



GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.35	32.38	32.10	33.50	23.35	23.38	23.10	24.50
GPRS 1 Tx slot	32.41	32.44	32.12	33.50	23.41	23.44	23.12	24.50
GPRS 2 Tx slots	29.07	29.48	29.08	30.50	23.07	23.48	23.08	24.50
GPRS 3 Tx slots	27.30	27.66	27.30	28.70	23.04	23.40	23.04	24.44
GPRS 4 Tx slots	25.94	26.29	25.90	27.50	22.94	23.29	22.90	24.50
EDGE 1 Tx slot	26.04	26.51	26.25	28.00	17.04	17.51	17.25	19.00
EDGE 2 Tx slots	23.13	23.65	23.31	25.00	17.13	17.65	17.31	19.00
EDGE 3 Tx slots	21.49	21.75	21.61	23.20	17.23	17.49	17.35	18.94
EDGE 4 Tx slots	20.09	20.50	20.21	22.00	17.09	17.50	17.21	19.00

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.69	29.25	29.22	30.50	20.69	20.25	20.22	21.50
GPRS 1 Tx slot	29.72	29.30	29.25	30.50	20.72	20.30	20.25	21.50
GPRS 2 Tx slots	26.63	26.45	26.04	27.50	20.63	20.45	20.04	21.50
GPRS 3 Tx slots	24.59	24.35	24.16	25.70	20.33	20.09	19.90	21.44
GPRS 4 Tx slots	23.36	23.78	23.36	24.50	20.36	20.78	20.36	21.50
EDGE 1 Tx slot	25.52	25.27	25.75	27.00	16.52	16.27	16.75	18.00
EDGE 2 Tx slots	22.57	22.54	22.45	24.00	16.57	16.54	16.45	18.00
EDGE 3 Tx slots	20.31	20.29	20.47	22.20	16.05	16.03	16.21	17.94
EDGE 4 Tx slots	19.05	19.10	19.02	21.00	16.05	16.10	16.02	18.00

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.71	32.77	32.60	33.50	23.71	23.77	23.60	24.50
GPRS 1 Tx slot	32.73	32.64	32.44	33.50	23.73	23.64	23.44	24.50
GPRS 2 Tx slots	29.34	29.78	29.50	30.50	23.34	23.78	23.50	24.50
GPRS 3 Tx slots	27.15	27.97	27.83	28.70	22.89	23.71	23.57	24.44
GPRS 4 Tx slots	25.70	26.60	26.46	27.50	22.70	23.60	23.46	24.50
EDGE 1 Tx slot	26.51	26.76	26.57	28.50	17.51	17.76	17.57	19.50
EDGE 2 Tx slots	23.59	23.55	23.61	25.50	17.59	17.55	17.61	19.50
EDGE 3 Tx slots	21.73	21.91	21.75	23.70	17.47	17.65	17.49	19.44
EDGE 4 Tx slots	20.65	20.61	20.55	22.50	17.65	17.61	17.55	19.50

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	30.10	29.70	29.67	30.50	21.10	20.70	20.67	21.50
GPRS 1 Tx slot	30.11	29.91	29.73	30.50	21.11	20.91	20.73	21.50
GPRS 2 Tx slots	27.00	26.75	26.64	27.50	21.00	20.75	20.64	21.50
GPRS 3 Tx slots	24.85	24.90	24.77	25.70	20.59	20.64	20.51	21.44
GPRS 4 Tx slots	23.60	23.44	23.00	24.50	20.60	20.44	20.00	21.50
EDGE 1 Tx slot	26.43	26.29	26.39	27.50	17.43	17.29	17.39	18.50
EDGE 2 Tx slots	22.74	22.58	22.59	24.50	16.74	16.58	16.59	18.50
EDGE 3 Tx slots	20.74	20.84	20.82	22.70	16.48	16.58	16.56	18.44
EDGE 4 Tx slots	19.87	19.55	19.74	21.50	16.87	16.55	16.74	18.50

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	28.74	29.15	29.07	30.50	19.74	20.15	20.07	21.50
GPRS 1 Tx slot	28.72	29.14	29.05	30.50	20.69	20.90	20.56	21.50
GPRS 2 Tx slots	25.69	26.17	26.05	27.50	19.69	20.17	20.05	21.50
GPRS 3 Tx slots	23.91	24.33	24.26	25.70	19.65	20.07	20.00	21.44
GPRS 4 Tx slots	22.76	23.10	23.04	24.50	19.76	20.10	20.04	21.50
EDGE 1 Tx slot	26.51	26.76	26.57	27.00	17.51	17.76	17.57	18.00
EDGE 2 Tx slots	23.59	23.55	23.61	24.00	17.59	17.55	17.61	18.00
EDGE 3 Tx slots	21.73	21.91	21.75	22.20	17.47	17.65	17.49	17.94
EDGE 4 Tx slots	20.65	20.61	20.55	21.00	17.65	17.61	17.55	18.00

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.13	27.98	28.20	29.50	19.56	19.42	19.34	20.50
GPRS 1 Tx slot	28.13	27.98	28.20	29.50	19.13	18.98	19.20	20.50
GPRS 2 Tx slots	25.15	25.07	25.17	26.50	19.15	19.07	19.17	20.50
GPRS 3 Tx slots	23.38	23.19	23.39	24.70	19.12	18.93	19.13	20.44
GPRS 4 Tx slots	22.11	22.06	22.19	23.50	19.11	19.06	19.19	20.50
EDGE 1 Tx slot	26.43	26.29	26.39	27.50	17.43	17.29	17.39	18.50
EDGE 2 Tx slots	22.74	22.58	22.59	24.50	16.74	16.58	16.59	18.50
EDGE 3 Tx slots	20.74	20.84	20.82	22.70	16.48	16.58	16.56	18.44
EDGE 4 Tx slots	19.87	19.55	19.74	21.50	16.87	16.55	16.74	18.50

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.71	32.77	32.60	33.50	23.71	23.77	23.60	24.50
GPRS 1 Tx slot	32.35	32.38	32.10	33.50	23.35	23.38	23.10	24.50
GPRS 2 Tx slots	29.34	29.78	29.50	30.50	23.34	23.78	23.50	24.50
GPRS 3 Tx slots	27.15	27.97	27.83	28.70	22.89	23.71	23.57	24.44
GPRS 4 Tx slots	25.70	26.60	26.46	27.50	22.70	23.60	23.46	24.50
EDGE 1 Tx slot	26.51	26.76	26.57	28.50	17.51	17.76	17.57	19.50
EDGE 2 Tx slots	23.59	23.55	23.61	25.50	17.59	17.55	17.61	19.50
EDGE 3 Tx slots	21.73	21.91	21.75	23.70	17.47	17.65	17.49	19.44
EDGE 4 Tx slots	20.65	20.61	20.55	22.50	17.65	17.61	17.55	19.50

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.69	29.25	29.22	30.50	20.69	20.25	20.22	21.50
GPRS 1 Tx slot	29.69	29.25	29.22	30.50	20.69	20.25	20.22	21.50
GPRS 2 Tx slots	27.00	26.75	26.64	27.50	21.00	20.75	20.64	21.50
GPRS 3 Tx slots	24.85	24.90	24.77	25.70	20.59	20.64	20.51	21.44
GPRS 4 Tx slots	23.60	23.44	23.00	24.50	20.60	20.44	20.00	21.50
EDGE 1 Tx slot	26.43	26.29	26.39	27.50	17.43	17.29	17.39	18.50
EDGE 2 Tx slots	22.74	22.58	22.59	24.50	16.74	16.58	16.59	18.50
EDGE 3 Tx slots	20.74	20.84	20.82	22.70	16.48	16.58	16.56	18.44
EDGE 4 Tx slots	19.87	19.55	19.74	21.50	16.87	16.55	16.74	18.50

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.71	32.77	32.60	33.50	23.71	23.77	23.60	24.50
GPRS 1 Tx slot	32.73	32.64	32.44	33.50	23.73	23.64	23.44	24.50
GPRS 2 Tx slots	29.34	29.78	29.50	30.50	23.34	23.78	23.50	24.50
GPRS 3 Tx slots	27.15	27.97	27.83	28.70	22.89	23.71	23.57	24.44
GPRS 4 Tx slots	25.70	26.60	26.46	27.50	22.70	23.60	23.46	24.50
EDGE 1 Tx slot	26.51	26.76	26.57	28.00	17.51	17.76	17.57	19.00
EDGE 2 Tx slots	23.59	23.55	23.61	25.00	17.59	17.55	17.61	19.00
EDGE 3 Tx slots	21.73	21.91	21.75	23.20	17.47	17.65	17.49	18.94
EDGE 4 Tx slots	20.65	20.61	20.55	22.00	17.65	17.61	17.55	19.00

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	25.71	25.60	25.83	26.50	16.71	16.60	16.83	17.50
GPRS 1 Tx slot	25.89	25.70	26.11	26.50	16.89	16.70	17.11	17.50
GPRS 2 Tx slots	22.96	23.46	22.83	23.50	16.96	17.46	16.83	17.50
GPRS 3 Tx slots	20.97	21.46	20.89	21.70	16.71	17.20	16.63	17.44
GPRS 4 Tx slots	19.69	19.92	19.07	20.50	16.69	16.92	16.07	17.50
EDGE 1 Tx slot	21.70	21.93	22.44	23.50	12.70	12.93	13.44	14.50
EDGE 2 Tx slots	19.24	18.80	18.73	20.50	13.24	12.80	12.73	14.50
EDGE 3 Tx slots	17.11	16.84	16.75	18.70	12.85	12.58	12.49	14.44
EDGE 4 Tx slots	15.70	15.73	15.66	17.50	12.70	12.73	12.66	14.50

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.71	32.77	32.60	33.50	23.71	23.77	23.60	24.50
GPRS 1 Tx slot	32.73	32.64	32.44	33.50	23.73	23.64	23.44	24.50
GPRS 2 Tx slots	29.34	29.78	29.50	30.50	23.34	23.78	23.50	24.50
GPRS 3 Tx slots	27.15	27.97	27.83	28.70	22.89	23.71	23.57	24.44
GPRS 4 Tx slots	25.70	26.60	26.46	27.50	22.70	23.60	23.46	24.50
EDGE 1 Tx slot	26.51	26.76	26.57	28.50	17.51	17.76	17.57	19.50
EDGE 2 Tx slots	23.59	23.55	23.61	25.50	17.59	17.55	17.61	19.50
EDGE 3 Tx slots	21.73	21.91	21.75	23.70	17.47	17.65	17.49	19.44
EDGE 4 Tx slots	20.65	20.61	20.55	22.50	17.65	17.61	17.55	19.50

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	25.59	25.62	25.68	26.50	16.59	16.62	16.68	17.50
GPRS 1 Tx slot	25.81	25.71	25.83	26.50	16.81	16.71	16.83	17.50
GPRS 2 Tx slots	22.86	22.83	22.35	23.50	16.86	16.83	16.35	17.50
GPRS 3 Tx slots	21.06	21.64	20.73	21.70	16.80	17.38	16.47	17.44
GPRS 4 Tx slots	19.68	19.98	19.33	20.50	16.68	16.98	16.33	17.50
EDGE 1 Tx slot	21.77	22.27	22.03	23.50	12.77	13.27	13.03	14.50
EDGE 2 Tx slots	18.62	19.24	18.60	20.50	12.62	13.24	12.60	14.50
EDGE 3 Tx slots	17.00	17.08	17.49	18.70	12.74	12.82	13.23	14.44
EDGE 4 Tx slots	15.61	15.56	15.63	17.50	12.61	12.56	12.63	14.50



Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	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	23.88	23.76	23.58	25.00	23.81	23.75	23.60	25.00	23.77	23.81	23.80	25.00
3GPP Rel 99	RMC 12.2Kbps	23.90	23.80	23.62	25.00	23.87	23.80	23.65	25.00	23.81	23.86	23.85	25.00
3GPP Rel 6	HSDPA Subtest-1	22.92	22.83	22.67	24.00	22.89	22.80	22.68	24.00	22.82	22.89	22.85	24.00
3GPP Rel 6	HSDPA Subtest-2	22.94	22.82	22.68	24.00	22.88	22.80	22.69	24.00	22.82	22.90	22.87	24.00
3GPP Rel 6	HSDPA Subtest-3	22.40	22.34	22.17	23.50	22.35	22.27	22.21	23.50	22.33	22.38	22.39	23.50
3GPP Rel 6	HSDPA Subtest-4	22.46	22.30	22.18	23.50	22.37	22.32	22.20	23.50	22.32	22.42	22.31	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.83	22.82	22.58	24.00	22.88	22.79	22.60	24.00	22.75	22.86	22.77	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.84	22.73	22.66	24.00	22.78	22.73	22.64	24.00	22.75	22.82	22.82	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.34	22.29	22.09	23.50	22.31	22.26	22.12	23.50	22.25	22.34	22.31	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.40	22.29	22.15	23.50	22.28	22.31	22.12	23.50	22.25	22.41	22.22	23.50
3GPP Rel 6	HSUPA Subtest-1	22.96	22.84	22.65	24.00	22.88	22.76	22.57	24.00	22.82	22.90	22.77	24.00
3GPP Rel 6	HSUPA Subtest-2	20.86	20.80	20.69	22.00	20.90	20.81	20.83	22.00	20.94	20.84	20.71	22.00
3GPP Rel 6	HSUPA Subtest-3	21.90	21.78	21.69	23.00	21.87	21.84	21.31	23.00	21.90	21.97	21.84	23.00
3GPP Rel 6	HSUPA Subtest-4	20.96	20.88	20.72	22.00	20.89	20.86	20.73	22.00	20.85	20.93	20.84	22.00
3GPP Rel 6	HSUPA Subtest-5	22.90	22.80	22.70	24.00	23.00	22.90	22.70	24.00	22.80	22.90	22.50	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.57	20.53	20.01	21.50	20.46	20.25	20.31	21.50	20.43	20.17	20.19	21.50



Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	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	24.11	24.08	24.16	25.00	24.08	24.10	24.11	25.00	24.13	24.11	24.10	25.00
3GPP Rel 99	RMC 12.2Kbps	24.30	24.20	24.14	25.00	24.14	24.21	24.10	25.00	24.17	24.09	24.06	25.00
3GPP Rel 6	HSDPA Subtest-1	23.36	23.29	23.14	24.00	23.21	23.14	23.10	24.00	23.16	23.24	23.11	24.00
3GPP Rel 6	HSDPA Subtest-2	23.39	23.25	23.13	24.00	23.22	23.14	23.11	24.00	23.19	23.26	23.16	24.00
3GPP Rel 6	HSDPA Subtest-3	22.86	22.79	22.61	23.50	22.72	22.63	22.63	23.50	22.69	22.80	22.63	23.50
3GPP Rel 6	HSDPA Subtest-4	22.86	22.75	22.63	23.50	22.74	22.61	22.64	23.50	22.70	22.75	22.62	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.33	23.24	23.10	24.00	23.14	23.09	23.08	24.00	23.14	23.24	23.05	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.30	23.17	23.13	24.00	23.18	23.11	23.05	24.00	23.10	23.25	23.07	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.84	22.73	22.53	23.50	22.72	22.61	22.53	23.50	22.66	22.75	22.61	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.85	22.66	22.54	23.50	22.70	22.57	22.54	23.50	22.63	22.74	22.56	23.50
3GPP Rel 6	HSUPA Subtest-1	23.43	23.23	23.17	24.00	23.29	23.07	23.05	24.00	23.12	23.27	23.09	24.00
3GPP Rel 6	HSUPA Subtest-2	21.25	21.22	21.10	22.00	21.29	21.07	21.01	22.00	21.18	21.15	21.01	22.00
3GPP Rel 6	HSUPA Subtest-3	22.35	22.28	22.06	23.00	22.26	22.05	22.26	23.00	22.19	22.20	22.14	23.00
3GPP Rel 6	HSUPA Subtest-4	21.37	21.22	21.18	22.00	21.20	21.16	21.16	22.00	21.25	21.17	21.18	22.00
3GPP Rel 6	HSUPA Subtest-5	23.30	23.30	23.00	24.00	23.20	23.10	22.70	24.00	23.20	23.20	23.10	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.90	20.65	20.67	21.50	20.87	20.43	20.70	21.50	20.80	20.91	20.54	21.50

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	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	18.83	18.75	18.67	20.00	18.77	18.58	18.59	20.00	19.92	19.95	19.80	21.00
3GPP Rel 99	RMC 12.2Kbps	18.84	18.70	18.62	20.00	18.87	18.80	18.65	20.00	19.91	19.98	19.85	21.00
3GPP Rel 6	HSDPA Subtest-1	17.86	17.73	17.67	19.00	17.89	17.80	17.68	19.00	18.92	19.01	18.85	20.00
3GPP Rel 6	HSDPA Subtest-2	17.88	17.72	17.68	19.00	17.88	17.80	17.69	19.00	18.92	19.02	18.87	20.00
3GPP Rel 6	HSDPA Subtest-3	17.34	17.24	17.17	18.50	17.35	17.27	17.21	18.50	18.43	18.50	18.39	19.50
3GPP Rel 6	HSDPA Subtest-4	17.40	17.20	17.18	18.50	17.37	17.32	17.20	18.50	18.42	18.54	18.31	19.50
3GPP Rel 8	DC-HSDPA Subtest-1	17.77	17.72	17.58	19.00	17.88	17.79	17.60	19.00	18.85	18.98	18.77	20.00
3GPP Rel 8	DC-HSDPA Subtest-2	15.78	15.63	15.66	17.00	15.78	15.73	15.64	17.00	16.85	16.94	16.82	18.00
3GPP Rel 8	DC-HSDPA Subtest-3	16.78	16.69	16.59	18.00	16.81	16.76	16.62	18.00	17.85	17.96	17.81	19.00
3GPP Rel 8	DC-HSDPA Subtest-4	15.84	15.69	15.65	17.00	15.78	15.81	15.62	17.00	16.85	17.03	16.72	18.00
3GPP Rel 6	HSUPA Subtest-1	17.90	17.74	17.65	19.00	17.90	17.81	17.83	19.00	19.04	18.96	18.71	20.00
3GPP Rel 6	HSUPA Subtest-2	17.80	17.70	17.69	19.00	17.87	17.84	17.31	19.00	19.00	19.09	18.84	20.00
3GPP Rel 6	HSUPA Subtest-3	17.84	17.68	17.69	19.00	17.39	17.36	17.23	19.00	18.45	18.55	18.34	20.00
3GPP Rel 6	HSUPA Subtest-4	17.40	17.28	17.22	18.50	17.50	17.40	17.20	18.50	18.40	18.52	18.00	19.50
3GPP Rel 6	HSUPA Subtest-5	17.34	17.20	17.20	18.50	17.36	17.25	17.22	18.50	18.46	18.27	18.05	19.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	14.93	14.68	14.56	16.00	15.11	14.86	14.98	16.00	16.14	16.18	15.78	17.00

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	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	23.80	23.84	23.56	25.00	23.85	23.76	23.59	25.00	23.79	23.74	23.80	25.00
3GPP Rel 99	RMC 12.2Kbps	23.90	23.80	23.62	25.00	23.87	23.80	23.65	25.00	23.81	23.86	23.85	25.00
3GPP Rel 6	HSDPA Subtest-1	23.36	23.29	23.14	24.00	23.21	23.14	23.10	24.00	23.16	23.24	23.11	24.00
3GPP Rel 6	HSDPA Subtest-2	23.39	23.25	23.13	24.00	23.22	23.14	23.11	24.00	23.19	23.26	23.16	24.00
3GPP Rel 6	HSDPA Subtest-3	22.86	22.79	22.61	23.50	22.72	22.63	22.63	23.50	22.69	22.80	22.63	23.50
3GPP Rel 6	HSDPA Subtest-4	22.86	22.75	22.63	23.50	22.74	22.61	22.64	23.50	22.70	22.75	22.62	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.33	23.24	23.10	24.00	23.14	23.09	23.08	24.00	23.14	23.24	23.05	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.30	23.17	23.13	24.00	23.18	23.11	23.05	24.00	23.10	23.25	23.07	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.84	22.73	22.53	23.50	22.72	22.61	22.53	23.50	22.66	22.75	22.61	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.85	22.66	22.54	23.50	22.70	22.57	22.54	23.50	22.63	22.74	22.56	23.50
3GPP Rel 6	HSUPA Subtest-1	23.43	23.23	23.17	24.00	23.29	23.07	23.05	24.00	23.12	23.27	23.09	24.00
3GPP Rel 6	HSUPA Subtest-2	21.25	21.22	21.10	22.00	21.29	21.07	21.01	22.00	21.18	21.15	21.01	22.00
3GPP Rel 6	HSUPA Subtest-3	22.35	22.28	22.06	23.00	22.26	22.05	22.26	23.00	22.19	22.20	22.14	23.00
3GPP Rel 6	HSUPA Subtest-4	21.37	21.22	21.18	22.00	21.20	21.16	21.16	22.00	21.25	21.17	21.18	22.00
3GPP Rel 6	HSUPA Subtest-5	23.30	23.30	23.00	24.00	23.20	23.10	22.70	24.00	23.20	23.20	23.10	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.81	20.92	20.76	21.50	20.71	20.56	20.56	21.50	20.63	20.91	20.59	21.50

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	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	20.44	20.38	20.27	21.00	19.42	19.35	19.25	20.00	24.15	24.05	24.10	25.00
3GPP Rel 99	RMC 12.2Kbps	20.48	20.34	20.23	21.00	19.44	19.31	19.20	20.00	24.17	24.09	24.06	25.00
3GPP Rel 6	HSDPA Subtest-1	19.54	19.43	19.33	20.00	18.51	18.24	18.20	19.00	23.16	23.24	23.11	24.00
3GPP Rel 6	HSDPA Subtest-2	19.57	19.39	19.32	20.00	18.52	18.24	18.21	19.00	23.19	23.26	23.16	24.00
3GPP Rel 6	HSDPA Subtest-3	19.04	18.93	18.80	19.50	18.02	17.73	17.73	18.50	22.69	22.80	22.63	23.50
3GPP Rel 6	HSDPA Subtest-4	19.04	18.89	18.82	19.50	18.04	17.71	17.74	18.50	22.70	22.75	22.62	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	19.51	19.38	19.29	20.00	18.44	18.19	18.18	19.00	23.14	23.24	23.05	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	17.48	17.31	17.32	18.00	16.48	16.21	16.15	17.00	23.10	23.25	23.07	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	18.52	18.37	18.22	19.00	17.52	17.21	17.13	18.00	22.66	22.75	22.61	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	17.53	17.30	17.23	18.00	16.50	16.17	16.14	17.00	22.63	22.74	22.56	23.50
3GPP Rel 6	HSUPA Subtest-1	19.43	19.36	19.29	20.00	18.59	18.17	18.11	19.00	23.12	23.27	23.09	24.00
3GPP Rel 6	HSUPA Subtest-2	19.53	19.42	19.25	20.00	18.56	18.15	18.36	19.00	21.18	21.15	21.01	22.00
3GPP Rel 6	HSUPA Subtest-3	19.05	18.86	18.87	20.00	18.00	17.76	17.76	19.00	22.19	22.20	22.14	23.00
3GPP Rel 6	HSUPA Subtest-4	18.98	18.94	18.69	19.50	18.00	17.70	17.30	18.50	21.25	21.17	21.18	22.00
3GPP Rel 6	HSUPA Subtest-5	18.80	18.81	18.61	19.50	17.71	17.65	17.27	18.50	23.20	23.20	23.10	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.45	16.46	16.43	17.00	15.45	15.09	15.09	16.00	20.22	20.47	20.05	21.50

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	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	17.39	17.31	17.18	18.00	18.42	18.24	18.25	19.00	24.15	24.05	24.10	25.00
3GPP Rel 99	RMC 12.2Kbps	17.40	17.31	17.18	18.00	18.43	18.29	18.21	19.00	24.17	24.09	24.06	25.00
3GPP Rel 6	HSDPA Subtest-1	16.46	16.40	16.28	17.00	17.50	17.22	17.21	18.00	23.16	23.24	23.11	24.00
3GPP Rel 6	HSDPA Subtest-2	16.49	16.36	16.27	17.00	17.51	17.22	17.22	18.00	23.19	23.26	23.16	24.00
3GPP Rel 6	HSDPA Subtest-3	15.96	15.90	15.75	16.50	17.01	16.71	16.74	17.50	22.69	22.80	22.63	23.50
3GPP Rel 6	HSDPA Subtest-4	15.96	15.86	15.77	16.50	17.03	16.69	16.75	17.50	22.70	22.75	22.62	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	16.43	16.35	16.24	17.00	17.43	17.17	17.19	18.00	23.14	23.24	23.05	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	14.40	14.28	14.27	15.00	15.47	15.19	15.16	16.00	23.10	23.25	23.07	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	15.44	15.34	15.17	16.00	16.51	16.19	16.14	17.00	22.66	22.75	22.61	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	14.45	14.27	14.18	15.00	15.49	15.15	15.15	16.00	22.63	22.74	22.56	23.50
3GPP Rel 6	HSUPA Subtest-1	16.35	16.33	16.24	17.00	17.58	17.15	17.12	18.00	23.12	23.27	23.09	24.00
3GPP Rel 6	HSUPA Subtest-2	16.45	16.39	16.20	17.00	17.55	17.13	17.37	18.00	21.18	21.15	21.01	22.00
3GPP Rel 6	HSUPA Subtest-3	15.97	15.83	15.82	17.00	16.99	16.74	16.77	18.00	22.19	22.20	22.14	23.00
3GPP Rel 6	HSUPA Subtest-4	15.90	15.91	15.64	16.50	16.99	16.68	16.31	17.50	21.25	21.17	21.18	22.00
3GPP Rel 6	HSUPA Subtest-5	15.78	15.65	15.54	16.50	16.77	16.51	16.11	17.50	23.20	23.20	23.10	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	13.44	13.18	13.13	14.00	14.74	14.23	14.32	15.00	19.98	20.12	20.34	21.50



Band 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. /	Power Middle Ch. /	Power High Ch. /	Tune-up limit (dBm)	MPR (dB)		
Channel				1870.0	1880.0	1900.0				
Frequency (MHz)				1860	1880	1900				
20	QPSK	1	0	23.34	23.61	23.34	25	0		
20	QPSK	1	49	23.51	23.37	23.30				
20	QPSK	1	99	23.41	23.39	23.22				
20	QPSK	50	0	22.48	22.69	22.42	24	1		
20	QPSK	50	24	22.67	22.44	22.43				
20	QPSK	50	50	22.52	22.42	22.47				
20	16QAM	1	0	22.85	22.60	22.64	24	1		
20	16QAM	1	49	22.87	22.78	22.71				
20	16QAM	1	99	22.74	22.69	22.56				
20	16QAM	50	0	21.71	21.37	21.43	23	2		
20	16QAM	50	24	21.67	21.46	21.46				
20	16QAM	50	50	21.56	21.41	21.45				
20	16QAM	100	0	21.62	21.40	21.38	23	2		
20	64QAM	1	0	21.85	21.46	21.60				
20	64QAM	1	49	21.69	21.60	21.49				
20	64QAM	1	99	21.58	21.52	21.47	22	3		
20	64QAM	50	0	20.67	20.43	20.40				
20	64QAM	50	24	20.62	20.48	20.44				
20	64QAM	50	50	20.54	20.48	20.46	22			
20	64QAM	100	0	20.68	20.47	20.46				
Channel <td>1867.5</td> <td>1880.0</td> <td>1902.5</td> <td>Tune-up limit (dBm)</td> <td>MPR (dB)</td> <td colspan="2"></td>				1867.5	1880.0	1902.5			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5				
15	QPSK	1	0	23.52	23.29	23.26	25	0		
15	QPSK	1	37	23.47	23.29	23.25				
15	QPSK	1	74	23.35	23.37	23.22				
15	QPSK	36	0	22.66	22.29	22.40	24	1		
15	QPSK	36	20	22.66	22.42	22.40				
15	QPSK	36	39	22.46	22.36	22.45				
15	QPSK	75	0	22.54	22.32	22.45	24	1		
15	16QAM	1	0	22.77	22.57	22.63				
15	16QAM	1	37	22.67	22.73	22.69				
15	16QAM	1	74	22.65	22.68	22.53	23	2		
15	16QAM	36	0	21.61	21.29	21.39				
15	16QAM	36	20	21.59	21.38	21.38				
15	16QAM	36	39	21.56	21.38	21.36	23	2		
15	16QAM	75	0	21.56	21.37	21.30				
15	64QAM	1	0	21.80	21.44	21.50				
15	64QAM	1	37	21.65	21.52	21.49	23	2		
15	64QAM	1	74	21.48	21.47	21.43				
15	64QAM	36	0	20.60	20.41	20.32				
15	64QAM	36	20	20.56	20.46	20.40	22	3		
15	64QAM	36	39	20.44	20.45	20.46				
15	64QAM	75	0	20.63	20.44	20.36				
Channel <td>1865.0</td> <td>1880.0</td> <td>1900.0</td> <td>Tune-up limit (dBm)</td> <td>MPR (dB)</td> <td colspan="2"></td>				1865.0	1880.0	1900.0	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	0	23.60	23.25	23.28	25	0		
10	QPSK	1	25	23.47	23.32	23.27				
10	QPSK	1	49	23.38	23.32	23.19				
10	QPSK	25	0	22.68	22.23	22.34	24	1		
10	QPSK	25	12	22.59	22.24	22.42				
10	QPSK	25	25	22.49	22.37	22.45				
10	QPSK	50	0	22.53	22.34	22.44	24	1		
10	16QAM	1	0	22.80	22.56	22.54				
10	16QAM	1	25	22.79	22.72	22.65				
10	16QAM	1	49	22.65	22.58	22.53	23	2		
10	16QAM	25	0	21.61	21.29	21.38				
10	16QAM	25	12	21.57	21.45	21.44				
10	16QAM	25	25	21.55	21.41	21.40	23	2		
10	16QAM	50	0	21.54	21.40	21.30				
10	64QAM	1	0	21.75	21.38	21.50				
10	64QAM	1	25	21.64	21.50	21.43	22	3		
10	64QAM	1	49	21.57	21.43	21.47				
10	64QAM	25	0	20.60	20.33	20.40				
10	64QAM	25	12	20.57	20.45	20.41	22	3		
10	64QAM	25	25	20.45	20.39	20.43				
10	64QAM	50	0	20.67	20.39	20.36				
Channel <td>1862.5</td> <td>1880.0</td> <td>1907.5</td> <td>Tune-up limit (dBm)</td> <td>MPR (dB)</td> <td colspan="2"></td>				1862.5	1880.0	1907.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1880	1907.5				
5	QPSK	1	0	23.55	23.25	23.24	25	0		
5	QPSK	1	12	23.49	23.27	23.27				
5	QPSK	1	24	23.38	23.37	23.14				
5	QPSK	12	0	22.66	22.24	22.32	24	1		
5	QPSK	12	7	22.67	22.41	22.42				
5	QPSK	12	13	22.45	22.37	22.47				
5	QPSK	25	0	22.57	22.37	22.44	24	1		
5	16QAM	1	0	22.85	22.59	22.61				
5	16QAM	1	12	22.86	22.70	22.69				
5	16QAM	1	24	22.64	22.62	22.55	23	2		
5	16QAM	12	0	21.70	21.36	21.34				
5	16QAM	12	7	21.60	21.42	21.39				
5	16QAM	12	13	21.53	21.34	21.37	23	2		
5	16QAM	25	0	21.62	21.32	21.31				
5	64QAM	1	0	21.83	21.42	21.52				
5	64QAM	1	12	21.65	21.53	21.46	22	3		
5	64QAM	1	24	21.58	21.46	21.38				
5	64QAM	12	0	20.65	20.43	20.32				
5	64QAM	12	7	20.52	20.40	20.40	22	3		
5	64QAM	12	13	20.47	20.48	20.39				
5	64QAM	25	0	20.61	20.41	20.45				
Channel <td>1861.5</td> <td>1880.0</td> <td>1909.5</td> <td>Tune-up limit (dBm)</td> <td>MPR (dB)</td> <td colspan="2"></td>				1861.5	1880.0	1909.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1851.5	1880	1909.5				
3	QPSK	1	0	23.58	23.26	23.34	25	0		
3	QPSK	1	8	23.47	23.32	23.24				
3	QPSK	1	14	23.35	23.33	23.12				
3	QPSK	8	0	22.66	22.27	22.35	24	1		
3	QPSK	8	4	22.61	22.39	22.36				
3	QPSK	8	7	22.51	22.37	22.38				
3	QPSK	15	0	22.56	22.37	22.41	24	1		
3	16QAM	1	0	22.82	22.59	22.57				
3	16QAM	1	8	22.79	22.69	22.65				
3	16QAM	1	14	22.65	22.62	22.50	23	2		
3	16QAM	8	0	21.68	21.37	21.41				
3	16QAM	8	4	21.61	21.44	21.38				
3	16QAM	8	7	21.47	21.37	21.38	22	3		
3	16QAM	15	0	21.54	21.39	21.30				
3	64QAM	1	0	21.81	21.39	21.55				
3	64QAM	1	8	21.68	21.51	21.41	22	3		
3	64QAM	1	14	21.58	21.52	21.41				
3	64QAM	8	0	20.60	20.35	20.30				
3	64QAM	8	4	20.54	20.41	20.41	22	3		
3	64QAM	8	7	20.44	20.45	20.39				
3	64QAM	15	0	20.58	20.38	20.38				
Channel <td>1860.7</td> <td>1880.0</td> <td>1909.3</td> <td>Tune-up limit (dBm)</td> <td>MPR (dB)</td> <td colspan="2"></td>				1860.7	1880.0	1909.3	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1850.7	1880	1909.3				
1.4	QPSK	1	0	23.56	23.26	23.31	25	0		
1.4	QPSK	1	3	23.45	23.27	23.21				
1.4	QPSK	1	6	23.34	23.37	23.22				
1.4	QPSK	3	0	23.51	23.24	23.29	24	1		
1.4	QPSK	3	3	23.44	23.26	23.11				
1.4	QPSK	3	6	23.32	23.29	23.22				
1.4	QPSK	1	0	22.85	22.60	22.59	24	1		
1.4	16QAM	1	0	22.81	22.72	22.71				
1.4	16QAM	1	5	22.65	22.59	22.53				
1.4	16QAM	3	0	22.80	22.53	22.59	23	2		
1.4	16QAM	3	1	22.80	22.69	22.66				
1.4	16QAM	3	3	22.55	22.55	22.43				
1.4	16QAM	3	6	21.69	21.40	21.36	23	2		
1.4	64QAM	1	0	21.84	21.40	21.59				
1.4	64QAM	1	3	21.64	21.51	21.40				
1.4	64QAM	1	6	21.52	21.42	21.42	23	2		
1.4	64QAM	3	0	21.79	21.40	21.50				
1.4	64QAM	3	1	21.59	21.50	21.36				
1.4	64QAM	3	3	21.55	21.41	21.39	22	3		
1.4	64QAM	6	0	20.69	20.45	20.36				
1.4	64QAM	6	3	20.59	20.45	20.36				



Band 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)	
Channel				2000	2017.5	2030			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	23.44	23.59	23.44	25	0	
20	QPSK	1	49	23.46	23.37	23.30			
20	QPSK	1	99	23.44	23.45	23.25			
20	QPSK	50	0	22.68	22.68	22.49	24	1	
20	QPSK	50	24	22.66	22.62	22.43			
20	QPSK	50	50	22.57	22.52	22.41			
20	QPSK	100	0	22.62	22.55	22.41	24	1	
20	16QAM	1	0	22.87	22.87	22.75			
20	16QAM	1	49	22.73	22.76	22.58			
20	16QAM	1	99	22.85	22.71	22.67	23	2	
20	16QAM	50	0	21.63	21.67	21.52			
20	16QAM	50	24	21.67	21.62	21.50			
20	16QAM	50	50	21.63	21.55	21.36	23	2	
20	64QAM	1	0	21.16	21.75	21.43			
20	64QAM	1	49	21.75	21.54	21.63			
20	64QAM	1	99	21.58	21.68	21.56	22	3	
20	64QAM	50	0	20.59	20.63	20.51			
20	64QAM	50	24	20.60	20.62	20.41			
20	64QAM	50	50	20.60	20.56	20.44	22	3	
20	64QAM	100	0	20.68	20.64	20.41			
Channel				2000	2017.5	2030			
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	23.39	23.57	23.44	25	0	
15	QPSK	1	37	23.38	23.31	23.22			
15	QPSK	1	74	23.41	23.41	23.17			
15	QPSK	36	0	22.64	22.61	22.44	24	1	
15	QPSK	36	20	22.59	22.56	22.39			
15	QPSK	36	39	22.53	22.51	22.39			
15	QPSK	75	0	22.53	22.46	22.34	23	2	
15	16QAM	1	0	22.86	22.79	22.72			
15	16QAM	1	37	22.66	22.72	22.52			
15	16QAM	1	74	22.79	22.71	22.64	23	2	
15	16QAM	36	0	21.53	21.60	21.48			
15	16QAM	36	20	21.57	21.56	21.48			
15	16QAM	36	39	21.62	21.54	21.36	22	3	
15	16QAM	75	0	21.58	21.58	21.34			
15	64QAM	1	0	21.11	21.72	21.40			
15	64QAM	1	37	21.72	21.51	21.55	23	2	
15	64QAM	1	74	21.56	21.60	21.53			
15	64QAM	36	0	20.51	20.60	20.42			
15	64QAM	36	20	20.54	20.61	20.39	22	3	
15	64QAM	36	39	20.55	20.55	20.42			
15	64QAM	75	0	20.61	20.62	20.34			
Channel				2000	2017.5	2030	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	23.37	23.49	23.43	25	0	
10	QPSK	1	25	23.43	23.27	23.28			
10	QPSK	1	49	23.42	23.44	23.21			
10	QPSK	25	0	22.61	22.59	22.47	24	1	
10	QPSK	25	12	22.61	22.58	22.39			
10	QPSK	25	25	22.54	22.48	22.31			
10	QPSK	50	0	22.52	22.46	22.36	24	1	
10	16QAM	1	0	22.83	22.82	22.67			
10	16QAM	1	25	22.66	22.70	22.55			
10	16QAM	1	49	22.78	22.68	22.61	23	2	
10	16QAM	25	0	21.63	21.67	21.47			
10	16QAM	25	12	21.58	21.52	21.45			
10	16QAM	25	25	21.54	21.47	21.36	22	3	
10	16QAM	50	0	21.60	21.57	21.27			
10	64QAM	1	0	21.16	21.71	21.35			
10	64QAM	1	25	21.69	21.45	21.53	23	2	
10	64QAM	1	49	21.49	21.66	21.51			
10	64QAM	25	0	20.54	20.56	20.47			
10	64QAM	25	12	20.57	20.54	20.38	22	3	
10	64QAM	25	25	20.51	20.50	20.36			
10	64QAM	50	0	20.64	20.63	20.34			
Channel				1695	1637.5	1600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	23.36	23.54	23.36	25	0	
5	QPSK	1	12	23.44	23.29	23.25			
5	QPSK	1	24	23.36	23.35	23.15			
5	QPSK	12	0	22.58	22.66	22.39	24	1	
5	QPSK	12	7	22.57	22.60	22.37			
5	QPSK	12	13	22.49	22.52	22.38			
5	QPSK	25	0	22.62	22.47	22.31	23	2	
5	16QAM	1	0	22.78	22.77	22.69			
5	16QAM	1	12	22.66	22.71	22.54			
5	16QAM	1	24	22.76	22.71	22.67	23	2	
5	16QAM	12	0	21.58	21.57	21.48			
5	16QAM	12	7	21.57	21.61	21.46			
5	16QAM	12	13	21.59	21.52	21.32	22	3	
5	16QAM	25	0	21.55	21.51	21.27			
5	64QAM	1	0	21.13	21.72	21.41			
5	64QAM	1	12	21.66	21.47	21.55	23	2	
5	64QAM	1	24	21.51	21.61	21.49			
5	64QAM	12	0	20.57	20.62	20.41			
5	64QAM	12	7	20.50	20.53	20.37	22	3	
5	64QAM	12	13	20.59	20.48	20.43			
5	64QAM	25	0	20.60	20.56	20.32			
Channel				1690	1637.5	1600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	23.34	23.59	23.38	25	0	
3	QPSK	1	8	23.36	23.29	23.28			
3	QPSK	1	14	23.35	23.36	23.25			
3	QPSK	8	0	22.63	22.60	22.43	24	1	
3	QPSK	8	4	22.61	22.61	22.43			
3	QPSK	8	7	22.47	22.46	22.31			
3	QPSK	15	0	22.54	22.54	22.38	24	1	
3	16QAM	1	0	22.80	22.86	22.73			
3	16QAM	1	8	22.68	22.73	22.48			
3	16QAM	1	14	22.78	22.71	22.61	23	2	
3	16QAM	8	0	21.55	21.61	21.50			
3	16QAM	8	4	21.66	21.61	21.44			
3	16QAM	8	7	21.54	21.45	21.42	22	3	
3	16QAM	15	0	21.60	21.58	21.32			
3	64QAM	1	0	21.06	21.74	21.34			
3	64QAM	1	8	21.67	21.48	21.59	23	2	
3	64QAM	1	14	21.48	21.59	21.52			
3	64QAM	8	0	20.55	20.56	20.49			
3	64QAM	8	4	20.50	20.59	20.40	22	3	
3	64QAM	8	7	20.53	20.55	20.35			
3	64QAM	15	0	20.65	20.63	20.32			
Channel				1690	2017.5	2030	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	23.36	23.48	23.44	25	0	
1.4	QPSK	1	3	23.39	23.30	23.30			
1.4	QPSK	1	5	23.36	23.40	23.16			
1.4	QPSK	3	0	23.27	23.47	23.42	24	1	
1.4	QPSK	3	1	23.34	23.20	23.26			
1.4	QPSK	3	3	23.32	23.31	23.08			
1.4	QPSK	6	0	22.62	22.53	22.36	23	2	
1.4	16QAM	1	0	22.78	22.83	22.72			
1.4	16QAM	1	3	22.69	22.73	22.49			



