



Ant 0								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	33.50	824.2	836.4	848.8	24.50
GSM 1 Tx slot	32.15	32.20	31.85	33.50	23.15	23.20	22.85	24.50
GPRS 1 Tx slot	32.18	32.22	31.86	33.50	23.18	23.22	22.86	24.50
GPRS 2 Tx slots	31.14	31.12	30.80	32.50	25.14	25.12	24.80	26.50
GPRS 3 Tx slots	29.04	29.11	29.03	30.50	24.78	24.85	24.77	26.24
GPRS 4 Tx slots	27.77	28.00	27.60	29.50	24.77	25.00	24.60	26.50
EDGE 1 Tx slot	25.62	25.59	25.53	27.50	16.62	16.59	16.53	18.50
EDGE 2 Tx slots	25.56	25.55	25.30	27.00	19.56	19.55	19.30	21.00
EDGE 3 Tx slots	23.60	23.79	23.44	25.00	19.34	19.53	19.18	20.74
EDGE 4 Tx slots	21.76	21.80	21.52	23.00	18.76	18.80	18.52	20.00
Ant 2								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8	30.50	1850.2	1880	1909.8	21.50
GSM 1 Tx slot	29.16	29.31	29.70	30.50	20.16	20.31	20.70	21.50
GPRS 1 Tx slot	29.17	29.36	29.72	30.50	20.17	20.36	20.72	21.50
GPRS 2 Tx slots	28.51	29.00	28.72	29.70	22.51	23.00	22.72	23.70
GPRS 3 Tx slots	27.04	27.21	27.20	28.00	22.78	22.95	22.94	23.74
GPRS 4 Tx slots	26.17	26.00	26.37	27.00	23.17	23.00	23.37	24.00
EDGE 1 Tx slot	25.53	25.80	25.80	26.50	16.53	16.80	16.80	17.50
EDGE 2 Tx slots	24.91	25.30	25.21	26.00	18.91	19.30	19.21	20.00
EDGE 3 Tx slots	23.67	24.19	23.96	25.00	19.41	19.93	19.70	20.74
EDGE 4 Tx slots	22.96	23.31	23.20	24.00	19.96	20.31	20.20	21.00



Ant 1								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.47	31.31	31.04	32.20	22.47	22.31	22.04	23.20
GPRS 1 Tx slot	31.51	31.34	31.08	32.20	22.51	22.34	22.08	23.20
GPRS 2 Tx slots	30.46	30.22	30.20	31.20	24.46	24.22	24.20	25.20
GPRS 3 Tx slots	28.37	28.16	28.05	29.20	24.11	23.90	23.79	24.94
GPRS 4 Tx slots	27.31	27.07	27.01	28.20	24.31	24.07	24.01	25.20
EDGE 1 Tx slot	24.93	24.90	24.60	26.50	15.93	15.90	15.60	17.50
EDGE 2 Tx slots	24.64	24.70	24.50	26.00	18.64	18.70	18.50	20.00
EDGE 3 Tx slots	22.91	22.83	22.86	24.00	18.65	18.57	18.60	19.74
EDGE 4 Tx slots	21.01	21.10	20.74	22.00	18.01	18.10	17.74	19.00
Ant 0								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.00	29.20	29.39	30.20	20.00	20.20	20.39	21.20
GPRS 1 Tx slot	29.13	29.37	29.56	30.20	20.13	20.37	20.56	21.20
GPRS 2 Tx slots	28.50	28.78	28.68	29.70	22.50	22.78	22.68	23.70
GPRS 3 Tx slots	26.80	27.23	27.05	27.70	22.54	22.97	22.79	23.44
GPRS 4 Tx slots	25.51	25.84	25.63	26.70	22.51	22.84	22.63	23.70
EDGE 1 Tx slot	25.56	25.67	25.66	26.50	16.56	16.67	16.66	17.50
EDGE 2 Tx slots	24.74	24.95	25.06	26.00	18.74	18.95	19.06	20.00
EDGE 3 Tx slots	23.52	23.76	23.76	25.00	19.26	19.50	19.50	20.74
EDGE 4 Tx slots	22.59	22.89	22.55	24.00	19.59	19.89	19.55	21.00



Ant 0									
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
TX Channel	128	189	251		128	189	251		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	32.15	32.20	31.85	33.50	23.15	23.20	22.85	24.50	
GPRS 1 Tx slot	32.18	32.22	31.86	33.50	23.18	23.22	22.86	24.50	
GPRS 2 Tx slots	31.14	31.12	30.80	32.50	25.14	25.12	24.80	26.50	
GPRS 3 Tx slots	29.04	29.11	29.03	30.50	24.78	24.85	24.77	26.24	
GPRS 4 Tx slots	27.77	28.00	27.60	29.50	24.77	25.00	24.60	26.50	
EDGE 1 Tx slot	25.62	25.59	25.53	27.50	16.62	16.59	16.53	18.50	
EDGE 2 Tx slots	25.56	25.55	25.30	27.00	19.56	19.55	19.30	21.00	
EDGE 3 Tx slots	23.60	23.79	23.44	25.00	19.34	19.53	19.18	20.74	
EDGE 4 Tx slots	21.76	21.80	21.52	23.00	18.76	18.80	18.52	20.00	
Ant 2									
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		512	661	810		
TX Channel	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	29.16	29.31	29.70	30.50	20.16	20.31	20.70	21.50	
GPRS 1 Tx slot	29.17	29.36	29.72	30.50	20.17	20.36	20.72	21.50	
GPRS 2 Tx slots	28.51	29.00	28.72	29.70	22.51	23.00	22.72	23.70	
GPRS 3 Tx slots	27.04	27.21	27.20	28.00	22.78	22.95	22.94	23.74	
GPRS 4 Tx slots	26.17	26.00	26.37	27.00	23.17	23.00	23.37	24.00	
EDGE 1 Tx slot	25.53	25.80	25.80	26.50	16.53	16.80	16.80	17.50	
EDGE 2 Tx slots	24.91	25.30	25.21	26.00	18.91	19.30	19.21	20.00	
EDGE 3 Tx slots	23.67	24.19	23.96	25.00	19.41	19.93	19.70	20.74	
EDGE 4 Tx slots	22.96	23.31	23.20	24.00	19.96	20.31	20.20	21.00	



Ant 1								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.47	31.31	31.04	32.20	22.47	22.31	22.04	23.20
GPRS 1 Tx slot	31.51	31.34	31.08	32.20	22.51	22.34	22.08	23.20
GPRS 2 Tx slots	30.46	30.22	30.20	31.20	24.46	24.22	24.20	25.20
GPRS 3 Tx slots	28.37	28.16	28.05	29.20	24.11	23.90	23.79	24.94
GPRS 4 Tx slots	27.38	27.27	27.36	28.20	24.38	24.27	24.36	25.20
EDGE 1 Tx slot	24.93	24.90	24.60	26.50	15.93	15.90	15.60	17.50
EDGE 2 Tx slots	24.64	24.70	24.50	26.00	18.64	18.70	18.50	20.00
EDGE 3 Tx slots	22.91	22.83	22.86	24.00	18.65	18.57	18.60	19.74
EDGE 4 Tx slots	21.01	21.10	20.74	22.00	18.01	18.10	17.74	19.00
Ant 0								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.00	29.20	29.39	30.20	20.00	20.20	20.39	21.20
GPRS 1 Tx slot	29.13	29.37	29.56	30.20	20.13	20.37	20.56	21.20
GPRS 2 Tx slots	28.50	28.78	28.68	29.70	22.50	22.78	22.68	23.70
GPRS 3 Tx slots	26.80	27.23	27.05	27.70	22.54	22.97	22.79	23.44
GPRS 4 Tx slots	25.51	25.84	25.63	26.70	22.51	22.84	22.63	23.70
EDGE 1 Tx slot	25.56	25.67	25.66	26.50	16.56	16.67	16.66	17.50
EDGE 2 Tx slots	24.74	24.95	25.06	26.00	18.74	18.95	19.06	20.00
EDGE 3 Tx slots	23.52	23.76	23.76	25.00	19.26	19.50	19.50	20.74
EDGE 4 Tx slots	22.59	22.89	22.55	24.00	19.59	19.89	19.55	21.00



Ant 0								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.15	32.20	31.85	33.50	23.15	23.20	22.85	24.50
GPRS 1 Tx slot	32.18	32.22	31.86	33.50	23.18	23.22	22.86	24.50
GPRS 2 Tx slots	31.14	31.12	30.80	32.50	25.14	25.12	24.80	26.50
GPRS 3 Tx slots	29.04	29.11	29.03	30.50	24.78	24.85	24.77	26.24
GPRS 4 Tx slots	27.77	28.00	27.60	29.50	24.77	25.00	24.60	26.50
EDGE 1 Tx slot	25.62	25.59	25.53	27.50	16.62	16.59	16.53	18.50
EDGE 2 Tx slots	25.56	25.55	25.30	27.00	19.56	19.55	19.30	21.00
EDGE 3 Tx slots	23.60	23.79	23.44	25.00	19.34	19.53	19.18	20.74
EDGE 4 Tx slots	21.76	21.80	21.52	23.00	18.76	18.80	18.52	20.00
Ant 2								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.16	29.31	29.70	30.50	20.16	20.31	20.70	21.50
GPRS 1 Tx slot	29.17	29.36	29.72	30.50	20.17	20.36	20.72	21.50
GPRS 2 Tx slots	28.51	29.00	28.72	29.70	22.51	23.00	22.72	23.70
GPRS 3 Tx slots	27.04	27.21	27.20	28.00	22.78	22.95	22.94	23.74
GPRS 4 Tx slots	26.17	26.00	26.37	27.00	23.17	23.00	23.37	24.00
EDGE 1 Tx slot	25.53	25.80	25.80	26.50	16.53	16.80	16.80	17.50
EDGE 2 Tx slots	24.91	25.30	25.21	26.00	18.91	19.30	19.21	20.00
EDGE 3 Tx slots	23.67	24.19	23.96	25.00	19.41	19.93	19.70	20.74
EDGE 4 Tx slots	22.96	23.31	23.20	24.00	19.96	20.31	20.20	21.00



Ant 1								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.47	31.31	31.04	32.20	22.47	22.31	22.04	23.20
GPRS 1 Tx slot	31.51	31.34	31.08	32.20	22.51	22.34	22.08	23.20
GPRS 2 Tx slots	30.46	30.22	30.20	31.20	24.46	24.22	24.20	25.20
GPRS 3 Tx slots	28.37	28.16	28.05	29.20	24.11	23.90	23.79	24.94
GPRS 4 Tx slots	27.38	27.27	27.36	28.20	24.38	24.27	24.36	25.20
EDGE 1 Tx slot	24.93	24.90	24.60	26.50	15.93	15.90	15.60	17.50
EDGE 2 Tx slots	24.64	24.70	24.50	26.00	18.64	18.70	18.50	20.00
EDGE 3 Tx slots	22.91	22.83	22.86	24.00	18.65	18.57	18.60	19.74
EDGE 4 Tx slots	21.01	21.10	20.74	22.00	18.01	18.10	17.74	19.00
Ant 0								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.00	29.20	29.39	30.20	20.00	20.20	20.39	21.20
GPRS 1 Tx slot	29.13	29.37	29.56	30.20	20.13	20.37	20.56	21.20
GPRS 2 Tx slots	28.50	28.78	28.68	29.70	22.50	22.78	22.68	23.70
GPRS 3 Tx slots	26.80	27.23	27.05	27.70	22.54	22.97	22.79	23.44
GPRS 4 Tx slots	25.51	25.84	25.63	26.70	22.51	22.84	22.63	23.70
EDGE 1 Tx slot	25.56	25.67	25.66	26.50	16.56	16.67	16.66	17.50
EDGE 2 Tx slots	24.74	24.95	25.06	26.00	18.74	18.95	19.06	20.00
EDGE 3 Tx slots	23.52	23.76	23.76	25.00	19.26	19.50	19.50	20.74
EDGE 4 Tx slots	22.59	22.89	22.55	24.00	19.59	19.89	19.55	21.00



Ant 0								
GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.15	32.20	31.85	33.50	23.15	23.20	22.85	24.50
GPRS 1 Tx slot	32.18	32.22	31.86	33.50	23.18	23.22	22.86	24.50
GPRS 2 Tx slots	31.14	31.12	30.80	32.50	25.14	25.12	24.80	26.50
GPRS 3 Tx slots	29.04	29.11	29.03	30.50	24.78	24.85	24.77	26.24
GPRS 4 Tx slots	27.77	28.00	27.60	29.50	24.77	25.00	24.60	26.50
EDGE 1 Tx slot	25.62	25.59	25.53	27.50	16.62	16.59	16.53	18.50
EDGE 2 Tx slots	25.56	25.55	25.30	27.00	19.56	19.55	19.30	21.00
EDGE 3 Tx slots	23.60	23.79	23.44	25.00	19.34	19.53	19.18	20.74
EDGE 4 Tx slots	21.76	21.80	21.52	23.00	18.76	18.80	18.52	20.00
Ant 2								
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.16	29.31	29.70	30.50	20.16	20.31	20.70	21.50
GPRS 1 Tx slot	29.17	29.36	29.72	30.50	20.17	20.36	20.72	21.50
GPRS 2 Tx slots	28.51	29.00	28.72	29.70	22.51	23.00	22.72	23.70
GPRS 3 Tx slots	27.04	27.21	27.20	28.00	22.78	22.95	22.94	23.74
GPRS 4 Tx slots	26.17	26.00	26.37	27.00	23.17	23.00	23.37	24.00
EDGE 1 Tx slot	25.53	25.80	25.80	26.50	16.53	16.80	16.80	17.50
EDGE 2 Tx slots	24.91	25.30	25.21	26.00	18.91	19.30	19.21	20.00
EDGE 3 Tx slots	23.67	24.19	23.96	25.00	19.41	19.93	19.70	20.74
EDGE 4 Tx slots	22.96	23.31	23.20	24.00	19.96	20.31	20.20	21.00



Ant 1								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8	32.20	22.47	22.31	22.04	23.20
Frequency (MHz)	824.2	836.4	848.8	32.20	22.47	22.31	22.04	23.20
GSM 1 Tx slot	31.47	31.31	31.04	32.20	22.47	22.31	22.04	23.20
GPRS 1 Tx slot	31.51	31.34	31.08	32.20	22.51	22.34	22.08	23.20
GPRS 2 Tx slots	30.46	30.22	30.20	31.20	24.46	24.22	24.20	25.20
GPRS 3 Tx slots	28.37	28.16	28.05	29.20	24.11	23.90	23.79	24.94
GPRS 4 Tx slots	27.38	27.27	27.36	28.20	24.38	24.27	24.36	25.20
EDGE 1 Tx slot	24.93	24.90	24.60	26.50	15.93	15.90	15.60	17.50
EDGE 2 Tx slots	24.64	24.70	24.50	26.00	18.64	18.70	18.50	20.00
EDGE 3 Tx slots	22.91	22.83	22.86	24.00	18.65	18.57	18.60	19.74
EDGE 4 Tx slots	21.01	21.10	20.74	22.00	18.01	18.10	17.74	19.00
Ant 0								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8	30.20	20.00	20.20	20.39	21.20
Frequency (MHz)	1850.2	1880	1909.8	30.20	20.00	20.20	20.39	21.20
GSM 1 Tx slot	29.00	29.20	29.39	30.20	20.00	20.20	20.39	21.20
GPRS 1 Tx slot	29.13	29.37	29.56	30.20	20.13	20.37	20.56	21.20
GPRS 2 Tx slots	28.50	28.78	28.68	29.70	22.50	22.78	22.68	23.70
GPRS 3 Tx slots	26.80	27.23	27.05	27.70	22.54	22.97	22.79	23.44
GPRS 4 Tx slots	25.51	25.84	25.63	26.70	22.51	22.84	22.63	23.70
EDGE 1 Tx slot	25.56	25.67	25.66	26.50	16.56	16.67	16.66	17.50
EDGE 2 Tx slots	24.74	24.95	25.06	26.00	18.74	18.95	19.06	20.00
EDGE 3 Tx slots	23.52	23.76	23.76	25.00	19.26	19.50	19.50	20.74
EDGE 4 Tx slots	22.59	22.89	22.55	24.00	19.59	19.89	19.55	21.00





Ant 0								
GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.15	32.20	31.85	33.50	23.15	23.20	22.85	24.50
GPRS 1 Tx slot	32.18	32.22	31.86	33.50	23.18	23.22	22.86	24.50
GPRS 2 Tx slots	31.14	31.12	30.80	32.50	25.14	25.12	24.80	26.50
GPRS 3 Tx slots	29.04	29.11	29.03	30.50	24.78	24.85	24.77	26.24
GPRS 4 Tx slots	27.77	28.00	27.60	29.50	24.77	25.00	24.60	26.50
EDGE 1 Tx slot	25.62	25.59	25.53	27.50	16.62	16.59	16.53	18.50
EDGE 2 Tx slots	25.56	25.55	25.30	27.00	19.56	19.55	19.30	21.00
EDGE 3 Tx slots	23.60	23.79	23.44	25.00	19.34	19.53	19.18	20.74
EDGE 4 Tx slots	21.76	21.80	21.52	23.00	18.76	18.80	18.52	20.00
Ant 2								
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.16	29.31	29.70	30.50	20.16	20.31	20.70	21.50
GPRS 1 Tx slot	29.17	29.36	29.72	30.50	20.17	20.36	20.72	21.50
GPRS 2 Tx slots	28.51	29.00	28.72	29.70	22.51	23.00	22.72	23.70
GPRS 3 Tx slots	27.04	27.21	27.20	28.00	22.78	22.95	22.94	23.74
GPRS 4 Tx slots	26.17	26.00	26.37	27.00	23.17	23.00	23.37	24.00
EDGE 1 Tx slot	25.53	25.80	25.80	26.50	16.53	16.80	16.80	17.50
EDGE 2 Tx slots	24.91	25.30	25.21	26.00	18.91	19.30	19.21	20.00
EDGE 3 Tx slots	23.67	24.19	23.96	25.00	19.41	19.93	19.70	20.74
EDGE 4 Tx slots	22.96	23.31	23.20	24.00	19.96	20.31	20.20	21.00



Ant 1								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	32.20	22.47	22.31	22.04	23.20
GSM 1 Tx slot	31.47	31.31	31.04	32.20	22.47	22.31	22.04	23.20
GPRS 1 Tx slot	31.51	31.34	31.08	32.20	22.51	22.34	22.08	23.20
GPRS 2 Tx slots	30.46	30.22	30.20	31.20	24.46	24.22	24.20	25.20
GPRS 3 Tx slots	28.37	28.16	28.05	29.20	24.11	23.90	23.79	24.94
GPRS 4 Tx slots	27.38	27.27	27.36	28.20	24.38	24.27	24.36	25.20
EDGE 1 Tx slot	24.93	24.90	24.60	26.50	15.93	15.90	15.60	17.50
EDGE 2 Tx slots	24.64	24.70	24.50	26.00	18.64	18.70	18.50	20.00
EDGE 3 Tx slots	22.91	22.83	22.86	24.00	18.65	18.57	18.60	19.74
EDGE 4 Tx slots	21.01	21.10	20.74	22.00	18.01	18.10	17.74	19.00
Ant 0								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8	30.20	20.00	20.20	20.39	21.20
GSM 1 Tx slot	29.00	29.20	29.39	30.20	20.00	20.20	20.39	21.20
GPRS 1 Tx slot	29.13	29.37	29.56	30.20	20.13	20.37	20.56	21.20
GPRS 2 Tx slots	28.50	28.78	28.68	29.70	22.50	22.78	22.68	23.70
GPRS 3 Tx slots	26.80	27.23	27.05	27.70	22.54	22.97	22.79	23.44
GPRS 4 Tx slots	25.51	25.84	25.63	26.70	22.51	22.84	22.63	23.70
EDGE 1 Tx slot	25.56	25.67	25.66	26.50	16.56	16.67	16.66	17.50
EDGE 2 Tx slots	24.74	24.95	25.06	26.00	18.74	18.95	19.06	20.00
EDGE 3 Tx slots	23.52	23.76	23.76	25.00	19.26	19.50	19.50	20.74
EDGE 4 Tx slots	22.59	22.89	22.55	24.00	19.59	19.89	19.55	21.00



Ant 0								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.15	32.20	31.85	33.50	23.15	23.20	22.85	24.50
GPRS 1 Tx slot	32.18	32.22	31.86	33.50	23.18	23.22	22.86	24.50
GPRS 2 Tx slots	31.14	31.12	30.80	32.50	25.14	25.12	24.80	26.50
GPRS 3 Tx slots	29.04	29.11	29.03	30.50	24.78	24.85	24.77	26.24
GPRS 4 Tx slots	27.77	28.00	27.60	29.50	24.77	25.00	24.60	26.50
EDGE 1 Tx slot	25.62	25.59	25.53	27.50	16.62	16.59	16.53	18.50
EDGE 2 Tx slots	25.56	25.55	25.30	27.00	19.56	19.55	19.30	21.00
EDGE 3 Tx slots	23.60	23.79	23.44	25.00	19.34	19.53	19.18	20.74
EDGE 4 Tx slots	21.76	21.80	21.52	23.00	18.76	18.80	18.52	20.00
Ant 2								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.16	29.31	29.70	30.50	20.16	20.31	20.70	21.50
GPRS 1 Tx slot	29.17	29.36	29.72	30.50	20.17	20.36	20.72	21.50
GPRS 2 Tx slots	28.51	29.00	28.72	29.70	22.51	23.00	22.72	23.70
GPRS 3 Tx slots	27.04	27.21	27.20	28.00	22.78	22.95	22.94	23.74
GPRS 4 Tx slots	26.17	26.00	26.37	27.00	23.17	23.00	23.37	24.00
EDGE 1 Tx slot	25.53	25.80	25.80	26.50	16.53	16.80	16.80	17.50
EDGE 2 Tx slots	24.91	25.30	25.21	26.00	18.91	19.30	19.21	20.00
EDGE 3 Tx slots	23.67	24.19	23.96	25.00	19.41	19.93	19.70	20.74
EDGE 4 Tx slots	22.96	23.31	23.20	24.00	19.96	20.31	20.20	21.00



Ant 1								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.47	31.31	31.04	32.20	22.47	22.31	22.04	23.20
GPRS 1 Tx slot	31.51	31.34	31.08	32.20	22.51	22.34	22.08	23.20
GPRS 2 Tx slots	30.46	30.22	30.20	31.20	24.46	24.22	24.20	25.20
GPRS 3 Tx slots	28.37	28.16	28.05	29.20	24.11	23.90	23.79	24.94
GPRS 4 Tx slots	27.38	27.27	27.36	28.20	24.38	24.27	24.36	25.20
EDGE 1 Tx slot	24.93	24.90	24.60	26.50	15.93	15.90	15.60	17.50
EDGE 2 Tx slots	24.64	24.70	24.50	26.00	18.64	18.70	18.50	20.00
EDGE 3 Tx slots	22.91	22.83	22.86	24.00	18.65	18.57	18.60	19.74
EDGE 4 Tx slots	21.01	21.10	20.74	22.00	18.01	18.10	17.74	19.00
Ant 0								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.00	29.20	29.39	30.20	20.00	20.20	20.39	21.20
GPRS 1 Tx slot	29.13	29.37	29.56	30.20	20.13	20.37	20.56	21.20
GPRS 2 Tx slots	28.50	28.78	28.68	29.70	22.50	22.78	22.68	23.70
GPRS 3 Tx slots	26.80	27.23	27.05	27.70	22.54	22.97	22.79	23.44
GPRS 4 Tx slots	25.51	25.84	25.63	26.70	22.51	22.84	22.63	23.70
EDGE 1 Tx slot	25.56	25.67	25.66	26.50	16.56	16.67	16.66	17.50
EDGE 2 Tx slots	24.74	24.95	25.06	26.00	18.74	18.95	19.06	20.00
EDGE 3 Tx slots	23.52	23.76	23.76	25.00	19.26	19.50	19.50	20.74
EDGE 4 Tx slots	22.59	22.89	22.55	24.00	19.59	19.89	19.55	21.00



Band		Ant 2			Ant 2			Ant 0			Tune-up Limit (dBm)		
		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			
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	24.56	24.76	24.90	25.70	24.75	24.81	24.79	25.70	24.02	24.16	24.10	25.70
3GPP Rel 99	RMC 12.2Kbps	24.59	24.77	24.92	25.70	24.77	24.87	24.81	25.70	24.08	24.17	24.16	25.70
3GPP Rel 6	HSDPA Subtest-1	23.50	24.48	23.85	24.70	23.83	23.60	23.47	24.70	23.09	23.22	23.21	24.70
3GPP Rel 6	HSDPA Subtest-2	23.44	24.42	23.80	24.70	23.82	23.57	23.51	24.70	23.10	23.23	23.26	24.70
3GPP Rel 6	HSDPA Subtest-3	22.99	23.99	23.33	24.20	23.37	23.11	23.04	24.20	22.64	22.73	22.70	24.20
3GPP Rel 6	HSDPA Subtest-4	22.99	23.91	23.29	24.20	23.28	23.11	23.04	24.20	22.61	22.76	22.67	24.20
3GPP Rel 8	DC-HSDPA Subtest-1	23.43	24.39	23.79	24.70	23.76	23.55	23.46	24.70	22.99	23.22	23.16	24.70
3GPP Rel 8	DC-HSDPA Subtest-2	23.34	24.37	23.72	24.70	23.80	23.55	23.49	24.70	23.02	23.17	23.20	24.70
3GPP Rel 8	DC-HSDPA Subtest-3	22.90	23.99	23.26	24.20	23.28	23.02	22.98	24.20	22.58	22.66	22.64	24.20
3GPP Rel 8	DC-HSDPA Subtest-4	22.94	23.87	23.26	24.20	23.25	23.10	22.98	24.20	22.54	22.76	22.57	24.20
3GPP Rel 6	HSUPA Subtest-1	23.42	24.45	23.86	24.70	23.81	23.62	23.57	24.70	23.11	23.17	23.20	24.70
3GPP Rel 6	HSUPA Subtest-2	21.44	22.45	21.81	22.70	21.80	21.54	21.49	22.70	21.15	21.19	21.21	22.70
3GPP Rel 6	HSUPA Subtest-3	22.47	23.50	22.81	23.70	22.86	22.59	22.51	23.70	22.15	22.17	22.19	23.70
3GPP Rel 6	HSUPA Subtest-4	21.45	22.43	21.82	22.70	21.87	21.56	21.52	22.70	21.13	21.23	21.19	22.70
3GPP Rel 6	HSUPA Subtest-5	23.47	24.40	23.79	24.70	23.87	23.56	23.57	24.70	23.15	23.17	23.19	24.70



Band	TX Channel	Rx Channel	Ant 0			Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)		
			WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V				
			9262	9400	9538		1312	1413			1513	4132		4182	4233
			1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6				
3GPP Rel 99	AMR 12.2Kbps		23.70	23.90	23.97	25.50	23.88	23.92	23.87	25.50	23.53	23.60	23.47	25.00	
3GPP Rel 99	RMC 12.2Kbps		23.75	23.79	23.98	25.50	23.89	24.01	23.97	25.50	23.57	23.62	23.57	25.00	
3GPP Rel 6	HSDPA Subtest-1		22.83	22.99	23.08	24.50	23.02	23.07	23.04	24.50	22.66	22.73	22.63	24.00	
3GPP Rel 6	HSDPA Subtest-2		22.81	22.96	22.81	24.50	23.03	23.06	22.98	24.50	22.69	22.68	22.65	24.00	
3GPP Rel 6	HSDPA Subtest-3		22.33	22.45	22.59	24.00	22.51	22.58	22.51	24.00	22.17	21.87	22.16	23.50	
3GPP Rel 6	HSDPA Subtest-4		22.30	22.45	22.60	24.00	22.53	22.55	22.49	24.00	22.15	22.20	22.15	23.50	
3GPP Rel 8	DC-HSDPA Subtest-1		22.83	22.98	23.07	24.50	22.93	23.02	23.04	24.50	22.57	22.65	22.57	24.00	
3GPP Rel 8	DC-HSDPA Subtest-2		22.73	22.91	22.81	24.50	22.95	23.01	22.90	24.50	22.64	22.65	22.61	24.00	
3GPP Rel 8	DC-HSDPA Subtest-3		22.29	22.35	22.51	24.00	22.44	22.48	22.42	24.00	22.16	21.81	22.07	23.50	
3GPP Rel 8	DC-HSDPA Subtest-4		22.26	22.43	22.53	24.00	22.50	22.47	22.40	24.00	22.11	22.15	22.14	23.50	
3GPP Rel 6	HSUPA Subtest-1		22.82	23.03	23.07	24.50	23.05	23.11	23.00	24.50	22.62	22.68	22.66	24.00	
3GPP Rel 6	HSUPA Subtest-2		20.84	20.98	21.06	22.50	21.01	21.07	21.04	22.50	20.62	20.73	20.69	22.00	
3GPP Rel 6	HSUPA Subtest-3		21.83	21.97	22.07	23.50	22.04	22.04	21.97	23.50	21.62	21.69	21.62	23.00	
3GPP Rel 6	HSUPA Subtest-4		20.81	20.92	21.07	22.50	21.07	21.08	20.98	22.50	20.64	20.72	20.63	22.00	
3GPP Rel 6	HSUPA Subtest-5		22.80	22.90	23.10	24.50	23.00	23.10	23.00	24.50	22.60	22.70	22.60	24.00	



Band		Ant 2				Ant 2				Ant 0			
		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel	9262	9400	9538	1312		1413	1513	4132		4182	4233		
Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458				
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6				
3GPP Rel 99	AMR 12.2Kbps	24.56	24.76	24.90	25.70	24.75	24.81	24.79	25.70	24.02	24.16	24.10	25.70
3GPP Rel 99	RMC 12.2Kbps	24.59	24.77	24.92	25.70	24.77	24.87	24.81	25.70	24.08	24.17	24.16	25.70
3GPP Rel 6	HSDPA Subtest-1	23.50	24.48	23.85	24.70	23.83	23.60	23.47	24.70	23.09	23.22	23.21	24.70
3GPP Rel 6	HSDPA Subtest-2	23.44	24.42	23.80	24.70	23.82	23.57	23.51	24.70	23.10	23.23	23.26	24.70
3GPP Rel 6	HSDPA Subtest-3	22.99	23.99	23.33	24.20	23.37	23.11	23.04	24.20	22.64	22.73	22.70	24.20
3GPP Rel 6	HSDPA Subtest-4	22.99	23.91	23.29	24.20	23.28	23.11	23.04	24.20	22.61	22.76	22.67	24.20
3GPP Rel 8	DC-HSDPA Subtest-1	23.43	24.39	23.79	24.70	23.76	23.55	23.46	24.70	22.99	23.22	23.16	24.70
3GPP Rel 8	DC-HSDPA Subtest-2	23.34	24.37	23.72	24.70	23.80	23.55	23.49	24.70	23.02	23.17	23.20	24.70
3GPP Rel 8	DC-HSDPA Subtest-3	22.90	23.99	23.26	24.20	23.28	23.02	22.98	24.20	22.58	22.66	22.64	24.20
3GPP Rel 8	DC-HSDPA Subtest-4	22.94	23.87	23.26	24.20	23.25	23.10	22.98	24.20	22.54	22.76	22.57	24.20
3GPP Rel 6	HSUPA Subtest-1	23.42	24.45	23.86	24.70	23.81	23.62	23.57	24.70	23.11	23.17	23.20	24.70
3GPP Rel 6	HSUPA Subtest-2	21.44	22.45	21.81	22.70	21.80	21.54	21.49	22.70	21.15	21.19	21.21	22.70
3GPP Rel 6	HSUPA Subtest-3	22.47	23.50	22.81	23.70	22.86	22.59	22.51	23.70	22.15	22.17	22.19	23.70
3GPP Rel 6	HSUPA Subtest-4	21.45	22.43	21.82	22.70	21.87	21.56	21.52	22.70	21.13	21.23	21.19	22.70
3GPP Rel 6	HSUPA Subtest-5	23.47	24.40	23.79	24.70	23.87	23.56	23.57	24.70	23.15	23.17	23.19	24.70



Band		Ant 0			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)
		WCDMA II				WCDMA IV				WCDMA V			
		TX Channel	9262	9400		9538	1312	1413		1513	4132	4182	
	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	23.70	23.90	23.97	25.50	23.88	23.92	23.87	25.50	23.53	23.60	23.47	25.00
3GPP Rel 99	RMC 12.2Kbps	23.75	23.79	23.98	25.50	23.89	24.01	23.97	25.50	23.57	23.62	23.57	25.00
3GPP Rel 6	HSDPA Subtest-1	22.83	22.99	23.08	24.50	23.02	23.07	23.04	24.50	22.66	22.73	22.63	24.00
3GPP Rel 6	HSDPA Subtest-2	22.81	22.96	22.81	24.50	23.03	23.06	22.98	24.50	22.69	22.68	22.65	24.00
3GPP Rel 6	HSDPA Subtest-3	22.33	22.45	22.59	24.00	22.51	22.58	22.51	24.00	22.17	21.87	22.16	23.50
3GPP Rel 6	HSDPA Subtest-4	22.30	22.45	22.60	24.00	22.53	22.55	22.49	24.00	22.15	22.20	22.15	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.83	22.98	23.07	24.50	22.93	23.02	23.04	24.50	22.57	22.65	22.57	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.73	22.91	22.81	24.50	22.95	23.01	22.90	24.50	22.64	22.65	22.61	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.29	22.35	22.51	24.00	22.44	22.48	22.42	24.00	22.16	21.81	22.07	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.26	22.43	22.53	24.00	22.50	22.47	22.40	24.00	22.11	22.15	22.14	23.50
3GPP Rel 6	HSUPA Subtest-1	22.82	23.03	23.07	24.50	23.05	23.11	23.00	24.50	22.62	22.68	22.66	24.00
3GPP Rel 6	HSUPA Subtest-2	20.84	20.98	21.06	22.50	21.01	21.07	21.04	22.50	20.62	20.73	20.69	22.00
3GPP Rel 6	HSUPA Subtest-3	21.83	21.97	22.07	23.50	22.04	22.04	21.97	23.50	21.62	21.69	21.62	23.00
3GPP Rel 6	HSUPA Subtest-4	20.81	20.92	21.07	22.50	21.07	21.08	20.98	22.50	20.64	20.72	20.63	22.00
3GPP Rel 6	HSUPA Subtest-5	22.80	22.90	23.10	24.50	23.00	23.10	23.00	24.50	22.60	22.70	22.60	24.00





Band	TX Channel	Rx Channel	Ant 2			Ant 2			Ant 0			Tune-up Limit (dBm)		
			WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			
			9262	9400	9538		1312	1413	1513		4132		4182	4233
			1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99	AMR 12.2Kbps		24.56	24.76	24.90	25.70	24.75	24.81	24.79	25.70	24.02	24.16	24.10	25.70
3GPP Rel 99	RMC 12.2Kbps		24.59	24.77	24.92	25.70	24.77	24.87	24.81	25.70	24.08	24.17	24.16	25.70
3GPP Rel 6	HSDPA Subtest-1		23.50	24.48	23.85	24.70	23.83	23.60	23.47	24.70	23.09	23.22	23.21	24.70
3GPP Rel 6	HSDPA Subtest-2		23.44	24.42	23.80	24.70	23.82	23.57	23.51	24.70	23.10	23.23	23.26	24.70
3GPP Rel 6	HSDPA Subtest-3		22.99	23.99	23.33	24.20	23.37	23.11	23.04	24.20	22.64	22.73	22.70	24.20
3GPP Rel 6	HSDPA Subtest-4		22.99	23.91	23.29	24.20	23.28	23.11	23.04	24.20	22.61	22.76	22.67	24.20
3GPP Rel 8	DC-HSDPA Subtest-1		23.43	24.39	23.79	24.70	23.76	23.55	23.46	24.70	22.99	23.22	23.16	24.70
3GPP Rel 8	DC-HSDPA Subtest-2		23.34	24.37	23.72	24.70	23.80	23.55	23.49	24.70	23.02	23.17	23.20	24.70
3GPP Rel 8	DC-HSDPA Subtest-3		22.90	23.99	23.26	24.20	23.28	23.02	22.98	24.20	22.58	22.66	22.64	24.20
3GPP Rel 8	DC-HSDPA Subtest-4		22.94	23.87	23.26	24.20	23.25	23.10	22.98	24.20	22.54	22.76	22.57	24.20
3GPP Rel 6	HSUPA Subtest-1		23.42	24.45	23.86	24.70	23.81	23.62	23.57	24.70	23.11	23.17	23.20	24.70
3GPP Rel 6	HSUPA Subtest-2		21.44	22.45	21.81	22.70	21.80	21.54	21.49	22.70	21.15	21.19	21.21	22.70
3GPP Rel 6	HSUPA Subtest-3		22.47	23.50	22.81	23.70	22.86	22.59	22.51	23.70	22.15	22.17	22.19	23.70
3GPP Rel 6	HSUPA Subtest-4		21.45	22.43	21.82	22.70	21.87	21.56	21.52	22.70	21.13	21.23	21.19	22.70
3GPP Rel 6	HSUPA Subtest-5		23.47	24.40	23.79	24.70	23.87	23.56	23.57	24.70	23.15	23.17	23.19	24.70



Band	TX Channel	Rx Channel	Ant 0			Ant 0			Ant 1			Tune-up Limit (dBm)		
			WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			
			9262	9400	9538		1312	1413	1513		4132		4182	4233
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	23.70	23.90	23.97	25.50	23.88	23.92	23.87	25.50	23.53	23.60	23.47	25.00	
3GPP Rel 99	RMC 12.2Kbps	23.75	23.79	23.98	25.50	23.89	24.01	23.97	25.50	23.57	23.62	23.57	25.00	
3GPP Rel 6	HSDPA Subtest-1	22.83	22.99	23.08	24.50	23.02	23.07	23.04	24.50	22.66	22.73	22.63	24.00	
3GPP Rel 6	HSDPA Subtest-2	22.81	22.96	22.81	24.50	23.03	23.06	22.98	24.50	22.69	22.68	22.65	24.00	
3GPP Rel 6	HSDPA Subtest-3	22.33	22.45	22.59	24.00	22.51	22.58	22.51	24.00	22.17	21.87	22.16	23.50	
3GPP Rel 6	HSDPA Subtest-4	22.30	22.45	22.60	24.00	22.53	22.55	22.49	24.00	22.15	22.20	22.15	23.50	
3GPP Rel 8	DC-HSDPA Subtest-1	22.83	22.98	23.07	24.50	22.93	23.02	23.04	24.50	22.57	22.65	22.57	24.00	
3GPP Rel 8	DC-HSDPA Subtest-2	22.73	22.91	22.81	24.50	22.95	23.01	22.90	24.50	22.64	22.65	22.61	24.00	
3GPP Rel 8	DC-HSDPA Subtest-3	22.29	22.35	22.51	24.00	22.44	22.48	22.42	24.00	22.16	21.81	22.07	23.50	
3GPP Rel 8	DC-HSDPA Subtest-4	22.26	22.43	22.53	24.00	22.50	22.47	22.40	24.00	22.11	22.15	22.14	23.50	
3GPP Rel 6	HSUPA Subtest-1	22.82	23.03	23.07	24.50	23.05	23.11	23.00	24.50	22.62	22.68	22.66	24.00	
3GPP Rel 6	HSUPA Subtest-2	20.84	20.98	21.06	22.50	21.01	21.07	21.04	22.50	20.62	20.73	20.69	22.00	
3GPP Rel 6	HSUPA Subtest-3	21.83	21.97	22.07	23.50	22.04	22.04	21.97	23.50	21.62	21.69	21.62	23.00	
3GPP Rel 6	HSUPA Subtest-4	20.81	20.92	21.07	22.50	21.07	21.08	20.98	22.50	20.64	20.72	20.63	22.00	
3GPP Rel 6	HSUPA Subtest-5	22.80	22.90	23.10	24.50	23.00	23.10	23.00	24.50	22.60	22.70	22.60	24.00	



Band	Ant 2			Tune-up Limit (dBm)	Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	
	WCDMA II				WCDMA IV				WCDMA V				
	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	24.06	24.31	24.46	25.70	23.74	23.83	23.69	25.20	24.02	24.16	24.10	25.70
3GPP Rel 99	RMC 12.2Kbps	24.13	24.37	24.49	25.70	23.75	23.84	23.76	25.20	24.08	24.17	24.16	25.70
3GPP Rel 6	HSDPA Subtest-1	23.14	23.39	23.47	24.70	22.82	22.88	22.77	24.20	23.09	23.22	23.21	24.70
3GPP Rel 6	HSDPA Subtest-2	23.15	23.39	23.50	24.70	22.80	22.86	22.77	24.20	23.10	23.23	23.26	24.70
3GPP Rel 6	HSDPA Subtest-3	22.66	22.89	22.96	24.20	22.31	22.36	22.27	23.70	22.64	22.73	22.70	24.20
3GPP Rel 6	HSDPA Subtest-4	22.64	22.89	22.98	24.20	22.30	22.40	22.26	23.70	22.61	22.76	22.67	24.20
3GPP Rel 8	DC-HSDPA Subtest-1	23.04	23.36	23.43	24.70	22.82	22.79	22.74	24.20	22.99	23.22	23.16	24.70
3GPP Rel 8	DC-HSDPA Subtest-2	23.15	23.34	23.49	24.70	22.74	22.84	22.71	24.20	23.02	23.17	23.20	24.70
3GPP Rel 8	DC-HSDPA Subtest-3	22.66	22.81	22.91	24.20	22.27	22.30	22.27	23.70	22.58	22.66	22.64	24.20
3GPP Rel 8	DC-HSDPA Subtest-4	22.61	22.85	22.95	24.20	22.23	22.32	22.16	23.70	22.54	22.76	22.57	24.20
3GPP Rel 6	HSUPA Subtest-1	23.18	23.42	23.47	24.70	22.80	22.84	22.79	24.20	23.11	23.17	23.20	24.70
3GPP Rel 6	HSUPA Subtest-2	21.16	21.35	21.46	22.70	20.85	20.92	20.77	22.20	21.15	21.19	21.21	22.70
3GPP Rel 6	HSUPA Subtest-3	22.13	22.45	22.46	23.70	21.80	21.81	21.77	23.20	22.15	22.17	22.19	23.70
3GPP Rel 6	HSUPA Subtest-4	21.15	21.42	21.45	22.70	20.80	20.87	20.79	22.20	21.13	21.23	21.19	22.70
3GPP Rel 6	HSUPA Subtest-5	23.20	23.40	23.40	24.70	22.80	22.90	22.80	24.20	23.15	23.17	23.19	24.70



Band	TX Channel	Ant 0			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)
		WCDMA II				WCDMA IV				WCDMA V			
		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	23.70	23.90	23.97	25.50	23.88	23.92	23.87	25.50	23.53	23.60	23.47	25.00
3GPP Rel 99	RMC 12.2Kbps	23.75	23.79	23.98	25.50	23.89	24.01	23.97	25.50	23.57	23.62	23.57	25.00
3GPP Rel 6	HSDPA Subtest-1	22.83	22.99	23.08	24.50	23.02	23.07	23.04	24.50	22.66	22.73	22.63	24.00
3GPP Rel 6	HSDPA Subtest-2	22.81	22.96	22.81	24.50	23.03	23.06	22.98	24.50	22.69	22.68	22.65	24.00
3GPP Rel 6	HSDPA Subtest-3	22.33	22.45	22.59	24.00	22.51	22.58	22.51	24.00	22.17	21.87	22.16	23.50
3GPP Rel 6	HSDPA Subtest-4	22.30	22.45	22.60	24.00	22.53	22.55	22.49	24.00	22.15	22.20	22.15	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.83	22.98	23.07	24.50	22.93	23.02	23.04	24.50	22.57	22.65	22.57	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.73	22.91	22.81	24.50	22.95	23.01	22.90	24.50	22.64	22.65	22.61	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.29	22.35	22.51	24.00	22.44	22.48	22.42	24.00	22.16	21.81	22.07	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.26	22.43	22.53	24.00	22.50	22.47	22.40	24.00	22.11	22.15	22.14	23.50
3GPP Rel 6	HSUPA Subtest-1	22.82	23.03	23.07	24.50	23.05	23.11	23.00	24.50	22.62	22.68	22.66	24.00
3GPP Rel 6	HSUPA Subtest-2	20.84	20.98	21.06	22.50	21.01	21.07	21.04	22.50	20.62	20.73	20.69	22.00
3GPP Rel 6	HSUPA Subtest-3	21.83	21.97	22.07	23.50	22.04	22.04	21.97	23.50	21.62	21.69	21.62	23.00
3GPP Rel 6	HSUPA Subtest-4	20.81	20.92	21.07	22.50	21.07	21.08	20.98	22.50	20.64	20.72	20.63	22.00
3GPP Rel 6	HSUPA Subtest-5	22.80	22.90	23.10	24.50	23.00	23.10	23.00	24.50	22.60	22.70	22.60	24.00



Band	Ant 2			Tune-up Limit (dBm)	Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)
	WCDMA II				WCDMA IV				WCDMA V			
TX Channel	9262	9400	9538	1312	1413	1513	4132	4182	4233	9662	9800	9938
Rx Channel	1852.4	1880	1907.6									
Frequency (MHz)	1712.4	1732.6	1752.6	826.4	836.4	846.6						
3GPP Rel 99 AMR 12.2Kbps	24.06	24.31	24.46	24.90	23.74	23.83	23.69	24.60	24.02	24.16	24.10	25.70
3GPP Rel 99 RMC 12.2Kbps	24.13	24.37	24.49	24.90	23.75	23.84	23.76	24.60	24.08	24.17	24.16	25.70
3GPP Rel 6 HSDPA Subtest-1	23.14	23.39	23.47	23.90	22.82	22.88	22.77	23.60	23.09	23.22	23.21	24.70
3GPP Rel 6 HSDPA Subtest-2	23.15	23.39	23.50	23.90	22.80	22.86	22.77	23.60	23.10	23.23	23.26	24.70
3GPP Rel 6 HSDPA Subtest-3	22.66	22.89	22.96	23.40	22.31	22.36	22.27	23.10	22.64	22.73	22.70	24.20
3GPP Rel 6 HSDPA Subtest-4	22.64	22.89	22.98	23.40	22.30	22.40	22.26	23.10	22.61	22.76	22.67	24.20
3GPP Rel 8 DC-HSDPA Subtest-1	23.04	23.36	23.43	23.90	22.82	22.79	22.74	23.60	22.99	23.22	23.16	24.70
3GPP Rel 8 DC-HSDPA Subtest-2	23.15	23.34	23.49	23.90	22.74	22.84	22.71	23.60	23.02	23.17	23.20	24.70
3GPP Rel 8 DC-HSDPA Subtest-3	22.66	22.81	22.91	23.40	22.27	22.30	22.27	23.10	22.58	22.66	22.64	24.20
3GPP Rel 8 DC-HSDPA Subtest-4	22.61	22.85	22.95	23.40	22.23	22.32	22.16	23.10	22.54	22.76	22.57	24.20
3GPP Rel 6 HSUPA Subtest-1	23.18	23.42	23.47	23.90	22.80	22.84	22.79	23.60	23.11	23.17	23.20	24.70
3GPP Rel 6 HSUPA Subtest-2	21.16	21.35	21.46	21.90	20.85	20.92	20.77	21.60	21.15	21.19	21.21	22.70
3GPP Rel 6 HSUPA Subtest-3	22.13	22.45	22.46	22.90	21.80	21.81	21.77	22.60	22.15	22.17	22.19	23.70
3GPP Rel 6 HSUPA Subtest-4	21.15	21.42	21.45	21.90	20.80	20.87	20.79	21.60	21.13	21.23	21.19	22.70
3GPP Rel 6 HSUPA Subtest-5	23.20	23.40	23.40	23.90	22.80	22.90	22.80	23.60	23.15	23.17	23.19	24.70



Band	TX Channel	Rx Channel	Ant 0			Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)	
			WCDMA II			Tune-up Limit (dBm)	WCDMA IV			WCDMA V				
			9262	9400	9538		1312	1413		1513	4132	4182		4233
			1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99	AMR 12.2Kbps		23.70	23.90	23.97	25.50	23.88	23.92	23.87	25.50	23.53	23.60	23.47	25.00
3GPP Rel 99	RMC 12.2Kbps		23.75	23.79	23.98	25.50	23.89	24.01	23.97	25.50	23.57	23.62	23.57	25.00
3GPP Rel 6	HSDPA Subtest-1		22.83	22.99	23.08	24.50	23.02	23.07	23.04	24.50	22.66	22.73	22.63	24.00
3GPP Rel 6	HSDPA Subtest-2		22.81	22.96	22.81	24.50	23.03	23.06	22.98	24.50	22.69	22.68	22.65	24.00
3GPP Rel 6	HSDPA Subtest-3		22.33	22.45	22.59	24.00	22.51	22.58	22.51	24.00	22.17	21.87	22.16	23.50
3GPP Rel 6	HSDPA Subtest-4		22.30	22.45	22.60	24.00	22.53	22.55	22.49	24.00	22.15	22.20	22.15	23.50
3GPP Rel 8	DC-HSDPA Subtest-1		22.83	22.98	23.07	24.50	22.93	23.02	23.04	24.50	22.57	22.65	22.57	24.00
3GPP Rel 8	DC-HSDPA Subtest-2		22.73	22.91	22.81	24.50	22.95	23.01	22.90	24.50	22.64	22.65	22.61	24.00
3GPP Rel 8	DC-HSDPA Subtest-3		22.29	22.35	22.51	24.00	22.44	22.48	22.42	24.00	22.16	21.81	22.07	23.50
3GPP Rel 8	DC-HSDPA Subtest-4		22.26	22.43	22.53	24.00	22.50	22.47	22.40	24.00	22.11	22.15	22.14	23.50
3GPP Rel 6	HSUPA Subtest-1		22.82	23.03	23.07	24.50	23.05	23.11	23.00	24.50	22.62	22.68	22.66	24.00
3GPP Rel 6	HSUPA Subtest-2		20.84	20.98	21.06	22.50	21.01	21.07	21.04	22.50	20.62	20.73	20.69	22.00
3GPP Rel 6	HSUPA Subtest-3		21.83	21.97	22.07	23.50	22.04	22.04	21.97	23.50	21.62	21.69	21.62	23.00
3GPP Rel 6	HSUPA Subtest-4		20.81	20.92	21.07	22.50	21.07	21.08	20.98	22.50	20.64	20.72	20.63	22.00
3GPP Rel 6	HSUPA Subtest-5		22.80	22.90	23.10	24.50	23.00	23.10	23.00	24.50	22.60	22.70	22.60	24.00



Band	TX Channel	Rx Channel	Ant 2			Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	
			WCDMA II			WCDMA IV				WCDMA V				
			9262	9400	9538	1312	1413	1513		4132	4182	4233		
			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		24.06	24.31	24.46	24.90	23.74	23.83	23.69	24.40	24.02	24.16	24.10	25.70
3GPP Rel 99	RMC 12.2Kbps		24.13	24.37	24.49	24.90	23.75	23.84	23.76	24.40	24.08	24.17	24.16	25.70
3GPP Rel 6	HSDPA Subtest-1		23.14	23.39	23.47	23.90	22.82	22.88	22.77	23.40	23.09	23.22	23.21	24.70
3GPP Rel 6	HSDPA Subtest-2		23.15	23.39	23.50	23.90	22.80	22.86	22.77	23.40	23.10	23.23	23.26	24.70
3GPP Rel 6	HSDPA Subtest-3		22.66	22.89	22.96	23.40	22.31	22.36	22.27	22.90	22.64	22.73	22.70	24.20
3GPP Rel 6	HSDPA Subtest-4		22.64	22.89	22.98	23.40	22.30	22.40	22.26	22.90	22.61	22.76	22.67	24.20
3GPP Rel 8	DC-HSDPA Subtest-1		23.04	23.36	23.43	23.90	22.82	22.79	22.74	23.40	22.99	23.22	23.16	24.70
3GPP Rel 8	DC-HSDPA Subtest-2		23.15	23.34	23.49	23.90	22.74	22.84	22.71	23.40	23.02	23.17	23.20	24.70
3GPP Rel 8	DC-HSDPA Subtest-3		22.66	22.81	22.91	23.40	22.27	22.30	22.27	22.90	22.58	22.66	22.64	24.20
3GPP Rel 8	DC-HSDPA Subtest-4		22.61	22.85	22.95	23.40	22.23	22.32	22.16	22.90	22.54	22.76	22.57	24.20
3GPP Rel 6	HSUPA Subtest-1		23.18	23.42	23.47	23.90	22.80	22.84	22.79	23.40	23.11	23.17	23.20	24.70
3GPP Rel 6	HSUPA Subtest-2		21.16	21.35	21.46	21.90	20.85	20.92	20.77	21.40	21.15	21.19	21.21	22.70
3GPP Rel 6	HSUPA Subtest-3		22.13	22.45	22.46	22.90	21.80	21.81	21.77	22.40	22.15	22.17	22.19	23.70
3GPP Rel 6	HSUPA Subtest-4		21.15	21.42	21.45	21.90	20.80	20.87	20.79	21.40	21.13	21.23	21.19	22.70
3GPP Rel 6	HSUPA Subtest-5		23.20	23.40	23.40	23.90	22.80	22.90	22.80	23.40	23.15	23.17	23.19	24.70



