

Appendix D. Output Power Measurement

GSM1900_Ant 2_Index 2	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	29.81	29.90	29.69	30.50	20.81	20.90	20.69	21.50
GPRS 1 Tx slot	29.87	29.95	29.71	30.50	20.87	20.95	20.71	21.50
GPRS 2 Tx slots	28.93	28.67	28.62	29.50	22.93	22.67	22.62	23.50
GPRS 3 Tx slots	28.01	28.49	28.45	29.00	23.75	24.23	24.19	24.74
GPRS 4 Tx slots	26.61	26.62	26.63	28.00	23.61	23.62	23.63	25.00
EDGE 1 Tx slot	25.09	25.07	24.92	26.00	16.09	16.07	15.92	17.00
EDGE 2 Tx slots	23.94	23.80	23.94	25.00	17.94	17.80	17.94	19.00
EDGE 3 Tx slots	23.77	23.61	23.49	25.00	19.51	19.35	19.23	20.74
EDGE 4 Tx slots	22.46	22.31	22.42	24.00	19.46	19.31	19.42	21.00

GSM1900_Ant 2_Index 3	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	29.81	29.90	29.69	30.50	20.81	20.90	20.69	21.50
GPRS 1 Tx slot	29.87	29.95	29.71	30.50	20.87	20.95	20.71	21.50
GPRS 2 Tx slots	28.93	28.67	28.62	29.50	22.93	22.67	22.62	23.50
GPRS 3 Tx slots	28.01	28.49	28.45	28.70	23.75	24.23	24.19	24.44
GPRS 4 Tx slots	26.61	26.62	26.63	27.50	23.61	23.62	23.63	24.50
EDGE 1 Tx slot	25.09	25.07	24.92	26.00	16.09	16.07	15.92	17.00
EDGE 2 Tx slots	23.94	23.80	23.94	25.00	17.94	17.80	17.94	19.00
EDGE 3 Tx slots	23.77	23.61	23.49	25.00	19.51	19.35	19.23	20.74
EDGE 4 Tx slots	22.46	22.31	22.42	24.00	19.46	19.31	19.42	21.00

GSM1900_Ant 2_Index 4	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	29.77	29.84	29.65	30.30	20.77	20.84	20.65	21.30
GPRS 1 Tx slot	29.87	29.85	29.64	30.30	20.87	20.85	20.64	21.30
GPRS 2 Tx slots	26.75	26.73	26.53	27.30	20.75	20.73	20.53	21.30
GPRS 3 Tx slots	25.02	25.35	25.31	25.50	20.76	21.09	21.05	21.24
GPRS 4 Tx slots	24.16	24.15	24.18	24.30	21.16	21.15	21.18	21.30
EDGE 1 Tx slot	25.01	25.03	24.87	26.00	16.01	16.03	15.87	17.00
EDGE 2 Tx slots	23.94	23.73	23.84	25.00	17.94	17.73	17.84	19.00
EDGE 3 Tx slots	23.73	23.60	23.42	25.00	19.47	19.34	19.16	20.74
EDGE 4 Tx slots	22.36	22.22	22.38	24.00	19.36	19.22	19.38	21.00

GSM1900_Ant 2_Index 5	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	29.77	29.84	29.65	30.50	20.77	20.84	20.65	21.50
GPRS 1 Tx slot	29.87	29.85	29.64	30.50	20.87	20.85	20.64	21.50
GPRS 2 Tx slots	27.87	27.63	27.62	28.10	21.87	21.63	21.62	22.10
GPRS 3 Tx slots	25.51	25.97	25.94	26.30	21.25	21.71	21.68	22.04
GPRS 4 Tx slots	24.47	24.48	24.49	25.10	21.47	21.48	21.49	22.10
EDGE 1 Tx slot	25.01	25.03	24.87	26.00	16.01	16.03	15.87	17.00
EDGE 2 Tx slots	23.94	23.73	23.84	25.00	17.94	17.73	17.84	19.00
EDGE 3 Tx slots	23.73	23.60	23.42	25.00	19.47	19.34	19.16	20.74
EDGE 4 Tx slots	22.36	22.22	22.38	24.00	19.36	19.22	19.38	21.00

GSM1900_Ant 2_Index 6	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	29.77	29.84	29.65	30.30	20.77	20.84	20.65	21.30
GPRS 1 Tx slot	29.87	29.85	29.64	30.30	20.87	20.85	20.64	21.30
GPRS 2 Tx slots	26.75	26.73	26.53	27.30	20.75	20.73	20.53	21.30
GPRS 3 Tx slots	25.02	25.35	25.31	25.50	20.76	21.09	21.05	21.24
GPRS 4 Tx slots	24.16	24.15	24.18	24.30	21.16	21.15	21.18	21.30
EDGE 1 Tx slot	25.01	25.03	24.87	26.00	16.01	16.03	15.87	17.00
EDGE 2 Tx slots	23.94	23.73	23.84	25.00	17.94	17.73	17.84	19.00
EDGE 3 Tx slots	23.73	23.60	23.42	25.00	19.47	19.34	19.16	20.74
EDGE 4 Tx slots	22.36	22.22	22.38	24.00	19.36	19.22	19.38	21.00

GSM1900_Ant 0_Index 2/3/5/6	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	28.85	28.90	28.86	30.00	19.85	19.90	19.86	21.00
GPRS 1 Tx slot	28.89	28.93	28.93	30.00	19.89	19.93	19.93	21.00
GPRS 2 Tx slots	28.65	28.61	28.59	29.50	22.65	22.61	22.59	23.50
GPRS 3 Tx slots	27.17	27.89	27.86	28.50	22.91	23.63	23.60	24.24
GPRS 4 Tx slots	26.03	26.22	26.10	27.50	23.03	23.22	23.10	24.50
EDGE 1 Tx slot	24.90	24.92	25.12	26.00	15.90	15.92	16.12	17.00
EDGE 2 Tx slots	23.36	23.56	23.45	24.50	17.36	17.56	17.45	18.50
EDGE 3 Tx slots	23.28	23.28	23.11	24.50	19.02	19.02	18.85	20.24
EDGE 4 Tx slots	21.94	21.78	21.62	23.50	18.94	18.78	18.62	20.50

GSM1900_Ant 0_Index 4	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	28.85	28.90	28.86	30.00	19.85	19.90	19.86	21.00
GPRS 1 Tx slot	28.89	28.93	28.93	30.00	19.89	19.93	19.93	21.00
GPRS 2 Tx slots	28.65	28.61	28.59	29.50	22.65	22.61	22.59	23.50
GPRS 3 Tx slots	27.17	27.89	27.86	28.50	22.91	23.63	23.60	24.24
GPRS 4 Tx slots	26.03	26.22	26.10	27.40	23.03	23.22	23.10	24.40
EDGE 1 Tx slot	24.90	24.92	25.12	26.00	15.90	15.92	16.12	17.00
EDGE 2 Tx slots	23.36	23.56	23.45	24.50	17.36	17.56	17.45	18.50
EDGE 3 Tx slots	23.28	23.28	23.11	24.50	19.02	19.02	18.85	20.24
EDGE 4 Tx slots	21.94	21.78	21.62	23.50	18.94	18.78	18.62	20.50



Band		WCDMA II_Ant 0_Index 2			Tune-up Limit (dBm)	WCDMA IV_Ant 0_Index 2			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 2			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	23.37	23.62	23.77	24.50	23.88	24.07	24.22	25.20	21.18	21.00	21.02	22.40
3GPP Rel 99	RMC 12.2Kbps	23.40	23.65	23.79	24.50	23.90	24.09	24.25	25.20	21.20	21.24	21.17	22.40
3GPP Rel 6	HSDPA Subtest-1	23.49	23.47	23.48	23.50	23.66	23.67	23.67	24.20	21.15	21.18	21.15	22.40
3GPP Rel 6	HSDPA Subtest-2	23.42	23.43	23.45	23.50	23.39	23.53	23.59	24.20	21.14	21.08	21.13	22.40
3GPP Rel 6	HSDPA Subtest-3	22.97	22.94	22.98	23.00	22.93	23.11	23.05	23.70	21.23	21.20	21.18	22.40
3GPP Rel 6	HSDPA Subtest-4	22.55	22.25	22.31	23.00	22.96	23.04	23.04	23.70	21.19	21.20	21.19	22.40
3GPP Rel 6	HSUPA Subtest-1	22.41	22.43	22.90	23.50	22.88	23.05	23.13	24.20	21.13	21.19	21.18	22.40
3GPP Rel 6	HSUPA Subtest-2	21.38	21.08	20.33	21.50	20.32	20.51	22.19	22.20	20.96	20.64	20.78	21.50
3GPP Rel 6	HSUPA Subtest-3	22.48	21.13	21.01	22.50	21.86	22.05	22.09	23.20	21.17	21.18	21.18	22.40
3GPP Rel 6	HSUPA Subtest-4	21.45	21.49	21.44	21.50	20.41	22.15	22.19	22.20	20.48	20.73	20.18	21.50
3GPP Rel 6	HSUPA Subtest-5	23.50	23.40	21.80	23.50	24.00	24.20	24.20	24.20	21.19	21.17	21.19	22.40

Band		WCDMA II_Ant 0_Index 3			Tune-up Limit (dBm)	WCDMA IV_Ant 0_Index 3			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 3			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	23.37	23.62	23.77	23.80	23.88	24.07	24.22	25.20	21.18	21.00	21.02	21.60
3GPP Rel 99	RMC 12.2Kbps	23.40	23.65	23.79	23.80	23.90	24.09	24.25	25.20	21.20	21.24	21.17	21.60
3GPP Rel 6	HSDPA Subtest-1	23.49	23.47	23.48	23.50	23.66	23.67	23.67	24.20	21.15	21.18	21.15	21.60
3GPP Rel 6	HSDPA Subtest-2	23.42	23.43	23.45	23.50	23.39	23.53	23.59	24.20	21.14	21.08	21.13	21.60
3GPP Rel 6	HSDPA Subtest-3	22.97	22.94	22.98	23.00	22.93	23.11	23.05	23.70	21.23	21.20	21.18	21.60
3GPP Rel 6	HSDPA Subtest-4	22.55	22.25	22.31	23.00	22.96	23.04	23.04	23.70	21.19	21.20	21.19	21.60
3GPP Rel 6	HSUPA Subtest-1	22.41	22.43	22.90	23.50	22.88	23.05	23.13	24.20	21.13	21.19	21.18	21.60
3GPP Rel 6	HSUPA Subtest-2	21.38	21.08	20.33	21.50	20.32	20.51	22.19	22.20	20.96	20.64	20.78	21.50
3GPP Rel 6	HSUPA Subtest-3	22.48	21.13	21.01	22.50	21.86	22.05	22.09	23.20	21.17	21.18	21.18	21.60
3GPP Rel 6	HSUPA Subtest-4	21.45	21.49	21.44	21.50	20.41	22.15	22.19	22.20	20.48	20.73	20.18	21.50
3GPP Rel 6	HSUPA Subtest-5	23.50	23.40	21.80	23.50	24.00	24.20	24.20	24.20	21.19	21.17	21.19	21.60

Band		WCDMA II_Ant 0_Index 4			Tune-up Limit (dBm)	WCDMA IV_Ant 0_Index 4			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 4			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	23.37	23.62	23.77	24.50	23.26	23.46	23.55	23.80	23.62	23.40	23.44	24.50
3GPP Rel 99	RMC 12.2Kbps	23.40	23.65	23.79	24.50	23.29	23.44	23.56	23.80	23.64	23.41	23.46	24.50
3GPP Rel 6	HSDPA Subtest-1	23.49	23.47	23.48	23.50	23.25	23.44	23.50	23.80	23.50	23.37	23.40	23.50
3GPP Rel 6	HSDPA Subtest-2	23.42	23.43	23.45	23.50	23.32	23.47	23.53	23.80	23.47	23.18	23.26	23.50
3GPP Rel 6	HSDPA Subtest-3	22.97	22.94	22.98	23.00	22.90	23.03	22.99	23.30	22.49	22.69	22.76	23.00
3GPP Rel 6	HSDPA Subtest-4	22.55	22.25	22.31	23.00	22.90	23.01	23.02	23.30	22.08	22.21	22.26	23.00
3GPP Rel 6	HSUPA Subtest-1	22.41	22.43	22.90	23.50	22.88	22.96	23.13	23.80	22.61	22.51	22.51	23.50
3GPP Rel 6	HSUPA Subtest-2	21.38	21.08	20.33	21.50	20.25	20.43	21.57	21.80	20.99	20.78	20.84	21.50
3GPP Rel 6	HSUPA Subtest-3	22.48	21.13	21.01	22.50	21.76	21.95	22.00	22.80	21.55	21.88	21.54	22.50
3GPP Rel 6	HSUPA Subtest-4	21.45	21.49	21.44	21.50	20.34	21.45	21.51	21.80	20.52	20.83	20.24	21.50
3GPP Rel 6	HSUPA Subtest-5	23.50	23.40	21.80	23.50	23.30	23.50	23.50	23.80	23.40	23.50	23.00	23.50

Band		WCDMA II_Ant 0_Index 5			Tune-up Limit (dBm)	WCDMA IV_Ant 0_Index 5			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 5			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	23.37	23.62	23.77	24.50	23.88	24.07	24.22	25.20	23.62	23.40	23.44	24.50
3GPP Rel 99	RMC 12.2Kbps	23.40	23.65	23.79	24.50	23.90	24.09	24.25	25.20	23.64	23.41	23.46	24.50
3GPP Rel 6	HSDPA Subtest-1	23.49	23.47	23.48	23.50	23.66	23.67	23.67	24.20	23.50	23.37	23.40	23.50
3GPP Rel 6	HSDPA Subtest-2	23.42	23.43	23.45	23.50	23.39	23.53	23.59	24.20	23.47	23.18	23.26	23.50
3GPP Rel 6	HSDPA Subtest-3	22.97	22.94	22.98	23.00	22.93	23.11	23.05	23.70	22.49	22.69	22.76	23.00
3GPP Rel 6	HSDPA Subtest-4	22.55	22.25	22.31	23.00	22.96	23.04	23.04	23.70	22.08	22.21	22.26	23.00
3GPP Rel 6	HSUPA Subtest-1	22.41	22.43	22.90	23.50	22.88	23.05	23.13	24.20	22.61	22.51	22.51	23.50
3GPP Rel 6	HSUPA Subtest-2	21.38	21.08	20.33	21.50	20.32	20.51	22.19	22.20	20.99	20.78	20.84	21.50
3GPP Rel 6	HSUPA Subtest-3	22.48	21.13	21.01	22.50	21.86	22.05	22.09	23.20	21.55	21.88	21.54	22.50
3GPP Rel 6	HSUPA Subtest-4	21.45	21.49	21.44	21.50	20.41	22.15	22.19	22.20	20.52	20.83	20.24	21.50
3GPP Rel 6	HSUPA Subtest-5	23.50	23.40	21.80	23.50	24.00	24.20	24.20	24.20	23.40	23.50	23.00	23.50

Band		WCDMA II_Ant 0_Index 6			Tune-up Limit (dBm)	WCDMA IV_Ant 0_Index 6			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 6			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	23.37	23.62	23.77	24.50	23.26	23.46	23.55	23.80	23.62	23.40	23.44	24.50
3GPP Rel 99	RMC 12.2Kbps	23.40	23.65	23.79	24.50	23.29	23.44	23.56	23.80	23.64	23.41	23.46	24.50
3GPP Rel 6	HSDPA Subtest-1	23.49	23.47	23.48	23.50	23.25	23.44	23.50	23.80	23.50	23.37	23.40	23.50
3GPP Rel 6	HSDPA Subtest-2	23.42	23.43	23.45	23.50	23.32	23.47	23.53	23.80	23.47	23.18	23.26	23.50
3GPP Rel 6	HSDPA Subtest-3	22.97	22.94	22.98	23.00	22.90	23.03	22.99	23.30	22.49	22.69	22.76	23.00
3GPP Rel 6	HSDPA Subtest-4	22.55	22.25	22.31	23.00	22.90	23.01	23.02	23.30	22.08	22.21	22.26	23.00
3GPP Rel 6	HSUPA Subtest-1	22.41	22.43	22.90	23.50	22.88	22.96	23.13	23.80	22.61	22.51	22.51	23.50
3GPP Rel 6	HSUPA Subtest-2	21.38	21.08	20.33	21.50	20.25	20.43	21.57	21.80	20.99	20.78	20.84	21.50
3GPP Rel 6	HSUPA Subtest-3	22.48	21.13	21.01	22.50	21.76	21.95	22.00	22.80	21.55	21.88	21.54	22.50
3GPP Rel 6	HSUPA Subtest-4	21.45	21.49	21.44	21.50	20.34	21.45	21.51	21.80	20.52	20.83	20.24	21.50
3GPP Rel 6	HSUPA Subtest-5	23.50	23.40	21.80	23.50	23.30	23.50	23.50	23.80	23.40	23.50	23.00	23.50

Band		WCDMA II_Ant 2_Index 2			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 2			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 2			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	24.22	24.21	24.23	25.00	24.22	24.61	24.66	25.70	23.94	23.96	24.02	25.00
3GPP Rel 99	RMC 12.2Kbps	24.24	24.29	24.30	25.00	24.26	24.65	24.71	25.70	23.95	23.98	24.05	25.00
3GPP Rel 6	HSDPA Subtest-1	23.99	23.98	23.99	24.00	24.22	24.54	24.41	24.70	23.99	23.89	24.00	24.00
3GPP Rel 6	HSDPA Subtest-2	23.98	23.95	23.98	24.00	24.10	24.39	24.33	24.70	24.00	23.48	23.80	24.00
3GPP Rel 6	HSDPA Subtest-3	23.44	23.44	23.49	23.50	23.60	23.86	23.80	24.20	23.30	23.07	23.05	23.50
3GPP Rel 6	HSDPA Subtest-4	23.20	23.08	23.00	23.50	23.63	23.89	23.77	24.20	22.78	22.52	22.56	23.50
3GPP Rel 6	HSUPA Subtest-1	23.34	23.36	23.33	24.00	23.66	24.21	23.93	24.70	22.45	22.29	22.20	24.00
3GPP Rel 6	HSUPA Subtest-2	21.25	21.28	21.27	22.00	21.59	22.12	21.92	22.70	20.52	20.31	20.29	22.00
3GPP Rel 6	HSUPA Subtest-3	21.81	21.84	21.80	23.00	22.07	22.67	22.46	23.70	21.55	21.33	21.34	23.00
3GPP Rel 6	HSUPA Subtest-4	20.80	20.80	20.75	22.00	21.90	22.12	21.51	22.70	20.40	20.35	20.32	22.00
3GPP Rel 6	HSUPA Subtest-5	23.88	23.80	23.90	24.00	24.56	24.60	24.65	24.70	23.60	23.62	23.40	24.00

Band		WCDMA II_Ant 2_Index 3			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 3			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 3			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	24.22	24.21	24.23	25.00	24.22	24.61	24.66	25.10	23.94	23.96	24.02	25.00
3GPP Rel 99	RMC 12.2Kbps	24.24	24.29	24.30	25.00	24.26	24.65	24.71	25.10	23.95	23.98	24.05	25.00
3GPP Rel 6	HSDPA Subtest-1	23.99	23.98	23.99	24.00	24.22	24.54	24.41	24.70	23.99	23.89	24.00	24.00
3GPP Rel 6	HSDPA Subtest-2	23.98	23.95	23.98	24.00	24.10	24.39	24.33	24.70	24.00	23.48	23.80	24.00
3GPP Rel 6	HSDPA Subtest-3	23.44	23.44	23.49	23.50	23.60	23.86	23.80	24.20	23.30	23.07	23.05	23.50
3GPP Rel 6	HSDPA Subtest-4	23.20	23.08	23.00	23.50	23.63	23.89	23.77	24.20	22.78	22.52	22.56	23.50
3GPP Rel 6	HSUPA Subtest-1	23.34	23.36	23.33	24.00	23.66	24.21	23.93	24.70	22.45	22.29	22.20	24.00
3GPP Rel 6	HSUPA Subtest-2	21.25	21.28	21.27	22.00	21.59	22.12	21.92	22.70	20.52	20.31	20.29	22.00
3GPP Rel 6	HSUPA Subtest-3	21.81	21.84	21.80	23.00	22.07	22.67	22.46	23.70	21.55	21.33	21.34	23.00
3GPP Rel 6	HSUPA Subtest-4	20.80	20.80	20.75	22.00	21.90	22.12	21.51	22.70	20.40	20.35	20.32	22.00
3GPP Rel 6	HSUPA Subtest-5	23.88	23.80	23.90	24.00	24.56	24.60	24.65	24.70	23.60	23.62	23.40	24.00

Band		WCDMA II_Ant 2_Index 4			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 4			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 4			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	19.75	19.81	19.75	20.50	22.72	22.65	22.71	23.60	23.94	23.96	24.02	25.00
3GPP Rel 99	RMC 12.2Kbps	19.81	19.81	19.82	20.50	22.73	22.68	22.74	23.60	23.95	23.98	24.05	25.00
3GPP Rel 6	HSDPA Subtest-1	19.73	19.81	19.81	20.50	22.61	22.73	22.56	23.60	23.99	23.89	24.00	24.00
3GPP Rel 6	HSDPA Subtest-2	19.79	19.74	19.78	20.50	22.63	22.64	22.68	23.60	24.00	23.48	23.80	24.00
3GPP Rel 6	HSDPA Subtest-3	19.77	19.78	19.76	20.50	22.64	22.67	22.67	23.60	23.30	23.07	23.05	23.50
3GPP Rel 6	HSDPA Subtest-4	19.78	19.73	19.77	20.50	22.63	22.70	22.71	23.60	22.78	22.52	22.56	23.50
3GPP Rel 6	HSUPA Subtest-1	19.79	19.76	19.75	20.50	22.69	22.71	22.68	23.60	22.45	22.29	22.20	24.00
3GPP Rel 6	HSUPA Subtest-2	19.76	19.75	19.81	20.50	22.47	22.31	22.27	22.70	20.52	20.31	20.29	22.00
3GPP Rel 6	HSUPA Subtest-3	19.71	19.80	19.78	20.50	22.57	22.59	22.62	23.60	21.55	21.33	21.34	23.00
3GPP Rel 6	HSUPA Subtest-4	19.72	19.73	19.79	20.50	22.57	22.56	22.07	22.70	20.40	20.35	20.32	22.00
3GPP Rel 6	HSUPA Subtest-5	19.73	19.77	19.72	20.50	22.68	22.63	22.67	23.60	23.60	23.62	23.40	24.00

Band		WCDMA II_Ant 2_Index 5			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 5			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 5			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	19.75	19.81	19.75	21.30	22.72	22.65	22.71	24.40	23.94	23.96	24.02	25.00
3GPP Rel 99	RMC 12.2Kbps	19.81	19.81	19.82	21.30	22.73	22.68	22.74	24.40	23.95	23.98	24.05	25.00
3GPP Rel 6	HSDPA Subtest-1	19.73	19.81	19.81	21.30	22.61	22.73	22.56	24.40	23.99	23.89	24.00	24.00
3GPP Rel 6	HSDPA Subtest-2	19.79	19.74	19.78	21.30	22.63	22.64	22.68	24.40	24.00	23.48	23.80	24.00
3GPP Rel 6	HSDPA Subtest-3	19.77	19.78	19.76	21.30	22.64	22.67	22.67	24.20	23.30	23.07	23.05	23.50
3GPP Rel 6	HSDPA Subtest-4	19.78	19.73	19.77	21.30	22.63	22.70	22.71	24.20	22.78	22.52	22.56	23.50
3GPP Rel 6	HSUPA Subtest-1	19.79	19.76	19.75	21.30	22.69	22.71	22.68	24.40	22.45	22.29	22.20	24.00
3GPP Rel 6	HSUPA Subtest-2	19.76	19.75	19.81	21.30	22.47	22.31	22.27	22.70	20.52	20.31	20.29	22.00
3GPP Rel 6	HSUPA Subtest-3	19.71	19.80	19.78	21.30	22.57	22.59	22.62	23.70	21.55	21.33	21.34	23.00
3GPP Rel 6	HSUPA Subtest-4	19.72	19.73	19.79	21.30	22.57	22.56	22.07	22.70	20.40	20.35	20.32	22.00
3GPP Rel 6	HSUPA Subtest-5	19.73	19.77	19.72	21.30	22.68	22.63	22.67	24.40	23.60	23.62	23.40	24.00

Band		WCDMA II_Ant 2_Index 6			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 6			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 6			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	19.75	19.81	19.75	20.50	22.72	22.65	22.71	23.60	23.94	23.96	24.02	25.00
3GPP Rel 99	RMC 12.2Kbps	19.81	19.81	19.82	20.50	22.73	22.68	22.74	23.60	23.95	23.98	24.05	25.00
3GPP Rel 6	HSDPA Subtest-1	19.73	19.81	19.81	20.50	22.61	22.73	22.56	23.60	23.99	23.89	24.00	24.00
3GPP Rel 6	HSDPA Subtest-2	19.79	19.74	19.78	20.50	22.63	22.64	22.68	23.60	24.00	23.48	23.80	24.00
3GPP Rel 6	HSDPA Subtest-3	19.77	19.78	19.76	20.50	22.64	22.67	22.67	23.60	23.30	23.07	23.05	23.50
3GPP Rel 6	HSDPA Subtest-4	19.78	19.73	19.77	20.50	22.63	22.70	22.71	23.60	22.78	22.52	22.56	23.50
3GPP Rel 6	HSUPA Subtest-1	19.79	19.76	19.75	20.50	22.69	22.71	22.68	23.60	22.45	22.29	22.20	24.00
3GPP Rel 6	HSUPA Subtest-2	19.76	19.75	19.81	20.50	22.47	22.31	22.27	22.70	20.52	20.31	20.29	22.00
3GPP Rel 6	HSUPA Subtest-3	19.71	19.80	19.78	20.50	22.57	22.59	22.62	23.60	21.55	21.33	21.34	23.00
3GPP Rel 6	HSUPA Subtest-4	19.72	19.73	19.79	20.50	22.57	22.56	22.07	22.70	20.40	20.35	20.32	22.00
3GPP Rel 6	HSUPA Subtest-5	19.73	19.77	19.72	20.50	22.68	22.63	22.67	23.60	23.60	23.62	23.40	24.00



<LTE Band 2_Ant 0_Index 2/3/5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.35	23.38	23.16	
20	QPSK	1	49	23.34	23.27	23.15	24.5
20	QPSK	1	99	23.10	23.01	23.11	
20	QPSK	50	0	22.29	22.30	22.16	
20	QPSK	50	24	22.28	22.19	22.16	23.5
20	QPSK	50	50	22.19	22.08	22.13	
20	QPSK	100	0	22.20	22.21	22.18	
20	16QAM	1	0	22.57	22.66	22.42	23.5
20	16QAM	1	49	22.55	22.52	22.33	
20	16QAM	1	99	22.31	22.31	22.40	
20	16QAM	50	0	21.32	21.28	21.16	22.5
20	16QAM	50	24	21.27	21.19	21.14	
20	16QAM	50	50	21.20	21.09	21.14	
20	16QAM	100	0	21.22	21.16	21.13	22.5
20	64QAM	1	0	21.49	21.60	21.27	
20	64QAM	1	49	21.48	21.37	21.36	
20	64QAM	1	99	21.16	21.17	21.26	21.5
20	64QAM	50	0	20.32	20.28	20.17	
20	64QAM	50	24	20.29	20.19	20.17	
20	64QAM	50	50	20.20	20.08	20.13	19.5
20	64QAM	100	0	20.21	20.16	20.13	
20	256QAM	1	0	18.91	18.94	18.79	
20	256QAM	1	49	18.92	18.57	18.60	19.5
20	256QAM	1	99	18.81	18.60	18.58	
20	256QAM	50	0	18.64	18.69	18.67	
20	256QAM	50	24	18.61	18.57	18.54	19.5
20	256QAM	50	50	18.60	18.48	18.45	
20	256QAM	100	0	18.64	18.63	18.61	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.13	23.12	22.91	
15	QPSK	1	37	23.09	23.02	22.85	24.5
15	QPSK	1	74	23.02	22.91	22.92	
15	QPSK	36	0	22.24	22.21	22.04	
15	QPSK	36	20	22.19	22.14	22.04	23.5
15	QPSK	36	39	22.14	22.06	22.05	
15	QPSK	75	0	22.18	22.16	22.07	
15	16QAM	1	0	22.47	22.50	22.33	23.5
15	16QAM	1	37	22.41	22.39	22.30	
15	16QAM	1	74	22.35	22.31	22.29	
15	16QAM	36	0	21.24	21.21	21.07	22.5
15	16QAM	36	20	21.19	21.12	21.02	
15	16QAM	36	39	21.14	21.06	21.06	
15	16QAM	75	0	21.16	21.15	21.04	22.5
15	64QAM	1	0	21.40	21.36	21.19	
15	64QAM	1	37	21.39	21.26	21.19	
15	64QAM	1	74	21.19	21.06	21.15	21.5
15	64QAM	36	0	20.23	20.21	20.10	
15	64QAM	36	20	20.19	20.13	20.05	
15	64QAM	36	39	20.16	20.08	20.06	19.5
15	64QAM	75	0	20.11	20.10	20.01	
15	256QAM	1	0	18.70	18.86	18.73	
15	256QAM	1	37	18.76	18.85	18.79	19.5
15	256QAM	1	74	18.60	18.66	18.65	
15	256QAM	36	0	18.65	18.69	18.67	
15	256QAM	36	20	18.52	18.62	18.56	19.5