Band 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	23.60	23.63	23.74	25	0	
10	QPSK	1	25	23.69	23.64	23.65			
10	QPSK	1	49	23.56	23.62	23.71			
10	QPSK	25	0	22.88	22.75	22.75	24	1	
10	QPSK	25	12	22.82	22.84	22.89			
10	QPSK	25	25	22.73	22.84	22.83			
10	QPSK	50	0	22.83	22.74	22.73	24	1	
10	16QAM	1	0	22.88	22.86	22.89			
10	16QAM	1	25	22.86	22.81	22.83			
10	16QAM	1	49	22.93	22.78	22.70	23	2	
10	16QAM	25	0	21.80	21.75	21.80			
10	16QAM	25	12	21.80	21.82	21.85			
10	16QAM	25	25	21.71	21.83	21.78	23	2	
10	16QAM	50	0	21.79	21.79	21.78			
10	64QAM	1	0	21.85	21.88	21.89			
10	64QAM	1	25	21.82	21.84	21.95	23	2	
10	64QAM	1	49	21.31	21.54	21.38			
10	64QAM	25	0	20.79	20.77	20.26			
10	64QAM	25	12	20.85	20.93	20.12	22	3	
10	64QAM	25	25	20.80	20.81	20.61			
10	64QAM	50	0	20.83	20.79	20.48			
Channel				20425	20525	20525	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5 <th>836.5<th>846.5</th><th colspan="3"></th></th>	836.5 <th>846.5</th> <th colspan="3"></th>	846.5			
5	QPSK	1	0	23.53	23.56	23.71	25	0	
5	QPSK	1	12	23.68	23.55	23.62			
5	QPSK	1	24	23.54	23.60	23.62			
5	QPSK	12	0	22.70	22.69	22.71	24	1	
5	QPSK	12	7	22.77	22.74	22.64			
5	QPSK	12	13	22.69	22.88	22.76			
5	QPSK	25	0	22.79	22.72	22.66	24	1	
5	16QAM	1	0	22.88	22.78	22.80			
5	16QAM	1	12	22.82	22.73	22.54			
5	16QAM	1	24	22.83	22.68	22.86	23	2	
5	16QAM	12	0	21.73	21.65	21.77			
5	16QAM	12	7	21.79	21.73	21.79			
5	16QAM	12	13	21.68	21.77	21.70	23	2	
5	16QAM	25	0	21.78	21.69	21.68			
5	64QAM	1	0	21.84	21.80	21.88			
5	64QAM	1	12	21.72	21.80	21.39	23	2	
5	64QAM	1	24	21.23	21.47	21.31			
5	64QAM	12	0	20.70	20.77	20.20			
5	64QAM	12	7	20.85	20.93	20.10	22	3	
5	64QAM	12	13	20.75	20.80	20.52			
5	64QAM	25	0	20.78	20.79	20.48			
Channel				20415	20525	20525	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				825.5 <th>836.5<th>847.5</th><th colspan="3"></th></th>	836.5 <th>847.5</th> <th colspan="3"></th>	847.5			
3	QPSK	1	0	23.51	23.54	23.66	25	0	
3	QPSK	1	8	23.64	23.61	23.64			
3	QPSK	1	14	23.47	23.54	23.70			
3	QPSK	8	0	22.61	22.72	22.72	24	1	
3	QPSK	8	4	22.74	22.75	22.81			
3	QPSK	8	7	22.69	22.83	22.76			
3	QPSK	15	0	22.73	22.74	22.64	24	1	
3	16QAM	1	0	22.87	22.86	22.82			
3	16QAM	1	8	22.86	22.80	22.62			
3	16QAM	1	14	22.82	22.71	22.84	23	2	
3	16QAM	8	0	21.77	21.70	21.76			
3	16QAM	8	4	21.80	21.78	21.81			
3	16QAM	8	7	21.66	21.77	21.78	23	2	
3	16QAM	15	0	21.70	21.72	21.77			
3	64QAM	1	0	21.77	21.78	21.82			
3	64QAM	1	8	21.90	21.83	21.25	23	2	
3	64QAM	1	14	21.31	21.53	21.30			
3	64QAM	8	0	20.72	20.72	20.21			
3	64QAM	8	4	20.76	20.89	20.03	22	3	
3	64QAM	8	7	20.79	20.73	20.58			
3	64QAM	15	0	20.73	20.69	20.48			
Channel				20407	20525	20543	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.7 <th>836.5<th>848.3</th><th colspan="3"></th></th>	836.5 <th>848.3</th> <th colspan="3"></th>	848.3			
1.4	QPSK	1	0	23.54	23.58	23.65	25	0	
1.4	QPSK	1	3	23.69	23.58	23.63			
1.4	QPSK	1	5	23.48	23.55	23.62			
1.4	QPSK	3	0	23.47	23.51	23.63	24	1	
1.4	QPSK	3	1	23.69	23.58	23.55			
1.4	QPSK	3	3	23.40	23.45	23.59			
1.4	QPSK	6	0	22.79	22.72	22.69	24	1	
1.4	16QAM	1	0	22.82	22.84	22.88			
1.4	16QAM	1	3	22.85	22.75	22.61			
1.4	16QAM	1	5	22.74	22.78	22.81	23	2	
1.4	16QAM	3	0	22.73	22.83	22.88			
1.4	16QAM	3	1	22.82	22.67	22.55			
1.4	16QAM	3	3	22.70	22.72	22.80	23	2	
1.4	64QAM	1	0	21.83	21.81	21.86			
1.4	64QAM	1	3	21.79	21.75	21.29			
1.4	64QAM	1	5	21.23	21.45	21.32	23	2	
1.4	64QAM	3	0	21.76	21.79	21.82			
1.4	64QAM	3	1	21.78	21.68	21.38			
1.4	64QAM	3	3	21.14	21.39	21.24	22	3	
1.4	64QAM	6	0	20.79	20.70	20.47			



Band 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)	
Channel				2510	2535	2560	24.5	0	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	23.27	23.40	23.29			
20	QPSK	1	49	23.25	23.30	23.20	23.5	1	
20	QPSK	1	99	23.29	23.29	23.16			
20	QPSK	50	0	22.39	22.42	22.28			
20	QPSK	50	24	22.41	22.42	22.26	22.5	2	
20	QPSK	50	50	22.38	22.44	22.17			
20	QPSK	100	0	22.36	22.37	22.28			
20	16QAM	1	0	22.67	22.68	22.64	21.5	1	
20	16QAM	1	49	22.53	22.66	22.55			
20	16QAM	1	99	22.62	22.57	22.48			
20	16QAM	50	0	21.33	21.42	21.32	22.5	2	
20	16QAM	50	24	21.43	21.44	21.30			
20	16QAM	50	50	21.36	21.42	21.25			
20	16QAM	100	0	21.34	21.35	21.29	21.5	3	
20	64QAM	1	0	21.50	21.43	21.44			
20	64QAM	1	49	21.49	21.59	21.50			
20	64QAM	1	99	21.40	21.51	21.37	21.5	3	
20	64QAM	50	0	20.41	20.45	20.34			
20	64QAM	50	24	20.45	20.44	20.29			
20	64QAM	50	50	20.42	20.44	20.25	20.5	20.30	
20	64QAM	100	0	20.39	20.43	20.30			
Channel				2525	21100	21175	24.5	0	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	23.25	23.39	23.23			
15	QPSK	1	37	23.24	23.26	23.12	23.5	1	
15	QPSK	1	74	23.23	23.29	23.07			
15	QPSK	36	0	22.32	22.40	22.24			
15	QPSK	36	20	22.36	22.35	22.21	22.5	2	
15	QPSK	36	39	22.37	22.41	22.08			
15	QPSK	75	0	22.26	22.37	22.28			
15	16QAM	1	0	22.57	22.63	22.62	21.5	1	
15	16QAM	1	37	22.44	22.62	22.45			
15	16QAM	1	74	22.59	22.54	22.47			
15	16QAM	36	0	21.30	21.35	21.31	22.5	2	
15	16QAM	36	20	21.35	21.38	21.26			
15	16QAM	36	39	21.30	21.41	21.17			
15	16QAM	75	0	21.28	21.25	21.23	22.5	2	
15	64QAM	1	0	21.43	21.53	21.35			
15	64QAM	1	37	21.41	21.50	21.40			
15	64QAM	1	74	21.30	21.51	21.35	21.5	3	
15	64QAM	36	0	20.37	20.45	20.25			
15	64QAM	36	20	20.41	20.36	20.22			
15	64QAM	36	39	20.36	20.39	20.18	20.5	20.30	
15	64QAM	75	0	20.35	20.39	20.20			
Channel				2500	21100	21100	24.5	0	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	23.26	23.37	23.19			
10	QPSK	1	25	23.19	23.26	23.17	23.5	1	
10	QPSK	1	49	23.28	23.28	23.16			
10	QPSK	25	0	22.37	22.38	22.19			
10	QPSK	25	12	22.37	22.33	22.21	22.5	2	
10	QPSK	25	25	22.37	22.35	22.13			
10	QPSK	50	0	22.26	22.28	22.18			
10	16QAM	1	0	22.66	22.68	22.61	21.5	1	
10	16QAM	1	25	22.44	22.58	22.45			
10	16QAM	1	49	22.53	22.52	22.44			
10	16QAM	25	0	21.29	21.36	21.31	22.5	2	
10	16QAM	25	12	21.36	21.36	21.27			
10	16QAM	25	25	21.36	21.38	21.15			
10	16QAM	50	0	21.27	21.31	21.21	22.5	2	
10	64QAM	1	0	21.45	21.39	21.44			
10	64QAM	1	25	21.45	21.56	21.49			
10	64QAM	1	49	21.40	21.44	21.31	21.5	3	
10	64QAM	25	0	20.36	20.41	20.34			
10	64QAM	25	12	20.45	20.35	20.21			
10	64QAM	25	25	20.41	20.42	20.23	20.5	20.30	
10	64QAM	50	0	20.31	20.40	20.21			
Channel				25175	21100	21450	24.5	0	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	23.25	23.33	23.20			
5	QPSK	1	12	23.21	23.25	23.11	23.5	1	
5	QPSK	1	24	23.29	23.29	23.13			
5	QPSK	12	0	22.31	22.39	22.23			
5	QPSK	12	7	22.36	22.42	22.16	22.5	1	
5	QPSK	12	13	22.38	22.37	22.09			
5	QPSK	25	0	22.28	22.30	22.18			
5	16QAM	1	0	22.66	22.67	22.63	21.5	1	
5	16QAM	1	12	22.48	22.56	22.45			
5	16QAM	1	24	22.60	22.49	22.38			
5	16QAM	12	0	21.31	21.42	21.27	22.5	2	
5	16QAM	12	7	21.37	21.44	21.27			
5	16QAM	12	13	21.26	21.42	21.17			
5	16QAM	25	0	21.31	21.31	21.19	22.5	2	
5	64QAM	1	0	21.45	21.35	21.35			
5	64QAM	1	12	21.49	21.51	21.40			
5	64QAM	1	24	21.31	21.46	21.31	21.5	3	
5	64QAM	12	0	20.38	20.40	20.30			
5	64QAM	12	7	20.39	20.38	20.19			
5	64QAM	12	13	20.36	20.41	20.20	20.5	20.30	
5	64QAM	25	0	20.36	20.36	20.28			



Band 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)		
Channel				1870.0	1880.0	1900.0				
20	QPSK	1	0	23.89	23.93	23.88	25	0		
20	QPSK	1	49	23.75	23.85	23.64				
20	QPSK	1	99	23.63	23.74	23.75				
20	QPSK	50	0	22.95	23.04	22.84				
20	QPSK	50	24	22.90	22.85	22.79				
20	QPSK	50	50	22.82	22.81	22.81	24	1		
20	QPSK	100	0	22.85	22.89	22.84				
20	16QAM	1	0	23.02	23.44	22.94				
20	16QAM	1	49	23.13	23.42	22.99				
20	16QAM	1	99	22.88	23.34	23.25				
20	16QAM	50	0	22.11	21.95	21.89	23	2		
20	16QAM	50	24	21.90	21.81	21.87				
20	16QAM	50	50	21.89	21.85	21.82				
20	16QAM	100	0	22.03	21.82	21.78				
20	64QAM	1	0	22.06	21.95	22.09				
20	64QAM	1	49	22.15	22.16	21.59	23	2		
20	64QAM	1	99	22.14	22.08	21.93				
20	64QAM	50	0	20.94	20.86	20.97				
20	64QAM	50	24	21.03	20.89	20.85				
20	64QAM	50	50	20.92	20.88	20.90				
20	64QAM	100	0	21.02	20.82	20.76	22		MPR (dB)	
Channel				1867.5	1890.0	1912.5				
Frequency (MHz)				1867.5	1880	1902.5				
15	QPSK	1	0	23.84	23.76	23.65	25	0		
15	QPSK	1	37	23.86	23.91	23.70				
15	QPSK	1	74	23.90	23.84	23.61				
15	QPSK	36	0	23.06	22.87	22.61				
15	QPSK	36	20	23.10	22.89	22.82				
15	QPSK	36	39	22.89	22.84	22.85	24	1		
15	QPSK	75	0	23.10	22.89	22.74				
15	16QAM	1	0	23.47	23.18	23.18				
15	16QAM	1	37	23.06	23.11	22.60				
15	16QAM	1	74	23.48	23.27	23.22				
15	16QAM	36	0	22.04	21.89	21.71	23	2		
15	16QAM	36	20	22.07	21.84	21.78				
15	16QAM	36	39	21.92	21.87	21.80				
15	16QAM	75	0	22.08	21.93	21.78				
15	64QAM	1	0	22.18	21.80	22.11				
15	64QAM	1	37	21.80	21.80	21.95	23	2		
15	64QAM	1	74	22.13	22.09	22.03				
15	64QAM	36	0	21.17	20.86	20.83				
15	64QAM	36	20	21.06	20.92	20.82				
15	64QAM	36	39	20.92	20.88	20.77				
15	64QAM	75	0	21.12	20.68	20.62	22	3		
Channel				1850.0	1890.0	1915.0				
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	0	23.66	23.73	23.51	25	0		
10	QPSK	1	25	23.79	23.81	23.70				
10	QPSK	1	49	23.67	23.70	23.57				
10	QPSK	25	0	22.91	22.85	22.69				
10	QPSK	25	12	22.96	22.91	22.65				
10	QPSK	25	25	22.92	22.84	22.83	24	1		
10	QPSK	50	0	22.84	22.83	22.72				
10	16QAM	1	0	23.11	23.23	23.12				
10	16QAM	1	25	23.07	23.12	22.64				
10	16QAM	1	49	23.18	23.12	23.10				
10	16QAM	25	0	22.04	21.78	21.70	23	2		
10	16QAM	25	12	21.79	21.91	21.71				
10	16QAM	25	25	21.83	21.92	21.74				
10	16QAM	50	0	21.85	21.85	21.65				
10	64QAM	1	0	21.97	21.95	21.65				
10	64QAM	1	25	22.27	22.38	22.27	23	2		
10	64QAM	1	49	21.98	22.07	21.63				
10	64QAM	25	0	20.94	20.90	20.70				
10	64QAM	25	12	20.90	20.95	20.75				
10	64QAM	25	25	20.95	20.83	20.78				
10	64QAM	50	0	20.88	20.93	20.73	22	3		
Channel				1852.5	1890.0	1917.5				
Frequency (MHz)				1852.5	1880	1907.5				
5	QPSK	1	0	23.67	23.63	23.57	25	0		
5	QPSK	1	12	23.75	23.78	23.81				
5	QPSK	1	24	23.83	23.76	23.62				
5	QPSK	12	0	22.95	22.84	22.59				
5	QPSK	12	7	22.90	22.87	22.75				
5	QPSK	12	13	22.95	22.80	22.73	24	1		
5	QPSK	25	0	22.89	22.81	22.58				
5	16QAM	1	0	23.06	22.89	22.78				
5	16QAM	1	12	22.84	23.34	22.92				
5	16QAM	1	24	23.26	22.97	22.90				
5	16QAM	12	0	21.94	21.84	21.83	23	2		
5	16QAM	12	7	21.98	21.91	21.78				
5	16QAM	12	13	21.86	21.82	21.73				
5	16QAM	25	0	21.97	21.85	21.61				
5	64QAM	1	0	21.97	22.13	22.01				
5	64QAM	1	12	22.06	21.98	21.97	23	2		
5	64QAM	1	24	22.22	22.16	21.91				
5	64QAM	12	0	21.00	20.90	20.68				
5	64QAM	12	7	21.01	20.91	20.85				
5	64QAM	12	13	21.03	20.88	20.83				
5	64QAM	25	0	20.93	20.90	20.67	22		MPR (dB)	
Channel				1851.5	1890.0	1916.5				
Frequency (MHz)				1851.5	1880	1909.5				
3	QPSK	1	0	23.79	23.72	23.68	25	0		
3	QPSK	1	8	23.79	23.86	23.61				
3	QPSK	1	14	23.71	23.72	23.55				
3	QPSK	8	0	22.84	22.85	22.64				
3	QPSK	8	4	22.80	22.91	22.71				
3	QPSK	8	7	22.83	22.85	22.71	24	1		
3	QPSK	15	0	22.92	22.87	22.74				
3	16QAM	1	0	23.35	22.88	22.95				
3	16QAM	1	8	23.45	23.08	22.96				
3	16QAM	1	14	23.29	23.32	23.04				
3	16QAM	8	0	21.93	21.95	21.76	23	2		
3	16QAM	8	4	22.04	21.96	21.90				
3	16QAM	8	7	21.92	21.79	21.73				
3	16QAM	15	0	21.82	21.82	21.66				
3	64QAM	1	0	21.72	22.09	21.99				
3	64QAM	1	8	21.96	22.24	21.96	23	2		
3	64QAM	1	14	21.92	21.80	21.90				
3	64QAM	8	0	20.89	20.80	20.83				
3	64QAM	8	4	21.03	21.02	20.74				
3	64QAM	8	7	20.96	20.88	20.72				
3	64QAM	15	0	20.95	20.92	20.62	22		MPR (dB)	
Channel				1860.7	1890.0	1919.3				
Frequency (MHz)				1860.7	1880	1909.3				
1.4	QPSK	1	0	23.67	23.67	23.47	25	0		
1.4	QPSK	1	3	23.68	23.67	23.52				
1.4	QPSK	1	5	23.72	23.67	23.48				
1.4	QPSK	3	0	23.71	23.73	23.58				
1.4	QPSK	3	1	23.82	23.70	23.57				
1.4	QPSK	3	3	23.76	23.66	23.56	24	1		
1.4	QPSK	6	0	22.85	22.78	22.61				
1.4	QPSK	6	1	22.77	22.74	22.79				
1.4	16QAM	1	3	23.27	23.32	23.14				
1.4	16QAM	1	5	23.02	22.89	22.81				
1.4	16QAM	3	0	22.87	22.75	22.65	23	2		
1.4	16QAM	3	1	22.80	22.90	22.71				
1.4	16QAM	3	1	22.68	22.61	22.69				
1.4	16QAM	3	1	21.87	21.95	21.80				
1.4	16QAM	3	1	22.10	21.98	21.80				
1.4	64QAM	1	3	22.12	22.17	21.72	23	2		
1.4	64QAM	1	5	22.09	22.05	21.73				
1.4	64QAM	3	0	21.99	21.83	21.84				
1.4	64QAM	3	1	22.10	22.99	21.86				
1.4	64QAM	3	1	22.09	22.91	21.75				
1.4	64QAM	5	0	20.77	21.74	20.55	22		MPR (dB)	



Band 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)	
Channel				1720	1732.5	1745	25	0	
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	23.80	23.84	23.70			
20	QPSK	1	49	23.68	23.59	23.57	24	1	
20	QPSK	1	99	23.56	23.58	23.38			
20	QPSK	50	0	22.78	22.81	22.87			
20	QPSK	50	24	22.69	22.71	22.56	23	2	
20	QPSK	50	50	22.66	22.69	22.58			
20	QPSK	100	0	22.74	22.75	22.62			
20	16QAM	1	0	22.91	22.95	22.90	23	2	1
20	16QAM	1	49	22.87	22.99	22.87			
20	16QAM	1	99	22.89	22.78	22.87			
20	16QAM	50	0	21.87	21.86	21.76	22	3	
20	16QAM	50	24	21.78	21.81	21.57			
20	16QAM	50	50	21.66	21.70	21.57			
20	16QAM	100	0	21.69	21.71	21.64	23	2	
20	64QAM	1	0	21.06	21.99	21.76			
20	64QAM	1	49	21.73	21.95	21.62			
20	64QAM	1	99	21.71	21.72	21.60	22	3	
20	64QAM	50	0	20.71	20.82	20.73			
20	64QAM	50	24	20.87	20.75	20.64			
20	64QAM	50	50	20.76	20.71	20.59	23	2	
20	64QAM	100	0	20.76	20.73	20.69			
Channel				2002.5	2017.5	2032.5			
Frequency (MHz)				1717.5	1732.5	1747.5	25	0	
15	QPSK	1	0	23.80	23.82	23.73			
15	QPSK	1	37	23.70	23.60	23.50	24	1	
15	QPSK	1	74	23.67	23.54	23.47			
15	QPSK	36	0	22.87	22.85	22.75	23	2	1
15	QPSK	36	20	22.82	22.74	22.58			
15	QPSK	36	39	22.81	22.58	22.54			
15	QPSK	75	0	22.88	22.79	22.71	24	1	
15	16QAM	1	0	22.99	22.78	22.89			
15	16QAM	1	37	22.95	22.99	22.90			
15	16QAM	1	74	22.80	22.84	22.99	23	2	
15	16QAM	36	0	21.88	21.92	21.72			
15	16QAM	36	20	21.88	21.78	21.72			
15	16QAM	36	39	21.80	21.72	21.66	22	3	
15	16QAM	75	0	21.83	21.74	21.71			
15	64QAM	1	0	21.12	21.83	21.81			
15	64QAM	1	74	21.62	21.54	21.65	23	2	
15	64QAM	36	0	20.51	20.91	20.80			
15	64QAM	36	20	20.83	20.76	20.79			
15	64QAM	36	39	20.78	20.61	20.67	22	3	
15	64QAM	75	0	20.90	20.81	20.82			
Channel				2000	2017.5	2032.5			
Frequency (MHz)				1715	1732.5	1750	25	0	
10	QPSK	1	0	23.68	23.57	23.52			
10	QPSK	1	25	23.79	23.52	23.67	24	1	
10	QPSK	1	49	23.57	23.82	23.72			
10	QPSK	25	0	22.81	22.80	22.69			
10	QPSK	25	12	22.90	22.82	22.70	23	2	1
10	QPSK	25	25	22.87	22.71	22.70			
10	QPSK	50	0	22.82	22.86	22.80			
10	16QAM	1	0	22.73	22.99	22.89	24	1	
10	16QAM	1	25	22.90	22.94	22.86			
10	16QAM	1	49	22.82	22.89	22.77			
10	16QAM	25	0	21.90	21.83	21.75	23	2	
10	16QAM	25	12	21.93	21.99	21.89			
10	16QAM	25	25	21.79	21.75	21.70			
10	16QAM	50	0	21.86	21.83	21.82	22	3	
10	64QAM	1	0	21.04	22.00	21.69			
10	64QAM	1	25	21.54	21.99	21.98			
10	64QAM	1	49	21.94	21.96	21.87	23	2	
10	64QAM	25	0	20.33	20.83	20.84			
10	64QAM	25	12	20.65	20.82	20.63			
10	64QAM	25	25	21.00	20.85	20.75	22	3	
10	64QAM	50	0	20.65	20.86	20.80			
Channel				1695	2017.5	2032.5			
Frequency (MHz)				1712.5	1732.5	1752.5	25	0	
5	QPSK	1	0	23.54	23.58	23.65			
5	QPSK	1	12	23.71	23.60	23.57	24	1	
5	QPSK	1	24	23.80	23.66	23.53			
5	QPSK	12	0	22.84	22.83	22.70			
5	QPSK	12	7	22.86	22.83	22.73	23	2	1
5	QPSK	12	13	22.86	22.71	22.68			
5	QPSK	25	0	22.83	22.73	22.69			
5	16QAM	1	0	22.83	22.89	22.99	24	1	
5	16QAM	1	12	22.98	22.99	22.49			
5	16QAM	1	24	22.99	22.80	22.92			
5	16QAM	12	0	21.86	21.68	21.70	23	2	
5	16QAM	12	7	21.83	21.83	21.76			
5	16QAM	12	13	21.91	21.70	21.65			
5	16QAM	25	0	21.93	21.74	21.76	22	3	
5	64QAM	1	0	21.08	21.99	21.89			
5	64QAM	1	12	21.33	21.99	21.98			
5	64QAM	1	24	21.36	21.87	21.75	23	2	
5	64QAM	12	0	20.21	20.80	20.74			
5	64QAM	12	7	20.21	20.94	20.78			
5	64QAM	12	13	20.25	20.74	20.77	22	3	
5	64QAM	25	0	20.12	20.82	20.75			
Channel				1695	2017.5	2032.5			
Frequency (MHz)				1711.5	1732.5	1753.5	25	0	
3	QPSK	1	0	23.52	23.62	23.53			
3	QPSK	1	8	23.80	23.59	23.59	24	1	
3	QPSK	1	14	23.70	23.55	23.55			
3	QPSK	8	0	22.78	22.77	22.65			
3	QPSK	8	4	22.84	22.72	22.63	23	2	1
3	QPSK	8	7	22.83	22.74	22.68			
3	QPSK	15	0	22.79	22.79	22.67			
3	16QAM	1	0	22.86	22.86	22.94	24	1	
3	16QAM	1	8	22.98	22.88	22.99			
3	16QAM	1	14	22.95	22.77	22.98			
3	16QAM	8	0	21.99	21.78	21.72	23	2	
3	16QAM	8	4	21.90	21.80	21.75			
3	16QAM	8	7	21.89	21.85	21.63			
3	16QAM	15	0	21.81	21.72	21.67	22	3	
3	64QAM	1	0	21.29	21.53	21.65			
3	64QAM	1	8	21.38	21.99	21.71			
3	64QAM	1	14	21.07	21.70	21.72	23	2	
3	64QAM	8	0	20.12	20.78	20.60			
3	64QAM	8	4	20.16	20.82	20.76			
3	64QAM	8	7	20.29	20.96	20.81	22	3	
3	64QAM	15	0	20.18	20.89	20.71			
Channel				1695	2017.5	2032.5			
Frequency (MHz)				1707	1732.5	1754.5	25	0	
1.4	QPSK	1	0	23.44	23.55	23.51			
1.4	QPSK	1	3	23.48	23.53	23.50	24	1	
1.4	QPSK	1	5	23.45	23.55	23.50			
1.4	QPSK	3	0	23.57	23.57	23.52			
1.4	QPSK	3	1	23.65	23.65	23.50	23	2	1
1.4	QPSK	3	3	23.62	23.53	23.55			
1.4	QPSK	6	0	22.75	22.72	22.57			
1.4	16QAM	1	0	22.98	22.86	22.52	24	1	
1.4	16QAM	1	3	22.99	23.00	22.81			
1.4	16QAM	1	5	22.98	23.00	22.68			
1.4	16QAM	3	0	22.76	22.71	22.69	23	2	
1.4	16QAM	3	1	22.72	22.70	22.64			
1.4	16QAM	3	3	22.62	22.67	22.49			
1.4	16QAM	6	0	21.99	21.78	21.84	22	3	
1.4	16QAM	6	1	21.06	21.88	21.82			
1.4	16QAM	6	3	21.31	22.00	21.72			
1.4	64QAM	1	5	21.07	21.88	21.57	23	2	
1.4	64QAM	3	0	21.11	21.81	21.39			
1.4	64QAM	3	1	21.19	21.87	21.49			
1.4	64QAM	6	0	21.03	21.93	21.79	22	3	
1.4	64QAM	6	3	20.99	20.86	20.50			



Band 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20505	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	23.81	23.89	23.77	25	0	
10	QPSK	1	25	23.71	23.85	23.53			
10	QPSK	1	49	23.65	23.69	23.61			
10	QPSK	25	0	22.90	22.92	22.89			
10	QPSK	25	12	22.89	22.90	22.79			
10	QPSK	25	25	22.78	22.85	22.88			
10	QPSK	50	0	22.90	22.93	22.77	24	1	
10	16QAM	1	0	23.48	22.80	23.03			
10	16QAM	1	25	22.88	23.21	22.85			
10	16QAM	1	49	23.31	22.73	22.81			
10	16QAM	25	0	21.81	21.93	21.76			
10	16QAM	25	12	21.83	21.96	21.90			
10	16QAM	25	25	21.96	22.05	21.86	23	2	
10	16QAM	50	0	21.90	21.89	21.74			
10	64QAM	1	0	22.12	22.21	21.77			
10	64QAM	1	25	22.42	21.85	21.96			
10	64QAM	1	49	21.68	21.64	21.23			
10	64QAM	25	0	20.98	20.96	20.29			
10	64QAM	25	12	20.90	21.05	20.37	22	3	
10	64QAM	25	25	20.96	20.98	20.53			
10	64QAM	50	0	21.03	20.91	20.51			
Channel				20452	20525	20625	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	23.68	23.72	23.86	25	0	
5	QPSK	1	12	23.72	23.84	23.81			
5	QPSK	1	24	23.76	23.83	23.83			
5	QPSK	12	0	22.85	23.00	22.84			
5	QPSK	12	7	22.96	22.91	22.84			
5	QPSK	12	13	22.92	22.87	22.81			
5	QPSK	25	0	22.82	22.88	22.77	24	1	
5	16QAM	1	0	23.03	23.21	23.30			
5	16QAM	1	12	23.23	23.33	22.94			
5	16QAM	1	24	23.34	22.91	22.80			
5	16QAM	12	0	21.88	22.02	21.89			
5	16QAM	12	7	21.90	21.96	21.91			
5	16QAM	12	13	21.98	21.94	21.76	23	2	
5	16QAM	25	0	21.91	21.90	21.91			
5	64QAM	1	0	22.21	22.21	21.94			
5	64QAM	1	12	21.97	22.19	21.89			
5	64QAM	1	24	21.88	21.90	21.82			
5	64QAM	12	0	20.86	21.12	20.84			
5	64QAM	12	7	21.00	20.95	20.96	22	3	
5	64QAM	12	13	20.95	20.81	20.78			
5	64QAM	25	0	20.97	20.93	20.92			
Channel				20415	20525	20625	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	23.82	23.84	23.64	25	0	
3	QPSK	1	8	23.87	23.88	23.80			
3	QPSK	1	14	23.71	23.71	23.77			
3	QPSK	8	0	22.91	22.92	22.74			
3	QPSK	8	4	22.97	22.88	22.76			
3	QPSK	8	7	22.86	22.88	22.94			
3	QPSK	15	0	22.95	22.85	22.75	24	1	
3	16QAM	1	0	23.15	22.94	22.72			
3	16QAM	1	8	23.25	22.96	22.83			
3	16QAM	1	14	23.31	22.86	23.04			
3	16QAM	8	0	21.88	21.96	21.84			
3	16QAM	8	4	22.06	21.92	21.84			
3	16QAM	8	7	21.92	21.94	21.86	23	2	
3	16QAM	15	0	21.91	21.89	21.81			
3	64QAM	1	0	22.24	22.26	22.15			
3	64QAM	1	8	22.13	22.17	22.19			
3	64QAM	1	14	22.05	22.06	21.92			
3	64QAM	8	0	20.83	21.16	20.87			
3	64QAM	8	4	20.88	20.93	20.79	22	3	
3	64QAM	8	7	20.79	20.88	20.82			
3	64QAM	15	0	21.02	20.81	20.89			
Channel				20467	20525	20643	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	23.68	23.79	23.70	25	0	
1.4	QPSK	1	3	23.76	23.72	23.65			
1.4	QPSK	1	5	23.63	23.71	23.62			
1.4	QPSK	3	0	23.69	23.76	23.66			
1.4	QPSK	3	1	23.86	23.79	23.78			
1.4	QPSK	3	3	23.70	23.67	23.64			
1.4	QPSK	6	0	22.76	22.88	22.72	24	1	
1.4	16QAM	1	0	23.35	23.24	23.26			
1.4	16QAM	1	3	22.74	23.36	23.26			
1.4	16QAM	1	5	22.96	23.26	23.15			
1.4	16QAM	3	0	22.88	22.78	22.77			
1.4	16QAM	3	1	22.92	22.92	22.86			
1.4	16QAM	3	3	22.83	22.81	22.80	23	2	
1.4	16QAM	6	0	21.90	21.90	21.85			
1.4	64QAM	1	0	21.69	21.88	21.83			
1.4	64QAM	1	3	21.99	22.13	21.88			
1.4	64QAM	1	5	21.83	22.02	21.85			
1.4	64QAM	3	0	22.05	21.90	21.98			
1.4	64QAM	3	1	22.03	22.06	21.67	23	2	
1.4	64QAM	3	3	21.99	21.96	22.01			
1.4	64QAM	6	0	20.78	20.87	20.78			



Band 7											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)			
Channel				20890	21100	21350					
20	QPSK	1	0	23.70	23.93	23.90	25	0			
20	QPSK	1	49	23.94	23.84	23.97					
20	QPSK	1	99	23.85	23.90	23.87					
20	QPSK	50	0	22.92	23.06	23.00	24	1			
20	QPSK	50	24	22.90	22.94	22.92					
20	QPSK	50	50	22.98	23.05	22.90					
20	QPSK	100	0	22.94	23.03	23.00	24	2			
20	16QAM	1	0	23.49	23.42	22.95					
20	16QAM	1	49	23.15	23.47	23.58					
20	16QAM	1	99	23.16	23.18	23.58	23	2			
20	16QAM	50	0	21.92	22.00	22.01					
20	16QAM	50	24	21.97	22.00	22.00					
20	16QAM	50	50	21.94	22.12	22.02	23	2			
20	16QAM	100	0	21.95	21.95	22.06					
20	64QAM	1	0	22.09	22.22	21.96					
20	64QAM	1	49	21.95	22.11	22.34	23	2			
20	64QAM	1	99	21.97	22.02	22.07					
20	64QAM	50	0	21.02	21.00	21.09					
20	64QAM	50	24	21.02	21.06	21.09	22	3			
20	64QAM	50	50	21.05	21.12	20.98					
20	64QAM	100	0	20.92	21.00	21.07					
Channel				2507.5	2535	2562.5	Tune-up limit (dBm)			MPR (dB)	
15	QPSK	1	0	23.86	23.96	23.88	25			0	
15	QPSK	1	37	23.84	23.95	23.89					
15	QPSK	1	74	23.90	23.92	23.90					
15	QPSK	36	0	22.85	23.03	22.91	24	1			
15	QPSK	36	20	23.02	22.95	22.98					
15	QPSK	36	39	22.95	23.09	23.03					
15	QPSK	75	0	22.95	23.02	23.00	24	1			
15	16QAM	1	0	23.12	23.36	23.58					
15	16QAM	1	37	23.05	23.55	23.20					
15	16QAM	1	74	23.14	23.43	23.09	23	2			
15	16QAM	36	0	21.88	21.99	22.06					
15	16QAM	36	20	22.03	22.09	21.99					
15	16QAM	36	39	21.97	22.14	22.02	23	2			
15	16QAM	75	0	21.80	22.06	22.02					
15	64QAM	1	0	21.97	22.21	22.34					
15	64QAM	1	37	22.12	21.89	22.36	23	2			
15	64QAM	1	74	22.15	22.30	22.15					
15	64QAM	36	0	20.93	21.00	21.06					
15	64QAM	36	20	21.03	21.01	20.93	22	3			
15	64QAM	36	39	20.92	21.10	20.97					
15	64QAM	75	0	20.97	21.03	21.00					
Channel				2590	2610	2630	Tune-up limit (dBm)			MPR (dB)	
10	QPSK	1	0	23.61	23.64	23.67	25			0	
10	QPSK	1	25	23.64	23.86	23.69					
10	QPSK	1	49	23.71	23.76	23.71					
10	QPSK	25	0	22.78	22.99	22.89	24	1			
10	QPSK	25	12	22.95	22.97	22.98					
10	QPSK	25	25	22.92	23.02	23.01					
10	QPSK	50	0	22.94	22.95	23.00	24	1			
10	16QAM	1	0	23.10	23.10	23.28					
10	16QAM	1	25	23.32	23.38	23.46					
10	16QAM	1	49	23.13	22.89	23.08	23	2			
10	16QAM	25	0	21.82	21.96	22.05					
10	16QAM	25	12	21.93	21.88	21.96					
10	16QAM	25	25	22.01	22.07	21.94	23	2			
10	16QAM	50	0	21.94	21.92	22.04					
10	64QAM	1	0	22.05	22.07	22.32					
10	64QAM	1	25	22.21	22.21	22.35	23	2			
10	64QAM	1	49	22.00	22.02	21.87					
10	64QAM	25	0	20.94	21.04	21.04					
10	64QAM	25	12	20.95	21.01	21.16	22	3			
10	64QAM	25	25	20.93	21.05	20.90					
10	64QAM	50	0	20.98	21.03	21.00					
Channel				2672.5	2695	2717.5	Tune-up limit (dBm)			MPR (dB)	
5	QPSK	1	0	23.62	23.82	23.84	25			0	
5	QPSK	1	12	23.89	23.89	23.79					
5	QPSK	1	24	23.89	23.96	23.92					
5	QPSK	12	0	22.83	22.91	23.01	24	1			
5	QPSK	12	7	22.87	22.97	22.92					
5	QPSK	12	13	22.95	23.06	22.96					
5	QPSK	25	0	22.89	23.05	23.01	24	1			
5	16QAM	1	0	23.29	22.78	23.25					
5	16QAM	1	12	22.91	23.14	23.00					
5	16QAM	1	24	23.07	23.11	23.11	23	2			
5	16QAM	12	0	21.80	21.95	21.95					
5	16QAM	12	7	21.91	22.03	22.01					
5	16QAM	12	13	21.96	21.97	22.11	23	2			
5	16QAM	25	0	21.95	21.89	21.99					
5	64QAM	1	0	21.97	21.92	22.16					
5	64QAM	1	12	22.17	22.25	21.92	23	2			
5	64QAM	1	24	22.01	21.76	22.25					
5	64QAM	12	0	20.99	20.99	20.97					
5	64QAM	12	7	20.95	20.96	20.98	22	3			
5	64QAM	12	13	20.90	21.09	20.89					
5	64QAM	25	0	20.98	20.95	21.04					



Band 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / dBm	Power Middle Ch / dBm	Power High Ch / dBm	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350	24	0	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.57	22.59	22.79	24	0	
20	QPSK	1	49	22.70	22.72	22.68			
20	QPSK	1	99	22.51	22.54	22.65			
20	QPSK	50	0	21.75	21.66	21.77			
20	QPSK	50	24	21.77	21.69	21.88	23	1	
20	QPSK	50	50	21.72	21.68	21.79			
20	QPSK	100	0	21.73	21.70	21.82			
20	16QAM	1	0	21.84	21.84	21.97			
20	16QAM	1	49	22.10	22.13	22.21	23	1	
20	16QAM	1	99	21.91	21.89	22.00			
20	16QAM	50	0	20.75	20.75	20.81			
20	16QAM	50	24	20.78	20.72	20.81			
20	16QAM	50	50	20.71	20.81	20.90	22	2	
20	16QAM	100	0	20.71	20.72	20.74			
20	64QAM	1	0	20.79	20.87	20.87			
20	64QAM	1	49	20.95	20.92	21.07			
20	64QAM	1	99	20.95	20.96	21.03	22	2	
20	64QAM	50	0	19.71	19.67	19.81			
20	64QAM	50	24	19.78	19.73	19.90			
20	64QAM	50	50	19.79	19.78	19.93			
20	64QAM	100	0	19.75	19.71	19.78	21	3	
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.52	22.49	22.56	24	0	
15	QPSK	1	97	22.66	22.63	22.63			
15	QPSK	1	74	22.50	22.50	22.45			
15	QPSK	36	0	21.70	21.65	21.56			
15	QPSK	36	20	21.71	21.77	21.63	23	1	
15	QPSK	36	39	21.77	21.67	21.61			
15	QPSK	75	0	21.70	21.71	21.69			
15	16QAM	1	0	21.92	21.82	21.78			
15	16QAM	1	97	22.11	22.04	22.05	23	1	
15	16QAM	1	74	21.81	21.90	21.79			
15	16QAM	36	0	20.77	20.75	20.74			
15	16QAM	36	20	20.76	20.69	20.65			
15	16QAM	36	39	20.77	20.68	20.75	22	2	
15	16QAM	75	0	20.67	20.65	20.63			
15	64QAM	1	0	20.83	20.78	20.79			
15	64QAM	1	37	20.92	20.89	20.84			
15	64QAM	1	74	20.95	20.86	20.91	22	2	
15	64QAM	36	0	19.70	19.63	19.61			
15	64QAM	36	20	19.78	19.78	19.72			
15	64QAM	36	39	19.81	19.71	19.77			
15	64QAM	75	0	19.73	19.73	19.61	21	3	
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.62	22.54	22.49	24	0	
10	QPSK	1	25	22.70	22.68	22.62			
10	QPSK	1	49	22.50	22.51	22.50			
10	QPSK	25	0	21.75	21.70	21.65			
10	QPSK	25	12	21.73	21.74	21.69	23	1	
10	QPSK	25	25	21.73	21.66	21.62			
10	QPSK	50	0	21.72	21.65	21.66			
10	16QAM	1	0	21.84	21.83	21.83			
10	16QAM	1	25	22.08	22.01	22.06	23	1	
10	16QAM	1	49	21.81	21.83	21.83			
10	16QAM	25	0	20.71	20.65	20.72			
10	16QAM	25	12	20.73	20.70	20.72			
10	16QAM	25	25	20.71	20.63	20.75	22	2	
10	16QAM	50	0	20.64	20.63	20.70			
10	64QAM	1	0	20.80	20.77	20.84			
10	64QAM	1	25	20.94	20.88	20.84			
10	64QAM	1	49	20.88	20.91	20.89	22	2	
10	64QAM	25	0	19.74	19.69	19.67			
10	64QAM	25	12	19.77	19.78	19.69			
10	64QAM	25	25	19.81	19.76	19.70			
10	64QAM	50	0	19.72	19.71	19.71	21	3	
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.55	22.50	22.53	24	0	
5	QPSK	1	12	22.71	22.65	22.69			
5	QPSK	1	24	22.53	22.42	22.45			
5	QPSK	12	0	21.73	21.75	21.58			
5	QPSK	12	7	21.69	21.76	21.60	23	1	
5	QPSK	12	13	21.70	21.67	21.63			
5	QPSK	25	0	21.72	21.64	21.68			
5	16QAM	1	0	21.92	21.75	21.77			
5	16QAM	1	12	22.12	22.02	22.11	23	1	
5	16QAM	1	24	21.85	21.83	21.83			
5	16QAM	12	0	20.74	20.75	20.72			
5	16QAM	12	7	20.80	20.75	20.71			
5	16QAM	12	13	20.72	20.68	20.71	22	2	
5	16QAM	25	0	20.65	20.62	20.67			
5	64QAM	1	0	20.87	20.76	20.79			
5	64QAM	1	12	20.95	20.90	20.92			
5	64QAM	1	24	20.90	20.93	20.89	22	2	
5	64QAM	12	0	19.76	19.71	19.61			
5	64QAM	12	7	19.82	19.77	19.65			
5	64QAM	12	13	19.78	19.75	19.72			
5	64QAM	25	0	19.68	19.69	19.63	21	3	
Channel				20750	21100	21450			
Frequency (MHz)				2500	2535	2570			