Band		Ant 0			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)	
		WCDMA II				WCDMA IV				WCDMA V				
		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	23.70	23.90	23.97	25.50	23.88	23.92	23.87	25.50	23.53	23.60	23.47	25.00	
3GPP Rel 99	RMC 12.2Kbps	23.75	23.79	23.98	25.50	23.89	24.01	23.97	25.50	23.57	23.62	23.57	25.00	
3GPP Rel 6	HSDPA Subtest-1	22.83	22.99	23.08	24.50	23.02	23.07	23.04	24.50	22.66	22.73	22.63	24.00	
3GPP Rel 6	HSDPA Subtest-2	22.81	22.96	22.81	24.50	23.03	23.06	22.98	24.50	22.69	22.68	22.65	24.00	
3GPP Rel 6	HSDPA Subtest-3	22.33	22.45	22.59	24.00	22.51	22.58	22.51	24.00	22.17	21.87	22.16	23.50	
3GPP Rel 6	HSDPA Subtest-4	22.30	22.45	22.60	24.00	22.53	22.55	22.49	24.00	22.15	22.20	22.15	23.50	
3GPP Rel 8	DC-HSDPA Subtest-1	22.83	22.98	23.07	24.50	22.93	23.02	23.04	24.50	22.57	22.65	22.57	24.00	
3GPP Rel 8	DC-HSDPA Subtest-2	22.73	22.91	22.81	24.50	22.95	23.01	22.90	24.50	22.64	22.65	22.61	24.00	
3GPP Rel 8	DC-HSDPA Subtest-3	22.29	22.35	22.51	24.00	22.44	22.48	22.42	24.00	22.16	21.81	22.07	23.50	
3GPP Rel 8	DC-HSDPA Subtest-4	22.26	22.43	22.53	24.00	22.50	22.47	22.40	24.00	22.11	22.15	22.14	23.50	
3GPP Rel 6	HSUPA Subtest-1	22.82	23.03	23.07	24.50	23.05	23.11	23.00	24.50	22.62	22.68	22.66	24.00	
3GPP Rel 6	HSUPA Subtest-2	20.84	20.98	21.06	22.50	21.01	21.07	21.04	22.50	20.62	20.73	20.69	22.00	
3GPP Rel 6	HSUPA Subtest-3	21.83	21.97	22.07	23.50	22.04	22.04	21.97	23.50	21.62	21.69	21.62	23.00	
3GPP Rel 6	HSUPA Subtest-4	20.81	20.92	21.07	22.50	21.07	21.08	20.98	22.50	20.64	20.72	20.63	22.00	
3GPP Rel 6	HSUPA Subtest-5	22.80	22.90	23.10	24.50	23.00	23.10	23.00	24.50	22.60	22.70	22.60	24.00	





Band	Ant 0			Tune-up Limit (dBm)	Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)
	CDMA BC0				CDMA BC1				CDMA BC10			
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	24.05	24.03	24.14	25.50	24.00	24.24	24.50	25.50	24.03	24.08	23.98	25.50
RC3 SO55	24.09	24.06	24.10	25.50	24.09	24.31	24.54	25.50	24.06	24.07	24.01	25.50
RC3 SO32 (F+SCH)	24.09	24.11	24.14	25.50	24.09	24.33	24.60	25.50	24.06	24.12	24.06	25.50
RC3 SO32 (+SCH)	24.01	24.08	24.07	25.50	24.05	24.27	24.52	25.50	23.96	24.10	24.02	25.50
RTAP 153.6Kbps	24.11	24.12	24.16	25.50	24.12	24.34	24.63	25.50	24.08	24.13	24.07	25.50
RETAP 4096Bits	24.08	24.08	24.09	25.50	24.06	24.26	24.54	25.50	24.06	24.04	24.01	25.50



Band	Ant 1			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)
	CDMA BC0				CDMA BC1				CDMA BC10			
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	23.55	23.67	23.62	25.50	23.56	23.77	24.03	25.50	23.62	23.66	23.59	25.50
RC3 SO55	23.63	23.74	23.62	25.50	23.59	23.82	24.05	25.50	23.64	23.69	23.68	25.50
RC3 SO32 (F+SCH)	23.62	23.72	23.59	25.50	23.60	23.86	24.06	25.50	23.63	23.68	23.67	25.50
RC3 SO32 (+SCH)	23.59	23.69	23.50	25.50	23.51	23.78	24.00	25.50	23.62	23.61	23.65	25.50
RTAP 153.6Kbps	23.69	23.76	23.67	25.50	23.63	23.92	24.08	25.50	23.68	23.72	23.70	25.50
RETAP 4096Bits	23.64	23.74	23.62	25.50	23.55	23.86	24.04	25.50	23.61	23.66	23.61	25.50



Band	Ant 0				Ant 2				Ant 0			
	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
Frequency (MHz)	24.05	24.03	24.14	25.50	24.00	24.24	24.50	25.50	24.03	24.08	23.98	25.50
RC1 SO55	24.09	24.06	24.10	25.50	24.09	24.31	24.54	25.50	24.06	24.07	24.01	25.50
RC3 SO55	24.09	24.11	24.14	25.50	24.09	24.33	24.60	25.50	24.06	24.12	24.06	25.50
RC3 SO32 (F+SCH)	24.01	24.08	24.07	25.50	24.05	24.27	24.52	25.50	23.96	24.10	24.02	25.50
RC3 SO32 (+SCH)	24.11	24.12	24.16	25.50	24.12	24.34	24.63	25.50	24.08	24.13	24.07	25.50
RTAP 153.6Kbps	24.08	24.08	24.09	25.50	24.06	24.26	24.54	25.50	24.06	24.04	24.01	25.50
RETAP 4096Bits												



Band	Ant 1				Ant 0				Ant 1			
	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	23.40	23.42	23.44	25.40	23.56	23.77	24.03	25.50	23.62	23.66	23.59	25.50
RC3 SO55	23.41	23.48	23.49	25.40	23.59	23.82	24.05	25.50	23.64	23.69	23.68	25.50
RC3 SO32 (F+SCH)	23.40	23.50	23.48	25.40	23.60	23.86	24.06	25.50	23.63	23.68	23.67	25.50
RC3 SO32 (+SCH)	23.42	23.49	23.44	25.40	23.51	23.78	24.00	25.50	23.62	23.61	23.65	25.50
RTAP 153.6Kbps	23.47	23.54	23.58	25.40	23.63	23.92	24.08	25.50	23.68	23.72	23.70	25.50
RETAP 4096Bits	23.43	23.48	23.43	25.40	23.55	23.86	24.04	25.50	23.61	23.66	23.61	25.50



Band	Ant 0				Ant 2				Ant 0			
	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31	25.50	1851.25	1880	1908.75	25.50	817.9	820.5	823.1	25.50
RC1 SO55	24.05	24.03	24.14	25.50	24.00	24.24	24.50	25.50	24.03	24.08	23.98	25.50
RC3 SO55	24.09	24.06	24.10	25.50	24.09	24.31	24.54	25.50	24.06	24.07	24.01	25.50
RC3 SO32 (F+SCH)	24.09	24.11	24.14	25.50	24.09	24.33	24.60	25.50	24.06	24.12	24.06	25.50
RC3 SO32 (+SCH)	24.01	24.08	24.07	25.50	24.05	24.27	24.52	25.50	23.96	24.10	24.02	25.50
RTAP 153.6Kbps	24.11	24.12	24.16	25.50	24.12	24.34	24.63	25.50	24.08	24.13	24.07	25.50
RETAP 4096Bits	24.08	24.08	24.09	25.50	24.06	24.26	24.54	25.50	24.06	24.04	24.01	25.50



Band	Ant 1			Ant 0			Ant 1			Tune-up Limit (dBm)		
	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			
	1013	384	777		25	600	1175		476		580	684
TX Channel	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1			
Frequency (MHz)	22.60	22.59	22.71	24.60	23.56	23.77	24.03	25.50	22.71	22.73	22.74	24.70
RC1 SO55	22.61	22.67	22.72	24.60	23.59	23.82	24.05	25.50	22.72	22.74	22.75	24.70
RC3 SO55	22.62	22.64	22.70	24.60	23.60	23.86	24.06	25.50	22.70	22.72	22.74	24.70
RC3 SO32 (F+SCH)	22.60	22.66	22.66	24.60	23.51	23.78	24.00	25.50	22.72	22.73	22.76	24.70
RC3 SO32 (+SCH)	22.67	22.74	22.76	24.60	23.63	23.92	24.08	25.50	22.75	22.80	22.78	24.70
RTAP 153.6Kbps	22.61	22.63	22.69	24.60	23.55	23.86	24.04	25.50	22.70	22.72	22.74	24.70
RETAP 4096Bits												



Band	Ant 0			Tune-up Limit (dBm)	Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)
	CDMA BC0				CDMA BC1				CDMA BC10			
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1			
Frequency (MHz)	24.05	24.03	24.14	25.50	23.70	23.94	24.11	25.10	24.03	24.08	23.98	25.50
RC1 SO55	24.09	24.06	24.10	25.50	23.77	23.98	24.20	25.10	24.06	24.07	24.01	25.50
RC3 SO55	24.09	24.11	24.14	25.50	23.76	23.98	24.18	25.10	24.06	24.12	24.06	25.50
RC3 SO32 (F+SCH)	24.01	24.08	24.07	25.50	23.67	23.92	24.18	25.10	23.96	24.10	24.02	25.50
RC3 SO32 (+SCH)	24.11	24.12	24.16	25.50	23.83	24.02	24.26	25.10	24.08	24.13	24.07	25.50
RTAP 153.6Kbps	24.08	24.08	24.09	25.50	23.72	23.90	24.19	25.10	24.06	24.04	24.01	25.50
RETAP 4096Bits												



Band	Ant 1				Ant 0				Ant 1			
	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31	25.50	1851.25	1880	1908.75	25.50	817.9	820.5	823.1	25.50
Frequency (MHz)	23.55	23.67	23.62	25.50	23.56	23.77	24.03	25.50	23.62	23.66	23.59	25.50
RC1 SO55	23.63	23.74	23.62	25.50	23.59	23.82	24.05	25.50	23.64	23.69	23.68	25.50
RC3 SO55	23.62	23.72	23.59	25.50	23.60	23.86	24.06	25.50	23.63	23.68	23.67	25.50
RC3 SO32 (F+SCH)	23.59	23.69	23.50	25.50	23.51	23.78	24.00	25.50	23.62	23.61	23.65	25.50
RC3 SO32 (+SCH)	23.69	23.76	23.67	25.50	23.63	23.92	24.08	25.50	23.68	23.72	23.70	25.50
RTAP 153.6Kbps	23.64	23.74	23.62	25.50	23.55	23.86	24.04	25.50	23.61	23.66	23.61	25.50
RETAP 4096Bits												





Band	Ant 0			Tune-up Limit (dBm)	Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)
	CDMA BC0				CDMA BC1				CDMA BC10			
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1			
RC1 SO55	24.05	24.03	24.14	25.50	22.94	23.05	23.41	24.30	24.03	24.08	23.98	25.50
RC3 SO55	24.09	24.06	24.10	25.50	22.95	23.15	23.41	24.30	24.06	24.07	24.01	25.50
RC3 SO32 (F+SCH)	24.09	24.11	24.14	25.50	22.94	23.16	23.40	24.30	24.06	24.12	24.06	25.50
RC3 SO32 (+SCH)	24.01	24.08	24.07	25.50	22.92	23.12	23.36	24.30	23.96	24.10	24.02	25.50
RTAP 153.6Kbps	24.11	24.12	24.16	25.50	23.00	23.19	23.45	24.30	24.08	24.13	24.07	25.50
RETAP 4096Bits	24.08	24.08	24.09	25.50	22.94	23.08	23.37	24.30	24.06	24.04	24.01	25.50



Band	Ant 1				Ant 0				Ant 1			
	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
Frequency (MHz)	23.55	23.67	23.62	25.50	23.56	23.77	24.03	25.50	23.62	23.66	23.59	25.50
RC1 SO55	23.63	23.74	23.62	25.50	23.59	23.82	24.05	25.50	23.64	23.69	23.68	25.50
RC3 SO55	23.62	23.72	23.59	25.50	23.60	23.86	24.06	25.50	23.63	23.68	23.67	25.50
RC3 SO32 (F+SCH)	23.59	23.69	23.50	25.50	23.51	23.78	24.00	25.50	23.62	23.61	23.65	25.50
RC3 SO32 (+SCH)	23.69	23.76	23.67	25.50	23.63	23.92	24.08	25.50	23.68	23.72	23.70	25.50
RTAP 153.6Kbps	23.64	23.74	23.62	25.50	23.55	23.86	24.04	25.50	23.61	23.66	23.61	25.50
RETAP 4096Bits												



Band	Ant 0				Ant 2				Ant 0			
	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
Frequency (MHz)	24.05	24.03	24.14	25.50	22.94	23.05	23.41	24.30	24.03	24.08	23.98	25.50
RC1 SO55	24.09	24.06	24.10	25.50	22.95	23.15	23.41	24.30	24.06	24.07	24.01	25.50
RC3 SO55	24.09	24.11	24.14	25.50	22.94	23.16	23.40	24.30	24.06	24.12	24.06	25.50
RC3 SO32 (F+SCH)	24.01	24.08	24.07	25.50	22.92	23.12	23.36	24.30	23.96	24.10	24.02	25.50
RC3 SO32 (+SCH)	24.11	24.12	24.16	25.50	23.00	23.19	23.45	24.30	24.08	24.13	24.07	25.50
RTAP 153.6Kbps	24.08	24.08	24.09	25.50	22.94	23.08	23.37	24.30	24.06	24.04	24.01	25.50
RETAP 4096Bits												



Band	Ant 1			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)
	CDMA BC0				CDMA BC1				CDMA BC10			
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	23.55	23.67	23.62	25.50	23.56	23.77	24.03	25.50	23.62	23.66	23.59	25.50
RC3 SO55	23.63	23.74	23.62	25.50	23.59	23.82	24.05	25.50	23.64	23.69	23.68	25.50
RC3 SO32 (F+SCH)	23.62	23.72	23.59	25.50	23.60	23.86	24.06	25.50	23.63	23.68	23.67	25.50
RC3 SO32 (+SCH)	23.59	23.69	23.50	25.50	23.51	23.78	24.00	25.50	23.62	23.61	23.65	25.50
RTAP 153.6Kbps	23.69	23.76	23.67	25.50	23.63	23.92	24.08	25.50	23.68	23.72	23.70	25.50
RETAP 4096Bits	23.64	23.74	23.62	25.50	23.55	23.86	24.04	25.50	23.61	23.66	23.61	25.50



Band 2_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Time-up limit (min)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.89	24.03	24.14	24.24	25.7	
20	QPSK	1	49	23.89	24.13	24.23	24.33		
20	QPSK	1	99	24.08	24.14	24.18	24.18		
20	QPSK	66	0	23.00	23.15	23.22	23.32	24.7	
20	QPSK	50	24	23.14	23.25	23.28	23.38		
20	QPSK	50	50	23.16	23.30	23.35	23.35		
20	QPSK	100	0	23.14	23.18	23.32	23.32	24.7	
20	HQAM	1	0	23.27	23.30	23.51	23.51		
20	HQAM	1	49	23.16	23.49	23.35	23.45		
20	HQAM	50	0	23.34	23.42	23.48	23.48	23.7	
20	HQAM	50	0	22.03	22.09	22.27	22.27		
20	HQAM	50	25	22.13	22.22	22.26	22.26		
20	HQAM	50	50	22.24	22.33	22.40	22.40	23.7	
20	HQAM	100	0	22.14	22.21	22.20	22.20		
20	HQAM	1	49	22.07	22.33	21.57	21.57		
20	HQAM	1	99	22.27	22.43	21.88	21.88	22.7	
20	HQAM	50	0	21.18	21.28	20.75	20.75		
20	HQAM	50	24	21.18	21.28	20.74	20.74		
20	HQAM	50	50	21.16	21.30	20.98	20.98	20.7	
20	HQAM	100	0	21.14	21.22	20.70	20.70		
20	SRQAM	1	0	19.93	19.98	19.70	19.70		
20	SRQAM	1	49	19.82	19.72	19.74	19.74	20.7	
20	SRQAM	1	99	19.87	19.78	19.81	19.81		
20	SRQAM	50	0	19.86	19.83	19.80	19.80		
20	SRQAM	50	25	19.71	19.66	19.68	19.68	20.7	
20	SRQAM	50	50	19.70	19.77	19.77	19.77		
20	SRQAM	100	0	19.62	19.62	19.71	19.71		
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.84	23.97	24.16	24.16	25.7	
15	QPSK	1	49	23.83	24.04	24.13	24.13		
15	QPSK	1	74	24.08	24.12	24.11	24.11		
15	QPSK	36	0	23.00	23.16	23.15	23.15	24.7	
15	QPSK	36	29	23.04	23.25	23.28	23.28		
15	QPSK	36	39	23.15	23.30	23.34	23.34		
15	QPSK	75	0	23.13	23.16	23.23	23.23	24.7	
15	HQAM	1	0	23.22	23.28	23.26	23.26		
15	HQAM	1	37	23.08	23.41	23.25	23.44		
15	HQAM	1	74	23.10	23.22	23.44	23.44	23.7	
15	HQAM	36	0	21.99	22.03	22.27	22.27		
15	HQAM	36	20	22.08	22.16	22.24	22.24		
15	HQAM	36	39	22.04	22.09	22.30	22.30	23.7	
15	HQAM	75	0	22.10	22.15	22.14	22.14		
15	HQAM	1	0	22.48	22.09	22.28	22.28		
15	HQAM	1	49	22.00	22.25	21.70	21.70	22.7	
15	HQAM	1	74	22.20	22.35	21.78	21.78		
15	HQAM	36	0	21.10	21.15	20.70	20.70		
15	HQAM	36	29	21.17	21.17	20.71	20.71	20.7	
15	HQAM	36	39	21.09	21.28	20.83	20.83		
15	SRQAM	75	0	21.13	21.15	20.70	20.70		
15	SRQAM	1	0	19.62	19.49	19.63	19.63	20.7	
15	SRQAM	1	37	19.52	19.83	19.84	19.84		
15	SRQAM	1	74	19.53	19.53	19.54	19.54		
15	SRQAM	36	0	19.51	19.50	19.50	19.50	20.7	
15	SRQAM	36	20	19.61	19.58	19.88	19.88		
15	SRQAM	36	39	19.66	19.71	19.71	19.71		
15	SRQAM	75	0	19.54	19.55	19.71	19.71		
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.80	23.96	24.11	24.11	25.7	
10	QPSK	1	25	23.88	24.05	24.08	24.08		
10	QPSK	1	49	24.08	24.05	24.12	24.12		
10	QPSK	25	0	22.92	23.13	23.12	23.12	24.7	
10	QPSK	25	12	23.08	23.18	23.19	23.19		
10	QPSK	25	24	23.04	23.21	23.28	23.28		
10	QPSK	66	0	23.12	23.06	23.31	23.31	24.7	
10	HQAM	1	0	23.18	23.23	23.41	23.41		
10	HQAM	1	24	23.15	23.47	23.32	23.32		
10	HQAM	1	49	23.33	23.37	23.40	23.40	23.7	
10	HQAM	25	0	21.98	22.07	22.31	22.31		
10	HQAM	25	12	22.09	22.19	22.23	22.23		
10	HQAM	25	24	22.20	22.28	22.34	22.34	23.7	
10	HQAM	66	0	22.08	22.13	22.10	22.10		
10	HQAM	1	0	22.46	22.12	22.33	22.33		
10	HQAM	1	25	22.07	22.30	21.70	21.70	22.7	
10	HQAM	1	49	22.21	22.37	21.78	21.78		
10	HQAM	25	0	21.87	21.11	20.70	20.70		
10	HQAM	25	12	21.10	21.19	20.71	20.71	22.7	
10	HQAM	25	24	21.15	21.21	20.86	20.86		
10	HQAM	50	0	21.08	21.20	20.70	20.70		
10	SRQAM	1	0	19.55	19.69	19.70	19.70	20.7	
10	SRQAM	1	25	19.55	19.69	19.70	19.70		
10	SRQAM	1	49	19.87	19.69	19.88	19.88		
10	SRQAM	25	0	19.78	19.67	19.82	19.82	20.7	
10	SRQAM	25	12	19.52	19.54	19.83	19.83		
10	SRQAM	25	24	19.62	19.76	19.77	19.77		
10	SRQAM	50	0	19.67	19.67	19.68	19.68		
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.83	23.87	24.12	24.12	25.7	
5	QPSK	1	12	23.86	24.00	24.16	24.16		
5	QPSK	1	24	24.04	24.07	24.08	24.08		
5	QPSK	15	0	22.93	23.12	23.13	23.13	24.7	
5	QPSK	12	7	23.11	23.19	23.19	23.19		
5	QPSK	12	13	23.13	23.23	23.27	23.27		
5	QPSK	24	0	23.11	23.13	23.29	23.29	24.7	
5	HQAM	1	0	23.18	23.27	23.41	23.41		
5	HQAM	1	12	23.16	23.46	23.27	23.27		
5	HQAM	1	24	23.28	23.40	23.44	23.44	23.7	
5	HQAM	15	0	21.98	22.00	22.25	22.25		
5	HQAM	15	7	22.05	22.14	22.36	22.36		
5	HQAM	12	13	22.16	22.33	22.33	22.33	23.7	
5	HQAM	25	0	22.05	22.21	22.13	22.13		
5	HQAM	1	0	22.46	22.19	22.29	22.29		
5	HQAM	1	12	22.83	22.82	21.70	21.70	23.7	
5	HQAM	1	24	22.24	22.41	21.81	21.81		
5	HQAM	12	0	21.04	21.18	20.70	20.70		
5	HQAM	12	7	21.10	21.25	20.70	20.70	22.7	
5	HQAM	12	13	21.11	21.22	20.84	20.84		
5	HQAM	1	0	21.09	21.21	20.70	20.70		
5	SRQAM	1	0	19.87	19.58	19.60	19.60	20.7	
5	SRQAM	1	12	19.69	19.64	19.72	19.72		
5	SRQAM	1	24	19.82	19.72	19.88	19.88		
5	SRQAM	12	0	19.80	19.44	19.59	19.59	20.7	
5	SRQAM	12	7	19.67	19.59	19.59	19.59		
5	SRQAM	12	13	19.81	19.72	19.71	19.71		
5	SRQAM	25	0	19.58	19.58	19.68	19.68		
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.88	23.94	24.12	24.12	25.7	
3	QPSK	1	6	23.81	24.00	24.10	24.10		
3	QPSK	1	14	24.03	24.06	24.05	24.05		
3	QPSK	8	0	22.05	23.15	23.13	23.13	24.7	
3	QPSK	8	4	23.07	23.18	23.25	23.25		
3	QPSK	8	7	23.09	23.24	23.29	23.29		
3	QPSK	15	0	23.12	23.12	23.23	23.23	24.7	
3	HQAM	1	0	23.19	23.27	23.46	23.46		
3	HQAM	1	8	23.08	23.46	23.29	23.29		
3	HQAM	1	14	23.05	23.36	23.42	23.42	23.7	
3	HQAM	8	0	22.03	21.99	22.27	22.27		
3	HQAM	8	4	22.03	22.18	22.22	22.22		
3	HQAM	8	7	22.18	22.28	22.38	22.38	23.7	
3	HQAM	15	0	22.14	22.12	22.18	22.18		
3	HQAM	1	0	22.38	22.11	22.28	22.28		
3	HQAM	1	6	21.09	22.30	21.70	21.70	23.7	
3	HQAM	1	14	22.20	22.38	21.81	21.81		
3	HQAM	8	0	21.08	21.18	20.70	20.70		
3	HQAM	23	4	21.15	21.21	20.70	20.70	22.7	
3	HQAM	8	7	21.08	21.28	20.88	20.88		
3	HQAM	15	0	21.06	21.23	20.70	20.70		
3	SRQAM	1	0	19.87	19.58	19.67	19.67	20.7	
3	SRQAM	1	8	19.82	19.83	19.72	19.72		
3	SRQAM	1	14	19.84	19.77				



Band 4_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power High Ch. Freq	Power Mid Ch. Freq	Power Low Ch. Freq	Power High Ch. Freq	Power Mid Ch. Freq	Time-up (ms)
Channel										
Frequency (MHz)										
20	QPSK	1	0	2421	2421	2421	2421	2421	2421	25.7
20	QPSK	1	49	2424	2422	2422	2424	2418	2418	25.7
20	QPSK	1	99	2427	2427	2427	2427	2429	2429	25.7
20	QPSK	64	0	2332	2332	2332	2332	2333	2333	24.7
20	QPSK	50	24	2344	2337	2337	2344	2332	2332	24.7
20	QPSK	50	50	2338	2340	2340	2338	2334	2334	24.7
20	QPSK	100	0	2338	2341	2341	2338	2331	2331	24.7
20	HQAM	1	0	2355	2358	2358	2355	2356	2356	24.7
20	HQAM	1	49	2352	2360	2360	2352	2357	2357	24.7
20	HQAM	1	99	2364	2353	2353	2364	2355	2355	24.7
20	HQAM	50	0	2237	2241	2241	2237	2237	2237	23.7
20	HQAM	50	24	2245	2238	2238	2245	2235	2235	23.7
20	HQAM	50	50	2241	2242	2242	2241	2235	2235	23.7
20	HQAM	100	0	2237	2237	2237	2237	2228	2228	23.7
20	HQAM	1	0	2176	2181	2181	2176	2184	2184	22.7
20	HQAM	1	49	2240	2239	2239	2240	2238	2238	22.7
20	HQAM	1	99	2245	2221	2221	2245	2234	2234	22.7
20	HQAM	50	0	2112	2143	2143	2112	2138	2138	22.7
20	HQAM	50	24	2144	2122	2122	2144	2132	2132	22.7
20	HQAM	50	50	2141	2126	2126	2141	2138	2138	22.7
20	HQAM	100	0	2137	2128	2128	2137	2125	2125	22.7
20	SSBQAM	1	0	1970	1986	1986	1970	1985	1985	20.7
20	SSBQAM	1	49	1986	1972	1972	1986	1980	1980	20.7
20	SSBQAM	1	99	1989	1984	1984	1989	1983	1983	20.7
20	SSBQAM	50	0	1986	1972	1972	1986	1971	1971	20.7
20	SSBQAM	50	24	1975	1975	1975	1975	1981	1981	20.7
20	SSBQAM	50	50	1981	1981	1981	1981	1988	1988	20.7
20	SSBQAM	100	0	1979	1972	1972	1979	1987	1987	20.7
Channel										
Frequency (MHz)										
15	QPSK	1	0	2415	2431	2431	2415	2422	2422	25.7
15	QPSK	1	49	2415	2411	2411	2415	2412	2412	25.7
15	QPSK	1	74	2421	2426	2426	2421	2429	2429	25.7
15	QPSK	36	0	2330	2335	2335	2330	2325	2325	24.7
15	QPSK	36	20	2343	2330	2330	2343	2322	2322	24.7
15	QPSK	36	39	2337	2335	2335	2337	2324	2324	24.7
15	QPSK	75	0	2339	2339	2339	2339	2326	2326	24.7
15	HQAM	1	0	2359	2358	2358	2359	2345	2345	24.7
15	HQAM	1	74	2358	2344	2344	2358	2345	2345	24.7
15	HQAM	36	0	2237	2238	2238	2237	2235	2235	23.7
15	HQAM	36	20	2238	2230	2230	2238	2224	2224	23.7
15	HQAM	36	39	2234	2236	2236	2234	2233	2233	23.7
15	HQAM	75	0	2233	2231	2231	2233	2216	2216	23.7
15	HQAM	1	0	2172	2242	2242	2172	2188	2188	23.7
15	HQAM	1	49	2247	2233	2233	2247	2238	2238	23.7
15	HQAM	1	74	2242	2212	2212	2242	2221	2221	23.7
15	HQAM	36	0	2111	2142	2142	2111	2130	2130	22.7
15	HQAM	36	20	2144	2119	2119	2144	2131	2131	22.7
15	HQAM	36	39	2140	2036	2036	2140	2130	2130	22.7
15	HQAM	75	0	2131	2117	2117	2131	2126	2126	22.7
15	SSBQAM	1	0	1970	1983	1983	1970	1983	1983	20.7
15	SSBQAM	1	37	1986	1985	1985	1986	1986	1986	20.7
15	SSBQAM	36	0	1983	1983	1983	1983	1983	1983	20.7
15	SSBQAM	36	20	1987	1972	1972	1987	1981	1981	20.7
15	SSBQAM	36	39	1977	1975	1975	1977	1980	1980	20.7
15	SSBQAM	75	0	1979	1989	1989	1979	1981	1981	20.7
Channel										
Frequency (MHz)										
10	QPSK	1	0	2420	2426	2426	2420	2424	2424	25.7
10	QPSK	1	25	2418	2421	2421	2418	2414	2414	25.7
10	QPSK	1	49	2422	2418	2418	2422	2424	2424	25.7
10	QPSK	25	0	2328	2332	2332	2328	2330	2330	24.7
10	QPSK	25	12	2342	2332	2332	2342	2329	2329	24.7
10	QPSK	25	25	2333	2332	2332	2333	2324	2324	24.7
10	QPSK	50	0	2333	2332	2332	2333	2324	2324	24.7
10	HQAM	1	0	2359	2356	2356	2359	2352	2352	24.7
10	HQAM	1	25	2348	2359	2359	2348	2356	2356	24.7
10	HQAM	1	49	2350	2352	2352	2350	2353	2353	24.7
10	HQAM	25	0	2234	2234	2234	2234	2229	2229	23.7
10	HQAM	25	12	2240	2238	2238	2240	2220	2220	23.7
10	HQAM	25	25	2238	2234	2234	2238	2229	2229	23.7
10	HQAM	50	0	2231	2237	2237	2231	2222	2222	23.7
10	HQAM	1	0	2171	2251	2251	2171	2191	2191	22.7
10	HQAM	1	25	2245	2230	2230	2245	2230	2230	22.7
10	HQAM	1	49	2243	2214	2214	2243	2245	2245	22.7
10	HQAM	25	0	2184	2138	2138	2184	2180	2180	22.7
10	HQAM	25	12	2141	2118	2118	2141	2127	2127	22.7
10	HQAM	25	25	2132	2165	2165	2132	2138	2138	22.7
10	HQAM	50	0	2133	2118	2118	2133	2129	2129	22.7
10	SSBQAM	1	0	1970	1987	1987	1970	1977	1977	20.7
10	SSBQAM	1	25	1952	1971	1971	1952	1961	1961	20.7
10	SSBQAM	1	49	1979	1990	1990	1979	1987	1987	20.7
10	SSBQAM	25	0	1985	1984	1984	1985	1987	1987	20.7
10	SSBQAM	25	12	1975	1972	1972	1975	1983	1983	20.7
10	SSBQAM	25	25	1974	1975	1975	1974	1985	1985	20.7
10	SSBQAM	50	0	1973	1986	1986	1973	1984	1984	20.7
Channel										
Frequency (MHz)										
5	QPSK	1	0	2413	2422	2422	2413	2416	2416	25.7
5	QPSK	1	12	2421	2414	2414	2421	2416	2416	25.7
5	QPSK	1	24	2423	2420	2420	2423	2419	2419	25.7
5	QPSK	15	0	2322	2338	2338	2322	2325	2325	24.7
5	QPSK	12	7	2342	2327	2327	2342	2322	2322	24.7
5	QPSK	12	15	2328	2333	2333	2328	2324	2324	24.7
5	QPSK	24	0	2329	2335	2335	2329	2323	2323	24.7
5	HQAM	1	0	2347	2348	2348	2347	2350	2350	24.7
5	HQAM	1	12	2345	2352	2352	2345	2353	2353	24.7
5	HQAM	1	24	2356	2345	2345	2356	2348	2348	24.7
5	HQAM	12	0	2234	2234	2234	2234	2228	2228	23.7
5	HQAM	12	7	2238	2230	2230	2238	2221	2221	23.7
5	HQAM	12	15	2234	2235	2235	2234	2232	2232	23.7
5	HQAM	25	0	2236	2234	2234	2236	2221	2221	23.7
5	HQAM	1	0	2170	2244	2244	2170	2186	2186	22.7
5	HQAM	1	12	2241	2232	2232	2241	2233	2233	22.7
5	HQAM	1	24	2245	2213	2213	2245	2230	2230	22.7
5	HQAM	12	7	2137	2116	2116	2137	2130	2130	22.7
5	HQAM	12	15	2111	2160	2160	2111	2121	2121	22.7
5	HQAM	25	0	2127	2122	2122	2127	2122	2122	22.7
5	SSBQAM	1	0	1967	1986	1986	1967	1977	1977	20.7
5	SSBQAM	1	12	1986	1972	1972	1986	1984	1984	20.7
5	SSBQAM	1	24	1988	1980	1980	1988	1986	1986	20.7
5	SSBQAM	12	0	1958	1959	1959	1958	1971	1971	20.7
5	SSBQAM	12	7	1968	1973	1973	1968	1984	1984	20.7
5	SSBQAM	12	15	1979	1976	1976	1979	1982	1982	20.7
5	SSBQAM	25	0	1969	1984	1984	1969	1986	1986	20.7
Channel										
Frequency (MHz)										
3	QPSK	1								



Band 5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up time (min)		
Channel									
Frequency (MHz)									
ISD									
10	QPSK	1	0	2448	2454	2460	25.7		
10	QPSK	1	25	2448	2452	2456			
10	QPSK	1	49	2458	2448	2443			
10	QPSK	25	0	2358	2364	2370	24.7		
10	QPSK	25	12	2369	2365	2362			
10	QPSK	25	25	2363	2367	2372			
10	QPSK	50	0	2307	2314	2320	24.7		
10	HQAM	1	0	2388	2389	2394			
10	HQAM	1	25	2390	2393	2391			
10	HQAM	1	49	2395	2390	2381	23.7		
10	HQAM	25	0	2257	2252	2259			
10	HQAM	25	12	2258	2254	2257			
10	HQAM	25	25	2264	2263	2266	23.7		
10	HQAM	50	0	2258	2252	2258			
10	HQAM	1	25	2252	2257	2252			
10	HQAM	1	49	2262	2261	2266	22.7		
10	HQAM	25	0	2162	2166	2164			
10	HQAM	25	12	2171	2169	2167			
10	HQAM	25	25	2166	2170	2177	20.7		
10	HQAM	50	0	2170	2166	2162			
10	SSBQAM	1	0	1940	1933	1932			
10	SSBQAM	1	25	1944	1945	1944	20.7		
10	SSBQAM	1	49	1932	1948	1937			
10	SSBQAM	25	0	1941	1941	1943			
10	SSBQAM	25	12	1944	1939	1939	20.7		
10	SSBQAM	25	25	1934	1938	1938			
10	SSBQAM	50	0	1944	1937	1938			
Channel									
Frequency (MHz)									
ISD									
5	QPSK	1	0	2454	2452	2448	25.7		
5	QPSK	1	25	2450	2453	2448			
5	QPSK	1	24	2446	2448	2448			
5	QPSK	12	0	2359	2370	2381	24.7		
5	QPSK	12	4	2368	2367	2355			
5	QPSK	12	13	2380	2385	2384			
5	QPSK	25	0	2363	2369	2355	24.7		
5	HQAM	1	0	2369	2365	2369			
5	HQAM	1	12	2369	2365	2383			
5	HQAM	1	24	2369	2361	2378	23.7		
5	HQAM	12	0	2264	2272	2261			
5	HQAM	12	7	2268	2269	2258			
5	HQAM	12	13	2261	2267	2257	23.7		
5	HQAM	25	0	2269	2271	2258			
5	HQAM	1	0	2261	2260	2262			
5	HQAM	1	24	2262	2266	2267	22.7		
5	HQAM	1	24	2262	2266	2262			
5	HQAM	12	0	2169	2175	2167			
5	HQAM	12	7	2173	2175	2141	20.7		
5	HQAM	12	13	2168	2170	2122			
5	HQAM	25	0	2169	2174	2145			
5	SSBQAM	1	0	1933	1948	1944	20.7		
5	SSBQAM	1	12	1940	1941	1941			
5	SSBQAM	1	24	1937	1946	1934			
5	SSBQAM	12	0	1935	1932	1943	20.7		
5	SSBQAM	12	7	1937	1928	1930			
5	SSBQAM	12	13	1933	1938	1938			
5	SSBQAM	25	0	1934	1937	1931			
Channel									
Frequency (MHz)									
ISD									
3	QPSK	1	0	2380	2387	2385	25.7		
3	QPSK	1	6	2387	2394	2383			
3	QPSK	1	11	2378	2383	2371			
3	QPSK	8	0	2289	2293	2287	24.7		
3	QPSK	8	4	2295	2301	2287			
3	QPSK	8	6	2298	2293	2283			
3	QPSK	16	0	2290	2297	2286	24.7		
3	HQAM	1	0	2311	2317	2311			
3	HQAM	1	6	2315	2320	2313			
3	HQAM	1	14	2311	2318	2303	23.7		
3	HQAM	8	4	2306	2300	2304			
3	HQAM	8	4	2308	2206	2106			
3	HQAM	8	7	2156	2198	2187	23.7		
3	HQAM	16	0	2106	2201	2180			
3	HQAM	1	0	2303	2215	2190			
3	HQAM	1	6	2313	2221	2171	22.7		
3	HQAM	1	14	2302	2209	2170			
3	HQAM	8	0	2190	2180	2078			
3	HQAM	8	4	2194	2103	2178	22.7		
3	HQAM	8	7	2189	2098	2171			
3	HQAM	16	0	2192	2098	2172			
3	SSBQAM	1	0	1945	1945	1946	20.7		
3	SSBQAM	1	6	1938	1939	1944			
3	SSBQAM	1	14	1948	1947	1929			
3	SSBQAM	8	0	1938	1941	1939	20.7		
3	SSBQAM	8	4	1935	1919	1927			
3	SSBQAM	8	7	1933	1933	1920			
3	SSBQAM	16	0	1938	1938	1931			
Channel									
Frequency (MHz)									
ISD									
1.4	QPSK	1	0	2311	2319	2320	25.7		
1.4	QPSK	1	3	2380	2386	2376			
1.4	QPSK	1	5	2370	2380	2371			
1.4	QPSK	3	0	2389	2380	2375	24.7		
1.4	QPSK	3	1	2383	2380	2380			
1.4	QPSK	3	3	2378	2381	2372			
1.4	QPSK	6	0	2263	2291	2277	24.7		
1.4	HQAM	1	0	2305	2311	2307			
1.4	HQAM	1	5	2314	2321	2312			
1.4	HQAM	1	5	2307	2312	2300	24.7		
1.4	HQAM	3	0	2289	2289	2282			
1.4	HQAM	3	1	2293	2300	2286			
1.4	HQAM	3	1	2283	2291	2278	23.7		
1.4	HQAM	6	0	2191	2199	2186			
1.4	HQAM	1	0	2108	2204	2172			
1.4	HQAM	1	3	2210	2215	2178	23.7		
1.4	HQAM	1	6	2200	2204	2172			
1.4	HQAM	3	0	2199	2197	2179			
1.4	HQAM	3	1	2194	2200	2173	22.7		
1.4	HQAM	3	1	2189	2183	2173			
1.4	HQAM	6	0	2078	2084	2071			
1.4	SSBQAM	1	0	1940	1948	1947	20.7		
1.4	SSBQAM	1	3	1937	1941	1941			
1.4	SSBQAM	1	5	1947	1947	1927			
1.4	SSBQAM	3	0	1931	1939	1938	20.7		
1.4	SSBQAM	3	1	1944	1938	1938			
1.4	SSBQAM	3	1	1927	1938	1923			
1.4	SSBQAM	6	0	1938	1938	1930			



Band 7_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up time (min)			
Channel				2560	2608	2656				
Frequency (MHz)				2560	2608	2656				
20	QPSK	1	0	2460	2484	2484	25.7			
20	QPSK	1	49	2467	2475	2470				
20	QPSK	1	99	2471	2479	2473				
20	QPSK	60	0	2378	2378	2378	24.7			
20	QPSK	50	24	2388	2384	2380				
20	QPSK	50	50	2389	2394	2389				
20	HQAM	100	0	2388	2384	2378	24.7			
20	HQAM	1	0	2388	2401	2388				
20	HQAM	1	49	2405	2407	2406				
20	HQAM	50	0	2405	2415	2403	23.7			
20	HQAM	50	0	2277	2281	2277				
20	HQAM	50	24	2286	2286	2283				
20	HQAM	50	50	2293	2298	2292	23.7			
20	HQAM	100	0	2288	2283	2278				
20	HQAM	1	0	2281	2285	2281				
20	HQAM	1	49	2293	2295	2277	22.7			
20	HQAM	1	99	2300	2306	2278				
20	HQAM	50	0	2188	2184	2178				
20	HQAM	50	24	2193	2189	2177	22.7			
20	HQAM	50	50	2193	2196	2187				
20	HQAM	100	0	2192	2184	2182				
20	HQAM	1	0	2022	2038	1988	20.7			
20	HQAM	1	49	2033	2038	2037				
20	HQAM	1	99	2034	2038	2011				
20	HQAM	50	0	2003	2001	1994	20.7			
20	HQAM	50	24	2012	2007	1995				
20	HQAM	50	50	2012	2000	2003				
20	HQAM	100	0	2013	1999	1993	20.7			
Channel				2575.5	2610	2635.5		Turn-up time		
Frequency (MHz)				2575.5	2635.5	2635.5				
15	QPSK	1	0	2454	2459	2458	25.7			
15	QPSK	1	49	2458	2472	2484				
15	QPSK	1	74	2463	2470	2463				
15	QPSK	30	0	2372	2376	2385	24.7			
15	QPSK	30	20	2378	2384	2371				
15	QPSK	30	39	2384	2385	2385				
15	QPSK	75	0	2378	2379	2374	24.7			
15	HQAM	1	0	2395	2398	2392				
15	HQAM	1	39	2400	2405	2398				
15	HQAM	1	74	2398	2407	2393	23.7			
15	HQAM	30	0	2279	2279	2274				
15	HQAM	30	20	2283	2279	2282				
15	HQAM	30	39	2286	2299	2282	23.7			
15	HQAM	75	0	2278	2278	2272				
15	HQAM	1	0	2277	2284	2285				
15	HQAM	1	74	2285	2286	2288	22.7			
15	HQAM	1	74	2285	2324	2289				
15	HQAM	30	0	2180	2183	2175				
15	HQAM	30	20	2180	2188	2177	22.7			
15	HQAM	30	39	2190	2191	2185				
15	HQAM	75	0	2184	2179	2178				
15	HQAM	1	0	2020	2023	1988	20.7			
15	HQAM	1	39	2030	2035	2035				
15	HQAM	1	74	2031	2011	2005				
15	HQAM	30	0	1935	1935	1938	20.7			
15	HQAM	30	20	2007	1999	1985				
15	HQAM	30	39	2007	1996	2000				
15	HQAM	75	0	2008	1934	1935	20.7			
Channel				2090	2100	2160		Turn-up time		
Frequency (MHz)				2090	2160	2160				
10	QPSK	1	0	2458	2464	2457	25.7			
10	QPSK	1	25	2458	2470	2462				
10	QPSK	1	49	2462	2473	2471				
10	QPSK	25	0	2373	2386	2375	24.7			
10	QPSK	25	12	2381	2374	2380				
10	QPSK	25	25	2387	2388	2380				
10	QPSK	50	0	2376	2379	2375	24.7			
10	HQAM	1	0	2394	2401	2394				
10	HQAM	1	25	2398	2404	2399				
10	HQAM	1	49	2405	2407	2395	23.7			
10	HQAM	25	0	2276	2286	2275				
10	HQAM	25	12	2287	2276	2282				
10	HQAM	25	25	2285	2296	2287	23.7			
10	HQAM	50	0	2284	2280	2280				
10	HQAM	1	0	2274	2277	2284				
10	HQAM	1	25	2283	2295	2274	22.7			
10	HQAM	1	49	2295	2299	2292				
10	HQAM	25	0	2178	2174	2178				
10	HQAM	25	12	2185	2186	2170	22.7			
10	HQAM	25	25	2193	2189	2186				
10	HQAM	50	0	2184	2178	2172				
10	HQAM	1	0	2017	1998	1997	20.7			
10	HQAM	1	25	2023	2007	2001				
10	HQAM	1	49	2014	2010	2004				
10	HQAM	25	0	1993	2003	1994	20.7			
10	HQAM	25	12	2008	2000	1995				
10	HQAM	25	25	2010	1990	1997				
10	HQAM	50	0	2003	1999	1992	20.7			
Channel				2075	2100	2165		Turn-up time		
Frequency (MHz)				2075	2165	2165				
5	QPSK	1	0	2454	2452	2451	25.7			
5	QPSK	1	12	2459	2465	2467				
5	QPSK	1	24	2468	2472	2469				
5	QPSK	15	0	2370	2370	2371	24.7			
5	QPSK	12	7	2381	2374	2370				
5	QPSK	12	15	2383	2383	2380				
5	QPSK	25	0	2378	2384	2370	24.7			
5	HQAM	1	0	2394	2398	2397				
5	HQAM	1	12	2397	2405	2405				
5	HQAM	1	24	2400	2411	2403	23.7			
5	HQAM	15	0	2288	2271	2271				
5	HQAM	15	1	2281	2286	2281				
5	HQAM	12	13	2289	2293	2284	23.7			
5	HQAM	25	0	2286	2277	2273				
5	HQAM	1	0	2278	2277	2283				
5	HQAM	1	12	2284	2289	2273	22.7			
5	HQAM	11	24	2297	2305	2278				
5	HQAM	15	0	2178	2182	2174				
5	HQAM	12	7	2187	2186	2171	22.7			
5	HQAM	15	13	2184	2188	2187				
5	HQAM	25	0	2152	2175	2176				
5	HQAM	1	0	2016	2002	1993	20.7			
5	HQAM	1	12	2025	2000	2005				
5	HQAM	1	24	2018	2011	2003				
5	HQAM	12	0	2003	1998	1991	20.7			
5	HQAM	12	13	2009	1998	1999				
5	HQAM	22	0	2006	1992	1983				





Band 12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2464	2465	2466	25.7
10	QPSK	1	26	2459	2460	2461	
10	QPSK	1	49	2467	2463	2468	24.7
10	QPSK	25	12	2372	2374	2371	
10	QPSK	25	12	2378	2373	2372	24.7
10	QPSK	25	25	2377	2379	2380	
10	QPSK	50	0	2378	2371	2373	24.7
10	HQAM	1	0	2386	2385	2387	
10	HQAM	1	25	2387	2389	2401	23.7
10	HQAM	49	0	2408	2401	2404	
10	HQAM	25	0	2271	2273	2274	23.7
10	HQAM	25	12	2276	2273	2275	
10	HQAM	25	25	2272	2280	2277	23.7
10	HQAM	50	0	2275	2272	2274	
10	HQAM	1	0	2281	2280	2283	23.7
10	HQAM	1	25	2288	2282	2286	
10	HQAM	1	49	2286	2291	2294	22.7
10	HQAM	25	0	2178	2174	2176	
10	HQAM	25	12	2184	2177	2178	22.7
10	HQAM	25	25	2179	2181	2180	
10	HQAM	50	0	2182	2177	2177	20.7
10	HQAM	1	0	1942	1954	1955	
10	HQAM	1	25	1956	1957	1958	20.7
10	HQAM	49	0	1952	1948	1954	
10	HQAM	25	0	1952	1954	1955	20.7
10	HQAM	25	12	1946	1948	1945	
10	HQAM	25	25	1942	1947	1955	20.7
10	HQAM	50	0	1943	1951	1951	
Channel							
Frequency (MHz)							
5	QPSK	1	0	2465	2466	2468	25.7
5	QPSK	1	24	2465	2460	2460	
5	QPSK	1	24	2484	2465	2464	24.7
5	QPSK	12	0	2375	2373	2373	
5	QPSK	12	12	2378	2380	2370	24.7
5	QPSK	12	12	2370	2374	2372	
5	QPSK	25	0	2373	2371	2371	24.7
5	HQAM	1	0	2388	2389	2387	
5	HQAM	1	12	2401	2401	2389	23.7
5	HQAM	1	24	2402	2401	2387	
5	HQAM	12	0	2283	2278	2278	23.7
5	HQAM	12	7	2278	2280	2274	
5	HQAM	12	12	2275	2275	2275	23.7
5	HQAM	25	0	2278	2271	2270	
5	HQAM	1	0	2288	2285	2288	23.7
5	HQAM	1	24	2282	2283	2284	
5	HQAM	1	24	2286	2288	2282	22.7
5	HQAM	12	0	2188	2182	2182	
5	HQAM	12	7	2183	2183	2178	22.7
5	HQAM	12	12	2178	2180	2177	
5	HQAM	25	0	2178	2174	2174	20.7
5	HQAM	1	0	1948	1948	1948	
5	HQAM	1	12	1949	1949	1952	20.7
5	HQAM	1	24	1942	1942	1942	
5	HQAM	12	7	1951	1948	1942	20.7
5	HQAM	12	12	1948	1937	1954	
5	HQAM	25	0	1953	1949	1948	20.7
5	HQAM	1	0	2386	2386	2386	
Channel							
Frequency (MHz)							
3	QPSK	1	0	2382	2388	2386	25.7
3	QPSK	1	8	2382	2385	2383	
3	QPSK	1	14	2385	2380	2384	24.7
3	QPSK	8	0	2289	2297	2284	
3	QPSK	8	4	2288	2300	2287	24.7
3	QPSK	16	0	2284	2297	2282	
3	QPSK	16	0	2286	2282	2282	24.7
3	HQAM	1	0	2308	2319	2302	
3	HQAM	1	8	2311	2311	2309	23.7
3	HQAM	1	14	2318	2322	2319	
3	HQAM	8	4	2288	2301	2300	23.7
3	HQAM	8	4	2289	2288	2284	
3	HQAM	8	7	2280	2286	2188	23.7
3	HQAM	16	0	2281	2282	2184	
3	HQAM	1	0	2221	2214	2214	22.7
3	HQAM	1	8	2224	2223	2220	
3	HQAM	1	14	2215	2216	2212	22.7
3	HQAM	8	0	2183	2183	2086	
3	HQAM	8	4	2188	2187	2184	22.7
3	HQAM	8	7	2089	2182	2089	
3	HQAM	16	0	2100	2095	2093	20.7
3	HQAM	1	0	1948	1948	1948	
3	HQAM	1	14	1948	1947	1948	20.7
3	HQAM	8	0	1948	1944	1945	
3	HQAM	8	4	1953	1948	1939	20.7
3	HQAM	8	7	1945	1937	1953	
3	HQAM	16	0	1951	1944	1945	20.7
3	HQAM	1	0	2387	2386	2383	
Channel							
Frequency (MHz)							
1.4	QPSK	1	0	2378	2374	2373	25.7
1.4	QPSK	1	3	2378	2380	2380	
1.4	QPSK	1	5	2372	2373	2371	24.7
1.4	QPSK	3	1	2384	2378	2379	
1.4	QPSK	3	3	2374	2378	2374	24.7
1.4	QPSK	6	0	2283	2284	2281	
1.4	HQAM	1	0	2308	2307	2309	24.7
1.4	HQAM	1	5	2312	2314	2310	
1.4	HQAM	1	5	2308	2305	2303	23.7
1.4	HQAM	3	0	2289	2284	2288	
1.4	HQAM	3	1	2284	2286	2280	23.7
1.4	HQAM	3	1	2284	2283	2282	
1.4	HQAM	6	0	2188	2180	2186	23.7
1.4	HQAM	1	0	2201	2188	2189	
1.4	HQAM	1	3	2286	2289	2283	23.7
1.4	HQAM	1	6	2283	2282	2187	
1.4	HQAM	3	0	2188	2184	2186	22.7
1.4	HQAM	6	0	2089	2088	2081	
1.4	HQAM	1	0	1938	1948	1942	20.7
1.4	HQAM	1	3	1947	1954	1956	
1.4	HQAM	1	5	1958	1957	1958	20.7
1.4	HQAM	3	0	1942	1945	1951	
1.4	HQAM	3	0	1958	1941	1938	20.7
1.4	HQAM	3	1	1939	1944	1952	
1.4	HQAM	6	0	1947	1948	1950	20.7
1.4	HQAM	6	0	1947	1948	1950	



Band 13_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Time-up limit (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.98			25.2
10	QPSK	1	25	24.02			
10	QPSK	1	49	24.10			
10	QPSK	25	0	23.16			24.2
10	QPSK	25	12	23.17			
10	QPSK	25	25	23.19			
10	QPSK	50	0	23.18			24.2
10	HQAM	1	0	23.38			
10	HQAM	1	25	23.37			
10	HQAM	1	49	23.40			23.2
10	HQAM	25	0	22.17			
10	HQAM	25	12	22.20			
10	HQAM	25	25	22.22			23.2
10	HQAM	50	0	22.19			
10	HQAM	1	0	22.21			
10	HQAM	1	25	22.32			22.2
10	HQAM	1	49	22.34			
10	HQAM	25	0	21.17			
10	HQAM	25	12	21.24			22.2
10	HQAM	25	25	21.23			
10	HQAM	50	0	21.23			
10	256QAM	1	0	18.81			20.2
10	256QAM	1	25	18.97			
10	256QAM	1	49	18.91			
10	256QAM	25	0	18.78			20.2
10	256QAM	25	12	18.86			
10	256QAM	25	25	18.89			
10	256QAM	50	0	18.84			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.93	23.98	23.74	25.2
5	QPSK	1	24	24.04	24.07	23.77	
5	QPSK	1	24	24.07	24.08	23.83	
5	QPSK	12	0	23.10	23.13	22.85	24.2
5	QPSK	12	12	23.18	23.15	22.93	
5	QPSK	12	12	23.19	23.21	22.89	
5	QPSK	25	0	23.18	23.14	22.90	24.2
5	HQAM	1	0	23.31	23.29	23.01	
5	HQAM	1	12	23.29	23.33	23.04	
5	HQAM	1	24	23.37	23.38	23.04	23.2
5	HQAM	12	0	22.20	22.17	21.92	
5	HQAM	12	7	22.20	22.17	21.95	
5	HQAM	12	13	22.21	22.22	21.94	23.2
5	HQAM	25	0	22.23	22.16	21.92	
5	HQAM	1	0	22.19	22.28	21.94	
5	HQAM	1	24	22.25	22.20	22.01	22.2
5	HQAM	1	24	22.29	22.32	22.02	
5	HQAM	12	0	21.22	21.23	20.96	
5	HQAM	12	7	21.28	21.21	20.98	22.2
5	HQAM	12	13	21.25	21.26	20.95	
5	HQAM	25	0	21.36	21.17	20.96	
5	256QAM	1	0	18.55	18.57	18.59	20.2
5	256QAM	1	12	18.93	18.96	18.94	
5	256QAM	1	24	18.96	18.99	18.96	
5	256QAM	12	7	18.83	18.78	18.79	20.2
5	256QAM	12	13	18.82	18.84	18.79	
5	256QAM	25	0	18.77	18.77	18.74	