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15	256QAM	36	39	18.52	18.57	18.60	
15	256QAM	75	0	18.61	18.62	18.66	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.03	23.01	22.76	24.5
10	QPSK	1	25	22.84	22.79	22.62	
10	QPSK	1	49	22.88	22.77	22.73	
10	QPSK	25	0	22.00	21.94	21.83	23.5
10	QPSK	25	12	21.97	21.87	21.81	
10	QPSK	25	25	21.95	21.83	21.81	
10	QPSK	50	0	21.97	21.87	21.81	
10	16QAM	1	0	22.33	22.37	22.15	23.5
10	16QAM	1	25	22.29	22.17	22.10	
10	16QAM	1	49	22.18	22.12	22.11	
10	16QAM	25	0	21.00	20.96	20.86	22.5
10	16QAM	25	12	20.99	20.93	20.86	
10	16QAM	25	25	20.96	20.88	20.87	
10	16QAM	50	0	20.96	20.89	20.84	
10	64QAM	1	0	21.18	21.17	20.99	22.5
10	64QAM	1	25	20.96	20.85	20.86	
10	64QAM	1	49	21.12	20.87	20.99	
10	64QAM	25	0	19.97	19.96	19.83	21.5
10	64QAM	25	12	19.95	19.89	19.80	
10	64QAM	25	25	19.93	19.85	19.80	
10	64QAM	50	0	19.96	19.89	19.83	
10	256QAM	1	0	18.90	18.87	18.80	19.5
10	256QAM	1	25	18.97	18.88	18.66	
10	256QAM	1	49	18.93	18.75	18.72	
10	256QAM	25	0	18.67	18.79	18.56	19.5
10	256QAM	25	12	18.67	18.70	18.55	
10	256QAM	25	25	18.64	18.62	18.53	
10	256QAM	50	0	18.65	18.70	18.60	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.11	23.10	22.97	24.5
5	QPSK	1	12	23.16	23.13	23.05	
5	QPSK	1	24	23.13	23.06	23.02	
5	QPSK	12	0	22.19	22.19	22.11	23.5
5	QPSK	12	7	22.17	22.18	22.12	
5	QPSK	12	13	22.16	22.16	22.12	
5	QPSK	25	0	22.13	22.09	22.07	
5	16QAM	1	0	22.42	22.48	22.37	23.5
5	16QAM	1	12	22.41	22.44	22.35	
5	16QAM	1	24	22.37	22.48	22.38	
5	16QAM	12	0	21.19	21.18	21.14	22.5
5	16QAM	12	7	21.19	21.17	21.16	
5	16QAM	12	13	21.17	21.14	21.13	
5	16QAM	25	0	21.16	21.13	21.10	
5	64QAM	1	0	21.31	21.27	21.26	22.5
5	64QAM	1	12	21.40	21.26	21.27	
5	64QAM	1	24	21.29	21.21	21.21	
5	64QAM	12	0	20.16	20.15	20.06	21.5
5	64QAM	12	7	20.16	20.09	20.09	
5	64QAM	12	13	20.16	20.08	20.09	
5	64QAM	25	0	20.12	20.09	20.06	
5	256QAM	1	0	18.84	18.86	18.71	19.5
5	256QAM	1	12	18.87	18.78	18.58	
5	256QAM	1	24	18.91	18.80	18.67	
5	256QAM	12	0	18.76	18.67	18.56	19.5
5	256QAM	12	7	18.78	18.63	18.55	
5	256QAM	12	13	18.79	18.63	18.58	
5	256QAM	25	0	18.71	18.69	18.64	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.15	23.19	23.06	24.5
3	QPSK	1	8	23.10	23.05	22.98	
3	QPSK	1	14	23.13	23.09	23.02	
3	QPSK	8	0	22.17	22.18	22.13	23.5
3	QPSK	8	4	22.16	22.16	22.14	
3	QPSK	8	7	22.17	22.17	22.16	
3	QPSK	15	0	22.19	22.22	22.17	23.5
3	16QAM	1	0	22.45	22.46	22.44	
3	16QAM	1	8	22.36	22.41	22.35	
3	16QAM	1	14	22.44	22.48	22.46	22.5
3	16QAM	8	0	21.14	21.16	21.13	
3	16QAM	8	4	21.18	21.17	21.18	
3	16QAM	8	7	21.13	21.10	21.12	22.5
3	16QAM	15	0	21.15	21.14	21.15	
3	64QAM	1	0	21.36	21.31	21.29	
3	64QAM	1	8	21.29	21.25	21.24	21.5
3	64QAM	1	14	21.26	21.25	21.25	
3	64QAM	8	0	20.15	20.13	20.12	
3	64QAM	8	4	20.19	20.15	20.17	19.5
3	64QAM	8	7	20.21	20.12	20.14	
3	64QAM	15	0	20.18	20.11	20.12	
3	256QAM	1	0	18.78	18.74	18.62	19.5
3	256QAM	1	8	18.77	18.76	18.52	
3	256QAM	1	14	18.87	18.72	18.58	
3	256QAM	8	0	18.67	18.66	18.55	19.5
3	256QAM	8	4	18.69	18.67	18.50	
3	256QAM	8	7	18.74	18.59	18.57	
3	256QAM	15	0	18.69	18.72	18.55	19.5
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	Tune-up limit (dBm)
1.4	QPSK	1	0	23.15	23.13	23.05	
1.4	QPSK	1	3	23.05	23.03	22.96	24.5
1.4	QPSK	1	5	23.19	23.16	23.09	
1.4	QPSK	3	0	23.16	23.13	23.08	
1.4	QPSK	3	1	23.15	23.17	23.12	23.5
1.4	QPSK	3	3	23.14	23.11	23.07	
1.4	QPSK	6	0	22.15	22.16	22.14	
1.4	16QAM	1	0	22.43	22.45	22.43	23.5
1.4	16QAM	1	3	22.36	22.39	22.33	
1.4	16QAM	1	5	22.43	22.45	22.44	
1.4	16QAM	3	0	22.17	22.24	22.21	22.5
1.4	16QAM	3	1	22.22	22.30	22.22	
1.4	16QAM	3	3	22.23	22.22	22.21	
1.4	16QAM	6	0	21.18	21.14	21.16	22.5
1.4	64QAM	1	0	21.38	21.32	21.28	
1.4	64QAM	1	3	21.27	21.18	21.27	
1.4	64QAM	1	5	21.36	21.32	21.32	21.5
1.4	64QAM	3	0	21.22	21.21	21.17	
1.4	64QAM	3	1	21.23	21.18	21.21	
1.4	64QAM	3	3	21.19	21.15	21.13	19.5
1.4	64QAM	6	0	20.16	20.11	20.15	
1.4	256QAM	1	0	18.84	18.78	18.66	
1.4	256QAM	1	3	18.81	18.68	18.53	19.5
1.4	256QAM	1	5	18.92	18.73	18.62	
1.4	256QAM	3	0	18.69	18.61	18.53	
1.4	256QAM	3	1	18.67	18.68	18.50	19.5
1.4	256QAM	3	3	18.69	18.65	18.52	
1.4	256QAM	6	0	18.64	18.61	18.53	

**<LTE Band 2_Ant 0_Index 4>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.35	23.38	23.16	
20	QPSK	1	49	23.34	23.27	23.15	24.1
20	QPSK	1	99	23.10	23.01	23.11	
20	QPSK	50	0	22.29	22.30	22.16	
20	QPSK	50	24	22.28	22.19	22.16	23.5
20	QPSK	50	50	22.19	22.08	22.13	
20	QPSK	100	0	22.20	22.21	22.18	
20	16QAM	1	0	22.57	22.66	22.42	23.5
20	16QAM	1	49	22.55	22.52	22.33	
20	16QAM	1	99	22.31	22.31	22.40	
20	16QAM	50	0	21.32	21.28	21.16	22.5
20	16QAM	50	24	21.27	21.19	21.14	
20	16QAM	50	50	21.20	21.09	21.14	
20	16QAM	100	0	21.22	21.16	21.13	22.5
20	64QAM	1	0	21.49	21.60	21.27	
20	64QAM	1	49	21.48	21.37	21.36	
20	64QAM	1	99	21.16	21.17	21.26	21.5
20	64QAM	50	0	20.32	20.28	20.17	
20	64QAM	50	24	20.29	20.19	20.17	
20	64QAM	50	50	20.20	20.08	20.13	19.5
20	64QAM	100	0	20.21	20.16	20.13	
20	256QAM	1	0	18.91	18.94	18.79	
20	256QAM	1	49	18.92	18.57	18.60	19.5
20	256QAM	1	99	18.81	18.60	18.58	
20	256QAM	50	0	18.64	18.69	18.67	
20	256QAM	50	24	18.61	18.57	18.54	19.5
20	256QAM	50	50	18.60	18.48	18.45	
20	256QAM	100	0	18.64	18.63	18.61	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.13	23.12	22.91	
15	QPSK	1	37	23.09	23.02	22.85	24.1
15	QPSK	1	74	23.02	22.91	22.92	
15	QPSK	36	0	22.24	22.21	22.04	
15	QPSK	36	20	22.19	22.14	22.04	23.5
15	QPSK	36	39	22.14	22.06	22.05	
15	QPSK	75	0	22.18	22.16	22.07	
15	16QAM	1	0	22.47	22.50	22.33	23.5
15	16QAM	1	37	22.41	22.39	22.30	
15	16QAM	1	74	22.35	22.31	22.29	
15	16QAM	36	0	21.24	21.21	21.07	22.5
15	16QAM	36	20	21.19	21.12	21.02	
15	16QAM	36	39	21.14	21.06	21.06	
15	16QAM	75	0	21.16	21.15	21.04	22.5
15	64QAM	1	0	21.40	21.36	21.19	
15	64QAM	1	37	21.39	21.26	21.19	
15	64QAM	1	74	21.19	21.06	21.15	21.5
15	64QAM	36	0	20.23	20.21	20.10	
15	64QAM	36	20	20.19	20.13	20.05	
15	64QAM	36	39	20.16	20.08	20.06	19.5
15	64QAM	75	0	20.11	20.10	20.01	
15	256QAM	1	0	18.70	18.86	18.73	
15	256QAM	1	37	18.76	18.85	18.79	19.5
15	256QAM	1	74	18.60	18.66	18.65	
15	256QAM	36	0	18.65	18.69	18.67	
15	256QAM	36	20	18.52	18.62	18.56	19.5



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15	256QAM	36	39	18.52	18.57	18.60	
15	256QAM	75	0	18.61	18.62	18.66	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.03	23.01	22.76	24.1
10	QPSK	1	25	22.84	22.79	22.62	
10	QPSK	1	49	22.88	22.77	22.73	
10	QPSK	25	0	22.00	21.94	21.83	23.5
10	QPSK	25	12	21.97	21.87	21.81	
10	QPSK	25	25	21.95	21.83	21.81	
10	QPSK	50	0	21.97	21.87	21.81	
10	16QAM	1	0	22.33	22.37	22.15	23.5
10	16QAM	1	25	22.29	22.17	22.10	
10	16QAM	1	49	22.18	22.12	22.11	
10	16QAM	25	0	21.00	20.96	20.86	22.5
10	16QAM	25	12	20.99	20.93	20.86	
10	16QAM	25	25	20.96	20.88	20.87	
10	16QAM	50	0	20.96	20.89	20.84	
10	64QAM	1	0	21.18	21.17	20.99	22.5
10	64QAM	1	25	20.96	20.85	20.86	
10	64QAM	1	49	21.12	20.87	20.99	
10	64QAM	25	0	19.97	19.96	19.83	21.5
10	64QAM	25	12	19.95	19.89	19.80	
10	64QAM	25	25	19.93	19.85	19.80	
10	64QAM	50	0	19.96	19.89	19.83	
10	256QAM	1	0	18.90	18.87	18.80	19.5
10	256QAM	1	25	18.97	18.88	18.66	
10	256QAM	1	49	18.93	18.75	18.72	
10	256QAM	25	0	18.67	18.79	18.56	19.5
10	256QAM	25	12	18.67	18.70	18.55	
10	256QAM	25	25	18.64	18.62	18.53	
10	256QAM	50	0	18.65	18.70	18.60	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.11	23.10	22.97	24.1
5	QPSK	1	12	23.16	23.13	23.05	
5	QPSK	1	24	23.13	23.06	23.02	
5	QPSK	12	0	22.19	22.19	22.11	23.5
5	QPSK	12	7	22.17	22.18	22.12	
5	QPSK	12	13	22.16	22.16	22.12	
5	QPSK	25	0	22.13	22.09	22.07	
5	16QAM	1	0	22.42	22.48	22.37	23.5
5	16QAM	1	12	22.41	22.44	22.35	
5	16QAM	1	24	22.37	22.48	22.38	
5	16QAM	12	0	21.19	21.18	21.14	22.5
5	16QAM	12	7	21.19	21.17	21.16	
5	16QAM	12	13	21.17	21.14	21.13	
5	16QAM	25	0	21.16	21.13	21.10	
5	64QAM	1	0	21.31	21.27	21.26	22.5
5	64QAM	1	12	21.40	21.26	21.27	
5	64QAM	1	24	21.29	21.21	21.21	
5	64QAM	12	0	20.16	20.15	20.06	21.5
5	64QAM	12	7	20.16	20.09	20.09	
5	64QAM	12	13	20.16	20.08	20.09	
5	64QAM	25	0	20.12	20.09	20.06	
5	256QAM	1	0	18.84	18.86	18.71	19.5
5	256QAM	1	12	18.87	18.78	18.58	
5	256QAM	1	24	18.91	18.80	18.67	
5	256QAM	12	0	18.76	18.67	18.56	19.5
5	256QAM	12	7	18.78	18.63	18.55	
5	256QAM	12	13	18.79	18.63	18.58	
5	256QAM	25	0	18.71	18.69	18.64	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.15	23.19	23.06	24.1
3	QPSK	1	8	23.10	23.05	22.98	
3	QPSK	1	14	23.13	23.09	23.02	
3	QPSK	8	0	22.17	22.18	22.13	23.5
3	QPSK	8	4	22.16	22.16	22.14	
3	QPSK	8	7	22.17	22.17	22.16	
3	QPSK	15	0	22.19	22.22	22.17	23.5
3	16QAM	1	0	22.45	22.46	22.44	
3	16QAM	1	8	22.36	22.41	22.35	
3	16QAM	1	14	22.44	22.48	22.46	22.5
3	16QAM	8	0	21.14	21.16	21.13	
3	16QAM	8	4	21.18	21.17	21.18	
3	16QAM	8	7	21.13	21.10	21.12	22.5
3	16QAM	15	0	21.15	21.14	21.15	
3	64QAM	1	0	21.36	21.31	21.29	
3	64QAM	1	8	21.29	21.25	21.24	21.5
3	64QAM	1	14	21.26	21.25	21.25	
3	64QAM	8	0	20.15	20.13	20.12	
3	64QAM	8	4	20.19	20.15	20.17	19.5
3	64QAM	8	7	20.21	20.12	20.14	
3	64QAM	15	0	20.18	20.11	20.12	
3	256QAM	1	0	18.78	18.74	18.62	19.5
3	256QAM	1	8	18.77	18.76	18.52	
3	256QAM	1	14	18.87	18.72	18.58	
3	256QAM	8	0	18.67	18.66	18.55	19.5
3	256QAM	8	4	18.69	18.67	18.50	
3	256QAM	8	7	18.74	18.59	18.57	
3	256QAM	15	0	18.69	18.72	18.55	19.5
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	Tune-up limit (dBm)
1.4	QPSK	1	0	23.15	23.13	23.05	24.1
1.4	QPSK	1	3	23.05	23.03	22.96	
1.4	QPSK	1	5	23.19	23.16	23.09	
1.4	QPSK	3	0	23.16	23.13	23.08	23.5
1.4	QPSK	3	1	23.15	23.17	23.12	
1.4	QPSK	3	3	23.14	23.11	23.07	
1.4	QPSK	6	0	22.15	22.16	22.14	23.5
1.4	16QAM	1	0	22.43	22.45	22.43	
1.4	16QAM	1	3	22.36	22.39	22.33	
1.4	16QAM	1	5	22.43	22.45	22.44	22.5
1.4	16QAM	3	0	22.17	22.24	22.21	
1.4	16QAM	3	1	22.22	22.30	22.22	
1.4	16QAM	3	3	22.23	22.22	22.21	22.5
1.4	16QAM	6	0	21.18	21.14	21.16	
1.4	64QAM	1	0	21.38	21.32	21.28	
1.4	64QAM	1	3	21.27	21.18	21.27	21.5
1.4	64QAM	1	5	21.36	21.32	21.32	
1.4	64QAM	3	0	21.22	21.21	21.17	
1.4	64QAM	3	1	21.23	21.18	21.21	19.5
1.4	64QAM	3	3	21.19	21.15	21.13	
1.4	64QAM	6	0	20.16	20.11	20.15	
1.4	256QAM	1	0	18.84	18.78	18.66	19.5
1.4	256QAM	1	3	18.81	18.68	18.53	
1.4	256QAM	1	5	18.92	18.73	18.62	
1.4	256QAM	3	0	18.69	18.61	18.53	19.5
1.4	256QAM	3	1	18.67	18.68	18.50	
1.4	256QAM	3	3	18.69	18.65	18.52	
1.4	256QAM	6	0	18.64	18.61	18.53	19.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.35	23.38	23.16	
20	QPSK	1	49	23.34	23.27	23.15	24.2
20	QPSK	1	99	23.10	23.01	23.11	
20	QPSK	50	0	22.29	22.30	22.16	
20	QPSK	50	24	22.28	22.19	22.16	23.5
20	QPSK	50	50	22.19	22.08	22.13	
20	QPSK	100	0	22.20	22.21	22.18	
20	16QAM	1	0	22.57	22.66	22.42	23.5
20	16QAM	1	49	22.55	22.52	22.33	
20	16QAM	1	99	22.31	22.31	22.40	
20	16QAM	50	0	21.32	21.28	21.16	22.5
20	16QAM	50	24	21.27	21.19	21.14	
20	16QAM	50	50	21.20	21.09	21.14	
20	16QAM	100	0	21.22	21.16	21.13	22.5
20	64QAM	1	0	21.49	21.60	21.27	
20	64QAM	1	49	21.48	21.37	21.36	
20	64QAM	1	99	21.16	21.17	21.26	21.5
20	64QAM	50	0	20.32	20.28	20.17	
20	64QAM	50	24	20.29	20.19	20.17	
20	64QAM	50	50	20.20	20.08	20.13	19.5
20	64QAM	100	0	20.21	20.16	20.13	
20	256QAM	1	0	18.91	18.94	18.79	
20	256QAM	1	49	18.92	18.57	18.60	19.5
20	256QAM	1	99	18.81	18.60	18.58	
20	256QAM	50	0	18.64	18.69	18.67	
20	256QAM	50	24	18.61	18.57	18.54	19.5
20	256QAM	50	50	18.60	18.48	18.45	
20	256QAM	100	0	18.64	18.63	18.61	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.13	23.12	22.91	
15	QPSK	1	37	23.09	23.02	22.85	24.2
15	QPSK	1	74	23.02	22.91	22.92	
15	QPSK	36	0	22.24	22.21	22.04	
15	QPSK	36	20	22.19	22.14	22.04	23.5
15	QPSK	36	39	22.14	22.06	22.05	
15	QPSK	75	0	22.18	22.16	22.07	
15	16QAM	1	0	22.47	22.50	22.33	23.5
15	16QAM	1	37	22.41	22.39	22.30	
15	16QAM	1	74	22.35	22.31	22.29	
15	16QAM	36	0	21.24	21.21	21.07	22.5
15	16QAM	36	20	21.19	21.12	21.02	
15	16QAM	36	39	21.14	21.06	21.06	
15	16QAM	75	0	21.16	21.15	21.04	22.5
15	64QAM	1	0	21.40	21.36	21.19	
15	64QAM	1	37	21.39	21.26	21.19	
15	64QAM	1	74	21.19	21.06	21.15	21.5
15	64QAM	36	0	20.23	20.21	20.10	
15	64QAM	36	20	20.19	20.13	20.05	
15	64QAM	36	39	20.16	20.08	20.06	19.5
15	64QAM	75	0	20.11	20.10	20.01	
15	256QAM	1	0	18.70	18.86	18.73	
15	256QAM	1	37	18.76	18.85	18.79	19.5
15	256QAM	1	74	18.60	18.66	18.65	
15	256QAM	36	0	18.65	18.69	18.67	
15	256QAM	36	20	18.52	18.62	18.56	19.5



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15	256QAM	36	39	18.52	18.57	18.60	
15	256QAM	75	0	18.61	18.62	18.66	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.03	23.01	22.76	24.2
10	QPSK	1	25	22.84	22.79	22.62	
10	QPSK	1	49	22.88	22.77	22.73	
10	QPSK	25	0	22.00	21.94	21.83	23.5
10	QPSK	25	12	21.97	21.87	21.81	
10	QPSK	25	25	21.95	21.83	21.81	
10	QPSK	50	0	21.97	21.87	21.81	
10	16QAM	1	0	22.33	22.37	22.15	23.5
10	16QAM	1	25	22.29	22.17	22.10	
10	16QAM	1	49	22.18	22.12	22.11	
10	16QAM	25	0	21.00	20.96	20.86	22.5
10	16QAM	25	12	20.99	20.93	20.86	
10	16QAM	25	25	20.96	20.88	20.87	
10	16QAM	50	0	20.96	20.89	20.84	
10	64QAM	1	0	21.18	21.17	20.99	22.5
10	64QAM	1	25	20.96	20.85	20.86	
10	64QAM	1	49	21.12	20.87	20.99	
10	64QAM	25	0	19.97	19.96	19.83	21.5
10	64QAM	25	12	19.95	19.89	19.80	
10	64QAM	25	25	19.93	19.85	19.80	
10	64QAM	50	0	19.96	19.89	19.83	
10	256QAM	1	0	18.90	18.87	18.80	19.5
10	256QAM	1	25	18.97	18.88	18.66	
10	256QAM	1	49	18.93	18.75	18.72	
10	256QAM	25	0	18.67	18.79	18.56	19.5
10	256QAM	25	12	18.67	18.70	18.55	
10	256QAM	25	25	18.64	18.62	18.53	
10	256QAM	50	0	18.65	18.70	18.60	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.11	23.10	22.97	24.2
5	QPSK	1	12	23.16	23.13	23.05	
5	QPSK	1	24	23.13	23.06	23.02	
5	QPSK	12	0	22.19	22.19	22.11	23.5
5	QPSK	12	7	22.17	22.18	22.12	
5	QPSK	12	13	22.16	22.16	22.12	
5	QPSK	25	0	22.13	22.09	22.07	
5	16QAM	1	0	22.42	22.48	22.37	23.5
5	16QAM	1	12	22.41	22.44	22.35	
5	16QAM	1	24	22.37	22.48	22.38	
5	16QAM	12	0	21.19	21.18	21.14	22.5
5	16QAM	12	7	21.19	21.17	21.16	
5	16QAM	12	13	21.17	21.14	21.13	
5	16QAM	25	0	21.16	21.13	21.10	
5	64QAM	1	0	21.31	21.27	21.26	22.5
5	64QAM	1	12	21.40	21.26	21.27	
5	64QAM	1	24	21.29	21.21	21.21	
5	64QAM	12	0	20.16	20.15	20.06	21.5
5	64QAM	12	7	20.16	20.09	20.09	
5	64QAM	12	13	20.16	20.08	20.09	
5	64QAM	25	0	20.12	20.09	20.06	
5	256QAM	1	0	18.84	18.86	18.71	19.5
5	256QAM	1	12	18.87	18.78	18.58	
5	256QAM	1	24	18.91	18.80	18.67	
5	256QAM	12	0	18.76	18.67	18.56	19.5
5	256QAM	12	7	18.78	18.63	18.55	
5	256QAM	12	13	18.79	18.63	18.58	
5	256QAM	25	0	18.71	18.69	18.64	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.15	23.19	23.06	24.2
3	QPSK	1	8	23.10	23.05	22.98	
3	QPSK	1	14	23.13	23.09	23.02	
3	QPSK	8	0	22.17	22.18	22.13	23.5
3	QPSK	8	4	22.16	22.16	22.14	
3	QPSK	8	7	22.17	22.17	22.16	
3	QPSK	15	0	22.19	22.22	22.17	23.5
3	16QAM	1	0	22.45	22.46	22.44	
3	16QAM	1	8	22.36	22.41	22.35	
3	16QAM	1	14	22.44	22.48	22.46	22.5
3	16QAM	8	0	21.14	21.16	21.13	
3	16QAM	8	4	21.18	21.17	21.18	
3	16QAM	8	7	21.13	21.10	21.12	22.5
3	16QAM	15	0	21.15	21.14	21.15	
3	64QAM	1	0	21.36	21.31	21.29	
3	64QAM	1	8	21.29	21.25	21.24	21.5
3	64QAM	1	14	21.26	21.25	21.25	
3	64QAM	8	0	20.15	20.13	20.12	
3	64QAM	8	4	20.19	20.15	20.17	19.5
3	64QAM	8	7	20.21	20.12	20.14	
3	64QAM	15	0	20.18	20.11	20.12	
3	256QAM	1	0	18.78	18.74	18.62	19.5
3	256QAM	1	8	18.77	18.76	18.52	
3	256QAM	1	14	18.87	18.72	18.58	
3	256QAM	8	0	18.67	18.66	18.55	19.5
3	256QAM	8	4	18.69	18.67	18.50	
3	256QAM	8	7	18.74	18.59	18.57	
3	256QAM	15	0	18.69	18.72	18.55	19.5
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	Tune-up limit (dBm)
1.4	QPSK	1	0	23.15	23.13	23.05	
1.4	QPSK	1	3	23.05	23.03	22.96	24.2
1.4	QPSK	1	5	23.19	23.16	23.09	
1.4	QPSK	3	0	23.16	23.13	23.08	
1.4	QPSK	3	1	23.15	23.17	23.12	23.5
1.4	QPSK	3	3	23.14	23.11	23.07	
1.4	QPSK	6	0	22.15	22.16	22.14	
1.4	16QAM	1	0	22.43	22.45	22.43	22.5
1.4	16QAM	1	3	22.36	22.39	22.33	
1.4	16QAM	1	5	22.43	22.45	22.44	
1.4	16QAM	3	0	22.17	22.24	22.21	22.5
1.4	16QAM	3	1	22.22	22.30	22.22	
1.4	16QAM	3	3	22.23	22.22	22.21	
1.4	16QAM	6	0	21.18	21.14	21.16	21.5
1.4	64QAM	1	0	21.38	21.32	21.28	
1.4	64QAM	1	3	21.27	21.18	21.27	
1.4	64QAM	1	5	21.36	21.32	21.32	19.5
1.4	64QAM	3	0	21.22	21.21	21.17	
1.4	64QAM	3	1	21.23	21.18	21.21	
1.4	64QAM	3	3	21.19	21.15	21.13	19.5
1.4	64QAM	6	0	20.16	20.11	20.15	
1.4	256QAM	1	0	18.84	18.78	18.66	
1.4	256QAM	1	3	18.81	18.68	18.53	19.5
1.4	256QAM	1	5	18.92	18.73	18.62	
1.4	256QAM	3	0	18.69	18.61	18.53	
1.4	256QAM	3	1	18.67	18.68	18.50	19.5
1.4	256QAM	3	3	18.69	18.65	18.52	
1.4	256QAM	6	0	18.64	18.61	18.53	

**<LTE Band 2_Ant 2_Index 2>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.74	23.82	23.71	
20	QPSK	1	49	23.66	23.65	23.68	25
20	QPSK	1	99	23.52	23.46	23.66	
20	QPSK	50	0	22.77	22.78	22.71	
20	QPSK	50	24	22.72	22.66	22.74	24
20	QPSK	50	50	22.64	22.58	22.71	
20	QPSK	100	0	22.70	22.69	22.72	
20	16QAM	1	0	23.06	23.20	23.04	24
20	16QAM	1	49	22.98	23.07	23.07	
20	16QAM	1	99	22.77	22.84	22.98	
20	16QAM	50	0	21.72	21.76	21.71	23
20	16QAM	50	24	21.72	21.68	21.71	
20	16QAM	50	50	21.63	21.59	21.70	
20	16QAM	100	0	21.65	21.66	21.70	23
20	64QAM	1	0	21.87	22.05	21.99	
20	64QAM	1	49	21.85	21.85	21.90	
20	64QAM	1	99	21.74	21.66	21.87	22
20	64QAM	50	0	20.76	20.76	20.72	
20	64QAM	50	24	20.77	20.70	20.73	
20	64QAM	50	50	20.67	20.59	20.72	20
20	64QAM	100	0	20.65	20.66	20.69	
20	256QAM	1	0	19.20	19.25	19.13	
20	256QAM	1	49	19.17	18.97	18.96	20
20	256QAM	1	99	18.99	18.93	18.71	
20	256QAM	50	0	18.93	19.00	18.89	
20	256QAM	50	24	18.89	18.90	18.85	20
20	256QAM	50	50	18.86	18.78	18.83	
20	256QAM	100	0	18.91	18.95	18.93	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.64	23.68	23.68	
15	QPSK	1	37	23.50	23.60	23.66	25
15	QPSK	1	74	23.61	23.38	23.60	
15	QPSK	36	0	22.65	22.69	22.65	24
15	QPSK	36	20	22.68	22.64	22.71	
15	QPSK	36	39	22.62	22.55	22.71	
15	QPSK	75	0	22.64	22.69	22.73	24
15	16QAM	1	0	22.52	23.19	23.06	
15	16QAM	1	37	22.81	22.87	22.93	
15	16QAM	1	74	22.84	22.81	23.04	23
15	16QAM	36	0	21.73	21.72	21.79	
15	16QAM	36	20	21.75	21.67	21.69	
15	16QAM	36	39	21.64	21.62	21.75	23
15	16QAM	75	0	21.67	21.77	21.58	
15	64QAM	1	0	21.75	22.03	22.10	
15	64QAM	1	37	21.78	21.78	21.89	23
15	64QAM	1	74	21.50	21.69	22.01	
15	64QAM	36	0	20.73	20.76	20.80	
15	64QAM	36	20	20.62	20.70	20.72	22
15	64QAM	36	39	20.68	20.63	20.71	
15	64QAM	75	0	20.68	20.68	20.64	
15	256QAM	1	0	19.02	19.10	19.13	20
15	256QAM	1	37	19.06	18.81	19.02	
15	256QAM	1	74	18.83	18.94	18.81	
15	256QAM	36	0	18.91	19.01	19.14	20
15	256QAM	36	20	18.94	18.88	18.85	



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15	256QAM	36	39	18.91	18.84	18.80	Tune-up limit (dBm)
15	256QAM	75	0	18.86	18.90	18.95	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.66	23.73	23.64	25
10	QPSK	1	25	23.52	23.51	23.41	
10	QPSK	1	49	23.56	23.52	23.52	
10	QPSK	25	0	22.63	22.66	22.56	24
10	QPSK	25	12	22.63	22.61	22.58	
10	QPSK	25	25	22.61	22.57	22.58	
10	QPSK	50	0	22.60	22.60	22.58	
10	16QAM	1	0	22.90	23.05	22.87	24
10	16QAM	1	25	22.79	22.88	22.89	
10	16QAM	1	49	22.83	22.85	22.78	
10	16QAM	25	0	21.68	21.73	21.64	23
10	16QAM	25	12	21.67	21.70	21.64	
10	16QAM	25	25	21.65	21.66	21.64	
10	16QAM	50	0	21.64	21.68	21.61	
10	64QAM	1	0	21.80	21.88	21.75	23
10	64QAM	1	25	21.67	21.78	21.68	
10	64QAM	1	49	21.79	21.74	21.73	
10	64QAM	25	0	20.64	20.69	20.59	22
10	64QAM	25	12	20.62	20.67	20.59	
10	64QAM	25	25	20.64	20.66	20.64	
10	64QAM	50	0	20.67	20.68	20.65	
10	256QAM	1	0	19.12	19.07	18.96	20
10	256QAM	1	25	19.02	18.88	18.81	
10	256QAM	1	49	19.04	18.89	18.78	
10	256QAM	25	0	18.90	18.98	19.04	20
10	256QAM	25	12	18.86	18.85	18.88	
10	256QAM	25	25	18.88	18.87	18.84	
10	256QAM	50	0	18.90	18.92	18.89	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.69	23.76	23.72	25
5	QPSK	1	12	23.75	23.78	23.80	
5	QPSK	1	24	23.74	23.70	23.75	
5	QPSK	12	0	22.85	22.88	22.87	24
5	QPSK	12	7	22.84	22.84	22.86	
5	QPSK	12	13	22.85	22.85	22.84	
5	QPSK	25	0	22.80	22.76	22.81	
5	16QAM	1	0	23.10	23.19	23.10	24
5	16QAM	1	12	23.17	23.17	23.12	
5	16QAM	1	24	23.08	23.10	23.11	
5	16QAM	12	0	21.84	21.86	21.86	23
5	16QAM	12	7	21.82	21.85	21.86	
5	16QAM	12	13	21.83	21.82	21.87	
5	16QAM	25	0	21.83	21.81	21.85	
5	64QAM	1	0	22.00	22.05	21.97	23
5	64QAM	1	12	22.02	22.03	21.92	
5	64QAM	1	24	21.98	21.94	21.94	
5	64QAM	12	0	20.84	20.79	20.83	22
5	64QAM	12	7	20.82	20.77	20.83	
5	64QAM	12	13	20.80	20.76	20.81	
5	64QAM	25	0	20.80	20.76	20.81	
5	256QAM	1	0	19.11	19.03	18.99	20
5	256QAM	1	12	19.00	18.92	18.94	
5	256QAM	1	24	19.02	18.99	18.89	
5	256QAM	12	0	18.92	18.97	18.96	20
5	256QAM	12	7	18.95	18.91	18.81	
5	256QAM	12	13	18.92	18.80	18.81	
5	256QAM	25	0	18.87	18.89	18.91	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.67	23.65	23.58	25
3	QPSK	1	8	23.51	23.50	23.48	
3	QPSK	1	14	23.50	23.53	23.54	
3	QPSK	8	0	22.59	22.66	22.63	24
3	QPSK	8	4	22.62	22.63	22.63	
3	QPSK	8	7	22.64	22.63	22.67	
3	QPSK	15	0	22.62	22.67	22.66	24
3	16QAM	1	0	23.00	22.98	23.01	
3	16QAM	1	8	22.85	22.88	22.88	
3	16QAM	1	14	22.90	22.95	22.97	23
3	16QAM	8	0	21.59	21.64	21.64	
3	16QAM	8	4	21.60	21.68	21.66	
3	16QAM	8	7	21.61	21.69	21.66	23
3	16QAM	15	0	21.58	21.65	21.64	
3	64QAM	1	0	21.72	21.77	21.80	
3	64QAM	1	8	21.60	21.75	21.69	22
3	64QAM	1	14	21.67	21.80	21.77	
3	64QAM	8	0	20.60	20.63	20.61	
3	64QAM	8	4	20.64	20.64	20.62	20
3	64QAM	8	7	20.64	20.68	20.64	
3	64QAM	15	0	20.64	20.66	20.59	
3	256QAM	1	0	19.04	19.11	19.10	20
3	256QAM	1	8	19.00	18.94	18.80	
3	256QAM	1	14	19.08	18.97	18.84	
3	256QAM	8	0	18.86	18.87	18.87	20
3	256QAM	8	4	18.90	18.85	18.78	
3	256QAM	8	7	18.91	18.84	18.79	
3	256QAM	15	0	18.87	18.88	18.77	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.61	23.57	23.48	25
1.4	QPSK	1	3	23.57	23.44	23.43	
1.4	QPSK	1	5	23.56	23.59	23.46	
1.4	QPSK	3	0	23.50	23.50	23.42	24
1.4	QPSK	3	1	23.51	23.49	23.53	
1.4	QPSK	3	3	23.52	23.53	23.47	
1.4	QPSK	6	0	22.56	22.58	22.52	24
1.4	16QAM	1	0	22.87	22.95	22.87	
1.4	16QAM	1	3	22.82	22.90	22.83	
1.4	16QAM	1	5	22.89	22.95	22.80	23
1.4	16QAM	3	0	22.61	22.66	22.58	
1.4	16QAM	3	1	22.62	22.74	22.59	
1.4	16QAM	3	3	22.69	22.70	22.60	23
1.4	16QAM	6	0	21.60	21.58	21.53	
1.4	64QAM	1	0	21.76	21.74	21.68	
1.4	64QAM	1	3	21.70	21.77	21.65	22
1.4	64QAM	1	5	21.71	21.77	21.73	
1.4	64QAM	3	0	21.62	21.63	21.60	
1.4	64QAM	3	1	21.71	21.72	21.66	20
1.4	64QAM	3	3	21.67	21.69	21.59	
1.4	64QAM	6	0	20.57	20.59	20.48	
1.4	256QAM	1	0	19.07	19.02	18.96	20
1.4	256QAM	1	3	19.03	19.04	18.88	
1.4	256QAM	1	5	19.04	18.89	18.85	
1.4	256QAM	3	0	18.86	18.87	18.77	20
1.4	256QAM	3	1	18.95	18.94	18.72	
1.4	256QAM	3	3	18.92	18.91	18.83	
1.4	256QAM	6	0	18.90	18.83	18.79	20