Band 2													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)					
Channel				1870.0	1890.0	1910.0							
Frequency (MHz)				1860	1880	1900							
20	QPSK	1	0	18.90	18.58	18.57	20	0					
20	QPSK	1	49	18.67	18.57	18.45							
20	QPSK	1	99	18.52	18.44	18.42							
20	QPSK	50	0	18.86	18.63	18.63	20	0					
20	QPSK	50	24	18.62	18.39	18.37							
20	QPSK	50	50	18.46	18.36	18.36							
20	QPSK	100	0	18.58	18.37	18.40	20	0					
20	16QAM	1	0	18.69	18.46	18.45							
20	16QAM	1	49	18.58	18.41	18.37							
20	16QAM	1	99	18.44	18.32	18.32	20	0					
20	16QAM	50	0	18.63	18.40	18.39							
20	16QAM	50	24	18.62	18.42	18.40							
20	16QAM	50	50	18.47	18.38	18.39	20	0					
20	16QAM	100	0	18.57	18.36	18.38							
20	64QAM	1	0	18.76	18.49	18.60	20	0					
20	64QAM	1	49	18.65	18.59	18.50							
20	64QAM	1	99	18.50	18.43	18.42							
20	64QAM	50	0	18.66	18.43	18.43	20	0					
20	64QAM	50	24	18.63	18.44	18.44							
20	64QAM	50	50	18.50	18.40	18.42							
20	64QAM	100	0	18.61	18.42	18.41							
Channel				1857.5	1890.0	1912.5	Tune-up limit (dBm)						
Frequency (MHz)				1857.5	1880	1902.5							
15	QPSK	1	0	18.85	18.55	18.47	20	0					
15	QPSK	1	37	18.61	18.51	18.35							
15	QPSK	1	74	18.42	18.40	18.42							
15	QPSK	36	0	18.86	18.53	18.58	20	0					
15	QPSK	36	20	18.59	18.32	18.31							
15	QPSK	36	39	18.41	18.33	18.26							
15	QPSK	75	0	18.49	18.33	18.34	20	0					
15	16QAM	1	0	18.64	18.40	18.39							
15	16QAM	1	37	18.56	18.39	18.37							
15	16QAM	1	74	18.39	18.30	18.29	20	0					
15	16QAM	36	0	18.57	18.34	18.39							
15	16QAM	36	20	18.55	18.42	18.40							
15	16QAM	36	39	18.37	18.37	18.30	20	0					
15	16QAM	75	0	18.51	18.36	18.35							
15	64QAM	1	0	18.69	18.49	18.57	20	0					
15	64QAM	1	37	18.64	18.57	18.43							
15	64QAM	1	74	18.46	18.42	18.39							
15	64QAM	36	0	18.56	18.33	18.39	20	0					
15	64QAM	36	20	18.58	18.39	18.43							
15	64QAM	36	39	18.47	18.38	18.32							
15	64QAM	75	0	18.55	18.42	18.36							
Channel				1855.0	1890.0	1915.0	Tune-up limit (dBm)						
Frequency (MHz)				1855	1880	1905							
10	QPSK	1	0	18.87	18.56	18.53	20	0					
10	QPSK	1	25	18.63	18.48	18.36							
10	QPSK	1	49	18.46	18.40	18.41							
10	QPSK	25	0	18.80	18.53	18.56	20	0					
10	QPSK	25	12	18.54	18.29	18.32							
10	QPSK	25	25	18.41	18.29	18.25							
10	QPSK	50	0	18.55	18.29	18.37	20	0					
10	16QAM	1	0	18.67	18.44	18.36							
10	16QAM	1	25	18.54	18.38	18.35							
10	16QAM	1	49	18.38	18.27	18.32	20	0					
10	16QAM	25	0	18.53	18.37	18.34							
10	16QAM	25	12	18.61	18.41	18.33							
10	16QAM	25	25	18.44	18.29	18.29	20	0					
10	16QAM	50	0	18.52	18.31	18.29							
10	64QAM	1	0	18.67	18.39	18.56							
10	64QAM	1	25	18.60	18.52	18.48	20	0					
10	64QAM	1	49	18.49	18.42	18.38							
10	64QAM	25	0	18.63	18.42	18.34							
10	64QAM	25	12	18.56	18.43	18.38	20	0					
10	64QAM	25	25	18.50	18.31	18.35							
10	64QAM	50	0	18.59	18.34	18.39							
Channel				1852.5	1890.0	1917.5	Tune-up limit (dBm)						
Frequency (MHz)				1852.5	1880	1907.5							
5	QPSK	1	0	18.82	18.51	18.47	20	0					
5	QPSK	1	12	18.57	18.53	18.36							
5	QPSK	1	24	18.52	18.41	18.36							
5	QPSK	12	0	18.82	18.62	18.56	20	0					
5	QPSK	12	7	18.56	18.29	18.32							
5	QPSK	12	13	18.40	18.34	18.33							
5	QPSK	25	0	18.48	18.31	18.35	20	0					
5	16QAM	1	0	18.61	18.36	18.40							
5	16QAM	1	12	18.50	18.32	18.34							
5	16QAM	1	24	18.44	18.23	18.29	20	0					
5	16QAM	12	0	18.59	18.39	18.39							
5	16QAM	12	7	18.58	18.42	18.36							
5	16QAM	12	13	18.47	18.32	18.36	20	0					
5	16QAM	25	0	18.53	18.27	18.28							
5	64QAM	1	0	18.69	18.48	18.50							
5	64QAM	1	12	18.60	18.50	18.47	20	0					
5	64QAM	1	24	18.46	18.41	18.34							
5	64QAM	12	0	18.62	18.34	18.41							
5	64QAM	12	7	18.62	18.44	18.36	20	0					
5	64QAM	12	13	18.42	18.40	18.35							
5	64QAM	25	0	18.59	18.35	18.38							
Channel				1851.5	1890.0	1918.5	Tune-up limit (dBm)						
Frequency (MHz)				1851.5	1880	1908.5							
3	QPSK	1	0	18.86	18.54	18.52	20	0					
3	QPSK	1	8	18.59	18.51	18.36							
3	QPSK	1	14	18.50	18.38	18.42							
3	QPSK	8	0	18.77	18.63	18.57	20	0					
3	QPSK	8	4	18.58	18.39	18.33							
3	QPSK	8	7	18.36	18.26	18.29							
3	QPSK	15	0	18.50	18.33	18.36	20	0					
3	16QAM	1	0	18.68	18.42	18.43							
3	16QAM	1	8	18.56	18.36	18.27							
3	16QAM	1	14	18.37	18.27	18.27	20	0					
3	16QAM	8	0	18.59	18.36	18.37							
3	16QAM	8	4	18.53	18.32	18.36							
3	16QAM	8	7	18.46	18.35	18.34	20	0					
3	16QAM	15	0	18.51	18.34	18.37							
3	64QAM	1	0	18.67	18.46	18.57							
3	64QAM	1	8	18.62	18.51	18.46	20	0					
3	64QAM	1	14	18.42	18.34	18.40							
3	64QAM	8	0	18.60	18.35	18.37							
3	64QAM	8	4	18.52	18.34	18.37	20	0					
3	64QAM	8	7	18.49	18.38	18.34							
3	64QAM	15	0	18.51	18.34	18.37							
3	64QAM	1	0	18.67	18.46	18.57	20	0					
3	64QAM	1	8	18.62	18.51	18.46							
3	64QAM	1	14	18.42	18.34	18.40							
3	64QAM	8	0	18.60	18.35	18.37	20	0					
3	64QAM	8	4	18.52	18.34	18.37							
3	64QAM	8	7	18.49	18.38	18.34							
3	64QAM	15	0	18.51	18.34	18.37	20	0					
3	64QAM	1	0	18.67	18.46	18.57							
3	64QAM	1	8	18.62	18.51	18.46							
3	64QAM	1	14	18.42	18.34	18.40	20	0					
3	64QAM	8	0	18.60	18.35	18.37							
3	64QAM	8	4	18.52	18.34	18.37							
3	64QAM	8	7	18.49	18.38	18.34	20	0					
3	64QAM	15	0	18.51	18.34	18.37							
3	64QAM	1	0	18.67	18.46	18.57							
3	64QAM	1	8	18.62	18.51	18.46	20	0					
3	64QAM	1	14	18.42	18.34	18.40							
3	64QAM	8	0	18.60	18.35	18.37							
3	64QAM	8	4	18.52	18.34	18.37	20	0					
3	64QAM	8	7	18.49	18.38	18.34							
3	64QAM	15	0	18.51	18.34	18.37							
3	64QAM	1	0	18.67	18.46	18.57	20	0					
3	64QAM	1	8	18.62	18.51	18.46							
3	64QAM	1	14	18.42	18.34	18.40							
3	64QAM	8	0	18.60	18.35	18.37	20	0					
3	64QAM	8	4	18.52	18.34	18.37							
3	64QAM	8	7	18.49	18.38	18.34							
3	64QAM	15	0	18.51	18.34	18.37	20	0					
3	64QAM	1	0	18.67	18.46	18.57							
3	64QAM	1	8	18.62	18.51	18.46							
3	64QAM	1	14	18.42	18.34	18.40	20	0					
3	64QAM	8	0	18.60	18.35	18.37							
3	64QAM	8	4	18.52	18.34	18.37							
3	64QAM	8	7	18.49	18.38	18.34	20	0					
3	64QAM	15	0	18.51	18.34	18.37							
3	64QAM	1	0	18.67	18.46	18.57							
3	64QAM	1	8	18.62	18.51	18.46	20	0					
3	64QAM	1	14	18.42	18.34	18.40							
3	64QAM	8	0	18.60	18.35	18.37							
3	64QAM	8	4	18.52	18.34	18.37	20	0					
3	64QAM	8	7	18.49	18.38	18.34							
3	64QAM	15	0	18.51	18.34	18.37							
3	64QAM	1	0	18.67	18.46	18.57	20	0					
3	64QAM	1	8	18.62	18.51	18.46							
3	64QAM	1	14	18.42	18.34	18.40							
3	64QAM	8	0	18.60	18.35	18.37	20	0					
3	64QAM	8	4	18.52	18.34	18.37							
3	64QAM	8	7	18.49	18.38	18.34							
3	64QAM	15	0	18.51	18.34	18.37	20	0					
3	64QAM	1	0	18.67	18.46	18.57							
3	64QAM	1	8										



Band 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. Ch. / Power	Tune-up limit (dBm)	MPR (dB)		
Channel				2000	2017.5	20300				
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	19.91	19.89	19.80	21	0		
20	QPSK	1	49	19.76	19.67	19.65				
20	QPSK	1	99	19.71	19.64	19.57				
20	QPSK	50	0	19.65	19.60	19.50	21	0		
20	QPSK	50	24	19.60	19.52	19.41				
20	QPSK	50	50	19.51	19.41	19.38				
20	QPSK	100	0	19.55	19.50	19.39	21	0		
20	16QAM	1	0	19.55	19.54	19.44				
20	16QAM	1	49	19.39	19.32	19.26				
20	16QAM	1	99	19.36	19.24	19.20	21	0		
20	16QAM	50	0	19.60	19.60	19.50				
20	16QAM	50	24	19.64	19.57	19.43				
20	16QAM	50	50	19.57	19.46	19.39	21	0		
20	16QAM	100	0	19.60	19.53	19.41				
20	64QAM	1	0	19.79	19.79	19.70	21	0		
20	64QAM	1	49	19.65	19.57	19.52				
20	64QAM	1	99	19.58	19.52	19.47				
20	64QAM	50	0	19.65	19.67	19.53	21	0		
20	64QAM	50	24	19.66	19.57	19.44				
20	64QAM	50	50	19.57	19.46	19.44				
20	64QAM	100	0	19.65	19.57	19.45				
Channel				20005 <th>20175</th> <th>20325</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	20175	20325	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1732.5	1747.5				
15	QPSK	1	0	19.47	19.51	19.35	21	0		
15	QPSK	1	37	19.35	19.26	19.26				
15	QPSK	1	74	19.29	19.24	19.15				
15	QPSK	36	0	19.50	19.57	19.42	21	0		
15	QPSK	36	20	19.59	19.44	19.32				
15	QPSK	36	39	19.41	19.31	19.36				
15	QPSK	75	0	19.53	19.51	19.38	21	0		
15	16QAM	1	0	19.89	19.79	19.72				
15	16QAM	1	37	19.75	19.67	19.62				
15	16QAM	1	74	19.70	19.62	19.49	21	0		
15	16QAM	36	0	19.60	19.64	19.47				
15	16QAM	36	20	19.63	19.51	19.36				
15	16QAM	36	39	19.48	19.43	19.37	21	0		
15	16QAM	75	0	19.50	19.49	19.34				
15	64QAM	1	0	19.72	19.75	19.68	21	0		
15	64QAM	1	37	19.60	19.49	19.43				
15	64QAM	1	74	19.51	19.43	19.46				
15	64QAM	36	0	19.58	19.61	19.45	21	0		
15	64QAM	36	20	19.57	19.50	19.37				
15	64QAM	36	39	19.54	19.40	19.38				
15	64QAM	75	0	19.62	19.53	19.44				
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1732.5	1750				
10	QPSK	1	0	19.50	19.53	19.34	21	0		
10	QPSK	1	25	19.36	19.24	19.25				
10	QPSK	1	49	19.35	19.16	19.19				
10	QPSK	25	0	19.60	19.60	19.49	21	0		
10	QPSK	25	12	19.59	19.46	19.40				
10	QPSK	25	25	19.47	19.35	19.34				
10	QPSK	50	0	19.49	19.48	19.36	21	0		
10	16QAM	1	0	19.88	19.82	19.76				
10	16QAM	1	25	19.69	19.59	19.55				
10	16QAM	1	49	19.65	19.64	19.47	21	0		
10	16QAM	25	0	19.60	19.57	19.45				
10	16QAM	25	12	19.60	19.53	19.41				
10	16QAM	25	25	19.54	19.40	19.35	21	0		
10	16QAM	50	0	19.56	19.51	19.37				
10	64QAM	1	0	19.72	19.72	19.60				
10	64QAM	1	25	19.57	19.53	19.53	21	0		
10	64QAM	1	49	19.58	19.48	19.40				
10	64QAM	25	0	19.56	19.63	19.50				
10	64QAM	25	12	19.61	19.49	19.35	21	0		
10	64QAM	25	25	19.47	19.41	19.34				
10	64QAM	50	0	19.64	19.48	19.38				
Channel				19975	20151	20325	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1732.5	1752.5				
5	QPSK	1	0	19.52	19.49	19.35	21	0		
5	QPSK	1	12	19.30	19.27	19.22				
5	QPSK	1	24	19.31	19.14	19.19				
5	QPSK	12	0	19.57	19.59	19.47	21	0		
5	QPSK	12	7	19.60	19.50	19.34				
5	QPSK	12	13	19.42	19.39	19.37				
5	QPSK	25	0	19.48	19.43	19.35	21	0		
5	16QAM	1	0	19.82	19.84	19.72				
5	16QAM	1	12	19.74	19.65	19.65				
5	16QAM	1	24	19.64	19.63	19.45	21	0		
5	16QAM	12	0	19.59	19.56	19.41				
5	16QAM	12	7	19.55	19.52	19.39				
5	16QAM	12	13	19.53	19.37	19.33	21	0		
5	16QAM	25	0	19.55	19.50	19.37				
5	64QAM	1	0	19.75	19.69	19.61	21	0		
5	64QAM	1	12	19.64	19.56	19.53				
5	64QAM	1	24	19.56	19.43	19.37				
5	64QAM	12	0	19.56	19.57	19.53	21	0		
5	64QAM	12	7	19.56	19.49	19.38				
5	64QAM	12	13	19.47	19.43	19.34				
5	64QAM	25	0	19.55	19.50	19.37				
Channel				19995	20175	20395	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1710.7	1732.5	1754.3				
3	QPSK	1	0	19.52	19.44	19.38	21	0		
3	QPSK	1	8	19.29	19.23	19.24				
3	QPSK	1	14	19.30	19.22	19.10				
3	QPSK	8	0	19.57	19.60	19.50	21	0		
3	QPSK	8	4	19.60	19.45	19.33				
3	QPSK	8	7	19.43	19.33	19.34				
3	QPSK	15	0	19.53	19.45	19.34	21	0		
3	16QAM	1	0	19.82	19.86	19.77				
3	16QAM	1	8	19.73	19.61	19.61				
3	16QAM	1	14	19.61	19.55	19.48	21	0		
3	16QAM	8	0	19.60	19.56	19.50				
3	16QAM	8	4	19.57	19.57	19.43				
3	16QAM	8	7	19.53	19.43	19.29	21	0		
3	16QAM	15	0	19.56	19.50	19.39				
3	64QAM	1	0	19.77	19.77	19.62				
3	64QAM	1	8	19.57	19.53	19.48	21	0		
3	64QAM	1	14	19.51	19.44	19.44				
3	64QAM	8	0	19.57	19.65	19.52				
3	64QAM	8	4	19.61	19.56	19.42	21	0		
3	64QAM	8	7	19.50	19.38	19.38				
3	64QAM	15	0	19.56	19.55	19.43				
Channel				19997	20175	20393	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1710.7	1732.5	1754.3				
1.4	QPSK	1	0	19.49	19.53	19.43	21	0		
1.4	QPSK	1	3	19.33	19.27	19.16				
1.4	QPSK	1	5	19.31	19.22	19.13				
1.4	QPSK	3	0	19.53	19.52	19.49	21	0		
1.4	QPSK	3	1	19.56	19.48	19.36				
1.4	QPSK	3	3	19.42	19.32	19.37				
1.4	QPSK	6	0	19.54	19.51	19.39	21	0		
1.4	16QAM	1	0	19.81	19.87	19.73				
1.4	16QAM	1	3	19.69	19.63	19.62				
1.4	16QAM	1	5	19.63	19.55	19.47	21	0		
1.4	16QAM	3	0	19.54	19.61	19.41				
1.4	16QAM	3	1	19.64	19.56	19.35				
1.4	16QAM	3	3	19.55	19.37	19.30	21	0		
1.4	16QAM	3	1	19.61	19.48	19.39				
1.4	16QAM	3	3	19.54	19.48	19.39				
1.4	64QAM	1	0	19.74	19.77	19.69	21	0		
1.4	64QAM	1	3	19.58	19.53	19.45				
1.4	64QAM	1	5	19.56	19.49	19.37				
1.4	64QAM	3	0	19.56	19.67	19.52	21	0		
1.4	64QAM	3	1	19.61	19.48	19.34				
1.4	64QAM	3	3	19.53	19.36	19.42				
1.4	64QAM	6	0	19.56	19.48	19.42	21	0		
1.4	64QAM	6	3	19.56	19.48	19.42				
1.4	64QAM	6	6	19.56	19.48	19.42				



Band 5											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)			
Channel				20490	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	19.67	19.75	19.69	21	0			
10	QPSK	1	25	19.63	19.60	19.66					
10	QPSK	1	49	19.57	19.57	19.61					
10	QPSK	25	0	19.53	19.57	19.52	21	0			
10	QPSK	25	12	19.58	19.56	19.53					
10	QPSK	25	25	19.56	19.55	19.55					
10	QPSK	50	0	19.59	19.54	19.51	21	0			
10	16QAM	1	0	19.52	19.51	19.54					
10	16QAM	1	25	19.48	19.50	19.47					
10	16QAM	1	49	19.44	19.45	19.50	21	0			
10	16QAM	25	0	19.49	19.53	19.47					
10	16QAM	25	12	19.60	19.62	19.52					
10	16QAM	25	25	19.54	19.55	19.55	21	0			
10	16QAM	50	0	19.59	19.53	19.50					
10	64QAM	1	0	19.58	19.52	19.56	21	0			
10	64QAM	1	25	19.59	19.63	19.51					
10	64QAM	1	49	19.58	19.58	19.60					
10	64QAM	25	0	19.56	19.58	19.55	21	0			
10	64QAM	25	12	19.62	19.68	19.55					
10	64QAM	25	25	19.61	19.62	19.58					
10	64QAM	50	0	19.62	19.58	19.54					
Channel				20425	20525	20625	Tune-up limit (dBm)				
Frequency (MHz)				828.5	836.5	846.5	MPR (dB)				
5	QPSK	1	0	19.64	19.73	19.60	21	0			
5	QPSK	1	12	19.58	19.55	19.66					
5	QPSK	1	24	19.52	19.48	19.53					
5	QPSK	12	0	19.48	19.49	19.46	21	0			
5	QPSK	12	7	19.52	19.61	19.51					
5	QPSK	12	13	19.47	19.51	19.53					
5	QPSK	25	0	19.51	19.45	19.44	21	0			
5	16QAM	1	0	19.51	19.48	19.45					
5	16QAM	1	12	19.39	19.49	19.44					
5	16QAM	1	24	19.42	19.37	19.46	21	0			
5	16QAM	12	0	19.43	19.49	19.39					
5	16QAM	12	7	19.58	19.55	19.46					
5	16QAM	12	13	19.53	19.54	19.50	21	0			
5	16QAM	25	0	19.57	19.48	19.47					
5	64QAM	1	0	19.50	19.52	19.50	21	0			
5	64QAM	1	12	19.55	19.56	19.51					
5	64QAM	1	24	19.57	19.53	19.57					
5	64QAM	12	0	19.51	19.48	19.53	21	0			
5	64QAM	12	7	19.59	19.59	19.49					
5	64QAM	12	13	19.54	19.56	19.48					
5	64QAM	25	0	19.58	19.50	19.54					
Channel				20415	20525	20635	Tune-up limit (dBm)				
Frequency (MHz)				825.5	836.5	847.5	MPR (dB)				
3	QPSK	1	0	19.61	19.68	19.68	21	0			
3	QPSK	1	8	19.57	19.60	19.57					
3	QPSK	1	14	19.49	19.47	19.54					
3	QPSK	8	0	19.42	19.43	19.42	21	0			
3	QPSK	8	4	19.58	19.54	19.44					
3	QPSK	8	7	19.47	19.48	19.54					
3	QPSK	15	0	19.50	19.54	19.46	21	0			
3	16QAM	1	0	19.49	19.44	19.54					
3	16QAM	1	8	19.41	19.40	19.40					
3	16QAM	1	14	19.40	19.44	19.41	21	0			
3	16QAM	8	0	19.40	19.47	19.41					
3	16QAM	8	4	19.52	19.54	19.51					
3	16QAM	8	7	19.52	19.47	19.48	21	0			
3	16QAM	15	0	19.55	19.45	19.49					
3	64QAM	1	0	19.52	19.43	19.48	21	0			
3	64QAM	1	8	19.54	19.63	19.55					
3	64QAM	1	14	19.54	19.57	19.57					
3	64QAM	8	0	19.51	19.48	19.54	21	0			
3	64QAM	8	4	19.58	19.58	19.53					
3	64QAM	8	7	19.53	19.60	19.55					
3	64QAM	15	0	19.55	19.54	19.54					
Channel				20407	20525	20643	Tune-up limit (dBm)				
Frequency (MHz)				824.7	836.5	848.3	MPR (dB)				
1.4	QPSK	1	0	19.64	19.74	19.64	21	0			
1.4	QPSK	1	3	19.53	19.56	19.56					
1.4	QPSK	1	5	19.52	19.57	19.61					
1.4	QPSK	3	0	19.46	19.43	19.51	21	0			
1.4	QPSK	3	1	19.56	19.52	19.52					
1.4	QPSK	3	3	19.52	19.52	19.53					
1.4	QPSK	6	0	19.59	19.54	19.50	21	0			
1.4	16QAM	1	0	19.44	19.43	19.48					
1.4	16QAM	1	3	19.40	19.50	19.41					
1.4	16QAM	1	5	19.35	19.42	19.46	21	0			
1.4	16QAM	3	0	19.41	19.50	19.46					
1.4	16QAM	3	1	19.57	19.55	19.46					
1.4	16QAM	3	3	19.44	19.55	19.52	21	0			
1.4	16QAM	6	0	19.59	19.44	19.46					
1.4	64QAM	1	0	19.52	19.45	19.55					
1.4	64QAM	1	3	19.49	19.56	19.61	21	0			
1.4	64QAM	1	5	19.49	19.53	19.60					
1.4	64QAM	3	0	19.47	19.57	19.55					
1.4	64QAM	3	1	19.53	19.68	19.45	21	0			
1.4	64QAM	3	3	19.54	19.54	19.56					
1.4	64QAM	6	0	19.59	19.48	19.48					



Band 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)	
Channel				2050	2535	2560	17.5	0	
Frequency (MHz)				2050	2535	2560			
20	QPSK	1	0	16.58	16.56	16.66			
20	QPSK	1	49	16.47	16.58	16.56	17.5	0	
20	QPSK	1	99	16.52	16.63	16.53			
20	QPSK	50	0	16.21	16.25	16.32			
20	QPSK	50	24	16.01	16.04	16.03	17.5	0	
20	QPSK	50	50	16.00	16.10	16.02			
20	QPSK	100	0	15.90	16.00	16.01			
20	16QAM	1	0	16.14	16.13	16.21	17.5	0	
20	16QAM	1	49	16.19	16.27	16.25			
20	16QAM	1	99	16.22	16.36	16.23			
20	16QAM	50	0	15.93	16.01	15.99	17.5	0	
20	16QAM	50	24	16.01	16.07	16.05			
20	16QAM	50	50	16.06	16.15	16.05			
20	16QAM	100	0	15.92	15.97	16.00	17.5	0	
20	64QAM	1	0	15.96	15.96	16.04			
20	64QAM	1	49	16.07	16.20	16.13			
20	64QAM	1	99	16.08	16.26	16.07	17.5	0	
20	64QAM	50	0	15.93	15.98	16.02			
20	64QAM	50	24	16.05	16.08	16.08			
20	64QAM	50	50	16.04	16.11	16.04	17.5	0	
20	64QAM	100	0	15.94	16.02	16.00			
Channel				20825	21100	21375	17.5	0	
Frequency (MHz)				20825	21100	21375			
15	QPSK	1	0	16.49	16.49	16.62			
15	QPSK	1	37	16.40	16.55	16.55	17.5	0	
15	QPSK	1	74	16.44	16.63	16.48			
15	QPSK	36	0	16.20	16.23	16.23	17.5	0	
15	QPSK	36	20	15.99	15.94	16.03			
15	QPSK	36	39	15.96	16.09	16.02			
15	QPSK	75	0	15.89	15.98	15.99	17.5	0	
15	16QAM	1	0	16.06	16.07	16.18			
15	16QAM	1	37	16.17	16.26	16.15			
15	16QAM	1	74	16.22	16.32	16.17	17.5	0	
15	16QAM	36	0	15.92	15.92	15.96			
15	16QAM	36	20	15.96	16.01	15.96			
15	16QAM	36	39	15.96	16.06	16.02	17.5	0	
15	16QAM	75	0	15.90	15.92	15.99			
15	64QAM	1	0	15.88	15.86	16.02			
15	64QAM	1	37	16.00	16.16	16.10	17.5	0	
15	64QAM	1	74	16.04	16.18	15.97			
15	64QAM	36	0	15.90	15.88	15.99			
15	64QAM	36	20	16.04	15.99	16.08	17.5	0	
15	64QAM	36	39	16.02	16.01	16.02			
15	64QAM	75	0	15.86	16.01	15.97			
Channel				20900	21100	21400	17.5	0	
Frequency (MHz)				20900	21100	21400			
10	QPSK	1	0	16.55	16.56	16.57			
10	QPSK	1	25	16.39	16.49	16.53	17.5	0	
10	QPSK	1	49	16.52	16.58	16.45			
10	QPSK	25	0	16.14	16.20	16.25	17.5	0	
10	QPSK	25	12	15.93	16.02	15.94			
10	QPSK	25	25	15.96	16.03	15.92			
10	QPSK	50	0	15.81	15.91	16.01	17.5	0	
10	16QAM	1	0	16.06	16.12	16.14			
10	16QAM	1	25	16.13	16.25	16.21			
10	16QAM	1	49	16.12	16.32	16.17	17.5	0	
10	16QAM	25	0	15.85	15.94	15.96			
10	16QAM	25	12	15.93	16.07	16.05			
10	16QAM	25	25	15.97	16.13	16.02	17.5	0	
10	16QAM	50	0	15.85	15.87	15.90			
10	64QAM	1	0	15.89	15.93	15.96			
10	64QAM	1	25	15.98	16.19	16.10	17.5	0	
10	64QAM	1	49	16.01	16.21	16.02			
10	64QAM	25	0	15.89	15.88	15.98			
10	64QAM	25	12	16.05	15.99	16.03	17.5	0	
10	64QAM	25	25	15.97	16.11	16.02			
10	64QAM	50	0	15.94	15.94	15.91			
Channel				20775	21100	21450	17.5	0	
Frequency (MHz)				20775	21100	21450			
5	QPSK	1	0	16.53	16.51	16.65			
5	QPSK	1	12	16.46	16.51	16.51	17.5	0	
5	QPSK	1	24	16.47	16.55	16.49			
5	QPSK	12	0	16.14	16.17	16.26	17.5	0	
5	QPSK	12	7	15.96	16.03	15.94			
5	QPSK	12	13	16.00	16.10	15.96			
5	QPSK	25	0	15.85	15.92	15.94	17.5	0	
5	16QAM	1	0	16.12	16.05	16.19			
5	16QAM	1	12	16.10	16.24	16.23			
5	16QAM	1	24	16.15	16.30	16.14	17.5	0	
5	16QAM	12	0	15.83	15.92	15.91			
5	16QAM	12	7	15.96	16.02	15.96			
5	16QAM	12	13	16.00	16.07	16.05	17.5	0	
5	16QAM	25	0	15.84	15.93	15.90			
5	64QAM	1	0	15.95	15.91	16.00			
5	64QAM	1	12	16.06	16.20	16.04	17.5	0	
5	64QAM	1	24	15.98	16.23	15.99			
5	64QAM	12	0	15.85	15.92	15.93			
5	64QAM	12	7	15.96	16.08	15.99	17.5	0	
5	64QAM	12	13	15.96	16.11	15.99			
5	64QAM	25	0	15.90	16.00	15.99			



Band 2											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Power	Power Middle Ch / Power	Power High Ch / Power	Tune-up limit (dBm)	MPR (dB)			
Channel				1870.0	1890.0	1910.0					
Frequency (MHz)				1860	1880	1900					
20	QPSK	1	0	23.84	23.91	23.65	25	0			
20	QPSK	1	49	23.86	23.84	23.70					
20	QPSK	1	99	23.90	23.76	23.61					
20	QPSK	50	0	22.89	23.10	22.85	24	1			
20	QPSK	50	24	22.87	23.05	22.82					
20	QPSK	50	50	22.84	22.89	22.65					
20	QPSK	100	0	22.89	23.10	22.74	24	1			
20	16QAM	1	0	23.47	23.18	23.18					
20	16QAM	1	49	23.06	23.11	22.60					
20	16QAM	1	99	23.48	23.27	23.22	23	2			
20	16QAM	50	0	22.04	21.89	21.71					
20	16QAM	50	24	22.07	21.84	21.78					
20	16QAM	50	50	21.92	21.87	21.80	23	2			
20	64QAM	1	0	22.18	21.80	22.11					
20	64QAM	1	49	21.80	21.80	21.95					
20	64QAM	1	99	22.13	22.09	22.03	22	3			
20	64QAM	50	0	21.17	20.86	20.83					
20	64QAM	50	24	21.09	20.92	20.82					
20	64QAM	50	50	20.92	20.88	20.77					
20	64QAM	100	0	21.12	20.88	20.82					
Channel				1867.5	1890.0	1912.5	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1867.5	1880	1902.5					
15	QPSK	1	0	23.49	23.28	23.30	25	0			
15	QPSK	1	37	23.75	23.85	23.64					
15	QPSK	1	74	23.63	23.74	23.75					
15	QPSK	36	0	22.95	23.04	22.84	24	1			
15	QPSK	36	20	22.90	22.85	22.79					
15	QPSK	36	39	22.82	22.81	22.81					
15	QPSK	75	0	22.85	22.89	22.84	24	1			
15	16QAM	1	0	23.02	23.44	22.94					
15	16QAM	1	37	23.13	23.42	22.99					
15	16QAM	1	74	22.88	23.14	23.25	23	2			
15	16QAM	36	0	22.11	21.95	21.89					
15	16QAM	36	20	21.90	21.81	21.87					
15	16QAM	36	39	21.89	21.85	21.82	23	2			
15	16QAM	75	0	22.03	21.82	21.78					
15	64QAM	1	0	22.09	21.95	22.09					
15	64QAM	1	37	22.15	22.16	21.99	22	2			
15	64QAM	1	74	22.14	22.08	21.93					
15	64QAM	36	0	20.84	20.88	20.97					
15	64QAM	36	20	21.03	20.89	20.85	22	3			
15	64QAM	36	39	20.92	20.88	20.90					
15	64QAM	75	0	21.02	20.82	20.76					
Channel				1865.0	1890.0	1915.0	Tune-up limit (dBm)		MPR (dB)		
Frequency (MHz)				1865	1880	1905					
10	QPSK	1	0	23.66	23.73	23.51	25	0			
10	QPSK	1	25	23.79	23.81	23.70					
10	QPSK	1	49	23.67	23.70	23.57					
10	QPSK	25	0	22.91	22.85	22.69	24	1			
10	QPSK	25	12	22.96	22.91	22.65					
10	QPSK	25	25	22.92	22.84	22.83					
10	QPSK	50	0	22.84	22.83	22.72	24	1			
10	16QAM	1	0	23.11	23.23	23.12					
10	16QAM	1	25	23.07	23.12	22.64					
10	16QAM	1	49	23.18	23.12	23.10	23	2			
10	16QAM	25	0	22.04	21.78	21.70					
10	16QAM	25	12	21.79	21.91	21.71					
10	16QAM	25	25	21.83	21.92	21.74	23	2			
10	16QAM	50	0	21.85	21.85	21.65					
10	64QAM	1	0	21.97	21.95	21.65					
10	64QAM	1	25	22.27	22.38	22.27	23	2			
10	64QAM	1	49	21.98	22.07	21.63					
10	64QAM	25	0	20.84	20.90	20.70					
10	64QAM	25	12	20.90	20.95	20.75	22	3			
10	64QAM	25	25	20.95	20.83	20.78					
10	64QAM	50	0	20.88	20.93	20.73					
Channel				1862.5	1890.0	1917.5	Tune-up limit (dBm)		MPR (dB)		
Frequency (MHz)				1862.5	1880	1907.5					
5	QPSK	1	0	23.67	23.63	23.57	25	0			
5	QPSK	1	12	23.75	23.78	23.81					
5	QPSK	1	24	23.83	23.76	23.62					
5	QPSK	12	0	22.95	22.84	22.59	24	1			
5	QPSK	12	7	22.90	22.87	22.75					
5	QPSK	12	13	22.95	22.80	22.73					
5	QPSK	25	0	22.89	22.81	22.58	24	1			
5	16QAM	1	0	23.06	22.89	22.78					
5	16QAM	1	12	22.84	23.34	22.92					
5	16QAM	1	24	23.26	22.97	22.90	23	2			
5	16QAM	12	0	21.94	21.84	21.83					
5	16QAM	12	7	21.98	21.91	21.78					
5	16QAM	12	13	21.86	21.82	21.73	23	2			
5	16QAM	25	0	21.97	21.85	21.61					
5	64QAM	1	0	21.97	22.13	22.01					
5	64QAM	1	12	22.06	21.98	21.97	22	2			
5	64QAM	1	24	22.22	22.16	21.91					
5	64QAM	12	0	21.00	20.90	20.68					
5	64QAM	12	7	21.01	20.91	20.85	22	3			
5	64QAM	12	13	21.03	20.88	20.83					
5	64QAM	25	0	20.93	20.90	20.67					
Channel				1861.5	1890.0	1918.5	Tune-up limit (dBm)		MPR (dB)		
Frequency (MHz)				1861.5	1880	1908.5					
3	QPSK	1	0	23.79	23.72	23.68	25	0			
3	QPSK	1	8	23.79	23.86	23.61					
3	QPSK	1	14	23.71	23.72	23.55					
3	QPSK	8	0	22.84	22.85	22.64	24	1			
3	QPSK	8	4	22.80	22.91	22.71					
3	QPSK	8	7	22.83	22.85	22.71					
3	QPSK	15	0	22.92	22.87	22.74	24	1			
3	16QAM	1	0	23.35	22.88	22.95					
3	16QAM	1	8	23.45	23.08	22.96					
3	16QAM	1	14	23.29	23.32	23.04	23	2			
3	16QAM	8	0	21.93	21.95	21.76					
3	16QAM	8	4	22.04	21.96	21.90					
3	16QAM	8	7	21.92	21.79	21.73	22	3			
3	16QAM	15	0	21.82	21.82	21.66					
3	64QAM	1	0	21.72	22.09	21.99					
3	64QAM	1	8	21.96	22.24	21.96	23	2			
3	64QAM	1	14	21.92	21.80	21.90					
3	64QAM	8	0	20.89	20.80	20.83					
3	64QAM	8	4	21.03	21.02	20.74	22	3			
3	64QAM	8	7	20.96	20.88	20.72					
3	64QAM	15	0	20.95	20.92	20.62					
Channel				1860.7 <th>1890.0</th> <th>1919.3</th> <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th colspan="2"></th>	1890.0	1919.3	Tune-up limit (dBm)		MPR (dB)		
Frequency (MHz)				1860.7 <th>1880</th> <th>1909.3<th colspan="4"></th></th>	1880	1909.3 <th colspan="4"></th>					
1.4	QPSK	1	0	23.67	23.67	23.47	25	0			
1.4	QPSK	1	3	23.83	23.87	23.52					
1.4	QPSK	1	6	23.77	23.80	23.62					
1.4	QPSK	3	0	23.71	23.73	23.58	24	1			
1.4	QPSK	3	1	23.82	23.70	23.57					
1.4	QPSK	3	3	23.76	23.66	23.56					
1.4	QPSK	6	0	22.85	22.78	22.61	24	1			
1.4	QPSK	6	1	22.71	22.61	22.79					
1.4	16QAM	1	0	23.29	23.32	22.61					
1.4	16QAM	1	5	23.02	22.89	22.81	23	2			
1.4	16QAM	3	0	22.87	22.75	22.65					
1.4	16QAM	3	1	22.80	22.90	22.71					
1.4	16QAM	3	3	22.68	22.61	22.69	23	2			
1.4	16QAM	6	0	21.87	21.85	21.80					
1.4	16QAM	6	1	22.10	21.98	21.90					
1.4	64QAM	1	3	22.12	22.17	21.72	23	2			
1.4	64QAM	1	6	22.09	22.05	21.73					
1.4	64QAM	3	0	21.99	21.83	21.84					
1.4	64QAM	3	1	22.02	21.99	21.86	22	3			
1.4	64QAM	3	3	22.09	22.02	21.97					
1.4	64QAM	6	0	20.77	20.74	20.55					



