.74	18.76	18.92	18.69	18.91		
10	16QAM	50	0	18.89	18.82	18.92	18.81	18.91		
10	8QAM	1	0	18.53	18.47	18.61	18.48	18.78		
10	8QAM	1	25	18.42	18.42	18.56	18.41	18.49	20	0
10	8QAM	1	49	18.49	18.46	18.64	18.49	18.68		
10	8QAM	25	0	18.84	18.83	18.73	18.74	18.98		
10	8QAM	25	12	18.90	18.70	18.99	18.74	18.83	20	0



n7_Ant 0									
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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	16.58	16.56	16.41	17.5	0.0	
40	PI/2 BPSK	1	108	16.68	16.58	16.56			
40	PI/2 BPSK	1	214	16.62	16.51	16.50			
40	PI/2 BPSK	108	0	16.40	16.36	16.36	17.5	0.0	
40	PI/2 BPSK	108	54	16.62	16.45	16.45	17.5	0.0	
40	PI/2 BPSK	108	108	16.53	16.40	16.37	17.5	0.0	
40	PI/2 BPSK	216	0	16.58	16.43	16.57			
40	QPSK	1	1	16.63	16.47	16.61			
40	QPSK	1	108	16.57	16.47	16.46	17.5	0.0	
40	QPSK	1	214	16.57	16.54	16.47			
40	QPSK	108	0	16.64	16.54	16.50			
40	QPSK	108	54	16.63	16.54	16.55	17.5	0.0	
40	QPSK	108	108	16.56	16.55	16.37	17.5	0.0	
40	QPSK	216	0	16.64	16.55	16.53			
40	16QAM	1	1	16.61	16.49	16.41	17.5	0.0	
40	64QAM	1	1	16.63	16.58	16.51	17.5	0.0	
40	256QAM	1	1	16.55	16.48	16.53	17.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516	2535	2555			
30	PI/2 BPSK	1	1	16.41	16.56	16.24	17.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	PI/2 BPSK	1	1	16.48	16.47	16.41	17.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	16.41	16.52	16.38	17.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI/2 BPSK	1	1	16.38	16.50	16.43	17.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI/2 BPSK	1	1	16.51	16.39	16.41	17.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI/2 BPSK	1	1	16.62	16.49	16.53	17.5	0.0	

n66_Ant 0									
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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	17.31	17.45	17.38	18.5	0.0	
40	PI/2 BPSK	1	108	16.85	16.60	16.65			
40	PI/2 BPSK	1	214	17.00	17.16	16.97			
40	PI/2 BPSK	108	0	15.81	15.70	15.68	18.5	0.0	
40	PI/2 BPSK	108	54	16.90	16.93	16.75	18.5	0.0	
40	PI/2 BPSK	108	108	15.82	15.72	15.85	18.5	0.0	
40	PI/2 BPSK	216	0	16.76	16.92	16.76			
40	QPSK	1	1	17.26	17.33	17.35			
40	QPSK	1	108	16.72	16.63	16.76	18.5	0.0	
40	QPSK	1	214	17.34	17.32	17.31			
40	QPSK	108	0	16.79	16.86	16.83			
40	QPSK	108	54	16.70	16.66	16.60	18.5	0.0	
40	QPSK	108	108	16.73	16.86	16.75	18.5	0.0	
40	QPSK	216	0	16.82	16.81	16.81			
40	16QAM	1	1	17.33	17.36	17.17	18.5	0.0	
40	64QAM	1	1	17.44	17.39	17.42	18.5	0.0	
40	256QAM	1	1	17.14	17.27	17.18	18.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	PI/2 BPSK	1	1	17.23	17.34	17.24	18.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	PI/2 BPSK	1	1	17.18	17.43	17.23	18.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
15	PI/2 BPSK	1	1	17.30	17.40	17.21	18.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	PI/2 BPSK	1	1	17.32	14.40	17.28	18.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	PI/2 BPSK	1	1	17.34	17.29	17.35	18.5	0.0	



n66_Ant 1								
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				345000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	15.81	15.95	15.81		
40	PI/2 BPSK	1	108	15.07	15.22	15.10	17.0	0.0
40	PI/2 BPSK	1	214	15.56	15.67	15.49		
40	PI/2 BPSK	108	0	14.31	14.38	14.31	17.0	0.0
40	PI/2 BPSK	108	54	15.41	15.43	15.27	17.0	0.0
40	PI/2 BPSK	108	108	14.36	14.42	14.22		
40	PI/2 BPSK	216	0	15.39	15.42	15.22	17.0	0.0
40	QPSK	1	1	15.88	15.88	15.73		
40	QPSK	1	108	15.17	15.28	15.16	17.0	0.0
40	QPSK	1	214	15.78	15.84	15.66		
40	QPSK	108	0	15.31	15.47	15.47	17.0	0.0
40	QPSK	108	54	15.21	15.30	15.18	17.0	0.0
40	QPSK	108	108	15.42	15.43	15.39	17.0	0.0
40	QPSK	216	0	15.25	15.43	15.43		
40	16QAM	1	1	15.87	15.87	15.76	17.0	0.0
40	64QAM	1	1	15.93	15.94	15.82	17.0	0.0
40	256QAM	1	1	15.67	15.81	15.72	17.0	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765	Tune-up limit (dBm)	MPR (dB)
30	PI/2 BPSK	1	1	15.64	15.76	15.81	17.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770	Tune-up limit (dBm)	MPR (dB)
20	PI/2 BPSK	1	1	15.80	15.94	15.76	17.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)	MPR (dB)
15	PI/2 BPSK	1	1	15.70	15.75	15.79	17.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)	MPR (dB)
10	PI/2 BPSK	1	1	15.78	15.82	15.69	17.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)	MPR (dB)
5	PI/2 BPSK	1	1	15.81	15.88	15.72	17.0	0.0



n41_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	16.97	16.93	16.78	18.5	0.0	
100	PI/2 BPSK	1	137	16.56	16.73	16.59			
100	PI/2 BPSK	1	271	16.56	16.74	16.66			
100	PI/2 BPSK	135	0	16.80	16.78	16.62	18.5	0.0	
100	PI/2 BPSK	135	69	16.90	16.89	16.86	18.5	0.0	
100	PI/2 BPSK	135	138	16.79	16.86	16.85	18.5	0.0	
100	PI/2 BPSK	270	0	16.88	16.87	16.72			
100	QPSK	1	1	16.71	16.87	16.74			
100	QPSK	1	137	16.81	16.89	16.85	18.5	0.0	
100	QPSK	1	271	16.63	16.76	16.62			
100	QPSK	135	0	16.58	16.78	16.64			
100	QPSK	135	69	16.63	16.75	16.70	18.5	0.0	
100	QPSK	135	138	16.62	16.74	16.63			
100	QPSK	270	0	16.61	16.75	16.59			
100	16QAM	1	1	16.64	16.78	16.66	18.5	0.0	
100	64QAM	1	1	16.79	16.86	16.71	18.5	0.0	
100	256QAM	1	1	16.74	16.85	16.76	18.5	0.0	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	16.75	16.90	16.70	18.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	16.85	16.82	16.71	18.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	16.79	16.89	16.73	18.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	16.81	16.80	16.64	18.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	16.73	16.82	16.75	18.5	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PI/2 BPSK	1	1	16.87	16.88	16.72	18.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	16.73	16.90	16.59	18.5	0.0	

n78_Ant 3(3450-3550)									
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				633000	633334	633666			
Frequency (MHz)				3495	3500.01	3504.99			
100	PI/2 BPSK	1	1	14.19			15.0	0.0	
100	PI/2 BPSK	1	137	14.30					
100	PI/2 BPSK	1	271	14.21					
100	PI/2 BPSK	135	0	14.23			15.0	0.0	
100	PI/2 BPSK	135	69	14.28			15.0	0.0	
100	PI/2 BPSK	135	138	14.22			15.0	0.0	
100	PI/2 BPSK	270	0	14.25					
100	QPSK	1	1	14.13					
100	QPSK	1	137	14.19			15.0	0.0	
100	QPSK	1	271	14.24					
100	QPSK	135	0	14.26					
100	QPSK	135	69	14.15			15.0	0.0	
100	QPSK	135	138	14.29					
100	QPSK	270	0	14.26					
100	16QAM	1	1	14.14			15.0	0.0	
100	64QAM	1	1	14.28			15.0	0.0	
100	256QAM	1	1	14.27			15.0	0.0	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	PI/2 BPSK	1	1	14.17	14.03	14.00	15.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI/2 BPSK	1	1	14.18	14.09	14.00	15.0	0.0	
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3514.98			
70	PI/2 BPSK	1	1	14.16	14.01	14.07	15.0	0.0	
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	PI/2 BPSK	1	1	14.16	14.00	14.04	15.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI/2 BPSK	1	1	14.10	14.09	14.07	15.0	0.0	
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.98			
40	PI/2 BPSK	1	1	14.13	14.03	14.08	15.0	0.0	
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3534.99			
30	PI/2 BPSK	1	1	14.18	14.07	13.97	15.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI/2 BPSK	1	1	14.17	14.09	14.00	15.0	0.0	



n41_Ant 0 HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	16.97	16.93	16.78	18.5	0.0	
100	PI/2 BPSK	1	137	16.56	16.73	16.59			
100	PI/2 BPSK	1	271	16.56	16.74	16.66			
100	PI/2 BPSK	135	0	16.80	16.78	16.62	18.5	0.0	
100	PI/2 BPSK	135	69	16.90	16.89	16.86			
100	PI/2 BPSK	135	138	16.79	16.86	16.85			
100	PI/2 BPSK	270	0	16.88	16.87	16.72	18.5	0.0	
100	QPSK	1	1	16.71	16.87	16.74			
100	QPSK	1	137	16.81	16.89	16.85			
100	QPSK	1	271	16.63	16.76	16.62	18.5	0.0	
100	QPSK	135	0	16.58	16.78	16.64			
100	QPSK	135	69	16.63	16.75	16.70			
100	QPSK	135	138	16.62	16.74	16.63	18.5	0.0	
100	QPSK	270	0	16.61	16.75	16.59			
100	18QAM	1	1	16.64	16.78	16.66			
100	64QAM	1	1	16.79	16.86	16.71	18.5	0.0	
100	256QAM	1	1	16.74	16.85	16.76	18.5	0.0	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	16.75	16.90	16.70	18.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	16.85	16.82	16.71	18.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	16.79	16.89	16.73	18.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	16.81	16.80	16.64	18.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	16.73	16.82	16.75	18.5	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PI/2 BPSK	1	1	16.87	16.88	16.72	18.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	16.73	16.90	16.59	18.5	0.0	

n78_Ant 3(3450-3550)_HPUE									
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				633000	633334	633666			
Frequency (MHz)				3495	3500.01	3504.99			
100	PI/2 BPSK	1	1	14.19			15.0	0.0	
100	PI/2 BPSK	1	137	14.30					
100	PI/2 BPSK	1	271	14.21					
100	PI/2 BPSK	135	0	14.23			15.0	0.0	
100	PI/2 BPSK	135	69	14.28					
100	PI/2 BPSK	135	138	14.22					
100	PI/2 BPSK	270	0	14.25			15.0	0.0	
100	QPSK	1	1	14.13					
100	QPSK	1	137	14.19					
100	QPSK	1	271	14.24			15.0	0.0	
100	QPSK	135	0	14.26					
100	QPSK	135	69	14.15					
100	QPSK	135	138	14.29			15.0	0.0	
100	QPSK	270	0	14.26					
100	16QAM	1	1	14.14					
100	64QAM	1	1	14.28			15.0	0.0	
100	256QAM	1	1	14.27			15.0	0.0	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	PI/2 BPSK	1	1	14.17	14.03	14.00	15.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI/2 BPSK	1	1	14.18	14.09	14.00	15.0	0.0	
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3514.98			
70	PI/2 BPSK	1	1	14.16	14.01	14.07	15.0	0.0	
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	PI/2 BPSK	1	1	14.16	14.00	14.04	15.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI/2 BPSK	1	1	14.10	14.09	14.07	15.0	0.0	
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.98			
40	PI/2 BPSK	1	1	14.13	14.03	14.08	15.0	0.0	
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3534.99			
30	PI/2 BPSK	1	1	14.18	14.07	13.97	15.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI/2 BPSK	1	1	14.17	14.09	14.00	15.0	0.0	



DSI3(Body-Worn Simultaneous)

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	25.56	25.51	25.54	26.00	16.56	16.51	16.54	17.00
GPRS 1 Tx slot	25.54	25.48	25.53	26.00	16.54	16.48	16.53	17.00
GPRS 2 Tx slots	22.12	22.03	22.18	23.00	16.12	16.03	16.18	17.00
GPRS 3 Tx slots	20.36	20.32	20.04	21.50	16.10	16.06	15.78	17.24
GPRS 4 Tx slots	19.65	19.77	19.79	20.00	16.65	16.77	16.79	17.00
EDGE 1 Tx slot	24.58	24.25	24.67	25.50	15.58	15.25	15.67	16.50
EDGE 2 Tx slots	22.14	22.35	21.85	23.00	16.14	16.35	15.85	17.00
EDGE 3 Tx slots	19.98	19.95	20.12	21.50	15.72	15.69	15.86	17.24
EDGE 4 Tx slots	19.14	19.26	19.33	20.00	16.14	16.26	16.33	17.00

Band	TX Channel	WCDMA_II_Ant 0			Tune-up Limit (dBm)	WCDMA_IV_Ant 0			Tune-up Limit (dBm)	WCDMA_V_Ant 1			Tune-up Limit (dBm)
		Rx Channel	9662	9600		9938	1312	1413		1513	4132	4182	
Frequency (MHz)	1852.4	1880	1907.6		1537	1638	1738		4357	4407	4458		
3GPP Rel 99	AMR 12.2Kbps	15.21	15.24	15.32	16.50	16.02	16.04	15.94	17.00	21.35	21.38	21.50	22.50
3GPP Rel 99	RMC 12.2Kbps	15.26	15.31	15.44	16.50	16.11	16.12	15.78	17.00	21.37	21.40	21.52	22.50
3GPP Rel 6	HSRPA Subtest-1	14.20	14.35	14.19	15.50	14.95	15.13	14.99	16.00	20.35	20.40	20.56	22.00
3GPP Rel 6	HSRPA Subtest-2	14.21	14.37	14.19	15.50	14.87	14.68	14.99	16.00	20.31	20.39	20.55	22.00
3GPP Rel 6	HSRPA Subtest-3	13.77	13.83	13.82	15.00	14.44	14.68	14.41	15.50	19.84	19.87	20.04	21.50
3GPP Rel 6	HSRPA Subtest-4	13.73	13.84	13.80	15.00	14.38	14.51	14.44	15.50	19.82	19.89	20.00	21.50
3GPP Rel 8	DC-HSRPA Subtest-1	14.00	14.11	14.12	15.50	14.78	14.76	14.66	16.00	20.32	20.24	20.20	22.00
3GPP Rel 8	DC-HSRPA Subtest-2	14.08	14.07	14.05	15.50	14.89	14.81	14.81	16.00	20.14	20.22	20.09	22.00
3GPP Rel 8	DC-HSRPA Subtest-3	13.69	13.72	13.71	15.00	14.14	14.22	14.13	15.50	19.61	19.76	19.64	21.50
3GPP Rel 8	DC-HSRPA Subtest-4	13.66	13.61	13.60	15.00	14.26	14.42	14.32	15.50	19.79	19.78	19.82	21.50
3GPP Rel 6	HSUPA Subtest-1	14.22	14.18	14.17	15.50	14.13	14.20	14.09	16.00	20.33	20.32	20.45	22.00
3GPP Rel 6	HSUPA Subtest-2	12.25	12.21	12.26	13.50	12.01	12.02	12.14	14.00	18.34	18.37	18.48	20.00
3GPP Rel 6	HSUPA Subtest-3	13.32	13.24	13.30	14.50	13.24	13.19	13.20	15.00	19.33	19.36	19.51	21.00
3GPP Rel 6	HSUPA Subtest-4	12.13	12.17	12.20	13.50	12.09	12.21	12.07	14.00	18.33	18.35	18.51	20.00
3GPP Rel 6	HSUPA Subtest-5	14.24	14.20	14.27	15.50	14.14	14.17	14.09	16.00	20.30	20.36	20.46	22.00



Band 2_Ant 0												
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	14.11	14.07	13.89	15	0				
20	QPSK	1	49	13.83	13.91	14.01						
20	QPSK	1	99	13.76	13.90	13.87						
20	QPSK	50	0	14.02	13.95	13.97						
20	QPSK	50	24	13.69	13.74	13.80	15	0				
20	QPSK	50	50	13.81	13.92	13.86						
20	QPSK	100	0	13.91	13.88	13.80						
20	16QAM	1	0	14.07	13.84	13.88						
20	16QAM	1	49	13.95	13.94	14.02	15	0				
20	16QAM	1	99	13.84	13.97	13.93						
20	16QAM	50	0	13.80	13.76	13.86						
20	16QAM	50	24	13.81	13.74	13.85	15	0				
20	16QAM	50	50	13.72	13.70	13.82						
20	16QAM	100	0	13.80	13.81	13.86						
20	64QAM	1	0	14.03	13.86	13.88						
20	64QAM	1	49	13.79	13.86	14.04	15	0				
20	64QAM	1	99	13.76	13.84	13.85						
20	64QAM	50	0	13.86	13.82	13.87						
20	64QAM	50	24	13.85	13.80	13.85	15	0				
20	64QAM	50	50	13.73	13.82	13.87						
20	64QAM	100	0	13.85	13.86	13.83						
Channel												
Frequency (MHz)												
15	QPSK	1	0	1897.5	1890	1902.5	Tune-up limit (dBm)	MPR (dB)				
15	QPSK	1	37	13.76	13.78	13.94	15	0				
15	QPSK	1	74	13.63	13.83	13.80						
15	QPSK	36	0	13.91	13.81	13.84						
15	QPSK	36	30	13.84	13.81	13.91	15	0				
15	QPSK	36	30	13.65	13.87	13.76						
15	QPSK	75	0	13.77	13.76	13.70						
15	16QAM	1	0	13.91	13.79	13.75						
15	16QAM	1	37	13.84	13.79	13.86	15	0				
15	16QAM	1	74	13.76	13.92	13.82						
15	16QAM	36	0	13.69	13.71	13.74						
15	16QAM	36	30	13.84	13.75	13.76	15	0				
15	16QAM	36	30	13.62	13.71	13.71						
15	16QAM	75	0	13.71	13.67	13.75						
15	64QAM	1	0	13.94	13.77	13.72						
15	64QAM	1	37	13.67	13.73	13.93	15	0				
15	64QAM	1	74	13.71	13.79	13.70						
15	64QAM	36	0	13.73	13.76	13.76						
15	64QAM	36	30	13.84	13.71	13.70	15	0				
15	64QAM	36	30	13.61	13.67	13.73						
15	64QAM	75	0	13.73	13.76	13.72						
Channel												
Frequency (MHz)												
10	QPSK	1	0	1855	1880	1905	Tune-up limit (dBm)	MPR (dB)				
10	QPSK	1	25	13.70	13.83	13.86	15	0				
10	QPSK	1	49	13.65	13.82	13.72						
10	QPSK	25	0	13.86	13.83	13.91						
10	QPSK	25	12	13.81	13.79	13.77	15	0				
10	QPSK	25	25	13.68	13.79	13.75						
10	QPSK	50	0	13.81	13.75	13.71						
10	16QAM	1	0	13.94	13.74	13.73						
10	16QAM	1	25	13.90	13.89	13.86	15	0				
10	16QAM	1	49	13.79	13.86	13.87						
10	16QAM	25	0	13.84	13.81	13.81						
10	16QAM	25	12	13.65	13.69	13.79	15	0				
10	16QAM	25	25	13.62	13.63	13.70						
10	16QAM	50	0	13.73	13.75	13.72						
10	64QAM	1	0	13.96	13.71	13.74						
10	64QAM	1	25	13.69	13.74	13.95	15	0				
10	64QAM	1	49	13.65	13.74	13.80						
10	64QAM	25	0	13.79	13.75	13.71						
10	64QAM	25	12	13.81	13.71	13.72	15	0				
10	64QAM	25	25	13.62	13.76	13.72						
10	64QAM	50	0	13.78	13.77	13.67						
Channel												
Frequency (MHz)												
5	QPSK	1	0	14.05	14.02	13.94	Tune-up limit (dBm)	MPR (dB)				
5	QPSK	1	12	13.73	13.80	13.95	15	0				
5	QPSK	1	24	13.66	13.85	13.79						
5	QPSK	12	0	13.91	13.83	13.92						
5	QPSK	12	7	13.77	13.83	13.88	15	0				
5	QPSK	12	13	13.68	13.76	13.78						
5	QPSK	25	0	13.81	13.80	13.69						
5	16QAM	1	0	13.94	13.76	13.77						
5	16QAM	1	12	13.88	13.88	13.89	15	0				
5	16QAM	1	24	13.74	13.89	13.84						
5	16QAM	12	0	13.72	13.69	13.72						
5	16QAM	12	7	13.71	13.66	13.70	15	0				
5	16QAM	12	13	13.67	13.69	13.69						
5	16QAM	25	0	13.72	13.73	13.81						
5	64QAM	1	0	13.87	13.81	13.76						
5	64QAM	1	12	13.63	13.73	13.93	15	0				
5	64QAM	1	24	13.74	13.88	13.75						
5	64QAM	12	0	13.73	13.74	13.75						
5	64QAM	12	7	13.70	13.64	13.74	15	0				
5	64QAM	12	13	13.64	13.73	13.74						
5	64QAM	25	0	13.76	13.79	13.75						
Channel												
Frequency (MHz)												
3	QPSK	1	0	14.00	13.98	13.96	Tune-up limit (dBm)	MPR (dB)				
3	QPSK	1	8	13.74	13.77	13.92	15	0				
3	QPSK	1	14	13.65	13.77	13.73						
3	QPSK	8	0	13.94	13.84	13.85						
3	QPSK	8	4	13.73	13.79	13.80	15	0				
3	QPSK	8	7	13.74	13.77	13.81						
3	QPSK	15	0	13.82	13.75	13.66						
3	16QAM	1	0	13.98	13.70	13.75						
3	16QAM	1	8	13.80	13.89	13.96	15	0				
3	16QAM	1	14	13.73	13.91	13.80						
3	16QAM	8	0	13.74	13.64	13.76						
3	16QAM	8	4	13.72	13.69	13.70	15	0				
3	16QAM	8	7	13.66	13.69	13.73						
3	16QAM	15	0	13.71	13.74	13.74						
3	64QAM	1	0	13.97	13.80	13.83						
3	64QAM	1	8	13.67	13.81	13.89	15	0				
3	64QAM	1	14	13.68	13.76	13.75						
3	64QAM	8	0	13.73	13.76	13.75						
3	64QAM	8	4	13.76	13.70	13.73	15	0				
3	64QAM	8	7	13.59	13.77	13.81						
3	64QAM	15	0	13.77	13.72	13.71						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	14.03	13.95	14.03	Tune-up limit (dBm)	MPR (dB)				
1.4	QPSK	1	3	13.73	13.80	13.94	15	0				
1.4	QPSK	1	5	13.70	13.74	13.75						
1.4	QPSK	3	0	13.91	13.86	13.85						
1.4	QPSK	3	1	13.84	13.88	13.83						
1.4	QPSK	3	3	13.70	13.85	13.75	15	0				
1.4	QPSK	6	0	13.85	13.76	13.72						
1.4	16QAM	1	0	13.96	13.74	13.76						
1.4	16QAM	1	3	13.80	13.88	13.92						
1.4	16QAM	1	5	13.76	13.76	13.75	15	0				
1.4	16QAM	3	0	13.67	13.63	13.77						
1.4	16QAM	3	1	13.70	13.63	13.75						
1.4	16QAM	3	3	13.65	13.69	13.66	15	0				
1.4	16QAM	6	0	13.66	13.69	13.72						
1.4	64QAM	1	0	13.87	13.75	13.75						
1.4	64QAM	1	3	13.72	13.70	13.92	15	0				
1.4	64QAM	1	5	13.60	13.77	13.75						
1.4	64QAM	3	0	13.79	13.69	13.81						
1.4	64QAM	3	1	13.74	13.68	13.71						
1.4	64QAM	3	3	13.63	13.71	13.74	15	0				
1.4	64QAM	6	0	13.79	13.70	13.76						