Band 14_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2459	2459		25.7
10	QPSK	1	49	2453	2448		
10	QPSK	1	49	2448	2448		
10	QPSK	25	0	2355	2355		24.7
10	QPSK	25	12	2357	2357		
10	QPSK	25	25	2353	2353		
10	QPSK	50	0	2355	2355		24.7
10	HQAM	1	0	2395	2391		
10	HQAM	1	25	2391	2386		
10	HQAM	25	0	2254	2254		23.7
10	HQAM	25	12	2257	2257		
10	HQAM	25	25	2254	2254		
10	HQAM	50	0	2255	2255		23.7
10	HQAM	1	0	2279	2279		
10	HQAM	1	25	2254	2254		
10	HQAM	1	49	2279	2279		22.7
10	HQAM	25	0	2154	2154		
10	HQAM	25	12	2181	2181		
10	HQAM	25	25	2183	2183		20.7
10	HQAM	50	0	2159	2159		
10	256QAM	1	0	1953	1953		
10	256QAM	1	25	1957	1957		20.7
10	256QAM	25	0	1929	1929		
10	256QAM	25	12	1954	1954		
10	256QAM	25	25	1953	1953		20.7
10	256QAM	50	0	1925	1925		
Channel							
Frequency (MHz)							
5	QPSK	1	0	2448	2448	2445	25.7
5	QPSK	1	12	2456	2453	2450	
5	QPSK	1	24	2455	2455	2448	
5	QPSK	12	0	2352	2354	2351	24.7
5	QPSK	12	12	2358	2358	2350	
5	QPSK	12	12	2381	2380	2356	
5	QPSK	25	0	2359	2354	2352	24.7
5	HQAM	1	0	2352	2352	2379	
5	HQAM	1	12	2350	2352	2386	
5	HQAM	1	24	2358	2358	2379	23.7
5	HQAM	12	0	2284	2281	2253	
5	HQAM	12	7	2258	2259	2288	
5	HQAM	12	13	2255	2252	2256	23.7
5	HQAM	25	0	2252	2256	2258	
5	HQAM	1	0	2281	2277	2277	
5	HQAM	1	12	2283	2285	2284	22.7
5	HQAM	1	24	2282	2282	2288	
5	HQAM	12	0	2171	2160	2158	
5	HQAM	12	7	2169	2170	2168	22.7
5	HQAM	12	13	2183	2186	2181	
5	HQAM	25	0	2185	2181	2154	
5	256QAM	1	0	1947	1949	1953	20.7
5	256QAM	1	12	1931	1933	1928	
5	256QAM	1	24	1946	1946	1942	
5	256QAM	12	0	1919	1927	1927	20.7
5	256QAM	12	7	1928	1928	1934	
5	256QAM	12	13	1933	1930	1933	
5	256QAM	25	0	1921	1919	1915	



Band 17_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (min)	
Channel				700	710	711		
Frequency (MHz)								
10	QPSK	1	0	2458	2458	2458	25.7	
10	QPSK	1	25	2458	2464	2460		
10	QPSK	1	49	2462	2466	2462		
10	QPSK	25	0	2384	2386	2386	24.7	
10	QPSK	25	12	2378	2373	2371		
10	QPSK	25	25	2380	2379	2380		
10	QPSK	50	0	2309	2312	2309	24.7	
10	HQAM	1	0	2390	2392	2391		
10	HQAM	1	25	2401	2401	2400		
10	HQAM	1	49	2401	2402	2402	23.7	
10	HQAM	25	0	2265	2264	2264		
10	HQAM	25	12	2278	2271	2271		
10	HQAM	25	25	2277	2281	2276	23.7	
10	HQAM	50	0	2269	2270	2267		
10	HQAM	50	0	2286	2276	2274		
10	HQAM	1	25	2252	2257	2250	22.7	
10	HQAM	1	49	2252	2258	2263		
10	HQAM	25	0	2167	2167	2167		
10	HQAM	25	12	2184	2178	2178	22.7	
10	HQAM	25	25	2180	2182	2182		
10	HQAM	50	0	2170	2171	2171		
10	256QAM	1	0	1944	1937	1933	20.7	
10	256QAM	1	25	1950	1948	1951		
10	256QAM	1	49	1958	1950	1958		
10	256QAM	25	0	1946	1944	1946	20.7	
10	256QAM	25	12	1956	1952	1943		
10	256QAM	25	25	1958	1954	1952		
10	256QAM	50	0	1948	1948	1948	20.7	
Channel				706.5	710	713.5		
Frequency (MHz)								
5	QPSK	1	0	2457	2456	2455	25.7	
5	QPSK	1	25	2460	2461	2463		
5	QPSK	1	24	2484	2461	2464		
5	QPSK	12	0	2387	2389	2386	24.7	
5	QPSK	12	13	2378	2374	2369		
5	QPSK	12	13	2377	2376	2373		
5	QPSK	25	0	2376	2376	2366	24.7	
5	HQAM	1	0	2391	2393	2391		
5	HQAM	1	12	2397	2403	2398		
5	HQAM	1	24	2408	2404	2401	23.7	
5	HQAM	12	7	2278	2274	2273		
5	HQAM	12	13	2278	2277	2274		
5	HQAM	25	0	2274	2275	2269	23.7	
5	HQAM	1	0	2289	2287	2288		
5	HQAM	1	24	2290	2296	2290		
5	HQAM	1	24	2294	2300	2293	22.7	
5	HQAM	12	0	2173	2177	2178		
5	HQAM	12	7	2181	2179	2173		
5	HQAM	12	13	2179	2185	2175	20.7	
5	HQAM	25	0	2179	2174	2170		
5	256QAM	1	0	1941	1929	1924		
5	256QAM	1	12	1949	1946	1944	20.7	
5	256QAM	1	24	1946	1950	1950		
5	256QAM	12	7	1958	1947	1940		
5	256QAM	12	13	1953	1954	1952	20.7	
5	256QAM	25	0	1937	1941	1942		



Band 25_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power High	Power Max	Power Min	Power Max	Power Min	Time-up (ms)
Channel				Ch1 Freq	Ch2 Freq	Ch3 Freq	Ch4 Freq	Ch5 Freq	Ch6 Freq	
Frequency (MHz)				1860	1860	1860	1860	1860	1860	
20	QPSK	1	0	2411	2408	2412	2409	2414	2411	25.7
20	QPSK	1	49	2434	2431	2435	2432	2437	2434	
20	QPSK	1	99	2459	2456	2460	2457	2462	2459	
20	QPSK	64	0	2314	2312	2316	2313	2318	2315	24.7
20	QPSK	50	24	2321	2319	2323	2320	2325	2322	
20	QPSK	50	50	2319	2317	2321	2318	2323	2320	
20	QPSK	100	0	2324	2322	2326	2323	2328	2325	
20	HQAM	1	0	2338	2334	2342	2338	2350	2346	24.7
20	HQAM	1	49	2339	2335	2343	2339	2351	2347	
20	HQAM	1	99	2350	2346	2354	2350	2362	2358	
20	HQAM	50	0	2211	2209	2213	2210	2215	2212	23.7
20	HQAM	50	25	2223	2221	2225	2222	2227	2224	
20	HQAM	50	50	2225	2223	2227	2224	2229	2226	
20	HQAM	100	0	2217	2215	2219	2216	2221	2218	
20	HQAM	100	50	2218	2216	2220	2217	2222	2219	
20	HQAM	1	49	2221	2217	2225	2221	2233	2229	23.7
20	HQAM	1	99	2227	2223	2231	2227	2239	2235	
20	HQAM	50	0	2114	2112	2116	2113	2118	2115	22.7
20	HQAM	50	24	2123	2121	2125	2122	2127	2124	
20	HQAM	50	50	2123	2121	2125	2122	2127	2124	
20	HQAM	100	0	2122	2120	2124	2121	2126	2123	
20	SSBQAM	1	0	1985	1984	1988	1987	1992	1991	20.7
20	SSBQAM	1	49	1987	1986	1990	1989	1994	1993	
20	SSBQAM	1	99	1995	1994	1998	1997	2002	2001	
20	SSBQAM	50	0	1958	1958	1962	1962	1967	1967	
20	SSBQAM	50	25	1971	1971	1975	1975	1980	1980	
20	SSBQAM	50	50	1974	1974	1978	1978	1983	1983	
20	SSBQAM	100	0	1964	1972	1977	1977	1982	1982	
Channel				2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	Time-up (ms)
Frequency (MHz)				1897.5	1860	1860	1860	1860	1860	
15	QPSK	1	0	2408	2399	2418	2418	2427	2427	25.7
15	QPSK	1	49	2401	2401	2410	2410	2419	2419	
15	QPSK	1	74	2400	2411	2409	2411	2420	2420	
15	QPSK	30	0	2310	2315	2317	2317	2322	2322	24.7
15	QPSK	30	25	2314	2319	2320	2320	2325	2325	
15	QPSK	30	39	2318	2317	2322	2322	2327	2327	
15	QPSK	75	0	2315	2319	2328	2328	2333	2333	
15	HQAM	1	0	2331	2334	2343	2343	2352	2352	24.7
15	HQAM	1	39	2330	2340	2351	2351	2360	2360	
15	HQAM	1	74	2341	2348	2359	2359	2368	2368	
15	HQAM	30	0	2238	2237	2242	2242	2247	2247	23.7
15	HQAM	30	20	2223	2225	2232	2232	2239	2239	
15	HQAM	30	39	2225	2226	2233	2233	2240	2240	
15	HQAM	75	0	2214	2228	2235	2235	2242	2242	
15	HQAM	1	0	2218	2221	2229	2229	2236	2236	23.7
15	HQAM	1	49	2218	2223	2231	2231	2238	2238	
15	HQAM	1	74	2223	2228	2236	2236	2243	2243	
15	HQAM	30	0	2107	2115	2103	2103	2110	2110	22.7
15	HQAM	30	20	2118	2132	2113	2113	2120	2120	
15	HQAM	30	39	2122	2125	2125	2125	2132	2132	
15	HQAM	75	0	2116	2125	2110	2110	2117	2117	
15	SSBQAM	1	0	1955	1944	1978	1978	1987	1987	20.7
15	SSBQAM	1	39	1963	1973	1988	1988	1997	1997	
15	SSBQAM	1	74	1975	1985	1999	1999	2008	2008	
15	SSBQAM	30	0	1948	1950	1953	1953	1956	1956	
15	SSBQAM	30	20	1978	1955	1989	1989	1992	1992	
15	SSBQAM	30	39	1971	1970	1973	1973	1976	1976	
15	SSBQAM	75	0	1952	1972	1972	1972	1975	1975	
Channel				2050	2050	2050	2050	2050	2050	Time-up (ms)
Frequency (MHz)				1860	1860	1860	1860	1860	1860	
10	QPSK	1	0	2405	2396	2417	2417	2426	2426	25.7
10	QPSK	1	25	2397	2414	2413	2413	2422	2422	
10	QPSK	1	49	2408	2412	2406	2406	2415	2415	
10	QPSK	1	74	2400	2411	2409	2411	2420	2420	
10	QPSK	25	0	2304	2322	2326	2326	2331	2331	24.7
10	QPSK	25	12	2320	2320	2328	2328	2333	2333	
10	QPSK	25	25	2319	2319	2324	2324	2329	2329	
10	QPSK	50	0	2316	2317	2330	2330	2335	2335	
10	HQAM	1	0	2328	2328	2344	2344	2350	2350	24.7
10	HQAM	1	25	2331	2338	2351	2351	2357	2357	
10	HQAM	1	49	2342	2351	2338	2338	2344	2344	
10	HQAM	25	0	2230	2217	2231	2231	2236	2236	23.7
10	HQAM	25	12	2223	2228	2225	2225	2230	2230	
10	HQAM	25	25	2217	2227	2232	2232	2237	2237	
10	HQAM	50	0	2215	2220	2225	2225	2230	2230	
10	HQAM	1	0	2217	2231	2214	2214	2219	2219	23.7
10	HQAM	1	25	2219	2225	2197	2197	2203	2203	
10	HQAM	1	49	2225	2242	2210	2210	2216	2216	
10	HQAM	25	0	2188	2115	2092	2092	2119	2119	22.7
10	HQAM	25	12	2121	2130	2118	2118	2127	2127	
10	HQAM	25	25	2123	2128	2107	2107	2116	2116	
10	HQAM	50	0	2117	2136	2047	2047	2056	2056	
10	SSBQAM	1	0	1955	1944	1978	1978	1987	1987	20.7
10	SSBQAM	1	25	1954	1973	1975	1975	1984	1984	
10	SSBQAM	1	49	1964	1984	1991	1991	2000	2000	
10	SSBQAM	25	0	1947	1958	1989	1989	1992	1992	
10	SSBQAM	25	12	1970	1951	1952	1952	1955	1955	
10	SSBQAM	25	25	1970	1973	1971	1971	1974	1974	
10	SSBQAM	50	0	1957	1955	1977	1977	1980	1980	
Channel				2055	2050	2055	2055	2055	2055	Time-up (ms)
Frequency (MHz)				1860	1860	1860	1860	1860	1860	
5	QPSK	1	0	2409	2400	2415	2415	2424	2424	25.7
5	QPSK	1	12	2396	2411	2413	2413	2422	2422	
5	QPSK	1	24	2405	2415	2411	2411	2420	2420	
5	QPSK	1	49	2408	2412	2406	2406	2415	2415	
5	QPSK	12	7	2321	2324	2328	2328	2333	2333	24.7
5	QPSK	12	13	2314	2323	2334	2334	2343	2343	
5	QPSK	24	0	2314	2319	2328	2328	2333	2333	
5	HQAM	1	0	2328	2332	2351	2351	2356	2356	24.7
5	HQAM	1	12	2333	2344	2356	2356	2361	2361	
5	HQAM	1	24	2349	2348	2337	2337	2346	2346	
5	HQAM	12	0	2202	2211	2224	2224	2233	2233	23.7
5	HQAM	12	13	2216	2223	2236	2236	2245	2245	
5	HQAM	12	13	2224	2223	2230	2230	2237	2237	
5	HQAM	25	0	2215	2220	2225	2225	2230	2230	
5	HQAM	1	0	2211	2220	2210	2210	2219	2219	23.7
5	HQAM	1	12	2213	2228	2187	2187	2196	2196	
5	HQAM	1	24	2218	2236	2170	2170	2179	2179	
5	HQAM	12	0	2109	2114	2095	2095	2104	2104	22.7
5	HQAM	12	7	2113	2128	2119	2119	2128	2128	
5	HQAM	12	13	2114	2123	2104	2104	2113	2113	
5	HQAM	25	0	2118	2125	2044	2044	2053	2053	
5	SSBQAM	1	0	1958	1939	1978	1978	1987	1987	20.7
5	SSBQAM	1	12	1948	1972	1989	1989	1992	1992	
5	SSBQAM	1	24	1930	1977	1939	1939	1948	1948	
5	SSBQAM	12	0	1946	1954	1986	1986	1995	1995	
5	SSBQAM	12	13	1967	1954	1970	1970	1979	1979	
5	SSBQAM	12	13	1974	1969	1978	1978	1987	1987	
5	SSBQAM	25	0	1955	1988	1970	1970	1979	1979	
Channel				2057	2050	2057	2057	2057	2057	Time-up (ms)
Frequency (MHz)				1860	1860	1860	1860	1860	1860	
3	QPSK	1	0	2401	2397	2413	2413	2424	2424	25.7
3	QPSK	1	6	2394	2412	2418	2418	2429	2429	
3	QPSK	1	14	2402	2418	2405	2405	2416	2416	
3	QPSK	6	0	2305	2317	2324	2324	2331	2331	24.7
3	QPSK	6	4	2317	2328	2324	2324	2331	2331	
3	QPSK	6	7	2315	2322	2335	2335	2342	2342	
3	QPSK	12	0	2326	2344	2356	2356	2361	2361	24.7
3	HQAM	1	0	2332	2334	2350	2350	2356	2356	
3	HQAM	1	6	2329	2338	2352	2352	2358	2358	
3	HQAM	1	14	2345	2348	2342	2342	2349	2349	



Band 26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)	Time-down (ms)	
Channel									
Frequency (MHz)				811.5	811.5	811.5			
15	QPSK	1	0	2458	2458	2458			25.7
15	QPSK	3	37	2449	2448	2448			
15	QPSK	1	74	2449	2448	2438			
15	QPSK	3	0	2384	2382	2381			
15	QPSK	3	20	2389	2387	2357			24.7
15	QPSK	3	39	2354	2353	2359			
15	QPSK	7	0	2327	2326	2328			
15	QPSK	1	0	2388	2377	2385			24.7
15	HQAM	1	37	2379	2378	2378			
15	HQAM	1	74	2377	2371	2366			
15	HQAM	3	0	2263	2252	2259			23.7
15	HQAM	3	20	2265	2262	2256			
15	HQAM	3	39	2265	2262	2256			
15	HQAM	7	0	2258	2255	2261			
15	HQAM	1	0	2375	2367	2363			23.7
15	HQAM	1	37	2271	2274	2258			
15	HQAM	1	74	2272	2268	2263			
15	HQAM	3	0	2164	2164	2164			22.7
15	HQAM	3	20	2188	2188	2181			
15	HQAM	3	39	2187	2184	2183			
15	HQAM	7	0	2170	2167	2159			
15	256QAM	1	0	1946	1943	1944			20.7
15	256QAM	1	37	1845	1837	1846			
15	256QAM	1	74	1837	1836	1836			
15	256QAM	3	0	1939	1940	1938			
15	256QAM	3	20	1941	1941	1938			
15	256QAM	3	39	1931	1932	1931			20.7
15	256QAM	7	0	1941	1943	1934			
Channel									
Frequency (MHz)				811.5	811.5	811.5			
10	QPSK	1	0	2454	2452	2449			25.7
10	QPSK	3	26	2453	2452	2449			
10	QPSK	1	49	2453	2454	2442			
10	QPSK	2	0	2368	2357	2357			24.7
10	QPSK	2	26	2368	2358	2358			
10	QPSK	2	26	2383	2389	2387			
10	QPSK	5	0	2365	2365	2354			
10	HQAM	1	49	2359	2387	2388			24.7
10	HQAM	1	26	2359	2350	2388			
10	HQAM	1	49	2365	2364	2375			
10	HQAM	2	0	2270	2259	2256			23.7
10	HQAM	2	12	2259	2259	2254			
10	HQAM	2	26	2261	2261	2256			
10	HQAM	5	0	2255	2254	2258			
10	HQAM	1	0	2292	2278	2274			23.7
10	HQAM	1	26	2288	2288	2278			
10	HQAM	1	49	2281	2280	2268			
10	HQAM	2	0	2151	2150	2162			22.7
10	HQAM	2	12	2170	2163	2162			
10	HQAM	2	26	2181	2181	2134			
10	HQAM	5	0	2153	2152	2155			
10	256QAM	1	0	1942	1942	1941			20.7
10	256QAM	1	26	1943	1928	1943			
10	256QAM	1	49	1941	1941	1936			
10	256QAM	2	0	1932	1934	1937			
10	256QAM	2	12	1938	1942	1938			20.7
10	256QAM	2	26	1938	1935	1934			
10	256QAM	5	0	1933	1933	1930			
Channel									
Frequency (MHz)				811.5	811.5	811.5			
5	QPSK	1	0	2450	2450	2455			25.7
5	QPSK	1	12	2453	2455	2454			
5	QPSK	1	24	2455	2456	2442			
5	QPSK	1	0	2372	2381	2381			24.7
5	QPSK	1	7	2369	2354	2358			
5	QPSK	1	14	2384	2360	2351			
5	QPSK	2	0	2368	2352	2357			24.7
5	HQAM	1	0	2401	2391	2389			
5	HQAM	1	12	2398	2396	2378			24.7
5	HQAM	1	24	2396	2393	2374			
5	HQAM	1	1	2378	2363	2364			
5	HQAM	1	12	2273	2268	2259			23.7
5	HQAM	1	13	2265	2261	2252			
5	HQAM	2	0	2265	2262	2254			
5	HQAM	1	0	2258	2254	2281			23.7
5	HQAM	1	12	2272	2264	2264			
5	HQAM	1	24	2269	2266	2211			
5	HQAM	1	0	2155	2187	2158			22.7
5	HQAM	1	12	2162	2171	2121			
5	HQAM	1	13	2158	2164	2034			
5	HQAM	2	0	2152	2188	2122			
5	256QAM	1	0	1941	1941	1936			20.7
5	256QAM	1	12	1942	1938	1944			
5	256QAM	1	24	1948	1948	1927			
5	256QAM	1	13	1935	1935	1932			
5	256QAM	1	12	1940	1940	1931			20.7
5	256QAM	1	13	1928	1928	1930			
5	256QAM	2	0	1941	1933	1928			
Channel									
Frequency (MHz)				811.5	811.5	811.5			
3	QPSK	1	0	2443	2441	2433			25.7
3	QPSK	1	8	2452	2450	2454			
3	QPSK	1	14	2450	2448	2441			
3	QPSK	1	0	2372	2359	2358			24.7
3	QPSK	1	4	2361	2350	2353			
3	QPSK	1	7	2362	2359	2348			
3	QPSK	1	14	2361	2358	2348			
3	HQAM	1	0	2393	2387	2387			24.7
3	HQAM	1	8	2386	2386	2374			
3	HQAM	1	14	2380	2384	2373			
3	HQAM	1	0	2274	2257	2254			23.7
3	HQAM	1	4	2265	2262	2254			
3	HQAM	1	7	2261	2252	2244			
3	HQAM	1	15	2268	2261	2257			23.7
3	HQAM	1	0	2268	2278	2271			
3	HQAM	1	8	2287	2284	2224			
3	HQAM	1	14	2259	2286	2211			22.7
3	HQAM	1	0	2149	2162	2153			
3	HQAM	1	4	2163	2167	2112			22.7
3	HQAM	1	7	2154	2144	2030			
3	HQAM	1	14	2145	2158	2110			
3	256QAM	1	0	1947	1943	1939			20.7
3	256QAM	1	8	1940	1929	1946			
3	256QAM	1	14	1934	1946	1932			
3	256QAM	1	0	1930	1935	1933			
3	256QAM	1	4	1941	1937	1929			20.7
3	256QAM	1	7	1924	1924	1925			
3	256QAM	1	15	1934	1942	1926			
Channel									
Frequency (MHz)				814.7	814.7	814.7			
1.4	QPSK	1	0	2447	2443	2446			25.7
1.4	QPSK	1	0	2451	2448	2445			
1.4	QPSK	1	0	2449	2450	2432			
1.4	QPSK	3	0	2446	2448	2447			
1.4	QPSK	1	0	2448	2450	2453			
1.4	QPSK	3	3	2446	2448	2432			24.7
1.4	QPSK	1	0	2372	2354	2356			
1.4	HQAM	1	0	2365	2364	2348			
1.4	HQAM	1	3	2360	2359	2341			24.7
1.4	HQAM	1	0	2364	2360	2354			
1.4	HQAM	3	0	2354	2355	2330			
1.4	HQAM	3	1	2387	2388	2377			
1.4	HQAM	3	0	2377	2350	2360			23.7
1.4	HQAM	6	0	2277	2281	2280			
1.4	HQAM	1	0	2288	2284	2259			
1.4	HQAM	3	0	2255	2261	2243			23.7
1.4	HQAM	1	6	2269	2259	2254			
1.4	HQAM	3	0	2251	2275	2279			
1.4	HQAM	3	0	2252	2260	2224			
1.4	HQAM	3	3	2260	2286	2209			20.7
1.4	HQAM	1	0	2147	2167	2156			
1.4	256QAM	1	0	1944	1937	1936			
1.4	256QAM	1	3	1938	1934	1942			
1.4	256QAM	1	0	1935	1940	1938			
1.4	256QAM	3	0	1936	1937	1931			20.7
1.4	256QAM	3	1	1939	1938				



Band 30_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2315			24.2
10	QPSK	1	25	2309			
10	QPSK	1	49	2302			
10	QPSK	25	0	2208			23.2
10	QPSK	25	12	2216			
10	QPSK	25	25	2218			
10	QPSK	50	0	2214			23.2
10	HQAM	1	0	2244			
10	HQAM	1	25	2248			
10	HQAM	1	49	2241			22.2
10	HQAM	25	0	2108			
10	HQAM	25	12	2114			
10	HQAM	25	25	2117			22.2
10	HQAM	50	0	2114			
10	HQAM	1	0	2109			
10	HQAM	1	25	2109			21.2
10	HQAM	1	49	2127			
10	HQAM	25	0	2012			
10	HQAM	25	12	2020			21.2
10	HQAM	25	25	2020			
10	HQAM	50	0	2018			
10	256QAM	1	0	1880			19.2
10	256QAM	1	25	1894			
10	256QAM	1	49	1891			
10	256QAM	25	0	1878			19.2
10	256QAM	25	12	1873			
10	256QAM	25	25	1875			
10	256QAM	50	0	1877			
Channel							
Frequency (MHz)							
5	QPSK	1	0	2307.5	2310	2312.5	24.2
5	QPSK	1	0	2297	2301	2305	
5	QPSK	1	25	2314	2314	2312	
5	QPSK	1	24	2313	2313	2306	23.2
5	QPSK	12	0	2210	2212	2216	
5	QPSK	12	13	2222	2217	2219	
5	QPSK	25	0	2218	2214	2219	23.2
5	HQAM	1	0	2232	2234	2239	
5	HQAM	1	12	2242	2240	2238	
5	HQAM	1	24	2244	2240	2236	22.2
5	HQAM	12	0	2115	2114	2119	
5	HQAM	12	7	2124	2120	2122	
5	HQAM	12	13	2125	2116	2122	22.2
5	HQAM	25	0	2121	2116	2120	
5	HQAM	1	0	2128	2132	2134	
5	HQAM	1	25	2132	2136	2133	21.2
5	HQAM	1	24	2138	2136	2131	
5	HQAM	12	0	2017	2021	2020	
5	HQAM	12	7	2020	2023	2026	21.2
5	HQAM	12	13	2030	2025	2024	
5	HQAM	25	0	2025	2017	2020	
5	256QAM	1	0	1875	1876	1877	19.2
5	256QAM	1	12	1887	1890	1885	
5	256QAM	1	24	1896	1890	1887	
5	256QAM	12	7	1883	1872	1884	19.2
5	256QAM	12	13	1885	1875	1871	
5	256QAM	25	0	1875	1872	1870	



Band 66_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Time-up (ms)	
Channel								
Frequency (MHz)								
20	QPSK	1	0	2428	2428	2428	25.7	
20	QPSK	1	49	2422	2427	2420		
20	QPSK	1	99	2423	2429	2424		
20	QPSK	60	0	2328	2328	2328	24.7	
20	QPSK	50	24	2338	2330	2330		
20	QPSK	50	50	2337	2333	2326		
20	HQAM	1	0	2359	2358	2351	24.7	
20	HQAM	1	49	2360	2361	2352		
20	HQAM	1	99	2361	2356	2347		
20	HQAM	50	0	2222	2229	2224	23.7	
20	HQAM	50	24	2227	2225	2232		
20	HQAM	50	50	2240	2238	2231		
20	HQAM	100	0	2241	2231	2232	23.7	
20	HQAM	1	0	2211	2252	2232		
20	HQAM	1	49	2246	2251	2175		
20	HQAM	1	99	2259	2249	2222	22.7	
20	HQAM	50	0	2128	2134	2038		
20	HQAM	50	24	2143	2137	2065		
20	HQAM	50	50	2141	2145	2131	20.7	
20	HQAM	100	0	2140	2131	2115		
20	HQAM	1	0	1979	1973	1971		
20	HQAM	1	49	1959	1952	1958	20.7	
20	HQAM	1	99	2051	1956	1979		
20	HQAM	50	0	1952	1949	1949		
20	HQAM	50	24	1946	1974	1975	20.7	
20	HQAM	50	50	1973	1971	1958		
20	HQAM	100	0	1972	1979	1945		
Channel								
Frequency (MHz)								
15	QPSK	1	0	2420	2426	2418	25.7	
15	QPSK	1	49	2413	2418	2420		
15	QPSK	1	74	2416	2425	2414		
15	QPSK	30	0	2322	2334	2318	24.7	
15	QPSK	30	20	2322	2328	2324		
15	QPSK	30	39	2330	2322	2325		
15	QPSK	75	0	2331	2324	2324	24.7	
15	HQAM	1	0	2355	2351	2343		
15	HQAM	1	39	2359	2359	2346		
15	HQAM	1	74	2361	2352	2347	23.7	
15	HQAM	30	0	2218	2221	2220		
15	HQAM	30	20	2234	2231	2232		
15	HQAM	30	39	2235	2232	2237	23.7	
15	HQAM	75	0	2231	2221	2228		
15	HQAM	1	0	2207	2205	2235		
15	HQAM	1	49	2248	2244	2170	22.7	
15	HQAM	1	74	2249	2241	2222		
15	HQAM	30	0	2123	2126	2038		
15	HQAM	30	20	2125	2132	2035	22.7	
15	HQAM	30	39	2132	2135	2125		
15	HQAM	75	0	2158	2127	2107		
15	HQAM	1	0	1972	1968	1965	20.7	
15	HQAM	1	39	1955	1988	1982		
15	HQAM	30	0	1972	1964	1953		
15	HQAM	30	20	1975	1969	1975	20.7	
15	HQAM	30	39	1965	1959	1958		
15	HQAM	75	0	1972	1979	1958		
Channel								
Frequency (MHz)								
10	QPSK	1	0	2417	2422	2415	25.7	
10	QPSK	1	25	2414	2421	2420		
10	QPSK	1	49	2418	2419	2424		
10	QPSK	25	0	2323	2325	2318	24.7	
10	QPSK	25	12	2333	2328	2325		
10	QPSK	25	25	2329	2331	2319		
10	QPSK	50	0	2336	2321	2323	24.7	
10	HQAM	1	0	2352	2348	2346		
10	HQAM	1	25	2354	2340	2332		
10	HQAM	1	49	2360	2349	2337	23.7	
10	HQAM	25	0	2219	2219	2221		
10	HQAM	25	12	2229	2228	2231		
10	HQAM	25	25	2233	2226	2227	23.7	
10	HQAM	50	0	2228	2228	2221		
10	HQAM	1	0	2202	2205	2234		
10	HQAM	1	25	2237	2230	2170	22.7	
10	HQAM	1	49	2240	2243	2217		
10	HQAM	25	0	2120	2134	2038		
10	HQAM	25	12	2138	2130	2031	22.7	
10	HQAM	25	25	2139	2137	2127		
10	HQAM	50	0	2132	2126	2105		
10	HQAM	1	0	1974	1971	1958	20.7	
10	HQAM	1	25	1953	1951	1958		
10	HQAM	1	49	1944	1941	1970		
10	HQAM	25	0	1948	1959	1945	20.7	
10	HQAM	25	12	1970	1958	1975		
10	HQAM	25	25	1973	1952	1948		
10	HQAM	50	0	1968	1978	1958	20.7	
Channel								
Frequency (MHz)								
5	QPSK	1	0	2418	2423	2415	25.7	
5	QPSK	1	12	2412	2418	2419		
5	QPSK	1	24	2422	2427	2419		
5	QPSK	15	0	2322	2331	2317	24.7	
5	QPSK	12	7	2338	2321	2324		
5	QPSK	12	15	2329	2326	2320		
5	QPSK	25	0	2328	2325	2324	24.7	
5	HQAM	1	0	2358	2351	2343		
5	HQAM	1	12	2355	2354	2343		
5	HQAM	1	24	2356	2348	2340	23.7	
5	HQAM	15	0	2220	2225	2222		
5	HQAM	15	7	2228	2226	2226		
5	HQAM	15	15	2230	2229	2229	23.7	
5	HQAM	25	0	2234	2222	2225		
5	HQAM	1	0	2201	2203	2230		
5	HQAM	1	12	2243	2245	2170	22.7	
5	HQAM	1	24	2248	2242	2221		
5	HQAM	15	0	2121	2130	2038		
5	HQAM	12	7	2136	2134	2037	22.7	
5	HQAM	15	15	2137	2148	2106		
5	HQAM	25	0	2132	2121	2109		
5	HQAM	1	0	1969	1966	1971	20.7	
5	HQAM	1	12	1957	1959	1958		
5	HQAM	1	24	1958	1951	1972		
5	HQAM	12	0	1948	1955	1955	20.7	
5	HQAM	12	7	1979	1973	1973		
5	HQAM	12	15	1971	1987	1951		
5	HQAM	25	0	1968	1974	1961	20.7	
Channel								
Frequency (MHz)								
3	QPSK	1	0	2423	2428	2417	25.7	
3	QPSK	1	6	2421	2423	2415		
3	QPSK	1	14	2416	2424	2421		
3	QPSK	6	0	2326	2334	2319	24.7	
3	QPSK	6	4	2337	2323	2330		
3	QPSK	6	7	2352	2322	2320		
3	QPSK	12	0	2335	2326	2329	24.7	
3	HQAM	1	0	2359	2351	2349		
3	HQAM	1	6	2358	2358	2348		
3	HQAM	1	14	2356	2349	2340	23.7	
3	HQAM	6	0	2216	2226	2219		
3	HQAM	6	4	2231	2226	2230		
3	HQAM	6	7	2236	2236	2228	23.7	
3	HQAM	12	0	2239	2230	2228		
3	HQAM	1	0	2204	2204	2235		
3	HQAM	1	6	2246	2248	2173	22.7	
3	HQAM	1	14	2243	2241	2222		
3	HQAM	6	0	2119	2134	2030		
3	HQAM	6	4	2141	2133	2039	22.7	
3	HQAM	6	7	2132	2137	2121		
3	HQAM	12	0	2133	2131	2105		
3	HQAM	1	0	1989	1972	1970	20.7	
3	HQAM	1	6	1954	1986	1984		
3	HQAM	6	0	1942	1965	1960		
3	HQAM	6	4	1975	1972	1965	20.7	
3	HQAM	6	7	1971	1966	1957		
3	HQAM	12	0	1963	1971	1963		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	2402	2409	2401	25.7	
1.4	QPSK	1	3	2408	2413	2400		
1.4	QPSK	1	6	2403	2408	2398		
1.4	QPSK	3	0	2413	2413	2405	24.7	
1.4	QPSK	3	1	2416	2416	2408		
1.4	QPSK	1	24	2406	2416	2402		
1.4	QPSK	6	0	2311	2317	2305	24.7	
1.4	HQAM	1	0	2336	2347	2326		
1.4	HQAM	1	3	2345	2346	2336		
1.4	HQAM	1	6	2333	2345	2338	24.7	
1.4	HQAM	3	0	2317	2322	2311		
1.4	HQAM	3	1	2327	2333	2316		
1.4	HQAM	3	3	2314	2320	2310	23.7	
1.4	HQAM	6	0	2220	2228	2217		
1.4	HQAM	1	0	2207	2239	2225		
1.4	HQAM	1	3	2217	2250	2231	23.7	
1.4	HQAM	3	0	2208	2236	2224		
1.4	HQAM	3	0	2204	2228	2218		
1.4	HQAM	3	1	2216	2239	2225	22.7	
1.4	HQAM	3	3	2218	2233	2215		
1.4	HQAM	6	0	2103	2123	2109		
1.4	HQAM	1	0	1963	1960	1955	20.7	
1.4	HQAM	1	6	1964	1961	1975		
1.4	HQAM	1	6	1931	1960	1984		
1.4	HQAM	1	12	1952	1951	1937	20.7	
1.4	HQAM	3	0	1984	1980	1987		
1.4	HQAM	3	1	1984	1987	1979		
1.4	HQAM</							





Band 71_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dB)			
Channel				693	693	693				
Frequency (MHz)				19299	19302	19302				
20	QPSK	1	0	2466	2467	2462	25.7			
20	QPSK	1	49	2458	2453	2451				
20	QPSK	1	99	2451	2453	2450				
20	QPSK	60	0	2366	2366	2358	24.7			
20	QPSK	50	24	2371	2361	2361				
20	QPSK	50	50	2370	2364	2363				
20	HQAM	100	0	2370	2360	2358	24.7			
20	HQAM	1	0	2402	2392	2382				
20	HQAM	1	49	2392	2389	2385				
20	HQAM	1	99	2389	2386	2385	23.7			
20	HQAM	50	0	2270	2268	2267				
20	HQAM	50	24	2273	2265	2261				
20	HQAM	50	50	2270	2268	2264	23.7			
20	HQAM	100	0	2270	2262	2259				
20	HQAM	1	0	2384	2375	2374				
20	HQAM	1	49	2261	2259	2271	23.7			
20	HQAM	1	99	2278	2277	2278				
20	HQAM	60	0	2158	2167	2161				
20	HQAM	50	24	2173	2165	2165	22.7			
20	HQAM	50	50	2171	2166	2165				
20	HQAM	100	0	2174	2162	2162				
20	SSBQAM	1	0	1958	1950	1937	20.7			
20	SSBQAM	1	49	1941	1936	1939				
20	SSBQAM	1	99	1945	1935	1935				
20	SSBQAM	50	0	1941	1947	1944	20.7			
20	SSBQAM	50	24	1945	1944	1938				
20	SSBQAM	50	50	1940	1938	1929				
20	SSBQAM	100	0	1943	1943	1932	20.7			
Channel				19310	19310	19310				
Frequency (MHz)				670.5	680.5	690.5				
15	QPSK	1	0	2464	2457	2453	25.7			
15	QPSK	1	49	2456	2453	2452				
15	QPSK	1	74	2453	2458	2453				
15	QPSK	30	0	2388	2364	2360	24.7			
15	QPSK	30	20	2371	2368	2369				
15	QPSK	30	39	2384	2383	2381				
15	QPSK	75	0	2372	2369	2366	24.7			
15	HQAM	1	0	2401	2393	2394				
15	HQAM	1	39	2384	2390	2388				
15	HQAM	1	74	2367	2366	2364	23.7			
15	HQAM	30	0	2268	2264	2262				
15	HQAM	30	20	2271	2269	2268				
15	HQAM	30	39	2264	2262	2263	23.7			
15	HQAM	75	0	2273	2269	2267				
15	HQAM	1	0	2247	2279	2275				
15	HQAM	1	74	2263	2278	2278	23.7			
15	HQAM	1	74	2275	2283	2277				
15	HQAM	30	0	2148	2160	2163				
15	HQAM	30	20	2152	2171	2171	22.7			
15	HQAM	30	39	2168	2185	2185				
15	HQAM	75	0	2170	2170	2168				
15	SSBQAM	1	0	1949	1952	1927	20.7			
15	SSBQAM	1	39	1933	1928	1932				
15	SSBQAM	1	74	1946	1941	1936				
15	SSBQAM	30	0	1935	1941	1937	20.7			
15	SSBQAM	30	20	1938	1943	1930				
15	SSBQAM	30	39	1938	1938	1935				
15	SSBQAM	75	0	1938	1938	1931	20.7			
Channel				19312	19322	19322				
Frequency (MHz)				693	693	693				
10	QPSK	1	0	2462	2457	2449	25.7			
10	QPSK	1	25	2455	2445	2450				
10	QPSK	1	49	2452	2451	2445				
10	QPSK	25	0	2372	2358	2353	24.7			
10	QPSK	25	12	2371	2358	2359				
10	QPSK	25	25	2366	2362	2361				
10	QPSK	50	0	2371	2365	2356	24.7			
10	HQAM	1	0	2406	2391	2384				
10	HQAM	1	25	2392	2386	2389				
10	HQAM	1	49	2388	2390	2383	23.7			
10	HQAM	25	0	2272	2266	2264				
10	HQAM	25	12	2271	2267	2264				
10	HQAM	25	25	2264	2260	2261	23.7			
10	HQAM	50	0	2271	2263	2264				
10	HQAM	1	0	2254	2278	2273				
10	HQAM	1	25	2258	2270	2260	23.7			
10	HQAM	1	49	2266	2281	2271				
10	HQAM	25	0	2132	2159	2165				
10	HQAM	25	12	2133	2160	2162	22.7			
10	HQAM	25	25	2128	2165	2164				
10	HQAM	50	0	2141	2168	2157				
10	SSBQAM	1	0	1955	1957	1936	20.7			
10	SSBQAM	1	25	1938	1928	1934				
10	SSBQAM	1	49	1937	1945	1955				
10	SSBQAM	25	0	1934	1942	1937	20.7			
10	SSBQAM	25	12	1932	1935	1932				
10	SSBQAM	25	25	1940	1928	1928				
10	SSBQAM	50	0	1938	1933	1922	20.7			
Channel				19317	19327	19327				
Frequency (MHz)				692.5	692.5	692.5				
5	QPSK	1	0	2463	2457	2453	25.7			
5	QPSK	1	12	2461	2454	2456				
5	QPSK	1	24	2458	2454	2447				
5	QPSK	10	0	2379	2363	2364	24.7			
5	QPSK	12	7	2373	2364	2370				
5	QPSK	12	13	2368	2360	2361				
5	QPSK	25	0	2370	2364	2359	24.7			
5	HQAM	1	0	2402	2392	2389				
5	HQAM	1	12	2395	2390	2388				
5	HQAM	1	24	2389	2388	2383	23.7			
5	HQAM	12	0	2282	2268	2268				
5	HQAM	12	13	2278	2268	2270				
5	HQAM	12	13	2289	2261	2261	23.7			
5	HQAM	25	0	2273	2265	2262				
5	HQAM	1	0	2223	2260	2279				
5	HQAM	1	12	2248	2285	2281	23.7			
5	HQAM	11	24	2247	2283	2278				
5	HQAM	10	0	2134	2170	2171				
5	HQAM	12	7	2149	2170	2173	22.7			
5	HQAM	15	13	2168	2164	2163				
5	HQAM	25	0	2131	2167	2162				
5	SSBQAM	1	0	1955	1952	1931	20.7			
5	SSBQAM	1	12	1937	1928	1936				
5	SSBQAM	1	24	1938	1947	1955				
5	SSBQAM	12	0	1935	1945	1934	20.7			
5	SSBQAM	12	13	1937	1938	1932				
5	SSBQAM	12	13	1936	1936	1920				
5	SSBQAM	25	0	1937	1935	1931	20.7			



Band 2_Ant 0										
BW (MHz)	Modulation	RBI Size	RBI Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up limit (min)			
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.55	23.59	23.74	25.5			
20	QPSK	1	49	23.51	23.55	23.74				
20	QPSK	1	99	23.53	23.61	23.62				
20	QPSK	64	0	22.87	22.71	22.71	24.5			
20	QPSK	50	24	22.87	22.73	22.73				
20	QPSK	50	50	22.85	22.77	22.84				
20	QPSK	100	0	22.88	22.88	22.74	24.5			
20	QPSK	1	0	22.96	22.95	22.88				
20	HQAM	1	49	22.84	22.98	22.94				
20	HQAM	1	99	22.84	22.90	22.91	23.5			
20	HQAM	50	0	21.60	21.72	21.72				
20	HQAM	50	24	21.65	21.75	21.77				
20	HQAM	50	50	21.68	21.78	21.83	23.5			
20	HQAM	100	0	21.85	21.88	21.75				
20	HQAM	1	49	22.72	21.87	21.33				
20	HQAM	1	99	22.82	21.79	21.82	22.5			
20	HQAM	50	0	21.58	20.73	20.74				
20	HQAM	50	24	21.86	20.77	20.50				
20	HQAM	50	50	21.84	20.80	20.76	20.5			
20	HQAM	100	0	21.85	20.74	20.80				
20	SSBQAM	1	0	18.70	18.84	18.90				
20	SSBQAM	1	49	18.81	18.99	18.85	20.5			
20	SSBQAM	1	99	18.80	18.87	18.93				
20	SSBQAM	50	0	18.84	18.75	18.80				
20	SSBQAM	50	24	18.75	18.86	18.95	20.5			
20	SSBQAM	50	50	18.83	18.88	18.98				
20	SSBQAM	100	0	18.78	18.81	18.89				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.54	23.59	23.88	25.5			
15	QPSK	1	49	23.51	23.65	23.98				
15	QPSK	1	74	23.52	23.59	23.54				
15	QPSK	36	0	22.59	22.69	22.84	24.5			
15	QPSK	36	36	22.67	22.83	22.85				
15	QPSK	36	39	22.69	22.89	22.78				
15	QPSK	75	0	22.62	22.85	22.69	24.5			
15	HQAM	1	0	22.90	22.88	22.88				
15	HQAM	1	37	22.83	22.96	22.91				
15	HQAM	1	74	22.81	22.88	22.82	23.5			
15	HQAM	36	0	21.83	21.84	21.84				
15	HQAM	36	20	21.80	21.73	21.76				
15	HQAM	36	39	21.80	21.76	21.76	23.5			
15	HQAM	75	0	21.80	21.58	21.71				
15	HQAM	1	0	22.88	21.72	21.83				
15	HQAM	1	49	22.72	21.82	21.55	22.5			
15	HQAM	1	74	22.81	21.79	21.80				
15	HQAM	36	0	21.51	20.83	20.71				
15	HQAM	36	20	21.65	20.74	20.88	22.5			
15	HQAM	36	39	21.58	20.70	20.74				
15	HQAM	75	0	21.55	20.98	20.59				
15	SSBQAM	1	0	18.80	18.75	18.85	20.5			
15	SSBQAM	1	37	18.71	18.90	18.95				
15	SSBQAM	1	74	18.71	18.76	18.76				
15	SSBQAM	36	0	18.77	18.70	18.76	20.5			
15	SSBQAM	36	20	18.74	18.79	18.85				
15	SSBQAM	36	39	18.75	18.78	18.86				
15	SSBQAM	75	0	18.72	18.80	18.85				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.53	23.51	23.69	25.5			
10	QPSK	1	25	23.51	23.58	23.55				
10	QPSK	1	49	23.52	23.57	23.63				
10	QPSK	25	0	22.83	22.83	22.82	24.5			
10	QPSK	25	12	22.84	22.84	22.86				
10	QPSK	25	25	22.83	22.71	22.85				
10	QPSK	64	0	22.59	22.67	22.84	24.5			
10	HQAM	1	0	22.98	22.90	22.96				
10	HQAM	1	25	22.78	22.68	22.90				
10	HQAM	1	49	22.75	22.85	22.89	23.5			
10	HQAM	25	0	21.80	21.62	21.87				
10	HQAM	25	12	21.83	21.70	21.70				
10	HQAM	25	25	21.84	21.74	21.74	23.5			
10	HQAM	50	0	21.82	21.61	21.74				
10	HQAM	1	0	22.87	21.72	21.84				
10	HQAM	1	25	22.70	21.84	21.52	22.5			
10	HQAM	1	49	22.73	21.72	21.74				
10	HQAM	25	0	21.52	20.86	20.71				
10	HQAM	25	12	21.59	20.89	20.52	22.5			
10	HQAM	25	25	21.60	20.73	20.76				
10	HQAM	50	0	21.59	20.85	20.58				
10	SSBQAM	1	0	18.73	18.98	18.95	20.5			
10	SSBQAM	1	25	18.73	18.98	18.95				
10	SSBQAM	1	49	18.78	18.97	18.94				
10	SSBQAM	25	0	18.84	18.75	18.80	20.5			
10	SSBQAM	25	12	18.73	18.77	18.83				
10	SSBQAM	25	25	18.78	18.81	18.95				
10	SSBQAM	50	0	18.87	18.79	18.83				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.53	23.54	23.68	25.5			
5	QPSK	1	12	23.50	23.57	23.62				
5	QPSK	1	24	23.54	23.54	23.61				
5	QPSK	12	0	22.83	22.83	22.81	24.5			
5	QPSK	12	7	22.87	22.83	22.87				
5	QPSK	12	19	22.85	22.76	22.83				
5	QPSK	24	0	22.83	22.68	22.74	24.5			
5	HQAM	1	0	22.93	22.89	22.98				
5	HQAM	1	12	22.81	22.68	22.81				
5	HQAM	1	24	22.81	22.82	22.88	23.5			
5	HQAM	12	0	21.59	21.71	21.87				
5	HQAM	12	12	21.84	21.73	21.76				
5	HQAM	12	19	21.83	21.68	21.77	23.5			
5	HQAM	25	0	21.58	21.60	21.69				
5	HQAM	1	0	22.71	21.79	21.88				
5	HQAM	1	12	22.89	21.82	21.83	22.5			
5	HQAM	1	24	22.75	21.71	21.81				
5	HQAM	12	0	21.59	20.68	20.65				
5	HQAM	12	7	21.60	20.69	20.50	22.5			
5	HQAM	25	12	21.60	20.70	20.67				
5	HQAM	25	25	21.52	20.72	20.57				
5	SSBQAM	1	0	18.70	18.80	18.88	20.5			
5	SSBQAM	1	12	18.77	18.94	18.98				
5	SSBQAM	1	24	18.80	18.87	18.93				
5	SSBQAM	12	0	18.82	18.74	18.78	20.5			
5	SSBQAM	12	12	18.80	18.83	18.88				
5	SSBQAM	12	19	18.86	18.77	18.83				
5	SSBQAM	25	0	18.76	18.81	18.83				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.59	23.59	23.68	25.5			
3	QPSK	1	8	23.51	23.65	23.97				
3	QPSK	1	14	23.51	23.52	23.54				
3	QPSK	8	0	22.52	22.70	22.69	24.5			
3	QPSK	8	4	22.67	22.73	22.69				
3	QPSK	8	7	22.64	22.76	22.78				
3	QPSK	16	0	22.61	22.61	22.61	24.5			
3	HQAM	1	0	22.91	22.91	22.96				
3	HQAM	1	8	22.81	22.89	22.88				
3	HQAM	1	14	22.85	22.87	22.85	23.5			
3	HQAM	8	0	21.55	21.66	21.72				
3	HQAM	8	4	21.62	21.68	21.78				
3	HQAM	8	7	21.68	21.71	21.78	23.5			
3	HQAM	16	0	21.85	21.82	21.72				
3	HQAM	1	0	22.70	21.80	21.80				
3	HQAM	1	8	22.66	21.79	21.83	22.5			
3	HQAM	1	14	22.82	21.79	21.73				
3	HQAM	8	0	21.56	20.73	20.67				
3	HQAM	16	4	21.56	20.73	21.58	22.5			
3	HQAM	8	7	21.57	20.78	20.69				
3	HQAM	16	0	21.68	20.74	20.54				
3	SSBQAM	1	0	18.70	18.81	18.88	20.5			
3	SSBQAM	1	8	18.81	18.95	18.95				
3	SSBQAM	8	0	18.99	18.68	18.70				
3	SSBQAM	8	4	18.74	18.72	18.75	20.5			
3	SSBQAM	8	7	18.74	18.84	18.91				
3	SSBQAM	16	0	18.71	18.80	18.84				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.51	23.52	23.57	25.5			
1.4	QPSK	1	3	23.58	23.61	23.63				
1.4	QPSK	1	6	23.59	23.57	23.58				
1.4	QPSK	3	0	23.55	23.54	23.61</				