**<LTE Band 2_Ant 2_Index 3>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.74	23.82	23.71	
20	QPSK	1	49	23.66	23.65	23.68	24.7
20	QPSK	1	99	23.52	23.46	23.66	
20	QPSK	50	0	22.77	22.78	22.71	
20	QPSK	50	24	22.72	22.66	22.74	24
20	QPSK	50	50	22.64	22.58	22.71	
20	QPSK	100	0	22.70	22.69	22.72	
20	16QAM	1	0	23.06	23.20	23.04	24
20	16QAM	1	49	22.98	23.07	23.07	
20	16QAM	1	99	22.77	22.84	22.98	
20	16QAM	50	0	21.72	21.76	21.71	23
20	16QAM	50	24	21.72	21.68	21.71	
20	16QAM	50	50	21.63	21.59	21.70	
20	16QAM	100	0	21.65	21.66	21.70	23
20	64QAM	1	0	21.87	22.05	21.99	
20	64QAM	1	49	21.85	21.85	21.90	
20	64QAM	1	99	21.74	21.66	21.87	22
20	64QAM	50	0	20.76	20.76	20.72	
20	64QAM	50	24	20.77	20.70	20.73	
20	64QAM	50	50	20.67	20.59	20.72	20
20	64QAM	100	0	20.65	20.66	20.69	
20	256QAM	1	0	19.20	19.25	19.13	
20	256QAM	1	49	19.17	18.97	18.96	20
20	256QAM	1	99	18.99	18.93	18.71	
20	256QAM	50	0	18.93	19.00	18.89	
20	256QAM	50	24	18.89	18.90	18.85	20
20	256QAM	50	50	18.86	18.78	18.83	
20	256QAM	100	0	18.91	18.95	18.93	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.64	23.68	23.68	
15	QPSK	1	37	23.50	23.60	23.66	24.7
15	QPSK	1	74	23.61	23.38	23.60	
15	QPSK	36	0	22.65	22.69	22.65	
15	QPSK	36	20	22.68	22.64	22.71	24
15	QPSK	36	39	22.62	22.55	22.71	
15	QPSK	75	0	22.64	22.69	22.73	
15	16QAM	1	0	22.52	23.19	23.06	24
15	16QAM	1	37	22.81	22.87	22.93	
15	16QAM	1	74	22.84	22.81	23.04	
15	16QAM	36	0	21.73	21.72	21.79	23
15	16QAM	36	20	21.75	21.67	21.69	
15	16QAM	36	39	21.64	21.62	21.75	
15	16QAM	75	0	21.67	21.77	21.58	23
15	64QAM	1	0	21.75	22.03	22.10	
15	64QAM	1	37	21.78	21.78	21.89	
15	64QAM	1	74	21.50	21.69	22.01	22
15	64QAM	36	0	20.73	20.76	20.80	
15	64QAM	36	20	20.62	20.70	20.72	
15	64QAM	36	39	20.68	20.63	20.71	20
15	64QAM	75	0	20.68	20.68	20.64	
15	256QAM	1	0	19.02	19.10	19.13	
15	256QAM	1	37	19.06	18.81	19.02	20
15	256QAM	1	74	18.83	18.94	18.81	
15	256QAM	36	0	18.91	19.01	19.14	
15	256QAM	36	20	18.94	18.88	18.85	20



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15	256QAM	36	39	18.91	18.84	18.80	Tune-up limit (dBm)
15	256QAM	75	0	18.86	18.90	18.95	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.66	23.73	23.64	24.7
10	QPSK	1	25	23.52	23.51	23.41	
10	QPSK	1	49	23.56	23.52	23.52	
10	QPSK	25	0	22.63	22.66	22.56	24
10	QPSK	25	12	22.63	22.61	22.58	
10	QPSK	25	25	22.61	22.57	22.58	
10	QPSK	50	0	22.60	22.60	22.58	
10	16QAM	1	0	22.90	23.05	22.87	24
10	16QAM	1	25	22.79	22.88	22.89	
10	16QAM	1	49	22.83	22.85	22.78	
10	16QAM	25	0	21.68	21.73	21.64	23
10	16QAM	25	12	21.67	21.70	21.64	
10	16QAM	25	25	21.65	21.66	21.64	
10	16QAM	50	0	21.64	21.68	21.61	
10	64QAM	1	0	21.80	21.88	21.75	23
10	64QAM	1	25	21.67	21.78	21.68	
10	64QAM	1	49	21.79	21.74	21.73	
10	64QAM	25	0	20.64	20.69	20.59	22
10	64QAM	25	12	20.62	20.67	20.59	
10	64QAM	25	25	20.64	20.66	20.64	
10	64QAM	50	0	20.67	20.68	20.65	
10	256QAM	1	0	19.12	19.07	18.96	20
10	256QAM	1	25	19.02	18.88	18.81	
10	256QAM	1	49	19.04	18.89	18.78	
10	256QAM	25	0	18.90	18.98	19.04	20
10	256QAM	25	12	18.86	18.85	18.88	
10	256QAM	25	25	18.88	18.87	18.84	
10	256QAM	50	0	18.90	18.92	18.89	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.69	23.76	23.72	24.7
5	QPSK	1	12	23.75	23.78	23.80	
5	QPSK	1	24	23.74	23.70	23.75	
5	QPSK	12	0	22.85	22.88	22.87	24
5	QPSK	12	7	22.84	22.84	22.86	
5	QPSK	12	13	22.85	22.85	22.84	
5	QPSK	25	0	22.80	22.76	22.81	
5	16QAM	1	0	23.10	23.19	23.10	24
5	16QAM	1	12	23.17	23.17	23.12	
5	16QAM	1	24	23.08	23.10	23.11	
5	16QAM	12	0	21.84	21.86	21.86	23
5	16QAM	12	7	21.82	21.85	21.86	
5	16QAM	12	13	21.83	21.82	21.87	
5	16QAM	25	0	21.83	21.81	21.85	
5	64QAM	1	0	22.00	22.05	21.97	23
5	64QAM	1	12	22.02	22.03	21.92	
5	64QAM	1	24	21.98	21.94	21.94	
5	64QAM	12	0	20.84	20.79	20.83	22
5	64QAM	12	7	20.82	20.77	20.83	
5	64QAM	12	13	20.80	20.76	20.81	
5	64QAM	25	0	20.80	20.76	20.81	
5	256QAM	1	0	19.11	19.03	18.99	20
5	256QAM	1	12	19.00	18.92	18.94	
5	256QAM	1	24	19.02	18.99	18.89	
5	256QAM	12	0	18.92	18.97	18.96	20
5	256QAM	12	7	18.95	18.91	18.81	
5	256QAM	12	13	18.92	18.80	18.81	
5	256QAM	25	0	18.87	18.89	18.91	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.67	23.65	23.58	24.7
3	QPSK	1	8	23.51	23.50	23.48	
3	QPSK	1	14	23.50	23.53	23.54	
3	QPSK	8	0	22.59	22.66	22.63	24
3	QPSK	8	4	22.62	22.63	22.63	
3	QPSK	8	7	22.64	22.63	22.67	
3	QPSK	15	0	22.62	22.67	22.66	
3	16QAM	1	0	23.00	22.98	23.01	24
3	16QAM	1	8	22.85	22.88	22.88	
3	16QAM	1	14	22.90	22.95	22.97	
3	16QAM	8	0	21.59	21.64	21.64	23
3	16QAM	8	4	21.60	21.68	21.66	
3	16QAM	8	7	21.61	21.69	21.66	
3	16QAM	15	0	21.58	21.65	21.64	
3	64QAM	1	0	21.72	21.77	21.80	23
3	64QAM	1	8	21.60	21.75	21.69	
3	64QAM	1	14	21.67	21.80	21.77	
3	64QAM	8	0	20.60	20.63	20.61	22
3	64QAM	8	4	20.64	20.64	20.62	
3	64QAM	8	7	20.64	20.68	20.64	
3	64QAM	15	0	20.64	20.66	20.59	
3	256QAM	1	0	19.04	19.11	19.10	20
3	256QAM	1	8	19.00	18.94	18.80	
3	256QAM	1	14	19.08	18.97	18.84	
3	256QAM	8	0	18.86	18.87	18.87	20
3	256QAM	8	4	18.90	18.85	18.78	
3	256QAM	8	7	18.91	18.84	18.79	
3	256QAM	15	0	18.87	18.88	18.77	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.61	23.57	23.48	24.7
1.4	QPSK	1	3	23.57	23.44	23.43	
1.4	QPSK	1	5	23.56	23.59	23.46	
1.4	QPSK	3	0	23.50	23.50	23.42	
1.4	QPSK	3	1	23.51	23.49	23.53	
1.4	QPSK	3	3	23.52	23.53	23.47	
1.4	QPSK	6	0	22.56	22.58	22.52	24
1.4	16QAM	1	0	22.87	22.95	22.87	24
1.4	16QAM	1	3	22.82	22.90	22.83	
1.4	16QAM	1	5	22.89	22.95	22.80	
1.4	16QAM	3	0	22.61	22.66	22.58	
1.4	16QAM	3	1	22.62	22.74	22.59	
1.4	16QAM	3	3	22.69	22.70	22.60	23
1.4	16QAM	6	0	21.60	21.58	21.53	
1.4	64QAM	1	0	21.76	21.74	21.68	23
1.4	64QAM	1	3	21.70	21.77	21.65	
1.4	64QAM	1	5	21.71	21.77	21.73	
1.4	64QAM	3	0	21.62	21.63	21.60	
1.4	64QAM	3	1	21.71	21.72	21.66	
1.4	64QAM	3	3	21.67	21.69	21.59	
1.4	64QAM	6	0	20.57	20.59	20.48	22
1.4	256QAM	1	0	19.07	19.02	18.96	20
1.4	256QAM	1	3	19.03	19.04	18.88	
1.4	256QAM	1	5	19.04	18.89	18.85	
1.4	256QAM	3	0	18.86	18.87	18.77	
1.4	256QAM	3	1	18.95	18.94	18.72	
1.4	256QAM	3	3	18.92	18.91	18.83	
1.4	256QAM	6	0	18.90	18.83	18.79	20



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	20.02	20.22	20.06	
20	QPSK	1	49	19.91	20.00	19.93	20.9
20	QPSK	1	99	19.84	19.82	19.95	
20	QPSK	50	0	19.95	20.02	19.98	
20	QPSK	50	24	19.94	19.95	19.91	20.9
20	QPSK	50	50	19.93	19.84	19.97	
20	QPSK	100	0	19.94	19.96	19.94	
20	16QAM	1	0	20.36	20.44	20.25	20.9
20	16QAM	1	49	20.22	20.10	20.10	
20	16QAM	1	99	20.06	19.97	20.21	
20	16QAM	50	0	20.01	19.95	20.00	20.9
20	16QAM	50	24	19.95	19.87	19.96	
20	16QAM	50	50	19.92	19.80	19.93	
20	16QAM	100	0	19.88	19.97	19.97	20.9
20	64QAM	1	0	20.30	20.35	20.12	
20	64QAM	1	49	20.14	20.24	20.08	
20	64QAM	1	99	20.03	20.03	20.09	20.9
20	64QAM	50	0	20.03	19.99	19.98	
20	64QAM	50	24	20.01	19.98	20.02	
20	64QAM	50	50	19.92	19.78	19.97	20
20	64QAM	100	0	19.93	19.91	19.90	
20	256QAM	1	0	19.12	19.13	18.95	
20	256QAM	1	49	19.04	18.82	18.79	20
20	256QAM	1	99	18.91	18.77	18.70	
20	256QAM	50	0	18.85	18.86	18.86	
20	256QAM	50	24	18.83	18.80	18.72	20
20	256QAM	50	50	18.71	18.65	18.75	
20	256QAM	100	0	18.73	18.81	18.76	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.96	20.09	20.03	
15	QPSK	1	37	19.93	19.93	19.89	20.9
15	QPSK	1	74	19.84	19.77	19.99	
15	QPSK	36	0	19.94	19.86	19.86	20.9
15	QPSK	36	20	19.86	19.85	19.96	
15	QPSK	36	39	19.80	19.75	19.79	
15	QPSK	75	0	19.89	19.95	19.87	20.9
15	16QAM	1	0	20.23	20.35	20.28	
15	16QAM	1	37	20.12	19.93	20.15	
15	16QAM	1	74	20.06	19.89	20.12	20.9
15	16QAM	36	0	19.98	20.03	19.85	
15	16QAM	36	20	19.95	19.85	19.89	
15	16QAM	36	39	19.91	19.85	19.89	20.9
15	16QAM	75	0	19.85	19.97	19.90	
15	64QAM	1	0	20.17	20.37	20.04	
15	64QAM	1	37	20.15	20.18	19.92	20.9
15	64QAM	1	74	19.95	20.06	20.08	
15	64QAM	36	0	20.00	20.03	20.00	
15	64QAM	36	20	19.98	19.90	19.83	20.9
15	64QAM	36	39	19.82	19.72	19.87	
15	64QAM	75	0	19.81	19.95	19.91	
15	256QAM	1	0	19.08	19.10	18.98	20
15	256QAM	1	37	19.09	18.83	18.76	
15	256QAM	1	74	18.82	18.76	18.63	
15	256QAM	36	0	18.81	18.85	18.77	20
15	256QAM	36	20	18.74	18.83	18.63	



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15	256QAM	36	39	18.70	18.61	18.73	Tune-up limit (dBm)
15	256QAM	75	0	18.65	18.69	18.76	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	20.04	20.18	20.01	20.9
10	QPSK	1	25	19.87	19.86	19.89	
10	QPSK	1	49	19.77	19.85	19.94	
10	QPSK	25	0	20.02	19.97	19.85	20.9
10	QPSK	25	12	19.89	19.92	19.90	
10	QPSK	25	25	19.81	19.79	19.89	
10	QPSK	50	0	19.81	19.90	19.90	
10	16QAM	1	0	20.27	20.33	20.21	20.9
10	16QAM	1	25	20.20	19.96	20.12	
10	16QAM	1	49	20.02	19.90	20.21	
10	16QAM	25	0	19.98	20.01	19.93	20.9
10	16QAM	25	12	19.90	19.90	19.81	
10	16QAM	25	25	19.84	19.78	19.90	
10	16QAM	50	0	19.75	19.81	19.82	
10	64QAM	1	0	20.25	20.23	20.06	20.9
10	64QAM	1	25	20.14	20.09	20.02	
10	64QAM	1	49	20.09	19.95	20.04	
10	64QAM	25	0	19.95	20.01	19.94	20.9
10	64QAM	25	12	19.94	19.91	19.98	
10	64QAM	25	25	19.93	19.85	19.93	
10	64QAM	50	0	19.88	19.82	19.90	
10	256QAM	1	0	19.07	19.16	18.94	20
10	256QAM	1	25	18.98	18.85	18.76	
10	256QAM	1	49	18.82	18.84	18.61	
10	256QAM	25	0	18.84	18.86	18.75	20
10	256QAM	25	12	18.72	18.86	18.61	
10	256QAM	25	25	18.73	18.57	18.66	
10	256QAM	50	0	18.71	18.76	18.73	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	20.05	20.10	20.09	20.9
5	QPSK	1	12	19.90	19.84	19.92	
5	QPSK	1	24	19.88	19.68	20.00	
5	QPSK	12	0	19.94	19.93	19.85	20.9
5	QPSK	12	7	19.86	19.83	19.86	
5	QPSK	12	13	19.86	19.83	19.84	
5	QPSK	25	0	19.88	19.93	19.92	
5	16QAM	1	0	20.22	20.31	20.27	20.9
5	16QAM	1	12	20.09	20.09	20.10	
5	16QAM	1	24	20.09	20.01	20.11	
5	16QAM	12	0	19.96	20.02	19.94	20.9
5	16QAM	12	7	19.93	19.87	19.87	
5	16QAM	12	13	19.86	19.86	19.86	
5	16QAM	25	0	19.86	19.82	19.86	
5	64QAM	1	0	20.34	20.28	20.11	20.9
5	64QAM	1	12	20.11	20.12	20.01	
5	64QAM	1	24	20.01	20.05	20.00	
5	64QAM	12	0	19.93	19.89	19.98	20.9
5	64QAM	12	7	19.95	19.91	19.87	
5	64QAM	12	13	19.92	19.84	19.96	
5	64QAM	25	0	19.83	19.90	19.96	
5	256QAM	1	0	19.05	19.13	18.94	20
5	256QAM	1	12	19.08	18.77	18.75	
5	256QAM	1	24	18.87	18.76	18.68	
5	256QAM	12	0	18.86	18.82	18.77	20
5	256QAM	12	7	18.77	18.77	18.71	
5	256QAM	12	13	18.77	18.61	18.75	
5	256QAM	25	0	18.71	18.70	18.80	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.97	20.12	20.06	20.9
3	QPSK	1	8	19.91	19.99	19.83	
3	QPSK	1	14	19.88	19.78	19.96	
3	QPSK	8	0	19.84	19.96	19.93	20.9
3	QPSK	8	4	19.96	19.91	19.85	
3	QPSK	8	7	19.82	19.81	19.92	
3	QPSK	15	0	19.88	19.93	19.95	
3	16QAM	1	0	20.34	20.43	20.24	20.9
3	16QAM	1	8	20.11	20.02	20.05	
3	16QAM	1	14	20.02	20.02	20.22	
3	16QAM	8	0	19.94	19.95	19.87	20.9
3	16QAM	8	4	19.96	19.88	19.86	
3	16QAM	8	7	19.78	19.76	19.94	
3	16QAM	15	0	19.87	19.89	19.87	
3	64QAM	1	0	20.30	20.27	20.06	20.9
3	64QAM	1	8	20.08	20.22	20.04	
3	64QAM	1	14	19.95	20.02	20.04	
3	64QAM	8	0	19.95	20.02	19.90	20.9
3	64QAM	8	4	19.91	19.95	19.91	
3	64QAM	8	7	19.90	19.81	19.83	
3	64QAM	15	0	19.85	19.87	19.94	
3	256QAM	1	0	19.03	19.15	18.92	20
3	256QAM	1	8	19.03	18.82	18.80	
3	256QAM	1	14	18.84	18.71	18.64	
3	256QAM	8	0	18.88	18.89	18.82	20
3	256QAM	8	4	18.74	18.81	18.71	
3	256QAM	8	7	18.60	18.66	18.63	
3	256QAM	15	0	18.73	18.82	18.72	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	20.01	20.19	20.09	20.9
1.4	QPSK	1	3	19.95	19.90	19.93	
1.4	QPSK	1	5	19.80	19.80	19.88	
1.4	QPSK	3	0	19.91	19.92	19.83	
1.4	QPSK	3	1	19.83	19.83	19.80	
1.4	QPSK	3	3	19.75	19.82	19.89	
1.4	QPSK	6	0	19.83	19.97	19.94	20.9
1.4	16QAM	1	0	20.28	20.35	20.27	20.9
1.4	16QAM	1	3	20.21	20.09	20.14	
1.4	16QAM	1	5	20.03	19.96	20.14	
1.4	16QAM	3	0	19.89	19.92	19.92	
1.4	16QAM	3	1	19.98	19.82	19.94	
1.4	16QAM	3	3	19.77	19.85	19.89	
1.4	16QAM	6	0	19.86	19.84	19.87	20.9
1.4	64QAM	1	0	20.27	20.29	20.04	20.9
1.4	64QAM	1	3	20.17	20.13	19.96	
1.4	64QAM	1	5	20.04	20.02	20.02	
1.4	64QAM	3	0	20.12	20.17	20.13	
1.4	64QAM	3	1	20.11	20.04	20.07	
1.4	64QAM	3	3	20.09	20.04	20.10	
1.4	64QAM	6	0	19.95	19.89	19.94	20.9
1.4	256QAM	1	0	19.07	19.16	18.90	20
1.4	256QAM	1	3	19.00	18.86	18.76	
1.4	256QAM	1	5	18.86	18.76	18.56	
1.4	256QAM	3	0	18.76	18.79	18.80	
1.4	256QAM	3	1	18.75	18.71	18.69	
1.4	256QAM	3	3	18.69	18.63	18.67	
1.4	256QAM	6	0	18.65	18.79	18.71	20

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	20.02	20.22	20.06	
20	QPSK	1	49	19.91	20.00	19.93	21.7
20	QPSK	1	99	19.84	19.82	19.95	
20	QPSK	50	0	19.95	20.02	19.98	
20	QPSK	50	24	19.94	19.95	19.91	21.7
20	QPSK	50	50	19.93	19.84	19.97	
20	QPSK	100	0	19.94	19.96	19.94	
20	16QAM	1	0	20.36	20.44	20.25	21.7
20	16QAM	1	49	20.22	20.10	20.10	
20	16QAM	1	99	20.06	19.97	20.21	
20	16QAM	50	0	20.01	19.95	20.00	21.7
20	16QAM	50	24	19.95	19.87	19.96	
20	16QAM	50	50	19.92	19.80	19.93	
20	16QAM	100	0	19.88	19.97	19.97	21.7
20	64QAM	1	0	20.30	20.35	20.12	
20	64QAM	1	49	20.14	20.24	20.08	
20	64QAM	1	99	20.03	20.03	20.09	21.7
20	64QAM	50	0	20.03	19.99	19.98	
20	64QAM	50	24	20.01	19.98	20.02	
20	64QAM	50	50	19.92	19.78	19.97	20
20	64QAM	100	0	19.93	19.91	19.90	
20	256QAM	1	0	19.12	19.13	18.95	
20	256QAM	1	49	19.04	18.82	18.79	20
20	256QAM	1	99	18.91	18.77	18.70	
20	256QAM	50	0	18.85	18.86	18.86	
20	256QAM	50	24	18.83	18.80	18.72	20
20	256QAM	50	50	18.71	18.65	18.75	
20	256QAM	100	0	18.73	18.81	18.76	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.96	20.09	20.03	
15	QPSK	1	37	19.93	19.93	19.89	21.7
15	QPSK	1	74	19.84	19.77	19.99	
15	QPSK	36	0	19.94	19.86	19.86	
15	QPSK	36	20	19.86	19.85	19.96	21.7
15	QPSK	36	39	19.80	19.75	19.79	
15	QPSK	75	0	19.89	19.95	19.87	
15	16QAM	1	0	20.23	20.35	20.28	21.7
15	16QAM	1	37	20.12	19.93	20.15	
15	16QAM	1	74	20.06	19.89	20.12	
15	16QAM	36	0	19.98	20.03	19.85	21.7
15	16QAM	36	20	19.95	19.85	19.89	
15	16QAM	36	39	19.91	19.85	19.89	
15	16QAM	75	0	19.85	19.97	19.90	21.7
15	64QAM	1	0	20.17	20.37	20.04	
15	64QAM	1	37	20.15	20.18	19.92	
15	64QAM	1	74	19.95	20.06	20.08	21.7
15	64QAM	36	0	20.00	20.03	20.00	
15	64QAM	36	20	19.98	19.90	19.83	
15	64QAM	36	39	19.82	19.72	19.87	20
15	64QAM	75	0	19.81	19.95	19.91	
15	256QAM	1	0	19.08	19.10	18.98	
15	256QAM	1	37	19.09	18.83	18.76	20
15	256QAM	1	74	18.82	18.76	18.63	
15	256QAM	36	0	18.81	18.85	18.77	
15	256QAM	36	20	18.74	18.83	18.63	20



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15	256QAM	36	39	18.70	18.61	18.73	Tune-up limit (dBm)
15	256QAM	75	0	18.65	18.69	18.76	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	20.04	20.18	20.01	21.7
10	QPSK	1	25	19.87	19.86	19.89	
10	QPSK	1	49	19.77	19.85	19.94	
10	QPSK	25	0	20.02	19.97	19.85	21.7
10	QPSK	25	12	19.89	19.92	19.90	
10	QPSK	25	25	19.81	19.79	19.89	
10	QPSK	50	0	19.81	19.90	19.90	
10	16QAM	1	0	20.27	20.33	20.21	21.7
10	16QAM	1	25	20.20	19.96	20.12	
10	16QAM	1	49	20.02	19.90	20.21	
10	16QAM	25	0	19.98	20.01	19.93	21.7
10	16QAM	25	12	19.90	19.90	19.81	
10	16QAM	25	25	19.84	19.78	19.90	
10	16QAM	50	0	19.75	19.81	19.82	
10	64QAM	1	0	20.25	20.23	20.06	21.7
10	64QAM	1	25	20.14	20.09	20.02	
10	64QAM	1	49	20.09	19.95	20.04	
10	64QAM	25	0	19.95	20.01	19.94	21.7
10	64QAM	25	12	19.94	19.91	19.98	
10	64QAM	25	25	19.93	19.85	19.93	
10	64QAM	50	0	19.88	19.82	19.90	
10	256QAM	1	0	19.07	19.16	18.94	20
10	256QAM	1	25	18.98	18.85	18.76	
10	256QAM	1	49	18.82	18.84	18.61	
10	256QAM	25	0	18.84	18.86	18.75	20
10	256QAM	25	12	18.72	18.86	18.61	
10	256QAM	25	25	18.73	18.57	18.66	
10	256QAM	50	0	18.71	18.76	18.73	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	20.05	20.10	20.09	21.7
5	QPSK	1	12	19.90	19.84	19.92	
5	QPSK	1	24	19.88	19.68	20.00	
5	QPSK	12	0	19.94	19.93	19.85	21.7
5	QPSK	12	7	19.86	19.83	19.86	
5	QPSK	12	13	19.86	19.83	19.84	
5	QPSK	25	0	19.88	19.93	19.92	
5	16QAM	1	0	20.22	20.31	20.27	21.7
5	16QAM	1	12	20.09	20.09	20.10	
5	16QAM	1	24	20.09	20.01	20.11	
5	16QAM	12	0	19.96	20.02	19.94	21.7
5	16QAM	12	7	19.93	19.87	19.87	
5	16QAM	12	13	19.86	19.86	19.86	
5	16QAM	25	0	19.86	19.82	19.86	
5	64QAM	1	0	20.34	20.28	20.11	21.7
5	64QAM	1	12	20.11	20.12	20.01	
5	64QAM	1	24	20.01	20.05	20.00	
5	64QAM	12	0	19.93	19.89	19.98	21.7
5	64QAM	12	7	19.95	19.91	19.87	
5	64QAM	12	13	19.92	19.84	19.96	
5	64QAM	25	0	19.83	19.90	19.96	
5	256QAM	1	0	19.05	19.13	18.94	20
5	256QAM	1	12	19.08	18.77	18.75	
5	256QAM	1	24	18.87	18.76	18.68	
5	256QAM	12	0	18.86	18.82	18.77	20
5	256QAM	12	7	18.77	18.77	18.71	
5	256QAM	12	13	18.77	18.61	18.75	
5	256QAM	25	0	18.71	18.70	18.80	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.97	20.12	20.06	21.7
3	QPSK	1	8	19.91	19.99	19.83	
3	QPSK	1	14	19.88	19.78	19.96	
3	QPSK	8	0	19.84	19.96	19.93	21.7
3	QPSK	8	4	19.96	19.91	19.85	
3	QPSK	8	7	19.82	19.81	19.92	
3	QPSK	15	0	19.88	19.93	19.95	
3	16QAM	1	0	20.34	20.43	20.24	21.7
3	16QAM	1	8	20.11	20.02	20.05	
3	16QAM	1	14	20.02	20.02	20.22	
3	16QAM	8	0	19.94	19.95	19.87	21.7
3	16QAM	8	4	19.96	19.88	19.86	
3	16QAM	8	7	19.78	19.76	19.94	
3	16QAM	15	0	19.87	19.89	19.87	
3	64QAM	1	0	20.30	20.27	20.06	21.7
3	64QAM	1	8	20.08	20.22	20.04	
3	64QAM	1	14	19.95	20.02	20.04	
3	64QAM	8	0	19.95	20.02	19.90	21.7
3	64QAM	8	4	19.91	19.95	19.91	
3	64QAM	8	7	19.90	19.81	19.83	
3	64QAM	15	0	19.85	19.87	19.94	
3	256QAM	1	0	19.03	19.15	18.92	20
3	256QAM	1	8	19.03	18.82	18.80	
3	256QAM	1	14	18.84	18.71	18.64	
3	256QAM	8	0	18.88	18.89	18.82	20
3	256QAM	8	4	18.74	18.81	18.71	
3	256QAM	8	7	18.60	18.66	18.63	
3	256QAM	15	0	18.73	18.82	18.72	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	20.01	20.19	20.09	21.7
1.4	QPSK	1	3	19.95	19.90	19.93	
1.4	QPSK	1	5	19.80	19.80	19.88	
1.4	QPSK	3	0	19.91	19.92	19.83	
1.4	QPSK	3	1	19.83	19.83	19.80	
1.4	QPSK	3	3	19.75	19.82	19.89	
1.4	QPSK	6	0	19.83	19.97	19.94	21.7
1.4	16QAM	1	0	20.28	20.35	20.27	21.7
1.4	16QAM	1	3	20.21	20.09	20.14	
1.4	16QAM	1	5	20.03	19.96	20.14	
1.4	16QAM	3	0	19.89	19.92	19.92	
1.4	16QAM	3	1	19.98	19.82	19.94	
1.4	16QAM	3	3	19.77	19.85	19.89	
1.4	16QAM	6	0	19.86	19.84	19.87	21.7
1.4	64QAM	1	0	20.27	20.29	20.04	21.7
1.4	64QAM	1	3	20.17	20.13	19.96	
1.4	64QAM	1	5	20.04	20.02	20.02	
1.4	64QAM	3	0	20.12	20.17	20.13	
1.4	64QAM	3	1	20.11	20.04	20.07	
1.4	64QAM	3	3	20.09	20.04	20.10	
1.4	64QAM	6	0	19.95	19.89	19.94	21.7
1.4	256QAM	1	0	19.07	19.16	18.90	20
1.4	256QAM	1	3	19.00	18.86	18.76	
1.4	256QAM	1	5	18.86	18.76	18.56	
1.4	256QAM	3	0	18.76	18.79	18.80	
1.4	256QAM	3	1	18.75	18.71	18.69	
1.4	256QAM	3	3	18.69	18.63	18.67	
1.4	256QAM	6	0	18.65	18.79	18.71	20