Band 4_Ant 0												
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	15.46	15.68	15.59						
20	QPSK	1										



Band 7_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low		Power Middle		Power High		Tune-up limit (dBm)	MPRR (dB)
				Ch. / Freq	Ch. / Freq	Ch. / Freq	Ch. / Freq				
Channel				20650	21100	21350					
Frequency (MHz)				2510	2535	2560					
20	QPSK	1	0	14.94	15.04	15.08					
20	QPSK	1	49	14.97	15.00	15.07					
20	QPSK	1	99	14.86	15.14	15.16					
20	QPSK	50	0	14.84	14.96	15.02					
20	QPSK	50	24	14.97	15.11	15.06					
20	QPSK	50	50	14.96	15.12	15.03					
20	QPSK	100	0	14.95	15.06	15.05					
20	16QAM	1	0	14.88	14.97	15.02					
20	16QAM	1	49	14.96	14.93	15.14					
20	16QAM	1	99	15.03	15.09	15.01					
20	16QAM	50	0	14.84	14.83	14.83					
20	16QAM	50	24	14.84	14.86	14.92					
20	16QAM	50	50	14.81	14.92	15.03					
20	16QAM	100	0	14.83	14.85	14.90					
20	64QAM	1	0	14.88	14.84	14.85					
20	64QAM	1	49	14.96	14.80	15.03					
20	64QAM	1	99	14.79	15.01	15.06					
20	64QAM	50	0	14.86	14.86	14.92					
20	64QAM	50	24	14.86	14.88	14.94					
20	64QAM	50	50	14.90	14.94	15.06					
20	64QAM	100	0	14.87	14.88	14.93					
Channel				20825	21100	21375					
Frequency (MHz)				2507.5	2535	2562.5					
15	QPSK	1	0	14.89	14.96	14.99					
15	QPSK	1	37	14.81	14.90	14.96					
15	QPSK	1	74	14.90	15.06	15.10					
15	QPSK	36	0	14.88	14.90	14.93					
15	QPSK	36	20	14.73	14.70	14.83					
15	QPSK	36	39	14.84	15.02	15.03					
15	QPSK	75	0	14.86	14.94	14.95					
15	16QAM	1	0	14.72	14.82	14.87					
15	16QAM	1	37	14.84	14.82	14.99					
15	16QAM	1	74	14.90	14.96	14.94					
15	16QAM	36	0	14.68	14.69	14.73					
15	16QAM	36	20	14.73	14.70	14.83					
15	16QAM	36	39	14.72	14.87	14.90					
15	16QAM	75	0	14.71	14.72	14.84					
15	64QAM	1	0	14.75	14.76	14.76					
15	64QAM	1	37	14.87	14.64	14.91					
15	64QAM	1	74	14.68	14.96	14.96					
15	64QAM	36	0	14.71	14.74	14.76					
15	64QAM	36	20	14.74	14.74	14.85					
15	64QAM	36	39	14.70	14.88	14.90					
15	64QAM	75	0	14.73	14.83	14.85					
Channel				20980	21100	21400					
Frequency (MHz)				2505	2535	2565					
10	QPSK	1	0	14.78	14.92	15.00					
10	QPSK	1	25	14.90	14.92	15.02					
10	QPSK	1	49	14.93	15.00	15.04					
10	QPSK	25	0	14.83	14.87	14.92					
10	QPSK	25	12	14.89	15.01	15.04					
10	QPSK	25	25	14.88	15.01	14.98					
10	QPSK	50	0	14.83	14.99	14.98					
10	16QAM	1	0	14.77	14.91	14.86					
10	16QAM	1	25	14.92	14.83	15.00					
10	16QAM	1	49	14.92	14.94	14.89					
10	16QAM	25	0	14.72	14.67	14.71					
10	16QAM	25	12	14.70	14.70	14.73					
10	16QAM	25	25	14.69	14.87	14.98					
10	16QAM	50	0	14.68	14.70	14.83					
10	64QAM	1	0	14.81	14.75	14.79					
10	64QAM	1	25	14.91	14.71	14.98					
10	64QAM	1	49	14.65	14.91	14.90					
10	64QAM	25	0	14.90	14.78	14.79					
10	64QAM	25	12	14.75	14.77	14.82					
10	64QAM	25	25	14.65	14.87	14.93					
10	64QAM	50	0	14.73	14.74	14.86					
Channel				20775	21100	21425					
Frequency (MHz)				2502.5	2535	2567.5					
5	QPSK	1	0	14.85	14.98	14.93					
5	QPSK	1	12	14.92	14.84	14.96					
5	QPSK	1	24	14.90	15.06	15.03					
5	QPSK	12	0	14.81	14.86	14.94					
5	QPSK	12	7	14.86	14.99	15.02					
5	QPSK	12	13	14.84	15.07	14.97					
5	QPSK	25	0	14.80	14.98	14.97					
5	16QAM	1	0	14.77	14.89	14.88					
5	16QAM	1	12	14.83	14.86	15.02					
5	16QAM	1	24	14.87	14.97	14.92					
5	16QAM	12	0	14.70	14.69	14.71					
5	16QAM	12	7	14.72	14.81	14.77					
5	16QAM	12	13	14.72	14.84	14.93					
5	16QAM	25	0	14.68	14.74	14.78					
5	64QAM	1	0	14.73	14.74	14.71					
5	64QAM	1	12	14.87	14.68	14.90					
5	64QAM	1	24	14.74	14.87	14.92					
5	64QAM	12	0	14.75	14.75	14.87					
5	64QAM	12	7	14.75	14.80	14.80					
5	64QAM	12	13	14.75	14.81	14.94					
5	64QAM	25	0	14.71	14.73	14.80					

Band 12_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low		Power Middle		Power High		Tune-up limit (dBm)	MPRR (dB)
				Ch. / Freq	Ch. / Freq	Ch. / Freq	Ch. / Freq				
Channel				23050	23050	23150					
Frequency (MHz)				704	707.5	711					
10	QPSK	1	0	21.77	21.76	21.76					
10	QPSK	1	25	21.56	21.54	21.46					
10	QPSK	1	49	21.59	21.50	21.48					
10	QPSK	25	0	21.29	21.27	21.15					
10	QPSK	25	12	21.19	21.26	21.22					
10	QPSK	25	25	21.18	21.26	21.22					
10	QPSK	50	0	21.29	21.26	21.15					
10	16QAM	1	0	21.36	21.28	21.27					
10	16QAM	1	25	21.22	21.23	21.16					
10	16QAM	1	49	21.20	21.20	21.14					
10	16QAM	25	0	20.43	20.44	20.43					
10	16QAM	25	12	20.53	20.46	20.46					
10	16QAM	25	25	20.52	20.49	20.43					
10	16QAM	50	0	20.52	20.46	20.37					
10	64QAM	1	0	20.63	20.56	20.59					
10	64QAM	1	25	20.63	20.58	20.36					
10	64QAM	1	49	20.61	20.63	20.59					
10	64QAM	25	0	19.46	19.47	19.41					
10	64QAM	25	12	19.55	19.50	19.46					
10	64QAM	25	25	19.56	19.51	19.48					
10	64QAM	50	0	19.50	19.43	19.37					
Channel				23035	23095	23165					
Frequency (MHz)				701.5	707.5	713.5					
5	QPSK	1	0	21.53	21.52	21.48					
5	QPSK	1	12	21.50	21.33	21.29					
5	QPSK	1	24	21.46	21.45	21.43					
5	QPSK	12	0	21.30	21.23	21.11					
5	QPSK	12	7	21.30	21.38	21.26					
5	QPSK	12	13	21.46	21.23	21.33					
5	QPSK	25	0	21.49	21.24	21.14					
5	16QAM	1	0	21.26	21.16	21.07					
5	16QAM	1	12	21.21	21.22	21.04					
5	16QAM	1	24	21.07	21.00	21.41					
5	16QAM	12	0	20.13	20.32	20.05					
5	16QAM	12	7	20.41	20.49	20.28					
5	16QAM	12	13	20.38	20.38	20.30					
5	16QAM	25	0	20.45	20.21	20.22					
5	64QAM	1	0	20.56	20.34	20.46					
5	64QAM	1	12	20.43	20.51	20.23					
5	64QAM	1	24	20.40	20.43	20.49					
5	64QAM	12	0	19.28	19.29	19.28					
5	64QAM	12	7	19.40	19.45	19.28					
5	64QAM	12	13	19.35	19.32	19.29					
5	64QAM	25	0	19.25	19.32	19.34					
Channel				23025	23095	23165					
Frequency (MHz)				700.5	707.5	714.5					
3	QPSK	1	0	21.33	21.31	21.23					
3	QPSK	1	8	21.13	21.05	21.40					
3	QPSK	1	14	21.32	21.30	21.19					
3	QPSK	8	0	21.18	21.35	21.12					
3	QPSK	8	4	21.32	21.32	21.18					
3	QPSK	8	7	21.19	21.15	21.09					
3	QPSK	15	0	21.00	21.23	21.09					
3	16QAM	1	0	21.02	21.01	21.11					
3	16QAM	1	8	21.07	21.06	21.41					
3	16QAM	1	14	21.00	21.01	21.32					
3	16QAM	8	0	20.15	20.08	20.21					
3	16QAM	8	4	20.38	2						



Band 26_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPRR (dB)		
Channel				13272	13272	13272				
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	21.63	21.68	21.64				
15	QPSK	1	37	21.62	21.53	21.60	22.5	0		
15	QPSK	1	74	21.60	21.61	21.63				
15	QPSK	36	0	21.44	21.59	21.51				
15	QPSK	36	20	21.47	21.41	21.45	22.5	0		
15	QPSK	36	39	21.51	21.45	21.48				
15	QPSK	75	0	21.50	21.53	21.52				
15	16QAM	1	0	21.49	21.41	21.49				
15	16QAM	1	37	21.41	21.37	21.51	22.5	0		
15	16QAM	1	74	21.43	21.46	21.52				
15	16QAM	36	0	20.44	20.37	20.53				
15	16QAM	36	20	20.49	20.43	20.58	22	0.5		
15	16QAM	36	39	20.50	20.47	20.58				
15	16QAM	75	0	20.52	20.46	20.54				
15	64QAM	1	0	20.49	20.45	20.52				
15	64QAM	1	37	20.49	20.46	20.61	22	0.5		
15	64QAM	1	74	20.67	20.55	20.57				
15	64QAM	36	0	19.44	19.40	19.56				
15	64QAM	36	20	19.46	19.46	19.60	21	1.5		
15	64QAM	36	39	19.52	19.47	19.62				
15	64QAM	75	0	19.49	19.45	19.53				
Channel				26740	26866	26990	Tune-up limit (dBm)	MPRR (dB)		
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	21.55	21.37	21.56				
10	QPSK	1	25	21.54	21.48	21.54	22.5	0		
10	QPSK	1	49	21.44	21.45	21.57				
10	QPSK	25	0	21.33	21.31	21.35				
10	QPSK	25	12	21.33	21.34	21.52	22.5	0		
10	QPSK	25	25	21.39	21.33	21.42				
10	QPSK	50	0	21.40	21.30	21.39				
10	16QAM	1	0	21.35	21.32	21.34				
10	16QAM	1	25	21.31	21.28	21.45	22.5	0		
10	16QAM	1	49	21.31	21.35	21.47				
10	16QAM	25	0	20.34	20.23	20.47				
10	16QAM	25	12	20.41	20.38	20.53	22	0.5		
10	16QAM	25	25	20.45	20.34	20.53				
10	16QAM	50	0	20.38	20.41	20.41				
10	64QAM	1	0	20.37	20.32	20.42				
10	64QAM	1	25	20.35	20.36	20.45	22	0.5		
10	64QAM	1	49	20.59	20.46	20.45				
10	64QAM	25	0	19.32	19.34	19.42				
10	64QAM	25	12	19.34	19.36	19.53	21	1.5		
10	64QAM	25	25	19.45	19.36	19.46				
10	64QAM	50	0	19.38	19.30	19.45				
Channel				26716	26866	27016	Tune-up limit (dBm)	MPRR (dB)		
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	21.41	21.35	21.43				
5	QPSK	1	12	21.42	21.34	21.51	22.5	0		
5	QPSK	1	24	21.40	21.37	21.46				
5	QPSK	12	0	21.27	21.14	21.37				
5	QPSK	12	7	21.34	21.28	21.38	22.5	0		
5	QPSK	12	13	21.38	21.27	21.47				
5	QPSK	25	0	21.23	21.24	21.32				
5	16QAM	1	0	21.25	21.25	21.32				
5	16QAM	1	12	21.27	21.13	21.29	22.5	0		
5	16QAM	1	24	21.27	21.29	21.30				
5	16QAM	12	0	20.25	20.19	20.41				
5	16QAM	12	7	20.28	20.22	20.41	22	0.5		
5	16QAM	12	13	20.32	20.28	20.32				
5	16QAM	25	0	20.37	20.31	20.42				
5	64QAM	1	0	20.30	20.31	20.31				
5	64QAM	1	12	20.32	20.28	20.37	22	0.5		
5	64QAM	1	24	20.52	20.36	20.39				
5	64QAM	12	0	19.21	19.21	19.36				
5	64QAM	12	7	19.29	19.24	19.41	21	1.5		
5	64QAM	12	13	19.30	19.27	19.47				
5	64QAM	25	0	19.36	19.31	19.30				
Channel				26706	26866	27026	Tune-up limit (dBm)	MPRR (dB)		
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	21.37	21.26	21.32				
3	QPSK	1	8	21.33	21.22	21.45	22.5	0		
3	QPSK	1	14	21.35	21.39	21.34				
3	QPSK	8	0	21.21	21.25	21.28				
3	QPSK	8	4	21.12	21.09	21.35	22.5	0		
3	QPSK	8	7	21.30	21.19	21.33				
3	QPSK	15	0	21.26	21.15	21.21				
3	16QAM	1	0	21.20	21.20	21.14				
3	16QAM	1	8	21.16	21.04	21.24	22.5	0		
3	16QAM	1	14	21.22	21.23	21.20				
3	16QAM	8	0	20.14	20.10	20.32				
3	16QAM	8	4	20.25	20.13	20.31	22	0.5		
3	16QAM	8	7	20.16	20.20	20.33				
3	16QAM	15	0	20.23	20.22	20.25				
3	64QAM	1	0	20.23	20.17	20.23				
3	64QAM	1	8	20.21	20.17	20.33	22	0.5		
3	64QAM	1	14	20.39	20.25	20.31				
3	64QAM	8	0	19.14	19.09	19.27				
3	64QAM	8	4	19.21	19.20	19.35	21	1.5		
3	64QAM	8	7	19.24	19.24	19.38				
3	64QAM	15	0	19.24	19.19	19.22				
Channel				26697	26866	27033	Tune-up limit (dBm)	MPRR (dB)		
Frequency (MHz)				814.7	831.5	846.3				
1.4	QPSK	1	0	21.21	21.18	21.34				
1.4	QPSK	1	3	21.30	21.18	21.41				
1.4	QPSK	1	5	21.31	21.30	21.30	22.5	0		
1.4	QPSK	3	0	21.12	21.00	21.11				
1.4	QPSK	3	1	21.10	21.02	21.16				
1.4	QPSK	3	3	21.23	21.14	21.26				
1.4	QPSK	6	0	21.13	21.12	21.17	22.5	0		
1.4	16QAM	1	0	21.22	21.12	21.14				
1.4	16QAM	1	3	21.09	21.03	21.20				
1.4	16QAM	1	5	21.13	21.03	21.19	22.5	0		
1.4	16QAM	3	0	21.15	21.03	21.08				
1.4	16QAM	3	1	21.00	20.87	21.08				
1.4	16QAM	3	3	21.02	20.98	21.06				
1.4	16QAM	6	0	20.17	20.09	20.17	22	0.5		
1.4	64QAM	1	0	20.15	20.08	20.16				
1.4	64QAM	1	3	20.12	20.15	20.27				
1.4	64QAM	1	5	20.31	20.10	20.26	22	0.5		
1.4	64QAM	3	0	20.06	20.04	20.10				
1.4	64QAM	3	1	20.01	20.04	20.11				
1.4	64QAM	3	3	20.26	20.00	20.11				
1.4	64QAM	6	0	19.21	19.09	19.13	21	1.5		

Band 66_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPRR (dB)		
Channel				13272	13272	13272				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	15.56	15.61	15.78				
20	QPSK	1	49	15.41	15.51	15.29	16.5	0		
20	QPSK	1	99	15.34	15.40	15.24				
20	QPSK	50	0	15.51	15.59	15.41				
20	QPSK	50	24	15.50	15.54	15.36	16.5	0		
20	QPSK	50	50	15.48	15.52	15.38				
20	QPSK	100	0	15.50	15.55	15.36				
20	16QAM	1	0	15.40	15.49	15.45				
20	16QAM	1	49	15.33	15.35	15.14	16.5	0		
20	16QAM	1	99	15.28	15.25	15.18				
20	16QAM	50	0	15.42	15.53	15.31				
20	16QAM	50	24	15.43	15.41	15.20	16.5	0		
20	16QAM	50	50	15.34	15.46	15.33				
20	16QAM	100	0	15.30	15.47	15.24				
20	64QAM	1	0	15.42	15.46	15.48				
20	64QAM	1	49	15.33	15.38	15.14	16.5	0		
20	64QAM	1	99	15.19	15.28	15.13				
20	64QAM	50	0	15.36	15.48	15.34				
20	64QAM	50	24	15.34	15.41	15.20	16.5	0		
20	64QAM	50	50	15.34	15.45	15.31				
20	64QAM	100	0	15.30	15.47	15.26				
Channel				132047	132322	132597	Tune-up limit (dBm)	MPRR (dB)		
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	15.43	15.50	15.46				
15	QPSK	1	37	15.34	15.40	15.18	16.5	0		
15	QPSK	1	74	15.21	15.31	15.10				
15	QPSK	36	0	15.38	15.49	15.35				
15	QPSK	36	20	15.38	15.38	15.24	16.5	0		
15	QPSK	36	39	15.40	15.12	15.33				
15	QPSK	75	0	15.44	15.47	15.29				
15	16QAM	1	0	15.25	15.37	15.36				
15	16QAM	1	37	15.26	15.28	15.00	16.5	0		
15	16QAM	1	74	15.19	15.12	15.10				
15	16QAM	36	0							



Band 7_Ant 1										
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				2050	2100	2150				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	15.64	15.74	15.83				
20	QPSK	1	49	15.79	15.70	15.61	17.5	0		
20	QPSK	1	99	15.89	15.75	15.72				
20	QPSK	50	0	15.88	15.81	15.86				
20	QPSK	50	24	15.84	15.74	15.68	17.5	0		
20	QPSK	50	50	15.81	15.73	15.82				
20	QPSK	100	0	15.85	15.78	15.73				
20	16QAM	1	0	15.52	15.68	15.58				
20	16QAM	1	49	15.77	15.67	15.56	17.5	0		
20	16QAM	1	99	15.87	15.69	15.52				
20	16QAM	50	0	15.69	15.75	15.69				
20	16QAM	50	24	15.82	15.80	15.81	17.5	0		
20	16QAM	50	50	15.81	15.82	15.82				
20	16QAM	100	0	15.77	15.63	15.56				
20	64QAM	1	0	15.55	15.55	15.53				
20	64QAM	1	49	15.64	15.53	15.49	17.5	0		
20	64QAM	1	99	15.78	15.61	15.52				
20	64QAM	50	0	15.75	15.61	15.81				
20	64QAM	50	24	15.87	15.73	15.57	17.5	0		
20	64QAM	50	50	15.81	15.62	15.52				
20	64QAM	100	0	15.71	15.70	15.67				
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	15.45	15.62	15.58	17.5	0		
15	QPSK	1	37	15.70	15.57	15.60				
15	QPSK	1	74	15.70	15.64	15.69				
15	QPSK	36	0	15.71	15.66	15.73				
15	QPSK	36	20	15.66	15.73	15.54	17.5	0		
15	QPSK	36	39	15.63	15.67	15.43				
15	QPSK	75	0	15.79	15.75	15.57				
15	16QAM	1	0	15.46	15.67	15.48				
15	16QAM	1	37	15.75	15.61	15.37	17.5	0		
15	16QAM	1	74	15.83	15.64	15.40				
15	16QAM	36	0	15.66	15.69	15.66				
15	16QAM	36	20	15.81	15.46	15.43	17.5	0		
15	16QAM	36	39	15.60	15.42	15.44				
15	16QAM	75	0	15.63	15.50	15.50				
15	64QAM	1	0	15.50	15.45	15.49				
15	64QAM	1	37	15.47	15.40	15.47	17.5	0		
15	64QAM	1	74	15.70	15.44	15.48				
15	64QAM	36	0	15.59	15.41	15.79				
15	64QAM	36	20	15.68	15.47	15.47	17.5	0		
15	64QAM	36	39	15.43	15.50	15.47				
15	64QAM	75	0	15.59	15.69	15.60				
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	15.60	15.59	15.54	17.5	0		
10	QPSK	1	25	15.59	15.56	15.55				
10	QPSK	1	49	15.75	15.58	15.62				
10	QPSK	25	0	15.81	15.63	15.75	17.5	0		
10	QPSK	25	12	15.83	15.60	15.61				
10	QPSK	25	25	15.71	15.69	15.42				
10	QPSK	50	0	15.74	15.62	15.72				
10	16QAM	1	0	15.34	15.66	15.42				
10	16QAM	1	25	15.73	15.58	15.49	17.5	0		
10	16QAM	1	49	15.84	15.67	15.32				
10	16QAM	25	0	15.66	15.55	15.53	17.5	0		
10	16QAM	25	12	15.68	15.46	15.51				
10	16QAM	25	25	15.75	15.54	15.40				
10	16QAM	50	0	15.66	15.43	15.41				
10	64QAM	1	0	15.35	15.46	15.33				
10	64QAM	1	25	15.50	15.38	15.40	17.5	0		
10	64QAM	1	49	15.73	15.59	15.38				
10	64QAM	25	0	15.61	15.58	15.74	17.5	0		
10	64QAM	25	12	15.57	15.61	15.40				
10	64QAM	25	25	15.50	15.54	15.37				
10	64QAM	50	0	15.66	15.52	15.63				
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	0	15.51	15.63	15.53	17.5	0		
5	QPSK	1	12	15.60	15.56	15.53				
5	QPSK	1	24	15.68	15.71	15.52				
5	QPSK	12	0	15.83	15.72	15.77	17.5	0		
5	QPSK	12	7	15.70	15.69	15.62				
5	QPSK	12	13	15.72	15.53	15.53				
5	QPSK	25	0	15.82	15.64	15.66				
5	16QAM	1	0	15.34	15.67	15.57				
5	16QAM	1	12	15.60	15.49	15.55	17.5	0		
5	16QAM	1	24	15.79	15.60	15.41				
5	16QAM	12	0	15.67	15.59	15.66	17.5	0		
5	16QAM	12	7	15.73	15.48	15.42				
5	16QAM	12	13	15.69	15.51	15.58				
5	16QAM	25	0	15.58	15.51	15.39				
5	64QAM	1	0	15.36	15.54	15.52				
5	64QAM	1	12	15.58	15.38	15.45	17.5	0		
5	64QAM	1	24	15.68	15.56	15.48				
5	64QAM	12	0	15.70	15.57	15.63	17.5	0		
5	64QAM	12	7	15.47	15.70	15.53				
5	64QAM	12	13	15.55	15.54	15.35				
5	64QAM	25	0	15.55	15.67	15.63				