Band 4_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power High Ch. Freq	Power Mid Ch. Freq	Power Low Ch. Freq	Power High Ch. Freq	Power Mid Ch. Freq	Time-up (sec)
Channel										
Frequency (MHz)										
20	QPSK	1	0	2359	2400	2359				25.7
20	QPSK	1	49	2352	2381	2376				
20	QPSK	1	99	2378	2379	2372				
20	QPSK	84	0	2301	2303	2302				
20	QPSK	50	24	2303	2304	2301				24.7
20	QPSK	50	50	2295	2299	2299				
20	QPSK	100	0	2307	2307	2307				
20	HQAM	1	0	2134	2129	2133				24.7
20	HQAM	1	49	2117	2119	2111				
20	HQAM	1	99	2115	2109	2104				
20	HQAM	50	0	2202	2203	2198				23.7
20	HQAM	50	24	2205	2196	2190				
20	HQAM	50	50	2198	2194	2190				
20	HQAM	100	0	2201	2198	2190				
20	HQAM	1	0	2104	2103	2102				23.7
20	HQAM	1	49	2203	2201	2202				
20	HQAM	1	99	2204	2191	2198				
20	HQAM	50	0	2098	2107	2093				22.7
20	HQAM	50	24	2105	2099	2094				
20	HQAM	50	50	2100	2098	2093				
20	HQAM	100	0	2108	2097	2092				
20	256QAM	1	0	1891	1886	1892				20.7
20	256QAM	1	49	1894	1886	1881				
20	256QAM	1	99	1892	1891	1886				
20	256QAM	50	0	1894	1891	1888				
20	256QAM	50	24	1891	1886	1881				20.7
20	256QAM	50	50	1884	1887	1888				
20	256QAM	100	0	1897	1893	1891				
Channel										
Frequency (MHz)										
15	QPSK	1	0	2350	2356	2356				25.7
15	QPSK	1	49	2348	2378	2378				
15	QPSK	1	74	2376	2370	2370				
15	QPSK	36	0	2300	2301	2298				24.7
15	QPSK	36	26	2302	2303	2299				
15	QPSK	36	39	2281	2289	2285				
15	QPSK	75	0	2290	2290	2286				24.7
15	HQAM	1	0	2134	2127	2131				
15	HQAM	1	37	2111	2111	2104				
15	HQAM	1	75	2108	2104	2108				23.7
15	HQAM	36	0	2196	2197	2191				
15	HQAM	36	26	2198	2188	2185				
15	HQAM	36	39	2196	2186	2182				
15	HQAM	75	0	2199	2198	2192				23.7
15	HQAM	1	0	2121	2123	2122				
15	HQAM	1	74	2202	2186	2188				23.7
15	HQAM	36	0	2080	2102	2081				22.7
15	HQAM	36	26	2104	2093	2097				
15	HQAM	36	39	2092	2085	2084				
15	HQAM	75	0	2099	2092	2089				20.7
15	256QAM	1	0	1893	1886	1891				
15	256QAM	1	37	1893	1876	1880				
15	256QAM	36	0	1894	1889	1884				20.7
15	256QAM	36	26	1892	1887	1878				
15	256QAM	36	39	1890	1894	1894				
15	256QAM	75	0	1901	1899	1893				
Channel										
Frequency (MHz)										
10	QPSK	1	0	2393	2395	2398				25.7
10	QPSK	1	25	2372	2378	2378				
10	QPSK	1	49	2372	2377	2387				
10	QPSK	25	0	2292	2303	2290				24.7
10	QPSK	25	12	2295	2288	2284				
10	QPSK	25	25	2298	2295	2290				
10	QPSK	50	0	2295	2289	2282				24.7
10	HQAM	1	0	2128	2125	2132				
10	HQAM	1	25	2115	2112	2109				24.7
10	HQAM	1	49	2112	2109	2108				
10	HQAM	25	0	2108	2109	2107				23.7
10	HQAM	25	12	2204	2196	2192				
10	HQAM	25	25	2196	2187	2190				
10	HQAM	50	0	2101	2106	2102				23.7
10	HQAM	1	0	2121	2219	2202				
10	HQAM	1	25	2200	2192	2196				
10	HQAM	1	49	2200	2182	2198				
10	HQAM	25	0	2083	2183	2083				22.7
10	HQAM	25	12	2102	2099	2094				
10	HQAM	25	25	2098	2085	2088				
10	HQAM	50	0	2098	2089	2088				20.7
10	256QAM	1	0	1894	1890	1890				
10	256QAM	1	25	1894	1890	1890				
10	256QAM	1	49	1892	1891	1892				20.7
10	256QAM	25	0	1894	1885	1887				
10	256QAM	25	12	1893	1889	1883				
10	256QAM	25	25	1894	1893	1884				
10	256QAM	50	0	1900	1892	1891				
Channel										
Frequency (MHz)										
5	QPSK	1	0	2397	2398	2398				25.7
5	QPSK	1	12	2381	2380	2378				
5	QPSK	1	24	2370	2374	2384				
5	QPSK	12	0	2293	2304	2298				24.7
5	QPSK	12	7	2294	2291	2284				
5	QPSK	12	13	2293	2284	2283				
5	QPSK	24	0	2290	2290	2286				24.7
5	HQAM	1	0	2127	2123	2128				
5	HQAM	1	12	2111	2118	2108				23.7
5	HQAM	1	24	2109	2100	2100				
5	HQAM	12	0	2196	2198	2193				23.7
5	HQAM	12	13	2204	2186	2186				
5	HQAM	12	13	2198	2190	2189				
5	HQAM	25	0	2197	2196	2196				23.7
5	HQAM	1	0	2118	2205	2204				
5	HQAM	1	12	2199	2187	2201				
5	HQAM	1	24	2203	2180	2190				
5	HQAM	12	0	2098	2100	2090				22.7
5	HQAM	12	7	2102	2089	2088				
5	HQAM	12	13	2100	2086	2083				
5	HQAM	25	0	2100	2092	2095				20.7
5	256QAM	1	0	1901	1879	1892				
5	256QAM	1	12	1894	1877	1874				
5	256QAM	1	24	1904	1892	1899				
5	256QAM	12	0	1887	1890	1880				20.7
5	256QAM	12	13	1886	1888	1888				
5	256QAM	25	0	1904	1893	1883				
Channel										
Frequency (MHz)										
3	QPSK	1	0	2389	2393	2398				25.7
3	QPSK	1	6	2381	2380	2371				
3	QPSK	1	14	2378	2379	2387				
3	QPSK	6	0	2290	2303	2290				24.7
3	QPSK	6	4	2298	2291	2285				
3	QPSK	6	7	2289	2280	2283				
3	QPSK	12	0	2291	2297	2295				24.7
3	HQAM	1	0	2132	2124	2124				
3	HQAM	1	6	2113	2115	2104				24.7
3	HQAM	1	14	2106	2109	2104				
3	HQAM	6	0	2201	2201	2191				23.7
3	HQAM	6	4	2196	2195	2183				
3	HQAM	6	7	2105	2106	2104				
3	HQAM	12	0	2182	2184	2183				23.7
3	HQAM	1	0	2118	2217	2202				
3	HQAM	1	6	2109	2196	2198				
3	HQAM	1	14	2203	2189	2188				22.7
3	HQAM	6	1	2081	2097	2082				
3	HQAM	12	0	2099	2092	2093				
3	HQAM	6	7	2095	2076	2088				20.7
3	HQAM	12	0	2106	2092	2089				
3	256QAM	1	0	1901	1885	1895				
3	256QAM	1	6	1898	1879					



Band 5_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)	
Channel								
Frequency (MHz)								
ISD								
10	QPSK	1	0	2347	2347	2348	25	
10	QPSK	1	25	2351	2356	2353		
10	QPSK	1	49	2358	2353	2345		
10	QPSK	25	0	2263	2266	2263	24	
10	QPSK	25	12	2272	2267	2262		
10	QPSK	25	25	2268	2270	2264		
10	QPSK	50	0	2272	2266	2259	24	
10	HQAM	1	0	2291	2292	2297		
10	HQAM	1	25	2292	2298	2292		
10	HQAM	1	49	2298	2293	2293	23	
10	HQAM	25	0	2159	2165	2158		
10	HQAM	25	12	2171	2167	2163		
10	HQAM	25	25	2168	2171	2162	23	
10	HQAM	50	0	2170	2184	2182		
10	HQAM	1	0	2174	2171	2181		
10	HQAM	1	25	2158	2150	2175	22	
10	HQAM	1	49	2187	2183	2177		
10	HQAM	25	0	2066	2065	2066		
10	HQAM	25	12	2077	2072	2067	20	
10	HQAM	25	25	2071	2074	2045		
10	HQAM	50	0	2073	2069	2069		
10	SSBQAM	1	0	1848	1853	1858	20	
10	SSBQAM	1	25	1853	1850	1851		
10	SSBQAM	1	49	1850	1853	1854		
10	SSBQAM	25	0	1847	1848	1845	20	
10	SSBQAM	25	12	1848	1842	1839		
10	SSBQAM	25	25	1838	1848	1848		
10	SSBQAM	50	0	1851	1849	1844	20	
Channel								
Frequency (MHz)								
ISD								
5	QPSK	1	0	2361	2362	2360	25	
5	QPSK	1	25	2366	2363	2362		
5	QPSK	1	24	2357	2359	2353		
5	QPSK	12	0	2263	2273	2265	24	
5	QPSK	12	6	2270	2274	2268		
5	QPSK	12	12	2265	2267	2267		
5	QPSK	25	0	2268	2272	2258	24	
5	HQAM	1	0	2294	2291	2293		
5	HQAM	1	12	2292	2299	2284		
5	HQAM	1	24	2294	2298	2290	23	
5	HQAM	12	0	2187	2175	2187		
5	HQAM	12	7	2171	2177	2181		
5	HQAM	12	13	2166	2169	2156	23	
5	HQAM	25	0	2172	2174	2160		
5	HQAM	1	0	2188	2195	2186		
5	HQAM	1	24	2183	2190	2178	22	
5	HQAM	1	24	2188	2191	2199		
5	HQAM	12	0	2074	2080	2055		
5	HQAM	12	6	2078	2081	2059	20	
5	HQAM	12	12	2071	2075	2028		
5	HQAM	25	0	2073	2076	2033		
5	SSBQAM	1	0	1838	1838	1838	20	
5	SSBQAM	1	12	1850	1840	1853		
5	SSBQAM	1	24	1848	1848	1848		
5	SSBQAM	12	0	1840	1844	1840	20	
5	SSBQAM	12	7	1844	1837	1836		
5	SSBQAM	12	13	1835	1830	1846		
5	SSBQAM	25	0	1843	1845	1838	20	
Channel								
Frequency (MHz)								
ISD								
3	QPSK	1	0	2339	2347	2351	25	
3	QPSK	1	6	2349	2353	2348		
3	QPSK	1	11	2351	2351	2345		
3	QPSK	8	0	2285	2288	2288	24	
3	QPSK	8	4	2288	2288	2284		
3	QPSK	8	6	2283	2285	2289		
3	QPSK	16	0	2262	2260	2250	24	
3	HQAM	1	0	2291	2292	2290		
3	HQAM	1	8	2287	2297	2286		
3	HQAM	1	14	2294	2290	2273	23	
3	HQAM	8	0	2166	2169	2167		
3	HQAM	8	4	2184	2162	2163		
3	HQAM	8	7	2161	2166	2157	23	
3	HQAM	16	0	2166	2164	2152		
3	HQAM	1	0	2185	2187	2174		
3	HQAM	1	6	2178	2183	2169	22	
3	HQAM	8	0	2081	2080	2081		
3	HQAM	8	4	2078	2072	2089		
3	HQAM	8	7	2083	2072	2041	20	
3	HQAM	16	0	2065	2059	2059		
3	SSBQAM	1	0	1846	1847	1849		
3	SSBQAM	1	6	1843	1847	1851	20	
3	SSBQAM	1	14	1845	1863	1845		
3	SSBQAM	8	0	1836	1844	1836		
3	SSBQAM	8	4	1846	1837	1836	20	
3	SSBQAM	8	7	1834	1842	1843		
3	SSBQAM	16	0	1848	1844	1835		
Channel								
Frequency (MHz)								
ISD								
1.4	QPSK	1	0	2345	2352	2343	25	
1.4	QPSK	1	3	2354	2358	2348		
1.4	QPSK	1	5	2347	2351	2339		
1.4	QPSK	3	0	2353	2352	2347	24	
1.4	QPSK	3	1	2357	2352	2350		
1.4	QPSK	3	2	2353	2357	2348		
1.4	QPSK	6	0	2268	2264	2251	24	
1.4	HQAM	1	0	2279	2284	2278		
1.4	HQAM	1	5	2269	2264	2277		
1.4	HQAM	1	5	2282	2268	2272	24	
1.4	HQAM	3	0	2263	2264	2254		
1.4	HQAM	3	1	2266	2272	2260		
1.4	HQAM	3	1	2261	2263	2249	23	
1.4	HQAM	6	0	2184	2171	2158		
1.4	HQAM	3	0	2174	2175	2139		
1.4	HQAM	1	3	2184	2181	2144	23	
1.4	HQAM	1	6	2178	2182	2139		
1.4	HQAM	3	0	2178	2174	2132		
1.4	HQAM	3	1	2178	2184	2144	22	
1.4	HQAM	6	0	2173	2175	2147		
1.4	HQAM	6	0	2059	2060	2030		
1.4	SSBQAM	1	0	1846	1860	1851	20	
1.4	SSBQAM	1	6	1846	1847	1851		
1.4	SSBQAM	1	6	1842	1853	1854		
1.4	SSBQAM	3	0	1845	1847	1841	20	
1.4	SSBQAM	3	1	1839	1832	1838		
1.4	SSBQAM	3	1	1834	1839	1841		
1.4	SSBQAM	6	0	1851	1840	1842	20	



Band 7_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)	Tune-up (MHz)	
Channel				2560	2608	2656			
Frequency (MHz)									
20	QPSK	1	0	23.87	23.84	23.99	25.5		
20	QPSK	1	49	23.93	23.99	23.94			
20	QPSK	1	99	23.99	24.08	24.02			
20	QPSK	60	0	22.07	22.02	22.02	24.5		
20	QPSK	50	24	23.10	23.09	23.08			
20	QPSK	50	50	23.11	23.16	23.13			
20	HQAM	1	0	21.27	21.30	21.29	24.5		
20	HQAM	1	49	21.29	21.38	21.38			
20	HQAM	1	99	21.33	21.40	21.34			
20	HQAM	50	0	21.08	21.04	21.02	23.5		
20	HQAM	50	24	22.10	22.10	22.08			
20	HQAM	50	50	22.13	22.17	22.14			
20	HQAM	100	0	22.08	22.07	22.03	23.5		
20	HQAM	1	49	22.08	22.11	22.10			
20	HQAM	1	99	22.10	22.26	22.21			
20	HQAM	1	99	22.24	22.32	22.27	22.5		
20	HQAM	50	0	21.08	21.08	21.05			
20	HQAM	50	24	21.12	21.11	21.08			
20	HQAM	50	50	21.15	21.21	21.15	20.5		
20	HQAM	100	0	21.12	21.05	21.07			
20	HQAM	1	0	19.20	19.27	19.13			
20	HQAM	1	49	19.20	19.16	19.22	20.5		
20	HQAM	1	99	19.12	19.17	19.11			
20	HQAM	50	0	19.12	19.12	19.07			
20	HQAM	50	24	19.22	19.14	19.10	20.5		
20	HQAM	50	50	19.17	19.18	19.13			
20	HQAM	100	0	19.23	19.11	19.05			
Channel				2656	2704	2752			
Frequency (MHz)									
15	QPSK	1	0	23.83	23.84	23.95	25.5		
15	QPSK	1	49	23.86	23.90	23.85			
15	QPSK	1	74	23.97	24.04	23.94			
15	QPSK	30	0	22.95	22.98	23.00	24.5		
15	QPSK	30	20	23.08	23.04	23.04			
15	QPSK	30	39	23.08	23.13	23.09			
15	QPSK	75	0	23.02	23.01	23.01	24.5		
15	HQAM	1	0	21.23	21.30	21.29			
15	HQAM	1	39	21.24	21.36	21.30			
15	HQAM	1	74	21.31	21.34	21.34	23.5		
15	HQAM	30	0	21.88	22.04	22.01			
15	HQAM	30	20	22.10	22.02	21.97			
15	HQAM	30	39	22.10	22.09	22.14	23.5		
15	HQAM	75	0	21.98	22.05	21.94			
15	HQAM	1	0	22.07	22.08	22.08			
15	HQAM	1	74	22.08	22.20	22.19	23.5		
15	HQAM	1	74	22.14	22.25	22.17			
15	HQAM	30	0	20.95	20.98	21.02			
15	HQAM	30	20	21.03	21.02	21.06	22.5		
15	HQAM	30	39	21.12	21.21	21.05			
15	HQAM	75	0	21.99	21.05	21.00			
15	HQAM	1	0	19.17	19.25	19.13	20.5		
15	HQAM	1	39	19.18	19.12	19.19			
15	HQAM	1	74	19.14	19.15	19.15			
15	HQAM	30	0	19.04	19.12	19.04	20.5		
15	HQAM	30	20	19.14	19.05	19.05			
15	HQAM	30	39	19.18	19.14	19.08			
15	HQAM	75	0	19.23	19.04	19.07			
Channel				2752	2800	2848			
Frequency (MHz)									
10	QPSK	1	0	23.89	23.92	23.99	25.5		
10	QPSK	1	25	23.93	23.99	23.84			
10	QPSK	1	49	23.98	24.01	23.98			
10	QPSK	25	0	22.91	22.99	22.97	24.5		
10	QPSK	25	12	23.07	23.08	23.00			
10	QPSK	25	25	23.01	23.09	23.03			
10	QPSK	50	0	22.99	23.06	23.01	24.5		
10	HQAM	1	0	21.17	21.24	21.28			
10	HQAM	1	25	21.27	21.34	21.35			
10	HQAM	1	49	21.31	21.39	21.31	23.5		
10	HQAM	25	0	21.02	21.00	21.01			
10	HQAM	25	12	22.07	22.08	22.06			
10	HQAM	25	25	22.08	22.10	22.07	23.5		
10	HQAM	50	0	22.02	22.04	22.00			
10	HQAM	1	0	22.00	22.13	22.10			
10	HQAM	1	25	22.06	22.16	22.18	22.5		
10	HQAM	1	49	22.14	22.31	22.25			
10	HQAM	25	0	20.91	21.02	20.96			
10	HQAM	25	12	21.04	21.04	21.02	22.5		
10	HQAM	25	25	21.08	21.14	21.09			
10	HQAM	50	0	21.19	21.05	21.02			
10	HQAM	1	0	19.15	19.19	19.19	20.5		
10	HQAM	1	25	19.20	19.07	19.22			
10	HQAM	1	49	19.18	19.09	19.03			
10	HQAM	25	0	19.03	19.05	19.06	20.5		
10	HQAM	25	12	19.21	19.07	19.09			
10	HQAM	25	25	19.16	19.08	19.08			
10	HQAM	50	0	19.18	19.04	19.09			
Channel				2848	2896	2944			
Frequency (MHz)									
5	QPSK	1	0	23.84	23.83	23.98	25.5		
5	QPSK	1	12	23.93	23.93	23.88			
5	QPSK	1	24	23.89	24.02	23.95			
5	QPSK	15	0	22.98	22.93	22.99	24.5		
5	QPSK	12	7	23.09	23.02	22.96			
5	QPSK	12	15	23.11	23.14	23.13			
5	QPSK	24	0	23.04	22.98	23.01	24.5		
5	HQAM	1	0	21.17	21.28	21.19			
5	HQAM	1	12	21.25	21.33	21.30			
5	HQAM	1	24	21.32	21.34	21.34	23.5		
5	HQAM	15	0	21.04	21.08	21.08			
5	HQAM	12	13	22.10	22.15	22.14			
5	HQAM	25	0	22.00	22.07	21.95	23.5		
5	HQAM	1	0	22.01	22.10	22.09			
5	HQAM	1	12	22.10	22.21	22.15			
5	HQAM	11	24	22.19	22.31	22.19	22.5		
5	HQAM	12	0	20.91	20.99	20.99			
5	HQAM	12	7	21.07	21.02	21.03			
5	HQAM	15	15	21.08	21.17	21.08	22.5		
5	HQAM	24	0	21.04	21.02	21.07			
5	HQAM	1	0	19.11	19.25	19.11			
5	HQAM	1	12	19.25	19.08	19.15	20.5		
5	HQAM	1	24	19.08	19.10	19.03			
5	HQAM	12	0	19.08	19.06	19.06			
5	HQAM	12	13	19.22	19.13	19.00	20.5		
5	HQAM	12	13	19.12	19.07	19.13			
5	HQAM	22	0	19.22	19.07	19.02			



Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
10	QPSK	1	0	2448	2458	2459			
10	QPSK	1	26	2439	2442	2440			25.7
10	QPSK	1	49	2450	2443	2448			
10	QPSK	26	0	2353	2354	2353			
10	QPSK	26	12	2380	2353	2353			24.7
10	QPSK	26	26	2358	2359	2360			
10	QPSK	50	0	2381	2353	2353			
10	HQAM	1	0	2382	2376	2378			24.7
10	HQAM	1	26	2381	2382	2380			
10	HQAM	1	49	2387	2386	2378			
10	HQAM	26	0	2254	2255	2253			
10	HQAM	26	12	2261	2255	2254			23.7
10	HQAM	26	26	2259	2260	2257			
10	HQAM	50	0	2260	2255	2252			
10	HQAM	50	12	2254	2254	2262			
10	HQAM	1	26	2271	2276	2274			23.7
10	HQAM	1	49	2273	2254	2239			
10	HQAM	26	0	2127	2136	2136			
10	HQAM	26	12	2149	2155	2158			22.7
10	HQAM	26	26	2153	2160	2161			
10	HQAM	50	0	2141	2155	2159			
10	256QAM	1	0	1947	1986	1947			20.7
10	256QAM	1	26	1953	1973	1949			
10	256QAM	1	49	1964	1955	1937			
10	256QAM	26	0	1944	1946	1940			
10	256QAM	26	12	1945	1946	1946			20.7
10	256QAM	26	26	1939	1941	1943			
10	256QAM	50	0	1951	1943	1941			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
5	QPSK	1	0	2448	2447	2439			
5	QPSK	1	26	2448	2448	2440			25.7
5	QPSK	1	24	2447	2449	2446			
5	QPSK	12	0	2362	2354	2355			
5	QPSK	12	6	2355	2358	2359			24.7
5	QPSK	12	12	2385	2354	2351			
5	QPSK	26	0	2358	2352	2352			
5	HQAM	1	0	2383	2383	2373			24.7
5	HQAM	1	12	2380	2379	2376			
5	HQAM	1	24	2382	2380	2376			
5	HQAM	12	0	2266	2262	2259			
5	HQAM	12	6	2258	2264	2254			23.7
5	HQAM	12	12	2265	2259	2254			
5	HQAM	26	0	2259	2253	2253			
5	HQAM	1	0	2224	2237	2286			
5	HQAM	1	24	2248	2274	2289			23.7
5	HQAM	1	24	2223	2273	2249			
5	HQAM	12	0	2135	2164	2160			
5	HQAM	12	6	2145	2167	2161			22.7
5	HQAM	12	12	2135	2180	2142			
5	HQAM	26	0	2111	2157	2150			
5	256QAM	1	0	1938	1936	1945			
5	256QAM	1	12	1950	1984	1939			20.7
5	256QAM	1	24	1952	1947	1954			
5	256QAM	12	0	1943	1938	1932			
5	256QAM	12	6	1938	1932	1945			20.7
5	256QAM	12	12	1938	1938	1934			
5	256QAM	26	0	1947	1933	1933			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
3	QPSK	1	0	2448	2437	2433			
3	QPSK	1	6	2434	2442	2436			25.7
3	QPSK	1	11	2443	2433	2436			
3	QPSK	6	0	2343	2354	2348			
3	QPSK	6	4	2352	2349	2351			24.7
3	QPSK	6	11	2349	2358	2351			
3	QPSK	16	0	2358	2351	2345			
3	HQAM	1	0	2376	2386	2370			24.7
3	HQAM	1	6	2376	2379	2372			
3	HQAM	1	14	2385	2383	2380			
3	HQAM	6	0	2252	2251	2249			
3	HQAM	6	4	2260	2245	2242			23.7
3	HQAM	6	7	2250	2250	2254			
3	HQAM	16	0	2267	2250	2245			
3	HQAM	1	0	2247	2255	2267			23.7
3	HQAM	1	6	2266	2272	2274			
3	HQAM	1	14	2266	2248	2233			
3	HQAM	6	0	2117	2131	2155			
3	HQAM	6	4	2140	2152	2159			22.7
3	HQAM	6	7	2147	2153	2153			
3	HQAM	16	0	2131	2149	2150			
3	256QAM	1	0	1944	1967	1941			
3	256QAM	1	6	1949	1958	1948			20.7
3	256QAM	1	14	1958	1954	1949			
3	256QAM	6	0	1943	1936	1930			
3	256QAM	6	4	1943	1939	1943			20.7
3	256QAM	6	7	1937	1941	1942			
3	256QAM	16	0	1943	1937	1939			
Channel									
Frequency (MHz)									
707.5 717.5 721.5									
1.4	QPSK	1	0	2444	2433	2436			
1.4	QPSK	1	3	2444	2442	2438			25.7
1.4	QPSK	1	5	2437	2436	2429			
1.4	QPSK	1	11	2442	2438	2437			
1.4	QPSK	3	1	2449	2442	2440			
1.4	QPSK	3	3	2443	2443	2437			24.7
1.4	QPSK	6	0	2359	2347	2343			
1.4	HQAM	1	0	2376	2367	2371			
1.4	HQAM	1	3	2376	2366	2377			24.7
1.4	HQAM	1	5	2370	2369	2363			
1.4	HQAM	3	0	2353	2347	2347			
1.4	HQAM	3	3	2366	2351	2350			
1.4	HQAM	3	1	2351	2350	2343			
1.4	HQAM	6	0	2257	2256	2249			23.7
1.4	HQAM	1	0	2234	2261	2237			
1.4	HQAM	1	3	2245	2272	2234			
1.4	HQAM	1	6	2247	2263	2220			23.7
1.4	HQAM	3	0	2228	2256	2239			
1.4	HQAM	3	1	2228	2261	2237			
1.4	HQAM	6	0	2123	2150	2123			22.7
1.4	256QAM	1	0	1938	1958	1939			
1.4	256QAM	1	3	1945	1971	1941			
1.4	256QAM	1	5	1951	1954	1953			20.7
1.4	256QAM	3	0	1943	1943	1936			
1.4	256QAM	3	1	1938	1942	1937			
1.4	256QAM	3	1	1939	1931	1938			
1.4	256QAM	6	0	1949	1937	1939			20.7



Band 13_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2153		
10	QPSK	1	25	2151		
10	QPSK	1	49	2157		
10	QPSK	25	0	2240		
10	QPSK	25	12	2241		
10	QPSK	25	25	2245		
10	QPSK	50	0	2241		
10	16QAM	1	0	2242		
10	16QAM	1	25	2246		
10	16QAM	1	49	2248		
10	16QAM	25	0	2141		
10	16QAM	25	12	2146		
10	16QAM	25	25	2149		
10	16QAM	50	0	2144		
10	16QAM	1	0	2149		
10	16QAM	1	25	2141		
10	16QAM	1	49	2178		
10	16QAM	25	0	2045		
10	16QAM	25	12	2049		
10	16QAM	25	25	2071		
10	16QAM	50	0	2048		
10	256QAM	1	0	1825		
10	256QAM	1	25	1830		
10	256QAM	1	49	1830		
10	256QAM	25	0	1841		
10	256QAM	25	12	1846		
10	256QAM	25	25	1859		
10	256QAM	50	0	1844		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2345	2348	2322
5	QPSK	1	24	2350	2354	2334
5	QPSK	1	24	2355	2356	2331
5	QPSK	12	0	2258	2259	2232
5	QPSK	12	12	2262	2263	2240
5	QPSK	12	12	2265	2267	2238
5	QPSK	25	0	2245	2243	2237
5	16QAM	1	0	2244	2276	2250
5	16QAM	1	12	2275	2282	2248
5	16QAM	1	24	2284	2288	2251
5	16QAM	12	0	2142	2144	2136
5	16QAM	12	7	2148	2144	2143
5	16QAM	12	13	2144	2171	2142
5	16QAM	25	0	2170	2163	2141
5	16QAM	1	0	2173	2168	2142
5	16QAM	1	24	2169	2181	2148
5	16QAM	1	24	2177	2181	2148
5	16QAM	12	0	2046	2070	2043
5	16QAM	12	7	2072	2067	2045
5	16QAM	12	13	2071	2075	2043
5	16QAM	25	0	2073	2066	2042
5	256QAM	1	0	1816	1824	1822
5	256QAM	1	12	1843	1845	1847
5	256QAM	1	24	1845	1847	1846
5	256QAM	12	7	1848	1836	1840
5	256QAM	12	13	1838	1835	1844
5	256QAM	25	0	1837	1834	1841



Band 14_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	23.68	23.68	23.68
10	QPSK	1	49	23.68	23.68	23.68
10	QPSK	25	0	22.63	22.63	22.63
10	QPSK	25	12	22.65	22.65	22.65
10	QPSK	25	25	22.74	22.74	22.74
10	QPSK	50	0	22.97	22.97	22.97
10	16QAM	1	0	23.92	23.92	23.92
10	16QAM	1	25	22.99	22.99	22.99
10	16QAM	1	49	22.97	22.97	22.97
10	16QAM	25	0	21.85	21.85	21.85
10	16QAM	25	12	21.88	21.88	21.88
10	16QAM	25	25	21.73	21.73	21.73
10	16QAM	50	0	21.88	21.88	21.88
10	16QAM	1	0	21.90	21.90	21.90
10	16QAM	1	25	21.95	21.95	21.95
10	16QAM	1	49	21.99	21.99	21.99
10	16QAM	25	0	20.87	20.87	20.87
10	16QAM	25	12	20.89	20.89	20.89
10	16QAM	25	25	20.76	20.76	20.76
10	16QAM	50	0	20.87	20.87	20.87
10	256QAM	1	0	18.45	18.45	18.45
10	256QAM	1	25	18.58	18.58	18.58
10	256QAM	1	49	18.74	18.74	18.74
10	256QAM	25	0	18.50	18.50	18.50
10	256QAM	25	12	18.44	18.44	18.44
10	256QAM	25	25	18.47	18.47	18.47
10	256QAM	50	0	18.50	18.50	18.50
Channel						
Frequency (MHz)						
5	QPSK	1	0	23.68	23.68	23.68
5	QPSK	1	49	23.63	23.63	23.63
5	QPSK	1	24	23.65	23.64	23.58
5	QPSK	12	0	22.71	22.65	22.64
5	QPSK	12	12	22.76	22.73	22.70
5	QPSK	12	13	22.71	22.73	22.68
5	QPSK	25	0	22.89	22.86	22.83
5	16QAM	1	0	22.91	22.92	22.97
5	16QAM	1	12	23.09	23.02	22.98
5	16QAM	1	24	22.98	23.00	22.99
5	16QAM	12	0	21.73	21.68	21.64
5	16QAM	12	7	21.77	21.77	21.73
5	16QAM	12	13	21.73	21.72	21.66
5	16QAM	25	0	21.71	21.68	21.64
5	16QAM	1	0	21.87	21.89	21.85
5	16QAM	1	49	21.93	22.00	21.94
5	16QAM	1	24	21.90	21.95	21.92
5	16QAM	12	0	20.89	20.71	20.69
5	16QAM	12	7	20.78	20.83	20.75
5	16QAM	12	13	20.75	20.76	20.69
5	16QAM	25	0	20.72	20.67	20.69
5	256QAM	1	0	18.38	18.37	18.42
5	256QAM	1	12	18.55	18.48	18.55
5	256QAM	1	24	18.74	18.72	18.65
5	256QAM	12	7	18.38	18.34	18.35
5	256QAM	12	13	18.47	18.46	18.39
5	256QAM	25	0	18.40	18.47	18.44





Band 17_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)	
Channel				700	710	711		
Frequency (MHz)				2490	2490	2490		
10	QPSK	1	0	2335	2331	2332	25	
10	QPSK	1	25	2338	2337	2337		
10	QPSK	1	49	2337	2345	2338		
10	QPSK	25	0	2238	2230	2241	24	
10	QPSK	25	12	2232	2250	2248		
10	QPSK	25	25	2239	2237	2235		
10	QPSK	50	0	2247	2248	2245	24	
10	HQAM	1	0	2270	2288	2289		
10	HQAM	1	25	2275	2278	2274		
10	HQAM	1	49	2278	2280	2277	23	
10	HQAM	25	0	2141	2141	2141		
10	HQAM	25	12	2155	2148	2147		
10	HQAM	25	25	2157	2154	2151	23	
10	HQAM	50	0	2144	2148	2142		
10	HQAM	1	0	2155	2154	2150		
10	HQAM	1	25	2157	2159	2158	23	
10	HQAM	1	49	2153	2160	2148		
10	HQAM	25	0	2043	2043	2044		
10	HQAM	25	12	2039	2051	2051	22	
10	HQAM	25	25	2039	2038	2038		
10	HQAM	50	0	2049	2047	2045		
10	256QAM	1	0	1834	1839	1822	20	
10	256QAM	1	25	1843	1840	1841		
10	256QAM	1	49	1854	1847	1838		
10	256QAM	25	0	1831	1827	1830	20	
10	256QAM	25	12	1830	1846	1834		
10	256QAM	25	25	1840	1837	1839		
10	256QAM	50	0	1827	1840	1831	20	
Channel				2331.5	2331.5	2331.5		
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	2333	2328	2327	25	
5	QPSK	1	25	2343	2342	2330		
5	QPSK	1	24	2343	2344	2340		
5	QPSK	12	0	2244	2246	2241	24	
5	QPSK	12	12	2251	2248	2243		
5	QPSK	12	13	2253	2252	2245		
5	QPSK	25	0	2249	2247	2242	24	
5	HQAM	1	0	2265	2267	2266		
5	HQAM	1	12	2274	2278	2270		
5	HQAM	1	24	2278	2278	2275	24	
5	HQAM	12	0	2148	2147	2146		
5	HQAM	12	7	2153	2152	2145		
5	HQAM	12	13	2154	2152	2147	23	
5	HQAM	25	0	2151	2148	2144		
5	HQAM	1	0	2157	2166	2163		
5	HQAM	1	25	2166	2170	2164	23	
5	HQAM	1	24	2179	2178	2167		
5	HQAM	12	0	2030	2040	2047		
5	HQAM	12	7	2037	2035	2031	22	
5	HQAM	12	13	2037	2038	2032		
5	HQAM	25	0	2031	2040	2041		
5	256QAM	1	0	1825	1831	1816	20	
5	256QAM	1	12	1840	1845	1842		
5	256QAM	1	24	1852	1839	1837		
5	256QAM	12	0	1828	1825	1825	20	
5	256QAM	12	7	1828	1833	1830		
5	256QAM	12	13	1836	1837	1837		
5	256QAM	25	0	1820	1830	1831	20	
Channel				2331.5	2331.5	2331.5		
Frequency (MHz)				706.5	710	713.5		



Band 25_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power High	Power Low	Power High	Time-up (ms)	Time-down (ms)
Channel				24.5	24.5	24.5	24.5		
Frequency (MHz)				1860	1860	1860	1860		
20	QPSK	1	0	21.59	21.59	21.58	21.58		
20	QPSK	1	49	21.61	21.61	21.61	21.61		
20	QPSK	1	99	21.64	21.64	21.64	21.64		
20	QPSK	64	0	22.76	22.77	22.76	22.76		
20	QPSK	50	24	22.75	22.80	22.81	22.81		
20	QPSK	50	50	22.88	22.74	22.79	22.79		
20	QPSK	100	0	22.75	22.74	22.78	22.78		
20	HQAM	1	0	22.86	22.90	22.90	22.90		
20	HQAM	1	49	22.92	22.95	22.90	22.90		
20	HQAM	1	99	22.88	22.88	22.95	22.95		
20	HQAM	50	0	21.69	21.73	21.77	21.77		
20	HQAM	50	24	21.74	21.68	21.78	21.78		
20	HQAM	50	50	21.72	21.74	21.82	21.82		
20	HQAM	100	0	21.74	21.78	21.74	21.74		
20	HQAM	1	0	21.87	21.90	21.86	21.86		
20	HQAM	1	49	21.83	21.82	21.81	21.81		
20	HQAM	1	99	21.82	21.88	21.87	21.87		
20	HQAM	50	0	20.72	20.78	20.80	20.80		
20	HQAM	50	24	20.78	20.83	20.85	20.85		
20	HQAM	50	50	20.71	20.77	20.84	20.84		
20	HQAM	100	0	20.72	20.78	20.80	20.80		
20	256QAM	1	0	18.99	18.87	18.88	18.88		
20	256QAM	1	49	18.79	18.97	18.90	18.90		
20	256QAM	1	99	18.90	18.92	18.90	18.90		
20	256QAM	50	0	18.75	18.80	18.85	18.85		
20	256QAM	50	24	18.75	18.80	18.80	18.80		
20	256QAM	50	50	18.75	18.87	18.90	18.90		
20	256QAM	100	0	18.88	18.88	18.87	18.87		
Channel				20.515	20.515	20.515	20.515		
Frequency (MHz)				1897.5	1890	1897.5	1897.5		
15	QPSK	1	0	23.52	23.52	23.53	23.53		
15	QPSK	1	49	23.66	23.61	23.67	23.67		
15	QPSK	1	74	23.53	23.62	23.56	23.56		
15	QPSK	38	0	22.87	22.88	22.88	22.88		
15	QPSK	38	26	22.72	22.79	22.78	22.78		
15	QPSK	38	39	22.81	22.85	22.81	22.81		
15	QPSK	75	0	22.71	22.72	22.71	22.71		
15	HQAM	1	0	22.91	22.99	22.93	22.93		
15	HQAM	1	37	22.87	22.92	22.86	22.86		
15	HQAM	1	75	22.86	22.88	22.88	22.88		
15	HQAM	38	0	21.87	21.89	21.74	21.74		
15	HQAM	38	26	21.73	21.80	21.80	21.80		
15	HQAM	38	39	21.71	21.85	21.80	21.80		
15	HQAM	75	0	21.68	21.71	21.59	21.59		
15	HQAM	1	0	21.87	21.88	21.82	21.82		
15	HQAM	1	49	21.78	21.81	21.87	21.87		
15	HQAM	1	74	21.74	21.78	21.58	21.58		
15	HQAM	38	0	20.85	20.88	20.59	20.59		
15	HQAM	38	26	20.71	20.77	20.72	20.72		
15	HQAM	38	39	20.85	20.87	20.76	20.76		
15	HQAM	75	0	20.86	20.76	20.53	20.53		
15	256QAM	1	0	18.98	18.86	18.94	18.94		
15	256QAM	1	37	18.73	18.86	18.90	18.90		
15	256QAM	1	75	18.73	18.86	18.90	18.90		
15	256QAM	38	0	18.72	18.74	18.64	18.64		
15	256QAM	38	26	18.75	18.79	18.84	18.84		
15	256QAM	38	39	18.75	18.82	18.86	18.86		
15	256QAM	75	0	18.88	18.86	18.90	18.90		
Channel				20.600	20.600	20.600	20.600		
Frequency (MHz)				1900	1900	1900	1900		
10	QPSK	1	0	23.57	23.51	23.60	23.60		
10	QPSK	1	25	23.58	23.59	23.68	23.68		
10	QPSK	1	49	23.61	23.68	23.68	23.68		
10	QPSK	25	0	22.70	22.68	22.72	22.72		
10	QPSK	25	12	22.73	22.72	22.72	22.72		
10	QPSK	25	25	22.85	22.69	22.80	22.80		
10	QPSK	50	0	22.68	22.73	22.73	22.73		
10	HQAM	1	0	22.91	22.90	22.96	22.96		
10	HQAM	1	25	22.84	22.87	22.90	22.90		
10	HQAM	1	49	22.82	22.91	22.85	22.85		
10	HQAM	25	0	21.85	21.70	21.69	21.69		
10	HQAM	25	12	21.72	21.71	21.78	21.78		
10	HQAM	25	25	21.68	21.70	21.73	21.73		
10	HQAM	50	0	21.65	21.60	21.71	21.71		
10	HQAM	1	0	21.88	21.88	21.82	21.82		
10	HQAM	1	25	21.74	21.80	21.87	21.87		
10	HQAM	1	49	21.75	21.83	21.92	21.92		
10	HQAM	25	0	20.88	20.78	20.55	20.55		
10	HQAM	25	12	20.76	20.83	20.80	20.80		
10	HQAM	25	25	20.85	20.78	20.75	20.75		
10	HQAM	50	0	20.71	20.77	20.29	20.29		
10	256QAM	1	0	18.99	18.90	18.90	18.90		
10	256QAM	1	25	18.59	18.97	18.95	18.95		
10	256QAM	1	49	18.87	18.91	18.96	18.96		
10	256QAM	25	0	18.75	18.74	18.84	18.84		
10	256QAM	25	12	18.73	18.84	18.90	18.90		
10	256QAM	25	25	18.67	18.78	18.85	18.85		
10	256QAM	50	0	18.77	18.83	18.93	18.93		
Channel				20.685	20.685	20.685	20.685		
Frequency (MHz)				1912.5	1910	1912.5	1912.5		
5	QPSK	1	0	23.63	23.64	23.68	23.68		
5	QPSK	1	12	23.62	23.64	23.69	23.69		
5	QPSK	1	24	23.59	23.58	23.59	23.59		
5	QPSK	15	0	22.81	22.85	22.72	22.72		
5	QPSK	12	7	22.87	22.78	22.69	22.69		
5	QPSK	12	15	22.84	22.71	22.83	22.83		
5	QPSK	24	0	22.72	22.65	22.72	22.72		
5	HQAM	1	0	22.95	22.89	22.95	22.95		
5	HQAM	1	12	22.87	22.87	22.97	22.97		
5	HQAM	1	24	22.88	22.92	22.88	22.88		
5	HQAM	12	0	21.68	21.65	21.73	21.73		
5	HQAM	12	11	21.65	21.70	21.70	21.70		
5	HQAM	12	13	21.68	21.74	21.78	21.78		
5	HQAM	25	0	21.74	21.74	21.87	21.87		
5	HQAM	1	0	21.84	21.87	21.79	21.79		
5	HQAM	1	12	21.82	21.80	21.89	21.89		
5	HQAM	11	24	21.77	21.84	21.98	21.98		
5	HQAM	12	0	20.69	20.74	20.99	20.99		
5	HQAM	12	7	20.73	20.82	20.77	20.77		
5	HQAM	12	13	20.67	20.81	20.81	20.81		
5	HQAM	25	0	20.72	20.78	20.20	20.20		
5	256QAM	1	0	18.98	18.86	18.90	18.90		
5	256QAM	1	12	18.77	18.80	18.96	18.96		
5	256QAM	1	24	18.87	18.90	18.92	18.92		
5	256QAM	12	0	18.71	18.72	18.82	18.82		
5	256QAM	12	11	18.74	18.83	18.80	18.80		
5	256QAM	12	13	18.88	18.79	18.85	18.85		
5	256QAM	25	0	18.81	18.77	18.87	18.87		
Channel				20.698	20.698	20.698	20.698		
Frequency (MHz)				1921.5	1890	1921.5	1921.5		
3	QPSK	1	0	23.59	23.58	23.59	23.59		
3	QPSK	1	6	23.58	23.52	23.62	23.62		
3	QPSK	1	14	23.59	23.53	23.58	23.58		
3	QPSK	8	0	22.83	22.87	22.72	22.72		
3	QPSK	8	4	22.72	22.79	22.75	22.75		
3	QPSK	8	7	22.58	22.59	22.79	22.79		
3	QPSK	16	0	22.67	22.65	22.73	22.73		
3	HQAM	1	0	22.87	22.98	22.92	22.92		
3	HQAM	1	8	22.88	22.94	23.00	23.00		
3	HQAM	1	11	22.85	22.94	22.91	22.91		
3	HQAM	8	0	21.68	21.67	21.74	21.74		
3	HQAM	8	4	21.73	21.77	21.75	21.75		
3	HQAM	8	7	21.71	21.68	21.78	21.78		
3	HQAM	16	0	21.73	21.75	21.72	21.72		
3	HQAM	1	0	21.87	21.90	21.87	21.87		
3	HQAM	8	0	21.79	21.78	21.95	21.95		
3	HQAM	1	14	21.80	21.81	21.82	21.82		
3	HQAM	8	1	20.86	20.86	20.87	20.87		
3	HQAM	12	4	20.78	20.75	20.74	20.74		
3	HQAM	8	7	20.87	20.88	20.74	20.74		
3	HQAM	16	0	20.66	20.77	20.24	20.24		
3	256QAM	1	0	18.99	18.86	18.88	18.88		
3	256QAM	1	8	18.71	18.87	18.95	18.95		
3	256QAM	8	0	18.70	18.70	18.81	18.81		
3	256QAM	8	4	18.81	18.87	18.80	18.80		
3	256QAM	8	7	18.71	18.86	18.85	18.85		
3	256QAM	16	0	18.85	18.83	18.92	18.92		
Channel				20.697	20.690	20.693	20.693		
Frequency (MHz)				1920.7	1890	1920.3	1920.3		
1.4	QPSK	1	0	23.67	23.55	23.59	23.59		
1.4	Q								



Band 26_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Power Max	Power Min	Time-up (sec)
Channel									
Frequency (MHz)									
15	QPSK	1	0	2340	2340	2341			25
15	QPSK	1	74	2351	2348	2333			
15	QPSK	36	0	2263	2264	2257			24
15	QPSK	36	20	2261	2263	2255			
15	QPSK	36	39	2262	2262	2254			
15	QPSK	75	0	2268	2264	2257			
15	QPSK	1	0	2287	2279	2278			24
15	HQAM	1	37	2278	2278	2276			
15	HQAM	1	74	2274	2274	2264			
15	HQAM	36	0	2161	2160	2159			23
15	HQAM	36	20	2164	2164	2156			
15	HQAM	36	39	2161	2162	2158			
15	HQAM	75	0	2198	2194	2159			
15	HQAM	1	0	2173	2184	2186			23
15	HQAM	1	37	2171	2174	2158			
15	HQAM	1	74	2173	2168	2168			
15	HQAM	36	0	2038	2063	2065			22
15	HQAM	36	20	2032	2069	2066			
15	HQAM	36	39	2035	2068	2048			
15	HQAM	75	0	2027	2066	2059			
15	256QAM	1	0	1854	1853	1858			20
15	256QAM	1	37	1859	1853	1850			
15	256QAM	1	74	1850	1857	1849			
15	256QAM	36	0	1848	1850	1850			
15	256QAM	36	20	1847	1847	1836			20
15	256QAM	36	39	1837	1841	1842			
15	256QAM	75	0	1848	1851	1839			
Channel									
Frequency (MHz)									
10	QPSK	1	0	2354	2339	2345			25
10	QPSK	1	26	2338	2340	2342			
10	QPSK	1	49	2342	2349	2329			
10	QPSK	26	0	2259	2255	2255			24
10	QPSK	26	0	2263	2260	2250			
10	QPSK	26	26	2262	2267	2249			
10	QPSK	50	0	2264	2264	2253			
10	HQAM	1	0	2282	2279	2273			24
10	HQAM	1	26	2276	2273	2273			
10	HQAM	1	49	2273	2271	2268			
10	HQAM	26	0	2167	2159	2157			
10	HQAM	26	12	2157	2158	2153			23
10	HQAM	26	26	2167	2162	2154			
10	HQAM	50	0	2169	2163	2150			
10	HQAM	1	0	2173	2162	2168			23
10	HQAM	1	26	2168	2174	2159			
10	HQAM	1	49	2171	2160	2168			
10	HQAM	26	0	2022	2060	2061			22
10	HQAM	26	12	2044	2067	2057			
10	HQAM	26	26	2057	2062	2042			
10	HQAM	50	0	2062	2059	2051			20
10	256QAM	1	0	1851	1849	1855			
10	256QAM	1	26	1849	1847	1847			
10	256QAM	1	49	1847	1847	1836			
10	256QAM	26	0	1841	1845	1843			20
10	256QAM	26	12	1848	1845	1830			
10	256QAM	26	26	1835	1840	1842			
10	256QAM	50	0	1845	1841	1837			
Channel									
Frequency (MHz)									
5	QPSK	1	0	2353	2340	2347			25
5	QPSK	1	12	2337	2344	2335			
5	QPSK	1	24	2339	2342	2339			
5	QPSK	12	0	2280	2265	2257			24
5	QPSK	12	7	2257	2258	2253			
5	QPSK	12	14	2260	2252	2256			
5	QPSK	26	0	2262	2264	2248			
5	HQAM	1	0	2287	2278	2274			24
5	HQAM	1	12	2273	2270	2272			
5	HQAM	1	24	2264	2267	2258			
5	HQAM	12	0	2167	2158	2149			23
5	HQAM	12	7	2159	2161	2147			
5	HQAM	12	14	2158	2160	2153			
5	HQAM	26	0	2164	2164	2157			
5	HQAM	1	0	2172	2160	2163			23
5	HQAM	1	12	2169	2171	2168			
5	HQAM	1	24	2171	2159	2168			
5	HQAM	12	0	2020	2034	2037			22
5	HQAM	12	7	2046	2060	2052			
5	HQAM	12	14	2069	2067	2049			
5	HQAM	26	0	2065	2057	2057			20
5	256QAM	1	0	1854	1849	1848			
5	256QAM	1	12	1859	1848	1842			
5	256QAM	1	24	1849	1858	1830			
5	256QAM	12	0	1845	1845	1839			20
5	256QAM	12	7	1845	1839	1829			
5	256QAM	12	14	1827	1841	1838			
5	256QAM	26	0	1848	1843	1838			
Channel									
Frequency (MHz)									
3	QPSK	1	0	2347	2344	2345			25
3	QPSK	1	8	2341	2346	2334			
3	QPSK	1	14	2351	2344	2327			
3	QPSK	8	0	2262	2259	2249			24
3	QPSK	8	4	2262	2258	2250			
3	QPSK	8	7	2258	2258	2256			
3	QPSK	16	0	2269	2264	2251			
3	HQAM	1	0	2277	2277	2272			24
3	HQAM	1	8	2276	2269	2270			
3	HQAM	1	14	2271	2268	2262			
3	HQAM	8	0	2154	2157	2156			23
3	HQAM	8	4	2164	2160	2152			
3	HQAM	8	7	2151	2154	2152			
3	HQAM	16	0	2164	2156	2153			23
3	HQAM	1	0	2165	2156	2168			
3	HQAM	1	8	2189	2173	2183			
3	HQAM	1	14	2173	2163	2168			
3	HQAM	8	0	2029	2058	2060			22
3	HQAM	8	4	2044	2063	2053			
3	HQAM	8	7	2069	2066	2059			
3	HQAM	16	0	2051	2055	2058			20
3	256QAM	1	0	1857	1849	1858			
3	256QAM	1	8	1859	1849	1848			
3	256QAM	1	14	1841	1858	1838			
3	256QAM	8	0	1844	1850	1845			20
3	256QAM	8	4	1848	1843	1833			
3	256QAM	8	7	1835	1838	1832			
3	256QAM	16	0	1848	1848	1833			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	2357	2342	2341			25
1.4	QPSK	1	0	2358	2354	2349			
1.4	QPSK	1	0	2353	2344	2331			
1.4	QPSK	3	0	2359	2345	2341			24
1.4	QPSK	3	0	2357	2352	2346			
1.4	QPSK	3	3	2359	2349	2344			
1.4	QPSK	6	0	2267	2267	2246			24
1.4	HQAM	1	0	2292	2282	2289			
1.4	HQAM	1	3	2295	2284	2274			24
1.4	HQAM	3	0	2288	2274	2281			
1.4	HQAM	3	0	2270	2257	2249			
1.4	HQAM	3	1	2277	2262	2252			
1.4	HQAM	3	0	2268	2260	2244			23
1.4	HQAM	6	0	2171	2185	2151			
1.4	HQAM	1	0	2144	2174	2152			23
1.4	HQAM	1	0	2169	2162	2158			
1.4	HQAM	1	6	2144	2174	2152			
1.4	HQAM	3	0	2148	2188	2150			22
1.4	HQAM	3	0	2155	2173	2158			
1.4	HQAM	3	3	2144	2171	2157			
1.4	HQAM	3	0	2027	2061	2050			20
1.4	256QAM	1	0	1853	1851	1855			
1.4	256QAM	1	3	1858	1847	1850			
1.4	256QAM	3	0	1841	1847	1830			
1.4	256QAM	3	0	1848	1848	1849			20
1.4	256QAM	3	1	1838	1844	1830			
1.4	256QAM	3	0	1830	1835	1839			
1.4	256QAM	6	0	1844	1843	1838			20



Band 30_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.87			25.7
10	QPSK	1	25	23.88			
10	QPSK	1	49	23.85			
10	QPSK	25	0	22.90			24.7
10	QPSK	25	12	22.94			
10	QPSK	25	25	22.96			
10	QPSK	50	0	22.94			24.7
10	16QAM	1	0	23.21			
10	16QAM	1	25	23.25			
10	16QAM	1	49	23.23			23.7
10	16QAM	25	0	21.88			
10	16QAM	25	12	21.97			
10	16QAM	25	25	21.94			23.7
10	16QAM	50	0	21.93			
10	16QAM	1	0	22.90			
10	16QAM	1	25	22.17			22.7
10	16QAM	1	49	22.02			
10	16QAM	25	0	20.90			
10	16QAM	25	12	21.82			22.7
10	16QAM	25	25	20.95			
10	16QAM	50	0	20.88			
10	256QAM	1	0	19.20			20.7
10	256QAM	1	25	19.23			
10	256QAM	1	49	19.13			
10	256QAM	25	0	18.96			20.7
10	256QAM	25	12	19.06			
10	256QAM	25	25	19.03			
10	256QAM	50	0	19.03			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.75	23.79	23.86	25.7
5	QPSK	1	25	23.82	23.86	23.90	
5	QPSK	1	24	23.85	23.87	23.79	
5	QPSK	12	0	22.87	22.89	22.94	24.7
5	QPSK	12	12	22.98	22.94	22.98	
5	QPSK	12	13	22.89	22.83	22.86	
5	QPSK	25	0	22.97	22.94	22.96	24.7
5	16QAM	1	0	23.07	23.10	23.17	
5	16QAM	1	12	23.18	23.17	23.13	
5	16QAM	1	24	23.24	23.18	23.29	23.7
5	16QAM	12	0	22.01	21.98	22.00	
5	16QAM	12	12	22.01	21.95	21.96	
5	16QAM	25	0	21.98	21.94	21.94	23.7
5	16QAM	1	0	22.03	22.08	21.87	
5	16QAM	1	24	22.16	22.14	21.97	
5	16QAM	1	24	22.16	22.09	21.83	22.7
5	16QAM	12	0	20.94	20.96	20.93	
5	16QAM	12	12	21.05	21.02	20.95	
5	16QAM	12	13	21.05	20.96	20.95	20.7
5	16QAM	25	0	21.01	21.00	20.81	
5	256QAM	1	0	19.11	19.19	19.16	
5	256QAM	1	12	19.21	19.19	19.22	20.7
5	256QAM	1	24	19.06	19.05	19.07	
5	256QAM	12	0	18.93	18.98	19.00	
5	256QAM	12	7	18.99	19.06	18.96	20.7
5	256QAM	12	13	19.03	18.93	18.99	
5	256QAM	25	0	19.03	18.96	19.01	