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.90	23.09	23.21	
20	QPSK	1	49	22.89	23.07	23.12	25.2
20	QPSK	1	99	22.78	22.79	22.82	
20	QPSK	50	0	21.96	22.11	22.18	
20	QPSK	50	24	22.06	22.15	22.14	24.2
20	QPSK	50	50	22.04	22.11	22.07	
20	QPSK	100	0	22.04	22.11	22.10	
20	16QAM	1	0	22.37	22.43	22.54	24.2
20	16QAM	1	49	22.30	22.33	22.46	
20	16QAM	1	99	22.33	22.33	22.30	
20	16QAM	50	0	21.11	21.17	21.22	23.2
20	16QAM	50	24	21.23	21.18	21.22	
20	16QAM	50	50	21.21	21.25	21.25	
20	16QAM	100	0	21.19	21.28	21.27	23.2
20	64QAM	1	0	21.34	21.55	21.57	
20	64QAM	1	49	21.33	21.46	21.51	
20	64QAM	1	99	21.48	21.34	21.28	22.2
20	64QAM	50	0	20.42	20.37	20.41	
20	64QAM	50	24	20.40	20.37	20.43	
20	64QAM	50	50	20.40	20.35	20.41	20.2
20	64QAM	100	0	20.36	20.40	20.47	
20	256QAM	1	0	18.63	18.83	18.75	
20	256QAM	1	49	18.63	18.85	18.63	20.2
20	256QAM	1	99	18.86	18.79	18.62	
20	256QAM	50	0	18.49	18.54	18.53	
20	256QAM	50	24	18.57	18.60	18.54	20.2
20	256QAM	50	50	18.63	18.61	18.50	
20	256QAM	100	0	18.68	18.60	18.54	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.99	23.08	23.07	
15	QPSK	1	37	22.93	22.87	22.84	25.2
15	QPSK	1	74	23.01	22.88	22.77	
15	QPSK	36	0	22.03	21.93	21.95	
15	QPSK	36	20	22.00	21.93	21.91	24.2
15	QPSK	36	39	21.99	21.91	21.85	
15	QPSK	75	0	22.00	21.89	21.87	
15	16QAM	1	0	22.32	22.26	22.32	24.2
15	16QAM	1	37	22.31	22.29	22.20	
15	16QAM	1	74	22.26	22.16	22.08	
15	16QAM	36	0	21.02	21.05	21.04	23.2
15	16QAM	36	20	21.16	21.12	21.12	
15	16QAM	36	39	21.16	21.13	21.09	
15	16QAM	75	0	21.17	21.11	21.08	23.2
15	64QAM	1	0	21.42	21.34	21.36	
15	64QAM	1	37	21.38	21.44	21.40	
15	64QAM	1	74	21.38	21.30	21.21	22.2
15	64QAM	36	0	20.27	20.28	20.30	
15	64QAM	36	20	20.35	20.33	20.32	
15	64QAM	36	39	20.35	20.32	20.27	20.2
15	64QAM	75	0	20.28	20.23	20.25	
15	256QAM	1	0	18.62	18.75	18.74	
15	256QAM	1	37	18.59	18.82	18.57	20.2
15	256QAM	1	74	18.77	18.77	18.54	
15	256QAM	36	0	18.43	18.46	18.53	
15	256QAM	36	20	18.54	18.59	18.49	20.2



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15	256QAM	36	39	18.55	18.59	18.48	Tune-up limit (dBm)
15	256QAM	75	0	18.67	18.51	18.45	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.19	23.20	23.20	25.2
10	QPSK	1	25	22.96	22.96	23.03	
10	QPSK	1	49	23.04	23.00	22.90	
10	QPSK	25	0	22.15	22.04	22.04	24.2
10	QPSK	25	12	22.14	22.03	22.08	
10	QPSK	25	25	22.12	22.02	22.08	
10	QPSK	50	0	22.16	22.05	22.13	
10	16QAM	1	0	22.39	22.36	22.43	24.2
10	16QAM	1	25	22.27	22.25	22.27	
10	16QAM	1	49	22.32	22.29	22.18	
10	16QAM	25	0	21.14	21.19	21.23	23.2
10	16QAM	25	12	21.25	21.25	21.22	
10	16QAM	25	25	21.29	21.24	21.20	
10	16QAM	50	0	21.29	21.23	21.32	
10	64QAM	1	0	21.55	21.46	21.62	23.2
10	64QAM	1	25	21.43	21.44	21.50	
10	64QAM	1	49	21.46	21.58	21.56	
10	64QAM	25	0	20.29	20.38	20.39	22.2
10	64QAM	25	12	20.39	20.38	20.37	
10	64QAM	25	25	20.41	20.36	20.32	
10	64QAM	50	0	20.46	20.41	20.39	
10	256QAM	1	0	18.54	18.75	18.74	20.2
10	256QAM	1	25	18.56	18.82	18.57	
10	256QAM	1	49	18.77	18.79	18.56	
10	256QAM	25	0	18.47	18.47	18.46	20.2
10	256QAM	25	12	18.47	18.55	18.52	
10	256QAM	25	25	18.60	18.56	18.50	
10	256QAM	50	0	18.67	18.55	18.44	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.93	22.98	23.03	25.2
5	QPSK	1	12	22.97	22.90	22.96	
5	QPSK	1	24	22.98	22.88	22.79	
5	QPSK	12	0	21.99	21.94	21.90	24.2
5	QPSK	12	7	21.98	21.93	21.90	
5	QPSK	12	13	21.98	21.94	21.92	
5	QPSK	25	0	22.00	21.91	21.92	
5	16QAM	1	0	22.29	22.33	22.32	24.2
5	16QAM	1	12	22.24	22.33	22.18	
5	16QAM	1	24	22.23	22.22	22.15	
5	16QAM	12	0	21.04	21.09	21.10	23.2
5	16QAM	12	7	21.05	21.20	21.14	
5	16QAM	12	13	21.10	21.19	21.12	
5	16QAM	25	0	21.18	21.14	21.13	
5	64QAM	1	0	21.33	21.36	21.49	23.2
5	64QAM	1	12	21.37	21.35	21.50	
5	64QAM	1	24	21.31	21.38	21.41	
5	64QAM	12	0	20.19	20.31	20.28	22.2
5	64QAM	12	7	20.16	20.33	20.28	
5	64QAM	12	13	20.17	20.31	20.25	
5	64QAM	25	0	20.21	20.27	20.23	
5	256QAM	1	0	18.60	18.83	18.73	20.2
5	256QAM	1	12	18.61	18.80	18.60	
5	256QAM	1	24	18.83	18.73	18.54	
5	256QAM	12	0	18.49	18.48	18.43	20.2
5	256QAM	12	7	18.52	18.52	18.50	
5	256QAM	12	13	18.62	18.61	18.45	
5	256QAM	25	0	18.64	18.52	18.54	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	23.00	23.10	23.14	25.2
3	QPSK	1	8	22.89	22.88	22.88	
3	QPSK	1	14	22.95	22.87	22.93	
3	QPSK	8	0	21.96	21.97	21.99	24.2
3	QPSK	8	4	21.96	22.06	21.99	
3	QPSK	8	7	21.96	22.06	21.99	
3	QPSK	15	0	22.01	22.11	22.03	
3	16QAM	1	0	22.30	22.47	22.45	24.2
3	16QAM	1	8	22.21	22.31	22.33	
3	16QAM	1	14	22.27	22.37	22.38	
3	16QAM	8	0	21.01	21.14	21.06	23.2
3	16QAM	8	4	21.04	21.19	21.21	
3	16QAM	8	7	21.13	21.32	21.21	
3	16QAM	15	0	21.18	21.31	21.25	
3	64QAM	1	0	21.34	21.42	21.46	23.2
3	64QAM	1	8	21.29	21.40	21.35	
3	64QAM	1	14	21.34	21.42	21.39	
3	64QAM	8	0	20.20	20.31	20.25	22.2
3	64QAM	8	4	20.20	20.40	20.41	
3	64QAM	8	7	20.29	20.45	20.39	
3	64QAM	15	0	20.35	20.50	20.41	
3	256QAM	1	0	18.57	18.77	18.67	20.2
3	256QAM	1	8	18.59	18.81	18.61	
3	256QAM	1	14	18.85	18.76	18.53	
3	256QAM	8	0	18.47	18.53	18.49	20.2
3	256QAM	8	4	18.48	18.50	18.52	
3	256QAM	8	7	18.57	18.56	18.43	
3	256QAM	15	0	18.68	18.59	18.54	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.99	23.03	23.07	25.2
1.4	QPSK	1	3	22.80	22.90	22.85	
1.4	QPSK	1	5	22.90	22.89	22.95	
1.4	QPSK	3	0	22.87	22.84	22.87	
1.4	QPSK	3	1	22.96	22.86	22.91	
1.4	QPSK	3	3	22.90	22.85	22.78	
1.4	QPSK	6	0	21.88	21.94	21.91	24.2
1.4	16QAM	1	0	22.16	22.38	22.35	24.2
1.4	16QAM	1	3	22.10	22.28	22.19	
1.4	16QAM	1	5	22.17	22.39	22.32	
1.4	16QAM	3	0	21.96	22.15	22.06	
1.4	16QAM	3	1	21.96	22.19	22.08	
1.4	16QAM	3	3	21.97	22.11	22.04	23.2
1.4	16QAM	6	0	20.94	21.13	21.07	
1.4	64QAM	1	0	21.25	21.46	21.46	23.2
1.4	64QAM	1	3	21.22	21.40	21.31	
1.4	64QAM	1	5	21.28	21.43	21.37	
1.4	64QAM	3	0	21.11	21.28	21.26	
1.4	64QAM	3	1	21.20	21.31	21.28	
1.4	64QAM	3	3	21.09	21.25	21.18	22.2
1.4	64QAM	6	0	20.11	20.38	20.32	
1.4	256QAM	1	0	18.61	18.68	18.59	20.2
1.4	256QAM	1	3	18.53	18.58	18.44	
1.4	256QAM	1	5	18.60	18.61	18.45	
1.4	256QAM	3	0	18.45	18.46	18.38	
1.4	256QAM	3	1	18.49	18.50	18.38	
1.4	256QAM	3	3	18.48	18.50	18.41	20.2
1.4	256QAM	6	0	18.42	18.43	18.37	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.90	23.09	23.21	
20	QPSK	1	49	22.89	23.07	23.12	23.6
20	QPSK	1	99	22.78	22.79	22.82	
20	QPSK	50	0	21.96	22.11	22.18	
20	QPSK	50	24	22.06	22.15	22.14	23.6
20	QPSK	50	50	22.04	22.11	22.07	
20	QPSK	100	0	22.04	22.11	22.10	
20	16QAM	1	0	22.37	22.43	22.54	23.6
20	16QAM	1	49	22.30	22.33	22.46	
20	16QAM	1	99	22.33	22.33	22.30	
20	16QAM	50	0	21.11	21.17	21.22	23.2
20	16QAM	50	24	21.23	21.18	21.22	
20	16QAM	50	50	21.21	21.25	21.25	
20	16QAM	100	0	21.19	21.28	21.27	23.2
20	64QAM	1	0	21.34	21.55	21.57	
20	64QAM	1	49	21.33	21.46	21.51	
20	64QAM	1	99	21.48	21.34	21.28	22.2
20	64QAM	50	0	20.42	20.37	20.41	
20	64QAM	50	24	20.40	20.37	20.43	
20	64QAM	50	50	20.40	20.35	20.41	20.2
20	64QAM	100	0	20.36	20.40	20.47	
20	256QAM	1	0	18.63	18.83	18.75	
20	256QAM	1	49	18.63	18.85	18.63	20.2
20	256QAM	1	99	18.86	18.79	18.62	
20	256QAM	50	0	18.49	18.54	18.53	
20	256QAM	50	24	18.57	18.60	18.54	20.2
20	256QAM	50	50	18.63	18.61	18.50	
20	256QAM	100	0	18.68	18.60	18.54	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.99	23.08	23.07	
15	QPSK	1	37	22.93	22.87	22.84	23.6
15	QPSK	1	74	23.01	22.88	22.77	
15	QPSK	36	0	22.03	21.93	21.95	
15	QPSK	36	20	22.00	21.93	21.91	23.6
15	QPSK	36	39	21.99	21.91	21.85	
15	QPSK	75	0	22.00	21.89	21.87	
15	16QAM	1	0	22.32	22.26	22.32	23.6
15	16QAM	1	37	22.31	22.29	22.20	
15	16QAM	1	74	22.26	22.16	22.08	
15	16QAM	36	0	21.02	21.05	21.04	23.2
15	16QAM	36	20	21.16	21.12	21.12	
15	16QAM	36	39	21.16	21.13	21.09	
15	16QAM	75	0	21.17	21.11	21.08	23.2
15	64QAM	1	0	21.42	21.34	21.36	
15	64QAM	1	37	21.38	21.44	21.40	
15	64QAM	1	74	21.38	21.30	21.21	22.2
15	64QAM	36	0	20.27	20.28	20.30	
15	64QAM	36	20	20.35	20.33	20.32	
15	64QAM	36	39	20.35	20.32	20.27	20.2
15	64QAM	75	0	20.28	20.23	20.25	
15	256QAM	1	0	18.62	18.75	18.74	
15	256QAM	1	37	18.59	18.82	18.57	20.2
15	256QAM	1	74	18.77	18.77	18.54	
15	256QAM	36	0	18.43	18.46	18.53	
15	256QAM	36	20	18.54	18.59	18.49	20.2



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15	256QAM	36	39	18.55	18.59	18.48	Tune-up limit (dBm)
15	256QAM	75	0	18.67	18.51	18.45	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.19	23.20	23.20	23.6
10	QPSK	1	25	22.96	22.96	23.03	
10	QPSK	1	49	23.04	23.00	22.90	
10	QPSK	25	0	22.15	22.04	22.04	23.6
10	QPSK	25	12	22.14	22.03	22.08	
10	QPSK	25	25	22.12	22.02	22.08	
10	QPSK	50	0	22.16	22.05	22.13	
10	16QAM	1	0	22.39	22.36	22.43	23.6
10	16QAM	1	25	22.27	22.25	22.27	
10	16QAM	1	49	22.32	22.29	22.18	
10	16QAM	25	0	21.14	21.19	21.23	23.2
10	16QAM	25	12	21.25	21.25	21.22	
10	16QAM	25	25	21.29	21.24	21.20	
10	16QAM	50	0	21.29	21.23	21.32	
10	64QAM	1	0	21.55	21.46	21.62	23.2
10	64QAM	1	25	21.43	21.44	21.50	
10	64QAM	1	49	21.46	21.58	21.56	
10	64QAM	25	0	20.29	20.38	20.39	22.2
10	64QAM	25	12	20.39	20.38	20.37	
10	64QAM	25	25	20.41	20.36	20.32	
10	64QAM	50	0	20.46	20.41	20.39	
10	256QAM	1	0	18.54	18.75	18.74	20.2
10	256QAM	1	25	18.56	18.82	18.57	
10	256QAM	1	49	18.77	18.79	18.56	
10	256QAM	25	0	18.47	18.47	18.46	20.2
10	256QAM	25	12	18.47	18.55	18.52	
10	256QAM	25	25	18.60	18.56	18.50	
10	256QAM	50	0	18.67	18.55	18.44	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.93	22.98	23.03	23.6
5	QPSK	1	12	22.97	22.90	22.96	
5	QPSK	1	24	22.98	22.88	22.79	
5	QPSK	12	0	21.99	21.94	21.90	23.6
5	QPSK	12	7	21.98	21.93	21.90	
5	QPSK	12	13	21.98	21.94	21.92	
5	QPSK	25	0	22.00	21.91	21.92	
5	16QAM	1	0	22.29	22.33	22.32	23.6
5	16QAM	1	12	22.24	22.33	22.18	
5	16QAM	1	24	22.23	22.22	22.15	
5	16QAM	12	0	21.04	21.09	21.10	23.2
5	16QAM	12	7	21.05	21.20	21.14	
5	16QAM	12	13	21.10	21.19	21.12	
5	16QAM	25	0	21.18	21.14	21.13	
5	64QAM	1	0	21.33	21.36	21.49	23.2
5	64QAM	1	12	21.37	21.35	21.50	
5	64QAM	1	24	21.31	21.38	21.41	
5	64QAM	12	0	20.19	20.31	20.28	22.2
5	64QAM	12	7	20.16	20.33	20.28	
5	64QAM	12	13	20.17	20.31	20.25	
5	64QAM	25	0	20.21	20.27	20.23	
5	256QAM	1	0	18.60	18.83	18.73	20.2
5	256QAM	1	12	18.61	18.80	18.60	
5	256QAM	1	24	18.83	18.73	18.54	
5	256QAM	12	0	18.49	18.48	18.43	20.2
5	256QAM	12	7	18.52	18.52	18.50	
5	256QAM	12	13	18.62	18.61	18.45	
5	256QAM	25	0	18.64	18.52	18.54	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	23.00	23.10	23.14	23.6
3	QPSK	1	8	22.89	22.88	22.88	
3	QPSK	1	14	22.95	22.87	22.93	
3	QPSK	8	0	21.96	21.97	21.99	23.6
3	QPSK	8	4	21.96	22.06	21.99	
3	QPSK	8	7	21.96	22.06	21.99	
3	QPSK	15	0	22.01	22.11	22.03	23.6
3	16QAM	1	0	22.30	22.47	22.45	
3	16QAM	1	8	22.21	22.31	22.33	
3	16QAM	1	14	22.27	22.37	22.38	23.2
3	16QAM	8	0	21.01	21.14	21.06	
3	16QAM	8	4	21.04	21.19	21.21	
3	16QAM	8	7	21.13	21.32	21.21	23.2
3	16QAM	15	0	21.18	21.31	21.25	
3	64QAM	1	0	21.34	21.42	21.46	
3	64QAM	1	8	21.29	21.40	21.35	22.2
3	64QAM	1	14	21.34	21.42	21.39	
3	64QAM	8	0	20.20	20.31	20.25	
3	64QAM	8	4	20.20	20.40	20.41	20.2
3	64QAM	8	7	20.29	20.45	20.39	
3	64QAM	15	0	20.35	20.50	20.41	
3	256QAM	1	0	18.57	18.77	18.67	20.2
3	256QAM	1	8	18.59	18.81	18.61	
3	256QAM	1	14	18.85	18.76	18.53	
3	256QAM	8	0	18.47	18.53	18.49	20.2
3	256QAM	8	4	18.48	18.50	18.52	
3	256QAM	8	7	18.57	18.56	18.43	
3	256QAM	15	0	18.68	18.59	18.54	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.99	23.03	23.07	23.6
1.4	QPSK	1	3	22.80	22.90	22.85	
1.4	QPSK	1	5	22.90	22.89	22.95	
1.4	QPSK	3	0	22.87	22.84	22.87	23.6
1.4	QPSK	3	1	22.96	22.86	22.91	
1.4	QPSK	3	3	22.90	22.85	22.78	
1.4	QPSK	6	0	21.88	21.94	21.91	23.6
1.4	16QAM	1	0	22.16	22.38	22.35	
1.4	16QAM	1	3	22.10	22.28	22.19	
1.4	16QAM	1	5	22.17	22.39	22.32	23.2
1.4	16QAM	3	0	21.96	22.15	22.06	
1.4	16QAM	3	1	21.96	22.19	22.08	
1.4	16QAM	3	3	21.97	22.11	22.04	23.2
1.4	16QAM	6	0	20.94	21.13	21.07	
1.4	64QAM	1	0	21.25	21.46	21.46	
1.4	64QAM	1	3	21.22	21.40	21.31	22.2
1.4	64QAM	1	5	21.28	21.43	21.37	
1.4	64QAM	3	0	21.11	21.28	21.26	
1.4	64QAM	3	1	21.20	21.31	21.28	20.2
1.4	64QAM	3	3	21.09	21.25	21.18	
1.4	64QAM	6	0	20.11	20.38	20.32	
1.4	256QAM	1	0	18.61	18.68	18.59	20.2
1.4	256QAM	1	3	18.53	18.58	18.44	
1.4	256QAM	1	5	18.60	18.61	18.45	
1.4	256QAM	3	0	18.45	18.46	18.38	20.2
1.4	256QAM	3	1	18.49	18.50	18.38	
1.4	256QAM	3	3	18.48	18.50	18.41	
1.4	256QAM	6	0	18.42	18.43	18.37	

**<LTE Band 4_Ant 2_Index 2>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.07	23.88	23.93	
20	QPSK	1	49	23.82	23.84	23.86	25.7
20	QPSK	1	99	23.79	23.72	23.71	
20	QPSK	50	0	22.91	22.77	22.77	
20	QPSK	50	24	22.90	22.82	22.75	24.7
20	QPSK	50	50	22.87	22.81	22.70	
20	QPSK	100	0	22.86	22.79	22.71	
20	16QAM	1	0	23.14	23.04	23.17	24.7
20	16QAM	1	49	23.03	23.05	23.09	
20	16QAM	1	99	22.99	22.93	22.94	
20	16QAM	50	0	21.86	21.88	21.87	23.7
20	16QAM	50	24	21.88	21.90	21.91	
20	16QAM	50	50	21.88	21.90	21.85	
20	16QAM	100	0	21.85	21.85	21.86	23.7
20	64QAM	1	0	22.08	22.22	22.26	
20	64QAM	1	49	22.13	22.16	22.18	
20	64QAM	1	99	22.09	22.09	21.94	22.7
20	64QAM	50	0	21.09	21.10	21.08	
20	64QAM	50	24	21.10	21.12	21.14	
20	64QAM	50	50	21.07	21.07	21.05	20.7
20	64QAM	100	0	21.02	21.03	21.02	
20	256QAM	1	0	20.11	20.41	20.19	
20	256QAM	1	49	20.17	20.16	20.30	20.7
20	256QAM	1	99	20.25	20.24	20.22	
20	256QAM	50	0	19.92	19.96	19.97	
20	256QAM	50	24	19.99	19.99	19.98	20.7
20	256QAM	50	50	20.01	20.01	19.95	
20	256QAM	100	0	20.01	20.02	19.98	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.84	23.65	23.61	
15	QPSK	1	37	23.55	23.46	23.48	25.7
15	QPSK	1	74	23.47	23.54	23.29	
15	QPSK	36	0	22.61	22.61	22.62	
15	QPSK	36	20	22.71	22.55	22.61	24.7
15	QPSK	36	39	22.70	22.58	22.45	
15	QPSK	75	0	22.67	22.50	22.57	
15	16QAM	1	0	22.72	22.59	23.01	24.7
15	16QAM	1	37	22.77	22.81	23.35	
15	16QAM	1	74	22.59	22.48	22.72	
15	16QAM	36	0	21.59	21.60	21.78	23.7
15	16QAM	36	20	21.50	21.65	21.66	
15	16QAM	36	39	21.68	21.60	21.65	
15	16QAM	75	0	21.63	21.68	21.52	23.7
15	64QAM	1	0	22.23	21.82	21.81	
15	64QAM	1	37	21.84	21.79	21.98	
15	64QAM	1	74	22.25	21.71	21.78	22.7
15	64QAM	36	0	20.74	20.79	20.81	
15	64QAM	36	20	20.80	20.77	20.88	
15	64QAM	36	39	20.73	20.67	20.74	20.7
15	64QAM	75	0	20.66	20.72	20.73	
15	256QAM	1	0	20.33	20.31	20.43	
15	256QAM	1	37	20.26	20.28	20.32	20.7
15	256QAM	1	74	20.21	20.27	20.30	
15	256QAM	36	0	20.04	20.07	20.11	
15	256QAM	36	20	20.04	20.12	20.08	20.7



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15	256QAM	36	39	20.05	20.11	20.06	Tune-up limit (dBm)
15	256QAM	75	0	20.03	20.08	20.02	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	24.05	23.88	23.90	25.7
10	QPSK	1	25	23.77	23.75	23.67	
10	QPSK	1	49	23.78	23.81	23.56	
10	QPSK	25	0	22.90	22.92	22.76	24.7
10	QPSK	25	12	22.89	22.89	22.82	
10	QPSK	25	25	22.88	22.92	22.82	
10	QPSK	50	0	22.93	22.94	22.88	
10	16QAM	1	0	23.16	23.21	23.24	24.7
10	16QAM	1	25	23.12	23.18	23.07	
10	16QAM	1	49	23.07	23.13	22.89	
10	16QAM	25	0	21.96	21.99	21.97	23.7
10	16QAM	25	12	22.01	22.10	21.97	
10	16QAM	25	25	22.06	22.13	22.01	
10	16QAM	50	0	22.05	22.09	22.06	
10	64QAM	1	0	22.22	22.32	22.39	23.7
10	64QAM	1	25	22.27	22.37	22.37	
10	64QAM	1	49	22.30	22.31	22.33	
10	64QAM	25	0	21.14	21.16	21.14	22.7
10	64QAM	25	12	21.10	21.13	21.14	
10	64QAM	25	25	21.09	21.17	21.13	
10	64QAM	50	0	21.13	21.23	21.22	
10	256QAM	1	0	20.00	20.27	19.99	20.7
10	256QAM	1	25	20.01	19.98	20.15	
10	256QAM	1	49	20.07	20.12	20.07	
10	256QAM	25	0	19.77	19.86	19.81	20.7
10	256QAM	25	12	19.89	19.87	19.78	
10	256QAM	25	25	19.83	19.87	19.78	
10	256QAM	50	0	19.86	19.86	19.82	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.54	23.61	23.56	25.7
5	QPSK	1	12	23.60	23.69	23.58	
5	QPSK	1	24	23.55	23.63	23.51	
5	QPSK	12	0	22.61	22.68	22.63	24.7
5	QPSK	12	7	22.63	22.70	22.62	
5	QPSK	12	13	22.63	22.69	22.61	
5	QPSK	25	0	22.61	22.65	22.56	
5	16QAM	1	0	22.92	23.01	22.98	24.7
5	16QAM	1	12	22.94	22.93	22.99	
5	16QAM	1	24	22.85	22.98	22.97	
5	16QAM	12	0	21.65	21.73	21.73	23.7
5	16QAM	12	7	21.65	21.72	21.71	
5	16QAM	12	13	21.65	21.71	21.67	
5	16QAM	25	0	21.63	21.69	21.63	
5	64QAM	1	0	21.78	21.83	21.84	23.7
5	64QAM	1	12	21.67	21.89	21.93	
5	64QAM	1	24	21.64	21.81	21.78	
5	64QAM	12	0	20.64	20.74	20.68	22.7
5	64QAM	12	7	20.66	20.72	20.67	
5	64QAM	12	13	20.64	20.68	20.64	
5	64QAM	25	0	20.59	20.66	20.61	
5	256QAM	1	0	19.92	20.24	20.05	20.7
5	256QAM	1	12	20.02	20.00	20.13	
5	256QAM	1	24	20.07	20.06	20.07	
5	256QAM	12	0	19.79	19.81	19.84	20.7
5	256QAM	12	7	19.79	19.87	19.78	
5	256QAM	12	13	19.86	19.91	19.83	
5	256QAM	25	0	19.84	19.86	19.79	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	23.72	23.81	23.80	25.7
3	QPSK	1	8	23.46	23.50	23.60	
3	QPSK	1	14	23.53	23.59	23.51	
3	QPSK	8	0	22.55	22.64	22.64	24.7
3	QPSK	8	4	22.57	22.62	22.71	
3	QPSK	8	7	22.57	22.67	22.74	
3	QPSK	15	0	22.58	22.68	22.72	
3	16QAM	1	0	22.94	23.04	23.11	24.7
3	16QAM	1	8	22.75	22.93	22.92	
3	16QAM	1	14	22.85	22.98	22.91	
3	16QAM	8	0	21.60	21.79	21.78	23.7
3	16QAM	8	4	21.63	21.86	21.81	
3	16QAM	8	7	21.70	21.86	21.95	
3	16QAM	15	0	21.74	21.97	21.95	
3	64QAM	1	0	21.87	22.12	22.04	23.7
3	64QAM	1	8	21.80	21.97	22.00	
3	64QAM	1	14	21.83	22.13	21.99	
3	64QAM	8	0	20.76	20.96	20.99	22.7
3	64QAM	8	4	20.74	21.00	21.03	
3	64QAM	8	7	20.80	21.04	21.09	
3	64QAM	15	0	20.91	21.15	21.15	
3	256QAM	1	0	19.94	20.27	20.06	20.7
3	256QAM	1	8	19.97	19.96	20.11	
3	256QAM	1	14	20.06	20.08	20.06	
3	256QAM	8	0	19.78	19.77	19.81	20.7
3	256QAM	8	4	19.85	19.88	19.84	
3	256QAM	8	7	19.85	19.82	19.78	
3	256QAM	15	0	19.82	19.84	19.79	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.76	23.85	23.84	25.7
1.4	QPSK	1	3	23.51	23.63	23.68	
1.4	QPSK	1	5	23.61	23.71	23.71	
1.4	QPSK	3	0	23.54	23.64	23.58	
1.4	QPSK	3	1	23.49	23.68	23.57	
1.4	QPSK	3	3	23.44	23.70	23.61	
1.4	QPSK	6	0	22.53	22.68	22.63	24.7
1.4	16QAM	1	0	22.89	23.06	23.03	24.7
1.4	16QAM	1	3	22.81	22.97	22.99	
1.4	16QAM	1	5	22.92	23.10	23.04	
1.4	16QAM	3	0	22.70	22.93	22.90	
1.4	16QAM	3	1	22.70	22.86	22.86	
1.4	16QAM	3	3	22.68	22.95	22.88	
1.4	16QAM	6	0	21.69	21.98	21.92	23.7
1.4	64QAM	1	0	21.87	22.09	22.04	23.7
1.4	64QAM	1	3	21.93	22.14	22.07	
1.4	64QAM	1	5	22.00	22.27	22.21	
1.4	64QAM	3	0	21.89	22.14	22.06	
1.4	64QAM	3	1	21.90	22.15	22.11	
1.4	64QAM	3	3	21.88	22.13	22.05	
1.4	64QAM	6	0	20.85	21.07	21.04	22.7
1.4	256QAM	1	0	20.23	20.22	20.30	20.7
1.4	256QAM	1	3	20.09	20.19	20.23	
1.4	256QAM	1	5	20.06	20.18	20.21	
1.4	256QAM	3	0	19.96	20.02	20.08	
1.4	256QAM	3	1	19.97	20.12	20.12	
1.4	256QAM	3	3	19.94	20.11	20.06	
1.4	256QAM	6	0	19.86	20.05	20.08	20.7

**<LTE Band 4_Ant 2_Index 3>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.07	23.88	23.93	
20	QPSK	1	49	23.82	23.84	23.86	25.5
20	QPSK	1	99	23.79	23.72	23.71	
20	QPSK	50	0	22.91	22.77	22.77	
20	QPSK	50	24	22.90	22.82	22.75	24.7
20	QPSK	50	50	22.87	22.81	22.70	
20	QPSK	100	0	22.86	22.79	22.71	
20	16QAM	1	0	23.14	23.04	23.17	24.7
20	16QAM	1	49	23.03	23.05	23.09	
20	16QAM	1	99	22.99	22.93	22.94	
20	16QAM	50	0	21.86	21.88	21.87	23.7
20	16QAM	50	24	21.88	21.90	21.91	
20	16QAM	50	50	21.88	21.90	21.85	
20	16QAM	100	0	21.85	21.85	21.86	23.7
20	64QAM	1	0	22.08	22.22	22.26	
20	64QAM	1	49	22.13	22.16	22.18	
20	64QAM	1	99	22.09	22.09	21.94	22.7
20	64QAM	50	0	21.09	21.10	21.08	
20	64QAM	50	24	21.10	21.12	21.14	
20	64QAM	50	50	21.07	21.07	21.05	20.7
20	64QAM	100	0	21.02	21.03	21.02	
20	256QAM	1	0	20.11	20.41	20.19	
20	256QAM	1	49	20.17	20.16	20.30	20.7
20	256QAM	1	99	20.25	20.24	20.22	
20	256QAM	50	0	19.92	19.96	19.97	
20	256QAM	50	24	19.99	19.99	19.98	20.7
20	256QAM	50	50	20.01	20.01	19.95	
20	256QAM	100	0	20.01	20.02	19.98	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.84	23.65	23.61	
15	QPSK	1	37	23.55	23.46	23.48	25.5
15	QPSK	1	74	23.47	23.54	23.29	
15	QPSK	36	0	22.61	22.61	22.62	
15	QPSK	36	20	22.71	22.55	22.61	24.7
15	QPSK	36	39	22.70	22.58	22.45	
15	QPSK	75	0	22.67	22.50	22.57	
15	16QAM	1	0	22.72	22.59	23.01	24.7
15	16QAM	1	37	22.77	22.81	23.35	
15	16QAM	1	74	22.59	22.48	22.72	
15	16QAM	36	0	21.59	21.60	21.78	23.7
15	16QAM	36	20	21.50	21.65	21.66	
15	16QAM	36	39	21.68	21.60	21.65	
15	16QAM	75	0	21.63	21.68	21.52	23.7
15	64QAM	1	0	22.23	21.82	21.81	
15	64QAM	1	37	21.84	21.79	21.98	
15	64QAM	1	74	22.25	21.71	21.78	22.7
15	64QAM	36	0	20.74	20.79	20.81	
15	64QAM	36	20	20.80	20.77	20.88	
15	64QAM	36	39	20.73	20.67	20.74	20.7
15	64QAM	75	0	20.66	20.72	20.73	
15	256QAM	1	0	20.33	20.31	20.43	
15	256QAM	1	37	20.26	20.28	20.32	20.7
15	256QAM	1	74	20.21	20.27	20.30	
15	256QAM	36	0	20.04	20.07	20.11	
15	256QAM	36	20	20.04	20.12	20.08	