Band 66_Ant 1										
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				13202	13222	13242				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	15.01	15.25	15.22				
20	QPSK	1	49	14.83	14.95	14.81	16	0		
20	QPSK	1	99	14.91	15.06	14.85				
20	QPSK	50	0	14.62	15.12	15.11				
20	QPSK	50	24	14.75	14.87	14.83	16	0		
20	QPSK	50	50	14.81	15.11	14.85				
20	QPSK	100	0	14.77	15.08	14.92				
20	16QAM	1	0	14.74	15.11	15.13				
20	16QAM	1	49	14.76	14.86	14.72	16	0		
20	16QAM	1	99	14.83	15.00	14.78				
20	16QAM	50	0	14.62	15.00	15.06				
20	16QAM	50	24	14.62	14.98	14.90	16	0		
20	16QAM	50	50	14.68	15.03	14.83				
20	16QAM	100	0	14.65	15.01	14.90				
20	64QAM	1	0	14.69	15.05	15.04				
20	64QAM	1	49	14.59	14.93	14.83	16	0		
20	64QAM	1	99	14.86	15.07	14.92				
20	64QAM	50	0	14.56	14.83	15.01				
20	64QAM	50	24	14.55	14.92	14.85	16	0		
20	64QAM	50	50	14.62	14.98	14.79				
20	64QAM	100	0	14.57	14.93	14.83				
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	14.96	15.09	15.06				
15	QPSK	1	37	14.70	14.83	14.69	16	0		
15	QPSK	1	74	14.81	14.92	14.77				
15	QPSK	36	0	14.67	15.03	15.00				
15	QPSK	36	20	14.61	14.77	14.77	16	0		
15	QPSK	36	39	14.71	14.95	14.71				
15	QPSK	75	0	14.71	15.02	14.82				
15	16QAM	1	0	14.69	15.04	15.04				
15	16QAM	1	37	14.68	14.71	14.62	16	0		
15	16QAM	1	74	14.74	14.92	14.65				
15	16QAM	36	0	14.52	14.85	14.83				
15	16QAM	36	20	14.51	14.83	14.76	16	0		
15	16QAM	36	39	14.55	14.96	14.78				
15	16QAM	75	0	14.57	14.85	14.78				
15	64QAM	1	0	14.54	14.96	14.83				
15										



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Band 38_Ant 0										
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	17.66	17.31	17.44				
20	QPSK	1	49	17.68	17.41	17.50	18.5	0		
20	QPSK	1	99	17.74	17.42	17.47				
20	QPSK	50	0	17.70	17.43	17.48				
20	QPSK	50	24	17.63	17.50	17.56	18.5	0		
20	QPSK	50	50	17.60	17.47	17.50				
20	QPSK	100	0	17.67	17.51	17.56				
20	16QAM	1	0	17.52	17.42	17.47				
20	16QAM	1	49	17.48	17.46	17.41	18.5	0		
20	16QAM	1	99	17.52	17.47	17.46				
20	16QAM	50	0	17.55	17.31	17.34				
20	16QAM	50	24	17.51	17.30	17.37	18.5	0		
20	16QAM	50	50	17.50	17.32	17.42				
20	16QAM	100	0	17.53	17.32	17.28				
20	64QAM	1	0	17.23	17.06	16.98				
20	64QAM	1	49	17.44	17.09	17.17	18.5	0		
20	64QAM	1	99	17.26	17.11	17.23				
20	64QAM	50	0	17.61	17.30	17.30				
20	64QAM	50	24	17.59	17.30	17.47	18.5	0		
20	64QAM	50	50	17.53	17.46	17.39				
20	64QAM	100	0	17.51	17.30	17.30				
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.57	17.25	17.39				
15	QPSK	1	37	17.59	17.36	17.34	18.5	0		
15	QPSK	1	74	17.69	17.27	17.31				
15	QPSK	36	20	17.64	17.32	17.37				
15	QPSK	36	20	17.50	17.43	17.40	18.5	0		
15	QPSK	36	20	17.49	17.34	17.49				
15	QPSK	75	0	17.61	17.36	17.49				
15	16QAM	1	0	17.37	17.30	17.31				
15	16QAM	1	37	17.39	17.36	17.27	18.5	0		
15	16QAM	1	74	17.36	17.40	17.36				
15	16QAM	36	20	17.60	17.17	17.26				
15	16QAM	36	20	17.40	17.27	17.20	18.5	0		
15	16QAM	36	39	17.39	17.24	17.26				
15	16QAM	75	0	17.47	17.21	17.21				
15	64QAM	1	0	17.08	16.97	16.85				
15	64QAM	1	37	17.36	17.04	17.06	18.5	0		
15	64QAM	1	74	17.13	16.95	17.13				
15	64QAM	36	20	17.64	17.15	17.21				
15	64QAM	36	20	17.44	17.19	17.33	18.5	0		
15	64QAM	36	39	17.43	17.34	17.25				
15	64QAM	75	0	17.40	17.24	17.15				
Channel										
Frequency (MHz)										
10	QPSK	1	0	17.59	17.15	17.32				
10	QPSK	1	23	17.61	17.20	17.42	18.5	0		
10	QPSK	1	49	17.58	17.37	17.37				
10	QPSK	25	0	17.61	17.33	17.37				
10	QPSK	25	12	17.56	17.25	17.45	18.5	0		
10	QPSK	25	25	17.52	17.38	17.54				
10	QPSK	50	0	17.55	17.37	17.41				
10	16QAM	1	0	17.38	17.30	17.32				
10	16QAM	1	23	17.41	17.38	17.28	18.5	0		
10	16QAM	1	49	17.47	17.41	17.36				
10	16QAM	25	0	17.46	17.26	17.21				
10	16QAM	25	12	17.41	17.25	17.26	18.5	0		
10	16QAM	25	25	17.34	17.16	17.31				
10	16QAM	50	0	17.46	17.27	17.18				
10	64QAM	1	0	17.16	16.91	16.93				
10	64QAM	1	23	17.38	17.01	17.09	18.5	0		
10	64QAM	1	49	17.18	16.97	17.15				
10	64QAM	25	0	17.46	17.23	17.26				
10	64QAM	25	12	17.47	17.22	17.42	18.5	0		
10	64QAM	25	25	17.45	17.24	17.26				
10	64QAM	50	0	17.36	17.23	17.19				
Channel										
Frequency (MHz)										
5	QPSK	1	0	17.51	17.24	17.29				
5	QPSK	1	12	17.58	17.32	17.44	18.5	0		
5	QPSK	1	24	17.61	17.31	17.32				
5	QPSK	12	0	17.65	17.35	17.34				
5	QPSK	12	7	17.51	17.41	17.42	18.5	0		
5	QPSK	12	13	17.48	17.41	17.55				
5	QPSK	25	0	17.36	17.36	17.39				
5	16QAM	1	0	17.38	17.35	17.42				
5	16QAM	1	12	17.40	17.30	17.28	18.5	0		
5	16QAM	1	24	17.39	17.24	17.39				
5	16QAM	12	0	17.47	17.17	17.19				
5	16QAM	12	7	17.39	17.34	17.25	18.5	0		
5	16QAM	12	13	17.40	17.17	17.28				
5	16QAM	25	0	17.43	17.26	17.15				
5	64QAM	1	0	17.09	17.02	17.07				
5	64QAM	1	12	17.11	17.29	17.20	18.5	0		
5	64QAM	1	24	17.26	17.29	17.33				
5	64QAM	12	0	17.28	17.36	17.37				
5	64QAM	12	7	17.38	17.43	17.38	18.5	0		
5	64QAM	12	13	17.41	17.48	17.28				
5	64QAM	25	0	17.34	17.28	17.30				

Band 41_Ant 0 (2.6G Band)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Low Middle Ch. (Freq)	Power Middle Ch. (Freq)	Power High Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.33	17.42	17.30	17.51	17.41		
20	QPSK	1	49	17.37	17.52	17.55	17.50	17.40	18.5	0
20	QPSK	1	99	17.42	17.53	17.50	17.53	17.49		
20	QPSK	50	0	17.39	17.42	17.44	17.47	17.38		
20	QPSK	50	24	17.39	17.41	17.43	17.46	17.37	18.5	0
20	QPSK	50	50	17.47	17.51	17.53	17.48	17.39		
20	QPSK	100	0	17.40	17.52	17.58	17.56	17.50		
20	16QAM	1	0	17.26	17.30	17.19	17.41	17.28		
20	16QAM	1	49	17.26	17.40	17.25	17.27	17.29	18.5	0
20	16QAM	1	99	17.31	17.40	17.50	17.41	17.39		
20	16QAM	50	0	17.48	17.45	17.50	17.46	17.45		
20	16QAM	50	24	17.44	17.52	17.46	17.50	17.47	18.5	0
20	16QAM	50	50	17.53	17.58	17.46	17.49	17.37		
20	16QAM	100	0	17.34	17.41	17.44	17.45	17.43		
20	64QAM	1	0	17.23	17.29	17.15	17.36	17.29		
20	64QAM	1	49	17.26	17.40	17.25	17.32	17.25	18.5	0
20	64QAM	1	99	17.32	17.40	17.40	17.38	17.43		
20	64QAM	50	0	17.49	17.42	17.46	17.53	17.46		
20	64QAM	50	24	17.48	17.53	17.46	17.47	17.40	18.5	0
20	64QAM	50	50	17.56	17.53	17.41	17.49	17.41		
20	64QAM	100	0	17.43	17.41	17.49	17.46	17.41		
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.22	17.32	17.22	17.45	17.32		
15	QPSK	1	37	17.25	17.39	17.26	17.41	17.36	18.50	0
15	QPSK	1	74	17.37	17.37	17.30	17.46	17.43		
15	QPSK	36	20	17.47	17.52	17.48	17.53	17.40		
15	QPSK	36	20	17.46	17.55	17.42	17.46	17.38	18.5	0
15	QPSK	36	20	17.50	17.53	17.43	17.53	17.43		
15	QPSK	75	0	17.38	17.37	17.36	17.48	17.39		
15	16QAM	1	0	17.10	17.16	17.13	17.26	17.18		
15	16QAM	1	37	17.17	17.32	17.13	17.29	17.12	18.5	0
15	16QAM	1	74	17.20	17.30	17.25	17.35	17.31		
15	16QAM	36	20	17.46	17.37	17.33	17.34	17.34		
15	16QAM	36	20	17.37	17.37	17.30	17.30	17.34	18.5	0
15	16QAM	36	39	17.45	17.53	17.38	17.33	17.31		
15	16QAM	75	0	17.25	17.26	17.28	17.46	17.36		
15	64QAM	1	0	17.14	17.20	17.06	17.20	17.14		
15	64QAM	1	37	17.20	17.24	17.20	17.18	17.16	18.5	0
15	64QAM	1	74	17.20	17.29	17.30	17.30	17.35		
15	64QAM	36	20	17.25	17.33	17.27	17.39	17.31		
15	64QAM	36	20	17.39	17.37	17.39	17.36	17.32	18.5	0
15	64QAM	36	39	17.50	17.43	17.25	17.36	17.29		
15	64QAM	75	0	17.28	17.28	17.33	17.34	17.31		
Channel										
Frequency (MHz)										
10	QPSK	1	0	17.20	17.34	17.22	17.46	17.34		
10	QPSK	1	25	17.25	17.43	17.21	17.27	17.25	18.50	0
10	QPSK	1	49	17.33	17.41	17.34	17.48	17.42		
10	QPSK	25	0	17.39	17.50	17.49	17.57	17.37		
10	QPSK	25	12	17.47	17.50	17.44	17.49	17.37	18.5	0
10	QPSK	25	25	17.47	17.52	17.47	17.56	17.42		
10	QPSK	50	0	17.42	17.45	17.45	17.51	17.44		
10	16QAM	1	0	17.10	17.24	17.10	17.32	17.16		
10	16QAM	1	25	17.14	17.22	17.12	17.29	17.09	18.5	0
10	16QAM	1	49	17.15	17.26	17.21	17.29	17.31		
10	16QAM	25	0	17.35	17.37	17.42	17.39	17.33		
10	16QAM	25	12	17.27	17.48	17.32	17.40			



n5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167500	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.41	22.40	22.34			
20	PI2 BPSK	1	53	22.15	22.29	22.23	23.0	0.0	
20	PI2 BPSK	1	104	22.12	22.14	22.01	23.0	0.0	
20	PI2 BPSK	50	0	22.24	22.26	22.18	23.0	0.0	
20	PI2 BPSK	50	28	22.35	22.33	22.16	23.0	0.0	
20	PI2 BPSK	50	56	22.21	22.21	22.12	23.0	0.0	
20	PI2 BPSK	100	0	22.34	22.31	22.14	23.0	0.0	
20	QPSK	1	1	22.33	22.36	22.24			
20	QPSK	1	53	22.21	22.32	22.23	23.0	0.0	
20	QPSK	1	104	22.15	22.21	22.17			
20	QPSK	50	0	22.21	22.31	22.26	23.0	0.0	
20	QPSK	50	28	22.15	22.29	22.16	23.0	0.0	
20	QPSK	50	56	22.15	22.23	22.16	23.0	0.0	
20	QPSK	100	0	22.24	22.28	22.23	23.0	0.0	
20	16QAM	1	1	22.20	22.25	22.09	23.0	0.0	
20	84QAM	1	1	20.98	21.12	20.97	21.5	1.5	
20	256QAM	1	1	19.67	19.82	19.74	19.5	3.5	
Channel				168300	169000	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	PI2 BPSK	1	1	22.26	22.32	22.18	23.0	0.0	
Channel				168800	167500	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				839	836.5	844			
10	PI2 BPSK	1	1	22.33	22.33	22.33	23.0	0.0	
Channel				169300	167500	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	PI2 BPSK	1	1	22.34	22.38	22.25	23.0	0.0	

n7_Ant 0									
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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	15.51	15.41	15.38			
40	PI2 BPSK	1	108	15.33	15.49	15.43	16.5	0.0	
40	PI2 BPSK	1	214	15.34	15.27	15.30	16.5	0.0	
40	PI2 BPSK	108	0	15.38	15.35	15.37	16.5	0.0	
40	PI2 BPSK	108	54	15.48	15.36	15.38	16.5	0.0	
40	PI2 BPSK	108	108	15.38	15.30	15.22	16.5	0.0	
40	PI2 BPSK	216	0	15.45	15.41	15.33	16.5	0.0	
40	QPSK	1	1	15.24	15.19	15.20			
40	QPSK	1	108	15.33	15.15	15.22	16.5	0.0	
40	QPSK	1	214	15.38	15.21	15.33	16.5	0.0	
40	QPSK	108	0	15.43	15.42	15.23	16.5	0.0	
40	QPSK	108	54	15.36	15.33	15.32	16.5	0.0	
40	QPSK	108	108	15.36	15.33	15.28	16.5	0.0	
40	QPSK	216	0	15.37	15.26	15.24	16.5	0.0	
40	16QAM	1	1	15.29	15.15	15.11	16.5	0.0	
40	84QAM	1	1	15.33	15.23	15.21	16.5	0.0	
40	256QAM	1	1	15.26	15.12	15.16	16.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI2 BPSK	1	1	15.33	15.30	15.41	16.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
20	PI2 BPSK	1	1	15.35	15.22	15.43	16.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	15.36	15.38	15.43	16.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI2 BPSK	1	1	15.50	15.48	15.49	16.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI2 BPSK	1	1	15.32	15.38	15.40	16.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI2 BPSK	1	1	15.51	15.48	15.33	16.5	0.0	

n66_Ant 0									
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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	16.32	16.46	16.27			
40	PI2 BPSK	1	108	15.96	15.61	15.61	17.5	0.0	
40	PI2 BPSK	1	214	15.98	15.97	15.98	17.5	0.0	
40	PI2 BPSK	108	0	14.87	14.73	14.88	17.5	0.0	
40	PI2 BPSK	108	54	16.08	16.13	16.10	17.5	0.0	
40	PI2 BPSK	108	108	14.84	14.75	14.88	17.5	0.0	
40	PI2 BPSK	216	0	15.98	15.74	15.72	17.5	0.0	
40	QPSK	1	1	16.36	16.23	16.36			
40	QPSK	1	108	15.96	15.77	15.63	17.5	0.0	
40	QPSK	1	214	16.22	16.22	16.17	17.5	0.0	
40	QPSK	108	0	15.88	15.96	15.96	17.5	0.0	
40	QPSK	108	54	15.79	15.63	15.65	17.5	0.0	
40	QPSK	108	108	15.99	15.98	15.75	17.5	0.0	
40	QPSK	216	0	15.77	15.74	15.79	17.5	0.0	
40	16QAM	1	1	16.18	16.33	16.29	17.5	0.0	
40	84QAM	1	1	16.33	16.43	16.36	17.5	0.0	
40	256QAM	1	1	16.19	16.29	16.30	17.5	0.0	
Channel				345500	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	PI2 BPSK	1	1	16.22	16.44	16.19	17.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1774			
20	PI2 BPSK	1	1	16.18	16.35	16.27	17.5	0.0	
Channel				342500	349000	356500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
15	PI2 BPSK	1	1	16.28	16.41	16.14	17.5	0.0	
Channel				342000	349000	357000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1772			
10	PI2 BPSK	1	1	16.42	16.37	16.33	17.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	PI2 BPSK	1	1	16.37	16.34	16.29	17.5	0.0	



n66_Ant 1								
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				349000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	14.87	14.95	14.87		
20	PI/2 BPSK	1	108	14.15	14.22	14.22	16.0	0.0
20	PI/2 BPSK	1	214	14.55	14.67	14.62		
20	PI/2 BPSK	108	0	13.33	13.38	13.36	16.0	0.0
20	PI/2 BPSK	108	54	14.30	14.43	14.35	16.0	0.0
20	PI/2 BPSK	108	108	13.23	13.42	13.41	16.0	0.0
20	PI/2 BPSK	216	0	14.40	14.42	14.30		
20	QPSK	1	1	14.82	14.88	14.82		
20	QPSK	1	108	14.17	14.28	14.27	16.0	0.0
20	QPSK	1	214	14.78	14.84	14.83		
20	QPSK	108	0	14.27	14.47	14.45	16.0	0.0
20	QPSK	108	54	14.10	14.30	14.23	16.0	0.0
20	QPSK	108	108	14.27	14.43	14.38	16.0	0.0
20	QPSK	216	0	14.27	14.43	14.39		
20	16QAM	1	1	14.76	14.87	14.81	16.0	0.0
20	64QAM	1	1	14.89	14.94	14.93	16.0	0.0
20	256QAM	1	1	14.75	14.81	14.78	16.0	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	14.82	14.74	14.78	16.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	14.91	14.84	14.91	16.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
15	PI/2 BPSK	1	1	14.78	14.85	14.82	16.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	14.85	14.87	14.79	16.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	14.90	14.85	14.82	16.0	0.0



n41_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	15.43	15.43	15.41	17.0	0.0	
100	PI/2 BPSK	1	137	15.43	15.35	15.31			
100	PI/2 BPSK	1	271	15.36	15.16	15.29			
100	PI/2 BPSK	135	0	15.36	15.18	15.19	17.0	0.0	
100	PI/2 BPSK	135	69	15.45	15.43	15.39	17.0	0.0	
100	PI/2 BPSK	135	138	15.43	15.31	15.32	17.0	0.0	
100	PI/2 BPSK	270	0	15.41	15.21	15.33			
100	QPSK	1	1	15.29	15.29	15.28	17.0	0.0	
100	QPSK	1	137	15.28	15.12	15.08			
100	QPSK	1	271	15.34	15.31	15.32			
100	QPSK	135	0	15.44	15.30	15.29	17.0	0.0	
100	QPSK	135	69	15.45	15.35	15.36			
100	QPSK	135	138	15.45	15.37	15.36	17.0	0.0	
100	QPSK	270	0	15.34	15.17	15.22			
100	16QAM	1	1	15.33	15.33	15.30	17.0	0.0	
100	64QAM	1	1	15.35	15.19	15.30	17.0	0.0	
100	256QAM	1	1	15.39	15.28	15.28	17.0	0.0	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	15.41	15.43	15.23	17.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	15.41	15.38	15.41	17.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	15.32	15.36	15.33	17.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	15.40	15.23	15.39	17.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	15.41	15.39	15.24	17.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PI/2 BPSK	1	1	15.28	15.23	15.37	17.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	15.47	15.36	15.32	17.0	0.0	

n78_Ant 3 (3450-3550)									
BW [MHz]	Modulation	RB Size	RB Offset		Power Middle Ch / Freq		Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	PI/2 BPSK	1	1		13.16		14.0	0.0	
100	PI/2 BPSK	1	137		13.27				
100	PI/2 BPSK	1	271		13.18				
100	PI/2 BPSK	135	0		13.20		14.0	0.0	
100	PI/2 BPSK	135	69		13.25		14.0	0.0	
100	PI/2 BPSK	135	138		13.19		14.0	0.0	
100	PI/2 BPSK	270	0		13.22				
100	QPSK	1	1		13.10		14.0	0.0	
100	QPSK	1	137		13.16				
100	QPSK	1	271		13.21				
100	QPSK	135	0		13.23		14.0	0.0	
100	QPSK	135	69		13.12				
100	QPSK	135	138		13.26		14.0	0.0	
100	QPSK	270	0		13.23				
100	16QAM	1	1		13.11		14.0	0.0	
100	64QAM	1	1		13.25		14.0	0.0	
100	256QAM	1	1		13.24		14.0	0.0	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	PI/2 BPSK	1	1	13.14	13.00	12.97	14.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI/2 BPSK	1	1	13.15	13.06	12.97	14.0	0.0	
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3514.98			
70	PI/2 BPSK	1	1	13.13	12.98	13.04	14.0	0.0	
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	PI/2 BPSK	1	1	13.13	12.97	13.01	14.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI/2 BPSK	1	1	13.07	13.06	13.04	14.0	0.0	
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.98			
40	PI/2 BPSK	1	1	13.10	13.00	13.05	14.0	0.0	
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3534.99			
30	PI/2 BPSK	1	1	13.15	13.04	12.94	14.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI/2 BPSK	1	1	13.14	13.06	12.97	14.0	0.0	