Band 66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Mid Ch./Freq	Power High Ch./Freq	Time-up (ms)		
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.83	23.87	23.84	25.5		
20	QPSK	1	49	23.83	23.85	23.72			
20	QPSK	1	98	23.75	23.80	23.82			
20	QPSK	60	0	22.94	22.97	22.94	24.5		
20	QPSK	50	24	22.98	22.99	22.90			
20	QPSK	50	50	22.94	22.95	22.92			
20	QPSK	100	0	22.92	22.93	22.91	24.5		
20	HQAM	1	0	23.28	23.30	23.20			
20	HQAM	1	49	23.18	23.19	23.04			
20	HQAM	50	0	23.09	23.09	23.01	23.5		
20	HQAM	50	0	23.03	23.06	23.07			
20	HQAM	50	24	23.09	23.04	23.01			
20	HQAM	50	50	23.05	23.04	23.04	23.5		
20	HQAM	100	0	23.08	23.08	23.00			
20	HQAM	1	49	22.08	22.07	21.97			
20	HQAM	1	98	22.01	22.05	21.87	22.5		
20	HQAM	50	0	20.98	21.00	20.81			
20	HQAM	50	24	21.01	20.97	20.79			
20	HQAM	50	50	20.95	20.98	20.88	20.5		
20	HQAM	100	0	21.01	20.93	20.91			
20	HQAM	1	0	18.91	18.90	18.96			
20	HQAM	1	49	18.98	18.94	18.80	20.5		
20	HQAM	50	0	18.92	18.98	18.96			
20	HQAM	50	24	18.95	18.92	18.84			
20	HQAM	50	50	18.93	18.90	18.88	20.5		
20	HQAM	100	0	18.92	18.90	18.99			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.93	23.96	23.74	25.5		
15	QPSK	1	49	23.77	23.83	23.82			
15	QPSK	1	74	23.70	23.75	23.54			
15	QPSK	30	0	22.84	22.88	22.79	24.5		
15	QPSK	30	20	22.92	22.98	22.88			
15	QPSK	30	39	22.89	22.92	22.81			
15	QPSK	75	0	22.89	22.88	22.88	24.5		
15	HQAM	1	0	23.21	23.25	23.13			
15	HQAM	1	39	23.17	23.09	23.02			
15	HQAM	1	70	23.00	23.00	22.87	23.5		
15	HQAM	30	0	21.83	21.96	21.78			
15	HQAM	30	20	21.98	21.90	21.85			
15	HQAM	30	39	21.98	21.92	21.78	23.5		
15	HQAM	75	0	21.95	21.85	21.82			
15	HQAM	1	0	21.98	22.14	22.00			
15	HQAM	1	74	21.97	22.00	21.78	23.5		
15	HQAM	30	0	20.87	20.95	20.81			
15	HQAM	30	20	20.97	20.98	20.87			
15	HQAM	30	39	20.87	20.88	20.78	22.5		
15	HQAM	75	0	20.91	20.88	20.81			
15	HQAM	1	0	18.90	18.97	18.88			
15	HQAM	1	39	18.90	18.94	18.84	20.5		
15	HQAM	30	0	18.90	18.97	18.88			
15	HQAM	30	20	18.90	18.94	18.84			
15	HQAM	30	39	18.90	18.98	18.81	20.5		
15	HQAM	75	0	18.89	18.89	18.80			
15	HQAM	75	0	18.89	18.85	18.89			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.93	23.88	23.78	25.5		
10	QPSK	1	25	23.82	23.80	23.85			
10	QPSK	1	49	23.68	23.74	23.64			
10	QPSK	25	0	22.85	22.90	22.79	24.5		
10	QPSK	25	12	22.92	22.90	22.86			
10	QPSK	25	25	22.84	22.88	22.80			
10	QPSK	50	0	22.83	22.86	22.84	24.5		
10	HQAM	1	0	23.23	23.25	23.19			
10	HQAM	1	25	23.13	23.12	22.99			
10	HQAM	1	49	23.08	23.07	22.90	24.5		
10	HQAM	25	0	23.07	23.09	23.07			
10	HQAM	25	12	23.09	23.03	22.87			
10	HQAM	25	25	23.07	23.08	23.04	23.5		
10	HQAM	50	0	22.00	22.08	21.99			
10	HQAM	1	25	22.02	22.03	21.80			
10	HQAM	1	49	22.00	22.05	21.82	22.5		
10	HQAM	25	0	20.94	20.98	20.83			
10	HQAM	25	12	20.97	20.92	20.83			
10	HQAM	25	25	20.91	20.94	20.84	22.5		
10	HQAM	50	0	20.94	20.89	20.81			
10	HQAM	1	25	18.90	18.90	18.88			
10	HQAM	1	49	18.92	18.93	18.87	20.5		
10	HQAM	25	0	18.93	18.96	18.87			
10	HQAM	25	12	18.90	18.89	18.88			
10	HQAM	25	25	18.89	18.95	18.80	20.5		
10	HQAM	50	0	18.88	18.81	18.88			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.92	23.93	23.78	25.5		
5	QPSK	1	12	23.74	23.75	23.66			
5	QPSK	1	24	23.68	23.75	23.58			
5	QPSK	12	0	22.87	22.97	22.78	24.5		
5	QPSK	12	7	22.96	22.92	22.88			
5	QPSK	12	13	22.80	22.89	22.81			
5	QPSK	24	0	22.82	22.83	22.88	24.5		
5	HQAM	1	0	23.24	23.29	23.13			
5	HQAM	1	12	23.16	23.17	23.00			
5	HQAM	1	24	23.09	23.03	22.87	24.5		
5	HQAM	12	0	21.87	21.88	21.84			
5	HQAM	12	13	21.96	21.92	21.80			
5	HQAM	12	13	21.88	21.88	21.83	23.5		
5	HQAM	25	0	21.87	21.81	21.84			
5	HQAM	1	0	21.08	22.07	22.04			
5	HQAM	1	12	22.82	22.83	21.83	23.5		
5	HQAM	1	24	21.91	22.00	21.78			
5	HQAM	12	0	20.98	20.98	20.85			
5	HQAM	12	7	21.00	20.95	20.84	22.5		
5	HQAM	12	13	20.99	20.96	20.82			
5	HQAM	25	0	21.00	20.92	20.81			
5	HQAM	1	0	18.96	18.96	18.96	20.5		
5	HQAM	1	12	18.95	18.97	18.86			
5	HQAM	1	24	18.99	18.93	18.95			
5	HQAM	12	0	18.92	18.88	18.88	20.5		
5	HQAM	12	13	18.92	18.95	18.82			
5	HQAM	25	0	18.87	18.86	18.90			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.83	23.88	23.75	25.5		
3	QPSK	1	6	23.81	23.83	23.68			
3	QPSK	1	14	23.70	23.71	23.61			
3	QPSK	6	0	22.88	22.96	22.83	24.5		
3	QPSK	6	4	22.94	22.99	22.88			
3	QPSK	6	7	22.84	22.88	22.75			
3	QPSK	12	0	22.86	22.91	22.84	24.5		
3	HQAM	1	0	23.23	23.23	23.19			
3	HQAM	1	6	23.18	23.17	22.90			
3	HQAM	1	14	23.09	23.06	22.90	24.5		
3	HQAM	6	0	21.84	21.95	21.87			
3	HQAM	6	4	21.91	21.88	21.91			
3	HQAM	6	7	21.04	21.08	21.77	23.5		
3	HQAM	12	0	21.96	21.80	21.87			
3	HQAM	1	0	21.07	22.10	21.97			
3	HQAM	1	6	21.08	22.05	21.99	23.5		
3	HQAM	1	14	21.07	21.96	21.80			
3	HQAM	6	1	20.88	20.91	20.80			
3	HQAM	12	0	21.00	20.90	20.80	22.5		
3	HQAM	6	7	20.89	20.94	20.80			
3	HQAM	12	0	20.96	20.98	20.88			
3	HQAM	1	0	18.89	18.89	18.89	20.5		
3	HQAM	1	6	18.90	18.98	18.83			
3	HQAM	6	0	18.77	18.80	18.88			
3	HQAM	6	4	18.84	18.92	18.80	20.5		
3	HQAM	6	7	18.89	18.92	18.78			
3	HQAM	12	0	18.92	18.85	18.93			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.78	23.79	23.62	25.5		
1.4	QPSK	1	3	23.81	23.82	23.70			
1.4	QPSK	1	6	23.75	23.77	23.61			
1.4	QPSK	3	0	22.80	22.85	22.87	24.5		
1.4	QPSK	3	1	22.85	22.88	22.80			
1.4	QPSK	3	3	22.81	22.82	22.83			
1.4	QPSK	6	0	22.87	22.87	22.71	24.5		
1.4	HQAM	1	0	23.06	23.12	22.99			
1.4	HQAM	1	3	23.17	23.19	23.01			
1.4	HQAM	1							



Band 71_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dB)		
Channel									
Frequency (MHz)									
				693	693	698			
20	QPSK	1	0	2348	2348	2337		25	
20	QPSK	1	49	2342	2341	2337			
20	QPSK	1	99	2336	2339	2338			
20	QPSK	60	0	2297	2298	2248		24	
20	QPSK	50	24	2254	2249	2248			
20	QPSK	50	50	2258	2251	2250			
20	QPSK	100	0	2251	2252	2248			
20	16QAM	1	0	2288	2282	2274		24	
20	16QAM	1	49	2277	2277	2276			
20	16QAM	1	99	2271	2272	2271			
20	16QAM	50	0	2159	2153	2148		23	
20	16QAM	50	24	2161	2161	2149			
20	16QAM	50	50	2158	2153	2150			
20	16QAM	100	0	2159	2148	2148			
20	16QAM	1	0	2173	2167	2163		23	
20	16QAM	1	49	2158	2150	2158			
20	16QAM	1	99	2159	2163	2160			
20	16QAM	50	0	2059	2058	2047		22	
20	16QAM	50	24	2083	2054	2051			
20	16QAM	50	50	2080	2058	2053			
20	16QAM	100	0	2081	2052	2049			
20	256QAM	1	0	1858	1844	1837		20	
20	256QAM	1	49	1857	1832	1846			
20	256QAM	1	99	1846	1845	1849			
20	256QAM	50	0	1847	1843	1830		20	
20	256QAM	50	24	1841	1835	1829			
20	256QAM	50	50	1835	1835	1827			
20	256QAM	100	0	1843	1838	1829			
Channel									
Frequency (MHz)									
				670.5	680.5	690.5		Turn-up (dB)	
15	QPSK	1	0	2341	2348	2329		25	
15	QPSK	1	49	2340	2337	2330			
15	QPSK	1	74	2325	2330	2327			
15	QPSK	30	0	2249	2248	2241		24	
15	QPSK	30	20	2250	2245	2240			
15	QPSK	30	39	2247	2241	2244			
15	QPSK	75	0	2247	2245	2242			
15	16QAM	1	0	2288	2282	2271		24	
15	16QAM	1	39	2275	2267	2268			
15	16QAM	1	74	2268	2270	2270			
15	16QAM	30	0	2153	2153	2144		23	
15	16QAM	30	20	2158	2142	2144			
15	16QAM	30	39	2148	2151	2146			
15	16QAM	75	0	2153	2141	2144			
15	16QAM	1	0	2168	2157	2162		23	
15	16QAM	1	39	2158	2151	2155			
15	16QAM	1	74	2150	2158	2160			
15	16QAM	30	0	2047	2049	2042		22	
15	16QAM	30	20	2062	2054	2050			
15	16QAM	30	39	2052	2054	2050			
15	16QAM	75	0	2058	2048	2049			
15	256QAM	1	0	1853	1840	1835		20	
15	256QAM	1	39	1852	1831	1843			
15	256QAM	1	74	1846	1835	1847			
15	256QAM	30	0	1843	1840	1834		20	
15	256QAM	30	20	1838	1835	1823			
15	256QAM	30	39	1830	1830	1822			
15	256QAM	75	0	1839	1833	1819			
Channel									
Frequency (MHz)									
				13312	13322	13342		Turn-up (dB)	
5	QPSK	1	0	2341	2345	2331		25	
5	QPSK	1	10	2338	2341	2331			
5	QPSK	1	24	2328	2338	2329			
5	QPSK	10	0	2250	2255	2238		24	
5	QPSK	12	7	2245	2243	2230			
5	QPSK	12	13	2250	2244	2248			
5	QPSK	24	0	2243	2244	2242			
5	16QAM	1	0	2279	2277	2265		24	
5	16QAM	1	10	2270	2274	2267			
5	16QAM	1	24	2262	2269	2262			
5	16QAM	12	0	2149	2152	2148		23	
5	16QAM	12	13	2154	2146	2140			
5	16QAM	12	13	2149	2148	2149			
5	16QAM	25	0	2153	2139	2148		23	
5	16QAM	1	10	2173	2160	2158			
5	16QAM	1	10	2182	2188	2185			
5	16QAM	11	24	2159	2160	2159			
5	16QAM	12	0	2048	2047	2043		22	
5	16QAM	12	7	2061	2053	2049			
5	16QAM	12	13	2059	2054	2049			
5	16QAM	25	0	2059	2052	2047			
5	256QAM	1	0	1855	1838	1849		20	
5	256QAM	1	10	1857	1832	1846			
5	256QAM	1	24	1842	1841	1848			
5	256QAM	12	0	1847	1835	1832		20	
5	256QAM	12	13	1840	1832	1827			
5	256QAM	12	13	1830	1828	1820			
5	256QAM	25	0	1834	1827	1822			



Band 2_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit			
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.89	24.03	24.14	25.7			
20	QPSK	1	48	23.89	24.13	24.23				
20	QPSK	1	96	24.08	24.14	24.18				
20	QPSK	66	0	23.00	23.15	23.32	24.7			
20	QPSK	50	24	23.14	23.25	23.28				
20	QPSK	50	50	23.16	23.30	23.35				
20	QPSK	100	0	22.14	22.18	22.32	24.7			
20	HQAM	1	0	23.27	23.30	23.51				
20	HQAM	1	48	23.16	23.49	23.35				
20	HQAM	50	0	23.34	23.42	23.48	23.7			
20	HQAM	50	50	22.03	22.09	22.27				
20	HQAM	50	25	22.13	22.22	22.26				
20	HQAM	50	50	22.24	22.33	22.40	23.7			
20	HQAM	100	0	22.14	22.21	22.20				
20	HQAM	1	48	22.07	22.33	21.57				
20	HQAM	1	96	22.27	22.43	21.88	22.7			
20	HQAM	50	0	21.18	21.28	20.75				
20	HQAM	50	24	21.18	21.28	20.74				
20	HQAM	50	50	21.16	21.30	20.98	20.7			
20	HQAM	100	0	21.14	21.23	20.70				
20	SBSQAM	1	0	19.83	19.88	19.70				
20	SBSQAM	1	48	19.82	19.72	19.74	20.7			
20	SBSQAM	1	96	19.87	19.78	19.81				
20	SBSQAM	50	0	19.86	19.83	19.80				
20	SBSQAM	50	24	19.83	19.85	19.88	20.7			
20	SBSQAM	50	50	19.70	19.77	19.77				
20	SBSQAM	100	0	19.82	19.82	19.71				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.84	23.97	24.16	25.7			
15	QPSK	1	48	23.83	24.04	24.13				
15	QPSK	1	74	24.08	24.12	24.11				
15	QPSK	36	0	23.00	23.16	23.15	24.7			
15	QPSK	36	36	23.04	23.25	23.28				
15	QPSK	36	39	23.15	23.30	23.34				
15	QPSK	72	0	23.13	23.16	23.23	24.7			
15	HQAM	1	0	23.22	23.28	23.35				
15	HQAM	1	37	23.08	23.41	23.25				
15	HQAM	1	74	23.10	23.22	23.44	23.7			
15	HQAM	36	0	23.06	23.03	23.27				
15	HQAM	36	36	22.08	22.16	22.24				
15	HQAM	36	39	22.04	22.05	22.30	23.7			
15	HQAM	72	0	22.10	22.15	22.14				
15	HQAM	1	0	22.48	22.09	22.28				
15	HQAM	1	74	22.20	22.25	21.78	22.7			
15	HQAM	36	0	21.10	21.15	20.70				
15	HQAM	36	36	21.17	21.17	20.71				
15	HQAM	36	39	21.09	21.28	20.83	20.7			
15	SBSQAM	72	0	21.13	21.15	20.70				
15	SBSQAM	1	0	19.82	19.49	19.83				
15	SBSQAM	1	37	19.52	19.83	19.84	20.7			
15	SBSQAM	1	74	19.83	19.83	19.84				
15	SBSQAM	36	36	19.51	19.50	19.50				
15	SBSQAM	36	39	19.81	19.88	19.88	20.7			
15	SBSQAM	36	20	19.86	19.71	19.71				
15	SBSQAM	72	0	19.54	19.55	19.71				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.89	23.98	24.11	25.7			
10	QPSK	1	25	23.88	24.05	24.08				
10	QPSK	1	49	24.08	24.05	24.12				
10	QPSK	25	0	22.82	23.13	23.12	24.7			
10	QPSK	25	12	23.08	23.18	23.19				
10	QPSK	25	25	23.02	23.21	23.28				
10	QPSK	66	0	23.12	23.06	23.31	24.7			
10	HQAM	1	0	23.18	23.23	23.41				
10	HQAM	1	25	23.15	23.47	23.32				
10	HQAM	1	49	23.33	23.37	23.40	23.7			
10	HQAM	25	0	23.08	23.07	23.31				
10	HQAM	25	12	22.08	22.19	22.23				
10	HQAM	25	25	22.20	22.28	22.34	23.7			
10	HQAM	66	0	22.08	22.13	22.10				
10	HQAM	1	0	22.46	22.12	22.33				
10	HQAM	1	25	22.07	22.30	21.70	22.7			
10	HQAM	25	0	21.87	21.11	20.70				
10	HQAM	25	12	21.10	21.19	20.71				
10	HQAM	25	25	21.15	21.21	20.86	20.7			
10	HQAM	50	0	21.08	21.20	20.70				
10	SBSQAM	1	25	19.55	19.69	19.70				
10	SBSQAM	1	49	19.87	19.69	19.88	20.7			
10	SBSQAM	25	0	19.78	19.67	19.82				
10	SBSQAM	25	12	19.52	19.54	19.83				
10	SBSQAM	25	25	19.62	19.76	19.77	20.7			
10	SBSQAM	50	0	19.67	19.67	19.68				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.83	23.87	24.12	25.7			
5	QPSK	1	12	23.86	24.00	24.16				
5	QPSK	1	24	24.04	24.07	24.08				
5	QPSK	12	0	22.83	23.12	23.13	24.7			
5	QPSK	12	7	23.11	23.19	23.19				
5	QPSK	12	13	23.13	23.23	23.27				
5	QPSK	24	0	23.11	23.13	23.29	24.7			
5	HQAM	1	0	23.18	23.27	23.41				
5	HQAM	1	12	23.16	23.46	23.27				
5	HQAM	1	24	23.28	23.40	23.44	23.7			
5	HQAM	12	0	23.08	22.00	22.25				
5	HQAM	12	13	22.05	22.14	22.36				
5	HQAM	12	13	22.16	22.33	22.33	23.7			
5	HQAM	25	0	22.05	22.21	22.13				
5	HQAM	1	0	22.46	22.19	22.29				
5	HQAM	1	12	22.83	22.82	21.70	22.7			
5	HQAM	1	24	22.24	22.41	21.81				
5	HQAM	12	0	21.04	21.18	20.70				
5	HQAM	12	7	21.10	21.25	20.70	20.7			
5	HQAM	25	13	21.11	21.22	20.84				
5	HQAM	1	0	21.09	21.21	20.70				
5	SBSQAM	1	0	19.87	19.58	19.60	20.7			
5	SBSQAM	1	12	19.69	19.64	19.72				
5	SBSQAM	1	24	19.82	19.72	19.88				
5	SBSQAM	12	0	19.80	19.44	19.59	20.7			
5	SBSQAM	12	7	19.87	19.59	19.59				
5	SBSQAM	12	13	19.81	19.72	19.71				
5	SBSQAM	25	0	19.58	19.58	19.68	20.7			
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.88	23.94	24.12	25.7			
1.4	QPSK	1	3	23.90	24.15	24.16				
1.4	QPSK	1	6	23.81	24.09	24.10				
1.4	QPSK	3	0	24.03	24.06	24.05	24.7			
1.4	QPSK	3	0	22.05	23.15	23.13				
1.4	QPSK	3	4	23.07	23.18	23.25				
1.4	QPSK	3	7	23.09	23.24	23.29	24.7			
1.4	QPSK	6	0	23.12	23.14	23.23				
1.4	HQAM	1	0	23.19	23.27	23.46				
1.4	HQAM	1	8	23.08	23.46	23.29	24.7			
1.4	HQAM	1	11	23.05	23.36	23.42				
1.4	HQAM	3	0	22.03	21.59	22.27				
1.4	HQAM	3	4	22.03	22.18	22.22	23.7			
1.4	HQAM	6	0	22.18	22.28	22.38				
1.4	HQAM	18	0	22.14	22.12	22.18				
1.4	HQAM	1	0	22.38	22.11	22.28	23.7			
1.4	HQAM	1	6	21.09	22.30	21.70				
1.4	HQAM	1	14	22.20	22.38	21.81				
1.4	HQAM	3	0	21.08	21.18	20.70	22.7			
1.4	HQAM	3	4	21.15	21.21	20.70				
1.4	HQAM	3	7	21.08	21.28	20.88				
1.4	HQAM	6	0	21.06	21.23	20.70	20.7			
1.4	SBSQAM	1	0	19.87	19.58	19.67				
1.4	SBSQAM	1	8	19.82	19.83	19.72				
1.4	SBSQAM	1	11	19.84	19.77	19.80	20.7			
1.4	SBSQAM	1	6	19.81	19.44	19.57				
1.4	SBSQAM	1	5	19.78	19.65	19.82				
1.4	SBSQAM	3	0	19.86	19.59	19.68	20.7			
1.4	SBSQAM	3	7	19.80	19.73	19.78				
1.4	SBSQAM	3	1	19.88	19.80	19.87				
1.4	SBSQAM	3	3	19.82	19.87	19.78	20.7			
1.4	SBSQAM	6	0	19.67	19.54	19.68				



Band 4_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Pwr	Power High Pwr	Power Max Pwr	Power Min Pwr	Power Avg Pwr	Time-up (sec)
Channel									
Frequency (MHz)									
1720 1725.5 1745									
20	QPSK	1	0	24.21	24.21	24.21	24.21	24.21	25.7
20	QPSK	1	49	24.24	24.22	24.22	24.18	24.18	
20	QPSK	1	99	24.27	24.27	24.27	24.29	24.29	
20	QPSK	60	0	23.92	23.96	23.96	23.93	23.93	
20	QPSK	50	24	23.44	23.37	23.37	23.32	23.32	
20	QPSK	50	50	23.38	23.40	23.40	23.34	23.34	
20	QPSK	100	0	23.38	23.41	23.41	23.31	23.31	
20	HQAM	1	0	23.55	23.58	23.58	23.56	23.56	
20	HQAM	1	49	23.52	23.60	23.60	23.57	23.57	
20	HQAM	1	99	23.64	23.53	23.53	23.53	23.53	
20	HQAM	50	0	22.37	22.41	22.41	22.37	22.37	
20	HQAM	50	24	22.45	22.38	22.38	22.36	22.36	
20	HQAM	50	50	22.41	22.42	22.42	22.35	22.35	
20	HQAM	100	0	22.37	22.37	22.37	22.28	22.28	
20	HQAM	1	0	22.76	22.81	22.81	22.84	22.84	
20	HQAM	1	49	22.40	22.39	22.39	22.38	22.38	
20	HQAM	1	99	22.45	22.21	22.21	22.24	22.24	
20	HQAM	50	0	22.12	22.43	22.43	22.08	22.08	
20	HQAM	50	24	21.44	21.22	21.22	21.32	21.32	
20	HQAM	50	50	21.41	21.05	21.05	21.38	21.38	
20	HQAM	100	0	21.37	21.28	21.28	21.32	21.32	
20	SSBQAM	1	0	19.70	19.86	19.86	19.85	19.85	
20	SSBQAM	1	49	19.86	19.72	19.72	19.80	19.80	
20	SSBQAM	1	99	19.89	19.84	19.84	19.89	19.89	
20	SSBQAM	50	0	19.86	19.72	19.72	19.71	19.71	
20	SSBQAM	50	24	19.75	19.75	19.75	19.81	19.81	
20	SSBQAM	50	50	19.81	19.81	19.81	19.88	19.88	
20	SSBQAM	100	0	19.79	19.72	19.72	19.87	19.87	
Channel									
Frequency (MHz)									
1777.5 1792.5 1747.5									
15	QPSK	1	0	24.15	24.31	24.31	24.22	24.22	25.7
15	QPSK	1	49	24.15	24.11	24.11	24.12	24.12	
15	QPSK	1	74	24.21	24.25	24.25	24.29	24.29	
15	QPSK	30	0	23.30	23.35	23.35	23.25	23.25	
15	QPSK	30	20	23.43	23.30	23.30	23.22	23.22	
15	QPSK	30	39	23.37	23.35	23.35	23.24	23.24	
15	QPSK	75	0	23.39	23.39	23.39	23.26	23.26	
15	HQAM	1	0	23.59	23.58	23.58	23.56	23.56	
15	HQAM	1	37	23.52	23.53	23.53	23.48	23.48	
15	HQAM	1	74	23.58	23.44	23.44	23.45	23.45	
15	HQAM	30	0	22.37	22.38	22.38	22.35	22.35	
15	HQAM	30	20	22.38	22.30	22.30	22.24	22.24	
15	HQAM	30	39	22.34	22.36	22.36	22.33	22.33	
15	HQAM	75	0	22.33	22.31	22.31	22.16	22.16	
15	HQAM	1	0	21.72	22.42	22.42	21.88	21.88	
15	HQAM	1	37	22.47	22.33	22.33	22.38	22.38	
15	HQAM	1	74	22.42	22.12	22.12	22.21	22.21	
15	HQAM	30	0	21.11	21.42	21.42	21.00	21.00	
15	HQAM	30	20	21.44	21.19	21.19	21.31	21.31	
15	HQAM	30	39	21.40	20.96	20.96	21.30	21.30	
15	HQAM	75	0	21.31	21.17	21.17	21.28	21.28	
15	SSBQAM	1	0	19.70	19.83	19.83	19.83	19.83	
15	SSBQAM	1	37	19.96	19.85	19.85	19.86	19.86	
15	SSBQAM	1	74	19.86	19.86	19.86	19.81	19.81	
15	SSBQAM	30	0	19.83	19.69	19.69	19.83	19.83	
15	SSBQAM	30	20	19.67	19.72	19.72	19.81	19.81	
15	SSBQAM	30	39	19.77	19.75	19.75	19.80	19.80	
15	SSBQAM	75	0	19.79	19.69	19.69	19.81	19.81	
Channel									
Frequency (MHz)									
1816 1817.5 1819.5									
10	QPSK	1	0	24.20	24.26	24.26	24.24	24.24	25.7
10	QPSK	1	25	24.18	24.21	24.21	24.13	24.13	
10	QPSK	1	49	24.22	24.18	24.18	24.24	24.24	
10	QPSK	25	0	23.28	23.32	23.32	23.20	23.20	
10	QPSK	25	12	23.42	23.32	23.32	23.29	23.29	
10	QPSK	25	25	23.33	23.32	23.32	23.24	23.24	
10	QPSK	50	0	23.33	23.32	23.32	23.24	23.24	
10	HQAM	1	0	23.59	23.56	23.56	23.52	23.52	
10	HQAM	1	25	23.48	23.59	23.59	23.56	23.56	
10	HQAM	1	49	23.60	23.52	23.52	23.53	23.53	
10	HQAM	25	0	22.34	22.34	22.34	22.29	22.29	
10	HQAM	25	12	22.40	22.38	22.38	22.20	22.20	
10	HQAM	25	25	22.38	22.34	22.34	22.29	22.29	
10	HQAM	50	0	22.31	22.37	22.37	22.22	22.22	
10	HQAM	1	0	21.71	22.51	22.51	21.91	21.91	
10	HQAM	1	25	22.45	22.30	22.30	22.30	22.30	
10	HQAM	1	49	22.43	22.14	22.14	22.45	22.45	
10	HQAM	25	0	21.84	21.38	21.38	21.00	21.00	
10	HQAM	25	12	21.41	21.18	21.18	21.27	21.27	
10	HQAM	25	25	21.32	21.05	21.05	21.38	21.38	
10	HQAM	50	0	21.33	21.18	21.18	21.29	21.29	
10	SSBQAM	1	0	19.70	19.87	19.87	19.77	19.77	
10	SSBQAM	1	25	19.52	19.71	19.71	19.81	19.81	
10	SSBQAM	1	49	19.79	19.90	19.90	19.87	19.87	
10	SSBQAM	25	0	19.85	19.84	19.84	19.81	19.81	
10	SSBQAM	25	12	19.75	19.72	19.72	19.53	19.53	
10	SSBQAM	25	25	19.74	19.75	19.75	19.85	19.85	
10	SSBQAM	50	0	19.73	19.86	19.86	19.84	19.84	
Channel									
Frequency (MHz)									
1867 1872.5 1877.5									
5	QPSK	1	0	24.13	24.22	24.22	24.31	24.31	25.7
5	QPSK	1	12	24.21	24.14	24.14	24.16	24.16	
5	QPSK	1	24	24.23	24.20	24.20	24.19	24.19	
5	QPSK	15	0	23.22	23.38	23.38	23.25	23.25	
5	QPSK	12	7	23.42	23.27	23.27	23.22	23.22	
5	QPSK	12	15	23.28	23.33	23.33	23.34	23.34	
5	QPSK	24	0	23.29	23.35	23.35	23.23	23.23	
5	HQAM	1	0	23.47	23.48	23.48	23.50	23.50	
5	HQAM	1	12	23.45	23.52	23.52	23.53	23.53	
5	HQAM	1	24	23.56	23.45	23.45	23.48	23.48	
5	HQAM	12	0	22.34	22.34	22.34	22.28	22.28	
5	HQAM	12	7	22.38	22.30	22.30	22.21	22.21	
5	HQAM	12	15	22.34	22.35	22.35	22.32	22.32	
5	HQAM	24	0	22.36	22.34	22.34	22.21	22.21	
5	HQAM	1	0	21.70	22.44	22.44	21.86	21.86	
5	HQAM	1	12	22.41	22.32	22.32	22.33	22.33	
5	HQAM	1	24	22.45	22.13	22.13	22.50	22.50	
5	HQAM	12	0	21.12	21.34	21.34	21.06	21.06	
5	HQAM	12	7	21.37	21.16	21.16	21.30	21.30	
5	HQAM	12	15	21.11	21.00	21.00	21.11	21.11	
5	HQAM	24	0	21.27	21.22	21.22	21.22	21.22	
5	SSBQAM	1	0	19.67	19.86	19.86	19.77	19.77	
5	SSBQAM	1	12	19.86	19.72	19.72	19.84	19.84	
5	SSBQAM	1	24	19.88	19.80	19.80	19.86	19.86	
5	SSBQAM	12	0	19.58	19.62	19.62	19.71	19.71	
5	SSBQAM	12	7	19.68	19.73	19.73	19.54	19.54	
5	SSBQAM	12	15	19.79	19.76	19.76	19.62	19.62	
5	SSBQAM	24	0	19.69	19.84	19.84	19.86	19.86	
Channel									
Frequency (MHz)									
1711.5 1752.5 1753.5									
3	QPSK	1	0	24.20	24.22	24.22	24.24	24.24	25.7
3	QPSK	1	6	24.22	24.22	24.22	24.12	24.12	
3	QPSK	1	14	24.20	24.27	24.27	24.19	24.19	
3	QPSK	6	0	23.22	23.38	23.38	23.29	23.29	
3	QPSK	6	4	23.38	23.30	23.30	23.25	23.25	
3	QPSK	6	7	23.53	23.32	23.32	23.34	23.34	
3	QPSK	12	0	23.35	23.46	23.46	23.22	23.22	
3	HQAM	1	0	23.49	23.49	23.49	23.52	23.52	
3	HQAM	1	6	23.50	23.55	23.55	23.47	23.47	
3	HQAM	1	14	23.57	23.46	23.46	23.52	23.52	
3	HQAM	6	0	22.36	22.41	22.41	22.30	22.30	
3	HQAM	6	4	22.37	22.34	22.34	22.28	22.28	
3	HQAM	6	7	22.31	22.36	22.36	22.32	22.32	
3	HQAM	12	0	22.35	22.36	22.36	22.24	22.24	
3	HQAM	1	0	21.70	22.51	22.51	21.92	21.92	
3	HQAM	1	6	22.49	22.32	22.32	22.29	22.29	
3	HQAM	1	14	22.38	22.19	22.19	22.47	22.47	
3	HQAM	6	0	21.68	21.64	21.64	20.90	20.90	
3	HQAM	6	4	21.41	21.17	21.17	21.24	21.24	
3	HQAM	6	7	21.32	20.98	20.98	21.38	21.38	
3	HQAM	12	0	21.34	21.25	21.25	21.31	21.31	
3	SSBQAM	1	0	19.67	19.83	19.83	19.84	19.84	
3	SSBQAM	1	6	19.86	19.63	19.63	19.85	19.85	
3	SSBQAM	1	14	19.85	19.84	19.84	19.80	19.80	
3	SSBQAM	6	0	19.61	19.71	19.71	19.65	19.65	
3	SSBQAM	6	4	19.74	19.73	19.73	19.57	19.57	
3	SSBQAM	6	7	19.71	19.78	19.78	19.59	19.59	
3	SSBQAM	12	0	19.73	19.88	19.88	19.63	19.63	
Channel									
Frequency (MHz)									
1767 1767.5 1769.5									
1.4	QPSK	1	0	24.05	24.22	24.22	24.04	24.04	25.7





Band 5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up time (min)		
Channel				ISO	ISO	ISO			
Frequency (MHz)				ISO	ISO	ISO			
10	QPSK	1	0	2448	2454	2460			
10	QPSK	1	25	2448	2452	2456			
10	QPSK	1	49	2448	2448	2443			25.7
10	QPSK	25	0	2395	2394	2393			
10	QPSK	25	12	2389	2385	2382			24.7
10	QPSK	25	25	2383	2387	2392			
10	QPSK	50	0	2327	2324	2320			
10	QPSK	1	0	2388	2389	2394			
10	HQAM	1	25	2390	2393	2391			24.7
10	HQAM	1	49	2395	2390	2391			
10	HQAM	25	0	2257	2252	2259			
10	HQAM	25	12	2255	2254	2257			23.7
10	HQAM	25	25	2264	2263	2256			
10	HQAM	50	0	2228	2232	2228			
10	HQAM	1	0	2284	2278	2270			
10	HQAM	1	25	2252	2257	2252			23.7
10	HQAM	1	49	2282	2281	2278			
10	HQAM	25	0	2162	2166	2164			
10	HQAM	25	12	2171	2169	2167			22.7
10	HQAM	25	25	2186	2170	2157			
10	HQAM	50	0	2170	2166	2162			
10	SSBQAM	1	0	1940	1933	1932			
10	SSBQAM	1	25	1944	1945	1944			20.7
10	SSBQAM	49	0	1932	1948	1937			
10	SSBQAM	25	0	1941	1941	1943			
10	SSBQAM	25	12	1944	1938	1938			20.7
10	SSBQAM	25	25	1934	1938	1938			
10	SSBQAM	50	0	1944	1937	1938			
Channel				ISO	ISO	ISO			
Frequency (MHz)				ISO	ISO	ISO			
5	QPSK	1	0	2454	2452	2448			
5	QPSK	1	25	2450	2453	2448			25.7
5	QPSK	1	24	2446	2448	2448			
5	QPSK	12	0	2399	2370	2381			
5	QPSK	12	4	2398	2387	2385			24.7
5	QPSK	12	13	2380	2385	2384			
5	QPSK	25	0	2383	2369	2355			
5	HQAM	1	0	2399	2395	2389			
5	HQAM	1	12	2389	2395	2383			24.7
5	HQAM	1	24	2389	2381	2378			
5	HQAM	12	0	2284	2272	2281			
5	HQAM	12	7	2288	2289	2288			23.7
5	HQAM	12	13	2281	2287	2282			
5	HQAM	25	0	2269	2271	2258			
5	HQAM	1	0	2281	2280	2282			
5	HQAM	1	24	2282	2286	2287			23.7
5	HQAM	12	0	2189	2175	2187			
5	HQAM	12	7	2173	2175	2141			22.7
5	HQAM	12	13	2188	2170	2122			
5	HQAM	25	0	2189	2174	2145			
5	SSBQAM	1	0	1933	1948	1944			20.7
5	SSBQAM	1	12	1940	1941	1941			
5	SSBQAM	1	24	1938	1948	1934			
5	SSBQAM	12	0	1935	1932	1943			
5	SSBQAM	12	7	1937	1928	1930			20.7
5	SSBQAM	12	13	1933	1938	1938			
5	SSBQAM	25	0	1934	1937	1931			
Channel				ISO	ISO	ISO			
Frequency (MHz)				ISO	ISO	ISO			
3	QPSK	1	0	2380	2387	2385			
3	QPSK	1	8	2387	2394	2383			25.7
3	QPSK	8	0	2378	2383	2371			
3	QPSK	8	0	2289	2293	2287			
3	QPSK	8	4	2295	2301	2287			24.7
3	QPSK	8	0	2288	2293	2283			
3	QPSK	16	0	2290	2297	2286			
3	HQAM	1	0	2311	2317	2311			24.7
3	HQAM	1	8	2315	2320	2313			
3	HQAM	1	14	2311	2318	2303			
3	HQAM	8	0	2195	2200	2194			
3	HQAM	8	4	2198	2206	2196			23.7
3	HQAM	8	7	2195	2198	2187			
3	HQAM	16	0	2196	2201	2190			
3	HQAM	1	0	2103	2215	2190			23.7
3	HQAM	1	8	2313	2221	2171			
3	HQAM	1	14	2302	2299	2170			
3	HQAM	8	0	2190	2180	2078			
3	HQAM	8	4	2194	2103	2178			22.7
3	HQAM	8	7	2189	2098	2171			
3	HQAM	16	0	2192	2098	2172			
3	SSBQAM	1	0	1945	1945	1946			20.7
3	SSBQAM	1	14	1938	1947	1929			
3	SSBQAM	8	0	1938	1941	1930			
3	SSBQAM	8	4	1935	1939	1927			20.7
3	SSBQAM	8	7	1933	1933	1920			
3	SSBQAM	16	0	1938	1938	1931			
Channel				ISO	ISO	ISO			
Frequency (MHz)				ISO	ISO	ISO			
1.4	QPSK	1	0	2311	2319	2320			
1.4	QPSK	1	3	2380	2386	2376			25.7
1.4	QPSK	1	5	2370	2380	2371			
1.4	QPSK	3	0	2389	2380	2375			
1.4	QPSK	3	1	2383	2380	2380			
1.4	QPSK	3	3	2378	2381	2372			24.7
1.4	QPSK	6	0	2283	2291	2277			
1.4	HQAM	1	0	2305	2311	2307			
1.4	HQAM	1	5	2314	2321	2312			24.7
1.4	HQAM	1	5	2307	2312	2300			
1.4	HQAM	3	0	2289	2289	2282			
1.4	HQAM	3	1	2293	2300	2286			
1.4	HQAM	3	1	2283	2291	2278			
1.4	HQAM	6	0	2191	2199	2186			23.7
1.4	HQAM	1	0	2198	2204	2172			
1.4	HQAM	1	3	2210	2215	2178			
1.4	HQAM	1	6	2200	2204	2172			23.7
1.4	HQAM	3	0	2199	2197	2173			
1.4	HQAM	3	1	2194	2200	2173			
1.4	HQAM	3	1	2189	2183	2173			22.7
1.4	HQAM	6	0	2078	2084	2071			
1.4	SSBQAM	1	0	1940	1948	1947			
1.4	SSBQAM	1	3	1937	1941	1941			20.7
1.4	SSBQAM	1	5	1947	1947	1927			
1.4	SSBQAM	3	0	1931	1939	1938			
1.4	SSBQAM	3	0	1944	1938	1938			
1.4	SSBQAM	3	1	1927	1938	1923			
1.4	SSBQAM	6	0	1938	1938	1930			20.7



Band 7_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up time (min)			
Channel				2560	2608	2656				
Frequency (MHz)				2560	2608	2656				
20	QPSK	1	0	2460	2484	2488	25.7			
20	QPSK	1	49	2467	2475	2470				
20	QPSK	1	99	2471	2479	2473				
20	QPSK	60	0	2378	2378	2378	24.7			
20	QPSK	50	24	2388	2384	2380				
20	QPSK	50	50	2389	2394	2389				
20	HQAM	100	0	2388	2384	2378	24.7			
20	HQAM	1	0	2388	2401	2388				
20	HQAM	1	49	2405	2407	2406				
20	HQAM	1	99	2405	2415	2403	23.7			
20	HQAM	50	0	2277	2281	2277				
20	HQAM	50	24	2286	2286	2283				
20	HQAM	50	50	2293	2298	2292	23.7			
20	HQAM	100	0	2288	2283	2278				
20	HQAM	1	0	2281	2285	2281				
20	HQAM	1	49	2293	2295	2277	22.7			
20	HQAM	1	99	2300	2306	2278				
20	HQAM	50	0	2188	2184	2178				
20	HQAM	50	24	2193	2189	2177	22.7			
20	HQAM	50	50	2193	2196	2187				
20	HQAM	100	0	2192	2184	2182				
20	HQAM	1	0	2022	2038	1988	20.7			
20	HQAM	1	49	2033	2038	2037				
20	HQAM	1	99	2034	2038	2011				
20	HQAM	50	0	2003	2001	1994	20.7			
20	HQAM	50	24	2012	2007	1995				
20	HQAM	50	50	2012	2000	2003				
20	HQAM	100	0	2013	1999	1993	20.7			
Channel				2577.5	2610	2633.5		Turn-up time		
Frequency (MHz)				2577.5	2635	2662.5				
15	QPSK	1	0	2454	2459	2458	25.7			
15	QPSK	1	49	2458	2472	2484				
15	QPSK	1	74	2463	2470	2463				
15	QPSK	30	0	2372	2376	2385	24.7			
15	QPSK	30	20	2378	2384	2371				
15	QPSK	30	39	2384	2385	2385				
15	QPSK	75	0	2378	2379	2374	24.7			
15	HQAM	1	0	2395	2398	2392				
15	HQAM	1	39	2400	2405	2398				
15	HQAM	1	74	2398	2407	2393	23.7			
15	HQAM	30	0	2279	2279	2274				
15	HQAM	30	20	2283	2279	2282				
15	HQAM	30	39	2286	2299	2282	23.7			
15	HQAM	75	0	2278	2278	2272				
15	HQAM	1	0	2277	2284	2285				
15	HQAM	1	74	2285	2286	2288	22.7			
15	HQAM	1	74	2285	2304	2289				
15	HQAM	30	0	2180	2183	2175				
15	HQAM	30	20	2190	2188	2177	22.7			
15	HQAM	30	39	2190	2191	2185				
15	HQAM	75	0	2184	2179	2176				
15	HQAM	1	0	2020	2023	1988	20.7			
15	HQAM	1	39	2030	2035	2035				
15	HQAM	1	74	2031	2011	2005				
15	HQAM	30	0	1935	1935	1938	20.7			
15	HQAM	30	20	2007	1999	1985				
15	HQAM	30	39	2007	1996	2000				
15	HQAM	75	0	2008	1994	1985	20.7			
Channel				2090	2100	2160		Turn-up time		
Frequency (MHz)				2090	2165	2265				
10	QPSK	1	0	2458	2464	2457	25.7			
10	QPSK	1	25	2458	2470	2462				
10	QPSK	1	49	2462	2473	2471				
10	QPSK	25	0	2373	2386	2375	24.7			
10	QPSK	25	12	2381	2374	2380				
10	QPSK	25	25	2387	2388	2380				
10	QPSK	50	0	2376	2379	2375	24.7			
10	HQAM	1	0	2394	2401	2394				
10	HQAM	1	25	2398	2404	2399				
10	HQAM	1	49	2405	2407	2395	24.7			
10	HQAM	25	0	2276	2286	2275				
10	HQAM	25	12	2287	2276	2282				
10	HQAM	25	25	2285	2296	2287	23.7			
10	HQAM	50	0	2284	2280	2280				
10	HQAM	1	0	2274	2277	2284				
10	HQAM	1	25	2283	2295	2274	23.7			
10	HQAM	1	49	2295	2299	2292				
10	HQAM	25	0	2178	2174	2178				
10	HQAM	25	12	2185	2186	2170	22.7			
10	HQAM	25	25	2193	2189	2186				
10	HQAM	50	0	2184	2178	2172				
10	HQAM	1	0	2017	1998	1987	20.7			
10	HQAM	1	25	2023	2007	2001				
10	HQAM	1	49	2014	2010	2004				
10	HQAM	25	0	1993	2003	1994	20.7			
10	HQAM	25	12	2008	2000	1995				
10	HQAM	25	25	2015	1990	1997				
10	HQAM	50	0	2003	1999	1992	20.7			
Channel				2077.5	2100	2165		Turn-up time		
Frequency (MHz)				2077.5	2215	2277.5				
5	QPSK	1	0	2454	2452	2451	25.7			
5	QPSK	1	12	2459	2465	2467				
5	QPSK	1	24	2468	2472	2469				
5	QPSK	15	0	2370	2370	2371	24.7			
5	QPSK	12	7	2381	2374	2370				
5	QPSK	12	15	2383	2383	2380				
5	QPSK	25	0	2378	2384	2370	24.7			
5	HQAM	1	0	2394	2398	2397				
5	HQAM	1	12	2397	2405	2405				
5	HQAM	1	24	2400	2411	2403	24.7			
5	HQAM	12	0	2288	2271	2271				
5	HQAM	12	12	2281	2286	2281				
5	HQAM	12	12	2289	2293	2284	23.7			
5	HQAM	25	0	2286	2277	2273				
5	HQAM	1	0	2278	2277	2283				
5	HQAM	1	12	2284	2289	2273	23.7			
5	HQAM	11	24	2297	2305	2278				
5	HQAM	12	0	2178	2182	2174				
5	HQAM	12	7	2187	2186	2171	22.7			
5	HQAM	12	12	2184	2188	2187				
5	HQAM	25	0	2192	2175	2176				
5	HQAM	1	0	2016	2002	1993	20.7			
5	HQAM	1	12	2025	2000	2005				
5	HQAM	1	24	2018	2011	2003				
5	HQAM	12	0	2003	1998	1991	20.7			
5	HQAM	12	12	2007	2007	1988				
5	HQAM	12	12	2009	1998	1999				
5	HQAM	25	0	2006	1992	1983	20.7			



Band 12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2464	2463	2469	25.7
10	QPSK	1	26	2459	2460	2462	
10	QPSK	1	49	2467	2463	2460	24.7
10	QPSK	25	0	2372	2374	2371	
10	QPSK	25	12	2378	2373	2372	24.7
10	QPSK	25	25	2377	2379	2380	
10	QPSK	50	0	2378	2371	2373	24.7
10	QPSK	1	0	2386	2385	2387	
10	HQAM	1	25	2397	2399	2401	23.7
10	HQAM	1	49	2408	2401	2404	
10	HQAM	25	0	2271	2273	2274	23.7
10	HQAM	25	12	2276	2273	2275	
10	HQAM	25	25	2272	2280	2277	23.7
10	HQAM	50	0	2275	2272	2274	
10	HQAM	1	0	2281	2280	2283	23.7
10	HQAM	1	26	2288	2282	2286	
10	HQAM	1	49	2298	2291	2294	22.7
10	HQAM	25	0	2178	2174	2176	
10	HQAM	25	12	2184	2177	2178	22.7
10	HQAM	25	25	2179	2181	2180	
10	HQAM	50	0	2182	2177	2177	20.7
10	HQAM	1	0	1942	1954	1955	
10	SSBQAM	1	25	1958	1957	1958	20.7
10	SSBQAM	1	49	1952	1958	1954	
10	SSBQAM	25	0	1952	1954	1955	20.7
10	SSBQAM	25	12	1956	1948	1945	
10	SSBQAM	25	25	1942	1947	1955	20.7
10	SSBQAM	50	0	1953	1951	1951	
Channel							
Frequency (MHz)							
5	QPSK	1	0	2465	2466	2480	25.7
5	QPSK	1	24	2465	2460	2480	
5	QPSK	1	24	2484	2465	2464	24.7
5	QPSK	12	0	2375	2373	2373	
5	QPSK	12	12	2378	2380	2370	24.7
5	QPSK	12	12	2370	2374	2372	
5	QPSK	25	0	2373	2371	2371	24.7
5	HQAM	1	0	2398	2399	2397	
5	HQAM	1	12	2401	2401	2399	23.7
5	HQAM	1	24	2402	2401	2397	
5	HQAM	12	0	2283	2278	2278	23.7
5	HQAM	12	7	2278	2280	2274	
5	HQAM	12	13	2275	2275	2275	23.7
5	HQAM	25	0	2278	2271	2270	
5	HQAM	1	0	2298	2295	2288	23.7
5	HQAM	1	24	2292	2293	2294	
5	HQAM	1	24	2296	2298	2292	22.7
5	HQAM	12	0	2188	2182	2182	
5	HQAM	12	7	2183	2183	2178	22.7
5	HQAM	12	13	2178	2180	2177	
5	HQAM	25	0	2178	2174	2174	20.7
5	SSBQAM	1	0	1938	1948	1948	
5	SSBQAM	1	12	1939	1949	1952	20.7
5	SSBQAM	1	24	1942	1948	1950	
5	SSBQAM	12	0	1945	1952	1950	20.7
5	SSBQAM	12	7	1951	1948	1942	
5	SSBQAM	12	13	1938	1937	1954	20.7
5	SSBQAM	25	0	1953	1949	1948	
Channel							
Frequency (MHz)							
3	QPSK	1	0	2392	2388	2386	25.7
3	QPSK	1	8	2392	2395	2393	
3	QPSK	8	0	2385	2390	2384	24.7
3	QPSK	8	4	2298	2297	2294	
3	QPSK	8	4	2298	2300	2297	24.7
3	QPSK	16	0	2298	2292	2292	
3	HQAM	1	0	2398	2399	2392	24.7
3	HQAM	1	8	2391	2391	2392	
3	HQAM	1	14	2393	2392	2393	23.7
3	HQAM	8	4	2298	2301	2300	
3	HQAM	8	4	2299	2298	2294	23.7
3	HQAM	8	7	2290	2298	2198	
3	HQAM	16	0	2291	2295	2194	23.7
3	HQAM	1	0	2221	2214	2214	
3	HQAM	1	8	2224	2223	2220	22.7
3	HQAM	8	0	2183	2183	2096	
3	HQAM	8	4	2198	2197	2194	22.7
3	HQAM	8	7	2099	2102	2099	
3	HQAM	16	0	2100	2095	2093	20.7
3	SSBQAM	1	0	1952	1948	1943	
3	SSBQAM	1	14	1958	1947	1948	20.7
3	SSBQAM	8	4	1948	1944	1945	
3	SSBQAM	8	4	1953	1948	1939	20.7
3	SSBQAM	8	7	1945	1937	1953	
3	SSBQAM	16	0	1951	1944	1942	20.7
3	SSBQAM	16	0	1947	1948	1950	
Channel							
Frequency (MHz)							
1.4	QPSK	1	0	2373	2374	2373	25.7
1.4	QPSK	1	3	2378	2380	2380	
1.4	QPSK	1	5	2372	2373	2371	24.7
1.4	QPSK	3	1	2384	2378	2379	
1.4	QPSK	3	3	2374	2378	2374	24.7
1.4	QPSK	6	0	2283	2284	2281	
1.4	HQAM	1	0	2398	2397	2399	24.7
1.4	HQAM	1	5	2398	2395	2393	
1.4	HQAM	3	0	2289	2284	2288	23.7
1.4	HQAM	3	1	2284	2286	2280	
1.4	HQAM	3	1	2284	2283	2282	23.7
1.4	HQAM	6	0	2188	2190	2186	
1.4	HQAM	3	0	2201	2198	2199	23.7
1.4	HQAM	1	3	2286	2289	2283	
1.4	HQAM	1	6	2283	2282	2197	23.7
1.4	HQAM	6	0	2198	2194	2198	
1.4	HQAM	3	1	2282	2197	2200	22.7
1.4	HQAM	6	0	2198	2195	2195	
1.4	SSBQAM	1	0	1938	1948	1942	20.7
1.4	SSBQAM	1	3	1957	1954	1956	
1.4	SSBQAM	1	5	1958	1947	1958	20.7
1.4	SSBQAM	3	0	1942	1945	1951	
1.4	SSBQAM	3	0	1958	1941	1938	20.7
1.4	SSBQAM	3	1	1939	1944	1952	
1.4	SSBQAM	6	0	1947	1948	1950	20.7