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15	256QAM	36	39	20.05	20.11	20.06	Tune-up limit (dBm)
15	256QAM	75	0	20.03	20.08	20.02	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	24.05	23.88	23.90	25.5
10	QPSK	1	25	23.77	23.75	23.67	
10	QPSK	1	49	23.78	23.81	23.56	
10	QPSK	25	0	22.90	22.92	22.76	24.7
10	QPSK	25	12	22.89	22.89	22.82	
10	QPSK	25	25	22.88	22.92	22.82	
10	QPSK	50	0	22.93	22.94	22.88	
10	16QAM	1	0	23.16	23.21	23.24	24.7
10	16QAM	1	25	23.12	23.18	23.07	
10	16QAM	1	49	23.07	23.13	22.89	
10	16QAM	25	0	21.96	21.99	21.97	23.7
10	16QAM	25	12	22.01	22.10	21.97	
10	16QAM	25	25	22.06	22.13	22.01	
10	16QAM	50	0	22.05	22.09	22.06	
10	64QAM	1	0	22.22	22.32	22.39	23.7
10	64QAM	1	25	22.27	22.37	22.37	
10	64QAM	1	49	22.30	22.31	22.33	
10	64QAM	25	0	21.14	21.16	21.14	22.7
10	64QAM	25	12	21.10	21.13	21.14	
10	64QAM	25	25	21.09	21.17	21.13	
10	64QAM	50	0	21.13	21.23	21.22	
10	256QAM	1	0	20.00	20.27	19.99	20.7
10	256QAM	1	25	20.01	19.98	20.15	
10	256QAM	1	49	20.07	20.12	20.07	
10	256QAM	25	0	19.77	19.86	19.81	20.7
10	256QAM	25	12	19.89	19.87	19.78	
10	256QAM	25	25	19.83	19.87	19.78	
10	256QAM	50	0	19.86	19.86	19.82	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.54	23.61	23.56	25.5
5	QPSK	1	12	23.60	23.69	23.58	
5	QPSK	1	24	23.55	23.63	23.51	
5	QPSK	12	0	22.61	22.68	22.63	24.7
5	QPSK	12	7	22.63	22.70	22.62	
5	QPSK	12	13	22.63	22.69	22.61	
5	QPSK	25	0	22.61	22.65	22.56	
5	16QAM	1	0	22.92	23.01	22.98	24.7
5	16QAM	1	12	22.94	22.93	22.99	
5	16QAM	1	24	22.85	22.98	22.97	
5	16QAM	12	0	21.65	21.73	21.73	23.7
5	16QAM	12	7	21.65	21.72	21.71	
5	16QAM	12	13	21.65	21.71	21.67	
5	16QAM	25	0	21.63	21.69	21.63	
5	64QAM	1	0	21.78	21.83	21.84	23.7
5	64QAM	1	12	21.67	21.89	21.93	
5	64QAM	1	24	21.64	21.81	21.78	
5	64QAM	12	0	20.64	20.74	20.68	22.7
5	64QAM	12	7	20.66	20.72	20.67	
5	64QAM	12	13	20.64	20.68	20.64	
5	64QAM	25	0	20.59	20.66	20.61	
5	256QAM	1	0	19.92	20.24	20.05	20.7
5	256QAM	1	12	20.02	20.00	20.13	
5	256QAM	1	24	20.07	20.06	20.07	
5	256QAM	12	0	19.79	19.81	19.84	20.7
5	256QAM	12	7	19.79	19.87	19.78	
5	256QAM	12	13	19.86	19.91	19.83	
5	256QAM	25	0	19.84	19.86	19.79	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	23.72	23.81	23.80	25.5
3	QPSK	1	8	23.46	23.50	23.60	
3	QPSK	1	14	23.53	23.59	23.51	
3	QPSK	8	0	22.55	22.64	22.64	24.7
3	QPSK	8	4	22.57	22.62	22.71	
3	QPSK	8	7	22.57	22.67	22.74	
3	QPSK	15	0	22.58	22.68	22.72	24.7
3	16QAM	1	0	22.94	23.04	23.11	
3	16QAM	1	8	22.75	22.93	22.92	
3	16QAM	1	14	22.85	22.98	22.91	23.7
3	16QAM	8	0	21.60	21.79	21.78	
3	16QAM	8	4	21.63	21.86	21.81	
3	16QAM	8	7	21.70	21.86	21.95	23.7
3	16QAM	15	0	21.74	21.97	21.95	
3	64QAM	1	0	21.87	22.12	22.04	
3	64QAM	1	8	21.80	21.97	22.00	22.7
3	64QAM	1	14	21.83	22.13	21.99	
3	64QAM	8	0	20.76	20.96	20.99	
3	64QAM	8	4	20.74	21.00	21.03	20.7
3	64QAM	8	7	20.80	21.04	21.09	
3	64QAM	15	0	20.91	21.15	21.15	
3	256QAM	1	0	19.94	20.27	20.06	20.7
3	256QAM	1	8	19.97	19.96	20.11	
3	256QAM	1	14	20.06	20.08	20.06	
3	256QAM	8	0	19.78	19.77	19.81	20.7
3	256QAM	8	4	19.85	19.88	19.84	
3	256QAM	8	7	19.85	19.82	19.78	
3	256QAM	15	0	19.82	19.84	19.79	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.76	23.85	23.84	25.5
1.4	QPSK	1	3	23.51	23.63	23.68	
1.4	QPSK	1	5	23.61	23.71	23.71	
1.4	QPSK	3	0	23.54	23.64	23.58	24.7
1.4	QPSK	3	1	23.49	23.68	23.57	
1.4	QPSK	3	3	23.44	23.70	23.61	
1.4	QPSK	6	0	22.53	22.68	22.63	24.7
1.4	16QAM	1	0	22.89	23.06	23.03	
1.4	16QAM	1	3	22.81	22.97	22.99	
1.4	16QAM	1	5	22.92	23.10	23.04	23.7
1.4	16QAM	3	0	22.70	22.93	22.90	
1.4	16QAM	3	1	22.70	22.86	22.86	
1.4	16QAM	3	3	22.68	22.95	22.88	23.7
1.4	16QAM	6	0	21.69	21.98	21.92	
1.4	64QAM	1	0	21.87	22.09	22.04	
1.4	64QAM	1	3	21.93	22.14	22.07	22.7
1.4	64QAM	1	5	22.00	22.27	22.21	
1.4	64QAM	3	0	21.89	22.14	22.06	
1.4	64QAM	3	1	21.90	22.15	22.11	20.7
1.4	64QAM	3	3	21.88	22.13	22.05	
1.4	64QAM	6	0	20.85	21.07	21.04	
1.4	256QAM	1	0	20.23	20.22	20.30	20.7
1.4	256QAM	1	3	20.09	20.19	20.23	
1.4	256QAM	1	5	20.06	20.18	20.21	
1.4	256QAM	3	0	19.96	20.02	20.08	20.7
1.4	256QAM	3	1	19.97	20.12	20.12	
1.4	256QAM	3	3	19.94	20.11	20.06	
1.4	256QAM	6	0	19.86	20.05	20.08	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	21.91	21.97	22.01	
20	QPSK	1	49	21.81	21.80	21.91	23
20	QPSK	1	99	21.80	21.83	21.80	
20	QPSK	50	0	21.80	21.84	22.07	
20	QPSK	50	24	21.71	21.80	21.96	23
20	QPSK	50	50	21.81	21.77	21.78	
20	QPSK	100	0	21.74	21.78	21.76	
20	16QAM	1	0	21.88	21.96	22.16	23
20	16QAM	1	49	21.76	21.71	21.90	
20	16QAM	1	99	21.66	21.81	21.90	
20	16QAM	50	0	21.77	21.85	21.82	23
20	16QAM	50	24	21.69	21.85	21.96	
20	16QAM	50	50	21.67	21.88	21.89	
20	16QAM	100	0	21.65	21.89	21.87	23
20	64QAM	1	0	21.70	21.74	21.89	
20	64QAM	1	49	21.62	21.74	21.81	
20	64QAM	1	99	21.53	21.62	21.70	22.7
20	64QAM	50	0	21.31	21.38	21.41	
20	64QAM	50	24	21.39	21.38	21.49	
20	64QAM	50	50	21.36	21.36	21.43	20.7
20	64QAM	100	0	21.30	21.37	21.51	
20	256QAM	1	0	20.03	20.33	20.02	
20	256QAM	1	49	20.12	20.01	20.24	20.7
20	256QAM	1	99	20.17	20.15	20.18	
20	256QAM	50	0	19.80	19.90	19.78	20.7
20	256QAM	50	24	19.96	19.88	19.92	
20	256QAM	50	50	19.91	20.01	19.83	
20	256QAM	100	0	19.87	19.96	19.92	Tune-up limit (dBm)
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	21.93	21.94	21.94	23
15	QPSK	1	37	21.74	21.77	21.84	
15	QPSK	1	74	21.85	21.81	21.70	
15	QPSK	36	0	21.78	21.83	22.02	23
15	QPSK	36	20	21.71	21.80	21.95	
15	QPSK	36	39	21.79	21.73	21.69	
15	QPSK	75	0	21.75	21.85	21.65	23
15	16QAM	1	0	21.89	21.91	22.05	
15	16QAM	1	37	21.65	21.77	21.85	
15	16QAM	1	74	21.60	21.86	21.79	23
15	16QAM	36	0	21.62	21.73	21.76	
15	16QAM	36	20	21.64	21.88	21.97	
15	16QAM	36	39	21.72	21.95	21.89	23
15	16QAM	75	0	21.58	21.83	21.90	
15	64QAM	1	0	21.76	21.72	21.95	
15	64QAM	1	37	21.55	21.69	21.79	22.7
15	64QAM	1	74	21.54	21.61	21.67	
15	64QAM	36	0	21.36	21.33	21.34	
15	64QAM	36	20	21.35	21.35	21.42	20.7
15	64QAM	36	39	21.19	21.26	21.46	
15	64QAM	75	0	21.27	21.37	21.46	
15	256QAM	1	0	19.95	20.39	19.97	20.7
15	256QAM	1	37	19.94	20.09	20.24	
15	256QAM	1	74	20.15	20.12	20.18	
15	256QAM	36	0	19.77	19.79	19.74	20.7
15	256QAM	36	20	19.78	19.90	19.84	



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15	256QAM	36	39	19.85	19.89	19.82	Tune-up limit (dBm)
15	256QAM	75	0	19.86	19.93	19.86	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	21.82	21.95	21.94	23
10	QPSK	1	25	21.80	21.72	21.74	
10	QPSK	1	49	21.79	21.81	21.69	
10	QPSK	25	0	21.75	21.75	21.99	23
10	QPSK	25	12	21.62	21.76	21.85	
10	QPSK	25	25	21.73	21.68	21.74	
10	QPSK	50	0	21.77	21.68	21.77	
10	16QAM	1	0	21.84	21.97	22.11	23
10	16QAM	1	25	21.68	21.69	21.78	
10	16QAM	1	49	21.69	21.81	21.73	
10	16QAM	25	0	21.67	21.68	21.69	23
10	16QAM	25	12	21.68	21.76	21.87	
10	16QAM	25	25	21.68	21.80	21.80	
10	16QAM	50	0	21.59	21.80	21.81	
10	64QAM	1	0	21.77	21.69	21.87	23
10	64QAM	1	25	21.57	21.65	21.75	
10	64QAM	1	49	21.52	21.59	21.66	
10	64QAM	25	0	21.26	21.29	21.40	22.7
10	64QAM	25	12	21.31	21.31	21.45	
10	64QAM	25	25	21.29	21.30	21.45	
10	64QAM	50	0	21.16	21.24	21.43	
10	256QAM	1	0	19.98	20.33	20.03	20.7
10	256QAM	1	25	20.02	20.00	20.17	
10	256QAM	1	49	20.11	20.06	20.07	
10	256QAM	25	0	19.77	19.80	19.81	20.7
10	256QAM	25	12	19.87	19.82	19.83	
10	256QAM	25	25	19.86	19.88	19.85	
10	256QAM	50	0	19.81	19.91	19.85	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	21.83	22.00	21.99	23
5	QPSK	1	12	21.87	21.80	21.84	
5	QPSK	1	24	21.89	21.81	21.70	
5	QPSK	12	0	21.74	21.75	21.98	23
5	QPSK	12	7	21.68	21.71	21.93	
5	QPSK	12	13	21.78	21.76	21.77	
5	QPSK	25	0	21.64	21.77	21.68	
5	16QAM	1	0	21.82	21.95	22.00	23
5	16QAM	1	12	21.70	21.66	21.84	
5	16QAM	1	24	21.70	21.75	21.78	
5	16QAM	12	0	21.69	21.74	21.77	23
5	16QAM	12	7	21.75	21.78	21.84	
5	16QAM	12	13	21.65	21.87	21.76	
5	16QAM	25	0	21.56	21.76	21.87	
5	64QAM	1	0	21.72	21.70	21.88	23
5	64QAM	1	12	21.54	21.71	21.74	
5	64QAM	1	24	21.45	21.57	21.71	
5	64QAM	12	0	21.27	21.30	21.34	22.7
5	64QAM	12	7	21.36	21.33	21.31	
5	64QAM	12	13	21.29	21.31	21.45	
5	64QAM	25	0	21.14	21.29	21.48	
5	256QAM	1	0	19.95	20.25	20.09	20.7
5	256QAM	1	12	19.97	20.05	20.18	
5	256QAM	1	24	20.10	20.10	20.04	
5	256QAM	12	0	19.77	19.87	19.75	20.7
5	256QAM	12	7	19.88	19.90	19.82	
5	256QAM	12	13	19.91	19.90	19.83	
5	256QAM	25	0	19.78	19.85	19.78	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	21.88	21.84	22.00	23
3	QPSK	1	8	21.83	21.73	21.75	
3	QPSK	1	14	21.79	21.78	21.76	
3	QPSK	8	0	21.71	21.80	21.99	23
3	QPSK	8	4	21.73	21.77	21.91	
3	QPSK	8	7	21.68	21.74	21.74	
3	QPSK	15	0	21.79	21.82	21.77	23
3	16QAM	1	0	21.90	21.94	22.08	
3	16QAM	1	8	21.65	21.78	21.88	
3	16QAM	1	14	21.63	21.78	21.77	23
3	16QAM	8	0	21.70	21.74	21.77	
3	16QAM	8	4	21.71	21.80	21.89	
3	16QAM	8	7	21.67	21.80	21.87	23
3	16QAM	15	0	21.68	21.80	21.75	
3	64QAM	1	0	21.69	21.64	21.85	
3	64QAM	1	8	21.53	21.68	21.71	23
3	64QAM	1	14	21.54	21.51	21.60	
3	64QAM	8	0	21.31	21.26	21.37	
3	64QAM	8	4	21.32	21.36	21.42	22.7
3	64QAM	8	7	21.34	21.23	21.40	
3	64QAM	15	0	21.22	21.35	21.46	
3	256QAM	1	0	19.87	20.30	19.94	20.7
3	256QAM	1	8	20.03	20.04	20.13	
3	256QAM	1	14	20.08	20.04	20.16	
3	256QAM	8	0	19.72	19.81	19.76	20.7
3	256QAM	8	4	19.91	19.84	19.84	
3	256QAM	8	7	19.87	19.99	19.82	
3	256QAM	15	0	19.81	19.87	19.86	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	Tune-up limit (dBm)
1.4	QPSK	1	0	21.81	21.86	21.97	23
1.4	QPSK	1	3	21.73	21.65	21.85	
1.4	QPSK	1	5	21.74	21.77	21.78	
1.4	QPSK	3	0	21.74	21.81	22.05	
1.4	QPSK	3	1	21.66	21.85	21.86	
1.4	QPSK	3	3	21.75	21.80	21.69	
1.4	QPSK	6	0	21.68	21.79	21.69	23
1.4	16QAM	1	0	21.88	22.05	22.07	23
1.4	16QAM	1	3	21.64	21.74	21.87	
1.4	16QAM	1	5	21.65	21.75	21.75	
1.4	16QAM	3	0	21.58	21.63	21.65	
1.4	16QAM	3	1	21.50	21.65	21.75	
1.4	16QAM	3	3	21.54	21.79	21.68	23
1.4	16QAM	6	0	21.35	21.50	21.50	
1.4	64QAM	1	0	21.75	21.78	21.77	23
1.4	64QAM	1	3	21.52	21.66	21.78	
1.4	64QAM	1	5	21.56	21.55	21.61	
1.4	64QAM	3	0	21.60	21.55	21.63	
1.4	64QAM	3	1	21.55	21.69	21.75	
1.4	64QAM	3	3	21.53	21.55	21.75	22.7
1.4	64QAM	6	0	21.22	21.36	21.46	
1.4	256QAM	1	0	20.01	20.33	19.96	20.7
1.4	256QAM	1	3	20.03	20.10	20.16	
1.4	256QAM	1	5	20.20	20.10	20.03	
1.4	256QAM	3	0	19.81	19.89	19.72	
1.4	256QAM	3	1	19.81	19.92	19.83	
1.4	256QAM	3	3	19.92	19.85	19.81	20.7
1.4	256QAM	6	0	19.78	19.97	19.79	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.96	23.00	23.08	
20	QPSK	1	49	22.88	22.84	22.92	24.1
20	QPSK	1	99	22.89	22.92	22.80	
20	QPSK	50	0	22.88	22.90	23.09	
20	QPSK	50	24	22.79	22.89	22.98	24.1
20	QPSK	50	50	22.81	22.83	22.81	
20	QPSK	100	0	22.84	22.85	22.85	
20	16QAM	1	0	22.95	23.05	23.18	24.1
20	16QAM	1	49	22.78	22.80	22.91	
20	16QAM	1	99	22.74	22.88	22.90	
20	16QAM	50	0	22.18	22.25	22.27	23.7
20	16QAM	50	24	22.19	22.28	22.40	
20	16QAM	50	50	22.16	22.35	22.31	
20	16QAM	100	0	22.15	22.30	22.31	23.7
20	64QAM	1	0	22.48	22.52	22.65	
20	64QAM	1	49	22.35	22.48	22.55	
20	64QAM	1	99	22.29	22.37	22.44	22.7
20	64QAM	50	0	21.39	21.41	21.48	
20	64QAM	50	24	21.41	21.41	21.50	
20	64QAM	50	50	21.36	21.38	21.50	20.7
20	64QAM	100	0	21.32	21.44	21.51	
20	256QAM	1	0	20.03	20.40	20.11	
20	256QAM	1	49	20.12	20.10	20.26	20.7
20	256QAM	1	99	20.22	20.21	20.18	
20	256QAM	50	0	19.86	19.92	19.87	
20	256QAM	50	24	19.96	19.97	19.95	20.7
20	256QAM	50	50	20.00	20.01	19.91	
20	256QAM	100	0	19.92	19.99	19.92	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.95	22.98	22.98	
15	QPSK	1	37	22.82	22.84	22.92	24.1
15	QPSK	1	74	22.85	22.87	22.70	
15	QPSK	36	0	22.86	22.89	23.02	
15	QPSK	36	20	22.75	22.88	22.98	24.1
15	QPSK	36	39	22.79	22.80	22.77	
15	QPSK	75	0	22.78	22.85	22.75	
15	16QAM	1	0	22.95	23.01	23.08	24.1
15	16QAM	1	37	22.70	22.78	22.87	
15	16QAM	1	74	22.66	22.88	22.84	
15	16QAM	36	0	22.11	22.16	22.18	23.7
15	16QAM	36	20	22.13	22.28	22.38	
15	16QAM	36	39	22.16	22.35	22.29	
15	16QAM	75	0	22.06	22.23	22.31	23.7
15	64QAM	1	0	22.48	22.43	22.65	
15	64QAM	1	37	22.32	22.47	22.53	
15	64QAM	1	74	22.27	22.31	22.40	22.7
15	64QAM	36	0	21.38	21.36	21.40	
15	64QAM	36	20	21.41	21.41	21.45	
15	64QAM	36	39	21.27	21.36	21.46	20.7
15	64QAM	75	0	21.30	21.42	21.46	
15	256QAM	1	0	19.97	20.39	20.05	
15	256QAM	1	37	20.03	20.10	20.24	20.7
15	256QAM	1	74	20.16	20.14	20.18	
15	256QAM	36	0	19.86	19.86	19.80	
15	256QAM	36	20	19.87	19.97	19.90	



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15	256QAM	36	39	19.90	19.99	19.86	Tune-up limit (dBm)
15	256QAM	75	0	19.92	19.99	19.90	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.92	22.95	22.99	24.1
10	QPSK	1	25	22.82	22.78	22.84	
10	QPSK	1	49	22.84	22.83	22.74	
10	QPSK	25	0	22.85	22.82	23.03	24.1
10	QPSK	25	12	22.71	22.84	22.95	
10	QPSK	25	25	22.76	22.76	22.77	
10	QPSK	50	0	22.84	22.78	22.81	
10	16QAM	1	0	22.86	22.99	23.13	24.1
10	16QAM	1	25	22.76	22.76	22.83	
10	16QAM	1	49	22.72	22.88	22.82	
10	16QAM	25	0	22.17	22.15	22.17	23.7
10	16QAM	25	12	22.10	22.20	22.37	
10	16QAM	25	25	22.14	22.28	22.25	
10	16QAM	50	0	22.05	22.23	22.28	
10	64QAM	1	0	22.48	22.48	22.59	23.7
10	64QAM	1	25	22.35	22.45	22.53	
10	64QAM	1	49	22.23	22.33	22.40	
10	64QAM	25	0	21.30	21.32	21.40	22.7
10	64QAM	25	12	21.32	21.41	21.49	
10	64QAM	25	25	21.36	21.33	21.48	
10	64QAM	50	0	21.26	21.34	21.47	
10	256QAM	1	0	20.02	20.39	20.05	20.7
10	256QAM	1	25	20.12	20.04	20.24	
10	256QAM	1	49	20.13	20.15	20.15	
10	256QAM	25	0	19.84	19.83	19.82	20.7
10	256QAM	25	12	19.89	19.91	19.93	
10	256QAM	25	25	19.96	19.97	19.86	
10	256QAM	50	0	19.88	19.97	19.89	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.89	23.00	23.05	24.1
5	QPSK	1	12	22.87	22.81	22.85	
5	QPSK	1	24	22.89	22.83	22.73	
5	QPSK	12	0	22.82	22.82	23.03	24.1
5	QPSK	12	7	22.71	22.80	22.93	
5	QPSK	12	13	22.79	22.82	22.80	
5	QPSK	25	0	22.74	22.83	22.75	
5	16QAM	1	0	22.85	23.04	23.09	24.1
5	16QAM	1	12	22.78	22.74	22.85	
5	16QAM	1	24	22.70	22.79	22.88	
5	16QAM	12	0	22.12	22.17	22.27	23.7
5	16QAM	12	7	22.15	22.20	22.30	
5	16QAM	12	13	22.10	22.27	22.21	
5	16QAM	25	0	22.06	22.20	22.31	
5	64QAM	1	0	22.48	22.47	22.60	23.7
5	64QAM	1	12	22.29	22.45	22.47	
5	64QAM	1	24	22.19	22.37	22.41	
5	64QAM	12	0	21.34	21.32	21.43	22.7
5	64QAM	12	7	21.36	21.37	21.40	
5	64QAM	12	13	21.31	21.36	21.48	
5	64QAM	25	0	21.22	21.37	21.48	
5	256QAM	1	0	19.98	20.32	20.10	20.7
5	256QAM	1	12	20.06	20.08	20.22	
5	256QAM	1	24	20.12	20.19	20.11	
5	256QAM	12	0	19.86	19.87	19.82	20.7
5	256QAM	12	7	19.89	19.92	19.85	
5	256QAM	12	13	19.92	19.98	19.91	
5	256QAM	25	0	19.88	19.93	19.84	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.94	22.90	23.03	24.1
3	QPSK	1	8	22.85	22.76	22.84	
3	QPSK	1	14	22.88	22.83	22.77	
3	QPSK	8	0	22.79	22.88	23.07	24.1
3	QPSK	8	4	22.75	22.87	22.92	
3	QPSK	8	7	22.74	22.76	22.77	
3	QPSK	15	0	22.81	22.85	22.79	24.1
3	16QAM	1	0	22.92	23.03	23.15	
3	16QAM	1	8	22.69	22.79	22.88	
3	16QAM	1	14	22.66	22.84	22.87	23.7
3	16QAM	8	0	22.11	22.19	22.27	
3	16QAM	8	4	22.12	22.28	22.38	
3	16QAM	8	7	22.16	22.29	22.27	23.7
3	16QAM	15	0	22.08	22.27	22.23	
3	64QAM	1	0	22.43	22.42	22.56	
3	64QAM	1	8	22.32	22.42	22.49	22.7
3	64QAM	1	14	22.27	22.29	22.36	
3	64QAM	8	0	21.35	21.31	21.38	
3	64QAM	8	4	21.41	21.37	21.50	20.7
3	64QAM	8	7	21.34	21.31	21.44	
3	64QAM	15	0	21.31	21.42	21.47	
3	256QAM	1	0	19.97	20.32	20.01	20.7
3	256QAM	1	8	20.07	20.09	20.19	
3	256QAM	1	14	20.14	20.12	20.17	
3	256QAM	8	0	19.78	19.84	19.80	20.7
3	256QAM	8	4	19.92	19.92	19.87	
3	256QAM	8	7	19.94	19.99	19.86	
3	256QAM	15	0	19.84	19.91	19.86	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.90	22.95	23.05	24.1
1.4	QPSK	1	3	22.80	22.75	22.89	
1.4	QPSK	1	5	22.84	22.85	22.79	
1.4	QPSK	3	0	22.80	22.87	23.06	24.1
1.4	QPSK	3	1	22.75	22.89	22.88	
1.4	QPSK	3	3	22.77	22.82	22.79	
1.4	QPSK	6	0	22.74	22.85	22.79	24.1
1.4	16QAM	1	0	22.90	23.05	23.13	24.1
1.4	16QAM	1	3	22.70	22.77	22.90	
1.4	16QAM	1	5	22.65	22.80	22.84	
1.4	16QAM	3	0	22.64	22.67	22.75	23.7
1.4	16QAM	3	1	22.59	22.70	22.80	
1.4	16QAM	3	3	22.59	22.79	22.77	
1.4	16QAM	6	0	22.08	22.20	22.22	23.7
1.4	64QAM	1	0	22.45	22.51	22.55	
1.4	64QAM	1	3	22.25	22.44	22.48	
1.4	64QAM	1	5	22.26	22.28	22.37	22.7
1.4	64QAM	3	0	22.31	22.31	22.40	
1.4	64QAM	3	1	22.33	22.40	22.46	
1.4	64QAM	3	3	22.29	22.33	22.50	20.7
1.4	64QAM	6	0	21.31	21.37	21.48	
1.4	256QAM	1	0	20.03	20.35	20.06	
1.4	256QAM	1	3	20.07	20.10	20.18	20.7
1.4	256QAM	1	5	20.21	20.12	20.11	
1.4	256QAM	3	0	19.81	19.89	19.77	
1.4	256QAM	3	1	19.87	19.92	19.88	20.7
1.4	256QAM	3	3	20.00	19.94	19.82	
1.4	256QAM	6	0	19.87	19.97	19.83	20.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	25.2
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.58	23.60	23.55	
20	QPSK	1	49	23.43	23.40	23.33	24.2
20	QPSK	1	99	23.38	23.21	23.22	
20	QPSK	50	0	22.54	22.55	22.45	
20	QPSK	50	24	22.51	22.44	22.37	24.2
20	QPSK	50	50	22.49	22.36	22.33	
20	QPSK	100	0	22.50	22.51	22.38	
20	16QAM	1	0	22.71	22.85	22.90	24.2
20	16QAM	1	49	22.63	22.72	22.59	
20	16QAM	1	99	22.68	22.58	22.47	
20	16QAM	50	0	21.53	21.61	21.48	23.2
20	16QAM	50	24	21.61	21.67	21.48	
20	16QAM	50	50	21.72	21.58	21.50	
20	16QAM	100	0	21.66	21.63	21.56	23.2
20	64QAM	1	0	21.93	21.94	21.95	
20	64QAM	1	49	21.90	21.88	21.75	
20	64QAM	1	99	21.88	21.69	21.59	22.2
20	64QAM	50	0	20.73	20.91	20.71	
20	64QAM	50	24	20.80	20.85	20.76	
20	64QAM	50	50	20.90	20.77	20.72	20.2
20	64QAM	100	0	20.87	20.79	20.77	
20	256QAM	1	0	18.87	19.00	19.00	
20	256QAM	1	49	18.86	18.86	18.74	20.2
20	256QAM	1	99	19.08	18.90	18.87	
20	256QAM	50	0	18.74	18.87	18.85	
20	256QAM	50	24	18.78	18.72	18.72	20.2
20	256QAM	50	50	18.79	18.67	18.68	
20	256QAM	100	0	18.77	18.78	18.72	
Channel				132047	132322	132597	25.2
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.39	23.39	23.34	
15	QPSK	1	37	23.37	23.34	23.24	24.2
15	QPSK	1	74	23.42	23.25	23.23	
15	QPSK	36	0	22.46	22.41	22.33	
15	QPSK	36	20	22.45	22.35	22.28	24.2
15	QPSK	36	39	22.43	22.30	22.26	
15	QPSK	75	0	22.45	22.32	22.26	
15	16QAM	1	0	22.72	22.81	22.63	24.2
15	16QAM	1	37	22.66	22.63	22.51	
15	16QAM	1	74	22.68	22.45	22.42	
15	16QAM	36	0	21.47	21.45	21.40	23.2
15	16QAM	36	20	21.42	21.47	21.33	
15	16QAM	36	39	21.44	21.52	21.35	
15	16QAM	75	0	21.45	21.55	21.46	23.2
15	64QAM	1	0	21.64	21.85	21.80	
15	64QAM	1	37	21.66	21.72	21.69	
15	64QAM	1	74	21.63	21.67	21.57	22.2
15	64QAM	36	0	20.62	20.65	20.61	
15	64QAM	36	20	20.64	20.70	20.54	
15	64QAM	36	39	20.65	20.74	20.49	20.2
15	64QAM	75	0	20.61	20.73	20.55	
15	256QAM	1	0	18.81	18.91	18.95	
15	256QAM	1	37	18.77	18.82	18.66	20.2
15	256QAM	1	74	19.08	18.80	18.80	
15	256QAM	36	0	18.70	18.82	18.80	
15	256QAM	36	20	18.73	18.65	18.72	20.2