n41_Ant 0 HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	15.43	15.43	15.41	17.0	0.0	
100	PI/2 BPSK	1	137	15.43	15.35	15.31			
100	PI/2 BPSK	1	271	15.36	15.16	15.29			
100	PI/2 BPSK	135	0	15.36	15.18	15.19	17.0	0.0	
100	PI/2 BPSK	135	69	15.45	15.43	15.39	17.0	0.0	
100	PI/2 BPSK	135	138	15.43	15.31	15.32	17.0	0.0	
100	PI/2 BPSK	270	0	15.41	15.21	15.33			
100	QPSK	1	1	15.29	15.29	15.28	17.0	0.0	
100	QPSK	1	137	15.28	15.12	15.08			
100	QPSK	1	271	15.34	15.31	15.32			
100	QPSK	135	0	15.44	15.30	15.29	17.0	0.0	
100	QPSK	135	69	15.45	15.35	15.36			
100	QPSK	135	138	15.45	15.37	15.36	17.0	0.0	
100	QPSK	270	0	15.34	15.17	15.22			
100	16QAM	1	1	15.33	15.33	15.30	17.0	0.0	
100	64QAM	1	1	15.35	15.19	15.30	17.0	0.0	
100	256QAM	1	1	15.39	15.28	15.28	17.0	0.0	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	15.41	15.43	15.23	17.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	15.41	15.38	15.41	17.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	15.32	15.36	15.33	17.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	15.40	15.23	15.39	17.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	15.41	15.39	15.24	17.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PI/2 BPSK	1	1	15.28	15.23	15.37	17.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	15.47	15.36	15.32	17.0	0.0	

n78_Ant 3 (3450-3550)_HPUE									
BW [MHz]	Modulation	RB Size	RB Offset		Power Middle Ch / Freq		Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	PI/2 BPSK	1	1		13.16		14.0	0.0	
100	PI/2 BPSK	1	137		13.27				
100	PI/2 BPSK	1	271		13.18				
100	PI/2 BPSK	135	0		13.20		14.0	0.0	
100	PI/2 BPSK	135	69		13.25		14.0	0.0	
100	PI/2 BPSK	135	138		13.19		14.0	0.0	
100	PI/2 BPSK	270	0		13.22				
100	QPSK	1	1		13.10		14.0	0.0	
100	QPSK	1	137		13.16				
100	QPSK	1	271		13.21				
100	QPSK	135	0		13.23		14.0	0.0	
100	QPSK	135	69		13.12				
100	QPSK	135	138		13.26		14.0	0.0	
100	QPSK	270	0		13.23				
100	16QAM	1	1		13.11		14.0	0.0	
100	64QAM	1	1		13.25		14.0	0.0	
100	256QAM	1	1		13.24		14.0	0.0	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	PI/2 BPSK	1	1	13.14	13.00	12.97	14.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI/2 BPSK	1	1	13.15	13.06	12.97	14.0	0.0	
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3514.98			
70	PI/2 BPSK	1	1	13.13	12.98	13.04	14.0	0.0	
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	PI/2 BPSK	1	1	13.13	12.97	13.01	14.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI/2 BPSK	1	1	13.07	13.06	13.04	14.0	0.0	
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.98			
40	PI/2 BPSK	1	1	13.10	13.00	13.05	14.0	0.0	
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3534.99			
30	PI/2 BPSK	1	1	13.15	13.04	12.94	14.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI/2 BPSK	1	1	13.14	13.06	12.97	14.0	0.0	



DSI 6(Extremity Standalone&Simultaneous)

Band	TX Channel	WCDMA II_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 0			Tune-up Limit (dBm)
		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	19.64	19.68	19.72	21.00	19.81	20.01	19.75	21.00
3GPP Rel 99	RMC 12.2Kbps	19.66	19.72	19.80	21.00	19.86	20.02	19.81	21.00
3GPP Rel 6	HSDPA Subtest-1	18.72	18.55	18.66	20.00	18.81	18.78	18.87	20.00
3GPP Rel 6	HSDPA Subtest-2	18.64	18.54	18.85	20.00	18.86	18.84	18.79	20.00
3GPP Rel 6	HSDPA Subtest-3	18.04	18.21	18.16	19.50	18.31	18.21	18.29	19.50
3GPP Rel 6	HSDPA Subtest-4	18.21	18.18	18.10	19.50	18.42	18.40	18.24	19.50
3GPP Rel 8	DC-HSDPA Subtest-1	18.51	18.46	18.44	20.00	18.50	18.57	18.58	20.00
3GPP Rel 8	DC-HSDPA Subtest-2	18.59	18.55	18.51	20.00	18.83	18.79	18.66	20.00
3GPP Rel 8	DC-HSDPA Subtest-3	18.01	18.14	18.03	19.50	18.10	17.99	18.00	19.50
3GPP Rel 8	DC-HSDPA Subtest-4	18.08	18.00	18.08	19.50	18.14	18.31	18.31	19.50
3GPP Rel 6	HSUPA Subtest-1	18.69	18.55	18.60	20.00	18.18	18.01	18.08	20.00
3GPP Rel 6	HSUPA Subtest-2	16.64	16.71	16.69	18.00	16.08	16.00	15.92	18.00
3GPP Rel 6	HSUPA Subtest-3	17.59	17.54	17.60	19.00	16.97	16.96	17.07	19.00
3GPP Rel 6	HSUPA Subtest-4	16.69	16.71	16.61	18.00	16.04	16.01	16.04	18.00
3GPP Rel 6	HSUPA Subtest-5	18.53	18.59	18.51	20.00	17.91	17.99	18.07	20.00



Band 2_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Middle Ch./F.Freq.	Power High Ch./F.Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.71	19.45	19.49				
20	QPSK	1	49	19.34	19.38	19.43				
20	QPSK	1	99	19.26	19.31	19.29	20.5	0		
20	QPSK	50	0	19.55	19.59	19.57				
20	QPSK	50	24	19.32	19.29	19.53				
20	QPSK	50	50	19.41	19.48	19.52	20.5	0		
20	QPSK	100	0	19.54	19.53	19.51				
20	16QAM	1	0	19.34	19.39	19.41				
20	16QAM	1	49	19.46	19.44	19.34				
20	16QAM	1	99	19.40	19.39	19.46	20.5	0		
20	16QAM	50	0	19.34	19.42	19.45				
20	16QAM	50	24	19.51	19.33	19.44				
20	16QAM	50	50	19.34	19.39	19.40	20.5	0		
20	16QAM	100	0	19.54	19.53	19.36				
20	64QAM	1	0	19.48	19.43	19.35				
20	64QAM	1	49	19.45	19.38	19.31				
20	64QAM	1	99	19.52	19.45	19.34	20.5	0		
20	64QAM	50	0	19.53	19.53	19.31				
20	64QAM	50	24	19.39	19.33	19.40				
20	64QAM	50	50	19.34	19.39	19.34	20.5	0		
20	64QAM	100	0	19.41	19.48	19.40				
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.61	19.36	19.35				
15	QPSK	1	37	19.25	19.28	19.38				
15	QPSK	1	74	19.13	19.19	19.21	20.5	0		
15	QPSK	36	0	19.57	19.46	19.52				
15	QPSK	36	20	19.34	19.29	19.38				
15	QPSK	36	39	19.36	19.38	19.40	20.5	0		
15	QPSK	75	0	19.44	19.41	19.46				
15	16QAM	1	0	19.20	19.33	19.33				
15	16QAM	1	37	19.37	19.31	19.23				
15	16QAM	1	74	19.35	19.29	19.36	20.5	0		
15	16QAM	36	0	19.24	19.32	19.40				
15	16QAM	36	20	19.32	19.22	19.33				
15	16QAM	36	39	19.20	19.33	19.25	20.5	0		
15	16QAM	75	0	19.45	19.47	19.27				
15	64QAM	1	0	19.37	19.38	19.23				
15	64QAM	1	37	19.37	19.25	19.19				
15	64QAM	1	74	19.37	19.26	19.26	20.5	0		
15	64QAM	36	0	19.37	19.41	19.26				
15	64QAM	36	20	19.32	19.21	19.33				
15	64QAM	36	39	19.35	19.20	19.25	20.5	0		
15	64QAM	75	0	19.29	19.36	19.28				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.57	19.39	19.37				
10	QPSK	1	25	19.29	19.30	19.30				
10	QPSK	1	49	19.13	19.15	19.17	20.5	0		
10	QPSK	25	0	19.53	19.49	19.43				
10	QPSK	25	12	19.33	19.32	19.45				
10	QPSK	25	25	19.25	19.33	19.44	20.5	0		
10	QPSK	50	0	19.47	19.44	19.38				
10	16QAM	1	0	19.20	19.24	19.33				
10	16QAM	1	25	19.30	19.23	19.20				
10	16QAM	1	49	19.30	19.33	19.20	20.5	0		
10	16QAM	25	0	19.26	19.21	19.36				
10	16QAM	25	12	19.39	19.35	19.35				
10	16QAM	25	25	19.20	19.36	19.25	20.5	0		
10	16QAM	50	0	19.39	19.42	19.27				
10	64QAM	1	0	19.35	19.31	19.24				
10	64QAM	1	25	19.37	19.22	19.17				
10	64QAM	1	49	19.46	19.33	19.28	20.5	0		
10	64QAM	25	0	19.40	19.45	19.20				
10	64QAM	25	12	19.39	19.19	19.34				
10	64QAM	25	25	19.39	19.21	19.21	20.5	0		
10	64QAM	50	0	19.29	19.42	19.32				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.58	19.32	19.37				
5	QPSK	1	12	19.26	19.24	19.35				
5	QPSK	1	24	19.19	19.26	19.44	20.5	0		
5	QPSK	12	0	19.27	19.30	19.42				
5	QPSK	12	7	19.31	19.39	19.37				
5	QPSK	12	13	19.28	19.42	19.38	20.5	0		
5	QPSK	25	0	19.44	19.43	19.41				
5	16QAM	1	0	19.24	19.26	19.28				
5	16QAM	1	12	19.33	19.30	19.21				
5	16QAM	1	24	19.30	19.23	19.31	20.5	0		
5	16QAM	12	0	19.24	19.34	19.36				
5	16QAM	12	7	19.35	19.31	19.31				
5	16QAM	12	13	19.25	19.30	19.24	20.5	0		
5	16QAM	25	0	19.38	19.48	19.24				
5	64QAM	1	0	19.38	19.29	19.28				
5	64QAM	1	12	19.39	19.25	19.23				
5	64QAM	1	24	19.39	19.29	19.29	20.5	0		
5	64QAM	12	0	19.37	19.47	19.22				
5	64QAM	12	7	19.27	19.26	19.30				
5	64QAM	12	13	19.31	19.25	19.20	20.5	0		
5	64QAM	25	0	19.25	19.36	19.29				
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.56	19.37	19.43				
3	QPSK	1	8	19.27	19.29	19.38				
3	QPSK	1	14	19.20	19.20	19.19	20.5	0		
3	QPSK	8	0	19.53	19.44	19.48				
3	QPSK	8	4	19.35	19.38	19.48				
3	QPSK	8	7	19.26	19.34	19.39	20.5	0		
3	QPSK	15	0	19.47	19.40	19.37				
3	16QAM	1	0	19.28	19.23	19.32				
3	16QAM	1	8	19.40	19.28	19.24				
3	16QAM	1	14	19.25	19.31	19.37	20.5	0		
3	16QAM	8	0	19.21	19.32	19.36				
3	16QAM	8	4	19.39	19.25	19.30				
3	16QAM	8	7	19.28	19.36	19.28	20.5	0		
3	16QAM	15	0	19.42	19.46	19.31				
3	64QAM	1	0	19.38	19.31	19.23				
3	64QAM	1	8	19.34	19.29	19.18				
3	64QAM	1	14	19.46	19.39	19.27	20.5	0		
3	64QAM	8	0	19.47	19.47	19.21				
3	64QAM	8	4	19.24	19.21	19.25				
3	64QAM	8	7	19.39	19.28	19.25	20.5	0		
3	64QAM	15	0	19.34	19.41	19.34				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	19.59	19.31	19.43				
1.4	QPSK	1	3	19.28	19.32	19.36				
1.4	QPSK	1	5	19.12	19.26	19.22	20.5	0		
1.4	QPSK	3	0	19.49	19.45	19.42				
1.4	QPSK	3	1	19.37	19.32	19.47				
1.4	QPSK	3	3	19.26	19.36	19.45				
1.4	QPSK	6	0	19.49	19.47	19.43	20.5	0		
1.4	16QAM	1	0	19.19	19.26	19.26				
1.4	16QAM	1	3	19.40	19.30	19.20				
1.4	16QAM	1	5	19.12	19.26	19.22				
1.4	16QAM	3	0	19.21	19.29	19.38				
1.4	16QAM	3	1	19.35	19.33	19.30	20.5	0		
1.4	16QAM	3	3	19.23	19.32	19.32				
1.4	16QAM	6	0	19.38	19.41	19.21				
1.4	64QAM	1	0	19.34	19.34	19.29				
1.4	64QAM	1	3	19.29	19.25	19.18				
1.4	64QAM	1	5	19.12	19.26	19.28				
1.4	64QAM	3	0	19.40	19.44	19.24	20.5	0		
1.4	64QAM	3	1	19.31	19.17	19.30				
1.4	64QAM	3	3	19.29	19.22	19.19				
1.4	64QAM	6	0	19.31	19.34	19.35	20.5	0		

Band 4_Ant 0										
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n7_Ant 0									
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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	21.34	21.53	21.42	22.5	0.0	
40	PI/2 BPSK	1	108	21.52	21.57	21.46			
40	PI/2 BPSK	1	214	21.50	21.54	21.45			
40	PI/2 BPSK	108	0	21.47	21.51	21.34	22.5	0.0	
40	PI/2 BPSK	108	54	21.48	21.54	21.44	22.5	0.0	
40	PI/2 BPSK	108	108	21.38	21.49	21.42	22.5	0.0	
40	PI/2 BPSK	216	0	21.45	21.52	21.46			
40	QPSK	1	1	21.46	21.54	21.45			
40	QPSK	1	108	21.41	21.36	21.46	22.5	0.0	
40	QPSK	1	214	21.39	21.47	21.41			
40	QPSK	108	0	21.36	21.50	21.51			
40	QPSK	108	54	21.48	21.52	21.39	22.5	0.0	
40	QPSK	108	108	21.50	21.54	21.38	22.5	0.0	
40	QPSK	216	0	21.44	21.40	21.34			
40	16QAM	1	1	21.24	21.29	21.26			
40	64QAM	1	1	21.00	21.01	20.99	21.5	1.0	
40	256QAM	1	1	19.25	19.26	19.08	19.5	3.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI/2 BPSK	1	1	21.29	21.33	21.28	22.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	PI/2 BPSK	1	1	21.21	21.35	21.34	22.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	21.23	21.37	21.42	22.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI/2 BPSK	1	1	24.49	21.38	21.42	22.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI/2 BPSK	1	1	21.33	21.40	21.44	22.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI/2 BPSK	1	1	21.28	21.48	21.39	22.5	0.0	

n66_Ant 0									
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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	21.60	21.70	21.53	22.5	0.0	
40	PI/2 BPSK	1	108	20.84	20.96	20.88			
40	PI/2 BPSK	1	214	21.44	21.52	21.43			
40	PI/2 BPSK	108	0	21.07	21.17	21.01	22.0	0.5	
40	PI/2 BPSK	108	54	21.10	21.16	21.06	22.5	0.0	
40	PI/2 BPSK	108	108	20.88	21.05	21.00	22.0	0.5	
40	PI/2 BPSK	216	0	21.04	21.16	21.10			
40	QPSK	1	1	21.58	21.59	21.51			
40	QPSK	1	108	20.81	21.01	20.81	22.5	0.0	
40	QPSK	1	214	21.40	21.51	21.37			
40	QPSK	108	0	21.01	21.21	21.17			
40	QPSK	108	54	20.94	20.98	20.81	22.5	0.0	
40	QPSK	108	108	20.99	21.08	21.02	22.5	0.0	
40	QPSK	216	0	20.90	21.10	21.04			
40	16QAM	1	1	21.44	21.55	21.41			
40	64QAM	1	1	21.40	21.56	21.50	22.5	0.0	
40	256QAM	1	1	19.13	19.26	19.22	19.5	2.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	PI/2 BPSK	1	1	21.56	21.53	21.48	22.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	PI/2 BPSK	1	1	21.47	21.58	21.52	22.5	0.0	
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
15	PI/2 BPSK	1	1	21.51	21.65	21.33	22.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	PI/2 BPSK	1	1	21.62	21.58	21.41	22.5	0.0	
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	PI/2 BPSK	1	1	21.60	21.58	21.49	22.5	0.0	



DSI 6(Extremity Standalone)

Band 66_Ant 1									
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				1520772	1523222	1525772			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	20.97	21.07	21.06			
20	QPSK	1	49	20.88	20.87	20.86	22	0	
20	QPSK	1	99	20.81	20.85	20.79			
20	QPSK	50	0	20.88	20.85	20.89			
20	QPSK	50	24	20.57	20.80	20.69	22	0	
20	QPSK	50	50	20.89	20.80	20.85			
20	QPSK	100	0	20.57	20.82	20.67			
20	16QAM	1	0	20.52	20.81	20.87			
20	16QAM	1	49	20.55	20.80	20.50	22	0	
20	16QAM	1	99	20.73	20.88	20.71			
20	16QAM	50	0	20.37	20.62	20.74			
20	16QAM	50	24	20.39	20.63	20.54	22	0	
20	16QAM	50	50	20.53	20.73	20.50			
20	16QAM	100	0	20.43	20.67	20.54			
20	64QAM	1	0	20.53	20.82	20.67			
20	64QAM	1	49	20.47	20.80	20.50	22	0	
20	64QAM	1	99	20.73	20.89	20.70			
20	64QAM	50	0	19.93	20.19	20.30			
20	64QAM	50	24	19.96	20.21	20.10	21	1	
20	64QAM	50	50	20.09	20.30	20.07			
20	64QAM	100	0	19.98	20.23	20.10			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	20.57	20.84	20.98			
15	QPSK	1	37	20.59	20.51	20.50	22	0	
15	QPSK	1	74	20.66	20.90	20.67			
15	QPSK	36	0	20.38	20.63	20.81			
15	QPSK	36	20	20.41	20.73	20.63	22	0	
15	QPSK	36	39	20.58	20.78	20.51			
15	QPSK	75	0	20.41	20.68	20.57			
15	16QAM	1	0	20.40	20.70	20.82			
15	16QAM	1	37	20.45	20.52	20.44	22	0	
15	16QAM	1	74	20.62	20.75	20.63			
15	16QAM	36	0	20.28	20.55	20.58			
15	16QAM	36	20	20.32	20.54	20.44	22	0	
15	16QAM	36	39	20.38	20.64	20.38			
15	16QAM	75	0	20.32	20.60	20.41			
15	64QAM	1	0	20.43	20.71	20.58			
15	64QAM	1	37	20.33	20.45	20.37	22	0	
15	64QAM	1	74	20.64	20.81	20.67			
15	64QAM	36	0	19.83	20.14	20.15			
15	64QAM	36	20	19.88	20.06	19.98	21	1	
15	64QAM	36	39	19.95	20.23	20.01			
15	64QAM	75	0	19.91	20.13	19.96			
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	20.62	20.74	20.81			
10	QPSK	1	25	20.51	20.56	20.44	22	0	
10	QPSK	1	49	20.57	20.79	20.63			
10	QPSK	25	0	20.40	20.51	20.71			
10	QPSK	25	12	20.37	20.88	20.54	22	0	
10	QPSK	25	25	20.55	20.70	20.42			
10	QPSK	50	0	20.44	20.57	20.52			
10	16QAM	1	0	20.27	20.62	20.65			
10	16QAM	1	25	20.38	20.36	20.34	22	0	
10	16QAM	1	49	20.57	20.75	20.47			
10	16QAM	25	0	20.17	20.38	20.50			
10	16QAM	25	12	20.21	20.47	20.39	22	0	
10	16QAM	25	25	20.31	20.56	20.31			
10	16QAM	50	0	20.16	20.49	20.27			
10	64QAM	1	0	20.33	20.68	20.49			
10	64QAM	1	25	20.24	20.37	20.32	22	0	
10	64QAM	1	49	20.54	20.72	20.46			
10	64QAM	25	0	19.79	19.95	20.09			
10	64QAM	25	12	19.79	20.02	19.89	21	1	
10	64QAM	25	25	19.86	20.12	19.88			
10	64QAM	50	0	19.81	20.07	19.85			
Channel				131897	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	20.42	20.60	20.76			
5	QPSK	1	12	20.43	20.41	20.32	22	0	
5	QPSK	1	24	20.57	20.67	20.48			
5	QPSK	12	0	20.28	20.52	20.66			
5	QPSK	12	7	20.23	20.53	20.44	22	0	
5	QPSK	12	13	20.43	20.65	20.41			
5	QPSK	25	0	20.33	20.55	20.37			
5	16QAM	1	0	20.19	20.56	20.58			
5	16QAM	1	12	20.26	20.27	20.21	22	0	
5	16QAM	1	24	20.53	20.54	20.41			
5	16QAM	12	0	20.12	20.34	20.48			
5	16QAM	12	7	20.13	20.36	20.17	22	0	
5	16QAM	12	13	20.24	20.46	20.22			
5	16QAM	25	0	20.20	20.42	20.24			
5	64QAM	1	0	20.27	20.56	20.42			
5	64QAM	1	12	20.18	20.38	20.32	22	0	
5	64QAM	1	24	20.49	20.62	20.46			
5	64QAM	12	0	19.62	19.97	20.05			
5	64QAM	12	7	19.67	19.89	19.86	21	1	
5	64QAM	12	13	19.86	20.06	19.82			
5	64QAM	25	0	19.71	20.02	19.80			
Channel				131897	132322	132657			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	20.31	20.52	20.71			
3	QPSK	1	8	20.26	20.34	20.31	22	0	
3	QPSK	1	14	20.48	20.63	20.42			
3	QPSK	8	0	20.15	20.47	20.57			
3	QPSK	8	4	20.23	20.40	20.38	22	0	
3	QPSK	8	7	20.33	20.57	20.27			
3	QPSK	15	0	20.26	20.46	20.33			
3	16QAM	1	0	20.20	20.48	20.63			
3	16QAM	1	8	20.14	20.20	20.20	22	0	
3	16QAM	1	14	20.40	20.50	20.42			
3	16QAM	8	0	20.01	20.38	20.42			
3	16QAM	8	4	20.07	20.34	20.20	22	0	
3	16QAM	8	7	20.15	20.42	20.15			
3	16QAM	15	0	20.06	20.34	20.20			
3	64QAM	1	0	20.14	20.47	20.27			
3	64QAM	1	8	20.15	20.20	20.11	22	0	
3	64QAM	1	14	20.38	20.58	20.37			
3	64QAM	8	0	19.54	19.77	20.03			
3	64QAM	8	4	19.67	19.90	19.71	21	1	
3	64QAM	8	7	19.81	19.93	19.69			
3	64QAM	15	0	19.59	19.88	19.79			
Channel				131879	132322	132665			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	20.22	20.63	20.68			
1.4	QPSK	1	3	20.24	20.22	20.23	22	0	
1.4	QPSK	1	5	20.38	20.43	20.34			
1.4	QPSK	3	0	20.07	20.33	20.41			
1.4	QPSK	3	1	20.17	20.32	20.24			
1.4	QPSK	3	3	20.21	20.41	20.25			
1.4	QPSK	6	0	20.23	20.42	20.23	21	1	
1.4	16QAM	1	0	20.05	20.36	20.40			
1.4	16QAM	1	3	20.13	20.27	20.03			
1.4	16QAM	1	5	20.29	20.42	20.27	21	1	
1.4	16QAM	3	0	20.03	20.16	20.34			
1.4	16QAM	3	1	20.00	20.25	20.09			
1.4	16QAM	3	3	20.10	20.30	20.08			
1.4	16QAM	6	0	20.03	20.16	20.13	20	2	
1.4	64QAM	1	0	20.10	20.32	20.21			
1.4	64QAM	1	3	20.08	20.16	20.11			
1.4	64QAM	1	5	20.33	20.54	20.21	20	2	
1.4	64QAM	3	0	20.27	20.51	20.38			
1.4	64QAM	3	1	20.02	20.00	20.05			
1.4	64QAM	3	3	20.25	20.40	20.13			
1.4	64QAM	6	0	19.62	19.74	19.67	19	3	