Band 13_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.98	782		
10	QPSK	1	25	24.02			25.2
10	QPSK	1	49	24.10			
10	QPSK	25	0	23.16			
10	QPSK	25	12	23.17			24.2
10	QPSK	25	25	23.19			
10	QPSK	50	0	23.18			
10	HQAM	1	0	23.38			
10	HQAM	1	25	23.37			24.2
10	HQAM	1	49	23.40			
10	HQAM	25	0	22.17			
10	HQAM	25	12	22.20			23.2
10	HQAM	25	25	22.22			
10	HQAM	50	0	22.19			
10	HQAM	1	0	22.21			
10	HQAM	1	25	22.32			23.2
10	HQAM	1	49	22.34			
10	HQAM	25	0	21.17			
10	HQAM	25	12	21.24			22.2
10	HQAM	25	25	21.23			
10	HQAM	50	0	21.23			
10	256QAM	1	0	18.81			
10	256QAM	1	25	18.97			20.2
10	256QAM	1	49	18.91			
10	256QAM	25	0	18.78			
10	256QAM	25	12	18.86			20.2
10	256QAM	25	25	18.89			
10	256QAM	50	0	18.84			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.93	2395	2395	
5	QPSK	1	0	23.98	782	784.5	
5	QPSK	1	24	24.04			25.2
5	QPSK	1	24	24.07	24.08	23.83	
5	QPSK	12	0	23.10	23.13	22.85	
5	QPSK	12	0	23.18	23.15	22.93	24.2
5	QPSK	12	13	23.19	23.21	22.89	
5	QPSK	25	0	23.18	23.14	22.90	
5	HQAM	1	0	23.31	23.29	23.01	
5	HQAM	1	12	23.29	23.33	23.04	24.2
5	HQAM	1	24	23.07	23.08	23.04	
5	HQAM	12	0	22.20	22.17	21.92	
5	HQAM	12	7	22.20	22.17	21.92	23.2
5	HQAM	12	13	22.21	22.22	21.94	
5	HQAM	25	0	22.23	22.16	21.92	
5	HQAM	1	0	22.19	22.28	21.94	
5	HQAM	1	24	22.25	22.20	22.01	23.2
5	HQAM	1	24	22.29	22.32	22.02	
5	HQAM	12	0	21.22	21.23	20.96	
5	HQAM	12	7	21.28	21.21	20.98	22.2
5	HQAM	12	13	21.25	21.26	20.95	
5	HQAM	25	0	21.06	21.17	20.96	
5	256QAM	1	0	18.55	18.57	18.59	
5	256QAM	1	12	18.93	18.96	18.94	20.2
5	256QAM	1	24	18.96	18.99	18.96	
5	256QAM	12	0	18.77	18.69	18.74	
5	256QAM	12	7	18.83	18.78	18.79	20.2
5	256QAM	12	13	18.82	18.84	18.79	
5	256QAM	25	0	18.77	18.77	18.74	



Band 14_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	2459	2459	
10	QPSK	1	25	2453	2453	
10	QPSK	1	49	2448	2448	25.7
10	QPSK	25	0	2355	2355	
10	QPSK	25	12	2357	2357	
10	QPSK	25	25	2353	2353	24.7
10	QPSK	50	0	2355	2355	
10	HQAM	1	0	2395	2395	
10	HQAM	1	25	2391	2391	
10	HQAM	1	49	2386	2386	24.7
10	HQAM	25	0	2254	2254	
10	HQAM	25	12	2257	2257	
10	HQAM	25	25	2254	2254	23.7
10	HQAM	50	0	2255	2255	
10	HQAM	1	0	2279	2279	
10	HQAM	1	25	2284	2284	
10	HQAM	1	49	2279	2279	23.7
10	HQAM	25	0	2158	2158	
10	HQAM	25	12	2161	2161	
10	HQAM	25	25	2158	2158	22.7
10	HQAM	50	0	2159	2159	
10	256QAM	1	0	1953	1953	
10	256QAM	1	25	1957	1957	
10	256QAM	1	49	1955	1955	20.7
10	256QAM	25	0	1929	1929	
10	256QAM	25	12	1934	1934	
10	256QAM	25	25	1933	1933	20.7
10	256QAM	50	0	1925	1925	
Channel						
Frequency (MHz)						
5	QPSK	1	0	2448	2448	24.45
5	QPSK	1	24	2456	2453	24.55
5	QPSK	1	24	2455	2455	24.48
5	QPSK	12	0	2362	2354	23.51
5	QPSK	12	12	2368	2368	23.60
5	QPSK	12	12	2361	2360	23.56
5	QPSK	25	0	2359	2354	23.52
5	HQAM	1	0	2382	2382	23.79
5	HQAM	1	12	2390	2392	23.86
5	HQAM	1	24	2388	2388	23.79
5	HQAM	12	0	2284	2281	22.83
5	HQAM	12	7	2288	2289	22.88
5	HQAM	12	13	2285	2283	22.84
5	HQAM	25	0	2262	2256	22.58
5	HQAM	1	0	2261	2277	22.77
5	HQAM	1	24	2263	2265	22.64
5	HQAM	1	24	2262	2262	22.60
5	HQAM	12	0	2171	2160	21.58
5	HQAM	12	7	2169	2170	21.68
5	HQAM	12	13	2163	2166	21.61
5	HQAM	25	0	2160	2161	21.64
5	256QAM	1	0	1947	1949	19.53
5	256QAM	1	12	1931	1933	19.28
5	256QAM	1	24	1946	1946	19.42
5	256QAM	12	0	1919	1927	19.27
5	256QAM	12	7	1928	1928	19.34
5	256QAM	12	13	1933	1935	19.33
5	256QAM	25	0	1921	1919	19.15



Band 17_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)
Channel				700	710	711	
Frequency (MHz)				2470	2490	2500	
10	QPSK	1	0	2458	2458	2453	
10	QPSK	1	25	2458	2464	2460	25.7
10	QPSK	1	49	2462	2466	2462	
10	QPSK	25	0	2384	2386	2385	
10	QPSK	25	12	2378	2373	2371	24.7
10	QPSK	25	25	2380	2379	2380	
10	QPSK	50	0	2389	2372	2389	
10	HQAM	1	0	2390	2392	2391	24.7
10	HQAM	1	25	2401	2401	2400	
10	HQAM	1	49	2401	2402	2402	
10	HQAM	25	0	2265	2264	2264	
10	HQAM	25	12	2278	2271	2271	23.7
10	HQAM	25	25	2277	2281	2276	
10	HQAM	50	0	2269	2270	2267	
10	HQAM	1	0	2286	2276	2274	23.7
10	HQAM	1	25	2252	2257	2250	
10	HQAM	1	49	2252	2258	2263	
10	HQAM	25	0	2167	2167	2167	
10	HQAM	25	12	2184	2178	2178	22.7
10	HQAM	25	25	2180	2182	2182	
10	HQAM	50	0	2170	2171	2171	
10	256QAM	1	0	1944	1937	1933	20.7
10	256QAM	1	25	1950	1948	1951	
10	256QAM	1	49	1958	1950	1958	
10	256QAM	25	0	1946	1944	1946	
10	256QAM	25	12	1956	1952	1943	20.7
10	256QAM	25	25	1958	1954	1952	
10	256QAM	50	0	1948	1948	1948	
Channel				2515	2520	2525	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	2457	2456	2455	
5	QPSK	1	12	2460	2461	2463	25.7
5	QPSK	1	24	2464	2461	2464	
5	QPSK	12	0	2387	2389	2386	
5	QPSK	12	12	2378	2374	2389	24.7
5	QPSK	12	13	2377	2376	2373	
5	QPSK	25	0	2376	2376	2365	
5	HQAM	1	0	2391	2393	2391	
5	HQAM	1	12	2397	2403	2398	24.7
5	HQAM	1	24	2408	2404	2401	
5	HQAM	12	0	2270	2272	2272	
5	HQAM	12	7	2278	2274	2273	23.7
5	HQAM	12	13	2278	2277	2274	
5	HQAM	25	0	2274	2275	2269	
5	HQAM	1	0	2289	2287	2288	
5	HQAM	1	12	2290	2296	2290	23.7
5	HQAM	1	24	2294	2300	2293	
5	HQAM	12	0	2173	2177	2178	
5	HQAM	12	7	2181	2179	2173	22.7
5	HQAM	12	13	2179	2185	2175	
5	HQAM	25	0	2179	2174	2170	
5	256QAM	1	0	1941	1929	1924	
5	256QAM	1	12	1949	1946	1944	20.7
5	256QAM	1	24	1944	1950	1950	
5	256QAM	12	0	1939	1934	1941	
5	256QAM	12	7	1938	1947	1940	20.7
5	256QAM	12	13	1933	1934	1932	
5	256QAM	25	0	1937	1941	1942	



Band 25_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power High	Power Max	Power Min	Power Max	Power Min	Turn-up (dBm)
Channel				Ch1 Freq	Ch2 Freq	Ch3 Freq	Ch4 Freq	Ch5 Freq	Ch6 Freq	
Frequency (MHz)				1860	1860	1860	1860	1860	1860	
20	QPSK	1	0	2411	2416	2416	2416	2416	2416	25.7
20	QPSK	1	49	2454	2416	2416	2416	2416	2416	25.7
20	QPSK	1	99	2499	2419	2419	2419	2419	2419	25.7
20	QPSK	60	0	2314	2322	2322	2322	2322	2322	24.7
20	QPSK	50	24	2321	2329	2329	2329	2329	2329	24.7
20	QPSK	50	50	2319	2327	2327	2327	2327	2327	24.7
20	QPSK	100	0	2324	2334	2334	2334	2334	2334	24.7
20	HQAM	1	0	2338	2334	2334	2334	2334	2334	24.7
20	HQAM	1	49	2339	2345	2345	2345	2345	2345	24.7
20	HQAM	1	99	2350	2354	2354	2354	2354	2354	24.7
20	HQAM	50	0	2211	2219	2219	2219	2219	2219	23.7
20	HQAM	50	24	2223	2231	2231	2231	2231	2231	23.7
20	HQAM	50	50	2225	2233	2233	2233	2233	2233	23.7
20	HQAM	100	0	2217	2229	2229	2229	2229	2229	23.7
20	HQAM	1	49	2221	2234	2234	2234	2234	2234	23.7
20	HQAM	1	99	2227	2243	2243	2243	2243	2243	23.7
20	HQAM	50	0	2114	2123	2123	2123	2123	2123	22.7
20	HQAM	50	24	2123	2135	2135	2135	2135	2135	22.7
20	HQAM	50	50	2123	2131	2131	2131	2131	2131	22.7
20	HQAM	100	0	2122	2130	2130	2130	2130	2130	22.7
20	SSBQAM	1	0	1965	1944	1944	1944	1944	1944	20.7
20	SSBQAM	1	49	1971	1975	1975	1975	1975	1975	20.7
20	SSBQAM	1	99	1955	1948	1948	1948	1948	1948	20.7
20	SSBQAM	50	0	1958	1982	1982	1982	1982	1982	20.7
20	SSBQAM	50	24	1971	1984	1984	1984	1984	1984	20.7
20	SSBQAM	50	50	1974	1973	1973	1973	1973	1973	20.7
20	SSBQAM	100	0	1964	1972	1972	1972	1972	1972	20.7
Channel				2015.5	2015.5	2015.5	2015.5	2015.5	2015.5	Turn-up (dBm)
Frequency (MHz)				1897.5	1890	1897.5	1897.5	1897.5	1897.5	
15	QPSK	1	0	2408	2399	2418	2418	2418	2418	25.7
15	QPSK	1	49	2405	2414	2414	2414	2414	2414	25.7
15	QPSK	1	74	2400	2411	2409	2409	2409	2409	25.7
15	QPSK	30	0	2310	2315	2317	2317	2317	2317	24.7
15	QPSK	30	20	2314	2319	2320	2320	2320	2320	24.7
15	QPSK	30	39	2318	2317	2322	2322	2322	2322	24.7
15	QPSK	75	0	2315	2319	2328	2328	2328	2328	24.7
15	HQAM	1	0	2331	2334	2343	2343	2343	2343	24.7
15	HQAM	1	39	2330	2340	2351	2351	2351	2351	24.7
15	HQAM	1	74	2341	2348	2340	2340	2340	2340	24.7
15	HQAM	30	0	2208	2217	2230	2230	2230	2230	23.7
15	HQAM	30	20	2223	2225	2232	2232	2232	2232	23.7
15	HQAM	30	39	2225	2226	2231	2231	2231	2231	23.7
15	HQAM	75	0	2214	2228	2225	2225	2225	2225	23.7
15	HQAM	1	0	2218	2221	2209	2209	2209	2209	23.7
15	HQAM	1	49	2218	2233	2198	2198	2198	2198	23.7
15	HQAM	1	74	2223	2238	2170	2170	2170	2170	23.7
15	HQAM	30	0	2107	2115	2093	2093	2093	2093	22.7
15	HQAM	30	20	2118	2132	2113	2113	2113	2113	22.7
15	HQAM	30	39	2122	2125	2088	2088	2088	2088	22.7
15	HQAM	75	0	2116	2125	2070	2070	2070	2070	22.7
15	SSBQAM	1	0	1955	1944	1978	1978	1978	1978	20.7
15	SSBQAM	1	39	1963	1973	1988	1988	1988	1988	20.7
15	SSBQAM	1	74	1965	1944	1950	1950	1950	1950	20.7
15	SSBQAM	30	0	1958	1985	1989	1989	1989	1989	20.7
15	SSBQAM	30	20	1978	1985	1989	1989	1989	1989	20.7
15	SSBQAM	30	39	1973	1970	1973	1973	1973	1973	20.7
15	SSBQAM	75	0	1962	1972	1972	1972	1972	1972	20.7
Channel				2060	2060	2060	2060	2060	2060	Turn-up (dBm)
Frequency (MHz)				1860	1860	1860	1860	1860	1860	
10	QPSK	1	0	2405	2396	2417	2417	2417	2417	25.7
10	QPSK	1	25	2397	2414	2413	2413	2413	2413	25.7
10	QPSK	1	49	2408	2412	2406	2406	2406	2406	25.7
10	QPSK	1	74	2400	2411	2409	2409	2409	2409	25.7
10	QPSK	25	0	2304	2322	2328	2328	2328	2328	24.7
10	QPSK	25	12	2320	2320	2328	2328	2328	2328	24.7
10	QPSK	25	26	2319	2319	2333	2333	2333	2333	24.7
10	QPSK	50	0	2318	2317	2330	2330	2330	2330	24.7
10	HQAM	1	0	2328	2328	2344	2344	2344	2344	24.7
10	HQAM	1	24	2331	2338	2351	2351	2351	2351	24.7
10	HQAM	1	49	2342	2351	2338	2338	2338	2338	24.7
10	HQAM	25	0	2202	2217	2231	2231	2231	2231	23.7
10	HQAM	25	12	2223	2228	2225	2225	2225	2225	23.7
10	HQAM	25	26	2217	2227	2232	2232	2232	2232	23.7
10	HQAM	50	0	2215	2220	2235	2235	2235	2235	23.7
10	HQAM	1	0	2217	2231	2214	2214	2214	2214	23.7
10	HQAM	1	25	2219	2225	2197	2197	2197	2197	23.7
10	HQAM	1	49	2225	2242	2170	2170	2170	2170	23.7
10	HQAM	25	0	2108	2115	2092	2092	2092	2092	22.7
10	HQAM	25	12	2121	2130	2118	2118	2118	2118	22.7
10	HQAM	25	26	2123	2128	2107	2107	2107	2107	22.7
10	HQAM	50	0	2117	2130	2047	2047	2047	2047	22.7
10	SSBQAM	1	0	1955	1944	1978	1978	1978	1978	20.7
10	SSBQAM	1	25	1954	1973	1970	1970	1970	1970	20.7
10	SSBQAM	1	49	1964	1984	1991	1991	1991	1991	20.7
10	SSBQAM	25	0	1967	1985	1980	1980	1980	1980	20.7
10	SSBQAM	25	12	1970	1951	1952	1952	1952	1952	20.7
10	SSBQAM	25	26	1970	1973	1971	1971	1971	1971	20.7
10	SSBQAM	50	0	1957	1955	1977	1977	1977	1977	20.7
Channel				2065	2060	2065	2065	2065	2065	Turn-up (dBm)
Frequency (MHz)				1867.5	1860	1867.5	1867.5	1867.5	1867.5	
5	QPSK	1	0	2409	2400	2415	2415	2415	2415	25.7
5	QPSK	1	12	2396	2411	2413	2413	2413	2413	25.7
5	QPSK	1	24	2405	2415	2411	2411	2411	2411	25.7
5	QPSK	1	49	2408	2419	2424	2424	2424	2424	25.7
5	QPSK	12	0	2321	2324	2328	2328	2328	2328	24.7
5	QPSK	12	13	2314	2323	2334	2334	2334	2334	24.7
5	QPSK	24	0	2314	2319	2328	2328	2328	2328	24.7
5	HQAM	1	0	2328	2332	2351	2351	2351	2351	24.7
5	HQAM	1	12	2333	2344	2358	2358	2358	2358	24.7
5	HQAM	1	24	2349	2348	2337	2337	2337	2337	24.7
5	HQAM	12	0	2202	2211	2224	2224	2224	2224	23.7
5	HQAM	12	13	2216	2233	2226	2226	2226	2226	23.7
5	HQAM	12	13	2224	2223	2230	2230	2230	2230	23.7
5	HQAM	25	0	2215	2220	2235	2235	2235	2235	23.7
5	HQAM	1	12	2213	2228	2187	2187	2187	2187	23.7
5	HQAM	1	24	2218	2236	2170	2170	2170	2170	23.7
5	HQAM	12	0	2109	2114	2095	2095	2095	2095	22.7
5	HQAM	12	7	2113	2128	2119	2119	2119	2119	22.7
5	HQAM	12	13	2114	2123	2105	2105	2105	2105	22.7
5	HQAM	25	0	2118	2125	2044	2044	2044	2044	22.7
5	SSBQAM	1	0	1958	1939	1978	1978	1978	1978	20.7
5	SSBQAM	1	12	1968	1972	1980	1980	1980	1980	20.7
5	SSBQAM	1	24	1930	1977	1939	1939	1939	1939	20.7
5	SSBQAM	12	0	1946	1954	1986	1986	1986	1986	20.7
5	SSBQAM	12	13	1967	1954	1970	1970	1970	1970	20.7
5	SSBQAM	12	13	1974	1969	1978	1978	1978	1978	20.7
5	SSBQAM	25	0	1955	1988	1970	1970	1970	1970	20.7
Channel				2067	2060	2067	2067	2067	2067	Turn-up (dBm)
Frequency (MHz)				1867.7	1860	1867.7	1867.7	1867.7	1867.7	
1.4	QPSK	1	0	2401	2397	2413	2413	2413	2413	25.7
1.4	QPSK	1	3	2393	2402	2410	2410	2410	2410	25.7
1.4	QPSK	1	6	2394	2412	2418	2418	2418	2418	25.7
1.4	QPSK	1	14	2402	2418	2405	2405	2405	2405	25.7
1.4	QPSK	8	0	2305	2317	2324	2324	2324	2324	24.7
1.4	QPSK	8	4	2317	2328	2324	2324	2324	2324	24.7
1.4	QPSK	8	7	2315	2322	2335	233			



Band 26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Time-up (ms)		
Channel									
Frequency (MHz)									
831.5 831.5 831.5									
15	QPSK	1	0	2458	2458	2458	25.7		
15	QPSK	39	0	2449	2448	2448			
15	QPSK	1	74	2449	2448	2438			
15	QPSK	39	0	2384	2382	2381			
15	QPSK	39	20	2389	2387	2357	24.7		
15	QPSK	39	39	2354	2353	2359			
15	QPSK	75	0	2327	2326	2328			
15	16QAM	1	0	2388	2377	2385	24.7		
15	16QAM	1	37	2379	2378	2378			
15	16QAM	74	0	2377	2371	2366			
15	16QAM	38	0	2263	2252	2259			
15	16QAM	39	20	2265	2265	2255	23.7		
15	16QAM	39	39	2265	2262	2266			
15	16QAM	75	0	2268	2265	2281			
15	16QAM	1	0	2275	2267	2283			
15	16QAM	1	37	2271	2274	2258	23.7		
15	16QAM	1	74	2272	2268	2293			
15	16QAM	38	0	2184	2184	2184			
15	16QAM	38	20	2188	2188	2181	22.7		
15	16QAM	39	39	2187	2184	2183			
15	16QAM	75	0	2170	2167	2159			
15	256QAM	1	0	1949	1943	1944	20.7		
15	256QAM	1	37	1845	1837	1846			
15	256QAM	74	0	1937	1936	1936			
15	256QAM	38	0	1939	1940	1938			
15	256QAM	39	20	1944	1944	1938	20.7		
15	256QAM	39	39	1931	1932	1931			
15	256QAM	75	0	1941	1943	1934			
Channel									
Frequency (MHz)									
831.5 831.5 831.5									
10	QPSK	1	0	2454	2452	2449	25.7		
10	QPSK	26	26	2453	2452	2449			
10	QPSK	1	49	2453	2454	2442			
10	QPSK	26	0	2368	2357	2357	24.7		
10	QPSK	26	26	2368	2356	2356			
10	QPSK	26	26	2383	2389	2387			
10	QPSK	50	0	2365	2365	2354			
10	16QAM	1	0	2399	2387	2388	24.7		
10	16QAM	1	26	2389	2390	2388			
10	16QAM	1	49	2385	2384	2375			
10	16QAM	25	0	2270	2259	2266	23.7		
10	16QAM	25	10	2269	2259	2254			
10	16QAM	26	26	2265	2265	2256			
10	16QAM	50	0	2265	2264	2258			
10	16QAM	1	0	2292	2278	2274	23.7		
10	16QAM	1	26	2288	2288	2278			
10	16QAM	1	49	2281	2280	2268			
10	16QAM	25	0	2151	2150	2162	22.7		
10	16QAM	25	10	2170	2163	2162			
10	16QAM	25	26	2181	2181	2134			
10	16QAM	50	0	2151	2150	2155			
10	256QAM	1	0	1942	1942	1941	20.7		
10	256QAM	1	26	1943	1928	1943			
10	256QAM	1	49	1944	1944	1938			
10	256QAM	25	0	1932	1934	1937	20.7		
10	256QAM	25	10	1938	1942	1938			
10	256QAM	26	26	1938	1935	1934			
10	256QAM	50	0	1933	1933	1930			
Channel									
Frequency (MHz)									
831.5 831.5 831.5									
5	QPSK	1	0	2450	2450	2455	25.7		
5	QPSK	1	10	2453	2455	2454			
5	QPSK	1	24	2455	2456	2442			
5	QPSK	12	0	2372	2381	2381	24.7		
5	QPSK	12	7	2369	2354	2358			
5	QPSK	12	14	2384	2380	2381			
5	QPSK	26	0	2368	2352	2357	24.7		
5	16QAM	1	0	2401	2391	2389			
5	16QAM	1	10	2398	2396	2378	24.7		
5	16QAM	1	24	2396	2393	2374			
5	16QAM	12	1	2378	2363	2364	23.7		
5	16QAM	12	7	2273	2268	2259			
5	16QAM	12	14	2265	2261	2252			
5	16QAM	26	0	2265	2262	2254	23.7		
5	16QAM	1	0	2258	2284	2281			
5	16QAM	1	10	2272	2284	2284			
5	16QAM	1	24	2280	2286	2211	22.7		
5	16QAM	12	0	2155	2187	2158			
5	16QAM	12	7	2182	2171	2121			
5	16QAM	12	14	2168	2164	2034	22.7		
5	16QAM	26	0	2152	2188	2122			
5	256QAM	1	0	1944	1944	1938	20.7		
5	256QAM	1	10	1942	1938	1944			
5	256QAM	1	24	1948	1948	1927			
5	256QAM	12	0	1935	1935	1932	20.7		
5	256QAM	12	7	1940	1940	1931			
5	256QAM	12	14	1928	1928	1930			
5	256QAM	26	0	1941	1933	1928			
Channel									
Frequency (MHz)									
831.5 831.5 831.5									
3	QPSK	1	0	2443	2441	2453	25.7		
3	QPSK	1	8	2452	2450	2454			
3	QPSK	1	14	2450	2448	2441			
3	QPSK	8	0	2372	2359	2358	24.7		
3	QPSK	8	4	2361	2350	2353			
3	QPSK	8	7	2362	2359	2348			
3	QPSK	16	0	2361	2358	2348	24.7		
3	16QAM	1	0	2393	2387	2387			
3	16QAM	1	8	2386	2386	2374	23.7		
3	16QAM	1	14	2380	2384	2373			
3	16QAM	8	0	2274	2257	2254	23.7		
3	16QAM	8	4	2265	2262	2254			
3	16QAM	8	7	2261	2252	2244			
3	16QAM	16	0	2268	2261	2257	23.7		
3	16QAM	1	0	2268	2278	2271			
3	16QAM	1	8	2287	2284	2224	22.7		
3	16QAM	1	14	2259	2286	2211			
3	16QAM	8	0	2149	2162	2153	22.7		
3	16QAM	8	4	2163	2167	2132			
3	16QAM	8	7	2154	2144	2030	20.7		
3	16QAM	16	0	2145	2168	2130			
3	256QAM	1	0	1947	1943	1939	20.7		
3	256QAM	1	8	1940	1929	1946			
3	256QAM	1	14	1954	1946	1932			
3	256QAM	8	0	1930	1935	1933	20.7		
3	256QAM	8	4	1941	1937	1929			
3	256QAM	8	7	1924	1924	1925			
3	256QAM	16	0	1934	1942	1926			
Channel									
Frequency (MHz)									
814.7 831.5 846.3									
1.4	QPSK	1	0	2447	2443	2446	25.7		
1.4	QPSK	1	0	2451	2446	2445			
1.4	QPSK	1	0	2449	2450	2432			
1.4	QPSK	3	0	2446	2448	2447	24.7		
1.4	QPSK	3	0	2448	2450	2453			
1.4	QPSK	3	3	2446	2448	2432			
1.4	QPSK	6	0	2372	2358	2356	24.7		
1.4	16QAM	1	0	2365	2364	2348			
1.4	16QAM	1	3	2360	2359	2341	24.7		
1.4	16QAM	1	6	2358	2360	2354			
1.4	16QAM	3	0	2334	2335	2330			
1.4	16QAM	3	1	2387	2388	2377	23.7		
1.4	16QAM	3	2	2377	2350	2360			
1.4	16QAM	6	0	2277	2281	2280	23.7		
1.4	16QAM	1	0	2286	2284	2259			
1.4	16QAM	3	0	2255	2261	2243	23.7		
1.4	16QAM	1	6	2269	2259	2254			
1.4	16QAM	3	0	2251	2275	2279	23.7		
1.4	16QAM	6	0	2252	2260	2224			
1.4	16QAM	3	3	2260	2286	2209	20.7		
1.4	16QAM	6	0	2147	2167	2156			
1.4	256QAM	1	0	1944	1937	1936	20.7		
1.4	256QAM	1	3	1938	1934	1942			
1.4	256QAM	3	0	1935	1940	1938	20.7		
1.4	256QAM	3	1	1939	1938	1934			
1.4	256QAM	3	0	1931	1927	1928			
1.4	256QAM	6	0	1933	1933	1936	20.7		





Band 30_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2315			24.2
10	QPSK	1	25	2309			
10	QPSK	1	49	2302			
10	QPSK	25	0	2208			23.2
10	QPSK	25	12	2216			
10	QPSK	25	25	2218			
10	QPSK	50	0	2214			23.2
10	HQAM	1	0	2244			
10	HQAM	1	25	2248			
10	HQAM	1	49	2241			22.2
10	HQAM	25	0	2108			
10	HQAM	25	12	2114			
10	HQAM	25	25	2117			22.2
10	HQAM	50	0	2114			
10	HQAM	1	0	2120			
10	HQAM	1	25	2139			21.2
10	HQAM	1	49	2127			
10	HQAM	25	0	2012			
10	HQAM	25	12	2020			19.2
10	HQAM	25	25	2020			
10	HQAM	50	0	2018			
10	256QAM	1	0	1830			19.2
10	256QAM	1	25	1834			
10	256QAM	1	49	1831			
10	256QAM	25	0	1878			19.2
10	256QAM	25	12	1873			
10	256QAM	25	25	1875			
10	256QAM	50	0	1877			
Channel							
Frequency (MHz)							
5	QPSK	1	0	2307.5	2310	2312.5	24.2
5	QPSK	1	0	2297	2301	2305	
5	QPSK	1	25	2314	2314	2312	
5	QPSK	1	24	2313	2313	2306	23.2
5	QPSK	12	0	2210	2212	2216	
5	QPSK	12	13	2222	2217	2219	
5	QPSK	25	0	2218	2214	2219	23.2
5	HQAM	1	0	2232	2234	2239	
5	HQAM	1	12	2242	2240	2238	
5	HQAM	1	24	2244	2240	2236	22.2
5	HQAM	12	0	2124	2120	2122	
5	HQAM	12	13	2125	2116	2122	
5	HQAM	25	0	2121	2116	2120	22.2
5	HQAM	1	0	2128	2132	2134	
5	HQAM	1	25	2132	2136	2133	
5	HQAM	1	24	2138	2138	2131	21.2
5	HQAM	12	0	2017	2021	2020	
5	HQAM	12	13	2020	2023	2026	
5	HQAM	12	13	2030	2025	2024	19.2
5	HQAM	25	0	2025	2017	2020	
5	256QAM	1	0	1875	1879	1877	
5	256QAM	1	12	1887	1890	1885	19.2
5	256QAM	1	24	1896	1890	1887	
5	256QAM	12	0	1870	1869	1869	
5	256QAM	12	7	1883	1872	1884	19.2
5	256QAM	12	13	1885	1875	1871	
5	256QAM	25	0	1875	1872	1870	



Band 66_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Time-up (ms)	
Channel								
Frequency (MHz)								
20	QPSK	1	0	2428	2428	2428	25.7	
20	QPSK	1	49	2422	2427	2420		
20	QPSK	1	99	2423	2429	2424		
20	QPSK	64	0	2328	2328	2322	24.7	
20	QPSK	50	24	2338	2330	2330		
20	QPSK	50	50	2337	2333	2326		
20	HQAM	1	0	2359	2358	2351	24.7	
20	HQAM	1	49	2360	2361	2352		
20	HQAM	1	99	2361	2358	2347		
20	HQAM	50	0	2222	2229	2224	23.7	
20	HQAM	50	24	2227	2225	2232		
20	HQAM	50	50	2240	2238	2231		
20	HQAM	100	0	2241	2231	2232	23.7	
20	HQAM	1	0	2211	2252	2252		
20	HQAM	1	49	2246	2251	2175		
20	HQAM	1	99	2258	2249	2222	22.7	
20	HQAM	50	0	2128	2134	2038		
20	HQAM	50	24	2143	2137	2065		
20	HQAM	50	50	2141	2145	2131	20.7	
20	HQAM	100	0	2140	2131	2115		
20	HQAM	1	0	1979	1973	1971		
20	HQAM	1	49	1959	1952	1958	20.7	
20	HQAM	1	99	2051	1955	1979		
20	HQAM	50	0	1952	1949	1949		
20	HQAM	50	24	1946	1974	1975	20.7	
20	HQAM	50	50	1973	1971	1958		
20	HQAM	100	0	1972	1979	1945		
Channel								
Frequency (MHz)								
15	QPSK	1	0	2420	2428	2418	25.7	
15	QPSK	1	49	2413	2418	2420		
15	QPSK	1	74	2416	2425	2414		
15	QPSK	30	0	2322	2334	2318	24.7	
15	QPSK	30	20	2322	2328	2324		
15	QPSK	30	39	2330	2322	2325		
15	QPSK	75	0	2331	2324	2324	24.7	
15	HQAM	1	0	2355	2351	2343		
15	HQAM	1	37	2359	2359	2346		
15	HQAM	1	74	2361	2352	2341	23.7	
15	HQAM	30	0	2218	2221	2220		
15	HQAM	30	20	2234	2231	2232		
15	HQAM	30	39	2235	2232	2237	23.7	
15	HQAM	75	0	2231	2221	2228		
15	HQAM	1	0	2207	2205	2235		
15	HQAM	1	49	2244	2244	2170	22.7	
15	HQAM	1	74	2249	2241	2222		
15	HQAM	30	0	2123	2128	2038		
15	HQAM	30	20	2125	2132	2035	22.7	
15	HQAM	30	39	2132	2135	2125		
15	HQAM	75	0	2158	2127	2107		
15	HQAM	1	0	1972	1948	1945	20.7	
15	HQAM	1	37	1955	1988	1982		
15	HQAM	30	0	1972	1948	1945		
15	HQAM	30	20	1975	1949	1975	20.7	
15	HQAM	30	39	1945	1950	1958		
15	HQAM	75	0	1972	1979	1958		
Channel								
Frequency (MHz)								
10	QPSK	1	0	2417	2422	2415	25.7	
10	QPSK	1	25	2414	2421	2420		
10	QPSK	1	49	2418	2415	2424		
10	QPSK	25	0	2323	2325	2318	24.7	
10	QPSK	25	12	2333	2328	2325		
10	QPSK	25	25	2329	2331	2318		
10	QPSK	50	0	2336	2321	2323	24.7	
10	HQAM	1	0	2352	2348	2346		
10	HQAM	1	25	2354	2340	2352		
10	HQAM	1	49	2360	2349	2337	23.7	
10	HQAM	25	0	2219	2219	2221		
10	HQAM	25	12	2229	2228	2231		
10	HQAM	25	25	2233	2228	2227	23.7	
10	HQAM	50	0	2228	2228	2221		
10	HQAM	1	0	2202	2255	2234		
10	HQAM	1	25	2237	2250	2170	22.7	
10	HQAM	25	0	2205	2203	2217		
10	HQAM	25	12	2120	2134	2038		
10	HQAM	25	12	2138	2130	2031	22.7	
10	HQAM	25	25	2139	2137	2127		
10	HQAM	50	0	2132	2128	2105		
10	HQAM	1	0	1953	1951	1958	20.7	
10	HQAM	1	25	1953	1951	1958		
10	HQAM	1	49	1944	1941	1970		
10	HQAM	25	0	1948	1949	1945	20.7	
10	HQAM	25	12	1970	1958	1975		
10	HQAM	25	25	1973	1952	1948		
10	HQAM	50	0	1948	1978	1958	20.7	
Channel								
Frequency (MHz)								
5	QPSK	1	0	2418	2423	2415	25.7	
5	QPSK	1	12	2412	2418	2419		
5	QPSK	1	24	2422	2427	2419		
5	QPSK	15	0	2322	2331	2317	24.7	
5	QPSK	12	7	2338	2321	2324		
5	QPSK	12	15	2329	2326	2320		
5	QPSK	25	0	2328	2325	2324	24.7	
5	HQAM	1	0	2358	2351	2343		
5	HQAM	1	12	2355	2354	2343		
5	HQAM	1	24	2358	2348	2340	23.7	
5	HQAM	15	0	2220	2225	2222		
5	HQAM	15	7	2228	2226	2226		
5	HQAM	15	15	2230	2229	2229	23.7	
5	HQAM	25	0	2234	2222	2225		
5	HQAM	1	0	2201	2253	2230		
5	HQAM	1	12	2243	2245	2170	22.7	
5	HQAM	11	24	2248	2252	2221		
5	HQAM	15	0	2121	2130	2038		
5	HQAM	12	7	2136	2134	2037	22.7	
5	HQAM	15	15	2137	2148	2106		
5	HQAM	25	0	2132	2121	2109		
5	HQAM	1	0	1969	1966	1971	20.7	
5	HQAM	1	12	1957	1950	1958		
5	HQAM	1	24	1958	1951	1972		
5	HQAM	12	0	1948	1945	1945	20.7	
5	HQAM	15	0	1979	1973	1973		
5	HQAM	12	15	1971	1947	1951		
5	HQAM	25	0	1968	1974	1941	20.7	
Channel								
Frequency (MHz)								
3	QPSK	1	0	2423	2428	2417	25.7	
3	QPSK	1	6	2421	2423	2415		
3	QPSK	1	14	2416	2424	2421		
3	QPSK	8	0	2326	2334	2319	24.7	
3	QPSK	8	4	2337	2323	2330		
3	QPSK	8	7	2352	2322	2320		
3	QPSK	15	0	2335	2326	2329	24.7	
3	HQAM	1	0	2359	2351	2349		
3	HQAM	1	8	2358	2358	2348		
3	HQAM	1	14	2356	2349	2340	23.7	
3	HQAM	8	0	2216	2228	2219		
3	HQAM	8	4	2231	2228	2230		
3	HQAM	8	7	2238	2238	2228	23.7	
3	HQAM	15	0	2239	2230	2228		
3	HQAM	1	0	2204	2254	2235		
3	HQAM	1	6	2246	2248	2173	22.7	
3	HQAM	1	14	2243	2241	2222		
3	HQAM	8	1	2119	2134	2030		
3	HQAM	13	4	2141	2133	2039	22.7	
3	HQAM	8	7	2132	2137	2121		
3	HQAM	15	0	2133	2131	2105		
3	HQAM	1	0	1989	1972	1970	20.7	
3	HQAM	1	8	1954	1988	1944		
3	HQAM	8	0	1942	1945	1940		
3	HQAM	8	4	1975	1972	1945	20.7	
3	HQAM	8	7	1971	1946	1937		
3	HQAM	15	0	1963	1971	1943		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	2402	2409	2401	25.7	
1.4	QPSK	1	3	2408	2413	2400		
1.4	QPSK	1	6	2403	2408	2398		
1.4	QPSK	3	0	2413	2413	2405	24.7	
1.4	QPSK	3	1	2416	2418	2408		
1.4	QPSK	1	24	2406	2416	2402		
1.4	HQAM	1	0	2311	2317	2305	24.7	
1.4	HQAM	1	3	2308	2307	2306		
1.4	HQAM	1	3	2345	2346	2338		
1.4	HQAM	1	5	2333	2345	2338	24.7	
1.4	HQAM	3	0	2317	2322	2311		
1.4	HQAM	3	1	2327	2333	2318		
1.4	HQAM	3	3	2314	2320	2310	23.7	
1.4	HQAM	6	0	2220	2228	2217		
1.4	HQAM	1	0	2207	2239	2225		
1.4	HQAM	1	3	2217	2250	2231	23.7	
1.4	HQAM	3	0	2208	2238	2224		
1.4	HQAM	3	0	2204	2228	2218		
1.4	HQAM	3	1	2216	2239	2225	22.7	
1.4	HQAM	3	3	2218	2233	2215		
1.4	HQAM	6	0	2103	2123	2109		
1.4	HQAM	1	0	1963	1940	1935	20.7	
1.4	HQAM	1	0	1984	1941	1975		
1.4	HQAM	1	5	1931	1940	1944		
1.4	HQAM	1	6	1952	1951	1937	20.7	
1.4	HQAM	3	1	1984	1940	1947		
1.4	HQAM	3	3	1984	1947	1979		
1.4	HQAM							



Band 71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dB)		
Channel				693	693	693			
Frequency (MHz)				19329	19329	19329			
20	QPSK	1	0	2466	2467	2468	25.7		
20	QPSK	1	49	2458	2453	2451			
20	QPSK	1	99	2451	2453	2450			
20	QPSK	60	0	2366	2366	2368	24.7		
20	QPSK	50	24	2371	2361	2361			
20	QPSK	50	50	2370	2364	2363			
20	HQAM	1	0	2392	2392	2392	24.7		
20	HQAM	1	49	2392	2389	2385			
20	HQAM	1	99	2389	2386	2385			
20	HQAM	50	0	2270	2268	2267	23.7		
20	HQAM	50	24	2273	2265	2261			
20	HQAM	50	50	2270	2268	2264			
20	HQAM	100	0	2270	2262	2259	23.7		
20	HQAM	1	49	2261	2259	2271			
20	HQAM	1	99	2278	2277	2276			
20	HQAM	50	0	2124	2121	2121	22.7		
20	HQAM	50	24	2123	2125	2125			
20	HQAM	50	50	2121	2126	2125			
20	HQAM	100	0	2124	2122	2122	20.7		
20	HQAM	1	0	1958	1950	1937			
20	HQAM	1	49	1941	1936	1939			
20	HQAM	1	99	1945	1935	1935	20.7		
20	HQAM	50	0	1941	1947	1944			
20	HQAM	50	24	1945	1944	1938			
20	HQAM	50	50	1940	1938	1939	20.7		
20	HQAM	100	0	1943	1943	1932			
20	HQAM	100	0	1937	1937	1937			
Channel				670.5	680.5	690.5			
Frequency (MHz)				2464	2457	2453			
15	QPSK	1	0	2466	2453	2452	25.7		
15	QPSK	1	74	2453	2458	2453			
15	QPSK	30	0	2388	2364	2360		24.7	
15	QPSK	30	20	2371	2368	2369			
15	QPSK	30	39	2384	2383	2381			
15	HQAM	1	0	2372	2369	2366	24.7		
15	HQAM	1	74	2362	2362	2364			
15	HQAM	30	0	2288	2284	2282		23.7	
15	HQAM	30	20	2271	2269	2268			
15	HQAM	30	39	2284	2282	2281			
15	HQAM	75	0	2273	2269	2267	23.7		
15	HQAM	1	0	2247	2279	2275			
15	HQAM	1	74	2275	2283	2277		22.7	
15	HQAM	30	0	2148	2160	2163			
15	HQAM	30	20	2152	2171	2171	20.7		
15	HQAM	30	39	2168	2185	2185			
15	HQAM	75	0	2170	2170	2188			
15	HQAM	1	0	1949	1952	1937	20.7		
15	HQAM	1	37	1933	1928	1932			
15	HQAM	30	0	1935	1941	1937			
15	HQAM	30	20	1932	1943	1930	20.7		
15	HQAM	30	39	1938	1936	1935			
15	HQAM	75	0	1938	1938	1931			
Channel				19312	19322	19342			
Frequency (MHz)				692.5	692.5	692.5			
10	QPSK	1	0	2452	2457	2449	25.7		
10	QPSK	1	25	2455	2445	2450			
10	QPSK	1	49	2452	2451	2445		24.7	
10	QPSK	25	0	2372	2358	2353			
10	QPSK	25	12	2371	2358	2359			
10	QPSK	25	25	2366	2352	2341	24.7		
10	QPSK	50	0	2371	2365	2356			
10	HQAM	1	0	2455	2451	2454		24.7	
10	HQAM	1	25	2452	2456	2459			
10	HQAM	1	49	2458	2450	2453	23.7		
10	HQAM	25	0	2272	2265	2264			
10	HQAM	25	12	2271	2257	2254			
10	HQAM	25	25	2264	2260	2261	23.7		
10	HQAM	50	0	2271	2263	2254			
10	HQAM	1	0	2254	2278	2273		23.7	
10	HQAM	1	25	2258	2270	2260			
10	HQAM	1	49	2266	2281	2271	22.7		
10	HQAM	25	0	2132	2159	2165			
10	HQAM	25	12	2133	2160	2162		22.7	
10	HQAM	25	25	2128	2165	2164			
10	HQAM	50	0	2141	2168	2157	20.7		
10	HQAM	1	0	1955	1957	1936			
10	HQAM	1	25	1938	1928	1934		20.7	
10	HQAM	1	49	1937	1945	1935			
10	HQAM	25	0	1934	1942	1937	20.7		
10	HQAM	25	12	1932	1935	1932			
10	HQAM	25	25	1940	1928	1928			
10	HQAM	50	0	1938	1933	1922	20.7		
10	HQAM	50	0	1937	1937	1941			
Channel				19347	19347	19347			
Frequency (MHz)				692.5	692.5	692.5			
5	QPSK	1	0	2463	2457	2455	25.7		
5	QPSK	1	12	2461	2454	2456			
5	QPSK	1	24	2458	2454	2447		24.7	
5	QPSK	10	0	2379	2353	2344			
5	QPSK	12	7	2373	2354	2370	24.7		
5	QPSK	12	13	2368	2360	2361			
5	QPSK	24	0	2370	2364	2359		24.7	
5	HQAM	1	0	2402	2392	2389			
5	HQAM	1	12	2395	2390	2386	23.7		
5	HQAM	1	24	2389	2388	2383			
5	HQAM	12	0	2282	2268	2268		23.7	
5	HQAM	12	13	2276	2268	2270			
5	HQAM	12	13	2289	2261	2261	23.7		
5	HQAM	25	0	2273	2265	2262			
5	HQAM	1	0	2223	2260	2279		23.7	
5	HQAM	1	12	2248	2285	2281			
5	HQAM	11	24	2247	2283	2278	22.7		
5	HQAM	10	0	2134	2170	2171			
5	HQAM	12	7	2149	2170	2173		22.7	
5	HQAM	15	13	2168	2164	2163			
5	HQAM	25	0	2131	2167	2162	20.7		
5	HQAM	1	0	1955	1952	1931			
5	HQAM	1	12	1937	1928	1936		20.7	
5	HQAM	1	24	1938	1947	1935			
5	HQAM	12	0	1935	1945	1934	20.7		
5	HQAM	12	13	1937	1938	1932			
5	HQAM	12	13	1936	1936	1920			
5	HQAM	22	0	1937	1935	1931	20.7		



Band 2_Ant 0									
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch/Freq	Power Middle Ch/Freq	Power High Ch/Freq	Time-up limit (ms)		
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.55	23.55	23.54	25.5		
20	QPSK	1	49	23.51	23.55	23.54			
20	QPSK	1	99	23.55	23.61	23.62			
20	QPSK	66	0	22.87	22.71	22.71	24.5		
20	QPSK	50	24	22.87	22.73	22.73			
20	QPSK	50	50	22.85	22.77	22.84			
20	QPSK	100	0	22.88	22.69	22.74	24.5		
20	HQAM	1	0	22.96	22.95	22.98			
20	HQAM	1	49	22.84	22.98	22.94			
20	HQAM	1	99	22.84	22.90	22.91	23.5		
20	HQAM	50	0	21.60	21.72	21.72			
20	HQAM	50	24	21.65	21.75	21.77			
20	HQAM	50	50	21.68	21.78	21.83	23.5		
20	HQAM	100	0	21.85	21.88	21.75			
20	HQAM	1	49	22.72	21.87	21.33			
20	HQAM	1	99	22.82	21.79	21.82	22.5		
20	HQAM	50	0	21.58	20.73	20.74			
20	HQAM	50	24	21.86	20.77	20.50			
20	HQAM	50	50	21.84	20.80	20.76	20.5		
20	HQAM	100	0	21.85	20.74	20.80			
20	SSBQAM	1	0	18.70	18.84	18.90			
20	SSBQAM	1	49	18.81	18.90	18.85	20.5		
20	SSBQAM	1	99	18.80	18.97	18.93			
20	SSBQAM	50	0	18.84	18.75	18.80			
20	SSBQAM	50	24	18.75	18.85	18.85	20.5		
20	SSBQAM	50	50	18.83	18.88	18.98			
20	SSBQAM	100	0	18.78	18.81	18.89			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.54	23.59	23.68	25.5		
15	QPSK	1	49	23.51	23.65	23.58			
15	QPSK	1	74	23.52	23.59	23.54			
15	QPSK	30	0	22.59	22.69	22.64	24.5		
15	QPSK	30	20	22.67	22.63	22.65			
15	QPSK	30	39	22.69	22.69	22.78			
15	QPSK	75	0	22.62	22.65	22.69	24.5		
15	HQAM	1	0	22.90	22.88	22.88			
15	HQAM	1	37	22.83	22.96	22.91			
15	HQAM	1	74	22.81	22.88	22.82	23.5		
15	HQAM	30	0	21.53	21.64	21.64			
15	HQAM	30	20	21.60	21.73	21.76			
15	HQAM	30	39	21.60	21.76	21.76	23.5		
15	HQAM	75	0	21.60	21.58	21.71			
15	HQAM	1	0	22.88	21.72	21.83			
15	HQAM	1	49	22.72	21.82	21.55	22.5		
15	HQAM	1	74	22.81	21.79	21.80			
15	HQAM	30	0	21.51	20.83	20.71			
15	HQAM	30	20	21.65	20.74	20.58	22.5		
15	HQAM	30	39	21.58	20.70	20.74			
15	HQAM	75	0	21.55	20.98	20.59			
15	SSBQAM	1	0	18.60	18.75	18.85	20.5		
15	SSBQAM	1	37	18.71	18.90	18.95			
15	SSBQAM	1	74	18.71	18.90	18.95			
15	SSBQAM	30	0	18.57	18.70	18.76	20.5		
15	SSBQAM	30	20	18.74	18.79	18.85			
15	SSBQAM	30	39	18.75	18.78	18.86			
15	SSBQAM	75	0	18.72	18.80	18.85			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.53	23.51	23.69	25.5		
10	QPSK	1	25	23.51	23.58	23.55			
10	QPSK	1	49	23.52	23.57	23.62			
10	QPSK	25	0	22.83	22.83	22.82	24.5		
10	QPSK	25	12	22.84	22.84	22.86			
10	QPSK	25	25	22.83	22.71	22.84			
10	QPSK	60	0	22.59	22.67	22.84	24.5		
10	HQAM	1	0	22.98	22.90	22.96			
10	HQAM	1	25	22.78	22.68	22.90			
10	HQAM	1	49	22.75	22.85	22.89	23.5		
10	HQAM	25	0	21.59	21.62	21.87			
10	HQAM	25	12	21.63	21.70	21.70			
10	HQAM	25	25	21.64	21.74	21.74	23.5		
10	HQAM	50	0	21.82	21.81	21.74			
10	HQAM	1	0	22.87	21.72	21.84			
10	HQAM	1	25	22.70	21.84	21.52	22.5		
10	HQAM	1	49	22.73	21.72	21.74			
10	HQAM	25	0	21.52	20.86	20.71			
10	HQAM	25	12	21.59	20.89	20.52	22.5		
10	HQAM	25	25	21.60	20.73	20.76			
10	HQAM	50	0	21.59	20.85	20.58			
10	SSBQAM	1	0	18.57	18.58	18.95	20.5		
10	SSBQAM	1	25	18.73	18.98	18.95			
10	SSBQAM	1	49	18.78	18.97	18.94			
10	SSBQAM	25	0	18.54	18.75	18.80	20.5		
10	SSBQAM	25	12	18.73	18.77	18.83			
10	SSBQAM	25	25	18.78	18.81	18.95			
10	SSBQAM	50	0	18.67	18.79	18.83			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.53	23.54	23.66	25.5		
5	QPSK	1	12	23.50	23.57	23.62			
5	QPSK	1	24	23.54	23.54	23.61			
5	QPSK	15	0	22.83	22.83	22.81	24.5		
5	QPSK	12	7	22.87	22.83	22.87			
5	QPSK	12	15	22.85	22.76	22.83			
5	QPSK	24	0	22.83	22.68	22.74	24.5		
5	HQAM	1	0	22.93	22.89	22.98			
5	HQAM	1	12	22.81	22.68	22.81			
5	HQAM	1	24	22.81	22.82	22.88	23.5		
5	HQAM	12	0	21.59	21.71	21.87			
5	HQAM	12	12	21.64	21.73	21.76			
5	HQAM	12	15	21.63	21.68	21.77	23.5		
5	HQAM	25	0	21.58	21.60	21.69			
5	HQAM	1	0	22.71	21.79	21.88			
5	HQAM	1	12	22.89	21.82	21.83	22.5		
5	HQAM	1	24	22.75	21.71	21.81			
5	HQAM	12	0	21.59	20.68	20.65			
5	HQAM	12	7	21.60	20.69	20.50	22.5		
5	HQAM	12	15	21.61	20.70	20.67			
5	HQAM	25	0	21.52	20.72	20.57			
5	SSBQAM	1	0	18.70	18.80	18.88	20.5		
5	SSBQAM	1	12	18.77	18.94	18.98			
5	SSBQAM	1	24	18.80	18.87	18.93			
5	SSBQAM	12	0	18.62	18.74	18.78	20.5		
5	SSBQAM	12	12	18.80	18.79	18.77			
5	SSBQAM	12	15	18.80	18.83	18.88			
5	SSBQAM	25	0	18.76	18.77	18.83			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.59	23.59	23.68	25.5		
3	QPSK	1	8	23.51	23.65	23.57			
3	QPSK	1	14	23.51	23.52	23.54			
3	QPSK	8	0	22.82	22.70	22.69	24.5		
3	QPSK	8	4	22.87	22.73	22.69			
3	QPSK	8	7	22.84	22.76	22.78			
3	QPSK	16	0	22.81	22.67	22.81	24.5		
3	HQAM	1	0	22.91	22.91	22.96			
3	HQAM	1	8	22.81	22.89	22.88			
3	HQAM	1	14	22.85	22.87	22.85	23.5		
3	HQAM	8	0	21.55	21.66	21.72			
3	HQAM	8	4	21.62	21.68	21.76			
3	HQAM	8	7	21.68	21.71	21.76	23.5		
3	HQAM	16	0	21.85	21.82	21.72			
3	HQAM	1	0	22.70	21.80	21.80			
3	HQAM	1	8	22.66	21.79	21.83	22.5		
3	HQAM	1	14	22.82	21.79	21.73			
3	HQAM	8	0	21.56	20.73	20.67			
3	HQAM	12	4	21.56	20.73	21.58	22.5		
3	HQAM	8	7	21.57	20.78	20.69			
3	HQAM	16	0	21.68	20.74	20.54			
3	SSBQAM	1	0	18.70	18.81	18.88	20.5		
3	SSBQAM	1	8	18.81	18.95	18.95			
3	SSBQAM	8	0	18.59	18.68	18.70			
3	SSBQAM	8	4	18.74	18.72	18.75	20.5		
3	SSBQAM	8	7	18.74	18.84	18.91			
3	SSBQAM	16	0	18.71	18.80	18.84			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.51	23.52	23.57	25.5		
1.4	QPSK	1	3	23.58	23.61	23.63			
1.4	QPSK	1	6	23.59	23.57	23.58			
1.4	QPSK	3	0	23.55	23.54	23.61			