Band 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)	
Channel				1700	1732.5	1745	25	0	
Frequency (MHz)				1700	1732.5	1745			
20	QPSK	1	0	23.80	23.82	23.73			
20	QPSK	1	49	23.70	23.78	23.69	24	1	
20	QPSK	1	99	23.67	23.54	23.47			
20	QPSK	50	0	22.87	22.85	22.75			
20	QPSK	50	24	22.82	22.74	22.58	23	2	
20	QPSK	50	50	22.81	22.58	22.54			
20	QPSK	100	0	22.88	22.79	22.71			
20	16QAM	1	0	22.99	22.78	22.89	24	1	
20	16QAM	1	49	22.95	22.99	22.90			
20	16QAM	1	99	22.80	22.84	22.99			
20	16QAM	50	0	21.88	21.92	21.72	23	2	
20	16QAM	50	24	21.88	21.78	21.72			
20	16QAM	50	50	21.80	21.72	21.66			
20	64QAM	1	0	21.12	21.83	21.81	23	2	
20	64QAM	1	49	21.86	21.79	21.86			
20	64QAM	1	99	21.62	21.54	21.65			
20	64QAM	50	0	20.51	20.91	20.80	22	3	
20	64QAM	50	24	20.83	20.76	20.79			
20	64QAM	50	50	20.78	20.61	20.67			
20	64QAM	100	0	20.90	20.81	20.62	20		
Channel				2005	2017.5	2032.5			
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	23.49	23.54	23.41	25	0	
15	QPSK	1	37	23.68	23.59	23.57			
15	QPSK	1	74	23.56	23.58	23.38			
15	QPSK	36	0	22.77	22.81	22.67	24	1	
15	QPSK	36	20	22.89	22.71	22.56			
15	QPSK	36	39	22.66	22.69	22.58			
15	QPSK	75	0	22.74	22.75	22.62	24	1	
15	16QAM	1	0	22.91	22.95	22.90			
15	16QAM	1	37	22.67	22.99	22.87			
15	16QAM	1	74	22.89	22.78	22.87	23	2	
15	16QAM	36	0	21.87	21.86	21.76			
15	16QAM	36	20	21.78	21.81	21.57			
15	16QAM	36	39	21.66	21.70	21.57	23	2	
15	16QAM	75	0	21.69	21.71	21.64			
15	64QAM	1	0	21.06	21.99	21.75			
15	64QAM	1	37	21.73	21.59	21.62	22	3	
15	64QAM	1	74	21.71	21.72	21.80			
15	64QAM	36	0	20.71	20.82	20.73			
15	64QAM	36	20	20.87	20.75	20.64	22	3	
15	64QAM	36	39	20.76	20.71	20.59			
15	64QAM	75	0	20.76	20.73	20.69			
Channel				2000	2037.5	2032.5	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1732.5	1750	25	0	
10	QPSK	1	0	23.68	23.57	23.52			
10	QPSK	1	25	23.79	23.52	23.67	24	1	
10	QPSK	1	49	23.57	23.12	23.72			
10	QPSK	25	0	22.81	22.80	22.69			
10	QPSK	25	12	22.90	22.82	22.70	23	2	
10	QPSK	25	25	22.87	22.71	22.70			
10	QPSK	50	0	22.82	22.86	22.80			
10	16QAM	1	0	22.73	22.99	22.89	24	1	
10	16QAM	1	25	22.90	22.94	22.86			
10	16QAM	1	49	22.82	22.89	22.77			
10	16QAM	25	0	21.90	21.83	21.75	23	2	
10	16QAM	25	12	21.93	21.99	21.89			
10	16QAM	25	25	21.79	21.75	21.70			
10	16QAM	50	0	21.86	21.83	21.82	23	2	
10	64QAM	1	0	21.04	22.00	21.69			
10	64QAM	1	25	21.54	21.99	21.98			
10	64QAM	1	49	21.94	21.96	21.87	22	3	
10	64QAM	25	0	20.33	20.83	20.84			
10	64QAM	25	12	20.65	20.82	20.63			
10	64QAM	25	25	21.00	20.85	20.75	20		
10	64QAM	50	0	20.65	20.86	20.80			
Channel				1692	2037.5	2032.5			
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.54	23.58	23.65	25	0	
5	QPSK	1	12	23.71	23.60	23.57			
5	QPSK	1	24	23.80	23.66	23.53			
5	QPSK	12	0	22.84	22.83	22.70	24	1	
5	QPSK	12	7	22.86	22.83	22.73			
5	QPSK	12	13	22.86	22.71	22.68			
5	QPSK	25	0	22.83	22.73	22.69	24	1	
5	16QAM	1	0	22.83	22.89	22.99			
5	16QAM	1	12	22.98	22.99	22.49			
5	16QAM	1	24	22.99	22.80	22.92	23	2	
5	16QAM	12	0	21.86	21.98	21.70			
5	16QAM	12	7	21.83	21.83	21.76			
5	16QAM	12	13	21.91	21.70	21.85	23	2	
5	16QAM	25	0	21.93	21.74	21.76			
5	64QAM	1	0	21.08	21.99	21.89			
5	64QAM	1	12	21.33	21.97	21.98	23	2	
5	64QAM	1	24	21.36	21.87	21.75			
5	64QAM	12	0	20.21	20.80	20.74			
5	64QAM	12	7	20.21	20.94	20.79	22	3	
5	64QAM	12	13	20.25	20.74	20.77			
5	64QAM	25	0	20.12	20.92	20.75			
Channel				1692	2037.5	2032.5	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1732.5	1753.5	25	0	
3	QPSK	1	0	23.52	23.62	23.53			
3	QPSK	1	8	23.80	23.59	23.59	24	1	
3	QPSK	1	14	23.70	23.55	23.55			
3	QPSK	8	0	22.78	22.77	22.65			
3	QPSK	8	4	22.84	22.72	22.63	24	1	
3	QPSK	8	7	22.83	22.74	22.68			
3	QPSK	15	0	22.79	22.79	22.67			
3	16QAM	1	0	22.86	22.86	22.94	23	2	
3	16QAM	1	8	22.98	22.88	22.99			
3	16QAM	1	14	22.95	22.77	22.98			
3	16QAM	8	0	21.99	21.78	21.72	23	2	
3	16QAM	8	4	21.90	21.80	21.75			
3	16QAM	8	7	21.89	21.85	21.63			
3	16QAM	15	0	21.81	21.72	21.67	22	3	
3	64QAM	1	0	21.29	21.53	21.65			
3	64QAM	1	8	21.38	21.99	21.71			
3	64QAM	1	14	21.07	21.70	21.72	23	2	
3	64QAM	8	0	20.12	20.78	20.60			
3	64QAM	8	4	20.16	20.82	20.76			
3	64QAM	8	7	20.29	20.96	20.81	22	3	
3	64QAM	15	0	20.18	20.89	20.71			
Channel				1692	2037.5	2032.5			
Frequency (MHz)				1710.7	1732.5	1754.3	Tune-up limit (dBm)	MPR (dB)	
1.4	QPSK	1	0	23.44	23.55	23.51	25	0	
1.4	QPSK	1	3	23.48	23.53	23.50			
1.4	QPSK	1	5	23.45	23.55	23.51			
1.4	QPSK	3	0	23.57	23.57	23.52	24	1	
1.4	QPSK	3	1	23.65	23.65	23.50			
1.4	QPSK	3	3	23.62	23.53	23.55			
1.4	16QAM	1	0	22.75	22.72	22.57	24	1	
1.4	16QAM	1	0	22.98	22.86	22.52			
1.4	16QAM	1	3	22.99	23.00	22.68			
1.4	16QAM	3	0	22.76	22.71	22.69	24	1	
1.4	16QAM	3	1	22.77	22.70	22.64			
1.4	16QAM	3	3	22.62	22.67	22.49			
1.4	16QAM	6	0	21.99	21.79	21.64	23	2	
1.4	16QAM	6	1	21.09	21.88	21.92			
1.4	16QAM	1	3	21.33	22.00	21.72			
1.4	64QAM	1	5	21.07	21.88	21.79	23	2	
1.4	64QAM	3	0	21.11	21.81	21.39			
1.4	64QAM	3	1	21.19	21.87	21.49			
1.4	64QAM	3	3	21.09	21.88	21.92	23	2	
1.4	64QAM	6	0	20.70	20.68	20.79			
1.4	64QAM	6	1	20.70	20.68	20.79			



Band 5											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / P _{max}	Power Middle Ch. / P _{max}	Power High Ch. / P _{max}	Tune-up limit (dBm)	MPR (dB)			
Channel				20450	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	23.82	23.88	23.84	25	0			
10	QPSK	1	25	23.87	23.84	23.80					
10	QPSK	1	49	23.71	23.71	23.77					
10	QPSK	25	0	22.91	22.92	22.74	24	1			
10	QPSK	25	12	22.90	22.88	22.76					
10	QPSK	25	25	22.86	22.87	22.84					
10	QPSK	50	0	22.85	22.95	22.75	24	2			
10	16QAM	1	0	23.15	22.94	22.72					
10	16QAM	1	25	23.25	22.96	22.83					
10	16QAM	1	49	23.31	22.88	23.04	23	2			
10	16QAM	25	0	21.88	21.96	21.94					
10	16QAM	25	12	22.06	21.92	21.84					
10	16QAM	25	25	21.92	21.94	21.86	23	2			
10	16QAM	50	0	21.91	21.89	21.81					
10	64QAM	1	0	22.24	22.26	22.15	23	2			
10	64QAM	1	25	22.13	22.17	22.19					
10	64QAM	1	49	22.05	22.06	21.92					
10	64QAM	25	0	20.83	21.16	20.87	22	3			
10	64QAM	25	12	20.88	20.93	20.79					
10	64QAM	25	25	20.79	20.88	20.82					
10	64QAM	50	0	21.02	20.81	20.88					
Channel				20452	20525	20602					
Frequency (MHz)				826.5	836.5	846.5					
5	QPSK	1	0	23.68	23.72	23.66	25	0			
5	QPSK	1	12	23.72	23.84	23.81					
5	QPSK	1	24	23.76	23.83	23.83					
5	QPSK	12	0	22.85	23.00	22.84	24	1			
5	QPSK	12	7	22.96	22.91	22.84					
5	QPSK	12	13	22.92	22.87	22.81					
5	QPSK	25	0	22.82	22.88	22.77	24	1			
5	16QAM	1	0	23.03	23.21	23.30					
5	16QAM	1	12	23.23	23.33	22.94					
5	16QAM	1	24	23.34	22.91	22.80	23	2			
5	16QAM	12	0	21.88	22.02	21.89					
5	16QAM	12	7	21.90	21.96	21.91					
5	16QAM	12	13	21.98	21.94	21.76	23	2			
5	16QAM	25	0	21.91	21.90	21.91					
5	64QAM	1	0	22.21	22.21	21.94					
5	64QAM	1	12	21.97	22.19	21.89	22	3			
5	64QAM	1	24	21.88	21.90	21.82					
5	64QAM	12	0	20.86	21.12	20.84					
5	64QAM	12	7	21.00	20.95	20.96	22	3			
5	64QAM	12	13	20.95	20.81	20.78					
5	64QAM	25	0	20.97	20.93	20.92					
Channel				20415	20525	20635					
Frequency (MHz)				825.5	836.5	847.5					
3	QPSK	1	0	23.53	23.50	23.52	25	0			
3	QPSK	1	8	23.71	23.85	23.53					
3	QPSK	1	14	23.65	23.69	23.61					
3	QPSK	8	0	22.90	22.92	22.89	24	1			
3	QPSK	8	4	22.89	22.90	22.79					
3	QPSK	8	7	22.78	22.85	22.88					
3	QPSK	15	0	22.90	22.93	22.77	24	1			
3	16QAM	1	0	23.48	22.80	23.03					
3	16QAM	1	8	22.88	23.21	22.85					
3	16QAM	1	14	23.31	22.73	22.81	23	2			
3	16QAM	8	0	21.81	21.93	21.76					
3	16QAM	8	4	21.83	21.96	21.90					
3	16QAM	8	7	21.96	22.05	21.86	23	2			
3	16QAM	15	0	21.90	21.89	21.74					
3	64QAM	1	0	22.12	22.21	21.77					
3	64QAM	1	8	22.42	21.85	21.38	22	3			
3	64QAM	1	14	21.68	21.64	21.23					
3	64QAM	8	0	20.98	20.96	20.29					
3	64QAM	8	4	20.90	21.05	20.37	22	3			
3	64QAM	8	7	20.96	20.98	20.53					
3	64QAM	15	0	21.03	20.91	20.51					
Channel				20467	20525	20643					
Frequency (MHz)				824.7	836.5	848.3					
1.4	QPSK	1	0	23.68	23.79	23.70	25	0			
1.4	QPSK	1	3	23.76	23.72	23.65					
1.4	QPSK	1	5	23.63	23.71	23.62					
1.4	QPSK	3	0	23.69	23.76	23.66	24	1			
1.4	QPSK	3	1	23.86	23.79	23.78					
1.4	QPSK	3	3	23.70	23.67	23.64					
1.4	QPSK	6	0	22.76	22.88	22.72	24	1			
1.4	16QAM	1	0	23.35	23.24	23.26					
1.4	16QAM	1	3	22.74	23.36	23.26					
1.4	16QAM	1	5	22.96	23.26	23.15	24	1			
1.4	16QAM	3	0	22.88	22.78	22.77					
1.4	16QAM	3	1	22.92	22.92	22.86					
1.4	16QAM	3	3	22.83	22.81	22.80	23	2			
1.4	16QAM	6	0	21.90	21.90	21.85					
1.4	64QAM	1	0	21.69	21.88	21.83					
1.4	64QAM	1	3	21.99	22.13	21.88	23	2			
1.4	64QAM	1	5	21.83	22.02	21.85					
1.4	64QAM	3	0	22.05	21.90	21.98					
1.4	64QAM	3	1	22.03	22.06	21.67	22	3			
1.4	64QAM	3	3	21.99	21.96	22.01					
1.4	64QAM	6	0	20.78	20.87	20.78					



Band 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Channel	Power Middle Ch. / Channel	Power High Ch. / Channel	Tune-up limit (dBm)	MPR (dB)	
Channel				20890	21100	21350			
20	QPSK	1	0	20.17	20.53	20.70	21.5	0	
20	QPSK	1	49	20.46	20.56	20.54			
20	QPSK	1	99	20.40	20.52	20.41			
20	QPSK	50	0	20.29	20.30	20.39	21.5	0	
20	QPSK	50	24	20.27	20.28	20.30			
20	QPSK	50	50	20.19	20.27	20.25			
20	QPSK	100	0	20.20	20.28	20.27	21.5	0	
20	16QAM	1	0	20.07	20.14	20.06			
20	16QAM	1	49	20.11	20.18	20.20			
20	16QAM	1	99	20.10	20.17	20.25	21.5	0	
20	16QAM	50	0	20.17	20.24	20.24			
20	16QAM	50	24	20.29	20.27	20.29			
20	16QAM	50	50	20.27	20.24	20.37	21.5	0	
20	16QAM	100	0	20.19	20.32	20.28			
20	64QAM	1	0	20.30	20.36	20.29	21.5	0	
20	64QAM	1	49	20.36	20.45	20.46			
20	64QAM	1	99	20.39	20.44	20.53			
20	64QAM	50	0	20.20	20.30	20.31	21.5	0	
20	64QAM	50	24	20.31	20.35	20.36			
20	64QAM	50	50	20.32	20.34	20.42			
20	64QAM	100	0	20.22	20.29	20.31			
Channel				2507.5	21100	21175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	20.01	20.03	20.05	21.5	0	
15	QPSK	1	37	20.10	20.14	20.10			
15	QPSK	1	74	20.05	20.21	20.11			
15	QPSK	36	0	20.14	20.18	20.21	21.5	0	
15	QPSK	36	20	20.20	20.29	20.18			
15	QPSK	36	39	20.17	20.31	20.18			
15	QPSK	75	0	20.10	20.20	20.29	21.5	0	
15	16QAM	1	0	20.33	20.40	20.42			
15	16QAM	1	37	20.39	20.53	20.46			
15	16QAM	1	74	20.48	20.63	20.49	21.5	0	
15	16QAM	36	0	20.13	20.21	20.26			
15	16QAM	36	20	20.29	20.30	20.20			
15	16QAM	36	39	20.19	20.39	20.26	21.5	0	
15	16QAM	75	0	20.13	20.21	20.28			
15	64QAM	1	0	20.30	20.26	20.32			
15	64QAM	1	37	20.27	20.39	20.40	21.5	0	
15	64QAM	1	74	20.39	20.50	20.38			
15	64QAM	36	0	20.17	20.22	20.29			
15	64QAM	36	20	20.30	20.36	20.34	21.5	0	
15	64QAM	36	39	20.30	20.41	20.33			
15	64QAM	75	0	20.15	20.31	20.31			
Channel				2560	21100	21100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	20.07	20.06	20.09	21.5	0	
10	QPSK	1	25	20.07	20.10	20.18			
10	QPSK	1	49	20.04	20.16	20.12			
10	QPSK	25	0	20.14	20.18	20.16	21.5	0	
10	QPSK	25	12	20.20	20.24	20.18			
10	QPSK	25	25	20.20	20.28	20.21			
10	QPSK	50	0	20.09	20.26	20.27	21.5	0	
10	16QAM	1	0	20.39	20.36	20.44			
10	16QAM	1	25	20.36	20.48	20.53			
10	16QAM	1	49	20.50	20.59	20.50	21.5	0	
10	16QAM	25	0	20.16	20.19	20.25			
10	16QAM	25	12	20.20	20.20	20.21			
10	16QAM	25	25	20.25	20.32	20.18	21.5	0	
10	16QAM	50	0	20.16	20.21	20.19			
10	64QAM	1	0	20.26	20.26	20.27			
10	64QAM	1	25	20.32	20.39	20.37	21.5	0	
10	64QAM	1	49	20.34	20.52	20.43			
10	64QAM	25	0	20.11	20.30	20.26			
10	64QAM	25	12	20.28	20.30	20.31	21.5	0	
10	64QAM	25	25	20.26	20.33	20.25			
10	64QAM	50	0	20.20	20.27	20.20			
Channel				2572.5	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2522.5	2535	2567.5			
5	QPSK	1	0	19.97	20.00	20.10	21.5	0	
5	QPSK	1	12	20.01	20.10	20.10			
5	QPSK	1	24	20.05	20.22	20.14			
5	QPSK	12	0	20.17	20.22	20.15	21.5	0	
5	QPSK	12	7	20.26	20.23	20.26			
5	QPSK	12	13	20.23	20.36	20.15			
5	QPSK	25	0	20.15	20.22	20.29	21.5	0	
5	16QAM	1	0	20.39	20.34	20.52			
5	16QAM	1	12	20.42	20.54	20.55			
5	16QAM	1	24	20.53	20.59	20.55	21.5	0	
5	16QAM	12	0	20.09	20.21	20.21			
5	16QAM	12	7	20.24	20.23	20.28			
5	16QAM	12	13	20.26	20.34	20.26	21.5	0	
5	16QAM	25	0	20.20	20.18	20.19			
5	64QAM	1	0	20.22	20.24	20.29			
5	64QAM	1	12	20.33	20.39	20.44	21.5	0	
5	64QAM	1	24	20.34	20.52	20.35			
5	64QAM	12	0	20.20	20.31	20.22			
5	64QAM	12	7	20.22	20.33	20.33	21.5	0	
5	64QAM	12	13	20.22	20.33	20.34			
5	64QAM	25	0	20.22	20.26	20.25			



Band 2													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. /	Power Middle Ch. /	Power High Ch. /	Tune-up limit (dBm)	MPR (dB)					
Channel				1870.0	1890.0	1910.0							
Frequency (MHz)				1860 <td>1880<td>1900<td colspan="4"></td></td></td>	1880 <td>1900<td colspan="4"></td></td>	1900 <td colspan="4"></td>							
20	QPSK	1	0	19.96	20.21	19.99	21	0					
20	QPSK	1	49	20.04	20.09	19.94							
20	QPSK	1	99	19.92	19.96	19.89							
20	QPSK	50	0	19.79	20.03	19.86	21	0					
20	QPSK	50	24	19.83	20.02	19.85							
20	QPSK	50	50	19.79	19.87	19.82							
20	16QAM	1	0	20.10	20.10	20.18	21	0					
20	16QAM	1	49	20.04	20.09	20.05							
20	16QAM	1	99	20.02	20.08	20.09							
20	16QAM	50	0	19.86	20.05	19.87	21	0					
20	16QAM	50	24	19.84	20.06	19.87							
20	16QAM	50	50	19.82	19.89	19.88							
20	16QAM	100	0	19.81	20.00	19.86	21	0					
20	64QAM	1	0	19.96	20.16	20.08							
20	64QAM	1	49	20.04	20.11	19.93							
20	64QAM	1	99	19.88	19.94	19.93	21	0					
20	64QAM	50	0	19.87	20.09	19.90							
20	64QAM	50	24	19.88	20.10	19.91							
20	64QAM	50	50	19.83	19.94	19.89	21	0					
20	64QAM	100	0	19.85	20.04	19.89							
Channel				1867.5	1890.0	1912.5			Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1857.5	1880	1902.5							
15	QPSK	1	0	20.20	19.92	19.91	21	0					
15	QPSK	1	37	20.02	19.96	19.88							
15	QPSK	1	74	19.89	19.86	19.86							
15	QPSK	36	0	20.02	19.75	19.78	21	0					
15	QPSK	36	20	19.94	19.77	19.82							
15	QPSK	36	39	19.78	19.73	19.78							
15	QPSK	75	0	19.93	19.78	19.85	21	0					
15	16QAM	1	0	20.00	20.10	20.14							
15	16QAM	1	37	20.09	19.99	19.99							
15	16QAM	1	74	20.06	19.94	20.05	21	0					
15	16QAM	36	0	19.95	19.79	19.80							
15	16QAM	36	20	19.96	19.81	19.87							
15	16QAM	36	39	19.81	19.81	19.82	21	0					
15	16QAM	75	0	19.90	19.76	19.76							
15	64QAM	1	0	20.11	19.96	20.02							
15	64QAM	1	37	20.03	20.04	19.93	21	0					
15	64QAM	1	74	19.90	19.84	19.85							
15	64QAM	36	0	20.00	19.77	19.82							
15	64QAM	36	20	20.05	19.82	19.86	21	0					
15	64QAM	36	39	19.87	19.78	19.80							
15	64QAM	75	0	19.97	19.85	19.79							
Channel				1850	1890	1915	Tune-up limit (dBm)				MPR (dB)		
Frequency (MHz)				1855	1880	1905							
10	QPSK	1	0	20.14	19.90	19.93	21	0					
10	QPSK	1	25	20.02	19.98	19.90							
10	QPSK	1	49	19.95	19.82	19.87							
10	QPSK	25	0	19.97	19.70	19.82	21	0					
10	QPSK	25	12	20.00	19.75	19.84							
10	QPSK	25	25	19.81	19.76	19.73							
10	QPSK	50	0	19.97	19.71	19.79	21	0					
10	16QAM	1	0	20.05	20.03	20.11							
10	16QAM	1	25	20.03	20.00	19.99							
10	16QAM	1	49	20.02	19.97	20.05	21	0					
10	16QAM	25	0	20.06	19.81	19.78							
10	16QAM	25	12	20.05	19.77	19.84							
10	16QAM	25	25	19.88	19.72	19.87	21	0					
10	16QAM	50	0	19.98	19.81	19.76							
10	64QAM	1	0	20.09	19.89	19.98							
10	64QAM	1	25	20.09	20.03	19.84	21	0					
10	64QAM	1	49	19.89	19.78	19.93							
10	64QAM	25	0	20.09	19.80	19.82							
10	64QAM	25	12	20.03	19.79	19.87	21	0					
10	64QAM	25	25	19.88	19.80	19.89							
10	64QAM	50	0	20.00	19.82	19.86							
Channel				1852.5	1890	1917.5	Tune-up limit (dBm)				MPR (dB)		
Frequency (MHz)				1852.5	1880	1907.5							
5	QPSK	1	0	20.15	19.88	19.93	21	0					
5	QPSK	1	12	20.00	19.98	19.88							
5	QPSK	1	24	19.92	19.84	19.82							
5	QPSK	12	0	19.98	19.69	19.76	21	0					
5	QPSK	12	7	19.93	19.77	19.80							
5	QPSK	12	13	19.83	19.79	19.80							
5	QPSK	25	0	19.90	19.79	19.82	21	0					
5	16QAM	1	0	20.04	20.09	20.18							
5	16QAM	1	12	20.03	20.01	20.03							
5	16QAM	1	24	20.00	19.99	20.08	21	0					
5	16QAM	12	0	20.01	19.77	19.85							
5	16QAM	12	7	20.05	19.80	19.77							
5	16QAM	12	13	19.87	19.81	19.85	21	0					
5	16QAM	25	0	19.97	19.72	19.79							
5	64QAM	1	0	20.15	19.87	20.05							
5	64QAM	1	12	20.08	19.95	19.93	21	0					
5	64QAM	1	24	19.85	19.84	19.93							
5	64QAM	12	0	20.05	19.79	19.84							
5	64QAM	12	7	20.08	19.88	19.82	21	0					
5	64QAM	12	13	19.84	19.75	19.86							
5	64QAM	25	0	19.95	19.79	19.89							
Channel				1861.5	1890	1909.5	Tune-up limit (dBm)				MPR (dB)		
Frequency (MHz)				1861.5	1880	1909.5							
3	QPSK	1	0	20.20	19.89	19.95	21	0					
3	QPSK	1	8	20.03	20.01	19.89							
3	QPSK	1	14	19.91	19.83	19.84							
3	QPSK	8	0	19.98	19.70	19.83	21	0					
3	QPSK	8	4	19.96	19.78	19.81							
3	QPSK	8	7	19.79	19.72	19.72							
3	QPSK	15	0	19.95	19.77	19.82	21	0					
3	16QAM	1	0	20.07	20.06	20.14							
3	16QAM	1	8	20.05	19.99	19.95							
3	16QAM	1	14	20.04	19.98	19.99	21	0					
3	16QAM	8	0	20.03	19.81	19.82							
3	16QAM	8	4	19.98	19.83	19.79							
3	16QAM	8	7	19.79	19.75	19.86	21	0					
3	16QAM	15	0	19.97	19.79	19.80							
3	64QAM	1	0	20.14	19.95	20.06							
3	64QAM	1	8	20.10	19.95	19.83	21	0					
3	64QAM	1	14	19.90	19.84	19.87							
3	64QAM	8	0	20.09	19.81	19.90							
3	64QAM	8	4	20.06	19.78	19.85	21	0					
3	64QAM	8	7	19.92	19.74	19.86							
3	64QAM	15	0	19.94	19.77	19.82							
Channel				1860.7	1890.0	1919.3	Tune-up limit (dBm)	MPR (dB)					
Frequency (MHz)				1850.7	1880	1909.3							
1.4	QPSK	1	0	20.16	19.88	19.95	21	0					
1.4	QPSK	1	2	20.05	19.96	19.87							
1.4	QPSK	1	5	19.93	19.82	19.81							
1.4	QPSK	3	0	20.08	19.74	19.80	21	0					
1.4	QPSK	3	1	19.96	19.79	19.76							
1.4	QPSK	3	3	19.77	19.69	19.76							
1.4	QPSK	6	0	20.03	19.81	19.82	21	0					
1.4	QPSK	6	0	20.00	19.66	19.72							
1.4	16QAM	1	0	20.09	19.99	20.03							
1.4	16QAM	1	5	20.07	20.02	19.99	21	0					
1.4	16QAM	3	0	19.95	19.76	19.79							
1.4	16QAM	3	1	20.06	19.78	19.85							
1.4	16QAM	3	5	19.87	19.80	19.83	21	0					
1.4	16QAM	6	0	19.98	19.76	19.85							
1.4	16QAM	6	0	20.06	19.89	19.90							
1.4	64QAM	1	3	20.00	20.00	19.84	21	0					
1.4	64QAM	3	5	19.86	19.86	19.90							
1.4	64QAM	3	0	20.07	19.86	19.81							
1.4	64QAM	3	1	20.01	19.85	19.86	21	0					
1.4	64QAM	6	0	19.99	19.79	19.80							
1.4	64QAM	6	0	19.94	19.80	19.81							



Band 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)	
Channel				2000	2017.5	20300	20	0	
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	19.24	19.38	19.17	20	0	
20	QPSK	1	49	18.98	18.88	18.90			
20	QPSK	1	99	18.84	18.86	18.82			
20	QPSK	50	0	19.09	19.13	18.98	20	0	
20	QPSK	50	24	19.11	19.02	18.91			
20	QPSK	50	50	19.01	18.91	18.87			
20	QPSK	100	0	19.07	19.04	18.89	20	0	
20	16QAM	1	0	19.15	19.12	19.03			
20	16QAM	1	49	18.99	18.95	18.89			
20	16QAM	1	99	18.98	18.91	18.79	20	0	
20	16QAM	50	0	19.14	19.15	18.99			
20	16QAM	50	24	19.12	19.05	18.91			
20	16QAM	50	50	19.03	18.94	18.91	20	0	
20	16QAM	100	0	19.09	19.02	18.89			
20	64QAM	1	0	19.13	19.21	19.15	20	0	
20	64QAM	1	49	19.16	19.10	19.05			
20	64QAM	1	99	19.10	19.07	19.00			
20	64QAM	50	0	19.16	19.19	19.04	20	0	
20	64QAM	50	24	19.15	19.07	18.96			
20	64QAM	50	50	19.07	18.97	18.93			
20	64QAM	100	0	19.16	19.07	18.93	20	0	
Channel				20025 <th>2017.5</th> <th>20325</th>	2017.5	20325			
Frequency (MHz)				1717.5 <th>1732.5</th> <th>1747.5</th> <th rowspan="2">20</th> <th rowspan="2">0</th> <th rowspan="2"></th>	1732.5	1747.5	20	0	
15	QPSK	1	0	19.22	19.29	19.13			
15	QPSK	1	37	18.92	18.80	18.85	20	0	
15	QPSK	1	74	18.82	18.85	18.81			
15	QPSK	36	0	19.05	19.07	18.91		20	0
15	QPSK	36	20	19.05	19.01	18.91			
15	QPSK	36	39	18.01	18.90	18.87			
15	QPSK	75	0	19.02	18.94	18.88	20	0	
15	16QAM	1	0	19.11	19.12	18.94			
15	16QAM	1	37	18.99	18.92	18.85			
15	16QAM	1	74	18.99	18.86	18.79	20	0	
15	16QAM	36	0	19.07	19.15	18.98			
15	16QAM	36	20	19.08	18.99	18.90		20	0
15	16QAM	36	39	19.02	18.88	18.88			
15	16QAM	75	0	19.05	19.00	18.81	20	0	
15	64QAM	1	0	19.09	19.11	19.14			
15	64QAM	1	37	19.16	19.07	18.99		20	0
15	64QAM	1	74	19.06	19.02	18.95			
15	64QAM	36	0	19.07	19.14	19.04	20	0	
15	64QAM	36	20	19.15	18.97	18.96			
15	64QAM	36	39	18.97	18.91	18.90			
15	64QAM	75	0	19.14	19.06	18.90	20	0	
Channel				20014 <th>2017.5</th> <th>20350</th>	2017.5	20350			
Frequency (MHz)				1717.5 <th>1732.5</th> <th>1750</th> <th rowspan="2">20</th> <th rowspan="2">0</th> <th rowspan="2"></th>	1732.5	1750	20	0	
10	QPSK	1	0	19.19	19.26	19.15			
10	QPSK	1	25	18.91	18.76	18.80	20	0	
10	QPSK	1	49	18.79	18.85	18.74			
10	QPSK	25	0	19.05	19.12	18.95		20	0
10	QPSK	25	12	19.10	18.97	18.82			
10	QPSK	25	25	19.00	18.88	18.92		20	0
10	QPSK	50	0	19.00	19.03	18.81			
10	16QAM	1	0	19.07	19.08	18.96	20	0	
10	16QAM	1	25	18.91	18.86	18.83			
10	16QAM	1	49	18.95	18.80	18.69		20	0
10	16QAM	25	0	19.14	19.11	18.92			
10	16QAM	25	12	19.12	18.95	18.89	20	0	
10	16QAM	25	25	18.95	18.84	18.86			
10	16QAM	50	0	19.07	18.93	18.80		20	0
10	64QAM	1	0	19.12	19.20	19.11			
10	64QAM	1	25	19.11	19.10	19.05	20	0	
10	64QAM	1	49	19.08	19.07	19.00			
10	64QAM	25	0	19.15	19.16	18.98		20	0
10	64QAM	25	12	19.13	19.07	18.91			
10	64QAM	25	25	19.04	18.93	18.90		20	0
10	64QAM	50	0	19.13	19.05	18.90			
Channel				1997.5	2017.5	20350	20	0	
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	19.18	19.35	19.16	20	0	
5	QPSK	1	12	18.96	18.79	18.88			
5	QPSK	1	24	18.75	18.76	18.82		20	0
5	QPSK	12	0	19.08	19.11	18.98			
5	QPSK	12	7	19.05	18.94	18.85	20	0	
5	QPSK	12	13	18.98	18.87	18.87			
5	QPSK	25	0	19.02	18.95	18.88		20	0
5	16QAM	1	0	19.05	19.08	18.95			
5	16QAM	1	12	18.94	18.91	18.86	20	0	
5	16QAM	1	24	18.98	18.86	18.73			
5	16QAM	12	0	19.04	19.14	18.91		20	0
5	16QAM	12	7	19.10	19.02	18.88			
5	16QAM	12	13	18.93	18.88	18.89	20	0	
5	16QAM	25	0	19.07	18.93	18.85			
5	64QAM	1	0	19.11	19.16	19.14	20	0	
5	64QAM	1	12	19.11	19.00	19.06			
5	64QAM	1	24	19.00	18.97	18.94		20	0
5	64QAM	12	0	19.11	19.18	19.04			
5	64QAM	12	7	19.13	19.01	18.88	20	0	
5	64QAM	12	13	18.99	18.97	18.88			
5	64QAM	25	0	19.10	19.05	18.86		20	0
Channel				1997.5	2017.5	2037.5			
Frequency (MHz)				1711.5	1732.5	1753.5	20	0	
3	QPSK	1	0	19.16	19.32	19.16			
3	QPSK	1	8	18.89	18.80	18.83	20	0	
3	QPSK	1	14	18.82	18.76	18.79			
3	QPSK	8	0	19.09	19.07	18.92		20	0
3	QPSK	8	4	19.04	18.99	18.85			
3	QPSK	8	7	18.95	18.82	18.82		20	0
3	QPSK	15	0	19.03	19.01	18.79			
3	16QAM	1	0	19.09	19.02	18.94	20	0	
3	16QAM	1	8	18.95	18.91	18.80			
3	16QAM	1	14	18.98	18.81	18.70		20	0
3	16QAM	8	0	19.11	19.13	18.88			
3	16QAM	8	4	19.07	18.95	18.88	20	0	
3	16QAM	8	7	18.97	18.94	18.85			
3	16QAM	15	0	19.01	19.02	18.81		20	0
3	64QAM	1	0	19.09	19.13	19.06			
3	64QAM	1	8	19.15	19.02	19.04	20	0	
3	64QAM	1	14	19.00	19.05	19.00			
3	64QAM	8	0	19.12	19.16	18.95		20	0
3	64QAM	8	4	19.11	19.06	18.87			
3	64QAM	8	7	19.05	18.97	18.91		20	0
3	64QAM	15	0	19.10	19.05	18.83			
Channel				1997.7	2017.5	2037.5	20	0	
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	19.22	19.27	19.15	20	0	
1.4	QPSK	1	3	18.96	18.79	18.86			
1.4	QPSK	1	5	18.80	18.81	18.74		20	0
1.4	QPSK	3	0	19.06	19.03	18.88			
1.4	QPSK	3	1	19.02	18.97	18.91	20	0	
1.4	QPSK	3	3	18.97	18.83	18.78			
1.4	QPSK	6	0	19.07	19.04	18.90	20	0	
1.4	QPSK	6	1	19.05	19.02	18.83			
1.4	16QAM	1	0	18.99	18.92	18.79		20	0
1.4	16QAM	1	5	18.93	18.87	18.72			
1.4	16QAM	3	0	19.04	19.15	18.89	20	0	
1.4	16QAM	3	1	18.94	18.93	18.84			
1.4	16QAM	3	3	18.97	18.80	18.86		20	0
1.4	16QAM	3	7	19.03	19.12	19.15			
1.4	16QAM	3	1	19.13	19.02	18.95	20	0	
1.4	16QAM	3	5	19.07	18.90	18.93			
1.4	16QAM	6	0	19.09	19.01	18.86		20	0
1.4	16QAM	6	3	18.99	18.92	18.77			



Band 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	23.81	23.89	23.77	25	0	
10	QPSK	1	25	23.71	23.85	23.53			
10	QPSK	1	49	23.65	23.69	23.61			
10	QPSK	25	0	22.90	22.92	22.89	24	1	
10	QPSK	25	12	22.89	22.90	22.79			
10	QPSK	25	25	22.78	22.85	22.88			
10	QPSK	50	0	22.90	22.93	22.77	24	1	
10	16QAM	1	0	23.48	22.80	23.03			
10	16QAM	1	25	22.88	23.21	22.85			
10	16QAM	1	49	23.31	22.73	22.81	23	2	
10	16QAM	25	0	21.81	21.93	21.76			
10	16QAM	25	12	21.83	21.96	21.90			
10	16QAM	25	25	21.96	22.05	21.86	23	2	
10	16QAM	50	0	21.90	21.89	21.74			
10	64QAM	1	0	22.12	22.21	21.77	23	2	
10	64QAM	1	25	22.42	21.85	21.96			
10	64QAM	1	49	21.68	21.64	21.23			
10	64QAM	25	0	20.98	20.96	20.29	22	3	
10	64QAM	25	12	20.90	21.05	20.37			
10	64QAM	25	25	20.96	20.98	20.53			
10	64QAM	50	0	21.03	20.91	20.51			
Channel				20452	20525	20602	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	845.5			
5	QPSK	1	0	23.68	23.72	23.86	25	0	
5	QPSK	1	12	23.72	23.84	23.81			
5	QPSK	1	24	23.76	23.83	23.83			
5	QPSK	12	0	22.85	23.00	22.84	24	1	
5	QPSK	12	7	22.96	22.91	22.84			
5	QPSK	12	13	22.92	22.87	22.81			
5	QPSK	25	0	22.82	22.88	22.77	24	1	
5	16QAM	1	0	23.03	23.21	23.30			
5	16QAM	1	12	23.23	23.33	22.94			
5	16QAM	1	24	23.34	22.91	22.80	23	2	
5	16QAM	12	0	21.88	22.02	21.89			
5	16QAM	12	7	21.90	21.96	21.91			
5	16QAM	12	13	21.98	21.94	21.76	23	2	
5	16QAM	25	0	21.91	21.90	21.91			
5	64QAM	1	0	22.21	22.21	21.94			
5	64QAM	1	12	21.97	22.19	21.89	23	2	
5	64QAM	1	24	21.88	21.90	21.82			
5	64QAM	12	0	20.86	21.12	20.84			
5	64QAM	12	7	21.00	20.95	20.96	22	3	
5	64QAM	12	13	20.95	20.81	20.78			
5	64QAM	25	0	20.97	20.93	20.92			
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	23.82	23.84	23.64	25	0	
3	QPSK	1	8	23.87	23.88	23.80			
3	QPSK	1	14	23.71	23.71	23.77			
3	QPSK	8	0	22.91	22.92	22.74	24	1	
3	QPSK	8	4	22.97	22.88	22.76			
3	QPSK	8	7	22.86	22.88	22.94			
3	QPSK	15	0	22.95	22.85	22.75	24	1	
3	16QAM	1	0	23.15	22.94	22.72			
3	16QAM	1	8	23.25	22.96	22.83			
3	16QAM	1	14	23.31	22.86	23.04	23	2	
3	16QAM	8	0	21.88	21.96	21.84			
3	16QAM	8	4	22.06	21.92	21.84			
3	16QAM	8	7	21.92	21.94	21.86	23	2	
3	16QAM	15	0	21.91	21.89	21.81			
3	64QAM	1	0	22.24	22.26	22.15			
3	64QAM	1	8	22.13	22.17	22.19	23	2	
3	64QAM	1	14	22.05	22.06	21.92			
3	64QAM	8	0	20.83	21.16	20.87			
3	64QAM	8	4	20.88	20.93	20.79	22	3	
3	64QAM	8	7	20.79	20.88	20.82			
3	64QAM	15	0	21.02	20.81	20.89			
Channel				20467	20525	20643	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	23.68	23.79	23.70	25	0	
1.4	QPSK	1	3	23.76	23.72	23.65			
1.4	QPSK	1	5	23.63	23.71	23.62			
1.4	QPSK	3	0	23.69	23.76	23.66	24	1	
1.4	QPSK	3	1	23.86	23.79	23.78			
1.4	QPSK	3	3	23.70	23.67	23.64			
1.4	QPSK	6	0	22.76	22.88	22.72	24	1	
1.4	16QAM	1	0	23.35	23.24	23.26			
1.4	16QAM	1	3	22.74	23.36	23.26			
1.4	16QAM	1	5	22.96	23.26	23.15	24	1	
1.4	16QAM	3	0	22.88	22.78	22.77			
1.4	16QAM	3	1	22.92	22.92	22.86			
1.4	16QAM	3	3	22.83	22.81	22.80	23	2	
1.4	16QAM	6	0	21.90	21.90	21.85			
1.4	64QAM	1	0	21.69	21.88	21.83			
1.4	64QAM	1	3	21.99	22.13	21.88	23	2	
1.4	64QAM	1	5	21.83	22.02	21.85			
1.4	64QAM	3	0	22.05	21.90	21.98			
1.4	64QAM	3	1	22.03	22.06	21.67	22	3	
1.4	64QAM	3	3	21.99	21.96	22.01			
1.4	64QAM	6	0	20.78	20.87	20.78			



Band 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)		
Channel				20890	21100	21350				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	22.12	22.39	22.23	23	0		
20	QPSK	1	49	22.18	22.29	22.28				
20	QPSK	1	99	22.22	22.34	22.32				
20	QPSK	50	0	22.24	22.31	22.24	23	0		
20	QPSK	50	24	21.82	21.86	21.87				
20	QPSK	50	50	21.84	21.95	21.86				
20	QPSK	100	0	21.76	21.86	21.88	23	0		
20	16QAM	1	0	22.00	22.02	22.14				
20	16QAM	1	49	22.05	22.14	22.19				
20	16QAM	1	99	22.07	22.16	22.17	23	0		
20	16QAM	50	0	21.96	22.04	22.07				
20	16QAM	50	24	22.09	22.09	22.11				
20	16QAM	50	50	22.07	22.17	22.10	23	0		
20	16QAM	100	0	21.95	22.08	22.09				
20	64QAM	1	0	22.06	22.09	22.15	23	0		
20	64QAM	1	49	22.15	22.26	22.25				
20	64QAM	1	99	22.20	22.30	22.20				
20	64QAM	50	0	21.12	21.15	21.10	22	1		
20	64QAM	50	24	21.11	21.13	21.14				
20	64QAM	50	50	21.11	21.20	21.12				
20	64QAM	100	0	21.13	21.18	21.10				
Channel				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	21.78	21.73	21.92	23	0		
15	QPSK	1	37	21.84	21.97	21.90				
15	QPSK	1	74	21.85	21.99	21.95				
15	QPSK	36	0	21.93	21.97	21.98	23	0		
15	QPSK	36	20	21.99	21.99	21.97				
15	QPSK	36	39	21.94	22.12	22.01				
15	QPSK	75	0	21.93	22.00	21.98	23	0		
15	16QAM	1	0	22.16	22.13	22.24				
15	16QAM	1	37	22.24	22.28	22.30				
15	16QAM	1	74	22.19	22.29	22.35	23	0		
15	16QAM	36	0	21.86	21.99	22.03				
15	16QAM	36	20	22.00	22.00	22.05				
15	16QAM	36	39	22.06	22.07	22.01	23	0		
15	16QAM	75	0	21.92	22.06	22.02				
15	64QAM	1	0	22.00	21.99	22.12	23	0		
15	64QAM	1	37	22.05	22.28	22.22				
15	64QAM	1	74	22.19	22.23	22.12				
15	64QAM	36	0	21.11	21.12	21.04	22	1		
15	64QAM	36	20	21.06	21.13	21.09				
15	64QAM	36	39	21.02	21.11	21.02				
15	64QAM	75	0	21.04	21.07	21.07				
Channel				2500	21100	21100	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	21.77	21.82	21.87	23	0		
10	QPSK	1	25	21.79	21.93	21.93				
10	QPSK	1	49	21.85	21.98	21.97				
10	QPSK	25	0	21.85	22.00	21.95	23	0		
10	QPSK	25	12	21.97	22.04	22.04				
10	QPSK	25	25	21.98	22.11	22.03				
10	QPSK	50	0	21.95	22.06	21.96	23	0		
10	16QAM	1	0	22.17	22.22	22.29				
10	16QAM	1	25	22.15	22.30	22.34				
10	16QAM	1	49	22.26	22.32	22.35	23	0		
10	16QAM	25	0	21.96	22.00	22.00				
10	16QAM	25	12	22.05	22.07	22.10				
10	16QAM	25	25	21.98	22.13	22.00	23	0		
10	16QAM	50	0	21.92	22.06	22.02				
10	64QAM	1	0	22.00	22.09	22.15				
10	64QAM	1	25	22.05	22.19	22.21	23	0		
10	64QAM	1	49	22.15	22.29	22.15				
10	64QAM	25	0	21.05	21.14	21.10				
10	64QAM	25	12	21.04	21.07	21.04	22	1		
10	64QAM	25	25	21.07	21.18	21.05				
10	64QAM	50	0	21.07	21.09	21.07				
Channel				2507.5	21100	21125	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	0	21.74	21.74	21.87	23	0		
5	QPSK	1	12	21.83	21.95	21.97				
5	QPSK	1	24	21.82	21.99	21.98				
5	QPSK	12	0	21.86	21.99	21.96	23	0		
5	QPSK	12	7	22.01	21.99	21.97				
5	QPSK	12	13	22.04	22.12	21.99				
5	QPSK	25	0	21.93	22.06	22.08	23	0		
5	16QAM	1	0	22.12	22.16	22.27				
5	16QAM	1	12	22.25	22.28	22.37				
5	16QAM	1	24	22.23	22.34	22.34	23	0		
5	16QAM	12	0	21.91	22.04	21.99				
5	16QAM	12	7	22.07	22.01	22.10				
5	16QAM	12	13	21.98	22.15	22.06	23	0		
5	16QAM	25	0	21.86	22.07	22.09				
5	64QAM	1	0	21.97	22.02	22.13				
5	64QAM	1	12	22.13	22.20	22.21	23	0		
5	64QAM	1	24	22.14	22.24	22.14				
5	64QAM	12	0	21.07	21.15	21.09				
5	64QAM	12	7	21.01	21.11	21.08	22	1		
5	64QAM	12	13	21.04	21.20	21.11				
5	64QAM	25	0	21.08	21.18	21.05				