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15	256QAM	36	39	18.71	18.62	18.65	Tune-up limit (dBm)
15	256QAM	75	0	18.70	18.74	18.71	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.54	23.57	23.55	25.2
10	QPSK	1	25	23.37	23.33	23.24	
10	QPSK	1	49	23.35	23.33	23.26	
10	QPSK	25	0	22.41	22.48	22.35	24.2
10	QPSK	25	12	22.42	22.46	22.37	
10	QPSK	25	25	22.50	22.42	22.36	
10	QPSK	50	0	22.48	22.46	22.40	
10	16QAM	1	0	22.62	22.82	22.73	24.2
10	16QAM	1	25	22.51	22.68	22.60	
10	16QAM	1	49	22.57	22.63	22.57	
10	16QAM	25	0	21.55	21.55	21.44	23.2
10	16QAM	25	12	21.61	21.69	21.45	
10	16QAM	25	25	21.61	21.66	21.58	
10	16QAM	50	0	21.63	21.68	21.59	
10	64QAM	1	0	21.84	21.94	21.80	23.2
10	64QAM	1	25	21.76	21.80	21.72	
10	64QAM	1	49	21.92	21.83	21.83	
10	64QAM	25	0	20.76	20.81	20.60	22.2
10	64QAM	25	12	20.77	20.87	20.64	
10	64QAM	25	25	20.76	20.82	20.72	
10	64QAM	50	0	20.78	20.88	20.80	
10	256QAM	1	0	18.87	18.99	18.98	20.2
10	256QAM	1	25	18.76	18.82	18.73	
10	256QAM	1	49	19.05	18.81	18.81	
10	256QAM	25	0	18.69	18.78	18.78	20.2
10	256QAM	25	12	18.70	18.71	18.62	
10	256QAM	25	25	18.75	18.66	18.63	
10	256QAM	50	0	18.68	18.71	18.65	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.45	23.40	23.37	25.2
5	QPSK	1	12	23.40	23.32	23.29	
5	QPSK	1	24	23.37	23.24	23.20	
5	QPSK	12	0	22.41	22.33	22.24	24.2
5	QPSK	12	7	22.39	22.32	22.23	
5	QPSK	12	13	22.39	22.31	22.23	
5	QPSK	25	0	22.44	22.31	22.21	
5	16QAM	1	0	22.69	22.67	22.55	24.2
5	16QAM	1	12	22.58	22.56	22.50	
5	16QAM	1	24	22.60	22.55	22.49	
5	16QAM	12	0	21.45	21.52	21.40	23.2
5	16QAM	12	7	21.44	21.57	21.49	
5	16QAM	12	13	21.41	21.54	21.48	
5	16QAM	25	0	21.44	21.56	21.46	
5	64QAM	1	0	21.62	21.86	21.71	23.2
5	64QAM	1	12	21.65	21.81	21.71	
5	64QAM	1	24	21.67	21.81	21.69	
5	64QAM	12	0	20.60	20.74	20.65	22.2
5	64QAM	12	7	20.58	20.72	20.64	
5	64QAM	12	13	20.57	20.68	20.62	
5	64QAM	25	0	20.59	20.69	20.58	
5	256QAM	1	0	18.77	18.94	18.92	20.2
5	256QAM	1	12	18.86	18.81	18.65	
5	256QAM	1	24	19.02	18.90	18.87	
5	256QAM	12	0	18.69	18.82	18.76	20.2
5	256QAM	12	7	18.73	18.71	18.70	
5	256QAM	12	13	18.79	18.61	18.60	
5	256QAM	25	0	18.75	18.72	18.67	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	23.57	23.51	23.58	25.2
3	QPSK	1	8	23.27	23.33	23.47	
3	QPSK	1	14	23.34	23.26	23.53	
3	QPSK	8	0	22.35	22.38	22.56	24.2
3	QPSK	8	4	22.35	22.44	22.58	
3	QPSK	8	7	22.36	22.46	22.58	
3	QPSK	15	0	22.38	22.49	22.62	24.2
3	16QAM	1	0	22.71	22.86	22.92	
3	16QAM	1	8	22.56	22.76	22.76	
3	16QAM	1	14	22.68	22.82	22.87	23.2
3	16QAM	8	0	21.38	21.52	21.67	
3	16QAM	8	4	21.40	21.63	21.72	
3	16QAM	8	7	21.52	21.68	21.70	23.2
3	16QAM	15	0	21.57	21.72	21.69	
3	64QAM	1	0	21.73	21.90	21.84	
3	64QAM	1	8	21.67	21.78	21.80	22.2
3	64QAM	1	14	21.74	21.83	21.86	
3	64QAM	8	0	20.59	20.76	20.76	
3	64QAM	8	4	20.60	20.88	20.78	20.2
3	64QAM	8	7	20.62	20.88	20.76	
3	64QAM	15	0	20.74	20.91	20.79	
3	256QAM	1	0	18.84	18.93	18.98	20.2
3	256QAM	1	8	18.79	18.79	18.64	
3	256QAM	1	14	19.06	18.88	18.78	
3	256QAM	8	0	18.72	18.82	18.79	20.2
3	256QAM	8	4	18.78	18.65	18.70	
3	256QAM	8	7	18.74	18.59	18.58	
3	256QAM	15	0	18.74	18.73	18.69	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.46	23.40	23.55	25.2
1.4	QPSK	1	3	23.22	23.21	23.44	
1.4	QPSK	1	5	23.31	23.26	23.56	
1.4	QPSK	3	0	23.27	23.22	23.46	24.2
1.4	QPSK	3	1	23.38	23.21	23.52	
1.4	QPSK	3	3	23.32	23.22	23.50	
1.4	QPSK	6	0	22.31	22.25	22.51	24.2
1.4	16QAM	1	0	22.60	22.69	22.78	
1.4	16QAM	1	3	22.46	22.62	22.62	
1.4	16QAM	1	5	22.60	22.72	22.80	23.2
1.4	16QAM	3	0	22.37	22.47	22.55	
1.4	16QAM	3	1	22.41	22.52	22.57	
1.4	16QAM	3	3	22.33	22.51	22.58	22.2
1.4	16QAM	6	0	21.36	21.50	21.67	
1.4	64QAM	1	0	21.58	21.76	21.85	
1.4	64QAM	1	3	21.48	21.75	21.78	20.2
1.4	64QAM	1	5	21.60	21.84	21.82	
1.4	64QAM	3	0	21.52	21.68	21.75	
1.4	64QAM	3	1	21.54	21.61	21.73	20.2
1.4	64QAM	3	3	21.52	21.68	21.68	
1.4	64QAM	6	0	20.51	20.70	20.72	
1.4	256QAM	1	0	18.97	18.82	18.79	20.2
1.4	256QAM	1	3	18.80	18.75	18.66	
1.4	256QAM	1	5	18.87	18.78	18.77	
1.4	256QAM	3	0	18.77	18.71	18.74	20.2
1.4	256QAM	3	1	18.77	18.74	18.74	
1.4	256QAM	3	3	18.78	18.74	18.71	
1.4	256QAM	6	0	18.69	18.67	18.64	20.2

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.58	23.60	23.55	
20	QPSK	1	49	23.43	23.40	23.33	23.6
20	QPSK	1	99	23.38	23.21	23.22	
20	QPSK	50	0	22.54	22.55	22.45	
20	QPSK	50	24	22.51	22.44	22.37	23.6
20	QPSK	50	50	22.49	22.36	22.33	
20	QPSK	100	0	22.50	22.51	22.38	
20	16QAM	1	0	22.71	22.85	22.90	23.6
20	16QAM	1	49	22.63	22.72	22.59	
20	16QAM	1	99	22.68	22.58	22.47	
20	16QAM	50	0	21.53	21.61	21.48	23.2
20	16QAM	50	24	21.61	21.67	21.48	
20	16QAM	50	50	21.72	21.58	21.50	
20	16QAM	100	0	21.66	21.63	21.56	23.2
20	64QAM	1	0	21.93	21.94	21.95	
20	64QAM	1	49	21.90	21.88	21.75	
20	64QAM	1	99	21.88	21.69	21.59	22.2
20	64QAM	50	0	20.73	20.91	20.71	
20	64QAM	50	24	20.80	20.85	20.76	
20	64QAM	50	50	20.90	20.77	20.72	20.2
20	64QAM	100	0	20.87	20.79	20.77	
20	256QAM	1	0	18.87	19.00	19.00	
20	256QAM	1	49	18.86	18.86	18.74	20.2
20	256QAM	1	99	19.08	18.90	18.87	
20	256QAM	50	0	18.74	18.87	18.85	
20	256QAM	50	24	18.78	18.72	18.72	20.2
20	256QAM	50	50	18.79	18.67	18.68	
20	256QAM	100	0	18.77	18.78	18.72	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.39	23.39	23.34	
15	QPSK	1	37	23.37	23.34	23.24	23.6
15	QPSK	1	74	23.42	23.25	23.23	
15	QPSK	36	0	22.46	22.41	22.33	23.6
15	QPSK	36	20	22.45	22.35	22.28	
15	QPSK	36	39	22.43	22.30	22.26	
15	QPSK	75	0	22.45	22.32	22.26	23.6
15	16QAM	1	0	22.72	22.81	22.63	
15	16QAM	1	37	22.66	22.63	22.51	
15	16QAM	1	74	22.68	22.45	22.42	23.2
15	16QAM	36	0	21.47	21.45	21.40	
15	16QAM	36	20	21.42	21.47	21.33	
15	16QAM	36	39	21.44	21.52	21.35	23.2
15	16QAM	75	0	21.45	21.55	21.46	
15	64QAM	1	0	21.64	21.85	21.80	
15	64QAM	1	37	21.66	21.72	21.69	22.2
15	64QAM	1	74	21.63	21.67	21.57	
15	64QAM	36	0	20.62	20.65	20.61	
15	64QAM	36	20	20.64	20.70	20.54	20.2
15	64QAM	36	39	20.65	20.74	20.49	
15	64QAM	75	0	20.61	20.73	20.55	
15	256QAM	1	0	18.81	18.91	18.95	20.2
15	256QAM	1	37	18.77	18.82	18.66	
15	256QAM	1	74	19.08	18.80	18.80	
15	256QAM	36	0	18.70	18.82	18.80	20.2



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15	256QAM	36	20	18.73	18.65	18.72	
15	256QAM	36	39	18.71	18.62	18.65	
15	256QAM	75	0	18.70	18.74	18.71	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.54	23.57	23.55	23.6
10	QPSK	1	25	23.37	23.33	23.24	
10	QPSK	1	49	23.35	23.33	23.26	
10	QPSK	25	0	22.41	22.48	22.35	23.6
10	QPSK	25	12	22.42	22.46	22.37	
10	QPSK	25	25	22.50	22.42	22.36	
10	QPSK	50	0	22.48	22.46	22.40	23.6
10	16QAM	1	0	22.62	22.82	22.73	
10	16QAM	1	25	22.51	22.68	22.60	
10	16QAM	1	49	22.57	22.63	22.57	23.2
10	16QAM	25	0	21.55	21.55	21.44	
10	16QAM	25	12	21.61	21.69	21.45	
10	16QAM	25	25	21.61	21.66	21.58	23.2
10	16QAM	50	0	21.63	21.68	21.59	
10	64QAM	1	0	21.84	21.94	21.80	
10	64QAM	1	25	21.76	21.80	21.72	22.2
10	64QAM	1	49	21.92	21.83	21.83	
10	64QAM	25	0	20.76	20.81	20.60	
10	64QAM	25	12	20.77	20.87	20.64	20.2
10	64QAM	25	25	20.76	20.82	20.72	
10	64QAM	50	0	20.78	20.88	20.80	
10	256QAM	1	0	18.87	18.99	18.98	20.2
10	256QAM	1	25	18.76	18.82	18.73	
10	256QAM	1	49	19.05	18.81	18.81	
10	256QAM	25	0	18.69	18.78	18.78	20.2
10	256QAM	25	12	18.70	18.71	18.62	
10	256QAM	25	25	18.75	18.66	18.63	
10	256QAM	50	0	18.68	18.71	18.65	Tune-up limit (dBm)
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)
5	QPSK	1	0	23.45	23.40	23.37	
5	QPSK	1	12	23.40	23.32	23.29	23.6
5	QPSK	1	24	23.37	23.24	23.20	
5	QPSK	12	0	22.41	22.33	22.24	23.6
5	QPSK	12	7	22.39	22.32	22.23	
5	QPSK	12	13	22.39	22.31	22.23	
5	QPSK	25	0	22.44	22.31	22.21	23.6
5	16QAM	1	0	22.69	22.67	22.55	
5	16QAM	1	12	22.58	22.56	22.50	
5	16QAM	1	24	22.60	22.55	22.49	23.2
5	16QAM	12	0	21.45	21.52	21.40	
5	16QAM	12	7	21.44	21.57	21.49	
5	16QAM	12	13	21.41	21.54	21.48	23.2
5	16QAM	25	0	21.44	21.56	21.46	
5	64QAM	1	0	21.62	21.86	21.71	
5	64QAM	1	12	21.65	21.81	21.71	22.2
5	64QAM	1	24	21.67	21.81	21.69	
5	64QAM	12	0	20.60	20.74	20.65	
5	64QAM	12	7	20.58	20.72	20.64	20.2
5	64QAM	12	13	20.57	20.68	20.62	
5	64QAM	25	0	20.59	20.69	20.58	
5	256QAM	1	0	18.77	18.94	18.92	20.2
5	256QAM	1	12	18.86	18.81	18.65	
5	256QAM	1	24	19.02	18.90	18.87	
5	256QAM	12	0	18.69	18.82	18.76	20.2
5	256QAM	12	7	18.73	18.71	18.70	
5	256QAM	12	13	18.79	18.61	18.60	
5	256QAM	25	0	18.75	18.72	18.67	



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Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	23.57	23.51	23.58	23.6
3	QPSK	1	8	23.27	23.33	23.47	
3	QPSK	1	14	23.34	23.26	23.53	
3	QPSK	8	0	22.35	22.38	22.56	23.6
3	QPSK	8	4	22.35	22.44	22.58	
3	QPSK	8	7	22.36	22.46	22.58	
3	QPSK	15	0	22.38	22.49	22.62	23.6
3	16QAM	1	0	22.71	22.86	22.92	
3	16QAM	1	8	22.56	22.76	22.76	
3	16QAM	1	14	22.68	22.82	22.87	23.2
3	16QAM	8	0	21.38	21.52	21.67	
3	16QAM	8	4	21.40	21.63	21.72	
3	16QAM	8	7	21.52	21.68	21.70	23.2
3	16QAM	15	0	21.57	21.72	21.69	
3	64QAM	1	0	21.73	21.90	21.84	
3	64QAM	1	8	21.67	21.78	21.80	23.2
3	64QAM	1	14	21.74	21.83	21.86	
3	64QAM	8	0	20.59	20.76	20.76	
3	64QAM	8	4	20.60	20.88	20.78	22.2
3	64QAM	8	7	20.62	20.88	20.76	
3	64QAM	15	0	20.74	20.91	20.79	
3	256QAM	1	0	18.84	18.93	18.98	20.2
3	256QAM	1	8	18.79	18.79	18.64	
3	256QAM	1	14	19.06	18.88	18.78	
3	256QAM	8	0	18.72	18.82	18.79	20.2
3	256QAM	8	4	18.78	18.65	18.70	
3	256QAM	8	7	18.74	18.59	18.58	
3	256QAM	15	0	18.74	18.73	18.69	
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	23.46	23.40	23.55	23.6
1.4	QPSK	1	3	23.22	23.21	23.44	
1.4	QPSK	1	5	23.31	23.26	23.56	
1.4	QPSK	3	0	23.27	23.22	23.46	
1.4	QPSK	3	1	23.38	23.21	23.52	
1.4	QPSK	3	3	23.32	23.22	23.50	
1.4	QPSK	6	0	22.31	22.25	22.51	23.6
1.4	16QAM	1	0	22.60	22.69	22.78	23.6
1.4	16QAM	1	3	22.46	22.62	22.62	
1.4	16QAM	1	5	22.60	22.72	22.80	
1.4	16QAM	3	0	22.37	22.47	22.55	
1.4	16QAM	3	1	22.41	22.52	22.57	
1.4	16QAM	3	3	22.33	22.51	22.58	
1.4	16QAM	6	0	21.36	21.50	21.67	23.2
1.4	64QAM	1	0	21.58	21.76	21.85	23.2
1.4	64QAM	1	3	21.48	21.75	21.78	
1.4	64QAM	1	5	21.60	21.84	21.82	
1.4	64QAM	3	0	21.52	21.68	21.75	
1.4	64QAM	3	1	21.54	21.61	21.73	
1.4	64QAM	3	3	21.52	21.68	21.68	
1.4	64QAM	6	0	20.51	20.70	20.72	22.2
1.4	256QAM	1	0	18.97	18.82	18.79	20.2
1.4	256QAM	1	3	18.80	18.75	18.66	
1.4	256QAM	1	5	18.87	18.78	18.77	
1.4	256QAM	3	0	18.77	18.71	18.74	
1.4	256QAM	3	1	18.77	18.74	18.74	
1.4	256QAM	3	3	18.78	18.74	18.71	
1.4	256QAM	6	0	18.69	18.67	18.64	20.2

**<LTE Band 66_Ant 2_Index 2>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.97	24.10	24.00	
20	QPSK	1	49	24.02	23.97	23.95	25.7
20	QPSK	1	99	23.84	23.72	23.75	
20	QPSK	50	0	23.05	23.06	22.98	
20	QPSK	50	24	23.02	22.96	22.92	24.7
20	QPSK	50	50	22.97	22.89	22.88	
20	QPSK	100	0	22.99	22.93	22.91	
20	16QAM	1	0	23.30	23.40	23.43	24.7
20	16QAM	1	49	23.26	23.32	23.29	
20	16QAM	1	99	23.25	23.10	23.06	
20	16QAM	50	0	22.03	22.05	22.01	23.7
20	16QAM	50	24	21.98	22.00	21.98	
20	16QAM	50	50	21.95	21.91	21.91	
20	16QAM	100	0	21.95	21.92	21.91	23.7
20	64QAM	1	0	22.15	22.25	22.30	
20	64QAM	1	49	22.13	22.19	22.10	
20	64QAM	1	99	22.14	22.10	22.05	22.7
20	64QAM	50	0	21.02	21.09	21.05	
20	64QAM	50	24	21.04	21.18	20.99	
20	64QAM	50	50	21.01	21.11	21.06	20.7
20	64QAM	100	0	21.05	21.11	21.09	
20	256QAM	1	0	20.11	20.25	20.24	
20	256QAM	1	49	19.96	20.01	19.85	20.7
20	256QAM	1	99	20.10	19.96	19.96	
20	256QAM	50	0	19.84	19.92	20.01	
20	256QAM	50	24	19.81	19.86	19.91	20.7
20	256QAM	50	50	19.86	19.81	19.87	
20	256QAM	100	0	19.88	19.92	19.96	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	24.01	24.03	23.90	
15	QPSK	1	37	23.76	23.90	23.85	25.7
15	QPSK	1	74	23.89	23.88	23.79	
15	QPSK	36	0	23.04	23.00	23.05	24.7
15	QPSK	36	20	23.03	22.99	23.02	
15	QPSK	36	39	22.93	22.95	22.99	
15	QPSK	75	0	23.01	22.98	22.99	24.7
15	16QAM	1	0	23.29	23.15	23.64	
15	16QAM	1	37	23.56	23.41	23.39	
15	16QAM	1	74	23.23	23.31	23.41	23.7
15	16QAM	36	0	22.10	22.08	22.10	
15	16QAM	36	20	22.01	22.13	21.92	
15	16QAM	36	39	22.06	22.00	22.00	23.7
15	16QAM	75	0	21.98	21.97	21.94	
15	64QAM	1	0	22.37	22.46	22.37	
15	64QAM	1	37	22.05	22.15	21.91	22.7
15	64QAM	1	74	21.63	22.16	22.23	
15	64QAM	36	0	21.01	21.10	21.13	
15	64QAM	36	20	20.99	21.09	20.99	20.7
15	64QAM	36	39	21.08	21.04	21.03	
15	64QAM	75	0	20.98	21.10	20.99	
15	256QAM	1	0	20.15	20.09	20.30	20.7
15	256QAM	1	37	20.16	20.14	20.26	
15	256QAM	1	74	20.18	20.10	20.15	
15	256QAM	36	0	20.14	20.02	20.11	20.7
15	256QAM	36	20	20.03	19.95	20.09	



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15	256QAM	36	39	19.98	19.96	20.09	
15	256QAM	75	0	20.02	19.95	20.02	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	24.01	24.03	24.04	25.7
10	QPSK	1	25	23.68	23.81	23.80	
10	QPSK	1	49	23.74	23.79	23.76	
10	QPSK	25	0	22.84	23.02	22.92	24.7
10	QPSK	25	12	22.89	23.00	22.97	
10	QPSK	25	25	22.97	22.98	22.97	
10	QPSK	50	0	22.99	23.02	23.00	
10	16QAM	1	0	23.03	23.31	23.34	24.7
10	16QAM	1	25	22.97	23.23	23.26	
10	16QAM	1	49	22.98	23.18	23.18	
10	16QAM	25	0	22.07	22.15	22.04	23.7
10	16QAM	25	12	22.03	22.27	22.16	
10	16QAM	25	25	22.15	22.22	22.19	
10	16QAM	50	0	22.19	22.20	22.20	
10	64QAM	1	0	22.34	22.38	22.42	23.7
10	64QAM	1	25	22.32	22.33	22.42	
10	64QAM	1	49	22.35	22.44	22.41	
10	64QAM	25	0	21.18	21.25	21.22	22.7
10	64QAM	25	12	21.19	21.23	21.18	
10	64QAM	25	25	21.19	21.18	21.17	
10	64QAM	50	0	21.21	21.27	21.23	
10	256QAM	1	0	20.11	20.16	20.25	20.7
10	256QAM	1	25	19.92	20.00	20.17	
10	256QAM	1	49	19.85	19.94	20.13	
10	256QAM	25	0	19.91	19.93	20.03	20.7
10	256QAM	25	12	19.84	19.90	20.04	
10	256QAM	25	25	19.90	19.91	20.01	
10	256QAM	50	0	19.82	19.88	19.99	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.99	24.06	24.00	25.7
5	QPSK	1	12	24.04	24.06	24.09	
5	QPSK	1	24	24.01	24.05	24.05	
5	QPSK	12	0	23.03	23.11	23.07	24.7
5	QPSK	12	7	23.07	23.11	23.07	
5	QPSK	12	13	23.06	23.10	23.08	
5	QPSK	25	0	23.07	23.09	23.07	
5	16QAM	1	0	23.34	23.48	23.42	24.7
5	16QAM	1	12	23.28	23.34	23.30	
5	16QAM	1	24	23.32	23.38	23.38	
5	16QAM	12	0	22.09	22.16	22.13	23.7
5	16QAM	12	7	22.09	22.17	22.13	
5	16QAM	12	13	22.06	22.15	22.10	
5	16QAM	25	0	22.08	22.12	22.06	
5	64QAM	1	0	22.21	22.26	22.32	23.7
5	64QAM	1	12	22.32	22.31	22.38	
5	64QAM	1	24	22.12	22.22	22.27	
5	64QAM	12	0	21.10	21.20	21.11	22.7
5	64QAM	12	7	21.08	21.14	21.06	
5	64QAM	12	13	21.06	21.12	21.04	
5	64QAM	25	0	21.00	21.05	21.01	
5	256QAM	1	0	20.02	20.13	20.07	20.7
5	256QAM	1	12	19.75	19.82	19.79	
5	256QAM	1	24	20.09	20.02	20.07	
5	256QAM	12	0	19.95	19.98	19.98	20.7
5	256QAM	12	7	19.99	19.94	19.99	
5	256QAM	12	13	20.03	19.94	19.98	
5	256QAM	25	0	19.87	19.92	19.88	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.87	23.96	24.06	25.7
3	QPSK	1	8	23.58	23.63	23.91	
3	QPSK	1	14	23.62	23.68	23.97	
3	QPSK	8	0	22.63	22.71	23.05	24.7
3	QPSK	8	4	22.66	22.77	23.07	
3	QPSK	8	7	22.65	22.84	23.06	
3	QPSK	15	0	22.68	22.86	23.08	
3	16QAM	1	0	22.95	23.14	23.39	24.7
3	16QAM	1	8	22.72	22.99	23.25	
3	16QAM	1	14	22.84	23.05	23.33	
3	16QAM	8	0	21.68	21.93	22.03	23.7
3	16QAM	8	4	21.71	21.98	22.07	
3	16QAM	8	7	21.82	22.11	22.07	
3	16QAM	15	0	21.88	22.13	22.04	
3	64QAM	1	0	22.02	22.21	22.17	23.7
3	64QAM	1	8	21.94	22.20	22.16	
3	64QAM	1	14	21.99	22.22	22.22	
3	64QAM	8	0	20.87	21.16	21.08	22.7
3	64QAM	8	4	20.85	21.15	21.09	
3	64QAM	8	7	20.97	21.15	21.10	
3	64QAM	15	0	21.07	21.22	21.14	
3	256QAM	1	0	20.06	20.25	20.06	20.7
3	256QAM	1	8	19.94	20.11	20.00	
3	256QAM	1	14	19.97	20.09	20.03	
3	256QAM	8	0	19.83	19.94	19.97	20.7
3	256QAM	8	4	19.78	19.91	19.93	
3	256QAM	8	7	19.83	19.95	19.95	
3	256QAM	15	0	19.77	19.91	19.94	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.86	23.86	24.01	25.7
1.4	QPSK	1	3	23.66	23.82	23.90	
1.4	QPSK	1	5	23.61	23.86	24.00	
1.4	QPSK	3	0	23.55	23.71	23.91	
1.4	QPSK	3	1	23.66	23.72	24.03	
1.4	QPSK	3	3	23.60	23.67	23.98	
1.4	QPSK	6	0	22.56	22.84	23.01	24.7
1.4	16QAM	1	0	22.86	23.20	23.30	24.7
1.4	16QAM	1	3	22.76	23.09	23.20	
1.4	16QAM	1	5	22.89	23.16	23.28	
1.4	16QAM	3	0	22.69	22.98	23.09	
1.4	16QAM	3	1	22.64	22.91	23.07	
1.4	16QAM	3	3	22.66	22.92	23.03	23.7
1.4	16QAM	6	0	21.74	22.02	22.03	
1.4	64QAM	1	0	21.96	22.28	22.19	23.7
1.4	64QAM	1	3	21.83	22.12	22.05	
1.4	64QAM	1	5	21.99	22.25	22.17	
1.4	64QAM	3	0	21.83	22.14	22.07	
1.4	64QAM	3	1	21.86	22.15	22.08	
1.4	64QAM	3	3	21.96	22.18	22.10	22.7
1.4	64QAM	6	0	21.00	21.10	21.05	
1.4	256QAM	1	0	20.04	19.95	20.08	20.7
1.4	256QAM	1	3	19.95	19.91	20.06	
1.4	256QAM	1	5	20.06	20.02	20.11	
1.4	256QAM	3	0	19.95	19.88	20.04	
1.4	256QAM	3	1	20.07	19.96	20.12	
1.4	256QAM	3	3	20.00	19.98	20.03	20.7
1.4	256QAM	6	0	19.98	19.89	20.07	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.97	24.10	24.00	25.5
20	QPSK	1	49	24.02	23.97	23.95	
20	QPSK	1	99	23.84	23.72	23.75	
20	QPSK	50	0	23.05	23.06	22.98	24.7
20	QPSK	50	24	23.02	22.96	22.92	
20	QPSK	50	50	22.97	22.89	22.88	
20	QPSK	100	0	22.99	22.93	22.91	24.7
20	16QAM	1	0	23.30	23.40	23.43	
20	16QAM	1	49	23.26	23.32	23.29	
20	16QAM	1	99	23.25	23.10	23.06	23.7
20	16QAM	50	0	22.03	22.05	22.01	
20	16QAM	50	24	21.98	22.00	21.98	
20	16QAM	50	50	21.95	21.91	21.91	23.7
20	16QAM	100	0	21.95	21.92	21.91	
20	64QAM	1	0	22.15	22.25	22.30	
20	64QAM	1	49	22.13	22.19	22.10	22.7
20	64QAM	1	99	22.14	22.10	22.05	
20	64QAM	50	0	21.02	21.09	21.05	
20	64QAM	50	24	21.04	21.18	20.99	20.7
20	64QAM	50	50	21.01	21.11	21.06	
20	64QAM	100	0	21.05	21.11	21.09	
20	256QAM	1	0	20.11	20.25	20.24	20.7
20	256QAM	1	49	19.96	20.01	19.85	
20	256QAM	1	99	20.10	19.96	19.96	
20	256QAM	50	0	19.84	19.92	20.01	20.7
20	256QAM	50	24	19.81	19.86	19.91	
20	256QAM	50	50	19.86	19.81	19.87	
20	256QAM	100	0	19.88	19.92	19.96	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	24.01	24.03	23.90	25.5
15	QPSK	1	37	23.76	23.90	23.85	
15	QPSK	1	74	23.89	23.88	23.79	
15	QPSK	36	0	23.04	23.00	23.05	24.7
15	QPSK	36	20	23.03	22.99	23.02	
15	QPSK	36	39	22.93	22.95	22.99	
15	QPSK	75	0	23.01	22.98	22.99	24.7
15	16QAM	1	0	23.29	23.15	23.64	
15	16QAM	1	37	23.56	23.41	23.39	
15	16QAM	1	74	23.23	23.31	23.41	23.7
15	16QAM	36	0	22.10	22.08	22.10	
15	16QAM	36	20	22.01	22.13	21.92	
15	16QAM	36	39	22.06	22.00	22.00	23.7
15	16QAM	75	0	21.98	21.97	21.94	
15	64QAM	1	0	22.37	22.46	22.37	
15	64QAM	1	37	22.05	22.15	21.91	22.7
15	64QAM	1	74	21.63	22.16	22.23	
15	64QAM	36	0	21.01	21.10	21.13	
15	64QAM	36	20	20.99	21.09	20.99	20.7
15	64QAM	36	39	21.08	21.04	21.03	
15	64QAM	75	0	20.98	21.10	20.99	
15	256QAM	1	0	20.15	20.09	20.30	20.7
15	256QAM	1	37	20.16	20.14	20.26	
15	256QAM	1	74	20.18	20.10	20.15	
15	256QAM	36	0	20.14	20.02	20.11	20.7
15	256QAM	36	20	20.03	19.95	20.09	