Band 4_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power High Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Power High Ch. Freq	Time-up (sec)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.99	24.00	23.98			20.5	
20	QPSK	1	49	23.92	23.91	23.78				
20	QPSK	1	99	23.78	23.79	23.72				
20	QPSK	64	0	23.03	23.03	22.98			24.5	
20	QPSK	50	24	23.03	22.94	22.91				
20	QPSK	50	50	22.95	22.90	22.89				
20	QPSK	100	0	23.00	22.97	22.87			24.5	
20	HQAM	1	0	23.34	23.29	23.33				
20	HQAM	1	49	23.17	23.10	23.11				
20	HQAM	50	99	23.15	23.09	23.04			23.5	
20	HQAM	50	0	22.02	22.03	21.98				
20	HQAM	50	50	22.05	21.96	21.90				
20	HQAM	100	0	22.01	21.96	21.90			23.5	
20	HQAM	1	0	21.94	21.93	21.92				
20	HQAM	1	49	22.03	22.01	22.02				
20	HQAM	1	99	22.04	21.91	21.98			22.5	
20	HQAM	50	0	20.98	21.07	20.93				
20	HQAM	50	24	21.05	20.99	20.94				
20	HQAM	50	50	21.00	20.88	20.93			20.5	
20	HQAM	100	0	21.08	20.97	20.90				
20	256QAM	1	0	18.01	18.86	18.02				
20	256QAM	1	49	18.04	18.86	18.81			20.5	
20	256QAM	1	99	18.10	18.81	18.90				
20	256QAM	50	0	18.94	18.91	18.88				
20	256QAM	50	24	18.91	18.86	18.88			20.5	
20	256QAM	50	50	18.34	18.07	18.08				
20	256QAM	100	0	18.07	18.93	18.91				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.90	23.96	23.95			20.5	
15	QPSK	1	49	23.80	23.78	23.78				
15	QPSK	1	74	23.75	23.70	23.70				
15	QPSK	36	0	23.00	23.01	22.98			24.5	
15	QPSK	36	26	23.02	22.93	22.89				
15	QPSK	36	39	22.81	22.89	22.85				
15	QPSK	75	0	22.90	22.90	22.86			24.5	
15	HQAM	1	0	23.34	23.27	23.31				
15	HQAM	1	37	23.11	23.11	23.04				
15	HQAM	1	75	23.08	23.04	23.08			23.5	
15	HQAM	36	0	21.96	21.97	21.91				
15	HQAM	36	20	21.98	21.88	21.85				
15	HQAM	36	39	21.96	21.86	21.85			23.5	
15	HQAM	75	0	21.99	21.96	21.92				
15	HQAM	1	0	21.21	22.13	22.02				
15	HQAM	1	74	22.02	21.86	21.98			22.5	
15	HQAM	36	0	20.80	21.02	20.81				
15	HQAM	36	20	21.04	20.93	20.87				
15	HQAM	36	39	20.92	20.85	20.84			20.5	
15	HQAM	75	0	20.99	20.92	20.89				
15	256QAM	1	0	18.03	18.86	18.01				
15	256QAM	1	37	18.03	18.76	18.80			20.5	
15	256QAM	36	0	18.04	18.09	18.04				
15	256QAM	36	20	18.82	18.87	18.78				
15	256QAM	36	39	18.06	18.04	18.94			20.5	
15	256QAM	75	0	18.01	18.09	18.93				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.93	23.95	23.98			20.5	
10	QPSK	1	25	23.72	23.78	23.78				
10	QPSK	1	49	23.73	23.77	23.87				
10	QPSK	25	0	22.92	23.03	22.90			24.5	
10	QPSK	25	12	22.95	22.88	22.84				
10	QPSK	25	26	22.98	22.95	22.89				
10	QPSK	50	0	22.95	22.89	22.82			24.5	
10	HQAM	1	0	23.28	23.25	23.32				
10	HQAM	1	25	23.15	23.12	23.09				
10	HQAM	1	49	23.12	23.09	22.98			23.5	
10	HQAM	25	0	21.98	21.91	21.97				
10	HQAM	25	12	22.04	21.96	21.92				
10	HQAM	25	26	21.96	21.87	21.90			23.5	
10	HQAM	50	0	21.01	21.86	21.82				
10	HQAM	1	0	21.21	22.19	22.02				
10	HQAM	1	25	22.00	21.92	21.96			22.5	
10	HQAM	1	49	22.00	21.82	21.98				
10	HQAM	25	0	20.83	21.83	20.83				
10	HQAM	25	12	21.02	20.99	20.94			22.5	
10	HQAM	25	26	20.98	20.85	20.88				
10	HQAM	50	0	20.98	20.89	20.88				
10	256QAM	1	0	18.04	18.00	18.00			20.5	
10	256QAM	1	25	18.04	18.00	18.00				
10	256QAM	1	49	18.02	18.91	18.92				
10	256QAM	25	0	18.04	18.85	18.81			20.5	
10	256QAM	25	12	18.83	18.09	18.93				
10	256QAM	25	26	18.04	18.93	18.94				
10	256QAM	50	0	18.00	18.92	18.91			20.5	
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.97	23.98	23.98			20.5	
5	QPSK	1	12	23.81	23.80	23.78				
5	QPSK	1	24	23.70	23.74	23.84				
5	QPSK	12	0	22.93	23.04	22.98			24.5	
5	QPSK	12	7	22.94	22.91	22.84				
5	QPSK	12	13	22.93	22.84	22.83				
5	QPSK	24	0	22.90	22.90	22.86			24.5	
5	HQAM	1	0	23.27	23.23	23.28				
5	HQAM	1	12	23.11	23.16	23.08				
5	HQAM	1	24	23.09	23.00	23.00			23.5	
5	HQAM	12	0	21.95	21.98	21.93				
5	HQAM	12	13	22.04	21.80	21.80				
5	HQAM	12	13	21.96	21.90	21.89			23.5	
5	HQAM	25	0	21.97	21.96	21.96				
5	HQAM	1	0	21.18	22.05	22.04				
5	HQAM	1	12	21.99	21.87	22.01			22.5	
5	HQAM	11	24	22.03	21.80	21.90				
5	HQAM	12	0	20.98	21.00	20.90				
5	HQAM	12	7	21.02	20.89	20.88			22.5	
5	HQAM	12	13	21.00	20.86	20.83				
5	HQAM	25	0	21.00	20.92	20.85				
5	256QAM	1	0	18.01	18.79	18.02			20.5	
5	256QAM	1	12	18.04	18.77	18.74				
5	256QAM	1	24	18.04	18.92	18.99				
5	256QAM	12	0	18.87	18.90	18.90			20.5	
5	256QAM	12	13	18.86	18.88	18.88				
5	256QAM	25	0	18.04	18.93	18.93				
5	256QAM	25	0	18.04	18.93	18.93			20.5	
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.99	23.93	23.98			20.5	
3	QPSK	1	6	23.81	23.80	23.71				
3	QPSK	1	14	23.78	23.79	23.67				
3	QPSK	8	0	22.90	23.03	22.90			24.5	
3	QPSK	8	4	22.98	22.91	22.85				
3	QPSK	8	7	22.89	22.80	22.83				
3	QPSK	16	0	22.91	22.97	22.95			24.5	
3	HQAM	1	0	23.32	23.24	23.24				
3	HQAM	1	8	23.13	23.15	23.04				
3	HQAM	8	4	23.06	23.09	22.94			23.5	
3	HQAM	8	0	22.01	22.01	21.91				
3	HQAM	8	4	21.95	21.95	21.83				
3	HQAM	16	0	21.05	21.96	21.84			23.5	
3	HQAM	16	0	21.92	21.84	21.83				
3	HQAM	1	0	21.18	22.17	22.02				
3	HQAM	1	8	21.09	21.96	21.98			22.5	
3	HQAM	1	14	22.03	21.89	21.88				
3	HQAM	8	1	20.81	20.97	20.82				
3	HQAM	16	0	20.99	20.92	20.93			22.5	
3	HQAM	8	7	20.95	20.76	20.88				
3	HQAM	16	0	21.06	20.92	20.89				
3	256QAM	1	0	18.01	18.85	18.95			20.5	
3	256QAM	1	8	18.08	18.79	18.79				
3	256QAM	8	0	18.09	18.93	18.90				
3	256QAM	8	4	18.90	18.84	18.81			20.5	
3	256QAM	8	7	18.93	18.99	18.97				
3	256QAM	16	0	18.01	18.91	18.92				
3	256QAM	16	0	18.01	18.91	18.92			20.5	
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.						



Band 5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)		
Channel									
Frequency (MHz)									
ISD									
10	QPSK	1	0	2347	2347	2348	25		
10	QPSK	1	25	2351	2356	2353			
10	QPSK	1	49	2358	2353	2345			
10	QPSK	25	0	2263	2266	2263	24		
10	QPSK	25	12	2272	2267	2262			
10	QPSK	25	25	2288	2276	2284			
10	QPSK	50	0	2272	2266	2259	24		
10	HQAM	1	0	2291	2292	2297			
10	HQAM	1	25	2292	2298	2292			
10	HQAM	1	49	2298	2293	2293	23		
10	HQAM	25	0	2159	2165	2158			
10	HQAM	25	12	2171	2167	2163			
10	HQAM	25	25	2168	2171	2162	23		
10	HQAM	50	0	2176	2184	2182			
10	HQAM	1	25	2158	2150	2175			
10	HQAM	1	49	2167	2163	2177	22		
10	HQAM	25	0	2066	2065	2066			
10	HQAM	25	12	2077	2072	2067			
10	HQAM	25	25	2071	2074	2045	20		
10	HQAM	50	0	2073	2069	2069			
10	256QAM	1	0	1848	1853	1858			
10	256QAM	1	25	1853	1850	1851	20		
10	256QAM	1	49	1850	1853	1854			
10	256QAM	25	0	1847	1848	1845			
10	256QAM	25	12	1848	1842	1839	20		
10	256QAM	25	25	1838	1848	1848			
10	256QAM	50	0	1851	1849	1844			
Channel									
Frequency (MHz)									
ISD									
5	QPSK	1	0	2361	2362	2360	25		
5	QPSK	1	24	2366	2363	2362			
5	QPSK	1	24	2367	2369	2353			
5	QPSK	12	0	2263	2273	2265	24		
5	QPSK	12	12	2276	2274	2268			
5	QPSK	12	12	2285	2287	2287			
5	QPSK	25	0	2268	2272	2258	24		
5	HQAM	1	0	2294	2291	2293			
5	HQAM	1	12	2292	2299	2284			
5	HQAM	1	24	2294	2298	2290	23		
5	HQAM	12	0	2187	2175	2187			
5	HQAM	12	7	2171	2177	2181			
5	HQAM	12	13	2166	2169	2156	23		
5	HQAM	25	0	2172	2174	2160			
5	HQAM	1	0	2188	2195	2186			
5	HQAM	1	24	2183	2190	2178	22		
5	HQAM	1	24	2188	2191	2199			
5	HQAM	12	0	2074	2080	2055			
5	HQAM	12	7	2078	2081	2059	20		
5	HQAM	12	13	2071	2075	2028			
5	HQAM	25	0	2073	2076	2033			
5	256QAM	1	0	1838	1838	1838	20		
5	256QAM	1	12	1859	1840	1853			
5	256QAM	1	24	1848	1848	1848			
5	256QAM	12	7	1844	1837	1836	20		
5	256QAM	12	13	1835	1836	1846			
5	256QAM	25	0	1843	1845	1838			
Channel									
Frequency (MHz)									
ISD									
3	QPSK	1	0	2339	2347	2351	25		
3	QPSK	1	6	2349	2353	2348			
3	QPSK	8	0	2351	2351	2345			
3	QPSK	8	0	2355	2358	2358	24		
3	QPSK	8	4	2268	2258	2254			
3	QPSK	8	6	2263	2265	2259			
3	QPSK	16	0	2262	2260	2250	24		
3	HQAM	1	0	2291	2292	2296			
3	HQAM	1	6	2287	2297	2286			
3	HQAM	1	14	2294	2290	2273	23		
3	HQAM	8	4	2166	2169	2167			
3	HQAM	8	4	2184	2162	2163			
3	HQAM	8	7	2161	2166	2157	23		
3	HQAM	16	0	2166	2164	2152			
3	HQAM	1	0	2185	2187	2174			
3	HQAM	1	6	2178	2183	2169	22		
3	HQAM	8	4	2076	2072	2069			
3	HQAM	8	7	2063	2072	2041			
3	HQAM	16	0	2065	2059	2059	20		
3	256QAM	1	0	1846	1847	1849			
3	256QAM	1	6	1843	1847	1851			
3	256QAM	1	14	1845	1863	1845	20		
3	256QAM	8	0	1836	1844	1836			
3	256QAM	8	4	1846	1837	1836			
3	256QAM	8	7	1834	1842	1843	20		
3	256QAM	16	0	1848	1844	1835			
3	256QAM	16	0	1847	1844	1835			
Channel									
Frequency (MHz)									
ISD									
1.4	QPSK	1	0	2345	2352	2343	25		
1.4	QPSK	1	3	2354	2358	2348			
1.4	QPSK	1	5	2347	2351	2339			
1.4	QPSK	3	0	2353	2352	2347	24		
1.4	QPSK	3	1	2357	2352	2350			
1.4	QPSK	3	3	2353	2357	2348			
1.4	QPSK	6	0	2268	2264	2251	24		
1.4	HQAM	1	0	2279	2284	2278			
1.4	HQAM	1	5	2269	2264	2277			
1.4	HQAM	1	5	2282	2268	2272	24		
1.4	HQAM	3	0	2263	2264	2254			
1.4	HQAM	3	1	2266	2272	2260			
1.4	HQAM	3	1	2261	2263	2249	23		
1.4	HQAM	6	0	2184	2171	2158			
1.4	HQAM	1	3	2184	2181	2144			
1.4	HQAM	1	6	2175	2182	2139	23		
1.4	HQAM	3	0	2178	2174	2132			
1.4	HQAM	3	1	2178	2184	2144			
1.4	HQAM	3	1	2173	2175	2147	22		
1.4	HQAM	6	0	2059	2060	2030			
1.4	256QAM	1	0	1846	1860	1851			
1.4	256QAM	1	3	1846	1847	1851	20		
1.4	256QAM	1	5	1842	1853	1854			
1.4	256QAM	3	0	1845	1847	1841			
1.4	256QAM	3	0	1839	1832	1838	20		
1.4	256QAM	3	1	1834	1839	1841			
1.4	256QAM	6	0	1851	1840	1842			



Band 7_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)	Time-down (min)	
Channel				2560	2560	2560			
Frequency (MHz)				2560	2560	2560			
20	QPSK	1	0	23.87	23.84	23.99			25.5
20	QPSK	1	49	23.93	23.99	23.94			
20	QPSK	1	99	23.99	24.06	24.02			
20	QPSK	64	0	22.97	23.02	23.02			24.5
20	QPSK	50	24	23.10	23.09	23.08			
20	QPSK	50	50	23.11	23.16	23.13			
20	QPSK	100	0	22.07	22.07	22.05			
20	HQAM	1	0	23.27	23.30	23.29			24.5
20	HQAM	1	49	23.29	23.38	23.38			
20	HQAM	1	99	23.33	23.40	23.34			
20	HQAM	50	0	21.98	22.04	22.02			23.5
20	HQAM	50	24	22.10	22.10	22.06			
20	HQAM	50	50	22.13	22.17	22.14			
20	HQAM	100	0	22.08	22.07	22.03			
20	HQAM	1	49	22.04	22.11	22.10			23.5
20	HQAM	1	99	22.10	22.26	22.21			
20	HQAM	1	99	22.24	22.32	22.27			
20	HQAM	50	0	21.08	21.08	21.05			22.5
20	HQAM	50	24	21.12	21.11	21.08			
20	HQAM	50	50	21.15	21.21	21.15			
20	HQAM	100	0	21.12	21.05	21.07			
20	256QAM	1	0	19.20	19.27	19.13			20.5
20	256QAM	1	49	19.20	19.16	19.22			
20	256QAM	1	99	19.12	19.17	19.11			
20	256QAM	50	0	19.12	19.12	19.07			20.5
20	256QAM	50	24	19.22	19.14	19.19			
20	256QAM	50	50	19.17	19.16	19.13			
20	256QAM	100	0	19.23	19.11	19.05			
Channel				2567.5	2567.5	2567.5	Time-up (min)		
Frequency (MHz)				2567.5	2567.5	2567.5			
15	QPSK	1	0	23.83	23.84	23.95			25.5
15	QPSK	1	49	23.86	23.90	23.82			
15	QPSK	1	74	23.97	24.04	23.94			
15	QPSK	38	0	22.95	22.98	23.00			24.5
15	QPSK	38	26	23.08	23.04	23.04			
15	QPSK	38	39	23.08	23.13	23.09			
15	QPSK	75	0	23.02	23.01	23.01			
15	HQAM	1	0	23.23	23.30	23.29			24.5
15	HQAM	1	37	23.24	23.36	23.30			
15	HQAM	1	74	23.31	23.34	23.24			
15	HQAM	38	0	21.88	22.04	22.01			23.5
15	HQAM	38	26	22.10	22.02	21.97			
15	HQAM	38	39	22.10	22.09	22.14			
15	HQAM	75	0	21.98	22.05	21.94			
15	HQAM	1	0	22.07	22.08	22.08			23.5
15	HQAM	1	74	22.08	22.20	22.19			
15	HQAM	1	74	22.14	22.25	22.17			
15	HQAM	38	0	20.95	20.98	21.02			22.5
15	HQAM	38	26	21.03	21.02	21.06			
15	HQAM	38	39	21.12	21.21	21.05			
15	HQAM	75	0	21.99	21.05	21.00			
15	256QAM	1	0	19.17	19.25	19.13			20.5
15	256QAM	1	37	19.16	19.12	19.19			
15	256QAM	1	74	19.14	19.15	19.15			
15	256QAM	38	0	19.04	19.12	19.04			20.5
15	256QAM	38	26	19.14	19.05	19.05			
15	256QAM	38	39	19.15	19.14	19.08			
15	256QAM	75	0	19.23	19.04	19.07			
Channel				2060	2100	2160	Time-up (min)		
Frequency (MHz)				2060	2100	2160			
10	QPSK	1	0	23.89	23.92	23.99			25.5
10	QPSK	1	25	23.93	23.99	23.84			
10	QPSK	1	49	23.98	24.01	23.98			
10	QPSK	25	0	22.91	22.99	22.97			24.5
10	QPSK	25	12	23.07	23.06	23.00			
10	QPSK	25	26	23.01	23.09	23.03			
10	QPSK	50	0	22.99	23.06	23.01			
10	HQAM	1	0	23.17	23.24	23.26			24.5
10	HQAM	1	25	23.27	23.34	23.35			
10	HQAM	1	49	23.31	23.39	23.31			
10	HQAM	25	0	21.92	22.00	21.95			23.5
10	HQAM	25	12	22.07	22.08	22.06			
10	HQAM	25	26	22.08	22.10	22.07			
10	HQAM	50	0	22.02	22.04	22.00			23.5
10	HQAM	1	0	22.00	22.13	22.10			
10	HQAM	1	25	22.06	22.16	22.18			
10	HQAM	1	49	22.14	22.31	22.25			
10	HQAM	25	0	20.91	21.02	20.96			22.5
10	HQAM	25	12	21.04	21.04	21.02			
10	HQAM	25	26	21.08	21.14	21.09			
10	HQAM	50	0	21.10	21.05	21.02			
10	256QAM	1	0	19.15	19.19	19.19			20.5
10	256QAM	1	25	19.20	19.07	19.22			
10	256QAM	1	49	19.10	19.09	19.03			
10	256QAM	25	0	19.03	19.05	19.06			20.5
10	256QAM	25	12	19.21	19.07	19.09			
10	256QAM	25	26	19.16	19.08	19.08			
10	256QAM	50	0	19.18	19.04	19.09			
Channel				2077.5	2190	2165	Time-up (min)		
Frequency (MHz)				2077.5	2190	2165			
5	QPSK	1	0	23.84	23.83	23.98			25.5
5	QPSK	1	12	23.93	23.93	23.88			
5	QPSK	1	24	23.99	24.02	23.95			
5	QPSK	18	0	22.96	22.93	22.99			24.5
5	QPSK	12	7	23.09	23.02	22.96			
5	QPSK	12	13	23.11	23.14	23.13			
5	QPSK	24	0	23.04	22.98	23.01			
5	HQAM	1	0	23.17	23.23	23.19			24.5
5	HQAM	1	12	23.25	23.33	23.30			
5	HQAM	1	24	23.32	23.34	23.34			
5	HQAM	12	0	21.94	21.98	21.98			23.5
5	HQAM	12	13	22.03	22.02	22.05			
5	HQAM	12	13	22.10	22.15	22.14			
5	HQAM	25	0	22.00	22.07	21.95			23.5
5	HQAM	1	0	22.01	22.10	22.09			
5	HQAM	1	12	22.10	22.21	22.15			
5	HQAM	11	24	22.19	22.31	22.19			
5	HQAM	12	0	20.91	20.99	20.99			22.5
5	HQAM	12	7	21.07	21.02	21.03			
5	HQAM	12	13	21.08	21.17	21.08			
5	HQAM	25	0	21.04	21.02	21.07			
5	256QAM	1	0	19.11	19.25	19.11			20.5
5	256QAM	1	12	19.25	19.08	19.15			
5	256QAM	1	24	19.08	19.10	19.03			
5	256QAM	12	0	19.08	19.06	19.06			20.5
5	256QAM	12	7	19.22	19.13	19.00			
5	256QAM	12	13	19.12	19.07	19.13			
5	256QAM	25	0	19.22	19.07	19.02			



Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (min)		
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
10	QPSK	1	0	2448	2458	2459	25.7		
10	QPSK	1	26	2439	2442	2440			
10	QPSK	1	49	2450	2443	2448	24.7		
10	QPSK	25	0	2353	2354	2353			
10	QPSK	25	12	2380	2353	2353	24.7		
10	QPSK	25	25	2358	2359	2360			
10	QPSK	50	0	2381	2353	2353	24.7		
10	HQAM	1	0	2382	2376	2378			
10	HQAM	1	26	2381	2382	2380	23.7		
10	HQAM	1	49	2387	2386	2378			
10	HQAM	25	0	2254	2255	2253	23.7		
10	HQAM	25	12	2261	2255	2254			
10	HQAM	25	25	2259	2260	2257	23.7		
10	HQAM	50	0	2260	2255	2252			
10	HQAM	1	0	2254	2254	2262	22.7		
10	HQAM	1	26	2271	2276	2274			
10	HQAM	1	49	2273	2254	2239	22.7		
10	HQAM	25	0	2127	2136	2136			
10	HQAM	25	12	2149	2155	2158	20.7		
10	HQAM	25	25	2153	2160	2161			
10	HQAM	50	0	2141	2155	2159	20.7		
10	256QAM	1	0	1947	1986	1947			
10	256QAM	1	26	1953	1973	1949	20.7		
10	256QAM	1	49	1964	1955	1937			
10	256QAM	25	0	1944	1946	1940	20.7		
10	256QAM	25	12	1945	1946	1946			
10	256QAM	25	25	1939	1941	1943	20.7		
10	256QAM	50	0	1951	1943	1941			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
5	QPSK	1	0	2448	2447	2439	25.7		
5	QPSK	1	26	2448	2448	2440			
5	QPSK	1	24	2447	2449	2446	24.7		
5	QPSK	12	0	2362	2354	2355			
5	QPSK	12	6	2355	2358	2350	24.7		
5	QPSK	12	12	2355	2354	2351			
5	QPSK	25	0	2358	2352	2352	24.7		
5	HQAM	1	0	2383	2383	2373			
5	HQAM	1	12	2380	2379	2373	23.7		
5	HQAM	1	24	2382	2380	2376			
5	HQAM	12	0	2266	2262	2259	23.7		
5	HQAM	12	7	2258	2264	2254			
5	HQAM	12	13	2265	2259	2254	23.7		
5	HQAM	25	0	2259	2253	2253			
5	HQAM	1	0	2224	2237	2286	23.7		
5	HQAM	1	24	2248	2274	2289			
5	HQAM	1	24	2223	2273	2249	22.7		
5	HQAM	12	0	2135	2164	2160			
5	HQAM	12	6	2145	2167	2161	20.7		
5	HQAM	12	12	2135	2180	2142			
5	HQAM	25	0	2111	2157	2150	20.7		
5	256QAM	1	0	1938	1936	1945			
5	256QAM	1	12	1950	1984	1939	20.7		
5	256QAM	1	24	1952	1947	1954			
5	256QAM	12	0	1943	1938	1932	20.7		
5	256QAM	12	7	1938	1932	1945			
5	256QAM	12	13	1938	1938	1934	20.7		
5	256QAM	25	0	1947	1933	1933			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
3	QPSK	1	0	2448	2437	2433	25.7		
3	QPSK	1	6	2434	2442	2436			
3	QPSK	1	11	2443	2433	2436	24.7		
3	QPSK	6	0	2343	2354	2348			
3	QPSK	6	4	2352	2349	2351	24.7		
3	QPSK	6	8	2349	2358	2351			
3	QPSK	16	0	2358	2351	2345	24.7		
3	HQAM	1	0	2376	2386	2370			
3	HQAM	1	6	2376	2379	2372	23.7		
3	HQAM	1	14	2385	2383	2380			
3	HQAM	1	4	2252	2251	2249	23.7		
3	HQAM	6	4	2260	2245	2242			
3	HQAM	6	7	2250	2250	2254	23.7		
3	HQAM	16	0	2267	2250	2245			
3	HQAM	1	0	2247	2255	2267	22.7		
3	HQAM	1	6	2266	2272	2274			
3	HQAM	1	14	2266	2248	2233	22.7		
3	HQAM	6	0	2117	2131	2155			
3	HQAM	6	4	2140	2152	2159	22.7		
3	HQAM	6	7	2147	2153	2153			
3	HQAM	16	0	2131	2149	2150	20.7		
3	256QAM	1	0	1944	1957	1941			
3	256QAM	1	6	1949	1958	1948	20.7		
3	256QAM	1	14	1958	1954	1949			
3	256QAM	6	0	1943	1936	1930	20.7		
3	256QAM	6	4	1943	1939	1943			
3	256QAM	6	7	1937	1941	1942	20.7		
3	256QAM	16	0	1943	1937	1939			
Channel									
Frequency (MHz)									
707.5 717.5 721.5									
1.4	QPSK	1	0	2444	2433	2436	25.7		
1.4	QPSK	1	3	2444	2442	2438			
1.4	QPSK	1	5	2437	2436	2429	24.7		
1.4	QPSK	3	1	2442	2438	2437			
1.4	QPSK	3	1	2449	2442	2440	24.7		
1.4	QPSK	3	3	2443	2443	2437			
1.4	QPSK	6	0	2350	2347	2343	24.7		
1.4	HQAM	1	0	2376	2367	2371			
1.4	HQAM	1	5	2376	2366	2377	24.7		
1.4	HQAM	1	5	2370	2369	2363			
1.4	HQAM	3	0	2353	2347	2347	23.7		
1.4	HQAM	3	0	2366	2351	2350			
1.4	HQAM	3	1	2351	2350	2343	23.7		
1.4	HQAM	6	0	2257	2256	2249			
1.4	HQAM	1	0	2234	2261	2237	23.7		
1.4	HQAM	1	3	2245	2272	2234			
1.4	HQAM	1	6	2247	2263	2220	23.7		
1.4	HQAM	3	0	2228	2256	2239			
1.4	HQAM	3	1	2228	2261	2237	22.7		
1.4	HQAM	6	0	2123	2150	2123			
1.4	256QAM	1	0	1938	1958	1939	20.7		
1.4	256QAM	1	6	1945	1971	1941			
1.4	256QAM	1	6	1951	1954	1953	20.7		
1.4	256QAM	3	0	1943	1943	1936			
1.4	256QAM	3	1	1938	1942	1937	20.7		
1.4	256QAM	3	1	1939	1931	1938			
1.4	256QAM	6	0	1949	1937	1939	20.7		





Band 13_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2153		
10	QPSK	1	25	2151		
10	QPSK	1	49	2157		
10	QPSK	25	0	2240		
10	QPSK	25	12	2241		
10	QPSK	25	25	2245		
10	QPSK	50	0	2251		
10	QPSK	50	0	2252		
10	HQAM	1	25	2286		
10	HQAM	1	49	2288		
10	HQAM	25	0	2151		
10	HQAM	25	12	2156		
10	HQAM	25	25	2160		
10	HQAM	50	0	2194		
10	HQAM	50	0	2195		
10	HQAM	1	25	2151		
10	HQAM	1	49	2178		
10	HQAM	25	0	2095		
10	HQAM	25	12	2089		
10	HQAM	25	25	2071		
10	HQAM	50	0	2088		
10	256QAM	1	0	1825		
10	256QAM	1	25	1830		
10	256QAM	25	0	1841		
10	256QAM	25	12	1846		
10	256QAM	25	25	1859		
10	256QAM	50	0	1844		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2345	2348	2322
5	QPSK	1	24	2350	2354	2334
5	QPSK	1	24	2355	2356	2331
5	QPSK	12	0	2258	2259	2232
5	QPSK	12	12	2262	2263	2240
5	QPSK	12	12	2265	2267	2238
5	QPSK	25	0	2285	2283	2237
5	HQAM	1	0	2284	2278	2250
5	HQAM	1	12	2275	2252	2248
5	HQAM	1	24	2284	2288	2251
5	HQAM	12	0	2182	2184	2136
5	HQAM	12	7	2188	2184	2143
5	HQAM	12	13	2184	2171	2142
5	HQAM	25	0	2170	2163	2141
5	HQAM	1	0	2173	2168	2142
5	HQAM	1	24	2169	2181	2148
5	HQAM	1	24	2177	2181	2148
5	HQAM	12	0	2086	2070	2043
5	HQAM	12	7	2072	2087	2045
5	HQAM	12	13	2071	2075	2043
5	HQAM	25	0	2073	2088	2042
5	256QAM	1	0	1816	1824	1822
5	256QAM	1	12	1843	1845	1847
5	256QAM	1	24	1865	1867	1856
5	256QAM	12	7	1837	1835	1838
5	256QAM	12	7	1848	1836	1840
5	256QAM	12	13	1838	1835	1834
5	256QAM	25	0	1837	1834	1841



Band 14_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	23.68	23.68	23.68
10	QPSK	1	49	23.68	23.68	23.68
10	QPSK	25	0	22.63	22.63	22.63
10	QPSK	25	12	22.65	22.65	22.65
10	QPSK	25	25	22.74	22.74	22.74
10	QPSK	50	0	22.97	22.97	22.97
10	HQAM	1	0	23.92	23.92	23.92
10	HQAM	1	25	22.99	22.99	22.99
10	HQAM	1	49	22.97	22.97	22.97
10	HQAM	25	0	21.85	21.85	21.85
10	HQAM	25	12	21.88	21.88	21.88
10	HQAM	25	25	21.73	21.73	21.73
10	HQAM	50	0	21.88	21.88	21.88
10	HQAM	1	0	21.90	21.90	21.90
10	HQAM	1	25	21.95	21.95	21.95
10	HQAM	1	49	21.99	21.99	21.99
10	HQAM	25	0	20.87	20.87	20.87
10	HQAM	25	12	20.89	20.89	20.89
10	HQAM	25	25	20.76	20.76	20.76
10	HQAM	50	0	20.87	20.87	20.87
10	256QAM	1	0	18.45	18.45	18.45
10	256QAM	1	25	18.58	18.58	18.58
10	256QAM	1	49	18.74	18.74	18.74
10	256QAM	25	0	18.50	18.50	18.50
10	256QAM	25	12	18.44	18.44	18.44
10	256QAM	25	25	18.47	18.47	18.47
10	256QAM	50	0	18.50	18.50	18.50
Channel						
Frequency (MHz)						
5	QPSK	1	0	23.68	23.68	23.68
5	QPSK	1	49	23.63	23.63	23.63
5	QPSK	1	24	23.65	23.64	23.58
5	QPSK	12	0	22.71	22.65	22.84
5	QPSK	12	12	22.76	22.73	22.70
5	QPSK	12	13	22.71	22.73	22.88
5	QPSK	25	0	22.89	22.86	22.83
5	HQAM	1	0	22.91	22.92	22.97
5	HQAM	1	12	23.09	23.02	22.98
5	HQAM	1	24	22.98	23.00	22.99
5	HQAM	12	0	21.73	21.68	21.64
5	HQAM	12	7	21.77	21.77	21.78
5	HQAM	12	13	21.73	21.72	21.86
5	HQAM	25	0	21.71	21.68	21.64
5	HQAM	1	0	21.87	21.89	21.85
5	HQAM	1	49	21.93	22.00	21.94
5	HQAM	1	24	21.90	21.95	21.92
5	HQAM	12	0	20.89	20.71	20.89
5	HQAM	12	7	20.78	20.83	20.75
5	HQAM	12	13	20.75	20.76	20.89
5	HQAM	25	0	20.72	20.87	20.89
5	256QAM	1	0	18.38	18.37	18.42
5	256QAM	1	12	18.55	18.48	18.55
5	256QAM	1	24	18.74	18.72	18.65
5	256QAM	12	7	18.38	18.34	18.35
5	256QAM	12	13	18.47	18.46	18.39
5	256QAM	25	0	18.40	18.47	18.44



Band 17_Ant 1								
Ev (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up (MHz)	
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.28	23.31	23.32	25	
10	QPSK	1	25	23.32	23.31	23.37		
10	QPSK	1	49	23.37	23.45	23.38		
10	QPSK	25	0	22.38	22.39	22.41	24	
10	QPSK	25	12	22.52	22.50	22.48		
10	QPSK	25	25	22.58	22.57	22.55		
10	QPSK	50	0	22.47	22.48	22.45	24	
10	16QAM	1	0	22.70	22.68	22.69		
10	16QAM	1	25	22.75	22.76	22.74		
10	16QAM	1	49	22.78	22.80	22.77	23	
10	16QAM	25	0	21.41	21.41	21.41		
10	16QAM	25	12	21.52	21.44	21.47		
10	16QAM	25	25	21.57	21.54	21.51	23	
10	16QAM	50	0	21.44	21.46	21.42		
10	16QAM	1	0	21.52	21.54	21.50		
10	16QAM	1	25	21.57	21.59	21.58	22	
10	16QAM	1	49	21.53	21.60	21.48		
10	16QAM	25	0	20.45	20.43	20.44		
10	16QAM	25	12	20.59	20.51	20.51	20	
10	16QAM	25	25	20.50	20.58	20.58		
10	16QAM	50	0	20.40	20.47	20.46		
10	256QAM	1	0	18.34	18.39	18.22	20	
10	256QAM	1	25	18.43	18.45	18.47		
10	256QAM	1	49	18.54	18.47	18.38		
10	256QAM	25	0	18.31	18.27	18.30	20	
10	256QAM	25	12	18.32	18.40	18.34		
10	256QAM	25	25	18.40	18.37	18.39		
10	256QAM	50	0	18.27	18.40	18.31	20	
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.33	23.28	23.27	25	
5	QPSK	1	12	23.42	23.42	23.30		
5	QPSK	1	24	23.43	23.44	23.40		
5	QPSK	12	0	22.44	22.46	22.41	24	
5	QPSK	12	7	22.51	22.48	22.43		
5	QPSK	12	13	22.53	22.52	22.45		
5	QPSK	25	0	22.40	22.47	22.42	24	
5	16QAM	1	0	22.45	22.47	22.46		
5	16QAM	1	12	22.74	22.70	22.70		
5	16QAM	1	24	22.78	22.79	22.75	23	
5	16QAM	12	0	21.48	21.47	21.48		
5	16QAM	12	7	21.53	21.52	21.45		
5	16QAM	12	13	21.54	21.53	21.47	23	
5	16QAM	25	0	21.51	21.48	21.44		
5	16QAM	1	0	21.57	21.66	21.63		
5	16QAM	1	12	21.68	21.70	21.64	23	
5	16QAM	1	24	21.79	21.78	21.67		
5	16QAM	12	0	20.50	20.49	20.47		
5	16QAM	12	7	20.57	20.55	20.51	22	
5	16QAM	12	13	20.57	20.58	20.52		
5	16QAM	25	0	20.51	20.49	20.47		
5	256QAM	1	0	18.25	18.31	18.16	20	
5	256QAM	1	12	18.40	18.45	18.42		
5	256QAM	1	24	18.52	18.50	18.37		
5	256QAM	12	0	18.25	18.25	18.25	20	
5	256QAM	12	7	18.25	18.33	18.30		
5	256QAM	12	13	18.38	18.27	18.37		
5	256QAM	25	0	18.20	18.30	18.31	20	
Channel								
Frequency (MHz)								



Band 25_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power High	Power Low	Power High	Turn-up	Turn-down
Channel				2415	2460	2415	2460		
Frequency (MHz)				1860	1860	1860	1860		
20	QPSK	1	0	2159	2159	2159	2159		
20	QPSK	1	49	2161	2161	2161	2161		20.5
20	QPSK	1	99	2164	2164	2164	2164		
20	QPSK	64	0	2276	2276	2276	2276		
20	QPSK	50	24	2275	2280	2280	2281		24.5
20	QPSK	50	50	2288	2274	2274	2279		
20	QPSK	100	0	2278	2274	2274	2278		
20	HQAM	1	0	2286	2289	2289	2290		
20	HQAM	1	49	2292	2295	2295	2300		24.5
20	HQAM	1	99	2288	2288	2288	2295		
20	HQAM	50	0	2169	2173	2173	2177		
20	HQAM	50	24	2174	2180	2180	2178		23.5
20	HQAM	50	50	2172	2174	2174	2182		
20	HQAM	100	0	2174	2178	2178	2174		
20	HQAM	1	0	2187	2186	2186	2187		
20	HQAM	1	49	2183	2182	2182	2181		23.5
20	HQAM	1	99	2182	2188	2188	2187		
20	HQAM	50	0	2072	2078	2078	2080		
20	HQAM	50	24	2078	2083	2083	2085		22.5
20	HQAM	50	50	2071	2077	2077	2084		
20	HQAM	100	0	2072	2078	2078	2084		
20	256QAM	1	0	1859	1887	1887	1888		
20	256QAM	1	49	1870	1867	1867	1868		20.5
20	256QAM	1	99	1850	1852	1852	1859		
20	256QAM	50	0	1876	1880	1880	1885		
20	256QAM	50	24	1875	1880	1880	1885		20.5
20	256QAM	50	50	1875	1887	1887	1890		
20	256QAM	100	0	1888	1888	1887	1887		
Channel				2531.5	2531.5	2531.5	2531.5		
Frequency (MHz)				1897.5	1890	1897.5	1897.5		
15	QPSK	1	0	2352	2352	2353	2353		20.5
15	QPSK	1	49	2356	2351	2351	2357		
15	QPSK	1	74	2353	2362	2362	2356		
15	QPSK	36	0	2287	2288	2288	2288		24.5
15	QPSK	36	26	2272	2279	2279	2278		
15	QPSK	36	39	2281	2285	2285	2281		
15	QPSK	75	0	2271	2272	2272	2271		
15	HQAM	1	0	2291	2299	2299	2303		
15	HQAM	1	37	2287	2292	2292	2286		24.5
15	HQAM	1	75	2286	2288	2288	2288		
15	HQAM	36	0	2187	2189	2174	2174		
15	HQAM	36	20	2173	2180	2180	2189		23.5
15	HQAM	36	39	2171	2185	2185	2180		
15	HQAM	75	0	2168	2171	2159	2159		
15	HQAM	1	0	2187	2186	2182	2182		
15	HQAM	1	49	2178	2181	2181	2187		23.5
15	HQAM	1	74	2174	2178	2178	2178		
15	HQAM	36	0	2085	2088	2059	2059		
15	HQAM	36	26	2071	2077	2077	2077		22.5
15	HQAM	36	39	2085	2087	2076	2076		
15	HQAM	75	0	2086	2076	2053	2053		
15	256QAM	1	0	1858	1848	1848	1848		20.5
15	256QAM	1	37	1873	1836	1836	1830		
15	256QAM	1	75	1873	1836	1836	1830		
15	256QAM	36	0	1872	1874	1854	1854		20.5
15	256QAM	36	20	1878	1879	1884	1884		
15	256QAM	36	39	1870	1882	1886	1886		
15	256QAM	75	0	1858	1836	1830	1830		
Channel				2600	2600	2600	2600		
Frequency (MHz)				1900	1900	1900	1900		
10	QPSK	1	0	2357	2351	2350	2350		20.5
10	QPSK	1	25	2358	2359	2358	2358		
10	QPSK	1	49	2351	2358	2358	2358		
10	QPSK	25	0	2270	2268	2272	2272		24.5
10	QPSK	25	12	2273	2272	2272	2272		
10	QPSK	25	26	2285	2269	2280	2280		
10	QPSK	50	0	2268	2273	2273	2273		
10	HQAM	1	0	2291	2290	2290	2290		24.5
10	HQAM	1	26	2284	2287	2287	2287		
10	HQAM	1	49	2282	2291	2285	2285		
10	HQAM	25	0	2185	2170	2169	2169		23.5
10	HQAM	25	12	2172	2171	2178	2178		
10	HQAM	25	26	2168	2170	2173	2173		
10	HQAM	50	0	2185	2180	2171	2171		
10	HQAM	1	0	2188	2188	2182	2182		
10	HQAM	1	25	2174	2180	2187	2187		23.5
10	HQAM	1	49	2175	2183	2182	2182		
10	HQAM	25	0	2088	2078	2055	2055		
10	HQAM	25	12	2076	2083	2080	2080		22.5
10	HQAM	25	26	2085	2078	2076	2076		
10	HQAM	50	0	2071	2077	2029	2029		
10	256QAM	1	0	1859	1857	1850	1850		20.5
10	256QAM	1	49	1887	1891	1896	1896		
10	256QAM	25	0	1875	1874	1884	1884		20.5
10	256QAM	25	12	1873	1854	1850	1850		
10	256QAM	25	26	1867	1878	1885	1885		
10	256QAM	50	0	1877	1883	1893	1893		
Channel				2685	2680	2685	2685		
Frequency (MHz)				1912.5	1910	1912.5	1912.5		
5	QPSK	1	0	2353	2354	2358	2358		20.5
5	QPSK	1	12	2352	2354	2359	2359		
5	QPSK	1	24	2352	2358	2352	2352		
5	QPSK	15	0	2281	2285	2272	2272		24.5
5	QPSK	12	7	2287	2278	2285	2285		
5	QPSK	12	13	2284	2271	2283	2283		
5	QPSK	24	0	2272	2265	2272	2272		
5	HQAM	1	0	2295	2289	2295	2295		24.5
5	HQAM	1	12	2287	2287	2287	2287		
5	HQAM	1	24	2288	2292	2288	2288		
5	HQAM	12	0	2188	2185	2173	2173		23.5
5	HQAM	12	11	2185	2170	2170	2170		
5	HQAM	12	13	2188	2174	2178	2178		
5	HQAM	25	0	2174	2174	2187	2187		23.5
5	HQAM	25	6	2184	2187	2179	2179		
5	HQAM	1	12	2182	2180	2189	2189		
5	HQAM	11	24	2177	2184	2186	2186		
5	HQAM	12	0	2069	2074	2059	2059		22.5
5	HQAM	12	7	2073	2082	2077	2077		
5	HQAM	12	13	2081	2081	2081	2081		
5	HQAM	25	0	2072	2078	2020	2020		20.5
5	256QAM	1	0	1898	1886	1890	1890		
5	256QAM	1	12	1877	1880	1896	1896		20.5
5	256QAM	1	24	1887	1859	1850	1850		
5	256QAM	12	0	1871	1872	1882	1882		20.5
5	256QAM	12	11	1874	1883	1880	1880		
5	256QAM	12	13	1888	1879	1885	1885		
5	256QAM	25	0	1881	1877	1887	1887		
Channel				2690	2690	2690	2690		
Frequency (MHz)				1920.7	1920	1920.7	1920.7		
3	QPSK	1	0	2359	2356	2359	2359		20.5
3	QPSK	1	6	2358	2352	2352	2352		
3	QPSK	1	14	2359	2353	2358	2358		
3	QPSK	8	0	2283	2287	2272	2272		24.5
3	QPSK	8	4	2272	2279	2275	2275		
3	QPSK	8	7	2288	2289	2279	2279		
3	QPSK	15	0	2285	2285	2273	2273		
3	HQAM	1	0	2287	2298	2292	2292		24.5
3	HQAM	1	8	2288	2294	2300	2300		
3	HQAM	1	11	2285	2294	2291	2291		
3	HQAM	8	0	2188	2187	2174	2174		23.5
3	HQAM	8	4	2173	2177	2175	2175		
3	HQAM	8	7	2171	2186	2178	2178		
3	HQAM	15	0	2173	2175	2172	2172		23.5
3	HQAM	1	0	2187	2190	2187	2187		
3	HQAM	8	0	2170	2178	2155	2155		23.5
3	HQAM	1	14	2180	2181	2152	2152		
3	HQAM	8	1	2086	2086	2057	2057		22.5
3	HQAM	12	4	2078	2078	2074	2074		
3	HQAM	8	7	2087	2088	2074	2074		
3	HQAM	15	0	2086	2077	2024	2024		20.5
3	256QAM	1	0	1859	1886	1888	1888		
3	256QAM	1	8	1871	1887	1895	1895		20.5
3	256QAM	8	0	1870	1870	1881	1881		
3	256QAM	8	4	1881	1887	1880	1880		20.5
3	256QAM	8	7	1871	1886	1885	1885		
3	256QAM	15	0	1885	1883	1892	1892		
Channel				2697	2690	2693	2693		
Frequency (MHz)				1927.7	1920	1923.7	1923.7		
1.4	QPSK	1	0	2357	2355	2359	2359		20.5
1.4	QPSK	1	3	2358	2363	2358	2358		
1.4	QPSK	3	0	2353	2361	2361	2361		
1.4	QPSK	3	0	2354	2355	2362	2362		
1.4	QPSK	3	1	2285	2281	2289	2289		24.5
1.4	QPSK	3	1	2358	2362	2366	2366		
1.4	HQAM	1	0	2282	2289	2278	2278		24.5
1.4									



Band 26_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Power Max	Power Min	Time-up (sec)
Channel									
Frequency (MHz)									
15	QPSK	1	0	2340	2340	2341			25
15	QPSK	1	74	2351	2348	2333			
15	QPSK	36	0	2263	2264	2257			24
15	QPSK	36	20	2261	2263	2255			
15	QPSK	36	39	2262	2262	2254			
15	QPSK	75	0	2268	2264	2257			
15	QPSK	1	0	2287	2279	2278			24
15	HQAM	1	37	2278	2278	2276			
15	HQAM	1	74	2274	2274	2264			
15	HQAM	36	0	2161	2160	2159			23
15	HQAM	36	20	2164	2164	2156			
15	HQAM	36	39	2161	2162	2158			
15	HQAM	75	0	2198	2194	2159			
15	HQAM	1	0	2173	2184	2186			23
15	HQAM	1	37	2171	2174	2158			
15	HQAM	1	74	2173	2168	2168			
15	HQAM	36	0	2038	2063	2065			22
15	HQAM	36	20	2032	2069	2066			
15	HQAM	36	39	2035	2068	2048			
15	HQAM	75	0	2027	2066	2059			
15	256QAM	1	0	1864	1853	1858			20
15	256QAM	1	37	1859	1853	1850			
15	256QAM	1	74	1850	1857	1849			
15	256QAM	36	0	1848	1850	1850			
15	256QAM	36	20	1847	1847	1836			20
15	256QAM	36	39	1837	1841	1842			
15	256QAM	75	0	1848	1851	1839			
Channel									
Frequency (MHz)									
10	QPSK	1	0	2354	2339	2345			25
10	QPSK	1	26	2338	2340	2342			
10	QPSK	1	49	2342	2349	2329			
10	QPSK	26	0	2259	2255	2255			24
10	QPSK	26	0	2263	2260	2250			
10	QPSK	26	26	2262	2267	2249			
10	QPSK	50	0	2264	2264	2253			
10	HQAM	1	0	2262	2275	2273			24
10	HQAM	1	26	2276	2273	2273			
10	HQAM	1	49	2273	2271	2262			
10	HQAM	26	0	2167	2159	2157			
10	HQAM	26	12	2157	2158	2153			23
10	HQAM	26	26	2167	2162	2154			
10	HQAM	50	0	2169	2163	2150			
10	HQAM	1	0	2173	2162	2168			23
10	HQAM	1	26	2168	2174	2159			
10	HQAM	1	49	2171	2160	2168			
10	HQAM	26	0	2022	2060	2061			22
10	HQAM	26	12	2044	2067	2057			
10	HQAM	26	26	2057	2062	2042			
10	HQAM	50	0	2062	2059	2051			20
10	256QAM	1	0	1851	1849	1855			
10	256QAM	1	26	1849	1847	1847			
10	256QAM	1	49	1847	1847	1836			
10	256QAM	26	0	1841	1845	1843			20
10	256QAM	26	12	1848	1845	1830			
10	256QAM	26	26	1835	1840	1842			
10	256QAM	50	0	1845	1841	1837			
Channel									
Frequency (MHz)									
5	QPSK	1	0	2353	2340	2347			25
5	QPSK	1	12	2337	2344	2335			
5	QPSK	1	24	2339	2342	2339			
5	QPSK	12	0	2280	2255	2257			24
5	QPSK	12	7	2257	2258	2253			
5	QPSK	12	14	2260	2252	2256			
5	QPSK	26	0	2262	2264	2248			
5	HQAM	1	0	2267	2278	2274			24
5	HQAM	1	12	2273	2279	2272			
5	HQAM	1	24	2264	2267	2258			
5	HQAM	12	0	2167	2158	2149			23
5	HQAM	12	7	2159	2161	2147			
5	HQAM	12	14	2158	2160	2153			
5	HQAM	26	0	2164	2164	2157			
5	HQAM	1	0	2172	2160	2163			23
5	HQAM	1	12	2169	2171	2168			
5	HQAM	1	24	2171	2159	2168			
5	HQAM	12	0	2020	2034	2037			22
5	HQAM	12	7	2046	2060	2052			
5	HQAM	12	14	2069	2067	2049			
5	HQAM	26	0	2065	2057	2057			20
5	256QAM	1	0	1854	1849	1848			
5	256QAM	1	12	1859	1848	1842			
5	256QAM	1	24	1849	1858	1830			
5	256QAM	12	0	1845	1841	1836			20
5	256QAM	12	7	1845	1839	1829			
5	256QAM	12	14	1827	1841	1838			
5	256QAM	26	0	1848	1843	1838			
Channel									
Frequency (MHz)									
3	QPSK	1	0	2347	2344	2345			25
3	QPSK	1	8	2341	2346	2334			
3	QPSK	1	14	2351	2344	2327			
3	QPSK	8	0	2262	2259	2249			24
3	QPSK	8	4	2262	2258	2250			
3	QPSK	8	7	2258	2258	2256			
3	QPSK	16	0	2269	2264	2251			
3	HQAM	1	0	2277	2277	2272			24
3	HQAM	1	8	2276	2269	2270			
3	HQAM	1	14	2271	2268	2262			
3	HQAM	8	0	2154	2157	2156			23
3	HQAM	8	4	2154	2160	2152			
3	HQAM	8	7	2151	2154	2152			
3	HQAM	16	0	2164	2156	2153			23
3	HQAM	1	0	2165	2156	2168			
3	HQAM	1	8	2189	2173	2183			
3	HQAM	1	14	2173	2163	2168			
3	HQAM	8	0	2029	2058	2060			22
3	HQAM	8	4	2044	2063	2053			
3	HQAM	8	7	2069	2066	2059			
3	HQAM	16	0	2051	2055	2058			20
3	256QAM	1	0	1857	1849	1856			
3	256QAM	1	8	1859	1849	1848			
3	256QAM	1	14	1841	1856	1838			
3	256QAM	8	0	1844	1850	1845			20
3	256QAM	8	4	1848	1843	1833			
3	256QAM	8	7	1835	1836	1832			
3	256QAM	16	0	1848	1848	1833			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	2357	2342	2341			25
1.4	QPSK	1	0	2358	2354	2349			
1.4	QPSK	1	5	2353	2344	2331			
1.4	QPSK	3	0	2359	2345	2341			24
1.4	QPSK	3	0	2357	2352	2346			
1.4	QPSK	3	3	2359	2349	2344			
1.4	QPSK	6	0	2267	2267	2246			24
1.4	HQAM	1	0	2292	2282	2289			
1.4	HQAM	1	3	2295	2284	2274			24
1.4	HQAM	3	0	2288	2274	2281			
1.4	HQAM	3	0	2270	2257	2249			
1.4	HQAM	3	1	2277	2262	2252			
1.4	HQAM	3	0	2268	2260	2244			23
1.4	HQAM	6	0	2171	2185	2151			
1.4	HQAM	1	0	2144	2174	2152			23
1.4	HQAM	1	0	2169	2162	2158			
1.4	HQAM	1	5	2144	2174	2152			
1.4	HQAM	3	0	2148	2168	2150			22
1.4	HQAM	3	1	2155	2173	2158			
1.4	HQAM	3	3	2144	2171	2157			
1.4	HQAM	6	0	2027	2061	2050			20
1.4	256QAM	1	0	1853	1851	1855			
1.4	256QAM	1	3	1858	1847	1850			
1.4	256QAM	3	0	1841	1847	1836			20
1.4	256QAM	3	0	1848	1848	1849			
1.4	256QAM	3	1	1838	1844	1830			
1.4	256QAM	6	0	1830	1835	1839			
1.4	256QAM	6	0	1844	1843	1838			20