Band 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)		
Channel				1870.0	1890.0	1910.0				
Frequency (MHz)				1860	1880	1900				
20	QPSK	1	0	17.42	17.16	17.17	18	0		
20	QPSK	1	49	17.28	17.17	17.02				
20	QPSK	1	99	17.17	17.02	17.10				
20	QPSK	50	0	17.21	16.87	16.90	18	0		
20	QPSK	50	24	17.17	16.88	16.90				
20	QPSK	50	50	17.05	16.84	16.90				
20	QPSK	100	0	17.04	16.83	16.89	18	0		
20	16QAM	1	0	17.00	16.78	16.79				
20	16QAM	1	49	16.88	16.80	16.69				
20	16QAM	1	99	16.76	16.67	16.67	18	0		
20	16QAM	50	0	17.08	16.85	16.89				
20	16QAM	50	24	17.08	16.84	16.88				
20	16QAM	50	50	16.92	16.80	16.85	18	0		
20	16QAM	100	0	17.04	16.82	16.90				
20	64QAM	1	0	17.27	16.94	17.03	18	0		
20	64QAM	1	49	17.12	16.96	16.94				
20	64QAM	1	99	16.97	16.89	16.94				
20	64QAM	50	0	17.09	16.86	16.89	18	0		
20	64QAM	50	24	17.07	16.90	16.89				
20	64QAM	50	50	16.94	16.85	16.91				
20	64QAM	100	0	17.05	16.85	16.89				
Channel				1867.5	1890.0	1912.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1880.0	1902.5				
15	QPSK	1	0	17.39	17.09	17.16	18	0		
15	QPSK	1	37	17.20	17.17	17.01				
15	QPSK	1	74	17.16	17.00	17.02				
15	QPSK	36	0	17.12	16.85	16.90	18	0		
15	QPSK	36	20	17.11	16.79	16.80				
15	QPSK	36	39	16.99	16.79	16.84				
15	QPSK	75	0	17.02	16.75	16.89	18	0		
15	16QAM	1	0	16.96	16.70	16.72				
15	16QAM	1	37	16.86	16.75	16.63				
15	16QAM	1	74	16.68	16.60	16.59	18	0		
15	16QAM	36	0	17.07	16.82	16.85				
15	16QAM	36	20	17.00	16.75	16.80				
15	16QAM	36	39	16.87	16.75	16.82	18	0		
15	16QAM	75	0	17.04	16.82	16.84				
15	64QAM	1	0	17.23	16.84	16.94				
15	64QAM	1	37	17.05	16.96	16.90	18	0		
15	64QAM	1	74	16.91	16.81	16.94				
15	64QAM	36	0	17.09	16.80	16.83				
15	64QAM	36	20	17.05	16.88	16.87	18	0		
15	64QAM	36	39	16.94	16.75	16.81				
15	64QAM	75	0	16.95	16.83	16.85				
Channel				1895.0	1890.0	1915.0	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1885	1880	1905				
10	QPSK	1	0	17.35	17.10	17.12	18	0		
10	QPSK	1	25	17.21	17.16	17.02				
10	QPSK	1	49	17.13	17.00	17.09				
10	QPSK	25	0	17.20	16.86	16.81	18	0		
10	QPSK	25	12	17.15	16.88	16.80				
10	QPSK	25	25	17.01	16.76	16.85				
10	QPSK	50	0	17.01	16.76	16.81	18	0		
10	16QAM	1	0	16.92	16.69	16.76				
10	16QAM	1	25	16.79	16.75	16.62				
10	16QAM	1	49	16.67	16.62	16.59	18	0		
10	16QAM	25	0	17.06	16.84	16.83				
10	16QAM	25	12	17.04	16.76	16.87				
10	16QAM	25	25	16.92	16.74	16.81	18	0		
10	16QAM	50	0	17.04	16.76	16.90				
10	64QAM	1	0	17.18	16.93	16.93				
10	64QAM	1	25	17.07	16.89	16.92	18	0		
10	64QAM	1	49	16.91	16.88	16.84				
10	64QAM	25	0	17.08	16.83	16.80				
10	64QAM	25	12	16.99	16.86	16.89	18	0		
10	64QAM	25	25	16.89	16.80	16.85				
10	64QAM	50	0	16.95	16.75	16.82				
Channel				1892.5	1890.0	1917.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1882.5	1880	1907.5				
5	QPSK	1	0	17.41	17.11	17.15	18	0		
5	QPSK	1	12	17.26	17.17	16.98				
5	QPSK	1	24	17.16	17.02	17.08				
5	QPSK	12	0	17.16	16.87	16.81	18	0		
5	QPSK	12	7	17.08	16.85	16.87				
5	QPSK	12	13	17.02	16.84	16.83				
5	QPSK	25	0	16.99	16.78	16.87	18	0		
5	16QAM	1	0	17.00	16.70	16.72				
5	16QAM	1	12	16.78	16.73	16.69				
5	16QAM	1	24	16.72	16.64	16.60	18	0		
5	16QAM	12	0	17.06	16.82	16.87				
5	16QAM	12	7	16.98	16.74	16.85				
5	16QAM	12	13	16.83	16.72	16.77	18	0		
5	16QAM	25	0	16.97	16.75	16.84				
5	64QAM	1	0	17.26	16.94	17.00				
5	64QAM	1	12	17.04	16.94	16.91	18	0		
5	64QAM	1	24	16.97	16.81	16.87				
5	64QAM	12	0	17.02	16.85	16.82				
5	64QAM	12	7	17.03	16.88	16.84	18	0		
5	64QAM	12	13	16.90	16.85	16.88				
5	64QAM	25	0	17.00	16.85	16.86				
Channel				1891.5	1890.0	1909.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1881.5	1880	1909.5				
3	QPSK	1	0	17.33	17.11	17.13	18	0		
3	QPSK	1	8	17.18	17.12	16.98				
3	QPSK	1	14	17.10	16.95	17.03				
3	QPSK	8	0	17.17	16.84	16.90	18	0		
3	QPSK	8	4	17.07	16.79	16.86				
3	QPSK	8	7	16.96	16.82	16.90				
3	QPSK	15	0	16.98	16.82	16.89	18	0		
3	16QAM	1	0	16.98	16.68	16.70				
3	16QAM	1	8	16.87	16.71	16.64				
3	16QAM	1	14	16.76	16.67	16.61	18	0		
3	16QAM	8	0	17.01	16.77	16.84				
3	16QAM	8	4	17.07	16.74	16.78				
3	16QAM	8	7	16.92	16.73	16.81	18	0		
3	16QAM	15	0	16.95	16.79	16.83				
3	64QAM	1	0	17.22	16.93	16.98				
3	64QAM	1	8	17.12	16.87	16.91	18	0		
3	64QAM	1	14	16.97	16.88	16.91				
3	64QAM	8	0	17.08	16.80	16.82				
3	64QAM	8								



Band 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)	
Channel				20065	20175	20305	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1732.5	1747.5			
20	QPSK	1	0	19.43	19.38	19.33	20	0	
20	QPSK	1	49	19.26	19.25	19.12			
20	QPSK	1	99	19.23	19.15	19.08	20	0	
20	QPSK	50	0	19.14	19.16	19.01			
20	QPSK	50	24	19.13	19.06	18.92	20	0	
20	QPSK	50	50	19.05	18.96	18.90			
20	QPSK	100	0	19.12	19.05	18.92	20	0	
20	16QAM	1	0	19.11	19.05	18.96			
20	16QAM	1	49	18.90	18.85	18.76	20	0	
20	16QAM	1	99	18.86	18.79	18.74			
20	16QAM	50	0	19.12	19.13	19.00	20	0	
20	16QAM	50	24	19.13	19.06	18.91			
20	16QAM	50	50	19.05	18.93	18.89	20	0	
20	16QAM	100	0	19.10	19.04	18.91			
20	64QAM	1	0	19.34	19.29	19.19	20	0	
20	64QAM	1	49	19.17	19.09	19.03			
20	64QAM	1	99	19.14	19.06	19.01	20	0	
20	64QAM	50	0	19.18	19.17	19.03			
20	64QAM	50	24	19.16	19.10	18.96	20	0	
20	64QAM	50	50	19.08	18.99	18.95			
20	64QAM	100	0	19.16	19.09	18.95	Channel		
Frequency (MHz)				20065	20175	20305	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	19.40	19.26	19.28	20	0	
15	QPSK	1	37	19.21	19.25	19.09			
15	QPSK	1	74	19.13	19.09	19.00	20	0	
15	QPSK	36	0	19.17	19.04	18.93			
15	QPSK	36	20	19.13	18.97	18.82	20	0	
15	QPSK	36	39	18.02	18.93	18.81			
15	QPSK	75	0	19.08	18.98	18.83	20	0	
15	16QAM	1	0	19.10	18.96	18.93			
15	16QAM	1	37	18.86	18.75	18.71	20	0	
15	16QAM	1	74	18.77	18.79	18.74			
15	16QAM	36	0	19.05	19.04	18.90	20	0	
15	16QAM	36	20	19.12	19.05	18.81			
15	16QAM	36	39	18.97	18.87	18.89	20	0	
15	16QAM	75	0	19.04	19.04	18.82			
15	64QAM	1	0	19.32	19.26	19.18	20	0	
15	64QAM	1	37	19.07	19.03	18.97			
15	64QAM	1	74	19.04	18.98	18.95	20	0	
15	64QAM	36	0	19.15	19.16	18.97			
15	64QAM	36	20	19.14	19.10	18.88	20	0	
15	64QAM	36	39	18.98	18.92	18.94			
15	64QAM	75	0	19.12	19.07	18.95	Channel		
Frequency (MHz)				20060	20175	20350	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	19.40	19.32	19.26	20	0	
10	QPSK	1	25	19.18	19.17	19.10			
10	QPSK	1	49	19.23	19.07	18.98	20	0	
10	QPSK	25	0	19.12	19.02	18.83			
10	QPSK	25	12	19.12	19.02	18.83	20	0	
10	QPSK	25	25	18.95	18.94	18.90			
10	QPSK	50	0	19.10	18.99	18.85	20	0	
10	16QAM	1	0	19.10	18.96	18.88			
10	16QAM	1	25	18.81	18.79	18.66	20	0	
10	16QAM	1	49	18.85	18.75	18.71			
10	16QAM	25	0	19.10	19.11	18.95	20	0	
10	16QAM	25	12	19.04	18.96	18.85			
10	16QAM	25	25	19.00	18.85	18.85	20	0	
10	16QAM	50	0	19.04	18.95	18.82			
10	64QAM	1	0	19.33	19.27	19.15	20	0	
10	64QAM	1	25	19.09	19.00	18.99			
10	64QAM	1	49	19.09	18.96	18.95	20	0	
10	64QAM	25	0	19.10	19.15	18.98			
10	64QAM	25	12	19.08	19.09	18.87	20	0	
10	64QAM	25	25	19.04	18.99	18.95			
10	64QAM	50	0	19.11	19.04	18.95	Channel		
Frequency (MHz)				1721.5	1732.5	1752.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	19.40	19.26	19.33	20	0	
5	QPSK	1	12	19.21	19.15	19.03			
5	QPSK	1	24	19.20	19.13	19.06	20	0	
5	QPSK	12	0	19.16	19.02	18.95			
5	QPSK	12	7	19.09	19.00	18.88	20	0	
5	QPSK	12	13	19.02	18.87	18.88			
5	QPSK	25	0	19.12	18.96	18.90	20	0	
5	16QAM	1	0	19.08	19.04	18.90			
5	16QAM	1	12	18.88	18.75	18.67	20	0	
5	16QAM	1	24	18.84	18.71	18.71			
5	16QAM	12	0	19.09	19.07	18.93	20	0	
5	16QAM	12	7	19.10	19.05	18.88			
5	16QAM	12	13	19.04	18.92	18.88	20	0	
5	16QAM	25	0	19.05	19.01	18.88			
5	64QAM	1	0	19.30	19.21	19.16	20	0	
5	64QAM	1	12	19.17	19.04	18.98			
5	64QAM	1	24	19.08	19.03	19.01	20	0	
5	64QAM	12	0	19.16	19.11	18.97			
5	64QAM	12	7	19.14	19.02	18.91	20	0	
5	64QAM	12	13	19.02	18.97	18.87			
5	64QAM	25	0	19.09	19.03	18.92	Channel		
Frequency (MHz)				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)	
3	QPSK	1	0	19.41	19.28	19.31	20	0	
3	QPSK	1	8	19.25	19.25	19.03			
3	QPSK	1	14	19.17	19.13	18.99	20	0	
3	QPSK	8	0	19.11	19.06	18.97			
3	QPSK	8	4	19.09	19.05	18.87	20	0	
3	QPSK	8	7	19.02	18.95	18.81			
3	QPSK	15	0	19.03	18.98	18.86	20	0	
3	16QAM	1	0	19.09	19.05	18.87			
3	16QAM	1	8	18.82	18.82	18.71	20	0	
3	16QAM	1	14	18.77	18.77	18.67			
3	16QAM	8	0	19.09	19.04	18.96	20	0	
3	16QAM	8	4	19.13	19.06	18.94			
3	16QAM	8	7	19.00	18.88	18.85	20	0	
3	16QAM	15	0	19.07	19.01	18.90			
3	64QAM	1	0	19.29	19.26	19.13	20	0	
3	64QAM	1	8	19.09	19.04	18.99			
3	64QAM	1	14	19.11	19.04	18.97	20	0	
3	64QAM	8	0	19.18	19.15	19.00			
3	64QAM	8	4	19.11	19.02	18.95	20	0	
3	64QAM	8	7	19.00	18.99	18.94			
3	64QAM	15	0	19.07	19.08	18.92	Channel		
Frequency (MHz)				19967 <th>20175</th> <th>20393</th> <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	20175	20393	Tune-up limit (dBm)	MPR (dB)	
1.4	QPSK	1	0	19.36	19.31	19.25	20	0	
1.4	QPSK	1	3	19.17	19.24	19.05			
1.4	QPSK	1	5	19.17	19.13	19.04	20	0	
1.4	QPSK	3	0	19.17	18.97	18.99			
1.4	QPSK	3	1	19.06	19.00	18.83	20	0	
1.4	QPSK	3	3	18.96	18.86	18.82			
1.4	QPSK	6	0	19.02	19.04	18.90	20	0	
1.4	16QAM	1	0	19.11	18.97	18.87			
1.4	16QAM	1	3	18.89	18.79	18.70	20	0	
1.4	16QAM	1	5	18.79	18.71	18.66			
1.4	16QAM	3	0	19.12	19.11	18.90	20	0	
1.4	16QAM	3	1	19.04	19.03	18.89			
1.4	16QAM	3	3	18.96	18.82	18.88	20	0	
1.4	16QAM	3	5	18.86	18.79	18.74			
1.4	16QAM	3	7	18.81	18.76	18.71	20	0	
1.4	16QAM	3	9	18.76	18.71	18.66			
1.4	16QAM	3	11	18.71	18.66	18.61	20	0	
1.4	16QAM	3	13	18.66	18.61	18.56			
1.4	16QAM	3	15	18.61	18.56	18.51	20	0	
1.4	16QAM	3	17	18.56	18.51	18.46			
1.4	16QAM	3	19	18.51	18.46	18.41	20	0	
1.4	16QAM	3	21	18.46	18.41	18.36			
1.4	16QAM	3	23	18.41	18.36	18.31	20	0	
1.4	16QAM	3	25	18.36	18.31	18.26			
1.4	16QAM	3	27	18.31	18.26	18.21	20	0	
1.4	16QAM	3	29	18.26	18.21	18.16			
1.4	16QAM	3	31	18.21	18.16	18.11	20	0	
1.4	16QAM	3	33	18.16	18.11	18.06			
1.4	16QAM	3	35	18.11	18.06	18.01	20	0	
1.4	16QAM	3	37	18.06	18.01	17.96			
1.4	16QAM	3	39	18.01	17.96	17.91	20	0	
1.4	16QAM	3	41	17.96	17.91	17.86			
1.4	16QAM	3	43	17.91	17.86	17.81	20	0	
1.4	16QAM	3	45	17.86	17.81	17.76			
1.4	16QAM	3	47	17.81	17.76	17.71	20	0	
1.4	16QAM	3	49	17.76	17.71	17.66			
1.4	16QAM	3	51	17.71	17.66	17.61	20	0	
1.4	16QAM	3	53	17.66	17.61	17.56			
1.4	16QAM	3	55	17.61	17.56	17.51	20	0	
1.4	16QAM	3	57	17.56	17.51	17.46			
1.4	16QAM	3	59	17.51	17.46	17.41	20	0	
1.4	16QAM	3	61	17.46	17.41	17.36			
1.4	16QAM	3	63	17.41	17.36	17.31	20	0	
1.4	16QAM	3	65	17.36	17.31	17.26			
1.4	16QAM	3	67	17.31	17.26	17.21	20	0	
1.4	16QAM	3	69	17.26	17.21	17.16			
1.4	16QAM	3	71	17.21	17.16	17.11	20	0	
1.4	16QAM	3	73	17.16	17.11	17.06			
1.4	16QAM	3	75	17.11	17.06	17.01	20	0	
1.4	16QAM	3	77	17.06	17.01	16.96			
1.4	16QAM	3	79	17.01	16.96	16.91	20	0	
1.									



Band 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	23.81	23.89	23.77	25	0	
10	QPSK	1	25	23.71	23.85	23.53			
10	QPSK	1	49	23.65	23.69	23.61			
10	QPSK	25	0	22.90	22.92	22.89	24	1	
10	QPSK	25	12	22.89	22.90	22.79			
10	QPSK	25	25	22.78	22.85	22.88			
10	QPSK	50	0	22.90	22.93	22.77	24	1	
10	16QAM	1	0	23.48	22.80	23.03			
10	16QAM	1	25	22.88	23.21	22.85			
10	16QAM	1	49	23.31	22.73	22.81	23	2	
10	16QAM	25	0	21.81	21.93	21.76			
10	16QAM	25	12	21.83	21.96	21.90			
10	16QAM	25	25	21.96	22.05	21.86	23	2	
10	16QAM	50	0	21.90	21.89	21.74			
10	64QAM	1	0	22.12	22.21	21.77	23	2	
10	64QAM	1	25	22.42	21.85	21.96			
10	64QAM	1	49	21.68	21.64	21.23			
10	64QAM	25	0	20.98	20.96	20.29	22	3	
10	64QAM	25	12	20.90	21.05	20.37			
10	64QAM	25	25	20.96	20.98	20.53			
10	64QAM	50	0	21.03	20.91	20.51			
Channel				20452	20525	20602	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	845.5			
5	QPSK	1	0	23.68	23.72	23.86	25	0	
5	QPSK	1	12	23.72	23.84	23.81			
5	QPSK	1	24	23.76	23.83	23.83			
5	QPSK	12	0	22.85	23.00	22.84	24	1	
5	QPSK	12	7	22.96	22.91	22.84			
5	QPSK	12	13	22.92	22.87	22.81			
5	QPSK	25	0	22.82	22.88	22.77	24	1	
5	16QAM	1	0	23.03	23.21	23.30			
5	16QAM	1	12	23.23	23.33	22.94			
5	16QAM	1	24	23.34	22.91	22.80	23	2	
5	16QAM	12	0	21.88	22.02	21.89			
5	16QAM	12	7	21.90	21.96	21.91			
5	16QAM	12	13	21.98	21.94	21.76	23	2	
5	16QAM	25	0	21.91	21.90	21.91			
5	64QAM	1	0	22.21	22.21	21.94			
5	64QAM	1	12	21.97	22.19	21.89	23	2	
5	64QAM	1	24	21.88	21.90	21.82			
5	64QAM	12	0	20.86	21.12	20.84			
5	64QAM	12	7	21.00	20.95	20.96	22	3	
5	64QAM	12	13	20.95	20.81	20.78			
5	64QAM	25	0	20.97	20.93	20.92			
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	23.82	23.84	23.64	25	0	
3	QPSK	1	8	23.87	23.88	23.80			
3	QPSK	1	14	23.71	23.71	23.77			
3	QPSK	8	0	22.91	22.92	22.74	24	1	
3	QPSK	8	4	22.97	22.88	22.76			
3	QPSK	8	7	22.86	22.88	22.94			
3	QPSK	15	0	22.95	22.85	22.75	24	1	
3	16QAM	1	0	23.15	22.94	22.72			
3	16QAM	1	8	23.25	22.96	22.83			
3	16QAM	1	14	23.31	22.86	23.04	23	2	
3	16QAM	8	0	21.88	21.96	21.84			
3	16QAM	8	4	22.06	21.92	21.84			
3	16QAM	8	7	21.92	21.94	21.86	23	2	
3	16QAM	15	0	21.91	21.89	21.81			
3	64QAM	1	0	22.24	22.26	22.15			
3	64QAM	1	8	22.13	22.17	22.19	23	2	
3	64QAM	1	14	22.05	22.06	21.92			
3	64QAM	8	0	20.83	21.16	20.87			
3	64QAM	8	4	20.88	20.93	20.79	22	3	
3	64QAM	8	7	20.79	20.88	20.82			
3	64QAM	15	0	21.02	20.81	20.89			
Channel				20467	20525	20643	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	23.68	23.79	23.70	25	0	
1.4	QPSK	1	3	23.76	23.72	23.65			
1.4	QPSK	1	5	23.63	23.71	23.62			
1.4	QPSK	3	0	23.69	23.76	23.66	24	1	
1.4	QPSK	3	1	23.86	23.79	23.78			
1.4	QPSK	3	3	23.70	23.67	23.64			
1.4	QPSK	6	0	22.76	22.88	22.72	24	1	
1.4	16QAM	1	0	23.35	23.24	23.26			
1.4	16QAM	1	3	22.74	23.36	23.26			
1.4	16QAM	1	5	22.96	23.26	23.15	24	1	
1.4	16QAM	3	0	22.88	22.78	22.77			
1.4	16QAM	3	1	22.92	22.92	22.86			
1.4	16QAM	3	3	22.83	22.81	22.80	23	2	
1.4	16QAM	6	0	21.90	21.90	21.85			
1.4	64QAM	1	0	21.69	21.88	21.83			
1.4	64QAM	1	3	21.99	22.13	21.88	23	2	
1.4	64QAM	1	5	21.83	22.02	21.85			
1.4	64QAM	3	0	22.05	21.90	21.98			
1.4	64QAM	3	1	22.03	22.06	21.67	22	3	
1.4	64QAM	3	3	21.99	21.96	22.01			
1.4	64QAM	6	0	20.78	20.87	20.78			



Band 7											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	Tune-up limit (dBm)	MPR (dB)			
Channel				20890	21100	21390					
Frequency (MHz)				2510	2535	2560					
20	QPSK	1	0	17.23	17.41	17.34	18	0			
20	QPSK	1	49	17.24	17.34	17.34					
20	QPSK	1	99	17.20	17.21	17.26					
20	QPSK	50	0	17.09	17.20	17.12	18	0			
20	QPSK	50	24	17.08	17.12	17.10					
20	QPSK	50	50	16.99	17.06	17.08					
20	QPSK	100	0	16.98	17.07	17.05	18	0			
20	16QAM	1	0	16.80	16.83	16.93					
20	16QAM	1	49	16.92	16.98	16.99					
20	16QAM	1	99	16.94	17.03	16.97	18	0			
20	16QAM	50	0	16.97	17.02	17.06					
20	16QAM	50	24	17.05	17.10	17.10					
20	16QAM	50	50	17.07	17.16	17.09	18	0			
20	16QAM	100	0	16.96	17.07	17.09					
20	64QAM	1	0	17.03	17.04	17.14					
20	64QAM	1	49	17.06	17.21	17.29	18	0			
20	64QAM	1	99	17.13	17.30	17.13					
20	64QAM	50	0	16.98	17.05	17.09					
20	64QAM	50	24	17.11	17.12	17.14	18	0			
20	64QAM	50	50	17.08	17.20	17.10					
20	64QAM	100	0	17.00	17.06	17.04					
Channel				2535	2535	2535	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5					
15	QPSK	1	0	17.23	17.34	17.34	18	0			
15	QPSK	1	37	17.14	17.26	17.33					
15	QPSK	1	74	17.16	17.21	17.22					
15	QPSK	36	0	17.09	17.16	17.08	18	0			
15	QPSK	36	20	16.98	17.10	17.07					
15	QPSK	36	39	16.90	16.97	17.08					
15	QPSK	75	0	16.88	17.02	16.99	18	0			
15	16QAM	1	0	16.71	16.80	16.85					
15	16QAM	1	37	16.91	16.89	16.98					
15	16QAM	1	74	16.89	17.02	16.95	18	0			
15	16QAM	36	0	16.88	16.94	17.00					
15	16QAM	36	20	16.98	17.10	17.06					
15	16QAM	36	39	17.01	17.14	17.03	18	0			
15	16QAM	75	0	16.93	17.03	17.08					
15	64QAM	1	0	16.99	16.95	17.09					
15	64QAM	1	37	17.05	17.14	17.14	18	0			
15	64QAM	1	74	17.04	17.25	17.07					
15	64QAM	36	0	16.89	17.05	17.00					
15	64QAM	36	20	17.02	17.03	17.05	18	0			
15	64QAM	36	39	17.02	17.13	17.08					
15	64QAM	75	0	16.91	17.04	16.97					
Channel				2560	21100	21400	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				2505	2535	2565					
10	QPSK	1	0	17.29	17.33	17.34	18	0			
10	QPSK	1	25	17.22	17.34	17.33					
10	QPSK	1	49	17.15	17.13	17.21					
10	QPSK	25	0	16.99	17.11	17.05	18	0			
10	QPSK	25	12	17.02	17.10	17.10					
10	QPSK	25	25	16.89	16.97	17.08					
10	QPSK	50	0	16.89	17.05	17.05	18	0			
10	16QAM	1	0	16.72	16.74	16.85					
10	16QAM	1	25	16.89	16.91	16.91					
10	16QAM	1	49	16.86	16.93	16.92	18	0			
10	16QAM	25	0	16.95	16.92	16.96					
10	16QAM	25	12	16.95	17.00	17.01					
10	16QAM	25	25	17.03	17.16	16.99	18	0			
10	16QAM	50	0	16.91	17.02	17.01					
10	64QAM	1	0	16.96	16.95	17.11					
10	64QAM	1	25	17.01	17.13	17.22	18	0			
10	64QAM	1	49	17.07	17.28	17.11					
10	64QAM	25	0	16.88	17.04	16.99					
10	64QAM	25	12	17.02	17.02	17.08	18	0			
10	64QAM	25	25	17.08	17.12	17.06					
10	64QAM	50	0	16.98	17.04	17.00					
Channel				2575	21100	21425	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5					
5	QPSK	1	0	17.33	17.33	17.33	18	0			
5	QPSK	1	12	17.20	17.25	17.28					
5	QPSK	1	24	17.18	17.15	17.21					
5	QPSK	12	0	17.00	17.11	17.11	18	0			
5	QPSK	12	7	17.04	17.06	17.08					
5	QPSK	12	13	16.92	16.96	17.08					
5	QPSK	25	0	16.92	16.97	16.97	18	0			
5	16QAM	1	0	16.72	16.78	16.91					
5	16QAM	1	12	16.92	16.97	16.93					
5	16QAM	1	24	16.84	17.02	16.98	18	0			
5	16QAM	12	0	16.97	17.00	17.01					
5	16QAM	12	7	16.95	17.01	17.10					
5	16QAM	12	13	17.04	17.16	17.01	18	0			
5	16QAM	25	0	16.88	17.04	17.07					
5	64QAM	1	0	17.00	16.99	17.12					
5	64QAM	1	12	17.04	17.12	17.13	18	0			
5	64QAM	1	24	17.04	17.24	17.09					
5	64QAM	12	0	16.92	16.97	17.01					
5	64QAM	12	7	17.02	17.08	17.11	18	0			
5	64QAM	12	13	16.99	17.16	17.05					
5	64QAM	25	0	16.91	16.99	17.02					



Band 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / dBm	Power Middle Ch. / dBm	Power High Ch. / dBm	Tune-up limit (dBm)	MPR (dB)		
Channel				20850	21100	21350				
Frequency (MHz)				2610	2635	2660				
20	QPSK	1	0	18.71	18.87	18.76	20	0		
20	QPSK	1	49	18.76	18.82	18.77				
20	QPSK	1	99	18.78	18.80	18.76				
20	QPSK	50	0	18.66	18.75	18.69				
20	QPSK	50	24	18.63	18.70	18.54	20	0		
20	QPSK	50	50	18.70	18.65	18.52				
20	QPSK	100	0	18.61	18.58	18.56				
20	16QAM	1	0	18.53	18.53	18.60				
20	16QAM	1	49	18.63	18.58	18.57	20	0		
20	16QAM	1	99	18.64	18.52	18.47				
20	16QAM	50	0	18.57	18.57	18.54				
20	16QAM	50	24	18.62	18.65	18.54				
20	16QAM	50	50	18.68	18.62	18.53	20	0		
20	16QAM	100	0	18.57	18.55	18.52				
20	64QAM	1	0	18.59	18.70	18.65				
20	64QAM	1	49	18.74	18.72	18.70	20	0		
20	64QAM	1	99	18.72	18.69	18.58				
20	64QAM	50	0	18.59	18.61	18.57				
20	64QAM	50	24	18.65	18.67	18.59				
20	64QAM	50	50	18.72	18.66	18.55	20	0		
20	64QAM	100	0	18.59	18.59	18.54				
Channel							Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
15	QPSK	1	0	18.67	18.80	18.75	20	0		
15	QPSK	1	37	18.66	18.82	18.70				
15	QPSK	1	74	18.78	18.75	18.66				
15	QPSK	36	0	18.60	18.67	18.62				
15	QPSK	36	20	18.57	18.64	18.45	20	0		
15	QPSK	36	39	18.63	18.59	18.50				
15	QPSK	75	0	18.56	18.58	18.52				
15	16QAM	1	0	18.46	18.46	18.58				
15	16QAM	1	37	18.55	18.56	18.52	20	0		
15	16QAM	1	74	18.55	18.48	18.38				
15	16QAM	36	0	18.56	18.53	18.49				
15	16QAM	36	20	18.54	18.60	18.49				
15	16QAM	36	39	18.65	18.59	18.51	20	0		
15	16QAM	75	0	18.48	18.47	18.42				
15	64QAM	1	0	18.58	18.64	18.57				
15	64QAM	1	37	18.68	18.71	18.65	20	0		
15	64QAM	1	74	18.68	18.61	18.48				
15	64QAM	36	0	18.56	18.56	18.51				
15	64QAM	36	20	18.64	18.65	18.54				
15	64QAM	36	39	18.64	18.63	18.50	20	0		
15	64QAM	75	0	18.56	18.59	18.50				
Channel							Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	18.68	18.86	18.71	20	0		
10	QPSK	1	25	18.72	18.73	18.72				
10	QPSK	1	49	18.74	18.76	18.67				
10	QPSK	25	0	18.58	18.67	18.60				
10	QPSK	25	12	18.56	18.66	18.47	20	0		
10	QPSK	25	25	18.66	18.62	18.44				
10	QPSK	50	0	18.54	18.56	18.56				
10	16QAM	1	0	18.45	18.44	18.55				
10	16QAM	1	25	18.63	18.55	18.54	20	0		
10	16QAM	1	49	18.64	18.51	18.44				
10	16QAM	25	0	18.57	18.56	18.49				
10	16QAM	25	12	18.56	18.55	18.54				
10	16QAM	25	25	18.61	18.58	18.48	20	0		
10	16QAM	50	0	18.51	18.55	18.45				
10	64QAM	1	0	18.50	18.67	18.56				
10	64QAM	1	25	18.66	18.70	18.64				
10	64QAM	1	49	18.63	18.67	18.57	20	0		
10	64QAM	25	0	18.56	18.59	18.53				
10	64QAM	25	12	18.55	18.66	18.49				
10	64QAM	25	25	18.69	18.60	18.47				
10	64QAM	50	0	18.59	18.56	18.52	20	0		
Channel							Tune-up limit (dBm)			
Frequency (MHz)										
5	QPSK	1	0	18.67	18.81	18.76	20	0		
5	QPSK	1	12	18.69	18.82	18.76				
5	QPSK	1	24	18.73	18.71	18.66				
5	QPSK	12	0	18.64	18.72	18.62				
5	QPSK	12	7	18.59	18.60	18.48	20	0		
5	QPSK	12	13	18.70	18.55	18.48				
5	QPSK	25	0	18.59	18.58	18.48				
5	16QAM	1	0	18.45	18.52	18.50				
5	16QAM	1	12	18.57	18.50	18.50	20	0		
5	16QAM	1	24	18.58	18.49	18.39				
5	16QAM	12	0	18.55	18.55	18.49				
5	16QAM	12	7	18.60	18.60	18.52				
5	16QAM	12	13	18.64	18.56	18.46	20	0		
5	16QAM	25	0	18.55	18.55	18.43				
5	64QAM	1	0	18.49	18.66	18.61				
5	64QAM	1	12	18.70	18.69	18.61				
5	64QAM	1	24	18.62	18.59	18.48	20	0		
5	64QAM	12	0	18.49	18.59	18.57				
5	64QAM	12	7	18.63	18.63	18.56				
5	64QAM	12	13	18.68	18.61	18.49				
5	64QAM	25	0	18.52	18.58	18.54				



Band 38									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	24.5	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.30	23.32	23.35			
20	QPSK	1	49	23.26	23.31	23.29	23.5	1	
20	QPSK	1	99	23.24	23.23	23.25			
20	QPSK	50	0	22.38	22.48	22.43			
20	QPSK	50	24	22.37	22.48	22.38	23.5	1	
20	QPSK	50	50	22.43	22.31	22.42			
20	QPSK	100	0	22.36	22.43	22.38			
20	16QAM	1	0	22.39	22.45	22.43	23.5	1	
20	16QAM	1	49	22.37	22.36	22.41			
20	16QAM	1	99	22.36	22.33	22.41			
20	16QAM	50	0	21.41	21.51	21.46	22.5	2	
20	16QAM	50	24	21.40	21.49	21.42			
20	16QAM	50	50	21.47	21.36	21.44			
20	16QAM	100	0	21.40	21.47	21.40	22.5	2	
20	64QAM	1	0	20.98	21.01	21.04			
20	64QAM	1	49	20.97	21.00	21.01			
20	64QAM	1	99	20.94	20.98	21.01	21.5	3	
20	64QAM	50	0	20.42	20.54	20.45			
20	64QAM	50	24	20.41	20.51	20.43			
20	64QAM	50	50	20.43	20.34	20.44	21.5	3	
20	64QAM	100	0	20.39	20.48	20.42			
Channel				37825	38000	38175	24.5	0	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.24	23.24	23.25			
15	QPSK	1	37	23.19	23.28	23.27	23.5	1	
15	QPSK	1	74	23.16	23.19	23.17			
15	QPSK	36	0	22.33	22.44	22.35			
15	QPSK	36	20	22.33	22.46	22.31	23.5	1	
15	QPSK	36	39	22.38	22.22	22.38			
15	QPSK	75	0	22.33	22.34	22.30			
15	16QAM	1	0	22.31	22.40	22.40	23.5	1	
15	16QAM	1	37	22.34	22.30	22.38			
15	16QAM	1	74	22.30	22.30	22.39			
15	16QAM	36	0	21.37	21.47	21.37	22.5	2	
15	16QAM	36	20	21.31	21.40	21.33			
15	16QAM	36	39	21.45	21.32	21.42			
15	16QAM	75	0	21.39	21.45	21.39	22.5	2	
15	64QAM	1	0	20.98	20.96	21.03			
15	64QAM	1	37	20.96	21.00	21.00			
15	64QAM	1	74	20.92	20.98	20.92	21.5	3	
15	64QAM	36	0	20.32	20.46	20.43			
15	64QAM	36	20	20.40	20.50	20.41			
15	64QAM	36	39	20.37	20.24	20.37	21.5	3	
15	64QAM	75	0	20.37	20.44	20.33			
Channel				37800	38000	38200	24.5	0	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.28	23.22	23.33			
10	QPSK	1	25	23.23	23.23	23.19	23.5	1	
10	QPSK	1	49	23.19	23.23	23.19			
10	QPSK	25	0	22.35	22.42	22.35			
10	QPSK	25	12	22.34	22.47	22.37	23.5	1	
10	QPSK	25	25	22.34	22.26	22.34			
10	QPSK	50	0	22.36	22.36	22.36			
10	16QAM	1	0	22.29	22.41	22.34	23.5	1	
10	16QAM	1	25	22.27	22.29	22.38			
10	16QAM	1	49	22.30	22.24	22.33			
10	16QAM	25	0	21.31	21.45	21.37	22.5	2	
10	16QAM	25	12	21.39	21.43	21.36			
10	16QAM	25	25	21.42	21.30	21.44			
10	16QAM	50	0	21.35	21.43	21.34	22.5	2	
10	64QAM	1	0	20.93	20.98	21.02			
10	64QAM	1	25	20.88	20.93	20.97			
10	64QAM	1	49	20.84	20.91	20.95	21.5	3	
10	64QAM	25	0	20.42	20.52	20.36			
10	64QAM	25	12	20.31	20.47	20.39			
10	64QAM	25	25	20.40	20.33	20.34	21.5	3	
10	64QAM	50	0	20.37	20.43	20.38			
Channel				37775	38000	38225	24.5	0	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.23	23.23	23.31			
5	QPSK	1	12	23.24	23.22	23.23	23.5	1	
5	QPSK	1	24	23.21	23.15	23.16			
5	QPSK	12	0	22.31	22.42	22.39			
5	QPSK	12	7	22.36	22.43	22.38	23.5	1	
5	QPSK	12	13	22.40	22.21	22.33			
5	QPSK	25	0	22.35	22.42	22.31			
5	16QAM	1	0	22.39	22.35	22.39	23.5	1	
5	16QAM	1	12	22.33	22.34	22.32			
5	16QAM	1	24	22.35	22.24	22.35			
5	16QAM	12	0	21.32	21.47	21.41	22.5	2	
5	16QAM	12	7	21.33	21.45	21.42			
5	16QAM	12	13	21.45	21.34	21.36			
5	16QAM	25	0	21.36	21.47	21.39	22.5	2	
5	64QAM	1	0	20.95	20.99	20.99			
5	64QAM	1	12	20.93	21.00	21.00			
5	64QAM	1	24	20.88	20.96	20.96	21.5	3	
5	64QAM	12	0	20.39	20.54	20.40			
5	64QAM	12	7	20.31	20.43	20.42			
5	64QAM	12	13	20.43	20.28	20.40	21.5	3	
5	64QAM	25	0	20.30	20.46	20.36			