Band 42_Ant 3(3.5GHz Band)									
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				42190	42590	42990	21.5	0	
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	19.88	19.75	19.84	21.5	0	
20	QPSK	1	49	19.81	19.73	19.83			
20	QPSK	1	99	19.91	19.98	19.89			
20	QPSK	50	0	19.70	19.59	19.63	21.5	0	
20	QPSK	50	24	19.64	19.58	19.58			
20	QPSK	50	50	19.75	19.85	19.72			
20	QPSK	100	0	19.65	19.81	19.55	21.5	0	
20	16QAM	1	0	19.66	19.58	19.68			
20	16QAM	1	49	19.63	19.57	19.65			
20	16QAM	1	99	19.54	19.52	19.58	21.5	0	
20	16QAM	50	0	19.79	19.70	19.69			
20	16QAM	50	24	19.75	19.69	19.68			
20	16QAM	50	50	19.63	19.63	19.68	21.5	0	
20	16QAM	100	0	19.72	19.68	19.67			
20	64QAM	1	0	19.76	19.69	19.80			
20	64QAM	1	49	19.72	19.66	19.76	21.5	0	
20	64QAM	1	99	19.65	19.61	19.68			
20	64QAM	50	0	19.74	19.64	19.67			
20	64QAM	50	24	19.71	19.62	19.64	21	0.5	
20	64QAM	50	50	19.60	19.62	19.67			
20	64QAM	100	0	19.68	19.62	19.61			
Channel				42165	42590	43015	21.5	0	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	19.86	19.85	19.87	21.5	0	
15	QPSK	1	37	19.73	19.76	19.73			
15	QPSK	1	74	19.59	19.66	19.61			
15	QPSK	36	0	19.58	19.63	19.56	21.5	0	
15	QPSK	36	20	19.62	19.76	19.79			
15	QPSK	36	39	19.72	19.62	19.66			
15	QPSK	75	0	19.58	19.64	19.62	21.5	0	
15	16QAM	1	0	19.78	19.78	19.76			
15	16QAM	1	37	19.88	19.74	19.75			
15	16QAM	1	74	19.79	19.76	19.66	21.5	0	
15	16QAM	36	0	19.66	19.68	19.76			
15	16QAM	36	20	19.61	19.68	19.65			
15	16QAM	36	39	19.54	19.56	19.62	21.5	0	
15	16QAM	75	0	19.58	19.57	19.68			
15	64QAM	1	0	19.75	19.66	19.70			
15	64QAM	1	37	19.68	19.57	19.67	21.5	0	
15	64QAM	1	74	19.57	19.58	19.60			
15	64QAM	36	0	19.63	19.65	19.57			
15	64QAM	36	20	19.67	19.66	19.55	21	0.5	
15	64QAM	36	39	19.74	19.74	19.72			
15	64QAM	75	0	19.59	19.51	19.55			
Channel				42140	42590	43040	21.5	0	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	19.68	19.71	19.73	21.5	0	
10	QPSK	1	25	19.78	19.61	19.70			
10	QPSK	1	49	19.73	19.62	19.68			
10	QPSK	25	0	19.65	19.55	19.54	21.5	0	
10	QPSK	25	12	19.75	19.59	19.75			
10	QPSK	25	25	19.61	19.63	19.66			
10	QPSK	50	0	19.64	19.57	19.51	21.5	0	
10	16QAM	1	0	19.79	19.50	19.52			
10	16QAM	1	25	19.51	19.56	19.73			
10	16QAM	1	49	19.79	19.72	19.66	21.5	0	
10	16QAM	25	0	19.73	19.65	19.64			
10	16QAM	25	12	19.57	19.57	19.64			
10	16QAM	25	25	19.51	19.53	19.58	21.5	0	
10	16QAM	50	0	19.54	19.59	19.54			
10	64QAM	1	0	19.70	19.59	19.69			
10	64QAM	1	25	19.52	19.69	19.68	21.5	0	
10	64QAM	1	49	19.58	19.53	19.62			
10	64QAM	25	0	19.54	19.66	19.66			
10	64QAM	25	12	19.70	19.54	19.60	21	0.5	
10	64QAM	25	25	19.73	19.52	19.54			
10	64QAM	50	0	19.55	19.61	19.55			
Channel				42115	42590	43065	21.5	0	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	19.72	19.86	19.83	21.5	0	
5	QPSK	1	12	19.75	19.62	19.72			
5	QPSK	1	24	19.66	19.63	19.66			
5	QPSK	12	0	19.64	19.63	19.61	21.5	0	
5	QPSK	12	7	19.59	19.75	19.57			
5	QPSK	12	13	19.56	19.57	19.55			
5	QPSK	25	0	19.64	19.59	19.55	21.5	0	
5	16QAM	1	0	19.77	19.65	19.77			
5	16QAM	1	12	19.55	19.56	19.55			
5	16QAM	1	24	19.36	19.48	19.44	21.5	0	
5	16QAM	12	0	19.64	19.61	19.60			
5	16QAM	12	7	19.60	19.70	19.73			
5	16QAM	12	13	19.62	19.54	19.55	21.5	0	
5	16QAM	25	0	19.56	19.70	19.64			
5	64QAM	1	0	19.72	19.71	19.67			
5	64QAM	1	12	19.58	19.62	19.58	21.5	0	
5	64QAM	1	24	19.58	19.61	19.64			
5	64QAM	12	0	19.73	19.64	19.72			
5	64QAM	12	7	19.67	19.68	19.55	21	0.5	
5	64QAM	12	13	19.77	19.78	19.76			
5	64QAM	25	0	19.55	19.54	19.67			



n66_Ant 1								
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				345000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	20.84	20.90	20.81	22.0	0.0
40	PI/2 BPSK	1	108	20.12	20.26	20.21		
40	PI/2 BPSK	1	214	20.64	20.82	20.72		
40	PI/2 BPSK	108	0	20.41	20.47	20.36	21.5	0.5
40	PI/2 BPSK	108	54	20.42	20.48	20.41	21.5	0.5
40	PI/2 BPSK	108	108	20.15	20.35	20.27	21.5	0.5
40	PI/2 BPSK	216	0	20.31	20.40	20.31		
40	QPSK	1	1	20.76	20.89	20.84	22.0	0.0
40	QPSK	1	108	20.22	20.31	20.29		
40	QPSK	1	214	20.65	20.81	20.77		
40	QPSK	108	0	20.48	20.51	20.34	22.0	0.0
40	QPSK	108	54	20.26	20.28	20.18	22.0	0.0
40	QPSK	108	108	20.20	20.38	20.34	22.0	0.0
40	QPSK	216	0	20.24	20.40	20.23		
40	16QAM	1	1	20.84	20.85	20.69	22.0	0.0
40	64QAM	1	1	20.65	20.83	20.79	21.0	1.0
40	256QAM	1	1	18.98	19.01	18.83	19.5	2.5
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	20.75	20.86	20.66	22.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	20.58	20.89	20.77	22.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
15	PI/2 BPSK	1	1	20.72	20.71	20.62	22.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	20.78	20.69	20.71	22.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	20.70	20.75	20.72	22.0	0.0



n41_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.37	21.32	21.38	22.5	0.0	
100	PI/2 BPSK	1	137	21.37	21.28	21.19			
100	PI/2 BPSK	1	271	21.51	21.39	21.37			
100	PI/2 BPSK	135	0	21.40	21.38	21.34	22.5	0.0	
100	PI/2 BPSK	135	69	21.52	21.41	21.40	22.5	0.0	
100	PI/2 BPSK	135	138	21.47	21.40	21.34	22.5	0.0	
100	PI/2 BPSK	270	0	21.39	21.37	21.38			
100	QPSK	1	1	21.50	21.45	21.44			
100	QPSK	1	137	21.39	21.27	21.27	22.5	0.0	
100	QPSK	1	271	21.43	21.29	21.43			
100	QPSK	135	0	21.56	21.48	21.47			
100	QPSK	135	69	21.39	21.25	21.21	22.5	0.0	
100	QPSK	135	138	21.53	21.35	21.37			
100	QPSK	270	0	21.56	21.56	21.42			
100	16QAM	1	1	21.43	21.31	21.42	22.5	0.0	
100	64QAM	1	1	21.06	21.23	21.11	22.5	0.0	
100	256QAM	1	1	19.51	20.84	20.29	22.0	0.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	21.41	21.48	21.35	22.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	21.50	21.40	21.23	22.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	21.52	21.43	21.30	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	21.56	21.38	21.29	22.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	21.40	21.47	21.37	22.5	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PI/2 BPSK	1	1	21.54	21.34	21.28	22.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	21.51	21.50	21.35	22.5	0.0	

n78_Ant 3(3450-3550)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Middle Ch / Freq			Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
100	PI/2 BPSK	1	1	18.06			19.0	0.0	
100	PI/2 BPSK	1	137	18.06					
100	PI/2 BPSK	1	271	17.97					
100	PI/2 BPSK	135	0	17.98			19.0	0.0	
100	PI/2 BPSK	135	69	18.04			19.0	0.0	
100	PI/2 BPSK	135	138	17.91			19.0	0.0	
100	PI/2 BPSK	270	0	18.00					
100	QPSK	1	1	18.05					
100	QPSK	1	137	17.92			19.0	0.0	
100	QPSK	1	271	18.06					
100	QPSK	135	0	17.97					
100	QPSK	135	69	18.02			19.0	0.0	
100	QPSK	135	138	18.06					
100	QPSK	270	0	18.01					
100	16QAM	1	1	17.91			19.0	0.0	
100	64QAM	1	1	18.01			19.0	0.0	
100	256QAM	1	1	17.91			19.0	0.0	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	PI/2 BPSK	1	1	17.74	17.63	17.66	19.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI/2 BPSK	1	1	17.76	17.69	17.67	19.0	0.0	
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3514.98			
70	PI/2 BPSK	1	1	17.73	17.70	17.69	19.0	0.0	
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	PI/2 BPSK	1	1	17.77	17.63	17.66	19.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI/2 BPSK	1	1	17.68	17.63	17.67	19.0	0.0	
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.98			
40	PI/2 BPSK	1	1	17.68	17.74	17.71	19.0	0.0	
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3534.99			
30	PI/2 BPSK	1	1	17.75	17.73	17.71	19.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI/2 BPSK	1	1	17.71	17.74	17.72	19.0	0.0	



n41_Ant 0 HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.37	21.32	21.38	22.5	0.0	
100	PI/2 BPSK	1	137	21.37	21.28	21.19			
100	PI/2 BPSK	1	271	21.51	21.39	21.37			
100	PI/2 BPSK	135	0	21.40	21.38	21.34	22.5	0.0	
100	PI/2 BPSK	135	69	21.52	21.41	21.40	22.5	0.0	
100	PI/2 BPSK	135	138	21.47	21.40	21.34	22.5	0.0	
100	PI/2 BPSK	270	0	21.39	21.37	21.38			
100	QPSK	1	1	21.50	21.45	21.44			
100	QPSK	1	137	21.39	21.27	21.27	22.5	0.0	
100	QPSK	1	271	21.43	21.29	21.43			
100	QPSK	135	0	21.56	21.48	21.47			
100	QPSK	135	69	21.39	21.25	21.21	22.5	0.0	
100	QPSK	135	138	21.53	21.35	21.37			
100	QPSK	270	0	21.56	21.56	21.42			
100	16QAM	1	1	21.43	21.31	21.42	22.5	0.0	
100	64QAM	1	1	21.06	21.23	21.11	22.5	0.0	
100	256QAM	1	1	19.51	20.84	20.29	22.0	0.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	21.41	21.48	21.35	22.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	21.50	21.40	21.23	22.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	21.52	21.43	21.30	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	21.56	21.38	21.29	22.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	21.40	21.47	21.37	22.5	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PI/2 BPSK	1	1	21.54	21.34	21.28	22.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	21.51	21.50	21.35	22.5	0.0	

n78_Ant 3 (3450-3550) HPUE									
BW [MHz]	Modulation	RB Size	RB Offset		Power Middle Ch / Freq		Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	PI/2 BPSK	1	1		18.06		19.0	0.0	
100	PI/2 BPSK	1	137		18.08				
100	PI/2 BPSK	1	271		17.97				
100	PI/2 BPSK	135	0		17.98		19.0	0.0	
100	PI/2 BPSK	135	69		18.04		19.0	0.0	
100	PI/2 BPSK	135	138		17.91		19.0	0.0	
100	PI/2 BPSK	270	0		18.00				
100	QPSK	1	1		18.05				
100	QPSK	1	137		17.92		19.0	0.0	
100	QPSK	1	271		18.06				
100	QPSK	135	0		17.97				
100	QPSK	135	69		18.02		19.0	0.0	
100	QPSK	135	138		18.06				
100	QPSK	270	0		18.01				
100	16QAM	1	1		17.91		19.0	0.0	
100	64QAM	1	1		18.01		19.0	0.0	
100	256QAM	1	1		17.91		19.0	0.0	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	PI/2 BPSK	1	1	17.74	17.63	17.66	19.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI/2 BPSK	1	1	17.76	17.69	17.67	19.0	0.0	
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3514.98			
70	PI/2 BPSK	1	1	17.73	17.70	17.69	19.0	0.0	
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	PI/2 BPSK	1	1	17.77	17.63	17.66	19.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI/2 BPSK	1	1	17.68	17.63	17.67	19.0	0.0	
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.98			
40	PI/2 BPSK	1	1	17.68	17.74	17.71	19.0	0.0	
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3534.99			
30	PI/2 BPSK	1	1	17.75	17.73	17.71	19.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI/2 BPSK	1	1	17.71	17.74	17.72	19.0	0.0	



DSI 6(Extremity Simultaneous)

Band 66_Ant 1									
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				1533772	1533772	1533772			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	20.51	20.59	20.45			
20	QPSK	1	49	20.23	20.25	20.18	21.5	0	
20	QPSK	1	99	20.35	20.51	20.38			
20	QPSK	50	0	20.28	20.51	20.50			
20	QPSK	50	24	20.13	20.37	20.30	21.5	0	
20	QPSK	50	50	20.28	20.45	20.25			
20	QPSK	100	0	20.15	20.42	20.41			
20	16QAM	1	0	20.11	20.40	20.57			
20	16QAM	1	49	20.12	20.20	20.10	21.5	0	
20	16QAM	1	99	20.31	20.49	20.32			
20	16QAM	50	0	19.94	20.19	20.31			
20	16QAM	50	24	19.97	20.19	20.20	21.5	0	
20	16QAM	50	50	20.10	20.29	20.08			
20	16QAM	100	0	20.01	20.23	20.13			
20	64QAM	1	0	20.10	20.39	20.49			
20	64QAM	1	49	20.21	20.18	20.09	21.5	0	
20	64QAM	1	99	20.30	20.48	20.29			
20	64QAM	50	0	20.03	20.30	20.40			
20	64QAM	50	24	20.06	20.30	20.20	21.0	0.5	
20	64QAM	50	50	20.19	20.39	20.16			
20	64QAM	100	0	20.08	20.32	20.19			
Channel				132047	132322	132597	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	19.96	20.23	20.44			
15	QPSK	1	37	20.07	20.10	19.95	21.5	0	
15	QPSK	1	74	20.09	20.29	20.21			
15	QPSK	36	0	19.86	20.18	20.25			
15	QPSK	36	20	19.94	20.17	20.08	21.5	0	
15	QPSK	36	39	20.11	20.24	20.00			
15	QPSK	75	0	19.94	20.20	20.21			
15	16QAM	1	0	19.92	20.18	20.41			
15	16QAM	1	37	19.91	19.98	19.93	21.5	0	
15	16QAM	1	74	20.08	20.34	20.14			
15	16QAM	36	0	19.89	19.97	20.11			
15	16QAM	36	20	19.78	20.01	20.00	21.5	0	
15	16QAM	36	39	19.95	20.04	19.88			
15	16QAM	75	0	19.83	19.99	19.87			
15	64QAM	1	0	19.91	20.22	20.23			
15	64QAM	1	37	20.03	20.03	19.87	21.5	0	
15	64QAM	1	74	20.04	20.29	20.13			
15	64QAM	36	0	19.83	20.10	20.21			
15	64QAM	36	20	19.82	20.14	19.97	21.0	0.5	
15	64QAM	36	39	20.02	20.17	19.91			
15	64QAM	75	0	19.83	20.15	19.98			
Channel				132022	132322	132622	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	19.88	20.11	20.36			
10	QPSK	1	25	19.91	19.93	19.91	21.5	0	
10	QPSK	1	49	20.03	20.26	20.05			
10	QPSK	25	0	19.78	20.03	20.18			
10	QPSK	25	12	19.91	20.11	19.99	21.5	0	
10	QPSK	25	25	20.04	20.14	19.94			
10	QPSK	50	0	19.83	20.15	20.10			
10	16QAM	1	0	19.79	20.08	20.25			
10	16QAM	1	25	19.88	19.90	19.86	21.5	0	
10	16QAM	1	49	20.03	20.27	20.01			
10	16QAM	25	0	19.67	19.85	19.98			
10	16QAM	25	12	19.89	19.88	19.91	21.5	0	
10	16QAM	25	25	19.97	20.07	19.72			
10	16QAM	50	0	19.78	19.96	19.84			
10	64QAM	1	0	19.86	20.07	20.19			
10	64QAM	1	25	19.89	19.91	19.84	21.5	0	
10	64QAM	1	49	20.02	20.21	19.92			
10	64QAM	25	0	19.74	19.99	20.14			
10	64QAM	25	12	19.85	20.03	19.91	21.0	0.5	
10	64QAM	25	25	19.87	20.17	19.90			
10	64QAM	50	0	19.77	20.06	19.89			
Channel				131997	132322	132647	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	19.82	20.15	20.26			
5	QPSK	1	12	19.92	19.91	19.85	21.5	0	
5	QPSK	1	24	20.00	20.16	19.99			
5	QPSK	12	0	19.72	20.01	20.06	21.5	0	
5	QPSK	12	7	19.74	19.97	19.93			
5	QPSK	12	13	19.95	20.15	19.85			
5	QPSK	25	0	19.77	19.96	20.08			
5	16QAM	1	0	19.75	20.08	20.11			
5	16QAM	1	12	19.86	19.79	19.69	21.5	0	
5	16QAM	1	24	19.99	20.10	19.90			
5	16QAM	12	0	19.56	19.80	19.95			
5	16QAM	12	7	19.54	19.86	19.87	21.5	0	
5	16QAM	12	13	19.79	19.91	19.69			
5	16QAM	25	0	19.61	19.85	19.78			
5	64QAM	1	0	19.75	20.03	20.16			
5	64QAM	1	12	19.90	19.79	19.69	21.5	0	
5	64QAM	1	24	19.92	20.08	19.85			
5	64QAM	12	0	19.69	19.96	20.02			
5	64QAM	12	7	19.75	19.87	19.88	21.0	0.5	
5	64QAM	12	13	19.83	19.94	19.81			
5	64QAM	25	0	19.72	19.91	19.81			
Channel				131987	132322	132657	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	19.76	19.99	20.13			
3	QPSK	1	8	19.74	19.77	19.70	21.5	0	
3	QPSK	1	14	19.90	20.07	19.90			
3	QPSK	8	0	19.61	19.86	20.06	21.5	0	
3	QPSK	8	4	19.67	19.94	19.88			
3	QPSK	8	7	19.83	19.97	19.80			
3	QPSK	15	0	19.71	19.98	20.00			
3	16QAM	1	0	19.73	20.02	20.12			
3	16QAM	1	8	19.70	19.77	19.63	21.5	0	
3	16QAM	1	14	19.92	20.01	19.94			
3	16QAM	8	0	19.73	19.73	19.83	21.5	0	
3	16QAM	8	4	19.70	19.81	19.81			
3	16QAM	8	7	19.65	19.87	19.69			
3	16QAM	15	0	19.81	19.81	19.62			
3	64QAM	1	0	19.72	19.95	20.08			
3	64QAM	1	8	19.75	19.79	19.70	21.5	0	
3	64QAM	1	14	19.89	20.01	19.86			
3	64QAM	8	0	19.58	19.88	20.04	21.0	0.5	
3	64QAM	8	4	19.59	19.82	19.74			
3	64QAM	8	7	19.71	20.01	19.66			
3	64QAM	15	0	19.66	19.89	19.69			
Channel				131979	132322	132665	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1710.7	1745	1778.3			
1.4	QPSK	1	0	19.62	20.00	20.02			
1.4	QPSK	1	3	19.66	19.78	19.70	21.5	0	
1.4	QPSK	1	5	19.86	20.02	19.89			
1.4	QPSK	3	0	19.67	19.85	19.84	21.5	0	
1.4	QPSK	3	1	19.60	19.86	19.82			
1.4	QPSK	3	3	19.82	19.86	19.79			
1.4	QPSK	6	0	19.61	19.83	19.83	21.5	0	
1.4	16QAM	1	0	19.63	19.90	20.05			
1.4	16QAM	1	3	19.58	19.71	19.55			
1.4	16QAM	1	5	19.81	19.90	19.74	21.5	0	
1.4	16QAM	3	0	19.62	20.06	20.28			
1.4	16QAM	3	1	19.51	19.56	19.50			
1.4	16QAM	3	3	19.70	19.81	19.69			
1.4	16QAM	6	0	19.51	19.66	19.58	21.5	0	
1.4	64QAM	1	0	19.53	19.79	19.93			
1.4	64QAM	1	3	19.75	19.68	19.55			
1.4	64QAM	1	5	19.72	19.87	19.79	21.5	0	
1.4	64QAM	3	0	19.56	19.79	19.81			
1.4	64QAM	3	1	19.51	19.75	19.66			
1.4	64QAM	3	3	19.71	19.90	19.69			
1.4	64QAM	6	0	19.55	19.81	19.58	21.0	0.5</	