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15	256QAM	36	39	19.98	19.96	20.09	
15	256QAM	75	0	20.02	19.95	20.02	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	24.01	24.03	24.04	25.5
10	QPSK	1	25	23.68	23.81	23.80	
10	QPSK	1	49	23.74	23.79	23.76	
10	QPSK	25	0	22.84	23.02	22.92	24.7
10	QPSK	25	12	22.89	23.00	22.97	
10	QPSK	25	25	22.97	22.98	22.97	
10	QPSK	50	0	22.99	23.02	23.00	
10	16QAM	1	0	23.03	23.31	23.34	24.7
10	16QAM	1	25	22.97	23.23	23.26	
10	16QAM	1	49	22.98	23.18	23.18	
10	16QAM	25	0	22.07	22.15	22.04	23.7
10	16QAM	25	12	22.03	22.27	22.16	
10	16QAM	25	25	22.15	22.22	22.19	
10	16QAM	50	0	22.19	22.20	22.20	
10	64QAM	1	0	22.34	22.38	22.42	23.7
10	64QAM	1	25	22.32	22.33	22.42	
10	64QAM	1	49	22.35	22.44	22.41	
10	64QAM	25	0	21.18	21.25	21.22	22.7
10	64QAM	25	12	21.19	21.23	21.18	
10	64QAM	25	25	21.19	21.18	21.17	
10	64QAM	50	0	21.21	21.27	21.23	
10	256QAM	1	0	20.11	20.16	20.25	20.7
10	256QAM	1	25	19.92	20.00	20.17	
10	256QAM	1	49	19.85	19.94	20.13	
10	256QAM	25	0	19.91	19.93	20.03	20.7
10	256QAM	25	12	19.84	19.90	20.04	
10	256QAM	25	25	19.90	19.91	20.01	
10	256QAM	50	0	19.82	19.88	19.99	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.99	24.06	24.00	25.5
5	QPSK	1	12	24.04	24.06	24.09	
5	QPSK	1	24	24.01	24.05	24.05	
5	QPSK	12	0	23.03	23.11	23.07	24.7
5	QPSK	12	7	23.07	23.11	23.07	
5	QPSK	12	13	23.06	23.10	23.08	
5	QPSK	25	0	23.07	23.09	23.07	
5	16QAM	1	0	23.34	23.48	23.42	24.7
5	16QAM	1	12	23.28	23.34	23.30	
5	16QAM	1	24	23.32	23.38	23.38	
5	16QAM	12	0	22.09	22.16	22.13	23.7
5	16QAM	12	7	22.09	22.17	22.13	
5	16QAM	12	13	22.06	22.15	22.10	
5	16QAM	25	0	22.08	22.12	22.06	
5	64QAM	1	0	22.21	22.26	22.32	23.7
5	64QAM	1	12	22.32	22.31	22.38	
5	64QAM	1	24	22.12	22.22	22.27	
5	64QAM	12	0	21.10	21.20	21.11	22.7
5	64QAM	12	7	21.08	21.14	21.06	
5	64QAM	12	13	21.06	21.12	21.04	
5	64QAM	25	0	21.00	21.05	21.01	
5	256QAM	1	0	20.02	20.13	20.07	20.7
5	256QAM	1	12	19.75	19.82	19.79	
5	256QAM	1	24	20.09	20.02	20.07	
5	256QAM	12	0	19.95	19.98	19.98	20.7
5	256QAM	12	7	19.99	19.94	19.99	
5	256QAM	12	13	20.03	19.94	19.98	
5	256QAM	25	0	19.87	19.92	19.88	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.87	23.96	24.06	25.5
3	QPSK	1	8	23.58	23.63	23.91	
3	QPSK	1	14	23.62	23.68	23.97	
3	QPSK	8	0	22.63	22.71	23.05	24.7
3	QPSK	8	4	22.66	22.77	23.07	
3	QPSK	8	7	22.65	22.84	23.06	
3	QPSK	15	0	22.68	22.86	23.08	
3	16QAM	1	0	22.95	23.14	23.39	24.7
3	16QAM	1	8	22.72	22.99	23.25	
3	16QAM	1	14	22.84	23.05	23.33	
3	16QAM	8	0	21.68	21.93	22.03	23.7
3	16QAM	8	4	21.71	21.98	22.07	
3	16QAM	8	7	21.82	22.11	22.07	
3	16QAM	15	0	21.88	22.13	22.04	
3	64QAM	1	0	22.02	22.21	22.17	23.7
3	64QAM	1	8	21.94	22.20	22.16	
3	64QAM	1	14	21.99	22.22	22.22	
3	64QAM	8	0	20.87	21.16	21.08	22.7
3	64QAM	8	4	20.85	21.15	21.09	
3	64QAM	8	7	20.97	21.15	21.10	
3	64QAM	15	0	21.07	21.22	21.14	
3	256QAM	1	0	20.06	20.25	20.06	20.7
3	256QAM	1	8	19.94	20.11	20.00	
3	256QAM	1	14	19.97	20.09	20.03	
3	256QAM	8	0	19.83	19.94	19.97	20.7
3	256QAM	8	4	19.78	19.91	19.93	
3	256QAM	8	7	19.83	19.95	19.95	
3	256QAM	15	0	19.77	19.91	19.94	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.86	23.86	24.01	25.5
1.4	QPSK	1	3	23.66	23.82	23.90	
1.4	QPSK	1	5	23.61	23.86	24.00	
1.4	QPSK	3	0	23.55	23.71	23.91	
1.4	QPSK	3	1	23.66	23.72	24.03	
1.4	QPSK	3	3	23.60	23.67	23.98	
1.4	QPSK	6	0	22.56	22.84	23.01	24.7
1.4	16QAM	1	0	22.86	23.20	23.30	24.7
1.4	16QAM	1	3	22.76	23.09	23.20	
1.4	16QAM	1	5	22.89	23.16	23.28	
1.4	16QAM	3	0	22.69	22.98	23.09	
1.4	16QAM	3	1	22.64	22.91	23.07	
1.4	16QAM	3	3	22.66	22.92	23.03	23.7
1.4	16QAM	6	0	21.74	22.02	22.03	
1.4	64QAM	1	0	21.96	22.28	22.19	23.7
1.4	64QAM	1	3	21.83	22.12	22.05	
1.4	64QAM	1	5	21.99	22.25	22.17	
1.4	64QAM	3	0	21.83	22.14	22.07	
1.4	64QAM	3	1	21.86	22.15	22.08	
1.4	64QAM	3	3	21.96	22.18	22.10	22.7
1.4	64QAM	6	0	21.00	21.10	21.05	
1.4	256QAM	1	0	20.04	19.95	20.08	20.7
1.4	256QAM	1	3	19.95	19.91	20.06	
1.4	256QAM	1	5	20.06	20.02	20.11	
1.4	256QAM	3	0	19.95	19.88	20.04	
1.4	256QAM	3	1	20.07	19.96	20.12	
1.4	256QAM	3	3	20.00	19.98	20.03	20.7
1.4	256QAM	6	0	19.98	19.89	20.07	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.28	22.30	22.37	23
20	QPSK	1	49	21.96	22.23	22.09	
20	QPSK	1	99	21.95	21.96	21.98	
20	QPSK	50	0	22.16	22.21	22.13	23
20	QPSK	50	24	22.15	22.10	22.03	
20	QPSK	50	50	22.07	22.05	21.97	
20	QPSK	100	0	22.05	22.06	21.98	23
20	16QAM	1	0	22.54	22.61	22.60	
20	16QAM	1	49	22.33	22.37	22.33	
20	16QAM	1	99	22.30	22.33	22.33	23
20	16QAM	50	0	21.68	21.70	21.65	
20	16QAM	50	24	21.58	21.78	21.60	
20	16QAM	50	50	21.65	21.75	21.66	23
20	16QAM	100	0	21.70	21.69	21.68	
20	64QAM	1	0	21.87	22.05	22.13	
20	64QAM	1	49	21.86	22.10	21.98	23
20	64QAM	1	99	21.90	21.96	21.80	
20	64QAM	50	0	21.84	21.90	21.82	
20	64QAM	50	24	21.86	21.84	21.80	22.7
20	64QAM	50	50	21.73	21.81	21.71	
20	64QAM	100	0	21.80	21.80	21.72	
20	256QAM	1	0	20.11	20.17	20.06	20.7
20	256QAM	1	49	19.82	19.98	19.72	
20	256QAM	1	99	20.01	19.88	19.91	
20	256QAM	50	0	19.78	19.83	19.88	20.7
20	256QAM	50	24	19.66	19.73	19.81	
20	256QAM	50	50	19.79	19.76	19.79	
20	256QAM	100	0	19.84	19.83	19.77	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.24	22.31	22.38	23
15	QPSK	1	37	21.93	22.19	22.14	
15	QPSK	1	74	21.95	21.96	21.91	
15	QPSK	36	0	22.07	22.15	22.07	23
15	QPSK	36	20	22.06	22.02	21.94	
15	QPSK	36	39	21.95	21.95	21.97	
15	QPSK	75	0	22.03	22.08	21.94	23
15	16QAM	1	0	22.44	22.53	22.60	
15	16QAM	1	37	22.28	22.29	22.20	
15	16QAM	1	74	22.33	22.22	22.24	23
15	16QAM	36	0	21.61	21.61	21.64	
15	16QAM	36	20	21.54	21.68	21.55	
15	16QAM	36	39	21.55	21.67	21.66	23
15	16QAM	75	0	21.70	21.70	21.67	
15	64QAM	1	0	21.75	22.04	22.13	
15	64QAM	1	37	21.78	22.06	21.81	23
15	64QAM	1	74	21.89	21.88	21.77	
15	64QAM	36	0	21.79	21.78	21.76	
15	64QAM	36	20	21.85	21.81	21.68	22.7
15	64QAM	36	39	21.80	21.67	21.68	
15	64QAM	75	0	21.69	21.83	21.65	
15	256QAM	1	0	20.04	20.21	19.99	20.7
15	256QAM	1	37	19.68	19.86	19.70	
15	256QAM	1	74	19.98	19.86	19.88	
15	256QAM	36	0	19.75	19.80	19.94	20.7
15	256QAM	36	20	19.68	19.67	19.73	



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15	256QAM	36	39	19.67	19.67	19.76	Tune-up limit (dBm)
15	256QAM	75	0	19.76	19.74	19.75	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.26	22.27	22.26	23
10	QPSK	1	25	21.93	22.14	22.12	
10	QPSK	1	49	21.93	21.87	21.86	
10	QPSK	25	0	22.08	22.13	22.12	23
10	QPSK	25	12	22.03	22.03	22.07	
10	QPSK	25	25	22.07	21.94	21.85	
10	QPSK	50	0	22.02	22.05	21.99	
10	16QAM	1	0	22.47	22.46	22.48	23
10	16QAM	1	25	22.23	22.30	22.25	
10	16QAM	1	49	22.31	22.36	22.29	
10	16QAM	25	0	21.60	21.58	21.71	23
10	16QAM	25	12	21.58	21.74	21.57	
10	16QAM	25	25	21.65	21.73	21.66	
10	16QAM	50	0	21.68	21.67	21.61	
10	64QAM	1	0	21.78	22.09	22.09	23
10	64QAM	1	25	21.89	22.04	21.83	
10	64QAM	1	49	21.88	21.83	21.71	
10	64QAM	25	0	21.78	21.75	21.83	22.7
10	64QAM	25	12	21.77	21.78	21.82	
10	64QAM	25	25	21.69	21.73	21.71	
10	64QAM	50	0	21.68	21.77	21.70	
10	256QAM	1	0	20.04	20.14	20.14	20.7
10	256QAM	1	25	19.75	19.83	19.65	
10	256QAM	1	49	19.98	19.81	19.77	
10	256QAM	25	0	19.64	19.85	19.88	20.7
10	256QAM	25	12	19.75	19.69	19.78	
10	256QAM	25	25	19.67	19.66	19.81	
10	256QAM	50	0	19.80	19.83	19.81	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.20	22.36	22.32	23
5	QPSK	1	12	21.93	22.18	22.02	
5	QPSK	1	24	21.96	21.98	21.95	
5	QPSK	12	0	22.13	22.16	22.10	23
5	QPSK	12	7	22.08	22.11	21.98	
5	QPSK	12	13	22.01	21.97	21.89	
5	QPSK	25	0	22.03	22.08	21.95	
5	16QAM	1	0	22.40	22.50	22.59	23
5	16QAM	1	12	22.21	22.27	22.28	
5	16QAM	1	24	22.18	22.28	22.13	
5	16QAM	12	0	21.61	21.65	21.63	23
5	16QAM	12	7	21.55	21.79	21.57	
5	16QAM	12	13	21.55	21.73	21.67	
5	16QAM	25	0	21.73	21.75	21.65	
5	64QAM	1	0	21.84	21.99	22.04	23
5	64QAM	1	12	21.84	22.03	21.92	
5	64QAM	1	24	21.82	21.93	21.68	
5	64QAM	12	0	21.86	21.89	21.84	22.7
5	64QAM	12	7	21.73	21.80	21.83	
5	64QAM	12	13	21.76	21.70	21.73	
5	64QAM	25	0	21.72	21.73	21.67	
5	256QAM	1	0	19.97	20.19	20.01	20.7
5	256QAM	1	12	19.78	19.92	19.65	
5	256QAM	1	24	19.95	19.85	19.91	
5	256QAM	12	0	19.74	19.72	19.78	20.7
5	256QAM	12	7	19.68	19.61	19.79	
5	256QAM	12	13	19.74	19.69	19.79	
5	256QAM	25	0	19.86	19.80	19.81	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.14	22.34	22.21	23
3	QPSK	1	8	21.87	22.04	22.07	
3	QPSK	1	14	21.96	21.92	21.94	
3	QPSK	8	0	22.18	22.13	22.14	23
3	QPSK	8	4	22.04	22.01	21.98	
3	QPSK	8	7	21.90	21.95	21.94	
3	QPSK	15	0	21.99	22.11	21.99	
3	16QAM	1	0	22.43	22.56	22.54	23
3	16QAM	1	8	22.23	22.25	22.31	
3	16QAM	1	14	22.34	22.22	22.28	
3	16QAM	8	0	21.59	21.64	21.57	23
3	16QAM	8	4	21.55	21.79	21.50	
3	16QAM	8	7	21.50	21.70	21.65	
3	16QAM	15	0	21.63	21.66	21.60	
3	64QAM	1	0	21.84	21.97	22.07	23
3	64QAM	1	8	21.89	22.02	21.93	
3	64QAM	1	14	21.85	21.89	21.69	
3	64QAM	8	0	21.84	21.79	21.83	22.7
3	64QAM	8	4	21.70	21.78	21.75	
3	64QAM	8	7	21.69	21.77	21.77	
3	64QAM	15	0	21.69	21.67	21.70	
3	256QAM	1	0	20.03	20.20	20.08	20.7
3	256QAM	1	8	19.80	19.96	19.71	
3	256QAM	1	14	20.00	19.76	19.84	
3	256QAM	8	0	19.63	19.72	19.79	20.7
3	256QAM	8	4	19.60	19.73	19.80	
3	256QAM	8	7	19.80	19.61	19.72	
3	256QAM	15	0	19.80	19.79	19.82	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.17	22.27	22.27	23
1.4	QPSK	1	3	21.89	22.21	22.09	
1.4	QPSK	1	5	21.90	21.97	21.85	
1.4	QPSK	3	0	22.07	22.21	22.09	
1.4	QPSK	3	1	22.08	22.12	21.96	
1.4	QPSK	3	3	21.94	21.96	21.88	
1.4	QPSK	6	0	22.07	22.08	21.91	23
1.4	16QAM	1	0	22.45	22.50	22.59	23
1.4	16QAM	1	3	22.28	22.30	22.32	
1.4	16QAM	1	5	22.23	22.22	22.28	
1.4	16QAM	3	0	22.32	22.35	22.25	
1.4	16QAM	3	1	22.26	22.28	22.36	
1.4	16QAM	3	3	22.28	22.30	22.20	23
1.4	16QAM	6	0	21.69	21.72	21.63	
1.4	64QAM	1	0	21.75	22.06	22.13	23
1.4	64QAM	1	3	21.85	22.09	21.85	
1.4	64QAM	1	5	21.81	21.80	21.72	
1.4	64QAM	3	0	21.83	21.86	21.80	
1.4	64QAM	3	1	21.69	21.82	21.74	
1.4	64QAM	3	3	21.68	21.63	21.74	
1.4	64QAM	6	0	21.71	21.75	21.71	22.7
1.4	256QAM	1	0	20.08	20.13	20.05	20.7
1.4	256QAM	1	3	19.81	19.98	19.71	
1.4	256QAM	1	5	19.90	19.81	19.78	
1.4	256QAM	3	0	19.70	19.83	19.89	
1.4	256QAM	3	1	19.66	19.77	19.86	
1.4	256QAM	3	3	19.69	19.68	19.69	
1.4	256QAM	6	0	19.79	19.79	19.79	20.7

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.31	23.40	23.39	
20	QPSK	1	49	23.03	23.23	23.15	24.1
20	QPSK	1	99	23.01	23.01	23.01	
20	QPSK	50	0	23.19	23.25	23.17	
20	QPSK	50	24	23.16	23.16	23.09	24.1
20	QPSK	50	50	23.10	23.07	23.04	
20	QPSK	100	0	23.13	23.14	23.08	
20	16QAM	1	0	23.55	23.58	23.68	24.1
20	16QAM	1	49	23.36	23.40	23.36	
20	16QAM	1	99	23.36	23.37	23.33	
20	16QAM	50	0	22.69	22.73	22.72	23.7
20	16QAM	50	24	22.68	22.85	22.68	
20	16QAM	50	50	22.69	22.78	22.72	
20	16QAM	100	0	22.77	22.78	22.73	23.7
20	64QAM	1	0	22.91	23.10	23.19	
20	64QAM	1	49	22.92	23.15	22.99	
20	64QAM	1	99	22.94	22.98	22.83	22.7
20	64QAM	50	0	21.90	21.94	21.91	
20	64QAM	50	24	21.86	21.91	21.87	
20	64QAM	50	50	21.82	21.83	21.78	20.7
20	64QAM	100	0	21.80	21.85	21.77	
20	256QAM	1	0	20.11	20.25	20.15	
20	256QAM	1	49	19.87	20.01	19.82	20.7
20	256QAM	1	99	20.05	19.92	19.93	
20	256QAM	50	0	19.82	19.90	19.95	
20	256QAM	50	24	19.76	19.80	19.88	20.7
20	256QAM	50	50	19.82	19.78	19.84	
20	256QAM	100	0	19.88	19.88	19.86	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.25	23.34	23.38	
15	QPSK	1	37	22.95	23.23	23.14	24.1
15	QPSK	1	74	22.96	23.01	22.97	
15	QPSK	36	0	23.09	23.16	23.09	24.1
15	QPSK	36	20	23.07	23.07	23.03	
15	QPSK	36	39	23.02	23.00	23.00	
15	QPSK	75	0	23.05	23.10	23.04	24.1
15	16QAM	1	0	23.48	23.53	23.66	
15	16QAM	1	37	23.32	23.30	23.29	
15	16QAM	1	74	23.33	23.30	23.31	23.7
15	16QAM	36	0	22.66	22.69	22.65	
15	16QAM	36	20	22.64	22.75	22.61	
15	16QAM	36	39	22.64	22.72	22.68	23.7
15	16QAM	75	0	22.77	22.73	22.71	
15	64QAM	1	0	22.85	23.10	23.16	
15	64QAM	1	37	22.86	23.07	22.89	22.7
15	64QAM	1	74	22.92	22.95	22.77	
15	64QAM	36	0	21.85	21.84	21.82	
15	64QAM	36	20	21.86	21.83	21.78	20.7
15	64QAM	36	39	21.82	21.77	21.76	
15	64QAM	75	0	21.73	21.83	21.73	
15	256QAM	1	0	20.07	20.24	20.07	20.7
15	256QAM	1	37	19.78	19.92	19.74	
15	256QAM	1	74	19.98	19.87	19.88	
15	256QAM	36	0	19.75	19.83	19.94	20.7
15	256QAM	36	20	19.76	19.71	19.78	



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15	256QAM	36	39	19.74	19.76	19.79	Tune-up limit (dBm)
15	256QAM	75	0	19.81	19.78	19.85	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.28	23.34	23.32	24.1
10	QPSK	1	25	22.94	23.21	23.13	
10	QPSK	1	49	22.98	22.93	22.96	
10	QPSK	25	0	23.09	23.21	23.15	24.1
10	QPSK	25	12	23.13	23.08	23.08	
10	QPSK	25	25	23.07	23.02	22.94	
10	QPSK	50	0	23.12	23.10	23.05	
10	16QAM	1	0	23.49	23.55	23.58	24.1
10	16QAM	1	25	23.27	23.40	23.32	
10	16QAM	1	49	23.36	23.37	23.30	
10	16QAM	25	0	22.65	22.67	22.71	23.7
10	16QAM	25	12	22.62	22.83	22.58	
10	16QAM	25	25	22.66	22.77	22.67	
10	16QAM	50	0	22.74	22.77	22.66	
10	64QAM	1	0	22.88	23.10	23.11	23.7
10	64QAM	1	25	22.89	23.06	22.91	
10	64QAM	1	49	22.93	22.92	22.79	
10	64QAM	25	0	21.80	21.84	21.84	22.7
10	64QAM	25	12	21.77	21.84	21.87	
10	64QAM	25	25	21.78	21.79	21.75	
10	64QAM	50	0	21.76	21.80	21.76	
10	256QAM	1	0	20.04	20.15	20.14	20.7
10	256QAM	1	25	19.77	19.93	19.75	
10	256QAM	1	49	20.02	19.88	19.86	
10	256QAM	25	0	19.73	19.89	19.93	20.7
10	256QAM	25	12	19.76	19.76	19.84	
10	256QAM	25	25	19.73	19.69	19.84	
10	256QAM	50	0	19.85	19.83	19.81	Tune-up limit (dBm)
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)
5	QPSK	1	0	23.27	23.37	23.35	
5	QPSK	1	12	23.03	23.20	23.05	24.1
5	QPSK	1	24	22.99	22.98	23.00	
5	QPSK	12	0	23.13	23.21	23.14	24.1
5	QPSK	12	7	23.15	23.14	23.03	
5	QPSK	12	13	23.05	23.00	22.95	
5	QPSK	25	0	23.10	23.14	23.03	
5	16QAM	1	0	23.49	23.50	23.60	24.1
5	16QAM	1	12	23.31	23.37	23.34	
5	16QAM	1	24	23.27	23.33	23.23	
5	16QAM	12	0	22.62	22.67	22.65	23.7
5	16QAM	12	7	22.61	22.81	22.66	
5	16QAM	12	13	22.65	22.77	22.67	
5	16QAM	25	0	22.77	22.76	22.72	
5	64QAM	1	0	22.86	23.01	23.13	23.7
5	64QAM	1	12	22.85	23.11	22.92	
5	64QAM	1	24	22.88	22.93	22.78	
5	64QAM	12	0	21.89	21.93	21.84	22.7
5	64QAM	12	7	21.82	21.81	21.87	
5	64QAM	12	13	21.81	21.77	21.76	
5	64QAM	25	0	21.79	21.82	21.70	
5	256QAM	1	0	20.06	20.19	20.09	20.7
5	256QAM	1	12	19.87	20.00	19.74	
5	256QAM	1	24	19.97	19.86	19.93	
5	256QAM	12	0	19.80	19.81	19.87	20.7
5	256QAM	12	7	19.73	19.70	19.79	
5	256QAM	12	13	19.82	19.69	19.79	
5	256QAM	25	0	19.87	19.86	19.81	



FCC SAR TEST REPORT

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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.21	23.34	23.30	24.1
3	QPSK	1	8	22.94	23.14	23.07	
3	QPSK	1	14	22.99	22.92	22.95	
3	QPSK	8	0	23.18	23.20	23.16	24.1
3	QPSK	8	4	23.06	23.08	23.03	
3	QPSK	8	7	23.00	23.02	22.97	
3	QPSK	15	0	23.08	23.14	23.07	
3	16QAM	1	0	23.53	23.57	23.59	24.1
3	16QAM	1	8	23.32	23.31	23.35	
3	16QAM	1	14	23.36	23.27	23.28	
3	16QAM	8	0	22.68	22.73	22.65	23.7
3	16QAM	8	4	22.65	22.81	22.58	
3	16QAM	8	7	22.59	22.76	22.66	
3	16QAM	15	0	22.73	22.76	22.64	
3	64QAM	1	0	22.85	23.01	23.14	23.7
3	64QAM	1	8	22.92	23.09	22.98	
3	64QAM	1	14	22.94	22.95	22.73	
3	64QAM	8	0	21.89	21.87	21.89	22.7
3	64QAM	8	4	21.76	21.83	21.80	
3	64QAM	8	7	21.78	21.79	21.78	
3	64QAM	15	0	21.74	21.75	21.71	
3	256QAM	1	0	20.07	20.24	20.08	20.7
3	256QAM	1	8	19.82	20.00	19.80	
3	256QAM	1	14	20.05	19.84	19.93	
3	256QAM	8	0	19.73	19.80	19.87	20.7
3	256QAM	8	4	19.68	19.80	19.86	
3	256QAM	8	7	19.80	19.68	19.79	
3	256QAM	15	0	19.85	19.84	19.84	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.23	23.34	23.30	24.1
1.4	QPSK	1	3	22.97	23.22	23.10	
1.4	QPSK	1	5	23.00	22.98	22.91	
1.4	QPSK	3	0	23.15	23.24	23.12	
1.4	QPSK	3	1	23.14	23.13	22.99	
1.4	QPSK	3	3	23.02	23.02	22.94	
1.4	QPSK	6	0	23.11	23.11	23.01	24.1
1.4	16QAM	1	0	23.54	23.51	23.60	24.1
1.4	16QAM	1	3	23.36	23.37	23.34	
1.4	16QAM	1	5	23.29	23.31	23.30	
1.4	16QAM	3	0	23.36	23.37	23.33	
1.4	16QAM	3	1	23.34	23.32	23.38	
1.4	16QAM	3	3	23.36	23.38	23.30	23.7
1.4	16QAM	6	0	22.69	22.78	22.66	
1.4	64QAM	1	0	22.82	23.10	23.18	
1.4	64QAM	1	3	22.92	23.10	22.90	
1.4	64QAM	1	5	22.91	22.89	22.79	23.7
1.4	64QAM	3	0	22.83	22.86	22.86	
1.4	64QAM	3	1	22.79	22.88	22.77	
1.4	64QAM	3	3	22.77	22.73	22.77	
1.4	64QAM	6	0	21.73	21.85	21.71	22.7
1.4	256QAM	1	0	20.10	20.20	20.09	20.7
1.4	256QAM	1	3	19.84	20.00	19.74	
1.4	256QAM	1	5	19.96	19.85	19.83	
1.4	256QAM	3	0	19.79	19.87	19.91	
1.4	256QAM	3	1	19.74	19.80	19.87	
1.4	256QAM	3	3	19.77	19.78	19.77	20.7
1.4	256QAM	6	0	19.87	19.88	19.85	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.63	23.57	23.51	
20	PI/2 BPSK	1	53	23.62	23.56	23.49	24.5
20	PI/2 BPSK	1	104	23.51	23.48	23.41	
20	PI/2 BPSK	50	0	23.15	23.07	23.03	
20	PI/2 BPSK	50	28	23.64	23.55	23.48	24.5
20	PI/2 BPSK	50	56	23.07	23.03	22.94	24.0
20	PI/2 BPSK	100	0	23.12	23.06	23.00	
20	QPSK	1	1	23.70	23.59	23.59	
20	QPSK	1	53	23.75	23.60	23.60	24.5
20	QPSK	1	104	23.62	23.47	23.43	
20	QPSK	50	0	22.67	22.58	22.56	
20	QPSK	50	28	23.65	23.54	23.49	24.5
20	QPSK	50	56	22.57	22.52	22.42	23.5
20	QPSK	100	0	22.61	22.54	22.50	
20	16QAM	1	1	22.75	22.59	22.59	
20	64QAM	1	1	21.24	21.07	21.11	22.0
20	256QAM	1	1	19.15	19.06	19.11	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.46	23.43	23.40	
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.50	23.44	23.42	
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.45	23.40	23.42	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.63	23.57	23.51	
20	PI/2 BPSK	1	53	23.62	23.56	23.49	24.0
20	PI/2 BPSK	1	104	23.51	23.48	23.41	
20	PI/2 BPSK	50	0	23.15	23.07	23.03	
20	PI/2 BPSK	50	28	23.64	23.55	23.48	24.0
20	PI/2 BPSK	50	56	23.07	23.03	22.94	24.0
20	PI/2 BPSK	100	0	23.12	23.06	23.00	
20	QPSK	1	1	23.70	23.59	23.59	
20	QPSK	1	53	23.75	23.60	23.60	24.0
20	QPSK	1	104	23.62	23.47	23.43	
20	QPSK	50	0	22.67	22.58	22.56	
20	QPSK	50	28	23.65	23.54	23.49	24.0
20	QPSK	50	56	22.57	22.52	22.42	23.5
20	QPSK	100	0	22.61	22.54	22.50	
20	16QAM	1	1	22.75	22.59	22.59	
20	64QAM	1	1	21.24	21.07	21.11	22.0
20	256QAM	1	1	19.15	19.06	19.11	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.46	23.43	23.40	
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.50	23.44	23.42	
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.45	23.40	23.42	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	25.0
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.31	24.32	24.31	
20	PI/2 BPSK	1	53	24.30	24.30	24.30	24.5
20	PI/2 BPSK	1	104	24.15	24.18	24.18	
20	PI/2 BPSK	50	0	23.78	23.68	23.74	
20	PI/2 BPSK	50	28	24.30	24.31	24.28	24.5
20	PI/2 BPSK	50	56	23.73	23.71	23.72	
20	PI/2 BPSK	100	0	23.80	23.83	23.82	
20	QPSK	1	1	24.30	24.25	24.14	25.0
20	QPSK	1	53	24.20	24.30	24.22	
20	QPSK	1	104	24.03	24.10	24.30	
20	QPSK	50	0	23.16	23.10	23.25	24.0
20	QPSK	50	28	24.10	24.10	24.21	
20	QPSK	50	56	23.10	23.32	23.39	
20	QPSK	100	0	23.16	23.35	23.43	24.0
20	16QAM	1	1	23.28	23.47	23.61	
20	64QAM	1	1	21.76	21.99	22.13	
20	256QAM	1	1	19.80	19.97	20.00	20.5
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.29	24.31	24.30	25.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.28	24.30	24.29	25.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.27	24.28	24.26	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.31	24.32	24.31	
20	PI/2 BPSK	1	53	24.30	24.30	24.30	24.5
20	PI/2 BPSK	1	104	24.15	24.18	24.18	
20	PI/2 BPSK	50	0	23.78	23.68	23.74	24.5
20	PI/2 BPSK	50	28	24.30	24.31	24.28	24.5
20	PI/2 BPSK	50	56	23.73	23.71	23.72	24.5
20	PI/2 BPSK	100	0	23.80	23.83	23.82	
20	QPSK	1	1	24.30	24.25	24.14	24.5
20	QPSK	1	53	24.20	24.30	24.22	
20	QPSK	1	104	24.03	24.10	24.30	
20	QPSK	50	0	23.16	23.10	23.25	24.0
20	QPSK	50	28	24.10	24.10	24.21	24.5
20	QPSK	50	56	23.10	23.32	23.39	24.0
20	QPSK	100	0	23.16	23.35	23.43	
20	16QAM	1	1	23.28	23.47	23.61	24.0
20	64QAM	1	1	21.76	21.99	22.13	22.5
20	256QAM	1	1	19.80	19.97	20.00	20.5
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.29	24.31	24.30	24.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.28	24.30	24.29	24.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.27	24.28	24.26	24.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	19.69	19.72	19.62	
20	PI/2 BPSK	1	53	19.50	19.50	19.52	20.4
20	PI/2 BPSK	1	104	19.44	19.46	19.47	
20	PI/2 BPSK	50	0	19.48	19.57	19.42	20.4
20	PI/2 BPSK	50	28	19.53	19.58	19.47	20.4
20	PI/2 BPSK	50	56	19.45	19.53	19.45	20.4
20	PI/2 BPSK	100	0	19.61	19.62	19.52	
20	QPSK	1	1	19.45	19.48	19.45	20.4
20	QPSK	1	53	19.41	19.51	19.48	
20	QPSK	1	104	19.40	19.37	19.38	
20	QPSK	50	0	19.44	19.41	19.45	20.4
20	QPSK	50	28	19.38	19.54	19.48	20.4
20	QPSK	50	56	19.39	19.43	19.31	20.4
20	QPSK	100	0	19.46	19.47	19.33	
20	16QAM	1	1	19.46	19.50	19.49	20.4
20	64QAM	1	1	19.45	19.55	19.49	20.4
20	256QAM	1	1	19.59	19.61	19.62	20.4
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	19.61	19.69	19.59	20.4
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	19.66	19.62	19.65	20.4
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	19.63	19.60	19.61	20.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	21.19	21.20	21.12	
20	PI/2 BPSK	1	53	21.02	21.10	21.04	21.2
20	PI/2 BPSK	1	104	20.95	21.04	20.98	
20	PI/2 BPSK	50	0	20.98	21.07	21.00	21.2
20	PI/2 BPSK	50	28	21.13	21.13	21.07	21.2
20	PI/2 BPSK	50	56	20.99	21.04	21.01	21.2
20	PI/2 BPSK	100	0	21.13	21.14	21.05	
20	QPSK	1	1	20.99	21.06	20.96	21.2
20	QPSK	1	53	20.98	21.05	21.01	
20	QPSK	1	104	20.93	20.94	20.90	
20	QPSK	50	0	20.96	21.01	20.95	21.2
20	QPSK	50	28	20.97	21.05	21.00	21.2
20	QPSK	50	56	20.95	21.01	20.91	21.2
20	QPSK	100	0	20.96	21.00	20.92	
20	16QAM	1	1	21.02	21.09	21.03	21.2
20	64QAM	1	1	21.02	21.05	21.02	21.2
20	256QAM	1	1	19.80	19.81	19.75	20.5
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	21.15	21.15	21.09	21.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	21.19	21.19	21.11	21.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	21.11	21.15	21.06	21.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	25.2
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.38	24.35	24.27	
40	PI/2 BPSK	1	108	24.37	24.34	24.34	24.7
40	PI/2 BPSK	1	214	24.31	24.08	24.19	
40	PI/2 BPSK	108	0	24.05	23.84	23.91	
40	PI/2 BPSK	108	54	24.57	24.32	24.38	25.2
40	PI/2 BPSK	108	108	23.98	23.74	23.87	24.7
40	PI/2 BPSK	216	0	24.00	23.76	23.86	
40	QPSK	1	1	24.41	24.30	24.37	
40	QPSK	1	108	24.63	24.58	24.53	25.2
40	QPSK	1	214	24.33	24.26	24.33	
40	QPSK	108	0	23.57	23.48	23.53	
40	QPSK	108	54	24.60	24.47	24.52	24.2
40	QPSK	108	108	23.47	23.38	23.49	25.2
40	QPSK	216	0	23.48	23.37	23.47	
40	16QAM	1	1	23.52	23.53	23.45	
40	64QAM	1	1	22.01	21.93	22.01	24.2
40	256QAM	1	1	19.99	19.95	19.99	22.7
Channel				345000	349000	353000	20.7
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.35	24.34	24.17	
Channel				344500	349000	353500	25.2
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.32	24.30	24.24	
Channel				344000	349000	354000	25.2
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.32	24.28	24.24	
Channel				343500	349000	354500	25.2
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.36	24.32	24.25	
Channel				343000	349000	355000	25.2
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.34	24.29	24.20	
Channel				342500	349000	355500	25.2
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.31	24.28	24.26	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	22.7
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.34	22.26	22.27	
40	PI/2 BPSK	1	108	22.35	22.31	22.34	22.7
40	PI/2 BPSK	1	214	22.31	21.98	22.18	
40	PI/2 BPSK	108	0	22.02	21.77	21.88	
40	PI/2 BPSK	108	54	22.52	22.25	22.30	22.7
40	PI/2 BPSK	108	108	21.90	21.65	21.82	22.7
40	PI/2 BPSK	216	0	21.97	21.74	21.82	
40	QPSK	1	1	22.37	22.27	22.35	
40	QPSK	1	108	22.62	22.50	22.49	22.7
40	QPSK	1	214	22.27	22.22	22.31	
40	QPSK	108	0	21.51	21.47	21.49	
40	QPSK	108	54	22.53	22.43	22.42	22.7
40	QPSK	108	108	22.42	22.35	22.40	22.7
40	QPSK	216	0	22.42	22.27	22.41	
40	16QAM	1	1	22.43	22.45	22.45	
40	64QAM	1	1	21.96	21.83	21.98	22.7
40	256QAM	1	1	19.89	19.93	19.90	20.7
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	22.37	22.31	22.17	
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	22.35	22.31	22.22	
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	22.30	22.35	22.24	
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.32	22.34	22.24	
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	22.36	22.27	22.22	
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	22.30	22.34	22.25	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	25.39	25.56	25.54	
40	PI/2 BPSK	1	108	25.38	25.45	25.53	25.7
40	PI/2 BPSK	1	214	25.38	25.25	25.40	
40	PI/2 BPSK	108	0	25.00	25.04	25.10	
40	PI/2 BPSK	108	54	25.54	25.55	25.52	25.2
40	PI/2 BPSK	108	108	25.04	24.91	25.09	25.2
40	PI/2 BPSK	216	0	25.03	25.10	25.09	
40	QPSK	1	1	25.13	25.46	25.26	
40	QPSK	1	108	25.15	25.38	24.97	25.7
40	QPSK	1	214	25.12	25.37	25.08	
40	QPSK	108	0	24.30	24.67	24.43	
40	QPSK	108	54	25.23	25.41	25.02	24.7
40	QPSK	108	108	24.50	24.53	24.39	24.7
40	QPSK	216	0	24.39	24.59	24.40	
40	16QAM	1	1	24.31	24.64	24.60	
40	64QAM	1	1	23.12	23.15	23.18	23.2
40	256QAM	1	1	20.93	21.00	21.18	21.2
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	25.39	25.42	25.41	
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	25.44	25.46	25.42	
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	25.32	25.33	25.30	
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	25.39	25.44	25.42	
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	25.42	25.45	25.42	
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	25.44	25.42	24.39	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	23.7
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.28	23.40	23.31	
40	PI/2 BPSK	1	108	23.28	23.33	23.33	23.7
40	PI/2 BPSK	1	214	23.16	23.12	23.20	
40	PI/2 BPSK	108	0	23.32	23.35	23.22	
40	PI/2 BPSK	108	54	23.33	23.36	23.23	23.7
40	PI/2 BPSK	108	108	23.17	23.12	23.12	23.7
40	PI/2 BPSK	216	0	23.17	23.23	23.14	
40	QPSK	1	1	23.19	23.28	23.33	
40	QPSK	1	108	23.28	23.33	23.30	23.7
40	QPSK	1	214	23.20	23.19	23.23	
40	QPSK	108	0	23.23	23.35	23.29	
40	QPSK	108	54	23.33	23.32	23.34	23.7
40	QPSK	108	108	23.10	23.24	23.11	23.7
40	QPSK	216	0	23.19	23.24	23.21	
40	16QAM	1	1	23.36	23.35	23.32	
40	64QAM	1	1	23.03	23.02	23.04	23.2
40	256QAM	1	1	20.76	20.77	20.78	21.2
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.29	23.35	23.32	
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.30	23.39	23.31	
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.22	23.31	23.33	
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.25	23.30	23.28	
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.33	23.30	23.29	
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.31	23.35	23.31	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.80	23.90	23.89	
40	PI/2 BPSK	1	108	23.78	23.89	23.83	24.5
40	PI/2 BPSK	1	214	23.69	23.70	23.71	
40	PI/2 BPSK	108	0	23.87	23.88	23.74	
40	PI/2 BPSK	108	54	23.86	23.89	23.75	24.5
40	PI/2 BPSK	108	108	23.70	23.71	23.67	24.5
40	PI/2 BPSK	216	0	23.77	23.80	23.70	
40	QPSK	1	1	23.79	23.86	23.88	
40	QPSK	1	108	23.86	23.89	23.80	24.5
40	QPSK	1	214	23.76	23.73	23.74	
40	QPSK	108	0	23.79	23.85	23.83	
40	QPSK	108	54	23.83	23.87	23.84	24.5
40	QPSK	108	108	23.69	23.74	23.67	24.5
40	QPSK	216	0	23.75	23.78	23.71	
40	16QAM	1	1	23.87	23.86	23.85	
40	64QAM	1	1	23.13	23.11	23.13	23.2
40	256QAM	1	1	20.79	20.81	20.80	21.2
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.76	23.87	23.89	
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.77	23.88	23.86	
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.70	23.86	23.85	
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.71	23.81	23.84	
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.70	23.81	23.83	
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.80	23.84	23.88	