Band 41												
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				39750	40185	40620	41055	41490	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.47	23.27	23.35	23.37	23.25	24.5	0		
20	QPSK	1	49	23.44	23.18	23.25	23.20	23.08				
20	QPSK	1	99	23.38	23.08	23.28	23.18	23.11				
20	QPSK	50	0	22.55	22.29	22.36	22.35	22.29	23.5	1		
20	QPSK	50	24	22.55	22.37	22.32	22.39	22.24				
20	QPSK	50	50	22.54	22.26	22.37	22.33	22.21				
20	QPSK	100	0	22.59	22.36	22.31	22.38	22.25	23.5	1		
20	16QAM	1	0	22.59	22.38	22.49	22.50	22.35				
20	16QAM	1	49	22.52	22.27	22.30	22.34	22.17				
20	16QAM	1	99	22.54	22.18	22.33	22.29	22.17	22.5	2		
20	16QAM	50	0	21.58	21.32	21.39	21.40	21.32				
20	16QAM	50	24	21.61	21.36	21.37	21.40	21.31				
20	16QAM	50	50	21.59	21.31	21.39	21.37	21.24	22.5	2		
20	16QAM	100	0	21.59	21.37	21.34	21.41	21.29				
20	64QAM	1	0	21.21	20.93	21.05	21.03	20.92				
20	64QAM	1	49	21.06	20.86	20.96	20.93	20.80	21.5	2		
20	64QAM	1	99	21.14	20.78	20.93	20.84	20.80				
20	64QAM	50	0	20.60	20.33	20.37	20.41	20.30				
20	64QAM	50	24	20.61	20.40	20.36	20.44	20.30	21.5	3		
20	64QAM	50	50	20.58	20.31	20.39	20.35	20.26				
20	64QAM	100	0	20.62	20.38	20.34	20.42	20.28				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	23.41	23.19	23.32	23.34	23.25	24.5	0		
15	QPSK	1	37	23.34	23.10	23.21	23.15	23.01				
15	QPSK	1	74	23.28	23.01	23.25	23.14	23.06				
15	QPSK	36	0	22.54	22.24	22.27	22.29	22.24	23.5	1		
15	QPSK	36	20	22.46	22.35	22.27	22.29	22.23				
15	QPSK	36	39	22.46	22.21	22.33	22.27	22.19				
15	QPSK	75	0	22.57	22.30	22.22	22.33	22.17	23.5	1		
15	16QAM	1	0	22.56	22.29	22.41	22.47	22.38				
15	16QAM	1	37	22.50	22.23	22.23	22.26	22.15				
15	16QAM	1	74	22.51	22.13	22.26	22.21	22.10	22.5	2		
15	16QAM	36	0	21.50	21.31	21.38	21.32	21.30				
15	16QAM	36	20	21.57	21.36	21.27	21.35	21.23				
15	16QAM	36	39	21.53	21.28	21.37	21.36	21.20	21.5	3		
15	16QAM	75	0	21.54	21.31	21.29	21.32	21.19				
15	64QAM	1	0	21.19	20.89	21.02	20.98	20.90				
15	64QAM	1	37	20.97	20.83	20.91	20.88	20.71	20.62	20.35		
15	64QAM	1	74	21.10	20.77	20.83	20.82	20.79				
15	64QAM	36	0	20.50	20.25	20.31	20.40	20.29				
15	64QAM	36	20	20.58	20.35	20.33	20.39	20.26	21.5	3		
15	64QAM	36	39	20.52	20.23	20.32	20.34	20.18				
15	64QAM	75	0	20.62	20.35	20.31	20.36	20.25				
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2501	2547	2593	2639	2685	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	23.43	23.27	23.32	23.29	23.16	24.5	0		
10	QPSK	1	25	23.34	23.10	23.20	23.15	22.98				
10	QPSK	1	49	23.30	22.98	23.19	23.17	23.03				
10	QPSK	25	0	22.46	22.23	22.26	22.30	22.29	23.5	1		
10	QPSK	25	12	22.50	22.37	22.26	22.39	22.15				
10	QPSK	25	25	22.45	22.23	22.29	22.25	22.14				
10	QPSK	50	0	22.51	22.32	22.29	22.33	22.17	23.5	1		
10	16QAM	1	0	22.59	22.30	22.48	22.40	22.30				
10	16QAM	1	25	22.43	22.20	22.23	22.32	22.14				
10	16QAM	1	49	22.52	22.12	22.29	22.22	22.15	22.5	2		
10	16QAM	25	0	21.48	21.22	21.37	21.33	21.22				
10	16QAM	25	12	21.52	21.35	21.33	21.40	21.24				
10	16QAM	25	25	21.51	21.30	21.35	21.33	21.17	21.5	3		
10	16QAM	50	0	21.57	21.30	21.28	21.39	21.20				
10	64QAM	1	0	21.12	20.92	20.99	21.01	20.90				
10	64QAM	1	25	21.03	20.85	20.88	20.83	20.77	20.62	20.35		
10	64QAM	1	49	21.08	20.74	20.88	20.82	20.71				
10	64QAM	25	0	20.57	20.29	20.33	20.39	20.24				
10	64QAM	25	12	20.55	20.35	20.30	20.40	20.25	21.5	3		
10	64QAM	25	25	20.52	20.29	20.36	20.34	20.24				
10	64QAM	50	0	20.55	20.30	20.27	20.38	20.21				
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2481.5	2525.8	2571	2616.5	2662.5	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	23.41	23.27	23.31	23.34	23.24	24.5	0		
5	QPSK	1	12	23.39	23.09	23.22	23.14	23.03				
5	QPSK	1	24	23.31	23.01	23.26	23.10	23.05				
5	QPSK	12	0	22.54	22.20	22.34	22.30	22.20	23.5	1		
5	QPSK	12	7	22.45	22.34	22.31	22.35	22.18				
5	QPSK	12	13	22.52	22.30	22.37	22.28	22.20				
5	QPSK	25	0	22.50	22.28	22.26	22.37	22.15	23.5	1		
5	16QAM	1	0	22.50	22.31	22.49	22.44	22.32				
5	16QAM	1	12	22.43	22.24	22.30	22.34	22.16				
5	16QAM	1	24	22.45	22.10	22.33	22.29	22.12	22.5	2		
5	16QAM	12	0	21.54	21.28	21.36	21.35	21.29				
5	16QAM	12	7	21.54	21.32	21.36	21.37	21.25				
5	16QAM	12	13	21.54	21.21	21.34	21.33	21.23	22.5	2		
5	16QAM	25	0	21.52	21.36	21.29	21.38	21.25				
5	64QAM	1	0	21.14	20.91	20.99	20.84	20.86				
5	64QAM	1	12	21.02	20.85	20.92	20.86	20.77	22.5	2		
5	64QAM	1	24	21.10	20.71	20.86	20.78	20.77				
5	64QAM	12	0	20.53	20.28	20.29	20.31	20.27				
5	64QAM	12	7	20.53	20.37	20.27	20.44	20.23	21.5	3		
5	64QAM	12	13	20.49	20.24	20.38	20.26	20.26				
5	64QAM	25	0	20.55	20.30	20.34	20.37	20.23				



Band 38									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	25	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.95	23.99	23.91	24	1	
20	QPSK	1	49	23.96	23.97	23.88			
20	QPSK	1	99	23.93	23.95	23.89			
20	QPSK	50	0	23.12	23.20	23.01	24	1	
20	QPSK	50	24	23.12	23.13	23.00			
20	QPSK	50	50	23.17	23.04	23.04			
20	QPSK	100	0	23.11	23.13	22.98	24	1	
20	16QAM	1	0	23.09	23.08	23.02			
20	16QAM	1	49	23.08	23.07	22.99			
20	16QAM	1	99	23.13	23.08	23.01	23	2	
20	16QAM	50	0	22.12	22.20	22.04			
20	16QAM	50	24	22.13	22.17	22.03			
20	16QAM	50	50	22.20	22.08	22.08	23	2	
20	16QAM	100	0	22.15	22.17	22.01			
20	64QAM	1	0	21.83	21.75	21.65	23	2	
20	64QAM	1	49	21.82	21.83	21.77			
20	64QAM	1	99	21.87	21.85	21.82			
20	64QAM	50	0	21.13	21.19	21.06	22	3	
20	64QAM	50	24	21.14	21.21	21.03			
20	64QAM	50	50	21.18	21.07	21.06			
20	64QAM	100	0	21.13	21.17	21.01	Turn-up limit (dBm)	MPR (dB)	
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5	25	0	
15	QPSK	1	0	23.95	23.92	23.85			
15	QPSK	1	37	23.93	23.89	23.85	24	1	
15	QPSK	1	74	23.97	23.91	23.88			
15	QPSK	36	0	23.09	23.15	23.00			
15	QPSK	36	20	23.15	23.14	23.04	24	1	
15	QPSK	36	39	23.14	23.03	23.03			
15	QPSK	75	0	23.17	23.15	23.08			
15	16QAM	1	0	23.11	23.08	23.01	24	1	
15	16QAM	1	37	22.97	22.94	22.91			
15	16QAM	1	74	23.12	23.07	22.99			
15	16QAM	36	0	22.06	22.11	21.97	23	2	
15	16QAM	36	20	22.11	22.10	22.00			
15	16QAM	36	39	22.12	21.98	21.96			
15	16QAM	75	0	22.16	22.15	22.08	23	2	
15	64QAM	1	0	21.77	21.72	21.65			
15	64QAM	1	37	21.83	21.81	21.74			
15	64QAM	1	74	21.84	21.73	21.78	22	3	
15	64QAM	36	0	21.13	21.16	21.02			
15	64QAM	36	20	21.15	21.13	21.06			
15	64QAM	36	39	21.16	21.05	21.05	22	3	
15	64QAM	36	75	21.18	21.15	21.06			
15	64QAM	75	0	21.18	21.15	21.06			
Channel				37800	38000	38200	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2570	2595	2615			
10	QPSK	1	0	23.94	23.88	23.83	25	0	
10	QPSK	1	25	23.84	23.81	23.82			
10	QPSK	1	49	23.95	23.86	23.82			
10	QPSK	25	0	23.02	23.15	23.04	24	1	
10	QPSK	25	12	23.14	23.09	23.04			
10	QPSK	25	25	23.05	23.01	23.13			
10	QPSK	50	0	23.08	23.06	23.08	24	1	
10	16QAM	1	0	23.04	23.18	23.05			
10	16QAM	1	25	23.08	23.14	23.06			
10	16QAM	1	49	23.09	23.06	23.09	23	2	
10	16QAM	25	0	22.04	22.10	21.88			
10	16QAM	25	12	22.05	22.10	21.97			
10	16QAM	25	25	22.07	21.98	21.95	23	2	
10	16QAM	50	0	22.13	22.14	21.98			
10	64QAM	1	0	21.71	21.66	21.58			
10	64QAM	1	25	21.77	21.73	21.74	23	2	
10	64QAM	1	49	21.81	21.67	21.78			
10	64QAM	25	0	21.04	21.09	20.94			
10	64QAM	25	12	21.05	21.13	21.06	22	3	
10	64QAM	25	25	21.11	21.05	20.98			
10	64QAM	50	0	21.13	21.14	21.03			
Channel				37775	38000	38225	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.93	23.92	23.83	25	0	
5	QPSK	1	12	23.91	23.82	23.85			
5	QPSK	1	24	23.95	23.81	23.83			
5	QPSK	12	0	23.03	23.11	23.00	24	1	
5	QPSK	12	7	23.05	23.04	23.00			
5	QPSK	12	13	23.07	23.03	22.97			
5	QPSK	25	0	23.16	23.06	23.00	24	1	
5	16QAM	1	0	23.03	22.99	22.96			
5	16QAM	1	12	22.87	22.85	22.83			
5	16QAM	1	24	23.11	23.07	22.97	23	2	
5	16QAM	12	0	22.06	22.10	21.94			
5	16QAM	12	7	22.01	22.10	21.95			
5	16QAM	12	13	22.07	21.98	21.95	23	2	
5	16QAM	25	0	22.07	22.15	22.04			
5	64QAM	1	0	21.71	21.66	21.56			
5	64QAM	1	12	21.81	21.80	21.69	23	2	
5	64QAM	1	24	21.83	21.85	21.77			
5	64QAM	12	0	21.13	21.09	20.95			
5	64QAM	12	7	21.11	21.11	20.98	22	3	
5	64QAM	12	13	21.08	21.04	20.98			
5	64QAM	25	0	21.15	21.05	20.96			



Band 41											
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				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	23.98	23.95	23.99	23.86	23.82			
20	QPSK	1	49	23.97	23.96	23.96	23.85	23.69	25	0	
20	QPSK	1	99	23.96	23.96	23.96	23.88	23.72			
20	QPSK	50	0	23.12	23.04	23.19	23.01	22.90		1	
20	QPSK	50	24	23.11	23.14	23.06	22.98	22.87			
20	QPSK	50	50	23.04	23.11	23.11	22.98	22.82			
20	QPSK	100	0	23.19	23.14	23.17	22.98	22.87			
20	16QAM	1	0	23.14	23.09	23.15	23.01	22.97		1	
20	16QAM	1	49	23.11	23.03	23.05	22.92	22.79			
20	16QAM	1	99	23.15	23.01	23.10	22.96	22.82			
20	16QAM	50	0	22.17	22.05	22.10	21.97	21.92			
20	16QAM	50	24	22.19	22.14	22.09	22.02	21.89		2	
20	16QAM	50	50	22.20	22.13	22.13	22.00	21.87			
20	16QAM	100	0	22.20	22.14	22.06	22.02	21.88			
20	64QAM	1	0	21.92	21.75	21.81	21.66	21.69			
20	64QAM	1	49	21.83	21.74	21.79	21.70	21.54		2	
20	64QAM	1	99	21.89	21.77	21.83	21.67	21.54			
20	64QAM	50	0	21.17	21.06	21.09	20.94	20.94			
20	64QAM	50	24	21.23	21.17	21.09	21.03	20.90			
20	64QAM	50	50	21.17	21.13	21.00	20.87	20.87		3	
20	64QAM	100	0	21.22	21.14	21.08	21.02	20.90			
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	23.94	23.95	23.96	23.81	23.73	25	0	
15	QPSK	1	37	23.92	23.96	23.93	23.78	23.64			
15	QPSK	1	74	23.93	23.92	23.95	23.84	23.75		1	
15	QPSK	36	0	23.13	23.03	23.06	22.90	22.86			
15	QPSK	36	20	23.19	23.10	23.02	22.98	22.81			
15	QPSK	36	39	23.14	23.09	23.07	22.84	22.80			
15	QPSK	75	0	23.17	23.09	23.03	22.96	22.82			
15	16QAM	1	0	23.14	23.06	23.09	22.96	22.89			
15	16QAM	1	37	23.01	22.95	22.94	22.91	22.74		1	
15	16QAM	1	74	23.16	23.15	23.14	23.01	22.91			
15	16QAM	36	0	22.13	22.02	22.00	21.89	21.82		2	
15	16QAM	36	20	22.13	22.07	21.97	21.93	21.80			
15	16QAM	36	39	22.11	22.04	22.05	21.91	21.78			
15	16QAM	75	0	22.19	22.13	22.03	21.99	21.88			
15	64QAM	1	0	21.92	21.74	21.77	21.63	21.62		2	
15	64QAM	1	37	21.88	21.77	21.79	21.66	21.52			
15	64QAM	1	74	21.89	21.88	21.89	21.75	21.62			
15	64QAM	36	0	21.15	21.05	21.06	20.93	20.87			
15	64QAM	36	20	21.16	21.11	21.04	20.99	20.85		3	
15	64QAM	36	39	21.16	21.12	21.12	20.96	20.84			
15	64QAM	75	0	21.19	21.13	21.06	20.98	20.85	Tune-up limit (dBm)	MPR (dB)	
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	23.96	23.92	23.96	23.72	23.69	25	0	
10	QPSK	1	25	23.91	23.96	23.90	23.77	23.64			
10	QPSK	1	49	23.90	23.89	23.86	23.83	23.65		1	
10	QPSK	25	0	23.11	22.99	22.99	22.80	22.85			
10	QPSK	25	12	23.12	23.08	22.92	22.91	22.72			
10	QPSK	25	25	23.13	23.02	23.07	22.86	22.77			
10	QPSK	50	0	23.17	23.03	22.96	22.90	22.72			
10	16QAM	1	0	23.11	23.03	23.08	22.92	22.86			
10	16QAM	1	25	22.96	22.87	22.84	22.86	22.69		1	
10	16QAM	1	49	23.10	23.11	23.13	22.98	22.87			
10	16QAM	25	0	22.04	21.97	21.95	21.84	21.81		2	
10	16QAM	25	12	22.04	21.99	21.92	21.90	21.77			
10	16QAM	25	25	22.08	22.01	21.95	21.81	21.75			
10	16QAM	50	0	22.12	22.07	21.96	21.93	21.85			
10	64QAM	1	0	21.91	21.69	21.71	21.60	21.56		2	
10	64QAM	1	25	21.87	21.67	21.73	21.65	21.51			
10	64QAM	1	49	21.85	21.78	21.84	21.69	21.53			
10	64QAM	25	0	21.10	20.98	21.01	20.92	20.86			
10	64QAM	25	12	21.12	21.01	21.01	20.86	20.83		3	
10	64QAM	25	25	21.07	21.10	21.04	20.86	20.84			
10	64QAM	50	0	21.19	21.06	21.02	20.89	20.83	Tune-up limit (dBm)	MPR (dB)	
Channel				39675	40148	40620	41093	41555			
Frequency (MHz)				2498.5	25456	2593	2640.5	2687.5			
5	QPSK	1	0	23.91	23.85	23.95	23.79	23.65	25	0	
5	QPSK	1	12	23.87	23.89	23.84	23.76	23.58			
5	QPSK	1	24	23.89	23.86	23.87	23.81	23.72			
5	QPSK	12	0	23.07	22.98	23.04	22.84	22.83			
5	QPSK	12	7	23.10	23.06	23.02	22.97	22.72		1	
5	QPSK	12	13	23.11	23.04	22.98	22.91	22.79			
5	QPSK	25	0	23.14	23.01	22.98	22.90	22.79			
5	16QAM	1	0	23.07	23.01	23.09	22.95	22.79			
5	16QAM	1	12	23.01	22.88	22.94	22.86	22.64		1	
5	16QAM	1	24	23.13	23.14	23.05	22.99	22.81			
5	16QAM	12	0	22.12	21.99	21.93	21.84	21.74		2	
5	16QAM	12	7	22.09	22.05	21.98	21.91	21.70			
5	16QAM	12	13	22.05	22.02	21.97	21.86	21.68			
5	16QAM	25	0	22.11	22.03	22.01	21.97	21.84			
5	64QAM	1	0	21.82	21.66	21.75	21.61	21.58		2	
5	64QAM	1	12	21.88	21.67	21.70	21.64	21.48			
5	64QAM	1	24	21.81	21.94	21.89	21.70	21.53			
5	64QAM	12	0	21.05	20.99	21.00	20.84	20.79			
5	64QAM	12	7	21.12	21.06	21.00	20.94	20.81		3	
5	64QAM	12	13	21.07	21.08	21.12	20.88	20.83			
5	64QAM	25	0	21.09	21.05	21.02	20.91	20.83			



Band 38									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	24	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.63	22.58	22.65			
20	QPSK	1	49	22.58	22.51	22.60	23	1	
20	QPSK	1	99	22.47	22.43	22.51			
20	QPSK	50	0	21.72	21.81	21.82			
20	QPSK	50	24	21.72	21.65	21.64	23	1	
20	QPSK	50	50	21.59	21.58	21.52			
20	QPSK	100	0	21.74	21.68	21.72			
20	16QAM	1	0	21.75	21.80	21.73	23	1	
20	16QAM	1	49	21.59	21.63	21.66			
20	16QAM	1	99	21.64	21.57	21.62			
20	16QAM	50	0	20.78	20.82	20.80	22	2	
20	16QAM	50	24	20.75	20.80	20.72			
20	16QAM	50	50	20.59	20.54	20.62			
20	16QAM	100	0	20.79	20.76	20.74	22	2	
20	64QAM	1	0	20.28	20.35	20.28			
20	64QAM	1	49	20.29	20.26	20.27			
20	64QAM	1	99	20.20	20.24	20.26	21	3	
20	64QAM	50	0	19.84	19.82	19.83			
20	64QAM	50	24	19.74	19.79	19.78			
20	64QAM	50	50	19.59	19.59	19.55	21	3	
20	64QAM	100	0	19.77	19.76	19.77			
Channel				37825	38000	38175	24	0	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.55	22.52	22.53			
15	QPSK	1	37	22.54	22.50	22.51	23	1	
15	QPSK	1	74	22.37	22.44	22.38			
15	QPSK	36	0	21.68	21.80	21.72			
15	QPSK	36	20	21.66	21.58	21.64	22	2	
15	QPSK	36	39	21.59	21.51	21.46			
15	QPSK	75	0	21.73	21.72	21.64			
15	16QAM	1	0	21.74	21.71	21.72	23	1	
15	16QAM	1	37	21.65	21.64	21.55			
15	16QAM	1	74	21.56	21.62	21.55			
15	16QAM	36	0	20.72	20.79	20.74	22	2	
15	16QAM	36	20	20.71	20.74	20.73			
15	16QAM	36	39	20.56	20.55	20.50			
15	16QAM	75	0	20.75	20.69	20.67	22	2	
15	64QAM	1	0	20.31	20.29	20.26			
15	64QAM	1	37	20.16	20.13	20.17			
15	64QAM	1	74	20.25	20.11	20.26	21	3	
15	64QAM	36	0	19.70	19.79	19.70			
15	64QAM	36	20	19.74	19.78	19.75			
15	64QAM	36	39	19.50	19.57	19.61	21	3	
15	64QAM	75	0	19.68	19.65	19.70			
Channel				37800	38000	38200	24	0	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.59	22.51	22.50			
10	QPSK	1	25	22.57	22.48	22.45	23	1	
10	QPSK	1	49	22.42	22.38	22.36			
10	QPSK	25	0	21.71	21.80	21.73			
10	QPSK	25	12	21.66	21.60	21.63	23	1	
10	QPSK	25	25	21.51	21.45	21.54			
10	QPSK	50	0	21.73	21.62	21.59			
10	16QAM	1	0	21.70	21.69	21.78	23	1	
10	16QAM	1	25	21.64	21.57	21.58			
10	16QAM	1	49	21.56	21.53	21.55			
10	16QAM	25	0	20.71	20.75	20.70	22	2	
10	16QAM	25	12	20.77	20.71	20.73			
10	16QAM	25	25	20.51	20.55	20.51			
10	16QAM	50	0	20.65	20.65	20.64	22	2	
10	64QAM	1	0	20.25	20.30	20.26			
10	64QAM	1	25	20.15	20.16	20.23			
10	64QAM	1	49	20.17	20.16	20.24	21	3	
10	64QAM	25	0	19.67	19.80	19.77			
10	64QAM	25	12	19.75	19.77	19.72			
10	64QAM	25	25	19.45	19.55	19.59	21	3	
10	64QAM	50	0	19.65	19.65	19.61			
Channel				37775	38000	38225	24	0	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.55	22.53	22.60			
5	QPSK	1	12	22.50	22.48	22.41	23	1	
5	QPSK	1	24	22.45	22.35	22.42			
5	QPSK	12	0	21.73	21.81	21.73			
5	QPSK	12	7	21.68	21.58	21.72	23	1	
5	QPSK	12	13	21.58	21.49	21.44			
5	QPSK	25	0	21.73	21.67	21.57			
5	16QAM	1	0	21.72	21.73	21.69	23	1	
5	16QAM	1	12	21.57	21.54	21.60			
5	16QAM	1	24	21.62	21.59	21.59			
5	16QAM	12	0	20.75	20.81	20.74	22	2	
5	16QAM	12	7	20.71	20.71	20.72			
5	16QAM	12	13	20.54	20.51	20.48			
5	16QAM	25	0	20.69	20.72	20.62	22	2	
5	64QAM	1	0	20.26	20.26	20.33			
5	64QAM	1	12	20.18	20.21	20.24			
5	64QAM	1	24	20.21	20.19	20.28	21	3	
5	64QAM	12	0	19.73	19.80	19.75			
5	64QAM	12	7	19.76	19.68	19.70			
5	64QAM	12	13	19.62	19.63	19.62	21	3	
5	64QAM	25	0	19.70	19.65	19.69			



Band 41											
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				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	22.76	22.73	22.61	22.66	22.37	24	0	
20	QPSK	1	49	22.47	22.44	22.50	22.49	22.45			
20	QPSK	1	99	22.44	22.45	22.39	22.38	22.47	23	1	
20	QPSK	50	0	21.61	21.60	21.63	21.58	21.57			
20	QPSK	50	24	21.53	21.58	21.57	21.57	21.61	23	1	
20	QPSK	50	50	21.56	21.54	21.52	21.58	21.53			
20	QPSK	100	0	21.54	21.64	21.56	21.64	21.61	23	1	
20	16QAM	1	0	21.75	21.69	21.74	21.73	21.75			
20	16QAM	1	49	21.64	21.58	21.56	21.54	21.55	22	2	
20	16QAM	1	99	21.56	21.60	21.60	21.63	21.55			
20	16QAM	50	0	20.58	20.58	20.63	20.62	20.66	22	2	
20	16QAM	50	24	20.61	20.62	20.65	20.63	20.56			
20	16QAM	50	50	20.62	20.65	20.64	20.69	20.63	22	2	
20	16QAM	100	0	20.58	20.58	20.62	20.61	20.59			
20	64QAM	1	0	20.26	20.23	20.26	20.27	20.26	22	2	
20	64QAM	1	49	20.21	20.23	20.22	20.24	20.19			
20	64QAM	1	99	20.13	20.15	20.10	20.12	20.12	21	3	
20	64QAM	50	0	19.71	19.63	19.62	19.68	19.61			
20	64QAM	50	24	19.62	19.65	19.57	19.56	19.57	21	3	
20	64QAM	50	50	19.64	19.66	19.61	19.63	19.61			
20	64QAM	100	0	19.60	19.62	19.56	19.64	19.64			
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	22.68	22.73	22.57	22.61	22.37	24	0	
15	QPSK	1	37	22.45	22.42	22.50	22.39	22.36			
15	QPSK	1	74	22.35	22.43	22.36	22.33	22.38	23	1	
15	QPSK	36	0	21.55	21.58	21.53	21.50	21.53			
15	QPSK	36	20	21.44	21.52	21.50	21.50	21.61	23	1	
15	QPSK	36	39	21.46	21.53	21.52	21.55	21.49			
15	QPSK	75	0	21.49	21.63	21.51	21.64	21.59	23	1	
15	16QAM	1	0	21.66	21.67	21.64	21.68	21.73			
15	16QAM	1	37	21.62	21.49	21.50	21.54	21.54	23	1	
15	16QAM	1	74	21.47	21.52	21.52	21.63	21.51			
15	16QAM	36	0	20.49	20.55	20.63	20.62	20.56	22	2	
15	16QAM	36	20	20.53	20.61	20.57	20.55	20.47			
15	16QAM	36	39	20.61	20.59	20.54	20.67	20.59	22	2	
15	16QAM	75	0	20.54	20.57	20.59	20.51	20.55			
15	64QAM	1	0	20.18	20.14	20.20	20.19	20.16	22	2	
15	64QAM	1	37	20.15	20.18	20.16	20.21	20.12			
15	64QAM	1	74	20.08	20.14	20.07	20.02	20.09	21	3	
15	64QAM	36	0	19.70	19.58	19.61	19.66	19.52			
15	64QAM	36	20	19.58	19.56	19.55	19.51	19.52	21	3	
15	64QAM	36	39	19.64	19.64	19.51	19.61	19.53			
15	64QAM	75	0	19.55	19.57	19.53	19.60	19.62			
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	22.74	22.71	22.61	22.62	22.36	24	0	
10	QPSK	1	25	22.45	22.40	22.42	22.43	22.39			
10	QPSK	1	49	22.34	22.40	22.34	22.37	22.45	23	1	
10	QPSK	25	0	21.52	21.54	21.63	21.53	21.55			
10	QPSK	25	12	21.51	21.48	21.48	21.55	21.58	23	1	
10	QPSK	25	25	21.47	21.48	21.48	21.55	21.49			
10	QPSK	50	0	21.49	21.64	21.52	21.64	21.51	23	1	
10	16QAM	1	0	21.72	21.59	21.65	21.70	21.68			
10	16QAM	1	25	21.54	21.55	21.53	21.51	21.46	23	1	
10	16QAM	1	49	21.52	21.51	21.54	21.58	21.45			
10	16QAM	25	0	20.53	20.53	20.58	20.53	20.56	22	2	
10	16QAM	25	12	20.61	20.55	20.60	20.61	20.53			
10	16QAM	25	25	20.59	20.64	20.56	20.68	20.62	22	2	
10	16QAM	50	0	20.48	20.50	20.52	20.60	20.58			
10	64QAM	1	0	20.17	20.22	20.17	20.20	20.23	22	2	
10	64QAM	1	25	20.16	20.20	20.20	20.19	20.19			
10	64QAM	1	49	20.11	20.14	20.09	20.11	20.06	21	3	
10	64QAM	25	0	19.66	19.57	19.55	19.59	19.51			
10	64QAM	25	12	19.55	19.64	19.57	19.50	19.50	21	3	
10	64QAM	25	25	19.63	19.57	19.52	19.53	19.56			
10	64QAM	50	0	19.55	19.59	19.51	19.58	19.55			
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2498.5	25458	2593	2640.5	2687.5			
5	QPSK	1	0	22.69	22.67	22.55	22.56	22.33	24	0	
5	QPSK	1	12	22.44	22.42	22.47	22.46	22.36			
5	QPSK	1	24	22.40	22.45	22.31	22.32	22.44	23	1	
5	QPSK	12	0	21.55	21.57	21.57	21.52	21.54			
5	QPSK	12	7	21.51	21.57	21.50	21.49	21.58	23	1	
5	QPSK	12	13	21.50	21.49	21.51	21.51	21.46			
5	QPSK	25	0	21.49	21.63	21.51	21.57	21.52	23	1	
5	16QAM	1	0	21.69	21.67	21.64	21.66	21.72			
5	16QAM	1	12	21.54	21.49	21.52	21.48	21.52	22	2	
5	16QAM	1	24	21.56	21.57	21.51	21.61	21.47			
5	16QAM	12	0	20.53	20.53	20.59	20.57	20.61	22	2	
5	16QAM	12	7	20.60	20.57	20.65	20.63	20.47			
5	16QAM	12	13	20.54	20.58	20.62	20.62	20.61	22	2	
5	16QAM	25	0	20.54	20.52	20.61	20.55	20.49			
5	64QAM	1	0	20.25	20.19	20.18	20.21	20.26	22	2	
5	64QAM	1	12	20.13	20.21	20.15	20.18	20.17			
5	64QAM	1	24	20.12	20.10	20.07	20.10	20.02	21	3	
5	64QAM	12	0	19.70	19.54	19.59	19.61	19.57			
5	64QAM	12	7	19.62	19.56	19.50	19.47	19.52	21	3	
5	64QAM	12	13	19.54	19.65	19.54	19.58	19.61			
5	64QAM	25	0	19.58	19.59	19.56	19.55	19.60			



Band 38									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.23	22.18	22.25	23.5	0	
20	QPSK	1	49	22.18	22.11	22.20			
20	QPSK	1	99	22.07	22.03	22.11			
20	QPSK	50	0	21.32	21.41	21.42	22.5	1	
20	QPSK	50	24	21.32	21.25	21.24			
20	QPSK	50	50	21.19	21.18	21.12			
20	QPSK	100	0	21.34	21.28	21.32	22.5	1	
20	16QAM	1	0	21.35	21.40	21.33			
20	16QAM	1	49	21.19	21.23	21.26			
20	16QAM	1	99	21.24	21.17	21.22	21.5	2	
20	16QAM	50	0	20.38	20.42	20.40			
20	16QAM	50	24	20.35	20.40	20.32			
20	16QAM	50	50	20.19	20.14	20.22	21.5	2	
20	16QAM	100	0	20.39	20.36	20.34			
20	64QAM	1	0	19.88	19.85	19.86			
20	64QAM	1	49	19.89	19.86	19.87	21.5	2	
20	64QAM	1	99	19.80	19.84	19.85			
20	64QAM	50	0	19.44	19.42	19.43			
20	64QAM	50	24	19.34	19.39	19.38	20.5	3	
20	64QAM	50	50	19.19	19.19	19.15			
20	64QAM	100	0	19.37	19.36	19.37			
Channel				37825 <th>38000<th>38175</th><th rowspan="2">Turn-up limit (dBm)</th><th rowspan="2">MPR (dB)</th><th rowspan="2"></th></th>	38000 <th>38175</th> <th rowspan="2">Turn-up limit (dBm)</th> <th rowspan="2">MPR (dB)</th> <th rowspan="2"></th>	38175	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5 <th>2595<th>2612.5</th></th>	2595 <th>2612.5</th>	2612.5			
15	QPSK	1	0	22.15	22.18	22.23	23.5	0	
15	QPSK	1	37	22.14	22.05	22.12			
15	QPSK	1	74	22.01	22.03	22.09			
15	QPSK	36	0	21.30	21.36	21.38	22.5	1	
15	QPSK	36	20	21.27	21.25	21.17			
15	QPSK	36	39	21.17	21.14	21.05			
15	QPSK	75	0	21.33	21.19	21.28	22.5	1	
15	16QAM	1	0	21.26	21.38	21.23			
15	16QAM	1	37	21.10	21.14	21.18			
15	16QAM	1	74	21.19	21.08	21.15	21.5	2	
15	16QAM	36	0	20.30	20.39	20.37			
15	16QAM	36	20	20.25	20.37	20.22			
15	16QAM	36	39	20.12	20.10	20.20	21.5	2	
15	16QAM	75	0	20.34	20.33	20.28			
15	64QAM	1	0	19.81	19.90	19.81			
15	64QAM	1	37	19.83	19.80	19.79	21.5	2	
15	64QAM	1	74	19.75	19.80	19.78			
15	64QAM	36	0	19.41	19.41	19.43			
15	64QAM	36	20	19.33	19.39	19.31	20.5	3	
15	64QAM	36	39	19.17	19.09	19.08			
15	64QAM	75	0	19.32	19.31	19.28			
Channel				37800	38000	38200	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2570	2595 <td>2615</td>	2615			
10	QPSK	1	0	22.16	22.13	22.24	23.5	0	
10	QPSK	1	25	22.09	22.02	22.20			
10	QPSK	1	49	22.01	21.99	22.08			
10	QPSK	25	0	21.31	21.38	21.39	22.5	1	
10	QPSK	25	12	21.31	21.16	21.15			
10	QPSK	25	25	21.19	21.12	21.07			
10	QPSK	50	0	21.27	21.25	21.27	22.5	1	
10	16QAM	1	0	21.26	21.40	21.27			
10	16QAM	1	25	21.17	21.22	21.22			
10	16QAM	1	49	21.23	21.13	21.17	21.5	2	
10	16QAM	25	0	20.38	20.32	20.33			
10	16QAM	25	12	20.34	20.37	20.27			
10	16QAM	25	25	20.15	20.11	20.16	21.5	2	
10	16QAM	50	0	20.30	20.26	20.30			
10	64QAM	1	0	19.81	19.88	19.80			
10	64QAM	1	25	19.85	19.80	19.84	21.5	2	
10	64QAM	1	49	19.79	19.80	19.77			
10	64QAM	25	0	19.43	19.38	19.41			
10	64QAM	25	12	19.32	19.38	19.37	20.5	3	
10	64QAM	25	25	19.11	19.18	19.05			
10	64QAM	50	0	19.36	19.29	19.27			
Channel				37775	38000	38225	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595 <td>2617.5</td>	2617.5			
5	QPSK	1	0	22.15	22.11	22.17	23.5	0	
5	QPSK	1	12	22.14	22.05	22.14			
5	QPSK	1	24	22.06	21.95	22.08			
5	QPSK	12	0	21.24	21.36	21.34	22.5	1	
5	QPSK	12	7	21.23	21.20	21.14			
5	QPSK	12	13	21.12	21.13	21.11			
5	QPSK	25	0	21.29	21.23	21.25	22.5	1	
5	16QAM	1	0	21.29	21.40	21.29			
5	16QAM	1	12	21.19	21.23	21.17			
5	16QAM	1	24	21.23	21.08	21.21	21.5	2	
5	16QAM	12	0	20.30	20.37	20.38			
5	16QAM	12	7	20.30	20.37	20.32			
5	16QAM	12	13	20.14	20.09	20.20	21.5	2	
5	16QAM	25	0	20.34	20.36	20.33			
5	64QAM	1	0	19.88	19.86	19.88			
5	64QAM	1	12	19.81	19.79	19.86	21.5	2	
5	64QAM	1	24	19.74	19.77	19.77			
5	64QAM	12	0	19.34	19.40	19.40			
5	64QAM	12	7	19.32	19.39	19.33	20.5	3	
5	64QAM	12	13	19.12	19.10	19.11			
5	64QAM	25	0	19.36	19.28	19.37			



Band 41												
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				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	22.56	22.53	22.41	22.46	22.27	23.5	0		
20	QPSK	1	49	22.27	22.24	22.30	22.29	22.25				
20	QPSK	1	99	22.24	22.25	22.19	22.18	22.17				
20	QPSK	50	0	21.41	21.40	21.40	21.38	21.41	22.5	1		
20	QPSK	50	24	21.33	21.38	21.37	21.37	21.37				
20	QPSK	50	50	21.36	21.34	21.32	21.38	21.33				
20	QPSK	100	0	21.34	21.44	21.36	21.44	21.41	22.5	1		
20	16QAM	1	0	21.55	21.49	21.54	21.53	21.55				
20	16QAM	1	49	21.44	21.38	21.36	21.34	21.35				
20	16QAM	1	99	21.36	21.40	21.40	21.43	21.35	21.5	2		
20	16QAM	50	0	20.38	20.38	20.43	20.42	20.46				
20	16QAM	50	24	20.41	20.42	20.45	20.43	20.36				
20	16QAM	50	50	20.42	20.45	20.44	20.49	20.43	21.5	2		
20	16QAM	100	0	20.38	20.38	20.42	20.41	20.39				
20	64QAM	1	0	20.06	20.03	20.06	20.07	20.06				
20	64QAM	1	49	20.01	20.03	20.02	20.04	19.99	21.5	2		
20	64QAM	1	99	19.93	19.95	19.90	19.92	19.92				
20	64QAM	50	0	19.51	19.43	19.42	19.48	19.41				
20	64QAM	50	24	19.42	19.45	19.37	19.36	19.37	20.5	3		
20	64QAM	50	50	19.44	19.46	19.41	19.43	19.41				
20	64QAM	100	0	19.40	19.42	19.36	19.44	19.44				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	22.48	22.44	22.36	22.43	22.07	23.5	0		
15	QPSK	1	37	22.19	22.15	22.25	22.26	22.20				
15	QPSK	1	74	22.23	22.25	22.17	22.14	22.21				
15	QPSK	36	0	21.35	21.33	21.39	21.35	21.36	22.5	1		
15	QPSK	36	20	21.24	21.29	21.31	21.28	21.37				
15	QPSK	36	39	21.33	21.30	21.25	21.29	21.27				
15	QPSK	75	0	21.30	21.34	21.26	21.36	21.37	22.5	1		
15	16QAM	1	0	21.54	21.47	21.54	21.48	21.52				
15	16QAM	1	37	21.38	21.31	21.29	21.24	21.28				
15	16QAM	1	74	21.29	21.35	21.36	21.37	21.32	21.5	2		
15	16QAM	36	0	20.34	20.37	20.37	20.36	20.43				
15	16QAM	36	20	20.36	20.37	20.44	20.38	20.29				
15	16QAM	36	39	20.32	20.39	20.34	20.40	20.43	21.5	2		
15	16QAM	75	0	20.34	20.35	20.42	20.34	20.29				
15	64QAM	1	0	20.06	20.02	20.02	20.04	20.06				
15	64QAM	1	37	20.00	20.00	20.02	19.97	19.93	21.5	2		
15	64QAM	1	74	19.85	19.95	19.84	19.90	19.92				
15	64QAM	36	0	19.45	19.38	19.35	19.39	19.39				
15	64QAM	36	20	19.40	19.41	19.27	19.30	19.32	20.5	3		
15	64QAM	36	39	19.40	19.40	19.36	19.37	19.41				
15	64QAM	75	0	19.30	19.33	19.32	19.38	19.34				
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	22.53	22.48	22.36	22.41	22.16	23.5	0		
10	QPSK	1	25	22.23	22.18	22.24	22.26	22.22				
10	QPSK	1	49	22.24	22.18	22.17	22.12	22.22				
10	QPSK	25	0	21.32	21.39	21.39	21.28	21.35	22.5	1		
10	QPSK	25	12	21.23	21.38	21.27	21.31	21.33				
10	QPSK	25	25	21.30	21.26	21.30	21.32	21.31				
10	QPSK	50	0	21.28	21.36	21.27	21.34	21.38	22.5	1		
10	16QAM	1	0	21.46	21.44	21.54	21.46	21.47				
10	16QAM	1	25	21.40	21.34	21.28	21.28	21.31				
10	16QAM	1	49	21.30	21.34	21.33	21.38	21.27	21.5	2		
10	16QAM	25	0	20.31	20.37	20.40	20.39	20.40				
10	16QAM	25	12	20.41	20.40	20.44	20.35	20.32				
10	16QAM	25	25	20.40	20.40	20.36	20.46	20.43	21.5	2		
10	16QAM	50	0	20.34	20.35	20.42	20.36	20.33				
10	64QAM	1	0	19.99	19.93	20.00	19.97	20.05				
10	64QAM	1	25	19.97	19.95	20.02	20.01	19.95	21.5	2		
10	64QAM	1	49	19.91	19.85	19.90	19.84	19.82				
10	64QAM	25	0	19.46	19.34	19.32	19.48	19.32				
10	64QAM	25	12	19.37	19.40	19.34	19.32	19.34	20.5	3		
10	64QAM	25	25	19.44	19.41	19.39	19.35	19.41				
10	64QAM	50	0	19.36	19.38	19.32	19.43	19.44				
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2498.5	25458	2593	2640.5	2687.5				
5	QPSK	1	0	22.48	22.44	22.35	22.41	22.11	23.5	0		
5	QPSK	1	12	22.22	22.21	22.24	22.29	22.20				
5	QPSK	1	24	22.20	22.23	22.12	22.17	22.21				
5	QPSK	12	0	21.38	21.36	21.38	21.31	21.36	22.5	1		
5	QPSK	12	7	21.27	21.31	21.32	21.30	21.33				
5	QPSK	12	13	21.31	21.31	21.30	21.28	21.23				
5	QPSK	25	0	21.32	21.44	21.31	21.44	21.40	21.5	2		
5	16QAM	1	0	21.46	21.39	21.50	21.52	21.45				
5	16QAM	1	12	21.40	21.32	21.32	21.28	21.31				
5	16QAM	1	24	21.30	21.39	21.31	21.41	21.29	21.5	2		
5	16QAM	12	0	20.34	20.36	20.33	20.40	20.36				
5	16QAM	12	7	20.41	20.33	20.38	20.39	20.33				
5	16QAM	12	13	20.42	20.38	20.36	20.48	20.42	21.5	2		
5	16QAM	25	0	20.28	20.35	20.35	20.41	20.35				
5	64QAM	1	0	19.99	20.01	20.06	20.00	20.06				
5	64QAM	1	12	19.99	19.94	19.96	20.01	19.94	21.5	2		
5	64QAM	1	24	19.94	19.93	19.90	19.86	19.87				
5	64QAM	12	0	19.51	19.39	19.42	19.46	19.40				
5	64QAM	12	7	19.38	19.44	19.30	19.26	19.36	20.5	3		
5	64QAM	12	13	19.41	19.43	19.32	19.36	19.35				
5	64QAM	25	0	19.31	19.32	19.31	19.38	19.38				