Band 42_Ant 3 (3.5GHz Band)									
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				42190	42590	42990	21	0	
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	19.18	19.12	19.15	21	0	
20	QPSK	1	49	19.15	19.08	19.15			
20	QPSK	1	99	19.22	19.38	19.19			
20	QPSK	50	0	19.31	19.27	19.28	21	0	
20	QPSK	50	24	19.12	19.26	19.23			
20	QPSK	50	50	19.35	19.36	19.33			
20	QPSK	100	0	19.28	19.31	19.24	21	0	
20	16QAM	1	0	19.34	19.28	19.32			
20	16QAM	1	49	19.28	19.21	19.27			
20	16QAM	1	99	19.24	19.20	19.23	21	0	
20	16QAM	50	0	19.36	19.29	19.23			
20	16QAM	50	24	19.33	19.28	19.28			
20	16QAM	50	50	19.21	19.20	19.26	21	0	
20	16QAM	100	0	19.32	19.26	19.22			
20	64QAM	1	0	19.04	19.24	19.28			
20	64QAM	1	49	19.01	19.22	19.28	21	0	
20	64QAM	1	99	19.22	19.18	19.22			
20	64QAM	50	0	19.31	19.23	19.22			
20	64QAM	50	24	19.28	19.22	19.16	21	0	
20	64QAM	50	50	19.15	19.15	19.20			
20	64QAM	100	0	19.36	19.30	19.28			
Channel				42165	42590	43015	21	0	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	19.05	19.16	19.05	21	0	
15	QPSK	1	37	19.13	19.14	19.00			
15	QPSK	1	74	19.01	19.07	19.01			
15	QPSK	36	0	19.24	19.18	19.28	21	0	
15	QPSK	36	20	19.00	19.23	19.28			
15	QPSK	36	39	19.34	19.22	19.18			
15	QPSK	75	0	19.08	19.10	19.10	21	0	
15	16QAM	1	0	19.33	19.28	19.18			
15	16QAM	1	37	19.18	19.15	19.18			
15	16QAM	1	74	19.22	19.23	19.08	21	0	
15	16QAM	36	0	19.28	19.33	19.20			
15	16QAM	36	20	19.17	19.24	19.28			
15	16QAM	36	39	19.01	19.02	19.03	21	0	
15	16QAM	75	0	19.22	19.24	19.14			
15	64QAM	1	0	19.28	19.00	19.18			
15	64QAM	1	37	19.18	19.17	19.16	21	0	
15	64QAM	1	74	19.18	19.21	19.16			
15	64QAM	36	0	19.26	19.18	19.21			
15	64QAM	36	20	19.18	19.11	19.15	21	0	
15	64QAM	36	39	19.14	19.00	19.10			
15	64QAM	75	0	19.22	19.24	19.18			
Channel				42140	42590	43040	21	0	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	19.00	19.02	19.14	21	0	
10	QPSK	1	25	19.27	19.05	19.05			
10	QPSK	1	49	19.03	19.11	19.00			
10	QPSK	25	0	19.20	19.16	19.16	21	0	
10	QPSK	25	12	19.00	19.27	19.06			
10	QPSK	25	25	19.24	19.15	19.31			
10	QPSK	50	0	19.17	19.23	19.08	21	0	
10	16QAM	1	0	19.14	19.20	19.18			
10	16QAM	1	25	19.20	19.13	19.21			
10	16QAM	1	49	19.14	19.14	19.04	21	0	
10	16QAM	25	0	19.28	19.23	19.28			
10	16QAM	25	12	19.27	19.14	19.28			
10	16QAM	25	25	19.03	19.20	19.15	21	0	
10	16QAM	50	0	19.25	19.22	19.19			
10	64QAM	1	0	19.28	19.28	19.15			
10	64QAM	1	25	19.11	19.29	19.24	21	0	
10	64QAM	1	49	19.04	19.21	19.18			
10	64QAM	25	0	19.26	19.29	19.18			
10	64QAM	25	12	19.11	19.22	19.16	21	0	
10	64QAM	25	25	19.28	19.09	19.08			
10	64QAM	50	0	19.27	19.31	19.31			
Channel				42115	42590	43065	21	0	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	19.14	19.04	19.00	21	0	
5	QPSK	1	12	19.28	19.04	19.27			
5	QPSK	1	24	19.29	19.05	19.06			
5	QPSK	12	0	19.29	19.23	19.19	21	0	
5	QPSK	12	7	19.00	19.08	19.23			
5	QPSK	12	13	19.28	19.23	19.30			
5	QPSK	25	0	19.20	19.24	19.23	21	0	
5	16QAM	1	0	19.14	19.16	19.25			
5	16QAM	1	12	18.85	18.93	18.87			
5	16QAM	1	24	18.79	18.74	18.86	21	0	
5	16QAM	12	0	19.03	19.29	19.18			
5	16QAM	12	7	19.13	19.29	19.26			
5	16QAM	12	13	19.15	19.16	19.12	21	0	
5	16QAM	25	0	19.15	19.17	19.17			
5	64QAM	1	0	19.33	19.14	19.19			
5	64QAM	1	12	19.27	19.25	19.19	21	0	
5	64QAM	1	24	19.18	19.13	19.13			
5	64QAM	12	0	19.15	19.19	19.21			
5	64QAM	12	7	19.25	19.15	19.16	21	0	
5	64QAM	12	13	19.26	19.28	19.28			
5	64QAM	25	0	19.29	19.26	19.16			



n66_Ant 1								
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				345000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	20.56	20.61	20.54	21.5	0.0
40	PI/2 BPSK	1	108	19.88	20.00	19.82		
40	PI/2 BPSK	1	214	20.49	20.53	20.38		
40	PI/2 BPSK	108	0	19.64	19.81	19.74	21.0	0.5
40	PI/2 BPSK	108	54	19.94	20.13	20.10	21.0	0.5
40	PI/2 BPSK	108	108	19.85	20.08	20.03	21.0	0.5
40	PI/2 BPSK	216	0	19.95	20.12	20.02		
40	QPSK	1	1	19.84	19.84	19.81	21.5	0.0
40	QPSK	1	108	19.74	19.84	19.79		
40	QPSK	1	214	20.30	20.35	20.32		
40	QPSK	108	0	20.07	20.21	20.21	21.5	0.0
40	QPSK	108	54	19.71	19.91	19.79	21.5	0.0
40	QPSK	108	108	19.97	20.04	19.84	21.5	0.0
40	QPSK	216	0	19.94	20.11	19.96		
40	16QAM	1	1	20.40	20.40	20.30	21.5	0.0
40	64QAM	1	1	20.40	20.40	20.42	21.0	0.5
40	256QAM	1	1	19.00	19.03	19.03	19.5	2.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	20.08	20.24	20.20	21.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	20.25	20.29	20.28	21.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
15	PI/2 BPSK	1	1	20.11	20.39	20.21	21.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	20.48	20.38	20.42	21.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	20.44	20.42	20.45	21.5	0.0



n41_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.37	21.32	21.38	22.5	0.0	
100	PI/2 BPSK	1	137	21.37	21.28	21.19			
100	PI/2 BPSK	1	271	21.51	21.39	21.37			
100	PI/2 BPSK	135	0	21.40	21.38	21.34	22.5	0.0	
100	PI/2 BPSK	135	69	21.52	21.41	21.40	22.5	0.0	
100	PI/2 BPSK	135	138	21.47	21.40	21.34	22.5	0.0	
100	PI/2 BPSK	270	0	21.39	21.37	21.38			
100	QPSK	1	1	21.50	21.45	21.44			
100	QPSK	1	137	21.39	21.27	21.27	22.5	0.0	
100	QPSK	1	271	21.43	21.29	21.43			
100	QPSK	135	0	21.56	21.48	21.47			
100	QPSK	135	69	21.39	21.25	21.21	22.5	0.0	
100	QPSK	135	138	21.53	21.35	21.37			
100	QPSK	270	0	21.56	21.56	21.42			
100	16QAM	1	1	21.43	21.31	21.42	22.5	0.0	
100	64QAM	1	1	21.06	21.23	21.11	22.5	0.0	
100	256QAM	1	1	19.51	20.84	20.29	22.0	0.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	21.41	21.48	21.35	22.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	21.50	21.40	21.23	22.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	21.52	21.43	21.30	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	21.56	21.38	21.29	22.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	21.40	21.47	21.37	22.5	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PI/2 BPSK	1	1	21.54	21.34	21.28	22.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	21.51	21.50	21.35	22.5	0.0	

n78_Ant 3(3450-3550)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Middle Ch / Freq			Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633666			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1	17.58			18.5	0.0	
100	PI/2 BPSK	1	137	17.50					
100	PI/2 BPSK	1	271	17.49					
100	PI/2 BPSK	135	0	17.50			18.5	0.0	
100	PI/2 BPSK	135	69	17.56			18.5	0.0	
100	PI/2 BPSK	135	138	17.43			18.5	0.0	
100	PI/2 BPSK	270	0	17.52					
100	QPSK	1	1	17.57					
100	QPSK	1	137	17.44			18.5	0.0	
100	QPSK	1	271	17.58					
100	QPSK	135	0	17.49					
100	QPSK	135	69	17.54			18.5	0.0	
100	QPSK	135	138	17.58					
100	QPSK	270	0	17.53					
100	16QAM	1	1	17.43			18.5	0.0	
100	64QAM	1	1	17.53			18.5	0.0	
100	256QAM	1	1	17.43			18.5	0.0	
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	PI/2 BPSK	1	1	17.26	17.15	17.18	18.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI/2 BPSK	1	1	17.28	17.21	17.19	18.5	0.0	
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3514.98			
70	PI/2 BPSK	1	1	17.25	17.22	17.21	18.5	0.0	
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	PI/2 BPSK	1	1	17.29	17.15	17.18	18.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI/2 BPSK	1	1	17.20	17.15	17.19	18.5	0.0	
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.98			
40	PI/2 BPSK	1	1	17.20	17.26	17.23	18.5	0.0	
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3534.99			
30	PI/2 BPSK	1	1	17.27	17.25	17.23	18.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI/2 BPSK	1	1	17.23	17.26	17.24	18.5	0.0	



n41_Ant 0 HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.37	21.32	21.38	22.5	0.0	
100	PI/2 BPSK	1	137	21.37	21.28	21.19			
100	PI/2 BPSK	1	271	21.51	21.39	21.37			
100	PI/2 BPSK	135	0	21.40	21.38	21.34	22.5	0.0	
100	PI/2 BPSK	135	69	21.52	21.41	21.40	22.5	0.0	
100	PI/2 BPSK	135	138	21.47	21.40	21.34	22.5	0.0	
100	PI/2 BPSK	270	0	21.39	21.37	21.38			
100	QPSK	1	1	21.50	21.45	21.44			
100	QPSK	1	137	21.39	21.27	21.27	22.5	0.0	
100	QPSK	1	271	21.43	21.29	21.43			
100	QPSK	135	0	21.56	21.48	21.47			
100	QPSK	135	69	21.39	21.25	21.21	22.5	0.0	
100	QPSK	135	138	21.53	21.35	21.37			
100	QPSK	270	0	21.56	21.56	21.42			
100	16QAM	1	1	21.43	21.31	21.42	22.5	0.0	
100	64QAM	1	1	21.06	21.23	21.11	22.5	0.0	
100	256QAM	1	1	19.51	20.84	20.29	22.0	0.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	21.41	21.48	21.35	22.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	21.50	21.40	21.23	22.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	21.52	21.43	21.30	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	21.56	21.38	21.29	22.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	21.40	21.47	21.37	22.5	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PI/2 BPSK	1	1	21.54	21.34	21.28	22.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	21.51	21.50	21.35	22.5	0.0	

n78_Ant 3 (3450-3550) HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Middle Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1	17.58	18.5	0.0			
100	PI/2 BPSK	1	137	17.50					
100	PI/2 BPSK	1	271	17.49					
100	PI/2 BPSK	135	0	17.50	18.5	0.0			
100	PI/2 BPSK	135	69	17.56	18.5	0.0			
100	PI/2 BPSK	135	138	17.43	18.5	0.0			
100	PI/2 BPSK	270	0	17.52					
100	QPSK	1	1	17.57					
100	QPSK	1	137	17.44	18.5	0.0			
100	QPSK	1	271	17.58					
100	QPSK	135	0	17.49					
100	QPSK	135	69	17.54	18.5	0.0			
100	QPSK	135	138	17.58					
100	QPSK	270	0	17.53					
100	16QAM	1	1	17.43	18.5	0.0			
100	64QAM	1	1	17.53	18.5	0.0			
100	256QAM	1	1	17.43	18.5	0.0			
Channel				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3504.99			
90	PI/2 BPSK	1	1	17.26	17.15	17.18	18.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI/2 BPSK	1	1	17.28	17.21	17.19	18.5	0.0	
Channel				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3514.98			
70	PI/2 BPSK	1	1	17.25	17.22	17.21	18.5	0.0	
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3519.99			
60	PI/2 BPSK	1	1	17.29	17.15	17.18	18.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI/2 BPSK	1	1	17.20	17.15	17.19	18.5	0.0	
Channel				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3529.98			
40	PI/2 BPSK	1	1	17.20	17.26	17.23	18.5	0.0	
Channel				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3534.99			
30	PI/2 BPSK	1	1	17.27	17.25	17.23	18.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI/2 BPSK	1	1	17.23	17.26	17.24	18.5	0.0	



Conducted Power for UL CA

CA_7C_ANT0											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Full	22.41	24.00
21100	20902	QPSK	1	0	0	0	1	0	Full	22.44	24.00
21350	21152	QPSK	1	0	0	0	1	0	Full	22.67	24.00
20850	21048	QPSK	1	99	1	0	2	0	Hotspot on	15.30	16.00
21100	20902	QPSK	1	0	1	99	2	0	Hotspot on	15.24	16.00
21350	21152	QPSK	1	0	1	99	2	0	Hotspot on	15.22	16.00
20850	21048	QPSK	1	99	1	0	2	0	Sensor Standalone	17.15	18.50
21100	20902	QPSK	1	0	1	99	2	0	Sensor Standalone	17.01	18.50
21350	21152	QPSK	1	0	1	99	2	0	Sensor Standalone	17.10	18.50
20850	21048	QPSK	1	99	1	0	2	0	Sensor Simultaneous	15.30	16.00
21100	20902	QPSK	1	0	1	99	2	0	Sensor Simultaneous	15.24	16.00
21350	21152	QPSK	1	0	1	99	2	0	Sensor Simultaneous	15.22	16.00

CA_7C_ANT1											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Full	20.17	22.00
21100	20902	QPSK	1	0	0	0	1	0	Full	20.11	22.00
21350	21152	QPSK	1	0	0	0	1	0	Full	20.05	22.00
20850	21048	QPSK	1	99	1	0	2	0	HeadStandalone	16.74	18.50
21100	20902	QPSK	1	0	1	99	2	0	HeadStandalone	16.62	18.50
21350	21152	QPSK	1	0	1	99	2	0	HeadStandalone	16.55	18.50
20850	21048	QPSK	1	99	1	0	2	0	Head Simultaneous	15.92	17.50
21100	20902	QPSK	1	0	1	99	2	0	Head Simultaneous	15.91	17.50
21350	21152	QPSK	1	0	1	99	2	0	Head Simultaneous	15.78	17.50
20850	21048	QPSK	1	99	1	0	2	0	Hotspot on	15.92	17.50
21100	20902	QPSK	1	0	1	99	2	0	Hotspot on	15.91	17.50
21350	21152	QPSK	1	0	1	99	2	0	Hotspot on	15.78	17.50
20850	21048	QPSK	1	99	1	0	2	0	SensorStandalone	19.06	20.50
21100	20902	QPSK	1	0	1	99	2	0	SensorStandalone	19.02	20.50
21350	21152	QPSK	1	0	1	99	2	0	SensorStandalone	19.09	20.50
20850	21048	QPSK	1	99	1	0	2	0	Sensor Simultaneous	15.92	17.50
21100	20902	QPSK	1	0	1	99	2	0	Sensor Simultaneous	15.91	17.50
21350	21152	QPSK	1	0	1	99	2	0	Sensor Simultaneous	15.78	17.50

CA 41C											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	0	0	0	1	0	Full Power	22.51	24.00
40185	39987	QPSK	1	0	0	0	1	0	Full Power	22.66	24.00
40620	40422	QPSK	1	0	0	0	1	0	Full Power	22.77	24.00
41055	40857	QPSK	1	0	0	0	1	0	Full Power	22.74	24.00
41490	41292	QPSK	1	0	0	0	1	0	Full Power	22.67	24.00
39750	39948	QPSK	1	99	1	0	2	0	Sensor Standalone	18.67	20.00
40185	39987	QPSK	1	0	1	99	2	0	Sensor Standalone	18.59	20.00
40620	40422	QPSK	1	0	1	99	2	0	Sensor Standalone	18.56	20.00
41055	40857	QPSK	1	0	1	99	2	0	Sensor Standalone	18.23	20.00
41490	41292	QPSK	1	0	1	99	2	0	Sensor Standalone	18.19	20.00
39750	39948	QPSK	1	99	1	0	2	0	Hotspot on	17.38	18.50
40185	39987	QPSK	1	0	1	99	2	0	Hotspot on	17.35	18.50
40620	40422	QPSK	1	0	1	99	2	0	Hotspot on	17.36	18.50
41055	40857	QPSK	1	0	1	99	2	0	Hotspot on	17.24	18.50
41490	41292	QPSK	1	0	1	99	2	0	Hotspot on	17.28	18.50
39750	39948	QPSK	1	99	1	0	2	0	Sensor Simultaneous	17.38	18.50
40185	39987	QPSK	1	0	1	99	2	0	Sensor Simultaneous	17.35	18.50
40620	40422	QPSK	1	0	1	99	2	0	Sensor Simultaneous	17.36	18.50
41055	40857	QPSK	1	0	1	99	2	0	Sensor Simultaneous	17.24	18.50
41490	41292	QPSK	1	0	1	99	2	0	Sensor Simultaneous	17.28	18.50



Conducted Power for DL CA

Full Power		2CC															
Configure	CA Configuration (BCS)	PCC							SCC				Power				
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)			
Inter-Band	CA_2A-4A	Band 2	20M	1860	18700	QPSK	1	0	Band 4	20M	2132.5	2175	22.65	22.66			
	CA_2A-5A	Band 2	20M	1860	18700	QPSK	1	0	Band 5	10M	881.5	2525	22.63	22.66			
	CA_2A-7A	Band 2	20M	1860	18700	QPSK	1	0	Band 7	20M	2655	3100	22.61	22.66			
	CA_4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	22.68	22.69			
	CA_4A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	22.77	22.69			
	CA_5A-7A	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	22.82	22.57			
	CA_5A-38A	Band 5	10M	836.5	20525	QPSK	1	0	Band 38	20M	2595	38000	22.80	22.57			
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	22.64	22.57			
	CA_26A-41A	Band 26	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	22.54	22.49			
	CA_4A-41A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	22.66	22.69			
Intra-Band	Non-Contiguous	CA_7A-7A	Band 7	20M	2560	21350	QPSK	1	99	Band 7	5M	2622.5	2775	22.81	23.04		
		CA_41A-41A	Band 41	20M	2593	40620	QPSK	1	99	Band 41	5M	2687.5	41565	22.76	22.92		
		CA_7B	Band 7	15M	2535	21100	QPSK	1	0	Band 7	5M	2664.30	3193	22.31	22.92		
	Contiguous	CA_38C	Band 38	20M	2580	37850	QPSK	1	49	Band 38	20M	2599.80	38048	22.89	22.96		
		CA_66B	Band 66	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.3	66979	22.34	22.32		
		CA_66C	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	22.17	22.32		

3CC		3CC																	
Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				Power		
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)	
Intra-Band	Contiguous	CA_7A-66A-66A	Band 7	20M	2560	21350	QPSK	1	99	Band 66	20M	2145	66786	Band 66	5M	2197.5	67311	22.46	23.04
		CA_26A-41C	Band 26	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	22.59	22.49
		CA_41D	Band 41	20M	2680	41490	QPSK	1	99	Band 41	20M	2660.2	41292	Band 41	20M	2640.4	41094	22.41	22.92

4CC		4CC																				
Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				SCC3				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	CA_7C-66A-66A	Band 7	20M	2560	21350	QPSK	1	99	Band 7	20M	2660.2	3152	Band 66	20	2120	66536	Band 66	20	2190	67236	22.58	23.04



Conducted Power for WLAN/BT

Art 244		Full power(Default Power Table) [Max default power table] Handheld power table [Standalone WLAN power table 9] Default Power Table, Simultaneous WLAN+WWAN [power table 1] Free-Space / Tabletop Power Table, Standalone WLAN [power table 10] Free-Space / Tabletop Power Table, Simultaneous WLAN+WWAN [power table 11]				AI-Head Power Table Standalone WLAN [power table 4]		AI-Head Power Table WLAN+WWAN [power table 5]		Body-Worn Power Table Standalone WLAN [power table 6]		Body-Worn Power Table Simultaneous WLAN+WWAN [power table 7] MHS (Mobile Hotspot) Power Table Simultaneous WLAN+WWAN [power table 2]		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	21.26	22.50	20.29	21.90	18.31	17.90	19.33	20.50	16.62	18.00	97.82
		6	2437	21.12	22.50	20.18	21.50	16.21	17.50	19.15	20.50	16.65	18.00	
		11	2462	21.31	22.50	20.34	21.50	16.37	17.50	19.36	20.50	16.89	18.00	
	802.11g 6Mbps	1	2412	19.77	21.00		21.00		17.50		20.50		18.00	98.08
		6	2437	20.61	22.00		21.50		17.50		20.50		18.00	
		11	2462	20.86	22.00		21.50		17.50		20.50		18.00	
	802.11n-HT20 MCS0	1	2412	18.91	20.00		20.00		17.50		20.50		18.00	100.00
		6	2437	19.57	21.00		21.00		17.50		20.50		18.00	
		11	2462	19.91	21.00	Not Required	21.00	Not Required	17.50	Not Required	20.50	Not Required	18.00	
	802.11ac-VHT20 MCS0	1	2412	18.81	20.00		20.00		17.50		20.00		18.00	100.00
		6	2437	19.47	21.00		21.00		17.50		20.50		18.00	
		11	2462	19.81	21.00		21.00		17.50		20.50		18.00	
802.11ax-HE20 MCS0	1	2412	18.91	20.00		20.00		17.50		20.50		18.00	100.00	
	6	2437	19.91	21.00		21.00		17.50		20.50		18.00		
	11	2462	20.16	21.00		21.00		17.50		20.50		18.00		