<FR1 n77_Ant 1_Index 2> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	19.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.21	18.23	18.17	
100	PI/2 BPSK	1	137	17.80	17.85	17.85	19.2
100	PI/2 BPSK	1	271	17.52	17.58	17.50	
100	PI/2 BPSK	135	0	17.89	17.89	17.89	
100	PI/2 BPSK	135	69	17.82	17.90	17.88	19.2
100	PI/2 BPSK	135	138	17.52	17.59	17.56	19.2
100	PI/2 BPSK	270	0	17.92	17.93	17.92	
100	QPSK	1	1	18.13	18.21	18.21	
100	QPSK	1	137	17.85	17.83	17.80	19.2
100	QPSK	1	271	17.50	17.55	17.52	
100	QPSK	135	0	17.85	17.85	17.83	
100	QPSK	135	69	17.85	17.83	17.79	19.2
100	QPSK	135	138	17.52	17.56	17.49	
100	QPSK	270	0	17.91	17.92	17.88	
100	16QAM	1	1	18.18	18.22	18.22	19.2
100	64QAM	1	1	18.18	18.19	18.13	19.2
100	256QAM	1	1	18.11	18.15	18.14	19.2
Channel				649668	656000	662332	19.2
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.06	18.08	18.03	
Channel				649334	656000	662666	19.2
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.00	18.06	18.05	
Channel				649000	656000	663000	19.2
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.03	18.06	18.00	
Channel				648668	656000	663332	19.2
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.01	18.13	18.10	
Channel				648334	656000	663666	19.2
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.04	18.09	18.01	
Channel				648000	656000	664000	19.2
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.10	18.10	18.09	
Channel				647668	656000	664332	19.2
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.08	18.05	18.07	
Channel				647500	656000	664500	19.2
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.02	18.12	18.09	
Channel				647334	656000	664666	19.2
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.08	18.09	18.08	
Channel				647168	656000	664832	19.2
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.04	18.08	18.09	
Channel				647000	656000	665000	19.2
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.00	18.14	18.10	



<FR1 n77_Ant 1_Index 2> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.22		19.2
100	PI/2 BPSK	1	137		18.08		
100	PI/2 BPSK	1	271		17.92		
100	PI/2 BPSK	135	0		18.00		19.2
100	PI/2 BPSK	135	69		18.05		19.2
100	PI/2 BPSK	135	138		17.89		19.2
100	PI/2 BPSK	270	0		18.05		
100	QPSK	1	1		18.17		19.2
100	QPSK	1	137		18.08		
100	QPSK	1	271		17.92		
100	QPSK	135	0		17.99		19.2
100	QPSK	135	69		18.04		
100	QPSK	135	138		17.83		
100	QPSK	270	0		18.00		19.2
100	16QAM	1	1		18.20		19.2
100	64QAM	1	1		18.16		19.2
100	256QAM	1	1		18.16		19.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.08	18.12	18.06	19.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.09	18.05	18.03	19.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.07	18.12	18.05	19.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.10	18.07	18.00	19.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.02	18.14	18.04	19.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.04	18.07	18.02	19.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.04	18.11	18.06	19.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.06	18.07	18.01	19.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.09	18.05	18.06	19.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.10	18.08	18.07	19.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.06	18.08	18.10	19.2



<FR1 n77_Ant 1_Index 3> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	18.4
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.21	18.23	18.17	
100	PI/2 BPSK	1	137	17.80	17.85	17.85	18.4
100	PI/2 BPSK	1	271	17.52	17.58	17.50	
100	PI/2 BPSK	135	0	17.89	17.89	17.89	
100	PI/2 BPSK	135	69	17.82	17.90	17.88	18.4
100	PI/2 BPSK	135	138	17.52	17.59	17.56	18.4
100	PI/2 BPSK	270	0	17.92	17.93	17.92	
100	QPSK	1	1	18.13	18.21	18.21	
100	QPSK	1	137	17.85	17.83	17.80	18.4
100	QPSK	1	271	17.50	17.55	17.52	
100	QPSK	135	0	17.85	17.85	17.83	
100	QPSK	135	69	17.85	17.83	17.79	18.4
100	QPSK	135	138	17.52	17.56	17.49	
100	QPSK	270	0	17.91	17.92	17.88	
100	16QAM	1	1	18.18	18.22	18.22	18.4
100	64QAM	1	1	18.18	18.19	18.13	18.4
100	256QAM	1	1	18.11	18.15	18.14	18.4
Channel				649668	656000	662332	18.4
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.06	18.08	18.03	
Channel				649334	656000	662666	18.4
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.00	18.06	18.05	
Channel				649000	656000	663000	18.4
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.03	18.06	18.00	
Channel				648668	656000	663332	18.4
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.01	18.13	18.10	
Channel				648334	656000	663666	18.4
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.04	18.09	18.01	
Channel				648000	656000	664000	18.4
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.10	18.10	18.09	
Channel				647668	656000	664332	18.4
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.08	18.05	18.07	
Channel				647500	656000	664500	18.4
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.02	18.12	18.09	
Channel				647334	656000	664666	18.4
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.08	18.09	18.08	
Channel				647168	656000	664832	18.4
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.04	18.08	18.09	
Channel				647000	656000	665000	18.4
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.00	18.14	18.10	



<FR1 n77_Ant 1_Index 3> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.22		18.4
100	PI/2 BPSK	1	137		18.08		
100	PI/2 BPSK	1	271		17.92		
100	PI/2 BPSK	135	0		18.00		18.4
100	PI/2 BPSK	135	69		18.05		18.4
100	PI/2 BPSK	135	138		17.89		18.4
100	PI/2 BPSK	270	0		18.05		
100	QPSK	1	1		18.17		18.4
100	QPSK	1	137		18.08		
100	QPSK	1	271		17.92		
100	QPSK	135	0		17.99		18.4
100	QPSK	135	69		18.04		
100	QPSK	135	138		17.83		
100	QPSK	270	0		18.00		18.4
100	16QAM	1	1		18.20		18.4
100	64QAM	1	1		18.16		18.4
100	256QAM	1	1		18.16		18.4
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.08	18.12	18.06	18.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.09	18.05	18.03	18.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.07	18.12	18.05	18.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.10	18.07	18.00	18.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.02	18.14	18.04	18.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.04	18.07	18.02	18.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.04	18.11	18.06	18.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.06	18.07	18.01	18.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.09	18.05	18.06	18.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.10	18.08	18.07	18.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.06	18.08	18.10	18.4



<FR1 n77_Ant 1_Index 4> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	24.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.12	23.15	23.12	
100	PI/2 BPSK	1	137	23.08	23.11	23.10	24.3
100	PI/2 BPSK	1	271	23.12	23.12	23.06	
100	PI/2 BPSK	135	0	23.01	23.00	23.00	
100	PI/2 BPSK	135	69	23.00	23.02	23.01	24.3
100	PI/2 BPSK	135	138	23.03	23.03	23.01	24.3
100	PI/2 BPSK	270	0	23.00	23.03	23.02	
100	QPSK	1	1	23.09	23.13	23.14	
100	QPSK	1	137	23.09	23.08	23.04	24.3
100	QPSK	1	271	23.07	23.12	23.12	
100	QPSK	135	0	23.11	23.13	23.12	
100	QPSK	135	69	23.06	23.03	23.01	24.3
100	QPSK	135	138	23.02	23.03	23.00	
100	QPSK	270	0	23.02	23.03	23.04	
100	16QAM	1	1	23.10	23.12	23.13	24.0
100	64QAM	1	1	22.42	22.40	22.35	22.5
100	256QAM	1	1	20.39	20.40	20.39	20.5
Channel				649668	656000	662332	24.3
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.02	23.05	23.02	
Channel				649334	656000	662666	24.3
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.06	23.05	23.03	
Channel				649000	656000	663000	24.3
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.05	23.09	23.00	
Channel				648668	656000	663332	24.3
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.00	23.00	23.08	
Channel				648334	656000	663666	24.3
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.07	23.07	23.02	
Channel				648000	656000	664000	24.3
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.08	23.03	23.01	
Channel				647668	656000	664332	24.3
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.01	23.03	23.04	
Channel				647500	656000	664500	24.3
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.01	23.06	23.07	
Channel				647334	656000	664666	24.3
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.04	23.08	23.08	
Channel				647168	656000	664832	24.3
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.10	23.07	23.09	
Channel				647000	656000	665000	24.3
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.09	23.01	23.10	



<FR1 n77_Ant 1_Index 4> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.11		24.3
100	PI/2 BPSK	1	137		23.01		
100	PI/2 BPSK	1	271		23.03		
100	PI/2 BPSK	135	0		23.01		24.3
100	PI/2 BPSK	135	69		23.04		24.3
100	PI/2 BPSK	135	138		23.02		24.3
100	PI/2 BPSK	270	0		23.03		
100	QPSK	1	1		23.10		24.3
100	QPSK	1	137		23.03		
100	QPSK	1	271		23.01		
100	QPSK	135	0		23.03		24.3
100	QPSK	135	69		23.00		
100	QPSK	135	138		23.02		
100	QPSK	270	0		23.04		24.0
100	16QAM	1	1		23.03		24.0
100	64QAM	1	1		22.44		22.5
100	256QAM	1	1		20.43		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.01	23.06	23.02	24.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.02	23.07	23.05	24.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.01	23.10	23.06	24.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.01	23.00	23.10	24.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.02	23.06	23.09	24.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.08	23.07	23.06	24.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.08	23.04	23.00	24.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.00	23.04	23.04	24.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.01	23.03	23.08	24.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.04	23.04	23.08	24.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.05	23.05	23.08	24.3



<FR1 n77_Ant 1_Index 5/6> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	25.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.12	23.15	23.12	
100	PI/2 BPSK	1	137	23.08	23.11	23.10	24.5
100	PI/2 BPSK	1	271	23.12	23.12	23.06	
100	PI/2 BPSK	135	0	23.01	23.00	23.00	
100	PI/2 BPSK	135	69	23.00	23.02	23.01	24.5
100	PI/2 BPSK	135	138	23.03	23.03	23.01	
100	PI/2 BPSK	270	0	23.00	23.03	23.02	
100	QPSK	1	1	23.09	23.13	23.14	25.0
100	QPSK	1	137	23.09	23.08	23.04	
100	QPSK	1	271	23.07	23.12	23.12	
100	QPSK	135	0	23.11	23.13	23.12	25.0
100	QPSK	135	69	23.06	23.03	23.01	
100	QPSK	135	138	23.02	23.03	23.00	
100	QPSK	270	0	23.02	23.03	23.04	24.0
100	16QAM	1	1	23.10	23.12	23.13	24.0
100	64QAM	1	1	22.42	22.40	22.35	22.5
100	256QAM	1	1	20.39	20.40	20.39	20.5
Channel				649668	656000	662332	25.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.02	23.05	23.02	
Channel				649334	656000	662666	25.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.06	23.05	23.03	
Channel				649000	656000	663000	25.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.05	23.09	23.00	
Channel				648668	656000	663332	25.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.00	23.00	23.08	
Channel				648334	656000	663666	25.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.07	23.07	23.02	
Channel				648000	656000	664000	25.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.08	23.03	23.01	
Channel				647668	656000	664332	25.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.01	23.03	23.04	
Channel				647500	656000	664500	25.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.01	23.06	23.07	
Channel				647334	656000	664666	25.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.04	23.08	23.08	
Channel				647168	656000	664832	25.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.10	23.07	23.09	
Channel				647000	656000	665000	25.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.09	23.01	23.10	



<FR1 n77_Ant 1_Index 5/6> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.11		25.0
100	PI/2 BPSK	1	137		23.01		
100	PI/2 BPSK	1	271		23.03		
100	PI/2 BPSK	135	0		23.01		24.5
100	PI/2 BPSK	135	69		23.04		25.0
100	PI/2 BPSK	135	138		23.02		24.5
100	PI/2 BPSK	270	0		23.03		
100	QPSK	1	1		23.10		25.0
100	QPSK	1	137		23.03		
100	QPSK	1	271		23.01		
100	QPSK	135	0		23.03		25.0
100	QPSK	135	69		23.00		
100	QPSK	135	138		23.02		
100	QPSK	270	0		23.04		24.0
100	16QAM	1	1		23.03		24.0
100	64QAM	1	1		22.44		22.5
100	256QAM	1	1		20.43		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.01	23.06	23.02	25.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.02	23.07	23.05	25.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.01	23.10	23.06	25.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.01	23.00	23.10	25.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.02	23.06	23.09	25.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.08	23.07	23.06	25.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.08	23.04	23.00	25.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.00	23.04	23.04	25.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.01	23.03	23.08	25.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.04	23.04	23.08	25.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.05	23.05	23.08	25.0



<FR1 n77_Ant 5_Index 2> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	16.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	15.26	15.27	15.26	
100	PI/2 BPSK	1	137	15.02	15.11	15.09	16.5
100	PI/2 BPSK	1	271	15.09	15.09	15.01	
100	PI/2 BPSK	135	0	14.86	14.91	14.82	
100	PI/2 BPSK	135	69	14.90	14.95	14.94	16.5
100	PI/2 BPSK	135	138	14.79	14.81	14.81	16.5
100	PI/2 BPSK	270	0	14.93	15.00	15.00	
100	QPSK	1	1	15.17	15.20	15.20	
100	QPSK	1	137	15.01	15.11	15.01	16.5
100	QPSK	1	271	15.05	15.10	15.02	
100	QPSK	135	0	14.92	14.92	14.85	
100	QPSK	135	69	14.89	14.90	14.81	16.5
100	QPSK	135	138	14.71	14.80	14.78	
100	QPSK	270	0	15.00	15.01	14.91	
100	16QAM	1	1	15.22	15.22	15.19	16.5
100	64QAM	1	1	15.21	15.26	15.24	16.5
100	256QAM	1	1	15.13	15.22	15.21	16.5
Channel				649668	656000	662332	16.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	15.26	15.19	15.19	
Channel				649334	656000	662666	16.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	15.21	15.26	15.23	
Channel				649000	656000	663000	16.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	15.20	15.18	15.24	
Channel				648668	656000	663332	16.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	15.17	15.26	15.18	
Channel				648334	656000	663666	16.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	15.23	15.17	15.18	
Channel				648000	656000	664000	16.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	15.26	15.23	15.21	
Channel				647668	656000	664332	16.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	15.21	15.26	15.18	
Channel				647500	656000	664500	16.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	15.26	15.19	15.22	
Channel				647334	656000	664666	16.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	15.19	15.21	15.26	
Channel				647168	656000	664832	16.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	15.23	15.18	15.18	
Channel				647000	656000	665000	16.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	15.25	15.17	15.22	



<FR1 n77_Ant 5_Index 2> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		15.33		
100	PI/2 BPSK	1	137		15.03		16.5
100	PI/2 BPSK	1	271		15.03		
100	PI/2 BPSK	135	0		14.93		
100	PI/2 BPSK	135	69		14.96		16.5
100	PI/2 BPSK	135	138		14.92		16.5
100	PI/2 BPSK	270	0		14.97		
100	QPSK	1	1		15.27		
100	QPSK	1	137		14.98		16.5
100	QPSK	1	271		15.05		
100	QPSK	135	0		14.89		
100	QPSK	135	69		14.92		16.5
100	QPSK	135	138		14.92		
100	QPSK	270	0		14.97		
100	16QAM	1	1		15.32		16.5
100	64QAM	1	1		15.25		16.5
100	256QAM	1	1		15.23		16.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.27	15.18	15.22	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.26	15.21	15.18	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.19	15.21	15.21	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.26	15.20	15.21	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.21	15.26	15.20	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.22	15.25	15.21	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.22	15.24	15.25	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.27	15.20	15.23	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.25	15.19	15.18	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.18	15.24	15.26	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.22	15.21	15.19	



<FR1 n77_Ant 5_Index 3> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	12.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	12.23	12.25	12.24	
100	PI/2 BPSK	1	137	11.99	12.03	12.01	12.3
100	PI/2 BPSK	1	271	12.04	11.99	11.98	
100	PI/2 BPSK	135	0	11.84	11.87	11.73	
100	PI/2 BPSK	135	69	11.88	11.90	11.94	12.3
100	PI/2 BPSK	135	138	11.77	11.80	11.74	12.3
100	PI/2 BPSK	270	0	11.92	11.95	11.93	
100	QPSK	1	1	12.10	12.14	12.14	
100	QPSK	1	137	11.95	12.09	11.96	12.3
100	QPSK	1	271	12.05	12.00	11.93	
100	QPSK	135	0	11.90	11.85	11.84	
100	QPSK	135	69	11.80	11.85	11.75	12.3
100	QPSK	135	138	11.63	11.73	11.68	
100	QPSK	270	0	11.90	11.94	11.88	
100	16QAM	1	1	12.17	12.18	12.14	12.3
100	64QAM	1	1	12.11	12.17	12.17	12.3
100	256QAM	1	1	12.10	12.18	12.16	12.3
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	12.19	12.16	12.15	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	12.19	12.21	12.23	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	12.11	12.17	12.21	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	12.15	12.17	12.16	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	12.24	12.16	12.22	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	12.22	12.10	12.18	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	12.17	12.16	12.14	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	12.20	12.22	12.09	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	12.13	12.12	12.18	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	12.17	12.18	12.13	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	12.19	12.17	12.23	



<FR1 n77_Ant 5_Index 3> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		12.26		12.3
100	PI/2 BPSK	1	137		11.94		
100	PI/2 BPSK	1	271		12.05		
100	PI/2 BPSK	135	0		11.78		12.3
100	PI/2 BPSK	135	69		11.87		12.3
100	PI/2 BPSK	135	138		11.70		12.3
100	PI/2 BPSK	270	0		11.90		
100	QPSK	1	1		12.10		12.3
100	QPSK	1	137		11.99		
100	QPSK	1	271		12.04		
100	QPSK	135	0		11.91		12.3
100	QPSK	135	69		11.87		
100	QPSK	135	138		11.71		
100	QPSK	270	0		11.99		12.3
100	16QAM	1	1		12.21		12.3
100	64QAM	1	1		12.13		12.3
100	256QAM	1	1		12.12		12.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	12.25	12.09	12.10	12.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	12.19	12.20	12.15	12.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	12.15	12.15	12.20	12.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	12.10	12.24	12.16	12.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	12.20	12.17	12.11	12.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	12.17	12.17	12.21	12.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	12.19	12.18	12.12	12.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	12.26	12.10	12.21	12.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	12.18	12.14	12.18	12.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	12.23	12.09	12.08	12.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	12.20	12.10	12.13	12.3



<FR1 n77_Ant 5_Index 4> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	19.7
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.12	19.16	19.10	
100	PI/2 BPSK	1	137	19.02	19.06	19.06	19.7
100	PI/2 BPSK	1	271	18.98	18.95	19.03	
100	PI/2 BPSK	135	0	18.71	18.84	18.74	
100	PI/2 BPSK	135	69	18.79	18.86	18.75	19.7
100	PI/2 BPSK	135	138	18.78	18.73	18.72	19.7
100	PI/2 BPSK	270	0	18.93	18.99	18.97	
100	QPSK	1	1	19.10	19.16	19.16	
100	QPSK	1	137	19.00	19.06	19.00	19.7
100	QPSK	1	271	18.91	18.97	18.87	
100	QPSK	135	0	18.67	18.80	18.75	
100	QPSK	135	69	18.71	18.78	18.73	19.7
100	QPSK	135	138	18.77	18.81	18.71	
100	QPSK	270	0	18.93	18.88	18.97	
100	16QAM	1	1	18.99	19.10	19.00	19.7
100	64QAM	1	1	19.09	19.07	19.10	19.7
100	256QAM	1	1	19.05	19.10	19.15	19.7
Channel				649668	656000	662332	19.7
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.03	19.14	19.10	
Channel				649334	656000	662666	19.7
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.11	19.11	19.08	
Channel				649000	656000	663000	19.7
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.01	19.09	19.12	
Channel				648668	656000	663332	19.7
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.06	19.13	19.15	
Channel				648334	656000	663666	19.7
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.05	19.13	19.15	
Channel				648000	656000	664000	19.7
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.07	19.15	19.16	
Channel				647668	656000	664332	19.7
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.07	19.09	19.09	
Channel				647500	656000	664500	19.7
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.08	19.10	19.07	
Channel				647334	656000	664666	19.7
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.03	19.11	19.15	
Channel				647168	656000	664832	19.7
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.04	19.14	19.12	
Channel				647000	656000	665000	19.7
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.07	19.09	19.12	



<FR1 n77_Ant 5_Index 4> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.16		19.7
100	PI/2 BPSK	1	137		19.11		
100	PI/2 BPSK	1	271		18.95		
100	PI/2 BPSK	135	0		18.80		19.7
100	PI/2 BPSK	135	69		18.81		19.7
100	PI/2 BPSK	135	138		18.71		19.7
100	PI/2 BPSK	270	0		18.83		
100	QPSK	1	1		19.15		19.7
100	QPSK	1	137		19.07		
100	QPSK	1	271		18.89		
100	QPSK	135	0		18.78		19.7
100	QPSK	135	69		18.83		
100	QPSK	135	138		18.81		
100	QPSK	270	0		18.78		19.7
100	16QAM	1	1		19.15		19.7
100	64QAM	1	1		19.15		19.7
100	256QAM	1	1		19.14		19.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.12	19.10	19.08	19.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.13	19.11	19.09	19.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.13	19.13	19.12	19.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.06	19.12	19.08	19.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.10	19.14	19.10	19.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.14	19.12	19.06	19.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.07	19.15	19.07	19.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.06	19.10	19.12	19.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.07	19.16	19.10	19.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.11	19.14	19.10	19.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.15	19.13	19.04	19.7



<FR1 n77_Ant 5_Index 5> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	24.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.14	22.18	22.07	
100	PI/2 BPSK	1	137	22.13	22.11	22.06	24.0
100	PI/2 BPSK	1	271	22.06	22.12	22.06	
100	PI/2 BPSK	135	0	22.05	22.03	22.02	
100	PI/2 BPSK	135	69	22.08	22.05	22.04	24.0
100	PI/2 BPSK	135	138	22.05	22.03	22.02	24.0
100	PI/2 BPSK	270	0	22.02	22.03	22.05	
100	QPSK	1	1	22.10	22.12	22.14	
100	QPSK	1	137	22.11	22.09	22.10	24.0
100	QPSK	1	271	22.03	22.10	22.09	
100	QPSK	135	0	22.03	22.03	22.03	
100	QPSK	135	69	22.01	22.07	22.09	24.0
100	QPSK	135	138	22.03	22.04	22.03	
100	QPSK	270	0	22.06	22.04	22.03	
100	16QAM	1	1	22.12	22.12	22.13	24.0
100	64QAM	1	1	22.11	22.17	22.12	22.5
100	256QAM	1	1	20.33	20.36	20.31	20.5
Channel				649668	656000	662332	24.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.06	22.03	22.06	
Channel				649334	656000	662666	24.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.13	22.06	22.06	
Channel				649000	656000	663000	24.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.14	22.10	22.01	
Channel				648668	656000	663332	24.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.12	22.09	22.01	
Channel				648334	656000	663666	24.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.12	22.10	22.06	
Channel				648000	656000	664000	24.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.13	22.04	22.04	
Channel				647668	656000	664332	24.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.05	22.06	22.05	
Channel				647500	656000	664500	24.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.11	22.03	22.08	
Channel				647334	656000	664666	24.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.10	22.04	22.03	
Channel				647168	656000	664832	24.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.04	22.09	22.07	
Channel				647000	656000	665000	24.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.10	22.09	22.05	



<FR1 n77_Ant 5_Index 5> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.16		24.0
100	PI/2 BPSK	1	137		22.11		
100	PI/2 BPSK	1	271		22.06		
100	PI/2 BPSK	135	0		22.03		24.0
100	PI/2 BPSK	135	69		22.03		24.0
100	PI/2 BPSK	135	138		22.02		24.0
100	PI/2 BPSK	270	0		22.03		
100	QPSK	1	1		22.13		24.0
100	QPSK	1	137		22.05		
100	QPSK	1	271		22.01		
100	QPSK	135	0		22.03		24.0
100	QPSK	135	69		22.04		
100	QPSK	135	138		22.03		
100	QPSK	270	0		22.00		24.0
100	16QAM	1	1		22.11		24.0
100	64QAM	1	1		22.11		22.5
100	256QAM	1	1		20.40		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.04	22.03	22.10	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.10	22.11	22.03	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.07	22.09	22.04	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.09	22.07	22.06	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.03	22.06	22.08	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.09	22.10	22.03	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.05	22.03	22.02	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.00	22.05	22.07	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.10	22.08	22.05	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.08	22.03	22.02	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.00	22.07	22.08	24.0



<FR1 n77_Ant 5_Index 6> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	21.6
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.13	21.15	21.04	
100	PI/2 BPSK	1	137	21.07	21.10	21.01	21.6
100	PI/2 BPSK	1	271	21.00	21.02	21.06	
100	PI/2 BPSK	135	0	20.95	20.98	21.01	
100	PI/2 BPSK	135	69	21.05	21.06	21.02	21.6
100	PI/2 BPSK	135	138	21.04	20.94	20.98	21.6
100	PI/2 BPSK	270	0	20.93	20.98	20.97	
100	QPSK	1	1	21.08	21.12	21.13	
100	QPSK	1	137	21.04	21.01	21.02	21.6
100	QPSK	1	271	21.03	21.06	21.05	
100	QPSK	135	0	21.03	21.01	20.99	
100	QPSK	135	69	20.98	20.97	20.99	21.6
100	QPSK	135	138	20.96	20.96	20.93	
100	QPSK	270	0	21.01	20.98	20.97	
100	16QAM	1	1	21.02	21.04	21.05	21.6
100	64QAM	1	1	21.11	21.09	21.09	21.6
100	256QAM	1	1	20.23	20.36	20.30	20.5
Channel				649668	656000	662332	21.6
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.10	21.14	20.97	
Channel				649334	656000	662666	21.6
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.06	21.13	20.99	
Channel				649000	656000	663000	21.6
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.08	21.09	21.01	
Channel				648668	656000	663332	21.6
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.12	21.11	21.03	
Channel				648334	656000	663666	21.6
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.08	21.10	21.00	
Channel				648000	656000	664000	21.6
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.05	21.10	20.98	
Channel				647668	656000	664332	21.6
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.06	21.09	21.04	
Channel				647500	656000	664500	21.6
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.05	21.14	21.00	
Channel				647334	656000	664666	21.6
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.04	21.08	21.05	
Channel				647168	656000	664832	21.6
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.10	21.14	21.01	
Channel				647000	656000	665000	21.6
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.05	21.11	21.04	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.11		21.6
100	PI/2 BPSK	1	137		21.06		
100	PI/2 BPSK	1	271		21.04		
100	PI/2 BPSK	135	0		20.95		21.6
100	PI/2 BPSK	135	69		20.98		21.6
100	PI/2 BPSK	135	138		20.97		21.6
100	PI/2 BPSK	270	0		20.99		
100	QPSK	1	1		21.05		21.6
100	QPSK	1	137		21.03		
100	QPSK	1	271		20.93		
100	QPSK	135	0		21.00		21.6
100	QPSK	135	69		20.97		
100	QPSK	135	138		20.98		
100	QPSK	270	0		20.96		21.6
100	16QAM	1	1		21.10		21.6
100	64QAM	1	1		21.08		21.6
100	256QAM	1	1		20.32		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.06	21.10	21.00	21.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.05	21.10	21.07	21.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.08	21.01	21.02	21.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.10	21.06	21.07	21.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.06	21.05	21.02	21.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.06	21.08	21.07	21.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.07	21.07	21.05	21.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.10	21.05	21.01	21.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.08	21.02	20.98	21.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.09	21.03	21.05	21.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.06	21.10	21.03	21.6