Band 38									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	19.5	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	18.44	18.42	18.40			
20	QPSK	1	49	18.41	18.36	18.28	19.5	0	
20	QPSK	1	99	18.42	18.34	18.26			
20	QPSK	50	0	18.36	18.31	18.10			
20	QPSK	50	24	18.29	18.29	18.10	19.5	0	
20	QPSK	50	50	18.33	18.17	18.16			
20	QPSK	100	0	18.28	18.30	18.10			
20	16QAM	1	0	18.26	18.37	18.31	19.5	0	
20	16QAM	1	49	18.31	18.34	18.33			
20	16QAM	1	99	18.28	18.36	18.30			
20	16QAM	50	0	18.31	18.37	18.16	19.5	0	
20	16QAM	50	24	18.30	18.34	18.14			
20	16QAM	50	50	18.38	18.22	18.20			
20	16QAM	100	0	18.26	18.31	18.13	19.5	0	
20	64QAM	1	0	18.25	18.20	18.08			
20	64QAM	1	49	18.27	18.23	18.15			
20	64QAM	1	99	18.28	18.26	18.19	19.5	0	
20	64QAM	50	0	18.30	18.35	18.18			
20	64QAM	50	24	18.32	18.36	18.15			
20	64QAM	50	50	18.34	18.23	18.21	19.5	0	
20	64QAM	100	0	18.29	18.34	18.14			
Channel				37825	38000	38175	19.5	0	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	18.39	18.43	18.37			
15	QPSK	1	37	18.35	18.30	18.24	19.5	0	
15	QPSK	1	74	18.33	18.29	18.17			
15	QPSK	36	0	18.26	18.23	18.03	19.5	0	
15	QPSK	36	20	18.24	18.23	18.00			
15	QPSK	36	39	18.28	18.07	18.13			
15	QPSK	75	0	18.19	18.21	18.04	19.5	0	
15	16QAM	1	0	18.22	18.33	18.23			
15	16QAM	1	37	18.27	18.29	18.25			
15	16QAM	1	74	18.28	18.31	18.28	19.5	0	
15	16QAM	36	0	18.26	18.30	18.10			
15	16QAM	36	20	18.25	18.33	18.04			
15	16QAM	36	39	18.35	18.14	18.20	19.5	0	
15	16QAM	75	0	18.19	18.26	18.10			
15	64QAM	1	0	18.21	18.10	18.08			
15	64QAM	1	37	18.23	18.19	18.10	19.5	0	
15	64QAM	1	74	18.23	18.18	18.19			
15	64QAM	36	0	18.26	18.35	18.14			
15	64QAM	36	20	18.29	18.33	18.11	19.5	0	
15	64QAM	36	39	18.30	18.13	18.15			
15	64QAM	75	0	18.28	18.27	18.05			
Channel				37800	38000	38200	19.5	0	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	18.40	18.40	18.34			
10	QPSK	1	25	18.31	18.26	18.15	19.5	0	
10	QPSK	1	49	18.42	18.33	18.19			
10	QPSK	25	0	18.21	18.24	18.09	19.5	0	
10	QPSK	25	12	18.20	18.29	18.04			
10	QPSK	25	25	18.29	18.12	18.16			
10	QPSK	50	0	18.18	18.27	18.05	19.5	0	
10	16QAM	1	0	18.26	18.35	18.25			
10	16QAM	1	25	18.24	18.33	18.30			
10	16QAM	1	49	18.25	18.33	18.20	19.5	0	
10	16QAM	25	0	18.27	18.31	18.08			
10	16QAM	25	12	18.24	18.27	18.13			
10	16QAM	25	25	18.37	18.22	18.19	19.5	0	
10	16QAM	50	0	18.21	18.24	18.06			
10	64QAM	1	0	18.22	18.11	18.04			
10	64QAM	1	25	18.19	18.17	18.13	19.5	0	
10	64QAM	1	49	18.23	18.24	18.10			
10	64QAM	25	0	18.26	18.30	18.08			
10	64QAM	25	12	18.22	18.36	18.07	19.5	0	
10	64QAM	25	25	18.25	18.21	18.11			
10	64QAM	50	0	18.23	18.25	18.13			
Channel				37775	38000	38225	19.5	0	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	18.41	18.38	18.32			
5	QPSK	1	12	18.40	18.28	18.25	19.5	0	
5	QPSK	1	24	18.35	18.28	18.24			
5	QPSK	12	0	18.18	18.22	18.08	19.5	0	
5	QPSK	12	7	18.25	18.28	18.07			
5	QPSK	12	13	18.32	18.08	18.08			
5	QPSK	25	0	18.20	18.29	18.08	19.5	0	
5	16QAM	1	0	18.24	18.31	18.26			
5	16QAM	1	12	18.25	18.27	18.31			
5	16QAM	1	24	18.28	18.28	18.28	19.5	0	
5	16QAM	12	0	18.23	18.36	18.16			
5	16QAM	12	7	18.25	18.32	18.13			
5	16QAM	12	13	18.28	18.17	18.11	19.5	0	
5	16QAM	25	0	18.28	18.30	18.05			
5	64QAM	1	0	18.25	18.12	18.05			
5	64QAM	1	12	18.22	18.16	18.11	19.5	0	
5	64QAM	1	24	18.22	18.25	18.15			
5	64QAM	12	0	18.27	18.30	18.08			
5	64QAM	12	7	18.27	18.28	18.08	19.5	0	
5	64QAM	12	13	18.34	18.17	18.11			
5	64QAM	25	0	18.20	18.25	18.08			



Band 41												
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				39750	40185	40620	41055	41490	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2500	2549.5	2593	2636.5	2680				
20	QPSK	1	0	18.45	18.27	18.34	18.29	18.20	19.5	0		
20	QPSK	1	49	18.43	18.33	18.28	18.16	18.05				
20	QPSK	1	99	18.41	18.32	18.35	18.18	18.04				
20	QPSK	50	0	18.19	18.02	17.96	17.87	17.83	19.5	0		
20	QPSK	50	24	18.18	18.12	17.98	17.97	17.83				
20	QPSK	50	50	18.15	18.09	18.03	17.93	17.79				
20	QPSK	100	0	18.23	18.10	17.97	17.95	17.82	19.5	0		
20	16QAM	1	0	18.30	18.17	18.21	18.08	18.00				
20	16QAM	1	49	18.30	18.17	18.18	17.99	17.87				
20	16QAM	1	99	18.33	18.23	18.20	18.01	17.89	19.5	0		
20	16QAM	50	0	18.25	18.06	18.03	17.89	17.87				
20	16QAM	50	24	18.25	18.15	17.99	17.99	17.85				
20	16QAM	50	50	18.25	18.14	18.05	17.95	17.78	19.5	0		
20	16QAM	100	0	18.26	18.13	18.00	17.93	17.82				
20	64QAM	1	0	18.24	17.98	18.02	17.92	17.83				
20	64QAM	1	49	18.11	18.03	17.98	17.88	17.75	19.5	0		
20	64QAM	1	99	18.10	18.05	18.01	17.87	17.78				
20	64QAM	50	0	18.10	18.06	18.01	17.91	17.86				
20	64QAM	50	24	18.26	18.17	18.03	18.00	17.86	19.5	0		
20	64QAM	50	50	18.23	18.12	18.05	17.94	17.83				
20	64QAM	100	0	18.23	18.12	17.99	17.96	17.83				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	18.43	18.20	18.26	18.28	18.19	19.5	0		
15	QPSK	1	37	18.33	18.24	18.21	18.16	17.97				
15	QPSK	1	74	18.40	18.32	18.35	18.15	18.00				
15	QPSK	36	0	18.09	17.96	17.88	17.80	17.75	19.5	0		
15	QPSK	36	20	18.16	18.02	17.98	17.88	17.77				
15	QPSK	36	39	18.11	18.00	18.00	17.87	17.77				
15	QPSK	75	0	18.18	18.03	17.91	17.91	17.74	19.5	0		
15	16QAM	1	0	18.23	18.09	18.13	18.03	17.96				
15	16QAM	1	37	18.25	18.13	18.10	17.99	17.86				
15	16QAM	1	74	18.27	18.23	18.10	17.95	17.85	19.5	0		
15	16QAM	36	0	18.20	17.98	18.00	17.86	17.85				
15	16QAM	36	20	18.18	18.06	17.99	17.94	17.81				
15	16QAM	36	39	18.20	18.04	17.97	17.85	17.69	19.5	0		
15	16QAM	75	0	18.26	18.08	17.92	17.84	17.79				
15	64QAM	1	0	18.18	17.97	18.01	17.89	17.75				
15	64QAM	1	37	18.02	18.00	17.91	17.81	17.70	19.5	0		
15	64QAM	1	74	18.07	18.00	17.92	17.85	17.68				
15	64QAM	36	0	18.03	17.99	17.93	17.87	17.78				
15	64QAM	36	20	18.18	18.15	17.93	18.00	17.83	19.5	0		
15	64QAM	36	39	18.18	18.10	18.05	17.91	17.80				
15	64QAM	75	0	18.16	18.12	17.93	17.90	17.79				
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	18.36	18.24	18.33	18.29	18.10	19.5	0		
10	QPSK	1	25	18.37	18.28	18.20	18.07	17.92				
10	QPSK	1	49	18.34	18.24	18.25	18.15	17.95				
10	QPSK	25	0	18.18	17.95	17.94	17.83	17.77	19.5	0		
10	QPSK	25	12	18.19	18.02	17.88	17.86	17.75				
10	QPSK	25	25	18.15	18.09	18.02	17.87	17.76				
10	QPSK	50	0	18.13	18.06	17.88	17.87	17.73	19.5	0		
10	16QAM	1	0	18.22	18.11	18.21	18.08	18.00				
10	16QAM	1	25	18.26	18.07	18.16	17.95	17.78				
10	16QAM	1	49	18.30	18.14	18.20	17.97	17.87	19.5	0		
10	16QAM	25	0	18.18	17.98	17.97	17.83	17.87				
10	16QAM	25	12	18.24	18.05	17.90	17.89	17.85				
10	16QAM	25	25	18.20	18.10	17.98	17.89	17.70	19.5	0		
10	16QAM	50	0	18.21	18.05	17.95	17.84	17.74				
10	64QAM	1	0	18.14	17.93	18.01	17.89	17.81				
10	64QAM	1	25	18.07	17.93	17.91	17.80	17.66	19.5	0		
10	64QAM	1	49	18.06	18.03	17.82	17.85	17.75				
10	64QAM	25	0	18.01	18.03	17.96	17.84	17.81				
10	64QAM	25	12	18.18	18.17	18.01	17.94	17.84	19.5	0		
10	64QAM	25	25	18.19	18.06	17.97	17.90	17.82				
10	64QAM	50	0	18.14	18.02	17.90	17.93	17.78				
Channel				39675	40148	40620	41093	41555	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2488.5	25458	2593	2648.5	2697.5				
5	QPSK	1	0	18.38	18.23	18.28	18.24	18.19	19.5	0		
5	QPSK	1	12	18.42	18.24	18.28	18.13	17.95				
5	QPSK	1	24	18.36	18.30	18.28	18.15	18.01				
5	QPSK	12	0	18.13	17.95	17.93	17.83	17.73	19.5	0		
5	QPSK	12	7	18.17	18.09	17.90	17.89	17.77				
5	QPSK	12	13	18.14	17.99	18.02	17.84	17.78				
5	QPSK	25	0	18.20	18.06	17.94	17.92	17.73	19.5	0		
5	16QAM	1	0	18.23	18.09	18.18	17.99	17.93				
5	16QAM	1	12	18.24	18.07	18.12	17.98	17.87				
5	16QAM	1	24	18.28	18.19	18.11	17.93	17.80	19.5	0		
5	16QAM	12	0	18.15	18.02	17.94	17.81	17.85				
5	16QAM	12	7	18.15	18.11	17.95	17.93	17.85				
5	16QAM	12	13	18.24	18.05	17.99	17.87	17.74	19.5	0		
5	16QAM	25	0	18.23	18.07	17.98	17.83	17.80				
5	64QAM	1	0	18.19	17.92	17.95	17.89	17.76				
5	64QAM	1	12	18.11	17.95	17.89	17.84	17.65	19.5	0		
5	64QAM	1	24	18.09	18.03	17.91	17.83	17.74				
5	64QAM	12	0	18.03	17.98	17.91	17.82	17.78				
5	64QAM	12	7	18.22	18.07	18.03	17.95	17.77	19.5	0		
5	64QAM	12	13	18.13	18.12	18.01	17.84	17.80				
5	64QAM	25	0	18.21	18.02	17.90	17.93	17.78				



Band 38									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	23.5	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.42	22.34	22.24	23.5	0	
20	QPSK	1	49	22.41	22.36	22.31			
20	QPSK	1	99	22.40	22.39	22.28			
20	QPSK	50	0	22.35	22.34	22.15	23.5	0	
20	QPSK	50	24	22.30	22.31	22.14			
20	QPSK	50	50	22.33	22.19	22.19			
20	QPSK	100	0	22.27	22.22	22.12	23.5	0	
20	16QAM	1	0	22.10	22.00	21.95			
20	16QAM	1	49	22.07	22.00	21.95			
20	16QAM	1	99	22.07	22.00	21.92	22.5	1	
20	16QAM	50	0	21.31	21.37	21.19			
20	16QAM	50	24	21.31	21.37	21.15			
20	16QAM	50	50	21.38	21.23	21.19	22.5	1	
20	16QAM	100	0	21.31	21.30	21.16			
20	64QAM	1	0	21.21	21.15	21.08			
20	64QAM	1	49	21.24	21.21	21.13	21.5	2	
20	64QAM	1	99	21.28	21.23	21.16			
20	64QAM	50	0	20.29	20.36	20.18			
20	64QAM	50	24	20.32	20.37	20.16	Turn-up limit (dBm)	MPR (dB)	
20	64QAM	50	50	20.37	20.23	20.22			
20	64QAM	100	0	20.31	20.34	20.15			
Channel				37825 <th>38000</th> <th>38175</th> <th rowspan="2">23.5</th> <th colspan="2" rowspan="2">0</th>	38000	38175	23.5	0	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.07	22.00	21.89	23.5	0	
15	QPSK	1	37	22.05	21.91	21.95			
15	QPSK	1	74	21.97	21.91	21.91			
15	QPSK	36	0	22.21	22.29	22.09	23.5	0	
15	QPSK	36	20	22.25	22.28	22.05			
15	QPSK	36	39	22.28	22.13	22.16			
15	QPSK	75	0	22.18	22.22	22.04	23.5	0	
15	16QAM	1	0	22.40	22.27	22.14			
15	16QAM	1	37	22.36	22.28	22.27			
15	16QAM	1	74	22.30	22.37	22.22	22.5	1	
15	16QAM	36	0	21.30	21.37	21.18			
15	16QAM	36	20	21.30	21.35	21.12			
15	16QAM	36	39	21.32	21.16	21.12	22.5	1	
15	16QAM	75	0	21.21	21.28	21.10			
15	64QAM	1	0	21.17	21.14	21.07			
15	64QAM	1	37	21.18	21.17	21.11	21.5	2	
15	64QAM	1	74	21.26	21.23	21.09			
15	64QAM	36	0	20.25	20.27	20.09			
15	64QAM	36	20	20.26	20.17	20.12	Turn-up limit (dBm)	MPR (dB)	
15	64QAM	36	39	20.36	20.22	20.19			
15	64QAM	75	0	20.28	20.29	20.06			
Channel				37800	38000	38200	23.5	0	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.08	21.97	21.86	23.5	0	
10	QPSK	1	25	21.98	21.95	21.95			
10	QPSK	1	49	22.06	21.92	21.83			
10	QPSK	25	0	22.24	22.34	22.07	23.5	0	
10	QPSK	25	12	22.21	22.27	22.06			
10	QPSK	25	25	22.26	22.13	22.15			
10	QPSK	50	0	22.20	22.26	22.12	23.5	0	
10	16QAM	1	0	22.33	22.32	22.17			
10	16QAM	1	25	22.37	22.30	22.25			
10	16QAM	1	49	22.32	22.36	22.18	22.5	1	
10	16QAM	25	0	21.31	21.37	21.11			
10	16QAM	25	12	21.31	21.27	21.15			
10	16QAM	25	25	21.30	21.17	21.13	21.5	2	
10	16QAM	50	0	21.31	21.21	21.07			
10	64QAM	1	0	21.11	21.15	21.07			
10	64QAM	1	25	21.22	21.19	21.05	22.5	1	
10	64QAM	1	49	21.23	21.14	21.16			
10	64QAM	25	0	20.23	20.28	20.18			
10	64QAM	25	12	20.22	20.29	20.10	21.5	2	
10	64QAM	25	25	20.36	20.23	20.22			
10	64QAM	50	0	20.31	20.33	20.15			
Channel				37775 <th>38000</th> <th>38225</th> <th rowspan="2">23.5</th> <th colspan="2" rowspan="2">0</th>	38000	38225	23.5	0	
Frequency (MHz)				2572.5 <th>2595</th> <th>2617.5</th>	2595	2617.5			
5	QPSK	1	0	22.05	21.99	21.95	23.5	0	
5	QPSK	1	12	22.00	21.97	21.85			
5	QPSK	1	24	22.05	21.91	21.91			
5	QPSK	12	0	22.24	22.33	22.14	23.5	0	
5	QPSK	12	7	22.30	22.28	22.05			
5	QPSK	12	13	22.25	22.10	22.10			
5	QPSK	25	0	22.19	22.31	22.07	23.5	0	
5	16QAM	1	0	22.38	22.33	22.14			
5	16QAM	1	12	22.34	22.32	22.29			
5	16QAM	1	24	22.31	22.29	22.23	22.5	1	
5	16QAM	12	0	21.22	21.31	21.09			
5	16QAM	12	7	21.28	21.36	21.12			
5	16QAM	12	13	21.38	21.13	21.16	22.5	1	
5	16QAM	25	0	21.29	21.22	21.12			
5	64QAM	1	0	21.17	21.14	21.01			
5	64QAM	1	12	21.14	21.11	21.04	21.5	2	
5	64QAM	1	24	21.27	21.20	21.06			
5	64QAM	12	0	20.20	20.29	20.12			
5	64QAM	12	7	20.23	20.34	20.12	21.5	2	
5	64QAM	12	13	20.35	20.14	20.15			
5	64QAM	25	0	20.25	20.32	20.11			



Band 41												
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				39750	40185	40620	41055	41490	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	22.57	22.44	22.38	22.35	22.22	23.5	0		
20	QPSK	1	49	22.49	22.43	22.33	22.20	22.12				
20	QPSK	1	99	22.49	22.41	22.38	22.23	22.08				
20	QPSK	50	0	21.51	21.29	21.24	21.12	21.06	23.5	0		
20	QPSK	50	24	21.40	21.38	21.22	21.21	21.06				
20	QPSK	50	50	21.45	21.36	21.29	21.18	21.01				
20	QPSK	100	0	21.46	21.34	21.22	21.15	21.04	23.5	0		
20	16QAM	1	0	22.20	22.03	22.09	21.97	21.89				
20	16QAM	1	49	22.14	22.07	22.01	21.90	21.71				
20	16QAM	1	99	22.14	22.05	22.04	21.92	21.76	22.5	1		
20	16QAM	50	0	22.46	22.26	22.21	22.07	22.04				
20	16QAM	50	24	22.43	22.32	22.21	22.19	22.01				
20	16QAM	50	50	22.42	22.33	22.27	22.14	21.98	22.5	1		
20	16QAM	100	0	22.43	22.35	22.28	22.16	22.03				
20	64QAM	1	0	21.48	21.29	21.25	21.14	21.06				
20	64QAM	1	49	21.34	21.27	21.21	21.08	20.98	21.5	1		
20	64QAM	1	99	21.34	21.27	21.25	21.11	21.00				
20	64QAM	50	0	20.45	20.28	20.25	20.12	20.09				
20	64QAM	50	24	20.48	20.41	20.25	20.23	20.07	21.5	2		
20	64QAM	50	50	20.43	20.37	20.29	20.16	20.01				
20	64QAM	100	0	20.48	20.36	20.25	20.20	20.03				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	22.16	22.00	21.99	21.95	21.84	23.5	0		
15	QPSK	1	37	22.09	22.06	22.01	21.83	21.64				
15	QPSK	1	74	22.09	21.99	21.94	21.85	21.70				
15	QPSK	36	0	22.46	22.22	22.11	22.04	21.98	23.5	0		
15	QPSK	36	20	22.37	22.27	22.21	22.18	21.91				
15	QPSK	36	39	22.34	22.29	22.21	22.05	21.92				
15	QPSK	75	0	22.38	22.28	22.13	22.07	22.00	22.5	1		
15	16QAM	1	0	22.40	22.39	22.37	22.34	22.18				
15	16QAM	1	37	22.41	22.36	22.31	22.18	22.04				
15	16QAM	1	74	22.44	22.31	22.29	22.19	22.00	22.5	0		
15	16QAM	36	0	21.44	21.24	21.18	21.05	21.05				
15	16QAM	36	20	21.43	21.31	21.18	21.15	20.99				
15	16QAM	36	39	21.39	21.30	21.27	21.14	20.97	22.5	1		
15	16QAM	75	0	21.44	21.31	21.21	21.05	20.98				
15	64QAM	1	0	21.39	21.17	21.18	21.07	20.96				
15	64QAM	1	37	21.24	21.24	21.18	21.04	20.89	22.5	1		
15	64QAM	1	74	21.28	21.22	21.17	21.10	20.92				
15	64QAM	36	0	20.38	20.23	20.22	20.05	20.02				
15	64QAM	36	20	20.39	20.39	20.19	20.23	20.06	21.5	2		
15	64QAM	36	39	20.38	20.28	20.22	20.10	19.96				
15	64QAM	75	0	20.43	20.35	20.25	20.10	19.97				
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2501	2547	2593	2639	2685	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	22.13	22.00	22.08	21.91	21.89	23.5	0		
10	QPSK	1	25	22.14	21.99	21.91	21.88	21.63				
10	QPSK	1	49	22.06	22.04	22.00	21.86	21.70				
10	QPSK	25	0	22.41	22.16	22.20	21.98	22.04	23.5	0		
10	QPSK	25	12	22.34	22.30	22.13	22.19	21.97				
10	QPSK	25	25	22.39	22.33	22.23	22.06	21.88				
10	QPSK	50	0	22.39	22.25	22.10	22.15	22.02	23.5	0		
10	16QAM	1	0	22.50	22.38	22.32	22.30	22.12				
10	16QAM	1	25	22.44	22.34	22.25	22.12	22.04				
10	16QAM	1	49	22.42	22.31	22.29	22.23	22.08	22.5	1		
10	16QAM	25	0	21.43	21.25	21.14	21.09	20.97				
10	16QAM	25	12	21.40	21.30	21.18	21.16	20.98				
10	16QAM	25	25	21.41	21.30	21.20	21.09	20.98	22.5	1		
10	16QAM	50	0	21.45	21.28	21.18	21.05	20.97				
10	64QAM	1	0	21.39	21.23	21.19	21.12	21.02				
10	64QAM	1	25	21.25	21.22	21.13	21.01	20.94	22.5	1		
10	64QAM	1	49	21.27	21.20	21.22	21.09	20.94				
10	64QAM	25	0	20.37	20.23	20.21	20.08	20.08				
10	64QAM	25	12	20.46	20.35	20.15	20.23	20.05	21.5	2		
10	64QAM	25	25	20.42	20.35	20.20	20.10	19.93				
10	64QAM	50	0	20.39	20.35	20.20	20.19	20.01				
Channel				39675	40148	40620	41093	41555	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2498.5	2545.6	2593	2640.3	2687.5	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	22.11	22.00	21.99	21.94	21.84	23.5	0		
5	QPSK	1	12	22.04	22.05	22.01	21.84	21.64				
5	QPSK	1	24	22.14	22.02	21.95	21.88	21.70				
5	QPSK	12	0	22.38	22.23	22.20	21.98	21.94	23.5	0		
5	QPSK	12	7	22.41	22.32	22.13	22.16	21.95				
5	QPSK	12	13	22.39	22.30	22.23	22.09	21.93				
5	QPSK	25	0	22.35	22.34	22.18	22.14	21.98	23.5	0		
5	16QAM	1	0	22.53	22.36	22.38	22.33	22.19				
5	16QAM	1	12	22.46	22.37	22.28	22.19	22.03				
5	16QAM	1	24	22.43	22.40	22.32	22.15	22.07	22.5	1		
5	16QAM	12	0	21.46	21.19	21.22	21.07	21.01				
5	16QAM	12	7	21.46	21.33	21.20	21.14	21.01				
5	16QAM	12	13	21.40	21.27	21.28	21.11	21.00	22.5	1		
5	16QAM	25	0	21.38	21.24	21.18	21.06	21.03				
5	64QAM	1	0	21.39	21.24	21.17	21.04	20.97				
5	64QAM	1	12	21.32	21.26	21.18	21.00	20.98	22.5	1		
5	64QAM	1	24	21.30	21.20	21.16	21.03	20.95				
5	64QAM	12	0	20.39	20.25	20.22	20.04	20.06				
5	64QAM	12	7	20.47	20.37	20.24	20.21	20.06	21.5	2		
5	64QAM	12	13	20.43	20.37	20.23	20.06	19.91				
5	64QAM	25	0	20.47	20.26	20.23	20.20	19.97				



Band 38									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.91	23.95	23.94	25	0	
20	QPSK	1	49	23.85	23.92	23.86			
20	QPSK	1	99	23.84	23.80	23.81			
20	QPSK	50	0	23.04	23.10	23.00	24	1	
20	QPSK	50	24	22.88	23.07	22.96			
20	QPSK	50	50	22.43	22.99	22.98			
20	QPSK	100	0	23.03	23.06	22.93	24	1	
20	16QAM	1	0	23.01	23.07	23.07			
20	16QAM	1	49	23.01	22.99	22.95			
20	16QAM	1	99	22.93	22.94	22.86	23	2	
20	16QAM	50	0	22.07	22.13	22.03			
20	16QAM	50	24	22.06	22.09	21.99			
20	16QAM	50	50	21.96	22.05	22.01	23	2	
20	16QAM	100	0	22.04	22.07	21.96			
20	64QAM	1	0	21.59	21.69	21.60			
20	64QAM	1	49	21.60	21.58	21.58	23	2	
20	64QAM	1	99	21.49	21.56	21.54			
20	64QAM	50	0	21.08	21.15	21.02			
20	64QAM	50	24	21.05	21.10	21.01	22	3	
20	64QAM	50	50	21.04	21.04	21.02			
20	64QAM	100	0	21.07	21.09	20.98			
Channel				37825	38000	38175	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.74	23.78	23.78	25	0	
15	QPSK	1	37	23.71	23.79	23.82			
15	QPSK	1	74	23.70	23.60	23.69			
15	QPSK	36	0	22.87	23.05	22.96	24	1	
15	QPSK	36	20	22.85	22.99	22.94			
15	QPSK	36	39	22.38	22.86	22.94			
15	QPSK	75	0	22.97	22.98	22.90	24	1	
15	16QAM	1	0	22.99	22.96	22.90			
15	16QAM	1	37	22.90	22.98	22.89			
15	16QAM	1	74	22.87	22.83	22.84	23	2	
15	16QAM	36	0	21.99	22.10	22.03			
15	16QAM	36	20	22.00	21.98	21.88			
15	16QAM	36	39	21.85	21.91	21.96	23	2	
15	16QAM	75	0	21.90	21.91	21.81			
15	64QAM	1	0	21.56	21.54	21.40			
15	64QAM	1	37	21.46	21.50	21.47	23	2	
15	64QAM	1	74	21.31	21.36	21.48			
15	64QAM	36	0	21.02	21.04	20.89			
15	64QAM	36	20	20.85	21.08	20.92	22	3	
15	64QAM	36	39	21.03	20.86	20.84			
15	64QAM	75	0	21.03	21.04	20.89			
Channel				37800	38000	38200	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.79	23.87	23.87	25	0	
10	QPSK	1	25	23.77	23.72	23.78			
10	QPSK	1	49	23.76	23.73	23.80			
10	QPSK	25	0	23.04	23.08	22.91	24	1	
10	QPSK	25	12	22.71	22.97	22.90			
10	QPSK	25	25	22.30	22.96	22.94			
10	QPSK	50	0	22.93	22.96	22.90	24	1	
10	16QAM	1	0	22.88	23.04	22.94			
10	16QAM	1	25	23.00	22.90	22.82			
10	16QAM	1	49	22.85	22.77	22.81	23	2	
10	16QAM	25	0	21.98	22.10	22.03			
10	16QAM	25	12	22.02	22.04	21.91			
10	16QAM	25	25	21.93	22.01	21.96	22	3	
10	16QAM	50	0	21.92	21.93	21.92			
10	64QAM	1	0	21.57	21.66	21.50			
10	64QAM	1	25	21.51	21.48	21.42	23	2	
10	64QAM	1	49	21.44	21.37	21.37			
10	64QAM	25	0	20.96	21.09	20.91			
10	64QAM	25	12	21.04	20.97	20.83	22	3	
10	64QAM	25	25	20.97	21.03	20.98			
10	64QAM	50	0	20.93	21.01	20.84			
Channel				37775	38000	38225	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.72	23.87	23.81	25	0	
5	QPSK	1	12	23.67	23.73	23.85			
5	QPSK	1	24	23.82	23.61	23.71			
5	QPSK	12	0	22.96	23.04	22.80	24	1	
5	QPSK	12	7	22.83	23.05	22.82			
5	QPSK	12	13	22.29	22.83	22.89			
5	QPSK	25	0	22.95	22.90	22.85	24	1	
5	16QAM	1	0	23.00	22.95	23.00			
5	16QAM	1	12	22.83	22.83	22.79			
5	16QAM	1	24	22.78	22.76	22.84	23	2	
5	16QAM	12	0	22.04	21.95	21.96			
5	16QAM	12	7	21.92	22.02	21.92			
5	16QAM	12	13	21.91	21.87	21.95	23	2	
5	16QAM	25	0	22.03	22.04	21.98			
5	64QAM	1	0	21.41	21.55	21.42			
5	64QAM	1	12	21.57	21.53	21.53	23	2	
5	64QAM	1	24	21.42	21.52	21.53			
5	64QAM	12	0	21.08	21.06	20.93			
5	64QAM	12	7	20.85	21.00	20.98	22	3	
5	64QAM	12	13	20.91	21.04	20.99			
5	64QAM	25	0	21.03	21.02	20.96			



Band 41											
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.	Turn-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	21.07	21.06	21.17	20.93	20.83	22	0	
20	QPSK	1	49	21.01	21.03	21.15	20.89	20.78			
20	QPSK	1	99	20.92	21.01	21.12	20.88	20.72	22	0	
20	QPSK	50	0	20.96	20.99	21.14	20.85	20.75			
20	QPSK	50	24	20.90	20.96	21.12	20.84	20.68	22	0	
20	QPSK	50	50	20.83	21.01	21.11	20.82	20.72			
20	QPSK	100	0	21.10	21.09	21.12	21.06	20.84	22	0	
20	16QAM	1	0	20.93	20.97	21.08	20.82	20.74			
20	16QAM	1	49	20.94	20.86	21.11	20.81	20.72	22	0	
20	16QAM	1	99	21.07	21.00	21.15	20.92	20.82			
20	16QAM	50	0	20.75	21.06	21.13	20.86	20.79	22	0	
20	16QAM	50	24	20.99	20.98	21.15	20.90	20.78			
20	16QAM	50	50	21.04	21.03	21.16	20.84	20.80	22	0	
20	16QAM	100	0	20.60	20.64	20.77	20.58	20.59			
20	64QAM	1	0	20.57	20.53	20.64	20.51	20.73	22	0	
20	64QAM	1	49	20.72	20.62	20.71	20.80	20.83			
20	64QAM	1	99	20.93	20.96	20.91	20.87	20.80	22	0	
20	64QAM	50	0	20.95	20.95	20.94	20.91	20.74			
20	64QAM	50	24	20.83	20.83	20.95	20.77	20.60	22	0	
20	64QAM	50	50	20.86	20.77	20.93	20.79	20.75			
20	64QAM	100	0	21.02	20.98	20.95	20.87	20.80			
Channel				39725	40173	40620	41068	41515	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	20.88	20.94	21.11	20.84	20.79	22	0	
15	QPSK	1	37	20.92	20.94	21.01	20.84	20.78			
15	QPSK	1	74	20.89	20.93	21.05	20.77	20.71	22	0	
15	QPSK	36	0	20.75	20.87	20.98	20.73	20.57			
15	QPSK	36	20	20.90	20.76	21.09	20.67	20.53	22	0	
15	QPSK	36	39	20.77	20.91	21.04	20.71	20.72			
15	QPSK	75	0	21.00	21.06	21.11	20.94	20.82	22	0	
15	16QAM	1	0	20.74	20.95	21.08	20.75	20.71			
15	16QAM	1	37	20.80	20.76	20.91	20.61	20.60	22	0	
15	16QAM	1	74	20.89	20.94	21.06	20.72	20.82			
15	16QAM	36	0	20.67	20.96	21.11	20.80	20.69	22	0	
15	16QAM	36	20	20.99	20.97	21.09	20.77	20.66			
15	16QAM	36	39	20.96	20.97	21.16	20.65	20.79	22	0	
15	16QAM	75	0	20.51	20.59	20.70	20.45	20.56			
15	64QAM	1	0	20.49	20.44	20.52	20.46	20.54	22	0	
15	64QAM	1	37	20.55	20.61	20.67	20.70	20.81			
15	64QAM	1	74	20.87	20.79	20.78	20.67	20.78	22	0	
15	64QAM	36	0	20.87	20.77	20.90	20.90	20.60			
15	64QAM	36	20	20.75	20.65	20.83	20.59	20.52	22	0	
15	64QAM	36	39	20.71	20.77	20.88	20.66	20.75			
15	64QAM	75	0	20.95	20.95	20.83	20.87	20.74			
Channel				39700	40160	40620	41080	41540	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	21.00	20.94	20.98	20.83	20.74	22	0	
10	QPSK	1	25	21.11	20.90	20.95	20.84	20.71			
10	QPSK	1	49	21.01	20.89	20.92	20.72	20.72	22	0	
10	QPSK	25	0	20.98	20.98	20.67	20.67	20.60			
10	QPSK	25	12	21.08	20.91	20.88	20.66	20.68	22	0	
10	QPSK	25	25	21.08	21.01	20.84	20.79	20.58			
10	QPSK	50	0	21.02	21.08	20.95	20.86	20.83	22	0	
10	16QAM	1	0	20.91	20.84	20.83	20.68	20.68			
10	16QAM	1	25	21.04	20.83	20.85	20.81	20.60	22	0	
10	16QAM	1	49	21.05	20.96	20.97	20.78	20.68			
10	16QAM	25	0	21.11	20.86	20.60	20.73	20.66	22	0	
10	16QAM	25	12	20.95	20.82	20.86	20.73	20.68			
10	16QAM	25	25	21.03	20.92	21.03	20.79	20.73	22	0	
10	16QAM	50	0	20.59	20.46	20.55	20.50	20.54			
10	64QAM	1	0	20.52	20.49	20.41	20.59	20.62	22	0	
10	64QAM	1	25	20.70	20.45	20.56	20.66	20.83			
10	64QAM	1	49	20.87	20.89	20.90	20.82	20.77	22	0	
10	64QAM	25	0	20.90	20.85	20.93	20.81	20.58			
10	64QAM	25	12	20.84	20.82	20.75	20.75	20.60	22	0	
10	64QAM	25	25	20.86	20.59	20.70	20.64	20.57			
10	64QAM	50	0	20.78	20.93	20.87	20.81	20.76			
Channel				39675	40148	40620	41093	41565	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2498.5	25458	2593	2640.5	2687.5			
5	QPSK	1	0	20.92	20.92	21.16	20.85	20.77	22	0	
5	QPSK	1	12	20.82	21.02	20.99	20.82	20.65			
5	QPSK	1	24	20.83	20.93	20.96	20.71	20.68	22	0	
5	QPSK	12	0	20.73	20.93	20.92	20.79	20.63			
5	QPSK	12	7	20.81	20.86	21.00	20.78	20.51	22	0	
5	QPSK	12	13	20.92	20.81	21.09	20.77	20.57			
5	QPSK	25	0	20.98	20.93	21.02	20.87	20.68	22	0	
5	16QAM	1	0	20.85	20.94	20.93	20.80	20.58			
5	16QAM	1	12	20.78	20.81	21.04	20.78	20.72	22	0	
5	16QAM	1	24	21.00	20.84	21.02	20.80	20.82			
5	16QAM	12	0	20.64	20.97	20.94	20.69	20.61	22	0	
5	16QAM	12	7	20.92	20.89	21.06	20.84	20.67			
5	16QAM	12	13	20.95	20.86	20.99	20.84	20.72	22	0	
5	16QAM	25	0	20.52	20.58	20.70	20.47	20.46			
5	64QAM	1	0	20.53	20.42	20.57	20.55	20.63	22	0	
5	64QAM	1	12	20.53	20.44	20.69	20.60	20.69			
5	64QAM	1	24	20.85	20.78	20.73	20.85	20.60	22	0	
5	64QAM	12	0	20.76	20.91	20.82	20.71	20.57			
5	64QAM	12	7	20.76	20.64	20.89	20.58	20.58	22	0	
5	64QAM	12	13	20.73	20.59	20.86	20.70	20.61			
5	64QAM	25	0	20.88	20.98	20.80	20.74	20.66			



Band 38									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	19	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	18.23	18.04	18.05			
20	QPSK	1	49	16.58	17.86	17.89	19	0	
20	QPSK	1	99	17.26	17.77	17.84			
20	QPSK	50	0	18.09	18.05	17.98			
20	QPSK	50	24	16.70	17.99	17.95	19	0	
20	QPSK	50	50	17.32	17.94	17.97			
20	QPSK	100	0	17.27	18.01	17.95			
20	16QAM	1	0	16.58	18.04	18.10	19	0	
20	16QAM	1	49	17.81	17.97	18.02			
20	16QAM	1	99	16.47	17.95	17.97			
20	16QAM	50	0	16.07	18.09	18.02	19	0	
20	16QAM	50	24	18.00	18.04	18.01			
20	16QAM	50	50	16.33	17.99	18.02			
20	16QAM	100	0	18.13	18.04	17.96	19	0	
20	64QAM	1	0	17.73	17.65	17.62			
20	64QAM	1	49	17.44	17.58	17.61			
20	64QAM	1	99	17.79	17.55	17.59	19	0	
20	64QAM	50	0	18.08	18.09	18.05			
20	64QAM	50	24	17.51	18.05	18.01			
20	64QAM	50	50	18.04	18.01	18.03	19	0	
20	64QAM	100	0	18.16	18.04	18.00			
Channel				37825	38000	38175	19	0	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	18.19	17.96	17.97			
15	QPSK	1	37	16.51	17.86	17.89	19	0	
15	QPSK	1	74	17.17	17.75	17.82			
15	QPSK	36	0	18.00	18.01	17.96			
15	QPSK	36	20	16.60	17.95	17.89	19	0	
15	QPSK	36	39	17.22	17.90	17.91			
15	QPSK	75	0	17.25	17.95	17.93			
15	16QAM	1	0	16.46	18.04	18.00	19	0	
15	16QAM	1	37	17.74	17.93	17.98			
15	16QAM	1	74	16.47	17.88	17.91			
15	16QAM	36	0	16.07	18.03	18.01	19	0	
15	16QAM	36	20	18.00	18.00	17.96			
15	16QAM	36	39	16.25	17.96	17.94			
15	16QAM	75	0	18.04	18.02	17.92	19	0	
15	64QAM	1	0	17.73	17.62	17.59			
15	64QAM	1	37	17.37	17.56	17.51			
15	64QAM	1	74	17.74	17.54	17.52	19	0	
15	64QAM	36	0	18.07	18.01	17.97			
15	64QAM	36	20	17.46	17.98	17.92			
15	64QAM	36	39	17.98	18.00	18.01	19	0	
15	64QAM	75	0	18.15	18.01	17.98			
Channel				37800	38000	38200	19	0	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	18.17	18.01	18.05			
10	QPSK	1	25	16.49	17.86	17.80	19	0	
10	QPSK	1	49	17.22	17.69	17.79			
10	QPSK	25	0	18.01	18.04	17.90			
10	QPSK	25	12	16.63	17.97	17.91	19	0	
10	QPSK	25	25	17.29	17.92	17.87			
10	QPSK	50	0	17.18	17.97	17.91			
10	16QAM	1	0	16.55	17.98	18.04	19	0	
10	16QAM	1	25	17.75	17.88	17.99			
10	16QAM	1	49	16.40	17.92	17.87			
10	16QAM	25	0	15.99	18.07	17.99	19	0	
10	16QAM	25	12	17.97	18.02	18.00			
10	16QAM	25	25	16.23	17.93	17.96			
10	16QAM	50	0	18.08	17.94	17.98	19	0	
10	64QAM	1	0	17.65	17.60	17.53			
10	64QAM	1	25	17.34	17.50	17.54			
10	64QAM	1	49	17.72	17.53	17.58	19	0	
10	64QAM	25	0	17.96	18.03	18.03			
10	64QAM	25	12	17.45	18.01	17.97			
10	64QAM	25	25	17.97	17.95	18.03	19	0	
10	64QAM	50	0	18.13	18.00	17.95			
Channel				37775	38000	38225	19	0	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	18.19	17.97	17.97			
5	QPSK	1	12	16.58	17.80	17.83	19	0	
5	QPSK	1	24	17.20	17.72	17.74			
5	QPSK	12	0	18.05	17.99	17.89			
5	QPSK	12	7	16.60	17.96	17.93	19	0	
5	QPSK	12	13	17.24	17.94	17.95			
5	QPSK	25	0	17.27	17.93	17.94			
5	16QAM	1	0	16.51	17.97	18.06	19	0	
5	16QAM	1	12	17.77	17.91	17.97			
5	16QAM	1	24	16.46	17.88	17.94			
5	16QAM	12	0	15.96	17.99	17.92	19	0	
5	16QAM	12	7	17.96	17.95	17.92			
5	16QAM	12	13	16.26	17.99	17.98			
5	16QAM	25	0	18.11	17.95	17.90	19	0	
5	64QAM	1	0	17.67	17.57	17.60			
5	64QAM	1	12	17.39	17.51	17.58			
5	64QAM	1	24	17.78	17.46	17.58	19	0	
5	64QAM	12	0	18.02	18.02	17.95			
5	64QAM	12	7	17.51	17.95	17.93			
5	64QAM	12	13	17.98	17.92	18.00	19	0	
5	64QAM	25	0	18.15	17.96	17.91			