Note: The 2.4GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

Art 41-12		Full power(Default Power Table) [Max default power table] AI-Head Power Table Standalone WLAN [power table 4] Handheld power table, Standalone WLAN [power table 9]				AI-Head Power Table WLAN+WWAN [power table 5]		Body-Worn Power Table Standalone WLAN [power table 6]		Body-Worn Power Table Simultaneous WLAN+WWAN [power table 7] MHS (Mobile Hotspot) Power Table Simultaneous WLAN+WWAN [power table 2]		Handheld power table Default Power Table, Simultaneous WLAN+WWAN [power table 1] Free-Space / Tabletop Power Table, Standalone WLAN [power table 10] Free-Space / Tabletop Power Table, Simultaneous WLAN+WWAN [power table 11]		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.2GHz WLAN	802.11a 6Mbps	36	5180	20.77	21.50		18.00		19.50		14.00		21.50	97.95
		40	5200	21.18	22.00		18.00		19.50		14.00		21.50	
		44	5220	21.09	22.00		18.00		19.50		14.00		21.50	
	802.11n-HT20 MCS0	36	5180	20.94	22.00		18.00		19.50		14.00		21.50	100.00
		40	5200	20.67	21.50		18.00		19.50		14.00		21.50	
		44	5220	20.66	21.50		18.00		19.50		14.00		21.50	
	802.11n-HT40 MCS0	36	5180	18.71	19.50	Not Required	18.00	Not Required	19.50	Not Required	14.00	18.71	19.50	100.00
		46	5230	20.35	21.50		18.00		19.50		14.00	20.35	21.50	
		36	5180	20.81	21.50		18.00		19.50		14.00		21.50	
	802.11ac-VHT20 MCS0	40	5200	20.63	21.50		18.00		19.50		14.00		21.50	100.00
		44	5220	20.60	21.50		18.00		19.50		14.00		21.50	
		48	5240	20.50	21.50		18.00		19.50		14.00		21.50	
802.11ac-VHT40 MCS0	38	5190	18.68	19.50		18.00		19.50		14.00		19.50	100.00	
	46	5230	20.33	21.50		18.00		19.50		14.00		21.50		
	42	5210	18.11	19.50		18.00	18.11	19.50		14.00		19.50		
802.11ac-VHT16M	50	5250	17.40	18.50	16.44	18.00		18.50	12.46	14.00		18.50	100.00	
	36	5180	21.16	22.00		18.00		19.50		14.00		21.50		
	40	5200	21.05	22.00		18.00		19.50		14.00		21.50		
802.11ax-HE20 MCS0	44	5220	20.98	22.00		18.00		19.50		14.00		21.50	100.00	
	48	5240	20.80	22.00	Not Required	18.00	Not Required	19.50	Not Required	14.00		21.50		
	38	5190	18.29	19.50		18.00		19.50		14.00		19.50		
802.11ax-HE40 MCS0	46	5230	20.11	21.50		18.00		19.50		14.00		21.50	100.00	
	42	5210	18.51	19.50		18.00		19.50		14.00		19.50		
	50	5250	17.53	18.50		18.00		18.50		14.00		18.50		

Note: The 5GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

Art 41-12		Full power(Default Power Table) [Max default power table] AI-Head Power Table [Standalone WLAN power table 4] Handheld power table [Standalone WLAN power table 9] Default Power Table, Simultaneous WLAN+WWAN [power table 1] Free-Space / Tabletop Power Table, Standalone WLAN [power table 10] Free-Space / Tabletop Power Table, Simultaneous WLAN+WWAN [power table 11]				AI-Head Power Table WLAN+WWAN [power table 5]		Body-Worn Power Table Standalone WLAN [power table 6]		Body-Worn Power Table Simultaneous WLAN+WWAN [power table 7]		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.3GHz WLAN	802.11a 6Mbps	52	5260	20.87	22.00		18.00		19.50		14.00	97.95
		56	5280	20.64	22.00		18.00		19.50		14.00	
		60	5300	20.83	22.00		18.00		19.50		14.00	
	802.11n-HT20 MCS0	52	5260	20.44	21.50		18.00		19.50		14.00	100.00
		56	5280	20.30	21.50		18.00		19.50		14.00	
		60	5300	20.48	21.50		18.00		19.50		14.00	
	802.11n-HT40 MCS0	52	5260	20.42	21.50	Not Required	18.00	Not Required	19.50	Not Required	14.00	100.00
		62	5310	18.86	19.50		18.00		19.50		14.00	
		52	5260	20.42	21.50		18.00		19.50		14.00	
	802.11ac-VHT20 MCS0	56	5280	20.26	21.50		18.00		19.50		14.00	100.00
		60	5300	20.43	21.50		18.00		19.50		14.00	
		64	5320	20.33	21.50		18.00		19.50		14.00	
802.11ac-VHT40 MCS0	54	5270	20.09	21.00		18.00		19.50		14.00	100.00	
	62	5310	18.63	19.50		18.00		19.50		14.00		
	58	5290	19.35	20.50	16.89	18.00	16.41	19.50	12.88	14.00		100.00
802.11ax-HE20 MCS0	52	5260	20.69	22.00		18.00		19.50		14.00	100.00	
	56	5280	20.58	22.00		18.00		19.50		14.00		
	60	5300	20.71	22.00		18.00		19.50		14.00		
802.11ax-HE40 MCS0	64	5320	20.71	22.00	Not Required	18.00	Not Required	19.50	Not Required	14.00	100.00	
	54	5270	19.85	21.00		18.00		19.50		14.00		
	62	5310	18.41	19.50		18.00		19.50		14.00		
802.11ax-HE80 MCS0	58	5290	19.39	20.50		18.00		19.50		14.00	100.00	

Note: The 5GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.



Art 4-12		Full power(Default Power Table) [Max default power table] Handheld power table [Standalone WLAN power table 9]				AI-Head Power Table Standalone WLAN [power table 4]		AI-Head Power Table WLAN+WWAN [power table 5]		Body-Worn Power Table Standalone WLAN [power table 6]		Body-Worn Power Table Simultaneous WLAN+WWAN [power table 7]		Handheld power table Simultaneous WLAN+WWAN [power table 8] Default Power Table, Simultaneous WLAN+WWAN [power table 1] Free-Space / Tabletop Power Table, Standalone WLAN [power table 10] Free-Space / Tabletop Power Table, Simultaneous WLAN+WWAN [power table 11]		Duty Cycle %																																			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %																																				
5.5GHz WLAN	802.11a 6Mbps	100	5500	20.33	21.50	Not Required	19.50	13.50	16.00	10.00	17.00	97.95																																							
		116	5580	20.24	21.50																																														
		132	5660	20.45	21.50																																														
	140	5700	17.59	18.50																																															
	802.11n-HT20 MCS0	100	5500	19.91	21.00								19.50	13.50	16.00	10.00	17.00	100.00																																	
		116	5580	19.88	21.00																																														
		132	5660	19.99	21.00																																														
	140	5700	17.28	18.50																																															
	802.11n-HT40 MCS0	102	5510	19.68	21.00														18.52	13.50	16.00	10.00	17.00	100.00																											
		110	5550	19.50	21.00																																														
		134	5670	19.19	20.50																																														
	802.11ac-VHT20 MCS0	100	5500	19.89	21.00																				18.58	13.50	16.00	10.00	17.00	100.00																					
		116	5580	19.83	21.00																																														
		132	5660	19.98	21.00																																														
	140	5700	17.25	18.50																																															
	802.11ac-VHT40 MCS0	102	5510	19.62	20.50																										19.50	13.50	16.00	10.00	17.00	100.00															
		110	5550	19.46	20.50																																														
		134	5670	19.61	20.50																																														
	802.11ac-VHT80 MCS0	106	5530	17.62	18.50																																Not Required	12.67	13.50	15.17	16.00	9.18	16.21	17.00	100.00						
		100	5500	20.22	21.50																																														
		116	5580	20.13	21.50																																														
	802.11ax-HE20 MCS0	132	5660	20.32	21.50																																									19.50	13.50	16.00	10.00	17.00	100.00
		140	5700	18.01	19.00																																														
		102	5510	17.88	18.50																																														
802.11ax-HE40 MCS0	110	5550	19.31	20.50	Not Required	13.50	16.00	10.00	17.00	100.00																																									
	134	5670	19.44	20.50																																															
	106	5530	17.22	18.50																																															

Note: The 5GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

Art 4-12		Full power(Default Power Table) [Max default power table] AI-Head Power Table Standalone WLAN [power table 4] Handheld power table [Standalone WLAN power table 9] Handheld power table [Simultaneous WLAN+WWAN power table 5] Default Power Table, Simultaneous WLAN+WWAN [power table 1] Free-Space / Tabletop Power Table, Standalone WLAN [power table 10] Free-Space / Tabletop Power Table, Simultaneous WLAN+WWAN [power table 11]				AI-Head Power Table WLAN+WWAN [power table 5]		Body-Worn Power Table Standalone WLAN [power table 6]		Body-Worn Power Table Simultaneous WLAN+WWAN [power table 7] MHS (Mobile Hotspot) Power Table Simultaneous WLAN+WWAN [power table 2]		Duty Cycle %																														
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %																															
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.54	21.50	Not Required	21.00	18.00	13.00	97.95																																
		157	5785	20.55	21.50																																					
		165	5825	20.43	21.50																																					
	802.11n-HT20 MCS0	149	5745	20.13	21.00						21.00	18.00	13.00	10.00	100.00																											
		157	5785	20.14	21.00																																					
		165	5825	20.02	21.00																																					
	802.11n-HT40 MCS0	151	5755	18.64	19.50											18.64	19.50	Not Required	13.00	100.00																						
		159	5795	19.93	21.00																																					
		149	5745	20.11	21.00																																					
	802.11ac-VHT20 MCS0	157	5785	20.13	21.00																21.00	16.00	13.00	10.00	100.00																	
		165	5825	20.00	21.00																																					
		151	5755	18.62	19.50																																					
	802.11ac-VHT40 MCS0	159	5795	19.91	21.00																					21.00	18.00	13.00	10.00	100.00												
		155	5775	18.81	20.00																																					
		149	5745	20.31	21.50																																					
	802.11ax-HE20 MCS0	149	5745	20.32	21.50																										Not Required	20.00	17.35	18.00	11.88	13.00	100.00					
		157	5785	20.32	21.50																																					
		165	5825	20.22	21.50																																					
	802.11ax-HE40 MCS0	151	5755	18.54	19.50																																	Not Required	19.50	18.00	13.00	100.00
		159	5795	19.70	21.00																																					
		155	5775	18.81	20.00																																					

Note: The 5GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

Art 4-12(Full Power)					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	1	5955	8.15	9.00	97.95
	57	6235	9.04	10.00	
	113	6515	9.72	11.00	
	173	6815	9.88	11.00	
	233	7115	12.55	13.50	
802.11n-HT20 MCS0	1	5955	8.84	10.00	100.00
	57	6235	9.23	9.00	
	113	6515	10.25	11.00	
	173	6815	10.36	11.00	
	233	7115	13.20	14.50	
802.11n-HT40 MCS0	3	5965	11.12	12.00	100.00
	59	6245	10.39	11.50	
	107	6485	12.30	13.00	
	171	6805	12.86	14.00	
	227	7085	15.24	16.00	
802.11ac-VHT20 MCS0	1	5955	8.70	9.50	100.00
	57	6235	8.09	9.00	
	113	6515	10.23	11.00	
	173	6815	10.25	11.00	
	233	7115	13.18	14.00	
802.11ac-VHT40 MCS0	3	5965	11.10	12.00	100.00
	59	6245	10.26	11.00	
	107	6485	12.28	13.00	
	171	6805	12.74	13.50	
	227	7085	15.22	16.00	
802.11ac-VHT80 MCS0	7	5985	13.70	14.50	100.00
	71	6305	12.67	13.50	
	119	6545	13.88	15.50	
	167	6785	14.34	15.50	
	215	7025	14.81	16.00	
802.11ax-HE20 MCS0	15	6025	15.88	16.50	100.00
	47	6185	15.91	16.50	
	111	6505	13.96	15.50	
	175	6825	14.77	16.50	
	207	6985	13.20	14.00	
802.11ax-HE40 MCS0	1	5955	8.80	9.50	100.00
	57	6235	8.41	9.50	
	113	6515	9.89	10.50	
	173	6815	10.73	11.50	
	233	7115	14.13	15.00	
802.11ax-HE80 MCS0	3	5965	11.45	12.50	100.00
	59	6245	10.70	11.50	
	107	6485	12.08	13.00	
	171	6805	13.18	14.00	
	227	7085	14.93	15.00	
802.11ax-HE160 MCS0	7	5985	14.14	15.00	100.00
	71	6305	12.96	14.00	
	119	6545	13.84	14.50	
	167	6785	14.23	15.00	
	215	7025	14.74	15.50	
802.11ax-HE320 MCS0	15	6025	15.93	16.50	100.00
	47	6185	15.96	16.50	
	111	6505	13.91	15.50	
	175	6825	14.73	16.50	
	207	6985	13.17	14.00	

Note: The 6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.



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	9.90	9.90	10.00	9.90	9.90	10.00	9.90	9.90	10.00	11
	CH 39	2441	9.50	9.50	9.60	9.60	9.60	9.70	9.50	9.50	9.60	
	CH 78	2480	8.80	8.80	8.90	8.80	8.80	8.90	8.80	8.80	8.90	

BT LE 4.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	8.20	
	CH 19	2440	7.40	
	CH 39	2480	7.20	
Tune-up Limit			9	

BT LE 5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	8.20	8.10
	CH 19	2440	7.40	7.30
	CH 39	2480	7.20	7.10
Tune-up Limit			9	9



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.



RF exposure position											Aperture 0										
											Average Value of This Sweep (W/kg)										
Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	0	18	36	54	72	90	108	126				
WLAN_Ant 1 Head	WCDMA W	RMC 12.2kPa	Full Power	1413	1722.6	NA	NA	Left Cheek	Open	0.129	0.038	0.107	0.04	0.084	0.033	0.077	0.035	0.033			
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	1	18	37	55	73	91	109	127			
	WCDMA E	RMC 12.2kPa	Full Power	3238	1827.6	NA	NA	Left Cheek	Open	0.102	0.054	0.034	0.088	0.031	0.021	0.046	0.014	0.025			
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	2	20	38	56	74	92	110	128			
	LTE Band 66	20M-QPSK	Full Power	13232	1745	1	0	Left Cheek	Open	0.0033	0.048	0.066	0.048	0.018	0.039	0.061	0.043	0.032			
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	3	21	39	57	75	93	111	129			
	LTE Band 2	20M-QPSK	Full Power	18750	1880	1	0	Left Cheek	Open	0.00	0.046	0.036	0.032	0.041	0.047	0.03	0.036	0.027			
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	4	22	40	58	76	94	112	130			
	LTE Band 7	20M-QPSK	Full Power	21050	2060	1	0	Right Cheek	Open	0.117	0.092	0.068	0.064	0.042	0.054	0.04	0.034	0.035			
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	5	23	41	59	77	95	113	131			
	LTE Band 41	20M-QPSK	Full Power	48220	2053	1	80	Right Cheek	Open	0.0827	0	0.043	0.041	0.036	0	0.035	0.041	0.035			
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	6	24	42	60	78	96	114	132			
	FRI 466	40M-BPSK	Full Power	348000	1745	108	54	Left Cheek	Open	0.1	0.051	0.043	0.033	0.043	0.041	0.018	0.032	0.03			
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	7	25	43	61	79	97	115	133			
	FRI 47	40M-BPSK	Full Power	348000	2020	108	54	Right Cheek	Open	0.113	0.071	0.054	0.048	0.032	0.041	0.034	0.044	0.049			
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	8	26	44	62	80	98	116	134			
FRI 461	100M-BPSK	Full Power	348000	2046.01	1	127	Right Cheek	Open	0.171	0.118	0.092	0.079	0.052	0.073	0.048	0	0				
Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	9	27	45	63	81	99	117	135				
WCDMA W	RMC 12.2kPa	Hotspot on	1513	1722.6	NA	NA	Bottom Side	Open	0.84	0.758	0.578	0.487	0.706	0.441	0.679	0.379	0.494				
Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	10	28	46	64	82	100	118	136				
WCDMA E	RMC 12.2kPa	Hotspot on	3400	1880	NA	NA	Bottom Side	Open	0.815	0.769	0.777	0.811	0.83	0.927	0.922	0.903	0.416				
Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	11	29	47	65	83	101	119	137				
LTE Band 66	20M-QPSK	Hotspot on	13232	1770	1	0	Bottom Side	Open	0.842	0.573	0.531	0.428	0.378	0.52	0.383	0.372	0.235				
Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	12	30	48	66	84	102	120	138				
LTE Band 2	20M-QPSK	Sensor on	18100	1900	1	0	Back	Open	0.845	0.648	0.613	0.549	0.344	0.474	0.302	0.236	0.171				
Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	13	31	49	67	85	103	121	139				
LTE Band 7	20M-QPSK	Sensor on	20830	2010	1	0	Back	Open	0.818	0.526	0.529	0.328	0.188	0.283	0.182	0.153	0.102				
Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	14	32	50	68	86	104	122	140				
LTE Band 41	20M-QPSK	Hotspot on	38750	2056	1	0	Bottom Side	Open	0.819	0.542	0.333	0.315	0.194	0.239	0.183	0.161	0.109				
Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	15	33	51	69	87	105	123	141				
FRI 466	40M-BPSK	Hotspot on	348000	1750	1	0	Bottom Side	Open	0.815	0.455	0.361	0.256	0.156	0.209	0.142	0.123	0.092				
Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	16	34	52	70	88	106	124	142				
FRI 47	40M-BPSK	Sensor on	347000	2035	108	54	Back	Open	0.862	0.518	0.277	0.261	0.161	0.245	0.155	0.129	0.085				
Band	Mode	Power Reduction	Channel	Frequency (MHz)	SS Size	SS Offset	Test Position	Spacing	Measured Tg SAR (W/kg)	17	35	53	71	89	107	125	143				
FRI 461-PC3PC3	100M-BPSK	Hotspot on	348000	2046.01	1	0	Bottom Side	Open	0.812	0.485	0.281	0.228	0.151	0.229	0.145	0.121	0.078				

NF exposure position										Aperture 00																											
										Average Value of This Sweep (W/m ²)																											
WIND_Ant 1 Head	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sigs	RS Other	Test Position	Spacing	Measured to SAE (W/m ²)	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138			
		WCDMA V	RMC 12.2Mbps	Rec on	4223	848.6	NA	NA	Left Cheek	Open	0.991	0	0.24	0.27	0	0.7	0.188	0	0.274	0.284	0	0.751	0.178	0	0.269	0.286	0	0.701	0.183	0	0.274	0.287	0	0.891	0.161		
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sigs	RS Other	Test Position	Spacing	Measured to SAE (W/m ²)	1	7	13	19	25	31	37	43	49	55	61	67	73	79	85	91	97	103	109	115	121	127	133	139			
	LTE Band 12	15M-QPSK	Full Power	2305	707.5	1	0	Left Cheek	Open	0.896	0.264	0.7	0.842	0.127	0.458	0.212	0.077	0.882	0.864	0	0.414	0.885	0	0.268	0.3	0	0.332	0.294	0	0.132	0.888	0	0.217	0.072			
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sigs	RS Other	Test Position	Spacing	Measured to SAE (W/m ²)	2	8	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116	122	128	134	140			
	LTE Band 26	15M-QPSK	Full Power	2695	831.5	1	0	Left Cheek	Open	0.965	0.082	0.851	0.55	0.1	0.945	0.725	0.113	0.96	0.887	0.127	0.842	0.878	0.14	0.855	0.841	0.138	0.825	0.814	0.164	0.821	0.96	0.146	0.918	0.834			
WIND_Ant 1 Body	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sigs	RS Other	Test Position	Spacing	Measured to SAE (W/m ²)	3	9	15	21	27	33	39	45	51	57	63	69	75	81	87	93	99	105	111	117	123	129	135	141			
	WCDMA V	RMC 12.2Mbps	Rec on	4182	826.4	NA	NA	Back	Open	0.885	0.144	0	0.43	0.214	0	0.732	0.112	0	0.482	0.262	0	0.177	0.173	0	0.888	0.228	0	0.177	0.162	0	0.402	0.262	0.058	0.762			
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sigs	RS Other	Test Position	Spacing	Measured to SAE (W/m ²)	4	10	16	22	28	34	40	46	52	58	64	70	76	82	88	94	100	106	112	118	124	130	136	142			
	LTE Band 12	15M-QPSK	Full Power	2305	707.5	1	0	Back	Open	0.815	0.386	0.181	0.847	0.285	0.05	0.18	0.545	0.038	0.382	0.444	0	0.177	0.05	0	0.121	0.138	0.095	0.141	0	0.108	0.082	0.044	0.108	0.101			
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RS Sigs	RS Other	Test Position	Spacing	Measured to SAE (W/m ²)	5	11	17	23	29	35	41	47	53	59	65	71	77	83	89	95	101	107	113	119	125	131	137	143			
LTE Band 26	15M-QPSK	Full Power	2695	831.5	1	0	Back	Open	0.812	0.247	0.082	0.512	0.468	0	0.615	0.346	0.127	0.674	0.578	0	0.722	0.449	0.164	0.744	0.674	0.045	0.68	0.524	0.191	0.758	0.74	0.046	0.586				

Aperture 01																	Aperture 02																														
Average Value of Time Sweep (W/g)																	Average Value of Time Sweep (W/g)																														
5	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	5	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138
0.127	0.408	0.552	0.591	0.473	0.209	0.123	0.854	0.876	0.271	0.417	0.944	0	0.297	0.254	0	0.268	0.289	0	0.149	0.12	0	0.188	0.1	0.077	0.052	0.468	0.545	0.625	0.166	0.227	0.31	0.623	0.13	0.83	0.48	0.042	0.571	0.504	0	0.481	0.484	0	0.286	0.244	0	0.329	0.215
7	7	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	7	7	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138
0	0.376	0.483	0.649	0.142	0.324	0.105	0.135	0.117	0	0.117	0.181	0.037	0.047	0.075	0.08	0.075	0.081	0.087	0.088	0.071	0.073	0.046	0	0.07	0.468	0.533	0.648	0.167	0.281	0.04	0.181	0.189	0.037	0.145	0.208	0.048	0.181	0.04	0.049	0.062	0.035	0.081	0.044	0.087	0.05	0.06	0.08
2	8	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116	122	128	134	140	2	8	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116	122	128	134	140
0.537	0.746	0.884	0.425	0.58	0.341	0.236	0.707	0.785	0.391	0.261	0.465	0	0.286	0.288	0.08	0.131	0.135	0.085	0.105	0.107	0.091	0.084	0.075	0.279	0.838	0.838	0.283	0.958	0.408	0.825	0.825	0.842	0.819	0.471	0.803	0.074	0.504	0.532	0.082	0.228	0.888	0.074	0.289	0.272	0.073	0.143	0.123
3	9	15	21	27	33	39	45	51	57	63	69	75	81	87	93	99	105	111	117	123	129	135	141	3	9	15	21	27	33	39	45	51	57	63	69	75	81	87	93	99	105	111	117	123	129	135	141
0.292	0.187	0.36	0.257	0.366	0.216	0.622	0.105	0.174	0.089	0.14	0.212	0.112	0.02	0.182	0.202	0.207	0.178	0.055	0.055	0.113	0.086	0.073	0.127	0.212	0.072	0.602	0.26	0.08	0.022	0.112	0	0.174	0.053	0.053	0.202	0.022	0.389	0.428	0.082	0.206	0.112	0.089	0.201	0.054	0.056	0.207	
4	10	16	22	28	34	40	46	52	58	64	70	76	82	88	94	100	106	112	118	124	130	136	142	4	10	16	22	28	34	40	46	52	58	64	70	76	82	88	94	100	106	112	118	124	130	136	142
0.288	0.04	0.127	0.209	0.111	0.055	0.103	0.038	0.062	0.071	0.046	0.055	0.043	0.049	0.038	0.075	0.106	0.091	0.08	0.103	0.071	0.053	0.082	0.084	0.412	0.043	0.165	0.212	0.083	0.071	0.064	0.046	0.077	0.088	0.105	0.045	0.07	0.08	0.054	0.082	0.08	0.072	0.043	0	0.077	0.083	0.038	0
5	11	17	23	29	35	41	47	53	59	65	71	77	83	89	95	101	107	113	119	125	131	137	143	5	11	17	23	29	35	41	47	53	59	65	71	77	83	89	95	101	107	113	119	125	131	137	143
0.442	0.38	0.418	0.244	0.127	0.152	0.428	0.212	0.162	0.273	0.065	0.074	0.105	0.043	0.081	0.168	0.082	0.042	0.048	0	0.05	0.105	0.086	0.039	0.463	0.227	0.612	0.3	0.077	0.281	0.084	0.034	0.051	0.075	0.055	0.124	0.189	0.082	0.148	0.274	0.071	0.07	0.087	0.074	0.088	0.179	0.087	0.048

Aperture 03																	Aperture 04																														
Average Value of Time Sweep (W/g)																	Average Value of Time Sweep (W/g)																														
0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138
0.04	0.463	0.366	0	0.774	0.193	0.087	0.737	0.619	0.046	0.005	0.307	0.098	0.002	0.758	0	0.058	0.438	0.061	0.71	0.004	0	0.724	0.443	0	0.225	0.176	0	0.38	0.145	0	0.167	0.131	0	0.201	0.102	0	0.113	0.066	0	0.221	0.057	0	0.062	0.043	0	0.184	0.04
1	7	13	19	25	31	37	43	49	55	61	67	73	79	85	91	97	103	109	115	121	127	133	139	1	7	13	19	25	31	37	43	49	55	61	67	73	79	85	91	97	103	109	115	121	127	133	139
0.336	0.617	0.621	0.346	0.231	0.241	0	0.303	0.337	0.002	0.213	0.335	0.166	0.101	0.059	0.053	0.14	0.063	0.048	0.055	0.082	0.04	0.054	0.105	0.044	0.453	0.366	0.036	0.053	0.109	0.240	0.094	0.082	0.12	0.082	0.413	0.046	0.012	0.734	0.11	0.037	0.039	0.111	0.432	0.217	0.109	0.51	0.277
2	8	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116	122	128	134	140	2	8	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116	122	128	134	140
0.145	0.007	0.705	0.162	0.005	0.039	0.102	0.008	0.004	0.409	0.005	0.77	0.276	0.011	0.005	0.207	0.018	0.91	0.108	0.702	0.739	0.105	0.382	0.045	0.045	0.477	0.35	0.061	0.354	0.007	0.026	0.403	0.289	0.045	0.265	0.578	0.006	0.314	0.217	0.103	0.23	0.201	0.066	0.275	0.213	0	0.201	0.364
3	9	15	21	27	33	39	45	51	57	63	69	75	81	87	93	99	105	111	117	123	129	135	141	3	9	15	21	27	33	39	45	51	57	63	69	75	81	87	93	99	105	111	117	123	129	135	141
0.202	0.267	0.272	0.208	0	0.023	0.006	0	0.002	0.007	0	0.075	0.211	0.102	0.701	0.302	0.104	0.076	0.462	0.1	0.064	0.033	0.046	0.037	0.102	0.002	0.202	0.108	0.006	0.408	0.076	0.04	0.204	0.143	0.037	0.11	0.02	0.102	0.102	0.006	0.006	0.32	0.047	0.101	0.102	0.006	0.032	0.273
4	10	16	22	28	34	40	46	52	58	64	70	76	82	88	94	100	106	112	118	124	130	136	142	4	10	16	22	28	34	40	46	52	58	64	70	76	82	88	94	100	106	112	118	124	130	136	142
0.003	0.19	0.242	0.21	0.073	0.086	0.002	0	0.142	0.2	0	0.1	0.105	0.108	0.046	0.007	0.006	0.007	0.05	0.055	0.066	0.04	0.045	0.046	0.106	0.005	0.302	0.173	0.045	0.206	0.055	0.176	0.002	0.419	0.052	0.29	0.205	0.1	0.443	0.40	0.006	0.332	0.004	0.006	0.223	0.179	0.105	0.273
5	11	17	23	29	35	41	47	53	59	65	71	77	83	89	95	101	107	113	119	125	131	137	143	5	11	17	23	29	35	41	47	53	59	65	71	77	83	89	95	101	107	113	119	125	131	137	143
0.328	0.143	0.702	0.365	0.046	0.003	0.711	0.44	0.704	0.540	0.102	0.39	0.380	0.241	0.401	0.541	0.074	0.194	0.285	0.041	0.224	0.416	0.007	0.123	0.162	0.058	0.202	0.423	0.104	0.162	0.105	0.046	0.217	0.261	0.006	0.10	0.101	0.111	0.178	0.28	0.102	0.105	0.107	0.111	0.108	0.245	0.101	0.121

Aperture 05															Aperture 09																																
Average Value of Time Sweep (Wtg)															Average Value of Time Sweep (Wtg)																																
5	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	5	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138
0.449	0.396	0.626	0.336	0.255	0.233	0	0.269	0.241	0	0.161	0.123	0	0.103	0.072	0	0.113	0.07	0	0.064	0.043	0	0.077	0.062	0.432	0.629	0.627	0.26	0.328	0.294	0.24	0.225	0.215	0	0.225	0.219	0	0.15	0.121	0	0.154	0.136	0	0.277	0.263	0	0.105	0.05
0.065	0	0.332	0	0.101	0.358	0.007	0.08	0.071	0.002	0.03	0.034	0	0.073	0.016	0.05	0.044	0.075	0.016	0.061	0.086	0.01	0.054	0.016	0.277	0.324	0.102	0.113	0.345	0.088	0.085	0.088	0	0.082	0.114	0.111	0.106	0.055	0	0.056	0.042	0.102	0.105	0.085	0	0.04	0.039	
0.94	0.559	0.621	0.9	0.219	0.23	0.064	0.202	0.333	0.08	0.107	0.301	0.006	0.117	0.109	0.013	0.055	0.032	0.018	0.072	0.083	0.077	0	0.117	0.051	0.624	0.751	0.627	0.307	0.267	0.091	0.408	0.464	0.136	0.146	0.368	0.054	0.161	0.154	0.043	0.074	0.056	0.1	0.094	0.076	0.032	0.049	0.042
0.269	0.41	0.26	0.262	0.102	0.114	0.172	0	0.162	0.24	0.014	0.012	0.013	0.012	0.022	0.022	0.028	0.028	0.025	0.027	0.076	0.028	0.021	0.402	0.262	0.42	0.265	0.102	0.142	0.085	0.082	0.26	0.04	0.027	0.112	0.022	0.022	0.109	0.108	0.104	0.105	0.065	0.042	0.061	0.017	0.022	0.022	
0.119	0	0.002	0.103	0	0.043	0.075	0	0.077	0	0.079	0.086	0.111	-0.001	0.106	0.084	0	0.016	0.074	0.007	0	0.11	0.016	0.019	0.185	0.009	0.101	0.177	0.04	0.046	0.026	0.103	0.046	0.049	0.046	0.045	0.046	0.064	0.063	0.045	0.08	0.087	0.109	0.076	0.082	0.064	0.088	0.041
0.412	0.396	0.102	0.158	0.428	0.002	0.102	0.064	0.077	0.143	0.1	0.019	0.107	0.096	0.094	0.077	0	0.11	0.001	0.041	0.007	0.046	0.102	0.025	0.402	0.028	0.254	0.188	0.261	0.085	0.228	0.087	0.109	0.105	0.053	0.043	0.027	0.041	0.040	0.102	0.077	0.036	0.071	0.036	0.091	0.005	0.009	0

Aperture 07																		Aperture 08																														
Average Value of Time Sweep (Wtg)																		Average Value of Time Sweep (Wtg)																														
0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	
0.027	0.489	0.419	0	0.007	0.445	0.165	0.879	0.9	0.007	0.712	0.305	0	0.68	0.002	0	0.503	0.478	0	0.387	0.312	0	0.423	0.265	0.233	0.024	0.588	0.133	0.414	0.215	0.078	0.736	0.739	0.343	0.347	0.008	0	0.227	0.191	0	0.217	0.201	0	0.115	0.39	0	0.148	0.075	
0.078	0.475	0.541	0.288	0.176	0.265	0	0.188	0.194	0.008	0.15	0.283	0	0.083	0.048	0.081	0.062	0.088	0.041	0.064	0.039	0.078	0.087	0.046	0.033	0.338	0.423	0.007	0.158	0.309	0	0.118	0.113	0.002	0.108	0.079	0.042	0.109	0.002	0.087	0.108	0.004	0.089	0.05	0.004	0.047	0		
0.234	0.806	0.803	0.218	0.958	0.438	0.702	0.902	0.947	0.705	0.603	0.842	0.110	0.631	0.676	0.117	0.261	0.751	0.040	0.387	0.338	0.085	0.183	0.561	0.756	0.89	0.853	0.543	0.455	0.304	0.158	0.505	0.638	0.244	0.202	0.435	0.101	0.225	0.213	0.071	0.102	0.087	0.046	0.13	0.112	0.085	0.087	0.217	
0.242	0.807	0.871	0.240	0	0.078	0.674	0.172	0.732	0.46	0.047	0.202	0.202	0.007	0.487	0.480	0.020	0.301	0.164	0.042	0.067	0.081	0.073	0.016	0.212	0.480	0.200	0.007	0.007	0.170	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.387	0	0.482	0.208	0	0.064	0.041	0	0.087	0.104	0.071	0.071	0.046	0.046	0.053	0.043	0.055	0.046	0.001	0.053	0.011	0.047	0.05	0.044	0.203	0	0.116	0.210	0.08	0.002	0	0.088	0.056	0.064	0.085	0.001	0.041	0.041	0.102	0.052	0.006	0.045	0.009	0.006	0.05	0.002	0.039	0.04	
0.388	0.194	0.648	0.32	0.064	0.041	0.706	0.54	0.441	0.415	0.25	0.18	0.287	0.089	0.18	0.308	0.019	0.041	0.131	0.006	0	0.052	0.014	0.072	0.472	0.482	0.302	0.228	0.175	0.125	0.248	0.152	0.106	0.24	0.105	0.104	0.05	0	0.074	0.008	0	0.078	0.111	0.075	0.083	0.088	0.109	0.075	

Aperture 09																	Aperture 10																														
Average Value of Time Sweep (W/g)																	Average Value of Time Sweep (W/g)																														
0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138
0	0.388	0.398	0	0.743	0.175	0	0.593	0.454	0	0.855	0.343	0	0.628	0.526	0	0.851	0.721	0	0.855	0.583	0	0.708	0.521	0	0.328	0.246	0	0.815	0.162	0	0.310	0.247	0	0.855	0.513	0	0.282	0.167	0	0.548	0.413	0	0.271	0.167	0	0.519	0.119
1	7	13	19	25	31	37	43	49	55	61	67	73	79	85	91	97	103	109	115	121	127	133	139	0	7	13	19	25	31	37	43	49	55	61	67	73	79	85	91	97	103	109	115	121	127	133	139
0.24	0.633	0.614	0.207	0.233	0.245	0.071	0.32	0.389	0.215	0.089	0.243	0.1	0	0.077	0.087	0.141	0.064	0.104	0.056	0.039	0.103	0.088	0	0.315	0.029	0.003	0.16	0.348	0.204	0.048	0.09	0.01	0	0.254	0.245	0	0.211	0.173	0	0.203	0.154	0	0.111	0.079	0	0.178	0.056
2	8	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116	122	128	134	140	2	8	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116	122	128	134	140
0.116	0.877	0.835	0.13	0.914	0.571	0.274	0.821	0.911	0.277	0.665	0.763	0.288	0.914	0.942	0.268	0.943	0.875	0.161	0.943	0.893	0.138	0.855	0.911	0.071	0.747	0.45	0.088	0.803	0.721	0.088	0.880	0.589	0.103	0.916	0.838	0.1	0.932	0.843	0.068	0.911	0.888	0.108	0.905	0.885	0.069	0.866	0.587
3	9	15	21	27	33	39	45	51	57	63	69	75	81	87	93	99	105	111	117	123	129	135	141	3	9	15	21	27	33	39	45	51	57	63	69	75	81	87	93	99	105	111	117	123	129	135	141
0.077	0.282	0.281	0.227	0.088	0.057	0.058	0.061	0.061	0.233	0.074	0.071	0.245	0.087	0.082	0.268	0.111	0.057	0.054	0.053	0.061	0.061	0.059	0.059	0.123	0	0.288	0.216	0.057	0.078	0.142	0	0.065	0.216	0	0.065	0.122	0	0.239	0.188	0	0.048	0.108	0	0.263	0.183	0	0.028
4	10	16	22	28	34	40	46	52	58	64	70	76	82	88	94	100	106	112	118	124	130	136	142	4	10	16	22	28	34	40	46	52	58	64	70	76	82	88	94	100	106	112	118	124	130	136	142
0.5	0.177	0.226	0.204	0.058	0.084	0.154	0.108	0.136	0.237	0.079	0.084	0.097	0.111	0.061	0.041	0	0.084	0.085	0.111	0.073	0.06	0.085	0.085	0.208	0.22	0.268	0.194	0.065	0.127	0.288	0	0.279	0.460	0	0.151	0.083	0.122	0.068	0	0.144	0	0	0	0.072	0	0	0.118
5	11	17	23	29	35	41	47	53	59	65	71	77	83	89	95	101	107	113	119	125	131	137	143	5	11	17	23	29	35	41	47	53	59	65	71	77	83	89	95	101	107	113	119	125	131	137	143
0.241	0.182	0.789	0.637	0.063	0.792	0.872	0.267	0.882	0.763	0.14	0.757	0.794	0.204	0.77	0.863	0.141	0.485	0.608	0.169	0.583	0.727	0.061	0.204	0.279	0.087	0.702	0.565	0.943	0.762	0.265	0.123	0.749	0.722	0.05	0.739	0.416	0.138	0.802	0.765	0.048	0.706	0.47	0.146	0.78	0.743	0.947	0.772

Aperture 11															Aperture 12																																
Average Value of Time Sweep (MHz)															Average Value of Time Sweep (MHz)																																
0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84																		
0.183	0.321	0.382	0.152	0.194	0.248	0	0.239	0.216	0	0.118	0.383	0	0.088	0.032	0	0.081	0.054	0	0	0	0	0.058	0	0.302	0.028	0.386	0.178	0.303	0.216	0.002	0.388	0.082	0	0.287	0.023	0	0.173	0.104	0	0.178	0.132	0	0.26	0.071	0	0.119	0
0	0.179	0.234	0	0.082	0.33	0.044	0.081	0.055	0	0.085	0.055	0.054	0.039	-0.001	0.054	0.038	0.088	0.05	0	0.002	0.002	0.036	0	0.038	0.283	0.338	0	0.108	0.308	0.002	0.091	0.085	0	0.088	0.108	-0.001	0.038	0.043	0.014	0.055	0	0.041	0.033	0	0.049	0.038	0
0.338	0.415	0.482	0.888	0.148	0.188	0	0.202	0.228	0.047	0.074	0.241	0	0.094	0.053	0	0.04	0.141	0	0.051	0.042	0.046	0	0.084	0.014	0.018	0.738	0.083	0.338	0.272	0.104	0.438	0.484	0.106	0.107	0.378	0.038	0.176	0.153	0.038	0.081	0.087	0.047	0.104	0.087	0	0.054	0.172
0.201	0.182	0.282	0.288	0.088	0.052	0.102	0.048	0.102	0.232	0	0.075	0.032	0.042	0.002	0.047	0	0.038	0.054	0.032	0.04	0.038	0	0.045	0.407	0.282	0.402	0.282	0.091	0.402	0.102	0.042	0.041	0	0.013	0.082	0.007	0.102	0.138	0.038	0.031	0	0.05	0.032	0.033	0	0.003	
0.115	0	0.074	0.102	0	0.04	0.042	0.048	0.041	0.035	0.054	0	0.046	0	0.038	0.038	0.035	0.041	0.04	0	0.045	0	0.035	0.045	0.187	0.053	0.037	0.184	0	0.046	0.001	0.013	0.048	0.055	0	0.048	0.034	0.035	0	0.035	0.011	0.051	0	0.044	0.007	0.04	0.035	0
0.327	0.487	0.188	0.194	0.012	0.082	0.15	0	0.081	0.139	0.044	0	0.033	0.044	0	0.088	0.037	0.048	0.033	0	0.041	0.035	0	0.036	0.388	0.782	0.41	0.292	0.031	0.14	0.373	0.102	0.176	0.103	0.177	0.29	0.06	0.071	0.086	0.144	0.033	0	0.042	0.011	0.048	0.079	0	0.018

Aperture 13																	Aperture 14																															
Average Value of Time Sweep (Wtg)																	Average Value of Time Sweep (Wtg)																															
0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	
0.143	0.58	0.332	0.065	0.47	0.205	0.05	0.83	0.782	0	0.42	0.011	0	0.286	0.302	0	0.273	0.205	0	0.151	0.113	0	0.189	0.103	0.089	0.325	0.445	0.041	0.028	0.162	0.205	0.30	0.074	0.109	0.843	0.442	0.047	0.094	0.337	0	0.484	0.489	0	0.30	0.204	0	0.949	0.231	
7	7	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	
0	0.19	0.229	0	0.072	0.166	0	0.088	0.076	0	0.059	0.084	0	0	0	0	0	0	0	0	0	0	0	0	0	0.50	0.240	0.278	0	0.086	0.162	0	0.086	0.109	0	0.075	0.146	0.046	0.085	0.089	0.076	0.037	0.079	0.082	0.083	0	0.081	0.088	0.048
2	8	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116	122	128	134	140	2	8	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116	122	128	134	140	
0.504	0.737	0.888	0.41	0.542	0.332	0.207	0.081	0.783	0.332	0.256	0.472	0	0.279	0.253	0	0.158	0.113	0	0.162	0.142	0	0.080	0.263	0.253	0.023	0.033	0.243	0.917	0.411	0.008	0.91	0.886	0.756	0.46	0.550	0.08	0.521	0.551	0.088	0.237	0.87	0	0.286	0.289	0.044	0.15	0.487	
3	9	15	21	27	33	39	45	51	57	63	69	75	81	87	93	99	105	111	117	123	129	135	141	3	9	15	21	27	33	39	45	51	57	63	69	75	81	87	93	99	105	111	117	123	129	135	141	
0.202	0.127	0.567	0.207	0	0.028	0.028	0.116	0.042	0.070	0	0.010	0.123	0	0.211	0.202	0	0.162	0.054	0	0.10	0.083	0	0.147	0.202	0.071	0.082	0.240	0	0.241	0.082	0	0.022	0.033	0	0.240	0.207	0	0.402	0.402	0	0.244	0.106	0	0.261	0.037	0	0.202	
4	10	16	22	28	34	40	46	52	58	64	70	76	82	88	94	100	106	112	118	124	130	136	142	4	10	16	22	28	34	40	46	52	58	64	70	76	82	88	94	100	106	112	118	124	130	136	142	
0.238	0.001	0.118	0.202	0	0.022	0.042	0	0.063	0.075	0	0.055	0	0	0	0	0	0.043	0	0	0	0	0	0	0	0.389	0	0.185	0.210	0	0.081	0.06	0	0.08	0.111	0	0.088	0.094	0	0.035	0.04	0.041	0.054	0.046	0.05	0.045	0	0.082	0.051
5	11	17	23	29	35	41	47	53	59	65	71	77	83	89	95	101	107	113	119	125	131	137	143	5	11	17	23	29	35	41	47	53	59	65	71	77	83	89	95	101	107	113	119	125	131	137	143	
0.484	0.308	0.012	0.308	0.191	0.228	0.820	0.221	0.288	0.404	0.118	0.115	0.148	0	0.122	0.228	0	0.081	0.088	0	0.073	0.125	0	0.042	0.413	0.282	0.802	0.464	0.11	0.449	0.803	0.802	0.054	0.279	0.375	0.22	0.321	0.076	0.232	0.427	0.055	0.114	0.137	0	0.141	0.236	0	0.074	

Aperture 15																				Aperture 10																											
Average Value of Time Sweep (W/g)																				Average Value of Time Sweep (W/g)																											
0	5	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	0	5	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138
0.405	0.379	0.353	0.327	0.291	0.231	0	0.348	0.339	0	0.189	0.323	0	0.1	0.302	0	0.111	0.279	0	0.093	0.241	0	0.074	0	0	0.084	0.391	0	0.041	0.162	0	0.0215	0	0.0164	0	0.0142	0.076	0.0196	0	0.055	0	0.014	0	0.076	0.04	0	0.047	0
0.554	0.118	0.148	0.053	0.05	0.174	0	0.041	0.043	0.085	0.033	0.045	0.102	0.211	0.085	0.081	0.043	0.015	0.104	0.054	0.073	0.047	0.038	0.085	0	0.014	0	0.01	0	0.087	0	0.008	0.041	0	0.043	0.046	0.086	0.046	0.041	0.008	0.043	0.088	0.081	0.035	0	0.049	0.04	0
0.316	0.462	0.392	0.308	0.355	0.219	0.261	0.276	0.315	0.076	0.1	0.261	0.059	0.111	0.092	0.081	0.052	0.057	0.017	0.067	0.072	0.040	0	0.113	0	0.085	0.1	0.051	0	0.089	0.072	0.001	0.074	0.082	0.013	0.045	0	0.078	0.016	0.043	0.011	0.075	0	0.054	0.008	0	0.015	0
0.275	0.282	0.361	0.271	0.148	0.118	0.172	0	0.16	0.042	0	0.017	0	0.02	0.072	0.032	0	0.08	0.056	0	0.046	0.076	0.082	0.082	0	0.08	0.138	0	0.032	0.046	0.036	0.033	0.079	0.019	0.075	0.01	0	0.049	0.042	0.036	0.036	0	0.03	0.015	0.073	0		
0.138	0	0.082	0.182	0.051	0	0.045	0	0.042	0.041	0	0.044	0	0.003	0	0.015	0.081	0.054	0.04	0.083	0	0.041	0.001	0	0.042	0	0.047	0.082	0.088	0.081	0	0.08	0	0.015	0.081	0.014	0.045	0.002	0.017	0	0.022	0.048	0	0.046	0.041	0.082	0.014	0
0.573	0.786	0.36	0.238	0.386	0.087	0.213	0.082	0.11	0.203	0	0.044	0.051	0	0.052	0.082	0.077	0.055	0	0.078	0.055	0.051	0.08	0.043	0.114	0	0.047	0.079	0	0.072	0.008	0.037	0.075	0.051	0.089	0	0.072	0	0.076	0.038	0.011	0	0.037	0.036	0.001	0.074	0.055	0