Band 41												
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				39750	40185	40620	41055	41490	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2500	2549.5	2593	2636.5	2680				
20	QPSK	1	0	18.89	18.84	18.71	18.83	18.60	19	0		
20	QPSK	1	49	18.77	18.74	18.69	18.59	18.39				
20	QPSK	1	99	18.85	18.65	18.68	18.58	18.46	19	0		
20	QPSK	50	0	18.88	18.78	18.80	18.64	18.51				
20	QPSK	50	24	18.86	18.77	18.77	18.57	18.49	19	0		
20	QPSK	50	50	18.82	18.72	18.71	18.60	18.45				
20	QPSK	100	0	18.87	18.76	18.74	18.56	18.49	19	0		
20	16QAM	1	0	18.80	18.67	18.74	18.63	18.49				
20	16QAM	1	49	18.84	18.76	18.71	18.58	18.52	19	0		
20	16QAM	1	99	18.86	18.68	18.67	18.59	18.44				
20	16QAM	50	0	18.85	18.72	18.72	18.57	18.51	19	0		
20	16QAM	50	24	18.69	18.65	18.39	18.66	18.49				
20	16QAM	50	50	18.68	18.61	18.40	18.51	18.33	19	0		
20	16QAM	100	0	18.70	18.51	18.57	18.44	18.38				
20	64QAM	1	0	18.85	18.72	18.63	18.62	18.53	19	0		
20	64QAM	1	49	18.88	18.76	18.60	18.57	18.50				
20	64QAM	1	99	18.87	18.70	18.70	18.58	18.47	19	0		
20	64QAM	50	0	18.85	18.76	18.59	18.55	18.50				
20	64QAM	50	24	18.42	18.50	18.30	18.30	18.18	19	0		
20	64QAM	50	50	18.33	18.26	18.23	18.35	18.04				
20	64QAM	100	0	18.43	18.32	18.07	18.25	17.96				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	18.88	18.72	18.66	18.82	18.43	19	0		
15	QPSK	1	37	18.61	18.57	18.53	18.42	18.38				
15	QPSK	1	74	18.75	18.57	18.55	18.45	18.44	19	0		
15	QPSK	36	0	18.88	18.75	18.79	18.56	18.32				
15	QPSK	36	20	18.66	18.67	18.71	18.57	18.29	19	0		
15	QPSK	36	39	18.73	18.67	18.53	18.42	18.33				
15	QPSK	75	0	18.86	18.58	18.68	18.55	18.29	19	0		
15	16QAM	1	0	18.66	18.54	18.71	18.56	18.48				
15	16QAM	1	37	18.70	18.71	18.65	18.50	18.35	19	0		
15	16QAM	1	74	18.85	18.59	18.65	18.42	18.35				
15	16QAM	36	0	18.70	18.70	18.64	18.37	18.51	19	0		
15	16QAM	36	20	18.69	18.56	18.20	18.65	18.45				
15	16QAM	36	39	18.62	18.50	18.33	18.36	18.22	19	0		
15	16QAM	75	0	18.61	18.44	18.54	18.40	18.33				
15	64QAM	1	0	18.66	18.52	18.59	18.46	18.33	19	0		
15	64QAM	1	37	18.71	18.56	18.51	18.51	18.33				
15	64QAM	1	74	18.69	18.70	18.57	18.54	18.27	19	0		
15	64QAM	36	0	18.72	18.66	18.57	18.43	18.49				
15	64QAM	36	20	18.38	18.47	18.27	18.17	18.08	19	0		
15	64QAM	36	39	18.13	18.25	18.23	18.23	17.97				
15	64QAM	75	0	18.33	18.29	17.93	18.20	17.79				
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	18.73	18.70	18.70	18.71	18.47	19	0		
10	QPSK	1	25	18.65	18.55	18.59	18.55	18.24				
10	QPSK	1	49	18.73	18.52	18.67	18.39	18.25	19	0		
10	QPSK	25	0	18.86	18.74	18.64	18.63	18.33				
10	QPSK	25	12	18.76	18.76	18.67	18.45	18.44	19	0		
10	QPSK	25	25	18.84	18.55	18.62	18.46	18.31				
10	QPSK	50	0	18.82	18.62	18.59	18.51	18.33	19	0		
10	16QAM	1	0	18.68	18.65	18.68	18.51	18.45				
10	16QAM	1	25	18.80	18.60	18.70	18.56	18.32	19	0		
10	16QAM	1	49	18.71	18.67	18.49	18.44	18.42				
10	16QAM	25	0	18.76	18.67	18.54	18.54	18.51	19	0		
10	16QAM	25	12	18.50	18.48	18.28	18.57	18.33				
10	16QAM	25	25	18.50	18.58	18.27	18.38	18.18	19	0		
10	16QAM	50	0	18.63	18.50	18.45	18.25	18.23				
10	64QAM	1	0	18.78	18.59	18.52	18.52	18.34	19	0		
10	64QAM	1	25	18.84	18.73	18.50	18.57	18.48				
10	64QAM	1	49	18.73	18.69	18.69	18.40	18.46	19	0		
10	64QAM	25	0	18.77	18.70	18.49	18.46	18.45				
10	64QAM	25	12	18.25	18.44	18.12	18.22	18.03	19	0		
10	64QAM	25	25	18.25	18.08	18.05	18.34	18.04				
10	64QAM	50	0	18.41	18.25	17.90	18.08	17.88				
Channel				39675	40148	40620	41093	41555	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2488.5	25458	2593	2648.5	2697.5				
5	QPSK	1	0	18.80	18.68	18.64	18.73	18.49	19	0		
5	QPSK	1	12	18.77	18.67	18.66	18.59	18.31				
5	QPSK	1	24	18.76	18.57	18.52	18.39	18.33	19	0		
5	QPSK	12	0	18.81	18.70	18.76	18.64	18.34				
5	QPSK	12	7	18.74	18.65	18.76	18.51	18.39	19	0		
5	QPSK	12	13	18.72	18.56	18.54	18.51	18.42				
5	QPSK	25	0	18.69	18.67	18.70	18.55	18.35	19	0		
5	16QAM	1	0	18.67	18.60	18.57	18.48	18.32				
5	16QAM	1	12	18.65	18.68	18.51	18.47	18.35	19	0		
5	16QAM	1	24	18.80	18.58	18.54	18.55	18.25				
5	16QAM	12	0	18.67	18.66	18.72	18.50	18.50	19	0		
5	16QAM	12	7	18.60	18.61	18.22	18.53	18.44				
5	16QAM	12	13	18.54	18.51	18.35	18.45	18.16	19	0		
5	16QAM	25	0	18.56	18.38	18.39	18.36	18.35				
5	64QAM	1	0	18.74	18.72	18.54	18.53	18.44	19	0		
5	64QAM	1	12	18.71	18.61	18.48	18.53	18.44				
5	64QAM	1	24	18.67	18.64	18.68	18.44	18.39	19	0		
5	64QAM	12	0	18.80	18.69	18.58	18.46	18.35				
5	64QAM	12	7	18.25	18.32	18.28	18.22	18.17	19	0		
5	64QAM	12	13	18.22	18.19	18.13	18.23	18.01				
5	64QAM	25	0	18.23	18.27	17.90	18.06	17.79				



Band 38									
RF [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	20	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	18.70	18.73	18.80			
20	QPSK	1	49	18.70	18.69	18.71	20	0	
20	QPSK	1	99	18.67	18.64	18.65			
20	QPSK	50	0	18.38	18.37	18.51			
20	QPSK	50	24	18.38	18.48	18.37	20	0	
20	QPSK	50	50	18.42	18.31	18.39			
20	QPSK	100	0	18.38	18.45	18.36			
20	16QAM	1	0	18.48	18.48	18.49	20	0	
20	16QAM	1	49	18.37	18.37	18.42			
20	16QAM	1	99	18.39	18.42	18.40			
20	16QAM	50	0	18.48	18.55	18.44	20	0	
20	16QAM	50	24	18.41	18.48	18.43			
20	16QAM	50	50	18.44	18.34	18.43			
20	16QAM	100	0	18.41	18.47	18.39	20	0	
20	64QAM	1	0	18.29	18.21	18.21			
20	64QAM	1	49	18.17	18.20	18.21			
20	64QAM	1	99	18.17	18.20	18.22	20	0	
20	64QAM	50	0	18.46	18.55	18.48			
20	64QAM	50	24	18.44	18.49	18.43			
20	64QAM	50	50	18.47	18.37	18.45	20	0	
20	64QAM	100	0	18.43	18.48	18.42			
Channel				37825	38000	38175	20	0	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	18.64	18.65	18.53			
15	QPSK	1	37	18.66	18.68	18.64	20	0	
15	QPSK	1	74	18.66	18.58	18.62			
15	QPSK	36	0	18.31	18.32	18.46	20	0	
15	QPSK	36	20	18.32	18.48	18.28			
15	QPSK	36	39	18.41	18.30	18.34			
15	QPSK	75	0	18.35	18.38	18.36	20	0	
15	16QAM	1	0	18.45	18.46	18.49			
15	16QAM	1	37	18.30	18.27	18.32			
15	16QAM	1	74	18.30	18.34	18.36	20	0	
15	16QAM	36	0	18.43	18.45	18.38			
15	16QAM	36	20	18.31	18.43	18.40			
15	16QAM	36	39	18.35	18.28	18.37	20	0	
15	16QAM	75	0	18.41	18.38	18.32			
15	64QAM	1	0	18.22	18.17	18.21			
15	64QAM	1	37	18.07	18.13	18.21	20	0	
15	64QAM	1	74	18.15	18.15	18.16			
15	64QAM	36	0	18.43	18.51	18.39			
15	64QAM	36	20	18.36	18.48	18.39	20	0	
15	64QAM	36	39	18.44	18.29	18.35			
15	64QAM	75	0	18.33	18.38	18.35			
Channel				37800	38000	38200	20	0	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	18.65	18.70	18.65			
10	QPSK	1	25	18.60	18.68	18.63	20	0	
10	QPSK	1	49	18.62	18.55	18.59			
10	QPSK	25	0	18.33	18.37	18.50	20	0	
10	QPSK	25	12	18.34	18.45	18.34			
10	QPSK	25	25	18.33	18.21	18.36			
10	QPSK	50	0	18.30	18.36	18.28	20	0	
10	16QAM	1	0	18.42	18.38	18.42			
10	16QAM	1	25	18.34	18.31	18.41			
10	16QAM	1	49	18.33	18.39	18.37	20	0	
10	16QAM	25	0	18.43	18.45	18.38			
10	16QAM	25	12	18.33	18.40	18.37			
10	16QAM	25	25	18.35	18.27	18.34	20	0	
10	16QAM	50	0	18.35	18.46	18.31			
10	64QAM	1	0	18.20	18.14	18.21			
10	64QAM	1	25	18.07	18.13	18.19	20	0	
10	64QAM	1	49	18.16	18.10	18.20			
10	64QAM	25	0	18.39	18.49	18.41			
10	64QAM	25	12	18.42	18.44	18.40	20	0	
10	64QAM	25	25	18.45	18.30	18.40			
10	64QAM	50	0	18.41	18.45	18.42			
Channel				37775	38000	38225	20	0	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	18.69	18.66	18.73			
5	QPSK	1	12	18.63	18.64	18.61	20	0	
5	QPSK	1	24	18.58	18.56	18.55			
5	QPSK	12	0	18.29	18.34	18.42	20	0	
5	QPSK	12	7	18.33	18.39	18.32			
5	QPSK	12	13	18.39	18.28	18.32			
5	QPSK	25	0	18.28	18.36	18.32	20	0	
5	16QAM	1	0	18.43	18.38	18.41			
5	16QAM	1	12	18.29	18.28	18.40			
5	16QAM	1	24	18.33	18.40	18.31	20	0	
5	16QAM	12	0	18.46	18.51	18.41			
5	16QAM	12	7	18.39	18.47	18.35			
5	16QAM	12	13	18.35	18.25	18.40	20	0	
5	16QAM	25	0	18.31	18.43	18.31			
5	64QAM	1	0	18.27	18.21	18.18			
5	64QAM	1	12	18.08	18.20	18.14	20	0	
5	64QAM	1	24	18.09	18.13	18.22			
5	64QAM	12	0	18.44	18.50	18.45			
5	64QAM	12	7	18.34	18.40	18.40	20	0	
5	64QAM	12	13	18.38	18.34	18.42			
5	64QAM	25	0	18.41	18.40	18.37			



Band 41											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Middle 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				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	18.84	18.68	18.56	18.51	18.25	20	0	
20	QPSK	1	49	18.56	18.48	18.43	18.35	18.17			
20	QPSK	1	99	18.57	18.38	18.32	18.27	18.19			
20	QPSK	50	0	18.60	18.49	18.50	18.48	18.27			
20	QPSK	50	24	18.52	18.55	18.46	18.49	18.24			
20	QPSK	50	50	18.54	18.55	18.50	18.43	18.17	20	0	
20	QPSK	100	0	18.63	18.64	18.49	18.48	18.23			
20	16QAM	1	0	18.62	18.66	18.64	18.66	18.39			
20	16QAM	1	49	18.58	18.57	18.49	18.45	18.20			
20	16QAM	1	99	18.55	18.43	18.50	18.36	18.17			
20	16QAM	50	0	18.64	18.62	18.55	18.54	18.32	20	0	
20	16QAM	50	24	18.69	18.64	18.51	18.53	18.27			
20	16QAM	50	50	18.67	18.60	18.55	18.46	18.22			
20	16QAM	100	0	18.70	18.67	18.50	18.52	18.27			
20	64QAM	1	0	18.41	18.27	18.18	18.16	18.11			
20	64QAM	1	49	18.32	18.17	18.10	18.15	17.81	20	0	
20	64QAM	1	99	18.37	18.12	18.15	17.97	17.73			
20	64QAM	50	0	18.69	18.64	18.57	18.55	18.36			
20	64QAM	50	24	18.70	18.66	18.53	18.54	18.29			
20	64QAM	50	50	18.69	18.58	18.57	18.46	18.25			
20	64QAM	100	0	18.72	18.63	18.52	18.53	18.30	Tune-up limit (dBm)	MPR (dB)	
Channel				39725	40173	40620	41068	41515			
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	18.83	18.61	18.47	18.41	18.17	20	0	
15	QPSK	1	37	18.56	18.38	18.35	18.30	18.10			
15	QPSK	1	74	18.52	18.31	18.35	18.24	18.09			
15	QPSK	36	0	18.53	18.41	18.45	18.42	18.25			
15	QPSK	36	20	18.50	18.51	18.38	18.40	18.23			
15	QPSK	36	39	18.51	18.53	18.45	18.42	18.14	20	0	
15	QPSK	75	0	18.53	18.58	18.40	18.45	18.16			
15	16QAM	1	0	18.58	18.64	18.58	18.65	18.31			
15	16QAM	1	37	18.53	18.52	18.41	18.35	18.19			
15	16QAM	1	74	18.54	18.38	18.48	18.35	18.17			
15	16QAM	36	0	18.55	18.62	18.54	18.51	18.30	20	0	
15	16QAM	36	20	18.61	18.64	18.48	18.45	18.27			
15	16QAM	36	39	18.65	18.60	18.49	18.43	18.16			
15	16QAM	75	0	18.70	18.63	18.44	18.51	18.22			
15	64QAM	1	0	18.33	18.25	18.17	18.12	18.03			
15	64QAM	1	37	18.23	18.16	18.00	18.10	18.00	20	0	
15	64QAM	1	74	18.35	18.02	18.10	18.05	18.01			
15	64QAM	36	0	18.64	18.56	18.50	18.45	18.32			
15	64QAM	36	20	18.62	18.65	18.49	18.44	18.22			
15	64QAM	36	39	18.65	18.51	18.50	18.45	18.18			
15	64QAM	75	0	18.72	18.55	18.44	18.46	18.20	Tune-up limit (dBm)	MPR (dB)	
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	18.79	18.65	18.55	18.44	18.17	20	0	
10	QPSK	1	25	18.53	18.39	18.33	18.33	18.12			
10	QPSK	1	49	18.52	18.38	18.41	18.22	18.18			
10	QPSK	25	0	18.58	18.40	18.50	18.46	18.23			
10	QPSK	25	12	18.47	18.60	18.40	18.43	18.15			
10	QPSK	25	25	18.51	18.54	18.48	18.39	18.08	20	0	
10	QPSK	50	0	18.54	18.62	18.42	18.44	18.19			
10	16QAM	1	0	18.56	18.65	18.57	18.65	18.32			
10	16QAM	1	25	18.55	18.53	18.49	18.45	18.11			
10	16QAM	1	49	18.51	18.36	18.49	18.34	18.12			
10	16QAM	25	0	18.56	18.62	18.50	18.46	18.25	20	0	
10	16QAM	25	12	18.61	18.54	18.49	18.46	18.25			
10	16QAM	25	25	18.65	18.53	18.51	18.46	18.16			
10	16QAM	50	0	18.60	18.66	18.42	18.43	18.25			
10	64QAM	1	0	18.36	18.23	18.14	18.07	18.10			
10	64QAM	1	25	18.30	18.16	18.05	18.13	18.00	20	0	
10	64QAM	1	49	18.29	18.07	18.10	18.00	18.02			
10	64QAM	25	0	18.62	18.55	18.51	18.54	18.29			
10	64QAM	25	12	18.67	18.56	18.52	18.44	18.23			
10	64QAM	25	25	18.66	18.57	18.57	18.46	18.21			
10	64QAM	50	0	18.62	18.58	18.50	18.45	18.22	Tune-up limit (dBm)	MPR (dB)	
Channel				39675	40148	40620	41093	41565			
Frequency (MHz)				2498.5	25458	2593	2640.5	2687.5			
5	QPSK	1	0	18.79	18.61	18.50	18.46	18.22	20	0	
5	QPSK	1	12	18.51	18.39	18.41	18.26	18.07			
5	QPSK	1	24	18.53	18.29	18.40	18.20	18.18			
5	QPSK	12	0	18.51	18.48	18.50	18.48	18.27			
5	QPSK	12	7	18.48	18.55	18.40	18.41	18.24			
5	QPSK	12	13	18.51	18.50	18.48	18.42	18.14	20	0	
5	QPSK	25	0	18.53	18.63	18.49	18.48	18.23			
5	16QAM	1	0	18.58	18.63	18.56	18.61	18.37			
5	16QAM	1	12	18.48	18.50	18.42	18.44	18.17			
5	16QAM	1	24	18.53	18.35	18.47	18.26	18.07			
5	16QAM	12	0	18.54	18.58	18.54	18.49	18.23	20	0	
5	16QAM	12	7	18.60	18.56	18.45	18.51	18.27			
5	16QAM	12	13	18.65	18.60	18.55	18.44	18.12			
5	16QAM	25	0	18.61	18.59	18.43	18.49	18.25			
5	64QAM	1	0	18.41	18.25	18.16	18.15	18.09			
5	64QAM	1	12	18.22	18.09	18.02	18.05	18.11	20	0	
5	64QAM	1	24	18.31	18.03	18.13	18.01	18.05			
5	64QAM	12	0	18.63	18.62	18.57	18.51	18.27			
5	64QAM	12	7	18.61	18.60	18.44	18.54	18.22			
5	64QAM	12	13	18.69	18.48	18.55	18.46	18.21			
5	64QAM	25	0	18.66	18.63	18.42	18.51	18.29			

Transmit Antenna				SISO			SISO			MIMO				
	Mode	Channel	Frequency (MHz)	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 4 Duty Cycle %	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 5 Duty Cycle %	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Ant 4+5 Duty Cycle %		
2.4GHz WLAN	802.11b 1Mbps	1	2412	Not required	14.50	Not required	14.50	Not required	Not required	17.33	17.50	100		
		6	2437		14.50		17.23			17.50				
		11	2462		14.50		17.22			17.50				
	802.11g 6Mbps	1	2412		14.50		14.50			17.50	Not required	Not required	Not required	Not required
		6	2437		14.50		14.50			17.50				
		11	2462		14.50		14.50			17.50				
	802.11n-HT20 MCS0	1	2412		14.50		14.50			17.50				
		6	2437		14.50		14.50			17.50				
		11	2462		14.50		14.50			17.50				
	802.11n-HT40 MCS0	3	2422		14.50		14.50			17.50				
		6	2437		14.50		14.50			17.50				
		9	2452		14.50		14.50			17.50				
	802.11ac-VHT20 MCS0	1	2412		14.50		14.50			17.50				
		6	2437		14.50		14.50			17.50				
		11	2462		14.50		14.50			17.50				
	802.11ac-VHT40 MCS0	3	2422		14.50		14.50			17.50				
		6	2437		14.50		14.50			17.50				
		9	2452		14.50		14.50			17.50				
	802.11ax-HE20 MCS0	1	2412		14.50		14.50			17.50				
		6	2437		14.50		14.50			17.50				
		11	2462		14.50		14.50			17.50				
	802.11ax-HE40 MCS0	3	2422		14.50		14.50			17.50				
		6	2437		14.50		14.50			17.50				
		9	2452		14.50		14.50			17.50				

Transmit Antenna				SISO			SISO			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 4 Duty Cycle %	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 5 Duty Cycle %	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Ant 4+5 Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not required	14.00	Not required	14.00	14.00	Not required	16.42	17.00	98.82
		40	5200		14.00		14.00	16.44		17.00		
		44	5220		14.00		14.00	16.50		17.00		
		48	5240		14.00		14.00	16.57		17.00		
	802.11n-HT20 MCS0	36	5180		14.00		14.00	17.00		Not required		
		40	5200		14.00		14.00	17.00				
		44	5220		14.00		14.00	17.00				
		48	5240		14.00		14.00	17.00				
	802.11n-HT40 MCS0	38	5190		13.50		13.50	16.50				
		46	5230		13.50		13.50	16.50				
		36	5180		14.00		14.00	17.00				
		40	5200		14.00		14.00	17.00				
	802.11ac-VHT20 MCS0	44	5220		14.00		14.00	17.00				
		48	5240		14.00		14.00	17.00				
		38	5190		13.50		13.50	16.50				
		46	5230		13.50		13.50	16.50				
	802.11ac-VHT40 MCS0	42	5210		13.50		13.50	16.50				
		36	5180		14.00		14.00	17.00				
		40	5200		14.00		14.00	17.00				
		44	5220		14.00		14.00	17.00				
	802.11ax-HE20 MCS0	48	5240		14.00		14.00	17.00				
		38	5190		13.50		13.50	16.50				
		46	5230		13.50		13.50	16.50				
		42	5210		13.50		13.50	16.50				

Transmit Antenna				SISO			SISO			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 4 Duty Cycle %	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 5 Duty Cycle %	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Ant 4+5 Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not required	14.00	Not required	Not required	14.00	Not required	16.61	17.00	98.82
		56	5280		14.00			16.57		17.00		
		60	5300		14.00			16.55		17.00		
		64	5320		14.00			16.57		17.00		
	802.11n-HT20 MCS0	52	5260		14.00			14.00		Not required	17.00	Not required
		56	5280		14.00			14.00			17.00	
		60	5300		14.00			14.00			17.00	
		64	5320		14.00			14.00			17.00	
	802.11n-HT40 MCS0	54	5270		13.50			13.50			16.50	
		62	5310		13.50			13.50			16.50	
	802.11ac-VHT20 MCS0	52	5260		14.00			14.00			17.00	
		56	5280		14.00			14.00			17.00	
		60	5300		14.00			14.00			17.00	
		64	5320		14.00			14.00			17.00	
	802.11ac-VHT40 MCS0	54	5270		13.50			13.50			16.50	
		62	5310		13.50			13.50			16.50	
	802.11ac-VHT80 MCS0	58	5290		13.50			13.50			16.50	
		50	5250		14.00			14.00			17.00	
	802.11ax-HE20 MCS0	52	5260		14.00			14.00			17.00	
		56	5280		14.00			14.00			17.00	
		60	5300		14.00			14.00			17.00	
		64	5320		14.00			14.00			17.00	
	802.11ax-HE40 MCS0	54	5270		13.50			13.50			16.50	
		62	5310		13.50			13.50			16.50	
	802.11ax-HE80 MCS0	58	5290		13.50			13.50			16.50	

Transmit Antenna				SISO			SISO			MIMO				
	Mode	Channel	Frequency (MHz)	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 4 Duty Cycle %	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 5 Duty Cycle %	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Ant 4+5 Duty Cycle %		
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not required	15.50	Not required	Not required	15.50	Not required	18.49	18.50	98.82		
		116	5580		15.50			15.50		18.37	18.50			
		124	5620		15.50			15.50		18.37	18.50			
		132	5660		15.50			15.50		17.68	18.50			
		140	5700		15.50			15.50		17.82	18.50			
		144	5720		15.50			15.50		18.48	18.50			
	802.11n-HT20 MCS0	100	5500		15.50			15.50		Not required	18.50	Not required	18.50	Not required
		116	5580		15.50			15.50			18.50			
		124	5620		15.50			15.50			18.50			
		132	5660		15.50			15.50			18.50			
		140	5700		15.50			15.50			18.50			
		144	5720		15.50			15.50			18.50			
	802.11n-HT40 MCS0	102	5510		15.00			15.00			18.00			
		110	5550		15.00			15.00			18.00			
		126	5630		15.00			15.00			18.00			
		134	5670		15.00			15.00			18.00			
		142	5710		15.00			15.00			18.00			
		100	5500		15.50			15.50			18.50			
	802.11ac-VHT20 MCS0	116	5580		15.50			15.50			18.50			
		124	5620		15.50			15.50			18.50			
		132	5660		15.50			15.50			18.50			
		140	5700		15.50			15.50			18.50			
		144	5720		15.50			15.50			18.50			
		102	5510		15.00			15.00			18.00			
	802.11ac-VHT40 MCS0	110	5550		15.00			15.00			18.00			
		126	5630		15.00			15.00			18.00			
		134	5670		15.00			15.00			18.00			
		142	5710		15.00			15.00			18.00			
		802.11ac-VHT80 MCS0	106		5530			15.00			15.00		18.00	
			122		5610			15.00			15.00		18.00	
	138		5690		15.00			15.00			18.00			
	802.11ac-VHT160 MCS0	114	5570		15.50			15.50			18.50			
		100	5500		15.50			15.50			18.50			
		116	5580		15.50			15.50			18.50			
	802.11ax-HE20 MCS0	124	5620		15.50			15.50			18.50			
		132	5660		15.50			15.50			18.50			
		140	5700		15.50			15.50			18.50			
		144	5720		15.50			15.50			18.50			
		102	5510		15.00			15.00			18.00			
		110	5550		15.00			15.00			18.00			
	802.11ax-HE40 MCS0	126	5630		15.00			15.00			18.00			
		134	5670		15.00			15.00			18.00			
		142	5710		15.00			15.00			18.00			
		106	5530		15.00			15.00			18.00			
		122	5610		15.00			15.00			18.00			
		138	5690		15.00			15.00			18.00			

Transmit Antenna				SISO			SISO			MIMO				
	Mode	Channel	Frequency (MHz)	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 4 Duty Cycle %	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 5 Duty Cycle %	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Ant 4+5 Duty Cycle %		
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	16.00	Not required	Not required	16.00	Not required	18.51	19.00	98.82		
		157	5785		16.00			16.00		18.85	19.00			
		165	5825		16.00			16.00		18.88	19.00			
	802.11n-HT20 MCS0	149	5745		16.00			16.00		Not required	19.00	Not required	19.00	Not required
		157	5785		16.00			16.00			19.00			
		165	5825		16.00			16.00			19.00			
	802.11n-HT40 MCS0	151	5755		15.50			15.50			18.50			
		159	5795		15.50			15.50			18.50			
		149	5745		16.00			16.00			19.00			
	802.11ac-VHT20 MCS0	157	5785		16.00			16.00			19.00			
		165	5825		16.00			16.00			19.00			
		151	5755		15.50			15.50			18.50			
	802.11ac-VHT40 MCS0	159	5795		15.50			15.50			18.50			
		155	5775		15.50			15.50			18.50			
		149	5745		16.00			16.00			19.00			
	802.11ax-HE20 MCS0	157	5785		16.00			16.00			19.00			
		165	5825		16.00			16.00			19.00			
		151	5755		15.50			15.50			18.50			
	802.11ax-HE40 MCS0	159	5795		15.50			15.50			18.50			
		155	5775		15.50			15.50			18.50			
		149	5745		16.00			16.00			19.00			



Transmit Antenna				SISO			SISO			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 4 Duty Cycle %	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 5 Duty Cycle %	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Ant 4+5 Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	Not required	12.00	Not required	Not required	12.00	Not required	14.61	15.00	100
		6	2437		12.00			12.00		14.28	15.00	
		11	2462		12.00			12.00		14.35	15.00	
	802.11g 6Mbps	1	2412		12.00			12.00		Not required	15.00	Not required
		6	2437		12.00			12.00			15.00	
		11	2462		12.00			12.00			15.00	
	802.11n-HT20 MCS0	1	2412		12.00			12.00			15.00	
		6	2437		12.00			12.00			15.00	
		11	2462		12.00			12.00			15.00	
	802.11n-HT40 MCS0	3	2422		12.00			12.00			15.00	
		6	2437		12.00			12.00			15.00	
		9	2452		12.00			12.00			15.00	
	802.11ac-VHT20 MCS0	1	2412		12.00			12.00			15.00	
		6	2437		12.00			12.00			15.00	
		11	2462		12.00			12.00			15.00	
	802.11ac-VHT40 MCS0	3	2422		12.00			12.00			15.00	
		6	2437		12.00			12.00			15.00	
		9	2452		12.00			12.00			15.00	
	802.11ax-HE20 MCS0	1	2412		12.00			12.00			15.00	
		6	2437		12.00			12.00			15.00	
		11	2462		12.00			12.00			15.00	
	802.11ax-HE40 MCS0	3	2422		12.00			12.00			15.00	
		6	2437		12.00			12.00			15.00	
		9	2452		12.00			12.00			15.00	

Transmit Antenna				SISO			SISO			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 4 Duty Cycle %	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 5 Duty Cycle %	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Ant 4+5 Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not required	12.00	Not required	Not required	12.00	Not required	Not required	15.00	Not required
		40	5200		12.00			12.00			15.00	
		44	5220		12.00			12.00			15.00	
		48	5240		12.00			12.00			15.00	
	802.11n-HT20 MCS0	36	5180		12.00			12.00			15.00	
		40	5200		12.00			12.00			15.00	
		44	5220		12.00			12.00			15.00	
		48	5240		12.00			12.00			15.00	
	802.11n-HT40 MCS0	38	5190		12.00			12.00			15.00	
		46	5230		12.00			12.00			15.00	
		36	5180		12.00			12.00			15.00	
	802.11ac-VHT20 MCS0	40	5200		12.00			12.00			15.00	
		44	5220		12.00			12.00			15.00	
		48	5240		12.00			12.00			15.00	
	802.11ac-VHT40 MCS0	38	5190		12.00			12.00			15.00	
		46	5230		12.00			12.00			15.00	
	802.11ac-VHT80 MCS0	42	5210		12.00			12.00		14.42	15.00	100
		36	5180		12.00			12.00		Not required	15.00	Not required
	802.11ax-HE20 MCS0	40	5200		12.00			12.00			15.00	
		44	5220		12.00			12.00			15.00	
		48	5240		12.00			12.00			15.00	
	802.11ax-HE40 MCS0	38	5190		12.00			12.00			15.00	
		46	5230		12.00			12.00			15.00	
	802.11ax-HE80 MCS0	42	5210		12.00			12.00			15.00	

Transmit Antenna				SISO			SISO			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 4 Duty Cycle %	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 5 Duty Cycle %	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Ant 4+5 Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	12.00	Not required	Not required	12.00	Not required	Not required	15.00	Not required
		157	5785		12.00			12.00			15.00	
		165	5825		12.00			12.00			15.00	
	802.11n-HT20 MCS0	149	5745		12.00			12.00			15.00	
		157	5785		12.00			12.00			15.00	
		165	5825		12.00			12.00			15.00	
	802.11n-HT40 MCS0	151	5755		12.00			12.00			15.00	
		159	5795		12.00			12.00			15.00	
	802.11ac-VHT20 MCS0	149	5745		12.00			12.00			15.00	
		157	5785		12.00			12.00			15.00	
		165	5825		12.00			12.00			15.00	
	802.11ac-VHT40 MCS0	151	5755		12.00			12.00			15.00	
		159	5795		12.00			12.00			15.00	
	802.11ac-VHT80 MCS0	155	5775		12.00			12.00		14.60	15.00	100
	802.11ax-HE20 MCS0	149	5745		12.00			12.00		Not required	15.00	Not required
		157	5785		12.00			12.00			15.00	
		165	5825		12.00			12.00			15.00	
	802.11ax-HE40 MCS0	151	5755		12.00			12.00			15.00	
		159	5795		12.00			12.00			15.00	
	802.11ax-HE80 MCS0	155	5775		12.00			12.00			15.00	



Transmit Antenna				SISO			SISO			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 4 Duty Cycle %	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 5 Duty Cycle %	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Ant 4+5 Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	Not required	16.00	Not required	Not required	16.00	Not required	18.28	19.00	100.00
		6	2437		16.00			16.00		18.07	19.00	
		11	2462		16.00			16.00		18.08	19.00	
	802.11g 6Mbps	1	2412		16.00			16.00		Not required	19.00	Not required
		6	2437		16.00			16.00			19.00	
		11	2462		16.00			16.00			19.00	
	802.11n-HT20 MCS0	1	2412		16.00			16.00			19.00	
		6	2437		16.00			16.00			19.00	
		11	2462		16.00			16.00			19.00	
	802.11n-HT40 MCS0	3	2422		16.00			16.00			19.00	
		6	2437		16.00			16.00			19.00	
		9	2452		16.00			16.00			19.00	
	802.11ac-VHT20 MCS0	1	2412		16.00			16.00			19.00	
		6	2437		16.00			16.00			19.00	
		11	2462		16.00			16.00			19.00	
	802.11ac-VHT40 MCS0	3	2422		16.00			16.00			19.00	
		6	2437		16.00			16.00			19.00	
		9	2452		16.00			16.00			19.00	
	802.11ax-HE20 MCS0	1	2412		16.00			16.00			19.00	
		6	2437		16.00			16.00			19.00	
		11	2462		16.00			16.00			19.00	
	802.11ax-HE40 MCS0	3	2422		16.00			16.00			19.00	
		6	2437		16.00			16.00			19.00	
		9	2452		16.00			16.00			19.00	

Transmit Antenna				SISO			SISO			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 4 Duty Cycle %	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 5 Duty Cycle %	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Ant 4+5 Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not required	15.00	Not required	Not required	15.00	Not required	Not required	18.00	Not required
		40	5200		15.00			15.00			18.00	
		44	5220		15.00			15.00			18.00	
		48	5240		15.00			15.00			18.00	
	802.11n-HT20 MCS0	36	5180		15.00			15.00			18.00	
		40	5200		15.00			15.00			18.00	
		44	5220		15.00			15.00			18.00	
		48	5240		15.00			15.00			18.00	
	802.11n-HT40 MCS0	38	5190		15.00			15.00			18.00	
		46	5230		15.00			15.00			18.00	
		36	5180		15.00			15.00			18.00	
	802.11ac-VHT20 MCS0	40	5200		15.00			15.00			18.00	
		44	5220		15.00			15.00			18.00	
		48	5240		15.00			15.00			18.00	
	802.11ac-VHT40 MCS0	38	5190		15.00			15.00			18.00	
		46	5230		15.00			15.00			18.00	
	802.11ac-VHT80 MCS0	42	5210		15.00			15.00			18.00	
		36	5180		15.00			15.00			18.00	
	802.11ax-HE20 MCS0	40	5200		15.00			15.00			18.00	
		44	5220		15.00			15.00			18.00	
		48	5240		15.00			15.00			18.00	
	802.11ax-HE40 MCS0	38	5190		15.00			15.00			18.00	
		46	5230		15.00			15.00			18.00	
	802.11ax-HE80 MCS0	42	5210		15.00			15.00			18.00	

Transmit Antenna				SISO			SISO			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 4 Duty Cycle %	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 5 Duty Cycle %	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Ant 4+5 Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not required	15.00	Not required	Not required	15.00	Not required	Not required	18.00	Not required
		56	5280		15.00			15.00			18.00	
		60	5300		15.00			15.00			18.00	
		64	5320		15.00			15.00			18.00	
	802.11n-HT20 MCS0	52	5260		15.00			15.00			18.00	
		56	5280		15.00			15.00			18.00	
		60	5300		15.00			15.00			18.00	
		64	5320		15.00			15.00			18.00	
	802.11n-HT40 MCS0	54	5270		15.00			15.00			18.00	
		62	5310		15.00			15.00			18.00	
	802.11ac-VHT20 MCS0	52	5260		15.00			15.00			18.00	
		56	5280		15.00			15.00			18.00	
		60	5300		15.00			15.00			18.00	
		64	5320		15.00			15.00			18.00	
	802.11ac-VHT40 MCS0	54	5270		15.00			15.00			18.00	
		62	5310		15.00			15.00			18.00	
	802.11ac-VHT80 MCS0	58	5290		15.00			15.00		16.79	18.00	100
	802.11ax-HE20 MCS0	52	5260		15.00			15.00		Not required	18.00	Not required
		56	5280		15.00			15.00			18.00	
		60	5300		15.00			15.00			18.00	
		64	5320		15.00			15.00			18.00	
	802.11ax-HE40 MCS0	54	5270		15.00			15.00			18.00	
		62	5310		15.00			15.00			18.00	
	802.11ax-HE80 MCS0	58	5290		15.00			15.00			18.00	



Transmit Antenna				SISO			SISO			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 4 Duty Cycle %	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 5 Duty Cycle %	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Ant 4+5 Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not required	15.00	Not required	Not required	15.00	Not required	Not required	18.00	Not required
		116	5580		15.00			15.00			18.00	
		124	5620		15.00			15.00			18.00	
		132	5660		15.00			15.00			18.00	
		140	5700		15.00			15.00			18.00	
		144	5720		15.00			15.00			18.00	
	802.11n-HT20 MCS0	100	5500		15.00			15.00			18.00	
		116	5580		15.00			15.00			18.00	
		124	5620		15.00			15.00			18.00	
		132	5660		15.00			15.00			18.00	
		140	5700		15.00			15.00			18.00	
		144	5720		15.00			15.00			18.00	
	802.11n-HT40 MCS0	102	5510		15.00			15.00			18.00	
		110	5550		15.00			15.00			18.00	
		126	5630		15.00			15.00			18.00	
		134	5670		15.00			15.00			18.00	
	802.11ac-VHT20 MCS0	142	5710		15.00			15.00			18.00	
		100	5500		15.00			15.00			18.00	
		116	5580		15.00			15.00			18.00	
		124	5620		15.00			15.00			18.00	
		132	5660		15.00			15.00			18.00	
		140	5700		15.00			15.00			18.00	
	802.11ac-VHT40 MCS0	144	5720		15.00			15.00			18.00	
		102	5510		15.00			15.00			18.00	
		110	5550		15.00			15.00			18.00	
		126	5630		15.00			15.00			18.00	
		134	5670		15.00			15.00			18.00	
		142	5710		15.00			15.00			18.00	
	802.11ac-VHT80 MCS0	106	5530		15.00			15.00		17.15	18.00	100
		122	5610		15.00			15.00		16.81	18.00	
		138	5690		15.00			15.00		16.38	18.00	
	802.11ac-VHT160 MCS0	114	5570		15.00			15.00		18.00	Not required	Not required
100		5500	15.00	15.00	18.00							
116		5580	15.00	15.00	18.00							
124		5620	15.00	15.00	18.00							
132		5660	15.00	15.00	18.00							
140		5700	15.00	15.00	18.00							
802.11ax-HE20 MCS0	144	5720	15.00	15.00	18.00							
	102	5510	15.00	15.00	18.00							
	110	5550	15.00	15.00	18.00							
	126	5630	15.00	15.00	18.00							
	134	5670	15.00	15.00	18.00							
	142	5710	15.00	15.00	18.00							
802.11ax-HE40 MCS0	106	5530	15.00	15.00	18.00							
	122	5610	15.00	15.00	18.00							
	138	5690	15.00	15.00	18.00							
						18.00						

Transmit Antenna				SISO			SISO			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 4 Duty Cycle %	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 5 Duty Cycle %	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Ant 4+5 Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	15.00	Not required	Not required	15.00	Not required	Not required	18.00	Not required
		157	5785		15.00			15.00			18.00	
		165	5825		15.00			15.00			18.00	
	802.11n-HT20 MCS0	149	5745		15.00			15.00			18.00	
		157	5785		15.00			15.00			18.00	
		165	5825		15.00			15.00			18.00	
	802.11n-HT40 MCS0	151	5755		15.00			15.00			18.00	
		159	5795		15.00			15.00			18.00	
		167	5835		15.00			15.00			18.00	
	802.11ac-VHT20 MCS0	149	5745		15.00			15.00			18.00	
		157	5785		15.00			15.00			18.00	
		165	5825		15.00			15.00			18.00	
	802.11ac-VHT40 MCS0	151	5755		15.00			15.00			18.00	
		159	5795		15.00			15.00			18.00	
		167	5835		15.00			15.00			18.00	
	802.11ac-VHT80 MCS0	155	5775		15.00			15.00			16.97	
		149	5745		15.00			15.00		16.54	18.00	
		163	5815		15.00			15.00		16.11	18.00	
	802.11ax-HE20 MCS0	149	5745		15.00			15.00		Not required	18.00	Not required
		157	5785		15.00			15.00			18.00	
165		5825	15.00	15.00	18.00							
802.11ax-HE40 MCS0	151	5755	15.00	15.00	18.00							
	159	5795	15.00	15.00	18.00							
	167	5835	15.00	15.00	18.00							
802.11ax-HE80 MCS0	155	5775	15.00	15.00	18.00							
	163	5815	15.00	15.00	18.00							
	171	5855	15.00	15.00	18.00							

Ant 4					
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	13.38	10.74	10.86
	CH 39	2441	14.33	11.87	11.90
	CH 78	2480	13.96	11.53	11.62
Tune-up Limit			14.50	12.00	12.00

Ant 4					
Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-up Limit
			1Mbps	2Mbps	
LE	CH 00	2402	3.19	3.29	5.00
	CH 19	2440	4.99	5.09	6.50
	CH 39	2480	3.79	3.89	5.00

Ant 5					
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	12.45	9.60	10.04
	CH 39	2441	13.33	10.69	10.83
	CH 78	2480	14.04	11.59	11.62
Tune-up Limit			14.50	12.00	12.00

Ant 5					
Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-up Limit
			1Mbps	2Mbps	
LE	CH 00	2402	2.49	2.59	5.00
	CH 19	2440	4.59	4.69	6.50
	CH 39	2480	4.39	4.49	5.00