Band 30_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.87			25.7
10	QPSK	1	25	23.88			
10	QPSK	1	49	23.85			
10	QPSK	25	0	22.90			24.7
10	QPSK	25	12	22.94			
10	QPSK	25	25	22.96			
10	QPSK	50	0	22.94			24.7
10	16QAM	1	0	23.21			
10	16QAM	1	25	23.25			
10	16QAM	1	49	23.23			23.7
10	16QAM	25	0	21.88			
10	16QAM	25	12	21.97			
10	16QAM	25	25	21.94			23.7
10	16QAM	50	0	21.93			
10	16QAM	1	0	22.90			
10	16QAM	1	25	22.17			22.7
10	16QAM	1	49	22.02			
10	16QAM	25	0	20.92			
10	16QAM	25	12	21.82			22.7
10	16QAM	25	25	20.95			
10	16QAM	50	0	20.98			
10	256QAM	1	0	19.20			20.7
10	256QAM	1	25	19.23			
10	256QAM	1	49	19.13			
10	256QAM	25	0	18.96			20.7
10	256QAM	25	12	19.06			
10	256QAM	25	25	19.03			
10	256QAM	50	0	19.03			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.75	23.79	23.86	25.7
5	QPSK	1	24	23.82	23.86	23.90	
5	QPSK	1	24	23.85	23.87	23.79	
5	QPSK	12	0	22.87	22.89	22.94	24.7
5	QPSK	12	12	22.98	22.94	22.98	
5	QPSK	12	12	22.89	22.83	22.86	
5	QPSK	25	0	22.97	22.94	22.96	24.7
5	16QAM	1	0	23.07	23.10	23.17	
5	16QAM	1	12	23.18	23.17	23.19	
5	16QAM	1	24	23.24	23.18	23.29	23.7
5	16QAM	12	0	21.88	21.83	21.95	
5	16QAM	12	7	22.01	21.98	22.00	
5	16QAM	12	13	22.01	21.95	21.96	23.7
5	16QAM	25	0	21.98	21.94	21.94	
5	16QAM	1	0	22.03	22.08	21.87	
5	16QAM	1	24	22.16	22.14	21.97	22.7
5	16QAM	1	24	22.16	22.09	21.83	
5	16QAM	12	0	20.94	20.96	20.93	
5	16QAM	12	7	21.05	21.02	20.95	22.7
5	16QAM	12	13	21.05	20.96	20.95	
5	16QAM	25	0	21.01	21.00	20.81	
5	256QAM	1	0	19.11	19.19	19.16	20.7
5	256QAM	1	12	19.21	19.19	19.22	
5	256QAM	1	24	19.06	19.05	19.07	
5	256QAM	12	7	18.99	19.08	18.96	20.7
5	256QAM	12	13	19.03	18.93	18.99	
5	256QAM	25	0	19.03	18.96	19.01	



Band 66_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (ms)	
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.83	23.87	23.84	20.5	
20	QPSK	1	49	23.83	23.85	23.72		
20	QPSK	1	99	23.75	23.80	23.82		
20	QPSK	60	0	22.94	22.97	22.94	24.5	
20	QPSK	50	24	22.98	22.99	22.90		
20	QPSK	50	50	22.94	22.95	22.92		
20	HQAM	100	0	22.92	22.93	22.91	24.5	
20	HQAM	1	0	23.28	23.30	23.20		
20	HQAM	1	49	23.18	23.19	23.04		
20	HQAM	50	24	23.09	23.09	23.01	23.5	
20	HQAM	50	0	23.03	23.06	23.07		
20	HQAM	50	50	23.06	23.04	23.01		
20	HQAM	100	0	21.98	21.98	21.90	23.5	
20	HQAM	1	0	22.01	22.01	22.02		
20	HQAM	1	49	22.06	22.07	21.97		
20	HQAM	1	99	22.01	22.05	21.87	22.5	
20	HQAM	50	24	21.81	20.87	20.70		
20	HQAM	50	50	20.95	20.98	20.88		
20	HQAM	100	0	21.01	21.03	20.97	20.5	
20	HQAM	1	0	18.91	18.90	18.96		
20	HQAM	1	49	18.96	18.94	18.80		
20	HQAM	50	24	18.92	18.98	18.90	20.5	
20	HQAM	50	50	18.95	18.98	18.94		
20	HQAM	50	99	18.93	18.99	18.98		
20	HQAM	100	0	18.92	18.90	18.99	Time-up (ms)	
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.93	23.96	23.74	20.5	
15	QPSK	1	49	23.77	23.83	23.82		
15	QPSK	1	74	23.70	23.75	23.54		
15	QPSK	30	0	22.84	22.88	22.79	24.5	
15	QPSK	30	20	22.92	22.98	22.88		
15	QPSK	30	39	22.89	22.92	22.81		
15	QPSK	75	0	22.89	22.88	22.88	24.5	
15	HQAM	1	0	23.21	23.25	23.13		
15	HQAM	1	39	23.17	23.09	23.02		
15	HQAM	1	70	23.00	23.00	22.87	23.5	
15	HQAM	30	0	21.83	21.96	21.78		
15	HQAM	30	20	21.98	21.90	21.85		
15	HQAM	30	39	21.86	21.92	21.78	23.5	
15	HQAM	75	0	21.95	21.85	21.82		
15	HQAM	1	0	21.98	22.14	22.00		
15	HQAM	1	74	21.97	22.00	21.81	23.5	
15	HQAM	1	74	21.97	22.00	21.78		
15	HQAM	30	0	20.87	20.95	20.81		
15	HQAM	30	20	20.97	20.98	20.87	22.5	
15	HQAM	30	39	20.87	20.88	20.78		
15	HQAM	75	0	20.91	20.96	20.81		
15	HQAM	1	0	18.90	18.97	18.88	20.5	
15	HQAM	1	39	18.90	18.94	18.84		
15	HQAM	30	70	18.90	18.98	18.91		
15	HQAM	30	20	18.79	18.89	18.90	20.5	
15	HQAM	30	39	18.81	18.98	18.81		
15	HQAM	75	0	18.89	18.85	18.89		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.93	23.88	23.76	20.5	
10	QPSK	1	25	23.82	23.80	23.85		
10	QPSK	1	49	23.68	23.74	23.84		
10	QPSK	25	0	22.85	22.90	22.79	24.5	
10	QPSK	25	12	22.92	22.90	22.86		
10	QPSK	25	25	22.84	22.86	22.84		
10	HQAM	1	0	23.23	23.25	23.19	24.5	
10	HQAM	1	25	23.13	23.12	22.99		
10	HQAM	1	49	23.08	23.07	22.90		
10	HQAM	25	0	21.87	21.96	21.87	23.5	
10	HQAM	25	12	21.89	21.84	21.83		
10	HQAM	25	25	21.85	21.88	21.79		
10	HQAM	50	0	21.88	21.88	21.80	23.5	
10	HQAM	1	0	22.00	22.08	21.99		
10	HQAM	1	25	22.02	22.03	21.80		
10	HQAM	1	49	22.00	22.05	21.82	22.5	
10	HQAM	25	0	20.84	20.88	20.83		
10	HQAM	25	12	20.97	20.92	20.83		
10	HQAM	25	25	20.91	20.94	20.84	20.5	
10	HQAM	50	0	20.94	20.89	20.81		
10	HQAM	1	0	18.90	18.90	18.98		
10	HQAM	1	25	18.90	18.90	18.98	20.5	
10	HQAM	1	49	18.92	18.93	18.87		
10	HQAM	25	0	18.85	18.86	18.87		
10	HQAM	25	12	18.90	18.89	18.88	20.5	
10	HQAM	25	25	18.89	18.95	18.80		
10	HQAM	50	0	18.88	18.81	18.98		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.92	23.83	23.78	20.5	
5	QPSK	1	12	23.74	23.75	23.66		
5	QPSK	1	24	23.68	23.75	23.58		
5	QPSK	15	0	22.87	22.87	22.78	24.5	
5	QPSK	12	7	22.96	22.92	22.88		
5	QPSK	12	13	22.90	22.89	22.81		
5	QPSK	24	0	22.82	22.83	22.88	24.5	
5	HQAM	1	0	23.24	23.29	23.13		
5	HQAM	1	12	23.16	23.17	23.00		
5	HQAM	1	24	23.09	23.03	22.87	23.5	
5	HQAM	12	0	21.87	21.88	21.84		
5	HQAM	12	13	21.96	21.92	21.85		
5	HQAM	12	13	21.88	21.88	21.83	23.5	
5	HQAM	25	0	21.87	21.81	21.84		
5	HQAM	1	0	21.98	22.07	22.04		
5	HQAM	1	12	22.02	22.03	21.83	23.5	
5	HQAM	11	24	21.91	22.00	21.78		
5	HQAM	12	0	20.98	20.98	20.85		
5	HQAM	12	7	21.00	20.95	20.84	22.5	
5	HQAM	12	13	20.99	20.96	20.82		
5	HQAM	25	0	21.00	20.92	20.81		
5	HQAM	1	0	18.96	18.96	18.96	20.5	
5	HQAM	1	12	18.95	18.97	18.86		
5	HQAM	1	24	18.99	18.93	18.95		
5	HQAM	12	0	18.92	18.88	18.88	20.5	
5	HQAM	12	13	18.92	18.95	18.82		
5	HQAM	25	0	18.87	18.86	18.90		
Channel								
Frequency (MHz)								
3	QPSK	1	0	23.83	23.88	23.75	20.5	
3	QPSK	1	6	23.81	23.83	23.68		
3	QPSK	1	14	23.70	23.71	23.61		
3	QPSK	8	0	22.88	22.96	22.83	24.5	
3	QPSK	8	4	22.94	22.99	22.88		
3	QPSK	8	7	22.94	22.98	22.75		
3	QPSK	16	0	22.86	22.91	22.84	24.5	
3	HQAM	1	0	23.23	23.23	23.19		
3	HQAM	1	8	23.18	23.17	22.90		
3	HQAM	1	14	23.06	23.06	22.90	23.5	
3	HQAM	8	0	21.84	21.95	21.87		
3	HQAM	8	4	21.91	21.88	21.91		
3	HQAM	8	7	21.04	21.08	21.77	23.5	
3	HQAM	16	0	21.96	21.80	21.87		
3	HQAM	1	0	21.97	22.10	21.97		
3	HQAM	1	6	21.98	22.05	21.99	23.5	
3	HQAM	1	14	21.97	21.96	21.80		
3	HQAM	8	1	20.88	20.91	20.80		
3	HQAM	8	4	21.00	20.90	20.85	22.5	
3	HQAM	8	7	20.89	20.94	20.80		
3	HQAM	16	0	20.96	20.98	20.88		
3	HQAM	1	0	18.89	18.89	18.95	20.5	
3	HQAM	1	8	18.90	18.98	18.83		
3	HQAM	8	0	18.77	18.80	18.88		
3	HQAM	8	4	18.84	18.92	18.80	20.5	
3	HQAM	8	7	18.99	18.92	18.78		
3	HQAM	16	0	18.92	18.85	18.93		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	23.78	23.79	23.62	20.5	
1.4	QPSK	1	3	23.81	23.82	23.70		
1.4	QPSK	1	6	23.75	23.77	23.61		
1.4	QPSK	3	0	22.80	22.85	22.87	24.5	
1.4	QPSK	3	1	22.85	22.88	22.80		
1.4	QPSK	3	3	22.81	22.82	22.83		
1.4	QPSK	6	0	22.87	22.87	22.71	24.5	
1.4	HQAM	1	0	23.06	23.12	22.90		
1.4	HQAM	1	3	23.17	23.19	23.01		
1.4	HQAM	1	5	23.11	23.12	22.94	24.5	
1.4	HQAM	3	0	22.87	22.90	22.76		
1.4	HQAM	3	1	22.85	22.89	22.79		
1.4	HQAM	3	3	22.87	22.91	22.76	23.5	
1.4	HQAM	6	0	21.82	21.83	21.77		
1.4	HQAM	1	0	21.83	22.00	21.82		
1.4	HQAM	1	3	21.92	22.13	21.88	23.5	
1.4	HQAM	3	0	21.83	22.04	21.87		
1.4	HQAM	3	1	22.05	22.05	21.91		
1.4	HQAM	3	3	21.92	22.04	21.84	22.5	
1.4	HQAM	6	0	20.75	20.90	20.73		
1.4	HQAM	1	0	18.87	18.90	18.86		
1.4	HQAM	1	3	18.99	19.00	18.79	20.5	
1.4	HQAM	1	5	18.92	18.98	18.98		
1.4	HQAM	3	0	18.84	18.85	18.79		
1.4	HQAM	3	1	18.78	18.90			



Band 71_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)			
Channel										
Frequency (MHz)										
693 693 698										
20	QPSK	1	0	2348	2348	2337	25			
20	QPSK	1	49	2342	2341	2337				
20	QPSK	1	99	2336	2339	2338				
20	QPSK	60	0	2257	2258	2248	24			
20	QPSK	50	24	2254	2249	2248				
20	QPSK	50	50	2258	2251	2250				
20	HQAM	100	0	2251	2252	2248	24			
20	HQAM	1	0	2288	2282	2274				
20	HQAM	1	49	2277	2277	2276				
20	HQAM	50	99	2271	2272	2271	23			
20	HQAM	50	0	2159	2153	2148				
20	HQAM	50	24	2161	2161	2149				
20	HQAM	50	50	2158	2153	2150	23			
20	HQAM	100	0	2159	2148	2148				
20	HQAM	1	0	2173	2167	2163				
20	HQAM	1	49	2158	2150	2158	22			
20	HQAM	1	99	2159	2163	2160				
20	HQAM	50	0	2053	2056	2047				
20	HQAM	50	24	2083	2054	2051	20			
20	HQAM	50	50	2080	2058	2053				
20	HQAM	100	0	2081	2052	2049				
20	SSBQAM	1	0	1858	1844	1837	20			
20	SSBQAM	1	49	1857	1832	1846				
20	SSBQAM	1	99	1846	1845	1849				
20	SSBQAM	50	0	1847	1843	1830	20			
20	SSBQAM	50	24	1841	1836	1829				
20	SSBQAM	50	50	1835	1835	1827				
20	SSBQAM	100	0	1843	1836	1829	20			
Channel										
Frequency (MHz)										
670.5 680.5 690.5										
15	QPSK	1	0	2341	2346	2329	25			
15	QPSK	1	49	2340	2337	2330				
15	QPSK	1	74	2325	2330	2327				
15	QPSK	30	0	2249	2248	2241	24			
15	QPSK	30	20	2250	2245	2240				
15	QPSK	30	39	2247	2241	2244				
15	QPSK	75	0	2247	2245	2242	24			
15	HQAM	1	0	2288	2282	2271				
15	HQAM	1	39	2275	2267	2268				
15	HQAM	1	74	2268	2270	2270	23			
15	HQAM	30	0	2153	2153	2144				
15	HQAM	30	20	2158	2142	2144				
15	HQAM	30	39	2148	2151	2146	23			
15	HQAM	75	0	2153	2141	2144				
15	HQAM	1	0	2168	2157	2162				
15	HQAM	1	49	2158	2151	2155	23			
15	HQAM	1	74	2150	2158	2160				
15	HQAM	30	0	2047	2049	2042				
15	HQAM	30	20	2052	2054	2050	22			
15	HQAM	30	39	2052	2054	2050				
15	HQAM	75	0	2058	2048	2049				
15	SSBQAM	1	0	1853	1840	1835	20			
15	SSBQAM	1	39	1852	1831	1843				
15	SSBQAM	1	74	1846	1835	1847				
15	SSBQAM	30	0	1843	1840	1834	20			
15	SSBQAM	30	20	1838	1835	1823				
15	SSBQAM	30	39	1830	1830	1822				
15	SSBQAM	75	0	1839	1833	1819	20			
Channel										
Frequency (MHz)										
13312 13322 13342										
10	QPSK	1	0	2340	2348	2335	25			
10	QPSK	1	25	2340	2338	2334				
10	QPSK	1	49	2325	2334	2334				
10	QPSK	25	0	2287	2283	2289	24			
10	QPSK	25	12	2283	2248	2247				
10	QPSK	25	25	2281	2248	2249				
10	QPSK	50	0	2248	2245	2240	24			
10	HQAM	1	0	2288	2282	2270				
10	HQAM	1	25	2287	2269	2276				
10	HQAM	1	49	2284	2282	2285	24			
10	HQAM	25	0	2152	2152	2139				
10	HQAM	25	12	2159	2151	2146				
10	HQAM	25	25	2150	2143	2148	23			
10	HQAM	50	0	2154	2148	2140				
10	HQAM	1	0	2172	2163	2155				
10	HQAM	1	25	2184	2127	2153	23			
10	HQAM	1	49	2149	2156	2159				
10	HQAM	25	0	2040	2036	2040				
10	HQAM	25	12	2052	2045	2049	22			
10	HQAM	25	25	2058	2053	2051				
10	HQAM	50	0	2058	2050	2042				
10	SSBQAM	1	0	1848	1836	1832	20			
10	SSBQAM	1	25	1847	1824	1841				
10	SSBQAM	1	49	1845	1843	1844				
10	SSBQAM	25	0	1838	1840	1832	20			
10	SSBQAM	25	12	1834	1828	1823				
10	SSBQAM	25	25	1833	1834	1823				
10	SSBQAM	50	0	1841	1838	1823	20			
Channel										
Frequency (MHz)										
692.5 670.5 690.5										
5	QPSK	1	0	2341	2345	2331	25			
5	QPSK	1	12	2338	2341	2331				
5	QPSK	1	24	2328	2338	2329				
5	QPSK	10	0	2250	2255	2238	24			
5	QPSK	12	7	2245	2243	2239				
5	QPSK	12	13	2250	2244	2248				
5	QPSK	25	0	2243	2244	2242	24			
5	HQAM	1	0	2279	2277	2285				
5	HQAM	1	12	2270	2274	2287				
5	HQAM	1	24	2262	2269	2262	24			
5	HQAM	12	0	2149	2152	2148				
5	HQAM	12	13	2154	2146	2140				
5	HQAM	12	13	2149	2148	2149	23			
5	HQAM	25	0	2153	2139	2146				
5	HQAM	1	0	2173	2160	2158				
5	HQAM	1	12	2182	2188	2185	23			
5	HQAM	1	24	2159	2160	2159				
5	HQAM	12	0	2048	2047	2043				
5	HQAM	12	7	2061	2053	2049	22			
5	HQAM	12	13	2059	2054	2049				
5	HQAM	25	0	2059	2052	2047				
5	SSBQAM	1	0	1855	1838	1849	20			
5	SSBQAM	1	12	1857	1823	1846				
5	SSBQAM	1	24	1842	1841	1848				
5	SSBQAM	12	0	1847	1835	1832	20			
5	SSBQAM	12	13	1840	1832	1827				
5	SSBQAM	12	13	1830	1828	1820				
5	SSBQAM	25	0	1834	1827	1822	20			





Band 2_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit		
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.89	24.03	24.14	25.7		
20	QPSK	1	48	23.89	24.13	24.23			
20	QPSK	1	96	24.08	24.14	24.18			
20	QPSK	66	0	23.00	23.15	23.32	24.7		
20	QPSK	50	24	23.14	23.25	23.28			
20	QPSK	50	50	23.16	23.30	23.35			
20	HQAM	1	0	23.14	23.18	23.32	24.7		
20	HQAM	1	48	23.16	23.49	23.35			
20	HQAM	1	96	23.34	23.42	23.48			
20	HQAM	50	0	22.03	22.09	22.27	23.7		
20	HQAM	50	24	22.13	22.22	22.26			
20	HQAM	50	50	22.24	22.33	22.40			
20	HQAM	100	0	22.14	22.21	22.20	23.7		
20	HQAM	1	48	22.48	22.56	22.56			
20	HQAM	1	48	22.07	22.33	21.57			
20	HQAM	1	96	22.27	22.43	21.88	22.7		
20	HQAM	50	0	21.18	21.08	20.75			
20	HQAM	50	24	21.18	21.28	20.74			
20	HQAM	50	50	21.16	21.30	20.98	20.7		
20	HQAM	100	0	21.14	21.22	20.70			
20	HQAM	1	0	19.83	19.88	19.70			
20	HQAM	1	48	19.82	19.72	19.74	20.7		
20	HQAM	1	96	19.87	19.78	19.81			
20	HQAM	50	0	19.86	19.83	19.80			
20	HQAM	50	24	19.87	19.86	19.88	20.7		
20	HQAM	50	50	19.70	19.77	19.77			
20	HQAM	100	0	19.62	19.62	19.71			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.84	23.97	24.16	25.7		
15	QPSK	1	48	23.83	24.04	24.13			
15	QPSK	1	74	24.08	24.12	24.11			
15	QPSK	36	0	23.00	23.16	23.15	24.7		
15	QPSK	36	24	23.04	23.25	23.28			
15	QPSK	36	39	23.15	23.30	23.34			
15	QPSK	75	0	23.13	23.16	23.23	24.7		
15	HQAM	1	0	23.02	23.08	23.05			
15	HQAM	1	37	23.08	23.41	23.25			
15	HQAM	1	74	23.10	23.22	23.44	23.7		
15	HQAM	36	0	21.99	22.03	22.27			
15	HQAM	36	24	22.08	22.16	22.24			
15	HQAM	36	39	22.04	22.05	22.30	23.7		
15	HQAM	75	0	22.10	22.15	22.14			
15	HQAM	1	0	22.48	22.09	22.28			
15	HQAM	1	48	22.00	22.05	21.70	22.7		
15	HQAM	1	74	22.20	22.35	21.78			
15	HQAM	36	0	21.10	21.15	20.70			
15	HQAM	36	24	21.17	21.17	20.71	20.7		
15	HQAM	36	39	21.09	21.28	20.83			
15	HQAM	75	0	21.13	21.15	20.70			
15	HQAM	1	0	19.53	19.49	19.63	20.7		
15	HQAM	1	37	19.52	19.83	19.84			
15	HQAM	1	74	19.53	19.53	19.54			
15	HQAM	36	24	19.51	19.50	19.50	20.7		
15	HQAM	36	39	19.81	19.88	19.88			
15	HQAM	36	74	19.86	19.71	19.71			
15	HQAM	75	0	19.54	19.55	19.71			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.89	23.98	24.11	25.7		
10	QPSK	1	25	23.88	24.05	24.08			
10	QPSK	1	49	24.08	24.05	24.12			
10	QPSK	25	0	22.82	23.13	23.12	24.7		
10	QPSK	25	12	23.08	23.18	23.19			
10	QPSK	25	24	23.01	23.21	23.28			
10	QPSK	66	0	23.12	23.06	23.31	24.7		
10	HQAM	1	0	23.18	23.23	23.41			
10	HQAM	1	24	23.15	23.47	23.32			
10	HQAM	1	48	23.33	23.37	23.40	23.7		
10	HQAM	25	0	21.88	22.07	22.31			
10	HQAM	25	12	22.09	22.19	22.23			
10	HQAM	25	24	22.20	22.28	22.34	23.7		
10	HQAM	50	0	22.08	22.13	22.10			
10	HQAM	1	0	22.46	22.12	22.33			
10	HQAM	1	25	22.07	22.30	21.70	22.7		
10	HQAM	25	0	21.87	21.11	20.70			
10	HQAM	25	12	21.10	21.19	20.71			
10	HQAM	25	24	21.15	21.21	20.86	20.7		
10	HQAM	50	0	21.08	21.20	20.70			
10	HQAM	1	25	19.55	19.69	19.70			
10	HQAM	1	48	19.87	19.69	19.88	20.7		
10	HQAM	25	0	19.78	19.67	19.82			
10	HQAM	25	12	19.52	19.54	19.83			
10	HQAM	25	24	19.62	19.76	19.77	20.7		
10	HQAM	50	0	19.67	19.67	19.68			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.83	23.87	24.12	25.7		
5	QPSK	1	12	23.86	24.00	24.16			
5	QPSK	1	24	24.04	24.07	24.08			
5	QPSK	15	0	22.83	23.12	23.13	24.7		
5	QPSK	12	7	23.11	23.19	23.19			
5	QPSK	12	13	23.13	23.23	23.27			
5	QPSK	24	0	23.11	23.13	23.24	24.7		
5	HQAM	1	0	23.18	23.27	23.41			
5	HQAM	1	12	23.16	23.46	23.27			
5	HQAM	1	24	23.28	23.40	23.44	23.7		
5	HQAM	15	0	21.98	22.00	22.25			
5	HQAM	15	7	22.05	22.14	22.36			
5	HQAM	12	13	22.16	22.33	22.33	23.7		
5	HQAM	25	0	22.05	22.21	22.13			
5	HQAM	1	0	22.46	22.19	22.29			
5	HQAM	1	12	22.83	22.82	21.70	23.7		
5	HQAM	11	24	22.24	22.41	21.81			
5	HQAM	12	0	21.04	21.18	20.70			
5	HQAM	12	7	21.10	21.25	20.70	22.7		
5	HQAM	12	13	21.11	21.22	20.84			
5	HQAM	12	24	21.09	21.21	20.70			
5	HQAM	1	0	19.87	19.88	19.80	20.7		
5	HQAM	1	12	19.89	19.84	19.72			
5	HQAM	1	24	19.82	19.72	19.88			
5	HQAM	12	0	19.80	19.44	19.58	20.7		
5	HQAM	15	0	19.67	19.59	19.59			
5	HQAM	12	13	19.81	19.72	19.71			
5	HQAM	25	0	19.58	19.58	19.68			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.88	23.94	24.12	25.7		
3	QPSK	1	6	23.81	24.00	24.10			
3	QPSK	1	14	24.03	24.06	24.05			
3	QPSK	8	0	22.85	23.15	23.13	24.7		
3	QPSK	8	4	23.07	23.18	23.25			
3	QPSK	8	7	23.09	23.24	23.29			
3	QPSK	15	0	23.12	23.14	23.23	24.7		
3	HQAM	1	0	23.19	23.27	23.46			
3	HQAM	1	8	23.08	23.46	23.29			
3	HQAM	1	14	23.26	23.36	23.42	23.7		
3	HQAM	8	0	22.03	21.99	22.27			
3	HQAM	8	4	22.03	22.18	22.22			
3	HQAM	8	7	22.18	22.28	22.38	23.7		
3	HQAM	15	0	22.14	22.12	22.18			
3	HQAM	1	0	22.38	22.11	22.28			
3	HQAM	1	6	21.09	22.30	21.70	23.7		
3	HQAM	1	14	22.20	22.38	21.81			
3	HQAM	8	0	21.08	21.18	20.70			
3	HQAM	23	4	21.15	21.21	20.70	22.7		
3	HQAM	8	7	21.08	21.28	20.88			
3	HQAM	15	0	21.06	21.23	20.70			
3	HQAM	1	0	19.87	19.58	19.87	20.7		
3	HQAM	1	8	19.82	19.83	19.72			
3	HQAM	1	14	19.84	19.77	19.86			
3	HQAM	8	0	19.81	19.44	19.57	20.7		
3	HQAM	8	4	19.66	19.59	19.68			
3	HQAM	8	7	19.60	19.73	19.78			
3	HQAM	15	0	19.60	19.62	19.69			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.88	23.99	24.18	25.7		
1.4	QPSK	1	3	23.90	24.15	24.16			
1.4	QPSK	1	6	23.84	24.08	24.18			
1.4	QPSK	3	0	23.89	24.05	24.18	24.7		
1.4	QPSK	3	1	23.84	24.16	24.23			
1.4	QPSK	3	1	23.89					



Band 4_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power High Ch. Freq	Power Low Ch. Freq	Power High Ch. Freq	Power Low Ch. Freq	Power High Ch. Freq	Time-up (sec)
Channel										
Frequency (MHz)										
20	QPSK	1	0	2421	2421	2422	2422	2423	2423	25.7
20	QPSK	1	49	2424	2424	2422	2422	2423	2423	
20	QPSK	1	99	2427	2427	2427	2427	2428	2428	24.7
20	QPSK	50	24	2344	2337	2332	2332	2333	2333	
20	QPSK	50	50	2338	2340	2340	2340	2341	2341	24.7
20	QPSK	100	0	2338	2341	2331	2331	2332	2332	
20	HQAM	1	0	2355	2358	2358	2358	2359	2359	23.7
20	HQAM	1	49	2352	2350	2351	2351	2352	2352	
20	HQAM	50	0	2364	2363	2363	2363	2364	2364	23.7
20	HQAM	50	0	2237	2241	2237	2237	2238	2238	
20	HQAM	50	50	2245	2238	2238	2238	2239	2239	23.7
20	HQAM	50	50	2241	2242	2242	2242	2243	2243	
20	HQAM	100	0	2237	2237	2237	2237	2238	2238	23.7
20	HQAM	100	0	2121	2121	2121	2121	2122	2122	
20	HQAM	1	49	2240	2239	2239	2239	2240	2240	22.7
20	HQAM	1	99	2245	2221	2221	2221	2222	2222	
20	HQAM	50	0	2112	2143	2143	2143	2144	2144	20.7
20	HQAM	50	24	2144	2122	2122	2122	2123	2123	
20	HQAM	50	50	2141	2105	2105	2105	2106	2106	20.7
20	HQAM	100	0	2137	2128	2128	2128	2129	2129	
20	SSBQAM	1	0	1970	1986	1986	1986	1987	1987	20.7
20	SSBQAM	1	49	1986	1972	1972	1972	1973	1973	
20	SSBQAM	50	0	1989	1984	1984	1984	1985	1985	20.7
20	SSBQAM	50	50	1985	1979	1979	1979	1980	1980	
20	SSBQAM	50	0	1981	1981	1981	1981	1982	1982	20.7
20	SSBQAM	50	50	1981	1981	1981	1981	1982	1982	
20	SSBQAM	100	0	1979	1972	1987	1987	1988	1988	Time-up (sec)
Channel										
Frequency (MHz)										
15	QPSK	1	0	2415	2431	2431	2431	2432	2432	25.7
15	QPSK	1	49	2415	2411	2411	2411	2412	2412	
15	QPSK	1	74	2421	2426	2426	2426	2427	2427	24.7
15	QPSK	30	0	2330	2335	2335	2335	2336	2336	
15	QPSK	30	20	2343	2330	2330	2330	2331	2331	24.7
15	QPSK	30	39	2337	2335	2335	2335	2336	2336	
15	QPSK	75	0	2339	2339	2339	2339	2340	2340	24.7
15	HQAM	1	0	2352	2353	2348	2348	2349	2349	
15	HQAM	1	74	2358	2344	2344	2344	2345	2345	23.7
15	HQAM	30	0	2237	2238	2235	2235	2236	2236	
15	HQAM	30	20	2238	2230	2230	2230	2231	2231	23.7
15	HQAM	30	39	2234	2236	2236	2236	2237	2237	
15	HQAM	75	0	2233	2231	2231	2231	2232	2232	23.7
15	HQAM	1	0	2172	2242	2188	2188	2189	2189	
15	HQAM	1	74	2242	2233	2233	2233	2234	2234	22.7
15	HQAM	1	74	2242	2212	2212	2212	2213	2213	
15	HQAM	30	0	2111	2142	2100	2100	2101	2101	20.7
15	HQAM	30	20	2144	2119	2131	2131	2132	2132	
15	HQAM	30	39	2140	2036	2130	2130	2131	2131	20.7
15	HQAM	75	0	2151	2117	2126	2126	2127	2127	
15	SSBQAM	1	0	1970	1983	1983	1983	1984	1984	20.7
15	SSBQAM	1	37	1986	1985	1985	1985	1986	1986	
15	SSBQAM	30	0	1983	1983	1983	1983	1984	1984	20.7
15	SSBQAM	30	20	1987	1972	1981	1981	1982	1982	
15	SSBQAM	30	39	1977	1975	1980	1980	1981	1981	Time-up (sec)
15	SSBQAM	75	0	1979	1959	1981	1981	1982	1982	
Channel										
Frequency (MHz)										
10	QPSK	1	0	2420	2426	2424	2424	2425	2425	25.7
10	QPSK	1	25	2418	2421	2413	2413	2414	2414	
10	QPSK	1	49	2422	2418	2418	2418	2419	2419	24.7
10	QPSK	25	0	2328	2332	2330	2330	2331	2331	
10	QPSK	25	12	2342	2332	2329	2329	2330	2330	24.7
10	QPSK	25	26	2333	2332	2334	2334	2335	2335	
10	QPSK	50	0	2333	2332	2324	2324	2325	2325	24.7
10	HQAM	1	0	2350	2350	2352	2352	2353	2353	
10	HQAM	1	25	2348	2359	2356	2356	2357	2357	23.7
10	HQAM	1	49	2350	2352	2353	2353	2354	2354	
10	HQAM	25	0	2234	2234	2229	2229	2230	2230	23.7
10	HQAM	25	12	2240	2238	2220	2220	2221	2221	
10	HQAM	25	26	2238	2234	2229	2229	2230	2230	22.7
10	HQAM	50	0	2231	2237	2232	2232	2233	2233	
10	HQAM	1	0	2171	2251	2191	2191	2192	2192	20.7
10	HQAM	1	25	2245	2230	2230	2230	2231	2231	
10	HQAM	1	49	2243	2214	2245	2245	2246	2246	22.7
10	HQAM	25	0	2184	2138	2100	2100	2101	2101	
10	HQAM	25	12	2141	2118	2127	2127	2128	2128	20.7
10	HQAM	25	26	2152	2105	2136	2136	2137	2137	
10	HQAM	50	0	2133	2118	2129	2129	2130	2130	20.7
10	SSBQAM	1	0	1970	1983	1983	1983	1984	1984	
10	SSBQAM	1	25	1952	1971	1981	1981	1982	1982	20.7
10	SSBQAM	1	49	1979	1990	1987	1987	1988	1988	
10	SSBQAM	25	0	1985	1984	1984	1984	1985	1985	20.7
10	SSBQAM	25	12	1975	1972	1953	1953	1954	1954	
10	SSBQAM	25	26	1974	1975	1985	1985	1986	1986	Time-up (sec)
10	SSBQAM	50	0	1973	1986	1984	1984	1985	1985	
Channel										
Frequency (MHz)										
5	QPSK	1	0	2413	2422	2431	2431	2432	2432	25.7
5	QPSK	1	12	2421	2414	2416	2416	2417	2417	
5	QPSK	1	24	2423	2420	2419	2419	2420	2420	24.7
5	QPSK	12	0	2322	2338	2325	2325	2326	2326	
5	QPSK	12	7	2342	2327	2322	2322	2323	2323	24.7
5	QPSK	12	13	2328	2333	2334	2334	2335	2335	
5	QPSK	24	0	2329	2335	2323	2323	2324	2324	24.7
5	HQAM	1	0	2347	2348	2350	2350	2351	2351	
5	HQAM	1	12	2345	2352	2353	2353	2354	2354	23.7
5	HQAM	1	24	2356	2345	2346	2346	2347	2347	
5	HQAM	12	0	2234	2234	2228	2228	2229	2229	23.7
5	HQAM	12	13	2234	2235	2232	2232	2233	2233	
5	HQAM	25	0	2236	2234	2221	2221	2222	2222	23.7
5	HQAM	1	0	2170	2244	2186	2186	2187	2187	
5	HQAM	1	12	2241	2232	2233	2233	2234	2234	22.7
5	HQAM	11	24	2245	2213	2250	2250	2251	2251	
5	HQAM	12	0	2112	2134	2106	2106	2107	2107	20.7
5	HQAM	12	7	2137	2116	2130	2130	2131	2131	
5	HQAM	12	13	2111	2100	2101	2101	2102	2102	20.7
5	HQAM	25	0	2127	2122	2122	2122	2123	2123	
5	SSBQAM	1	0	1967	1986	1977	1977	1978	1978	20.7
5	SSBQAM	1	12	1986	1972	1984	1984	1985	1985	
5	SSBQAM	1	24	1988	1950	1936	1936	1937	1937	20.7
5	SSBQAM	12	0	1958	1950	1971	1971	1972	1972	
5	SSBQAM	12	13	1969	1973	1984	1984	1985	1985	Time-up (sec)
5	SSBQAM	25	0	1959	1954	1986	1986	1987	1987	
Channel										
Frequency (MHz)										
3	QPSK	1	0	2420	2422	2424	2424	2425	2425	25.7
3	QPSK	1	6	2422	2422	2412	2412	2413	2413	
3	QPSK	1	14	2420	2427	2419	2419	2420	2420	24.7
3	QPSK	6	0	2322	2338	2329	2329	2330	2330	
3	QPSK	6	4	2338	2330	2325	2325	2326	2326	24.7
3	QPSK	6	7	2353	2332	2334	2334	2335	2335	



Band 5_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dB)	Turn-down (dB)		
Channel				2040	2055	2070				
Frequency (MHz)				830	835	844				
10	QPSK	1	0	2448	2454	2455				
10	QPSK	1	25	2448	2452	2450			25.7	
10	QPSK	1	49	2458	2448	2443				
10	QPSK	25	0	2358	2344	2342				
10	QPSK	25	12	2359	2355	2352			24.7	
10	QPSK	25	25	2353	2357	2352				
10	QPSK	50	0	2327	2344	2330				
10	QPSK	1	0	2388	2389	2384				
10	HQAM	1	25	2330	2333	2331			24.7	
10	HQAM	1	49	2355	2350	2351				
10	HQAM	25	0	2257	2252	2259				
10	HQAM	25	12	2258	2254	2257			23.7	
10	HQAM	25	25	2254	2253	2256				
10	HQAM	50	0	2258	2252	2258				
10	HQAM	1	0	2254	2278	2270				
10	HQAM	1	25	2252	2257	2252			23.7	
10	HQAM	1	49	2282	2281	2278				
10	HQAM	25	0	2162	2168	2164				
10	HQAM	25	12	2171	2169	2167			22.7	
10	HQAM	25	25	2186	2170	2157				
10	HQAM	50	0	2170	2168	2162				
10	SSBQAM	1	0	1940	1933	1932				
10	SSBQAM	1	25	1944	1945	1944			20.7	
10	SSBQAM	49	0	1932	1948	1937				
10	SSBQAM	25	0	1941	1941	1943				
10	SSBQAM	25	12	1944	1938	1938			20.7	
10	SSBQAM	25	25	1934	1938	1938				
10	SSBQAM	50	0	1944	1937	1938				
Channel				825.5	830.5	835.5			Turn-up (dB)	
Frequency (MHz)				826.5	836.5	841.5			Turn-down (dB)	
5	QPSK	1	0	2454	2452	2448				
5	QPSK	1	24	2455	2453	2448			25.7	
5	QPSK	1	24	2446	2448	2448				
5	QPSK	12	0	2359	2370	2381				
5	QPSK	12	6	2368	2367	2355			24.7	
5	QPSK	12	12	2380	2385	2384				
5	QPSK	25	0	2353	2359	2355				
5	HQAM	1	0	2359	2355	2359				
5	HQAM	1	12	2359	2355	2383			24.7	
5	HQAM	1	24	2359	2351	2378				
5	HQAM	12	0	2284	2272	2281				
5	HQAM	12	7	2288	2259	2258			23.7	
5	HQAM	12	13	2281	2287	2287				
5	HQAM	25	0	2259	2271	2258				
5	HQAM	1	0	2281	2290	2282				
5	HQAM	1	0	2283	2286	2287			23.7	
5	HQAM	1	24	2282	2286	2282				
5	HQAM	12	0	2159	2175	2187				
5	HQAM	12	7	2173	2175	2141			22.7	
5	HQAM	12	13	2188	2170	2122				
5	HQAM	25	0	2159	2174	2145				
5	SSBQAM	1	0	1933	1948	1944				
5	SSBQAM	1	12	1940	1941	1941			20.7	
5	SSBQAM	1	24	1938	1945	1934				
5	SSBQAM	12	0	1935	1932	1943				
5	SSBQAM	12	7	1937	1928	1930			20.7	
5	SSBQAM	12	13	1933	1938	1938				
5	SSBQAM	25	0	1934	1937	1931				
Channel				20415	20525	20635			Turn-up (dB)	
Frequency (MHz)				20417	20515	20615			Turn-down (dB)	
3	QPSK	1	0	2380	2387	2385				
3	QPSK	1	8	2387	2394	2383			25.7	
3	QPSK	8	0	2378	2383	2371				
3	QPSK	8	0	2289	2293	2287				
3	QPSK	8	4	2255	2251	2287			24.7	
3	QPSK	8	0	2288	2293	2283				
3	QPSK	16	0	2250	2257	2286				
3	HQAM	1	0	2311	2317	2311			24.7	
3	HQAM	1	8	2315	2330	2313				
3	HQAM	1	14	2311	2318	2303				
3	HQAM	8	0	2156	2200	2184				
3	HQAM	8	4	2158	2206	2196			23.7	
3	HQAM	8	7	2156	2198	2187				
3	HQAM	16	0	2106	2201	2180				
3	HQAM	1	0	2303	2215	2190			23.7	
3	HQAM	1	8	2313	2221	2171				
3	HQAM	1	14	2302	2259	2170				
3	HQAM	8	0	2190	2180	2078				
3	HQAM	8	4	2194	2103	2178			22.7	
3	HQAM	8	7	2189	2098	2171				
3	HQAM	16	0	2192	2098	2172				
3	SSBQAM	1	0	1945	1945	1946				
3	SSBQAM	1	14	1938	1947	1929			20.7	
3	SSBQAM	8	0	1938	1941	1930				
3	SSBQAM	8	4	1935	1919	1927			20.7	
3	SSBQAM	8	7	1933	1933	1920				
3	SSBQAM	16	0	1938	1938	1931				
Channel				20607	20625	20643			Turn-up (dB)	
Frequency (MHz)				20617	20615	20615			Turn-down (dB)	
1.4	QPSK	1	0	2371	2379	2370				
1.4	QPSK	1	3	2380	2386	2376			25.7	
1.4	QPSK	1	5	2370	2380	2371				
1.4	QPSK	3	0	2389	2380	2375				
1.4	QPSK	3	1	2383	2380	2380				
1.4	QPSK	3	3	2378	2381	2372			24.7	
1.4	QPSK	6	0	2283	2291	2277				
1.4	HQAM	1	0	2305	2311	2307				
1.4	HQAM	1	5	2314	2321	2312			24.7	
1.4	HQAM	1	5	2307	2312	2300				
1.4	HQAM	3	0	2289	2289	2282				
1.4	HQAM	3	1	2293	2290	2286				
1.4	HQAM	3	1	2283	2291	2278			23.7	
1.4	HQAM	6	0	2191	2199	2186				
1.4	HQAM	1	0	2108	2204	2172				
1.4	HQAM	1	3	2210	2215	2178			23.7	
1.4	HQAM	1	6	2200	2204	2172				
1.4	HQAM	3	0	2199	2197	2173				
1.4	HQAM	3	1	2194	2200	2173				
1.4	HQAM	3	1	2189	2183	2173			22.7	
1.4	HQAM	6	0	2078	2084	2071				
1.4	SSBQAM	1	0	1940	1948	1947				
1.4	SSBQAM	1	3	1937	1941	1941			20.7	
1.4	SSBQAM	1	5	1947	1947	1927				
1.4	SSBQAM	3	0	1931	1939	1938				
1.4	SSBQAM	3	0	1944	1938	1938				
1.4	SSBQAM	3	1	1927	1938	1923			20.7	
1.4	SSBQAM	6	0	1938	1938	1930				



Band 7_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up time (min)			
Channel				2560	2608	2656				
Frequency (MHz)				2560	2608	2656				
20	QPSK	1	0	2460	2484	2484	25.7			
20	QPSK	1	49	2467	2475	2470				
20	QPSK	1	99	2471	2479	2473				
20	QPSK	60	0	2378	2378	2378	24.7			
20	QPSK	50	24	2388	2384	2380				
20	QPSK	50	50	2389	2394	2389				
20	HQAM	100	0	2388	2384	2378	24.7			
20	HQAM	1	0	2388	2401	2388				
20	HQAM	1	49	2405	2407	2406				
20	HQAM	1	99	2405	2415	2403	23.7			
20	HQAM	50	0	2277	2281	2277				
20	HQAM	50	24	2286	2286	2283				
20	HQAM	50	50	2293	2298	2292	23.7			
20	HQAM	100	0	2288	2283	2278				
20	HQAM	1	0	2281	2285	2281				
20	HQAM	1	49	2293	2295	2277	22.7			
20	HQAM	1	99	2300	2306	2288				
20	HQAM	50	0	2188	2184	2178				
20	HQAM	50	24	2193	2189	2177	22.7			
20	HQAM	50	50	2193	2196	2187				
20	HQAM	100	0	2192	2184	2182				
20	256QAM	1	0	2022	2038	1988	20.7			
20	256QAM	1	49	2033	2038	2037				
20	256QAM	1	99	2034	2038	2011				
20	256QAM	50	0	2003	2001	1994	20.7			
20	256QAM	50	24	2012	2007	1995				
20	256QAM	50	50	2012	2000	2003				
20	256QAM	100	0	2013	1999	1993	20.7			
Channel				2075	2100	2135				
Frequency (MHz)				2075	2035	2025				
15	QPSK	1	0	2454	2459	2458	25.7			
15	QPSK	1	49	2458	2472	2484				
15	QPSK	1	74	2463	2470	2463				
15	QPSK	30	0	2372	2376	2385	24.7			
15	QPSK	30	20	2378	2384	2371				
15	QPSK	30	39	2384	2385	2385				
15	QPSK	75	0	2378	2379	2374	24.7			
15	HQAM	1	0	2395	2398	2392				
15	HQAM	1	39	2400	2405	2398				
15	HQAM	1	74	2398	2407	2393	23.7			
15	HQAM	30	0	2279	2279	2274				
15	HQAM	30	20	2283	2279	2282				
15	HQAM	30	39	2286	2299	2282	23.7			
15	HQAM	75	0	2278	2278	2272				
15	HQAM	1	0	2277	2284	2285				
15	HQAM	1	74	2285	2286	2288	22.7			
15	HQAM	1	74	2285	2304	2289				
15	HQAM	30	0	2180	2183	2175				
15	HQAM	30	20	2190	2188	2177	22.7			
15	HQAM	30	39	2190	2191	2185				
15	HQAM	75	0	2184	2179	2176				
15	256QAM	1	0	2020	2023	1988	20.7			
15	256QAM	1	39	2030	2035	2035				
15	256QAM	30	0	1995	1995	1988				
15	256QAM	30	20	2007	1999	1985	20.7			
15	256QAM	30	39	2007	1996	2003				
15	256QAM	75	0	2008	1994	1995				
Channel				2090	2100	2160				
Frequency (MHz)				2090	2065	2065				
10	QPSK	1	0	2458	2464	2457	25.7			
10	QPSK	1	25	2458	2470	2462				
10	QPSK	1	49	2462	2473	2471				
10	QPSK	25	0	2373	2380	2375	24.7			
10	QPSK	25	12	2381	2374	2380				
10	QPSK	25	25	2387	2388	2380				
10	QPSK	50	0	2376	2379	2375	24.7			
10	HQAM	1	0	2394	2401	2394				
10	HQAM	1	25	2398	2404	2399				
10	HQAM	1	49	2405	2407	2395	23.7			
10	HQAM	25	0	2276	2280	2275				
10	HQAM	25	12	2287	2276	2282				
10	HQAM	25	25	2285	2296	2287	23.7			
10	HQAM	50	0	2284	2280	2280				
10	HQAM	1	0	2274	2277	2284				
10	HQAM	1	25	2283	2295	2274	22.7			
10	HQAM	1	49	2295	2299	2292				
10	HQAM	25	0	2178	2174	2178				
10	HQAM	25	12	2185	2186	2170	22.7			
10	HQAM	25	25	2193	2189	2186				
10	HQAM	50	0	2184	2178	2172				
10	256QAM	1	0	2017	2008	1997	20.7			
10	256QAM	1	25	2023	2007	2001				
10	256QAM	1	49	2014	2010	2004				
10	256QAM	25	0	1993	2003	1994	20.7			
10	256QAM	25	12	2008	2000	1995				
10	256QAM	25	25	2010	1990	1997				
10	256QAM	50	0	2003	1999	1992	20.7			
Channel				2075	2100	2165				
Frequency (MHz)				2075	2035	2025				
5	QPSK	1	0	2454	2452	2451	25.7			
5	QPSK	1	12	2459	2465	2467				
5	QPSK	1	24	2468	2472	2469				
5	QPSK	15	0	2370	2370	2371	24.7			
5	QPSK	12	7	2381	2374	2370				
5	QPSK	12	15	2383	2383	2380				
5	QPSK	25	0	2378	2384	2370	24.7			
5	HQAM	1	0	2394	2398	2397				
5	HQAM	1	12	2397	2405	2405				
5	HQAM	1	24	2400	2411	2403	23.7			
5	HQAM	12	0	2288	2271	2271				
5	HQAM	12	12	2281	2286	2281				
5	HQAM	12	12	2289	2293	2284	23.7			
5	HQAM	25	0	2286	2277	2273				
5	HQAM	1	0	2278	2277	2283				
5	HQAM	1	12	2284	2289	2273	22.7			
5	HQAM	11	24	2297	2305	2288				
5	HQAM	12	0	2178	2182	2174				
5	HQAM	12	7	2187	2186	2171	22.7			
5	HQAM	12	12	2184	2188	2187				
5	HQAM	25	0	2192	2175	2176				
5	256QAM	1	0	2016	2002	1993	20.7			
5	256QAM	1	12	2025	2000	2005				
5	256QAM	1	24	2018	2011	2003				
5	256QAM	12	0	2002	1998	1991	20.7			
5	256QAM	12	12	2007	2007	1988				
5	256QAM	12	12	2009	1998	1999				
5	256QAM	22	0	2006	1992	1983	20.7			



Band 12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2464	2463	2469	25.7
10	QPSK	1	26	2459	2460	2462	
10	QPSK	1	49	2467	2463	2460	24.7
10	QPSK	25	0	2372	2374	2371	
10	QPSK	25	12	2378	2373	2372	24.7
10	QPSK	25	25	2377	2379	2380	
10	QPSK	50	0	2378	2371	2373	24.7
10	16QAM	1	0	2386	2385	2387	
10	16QAM	1	25	2387	2389	2401	23.7
10	16QAM	49	0	2408	2401	2404	
10	16QAM	25	0	2271	2273	2274	23.7
10	16QAM	25	12	2276	2273	2275	
10	16QAM	25	25	2272	2280	2277	23.7
10	16QAM	50	0	2275	2272	2274	
10	16QAM	1	0	2281	2280	2283	23.7
10	16QAM	1	25	2288	2282	2286	
10	16QAM	1	49	2286	2291	2294	22.7
10	16QAM	25	0	2178	2174	2176	
10	16QAM	25	12	2184	2177	2178	20.7
10	16QAM	25	25	2179	2181	2180	
10	16QAM	50	0	2182	2177	2177	20.7
10	256QAM	1	0	1942	1954	1955	
10	256QAM	1	25	1956	1957	1959	20.7
10	256QAM	49	0	1952	1948	1944	
10	256QAM	25	0	1952	1954	1955	20.7
10	256QAM	25	12	1946	1948	1945	
10	256QAM	25	25	1942	1947	1955	20.7
10	256QAM	50	0	1943	1951	1951	
Channel							
Frequency (MHz)							
5	QPSK	1	0	2465	2466	2480	25.7
5	QPSK	1	24	2465	2460	2460	
5	QPSK	1	24	2484	2465	2464	24.7
5	QPSK	12	0	2375	2373	2373	
5	QPSK	12	12	2378	2380	2370	24.7
5	QPSK	12	12	2370	2374	2372	
5	QPSK	25	0	2373	2371	2371	24.7
5	16QAM	1	0	2398	2399	2397	
5	16QAM	1	12	2401	2401	2399	23.7
5	16QAM	1	24	2402	2401	2397	
5	16QAM	12	0	2283	2278	2278	23.7
5	16QAM	12	7	2278	2280	2274	
5	16QAM	12	13	2275	2275	2275	23.7
5	16QAM	25	0	2276	2271	2270	
5	16QAM	1	0	2298	2295	2288	23.7
5	16QAM	1	24	2292	2293	2294	
5	16QAM	1	24	2296	2298	2292	22.7
5	16QAM	12	0	2186	2182	2182	
5	16QAM	12	7	2183	2183	2178	20.7
5	16QAM	12	13	2178	2180	2177	
5	16QAM	25	0	2176	2174	2174	20.7
5	256QAM	1	0	1948	1948	1948	
5	256QAM	1	12	1949	1949	1952	20.7
5	256QAM	1	24	1942	1942	1942	
5	256QAM	12	7	1951	1948	1942	20.7
5	256QAM	12	13	1948	1937	1944	
5	256QAM	25	0	1953	1949	1948	20.7
5	256QAM	50	0	1944	1944	1944	
Channel							
Frequency (MHz)							
3	QPSK	1	0	2392	2388	2386	25.7
3	QPSK	1	8	2392	2395	2393	
3	QPSK	8	0	2385	2390	2384	24.7
3	QPSK	8	4	2298	2297	2294	
3	QPSK	8	4	2298	2300	2297	24.7
3	QPSK	16	0	2294	2297	2292	
3	QPSK	16	0	2296	2292	2292	24.7
3	16QAM	1	0	2308	2319	2322	
3	16QAM	1	8	2311	2311	2329	23.7
3	16QAM	1	14	2318	2322	2319	
3	16QAM	8	4	2298	2301	2300	23.7
3	16QAM	8	4	2299	2298	2294	
3	16QAM	8	7	2290	2298	2198	23.7
3	16QAM	16	0	2291	2295	2304	
3	16QAM	1	0	2221	2214	2214	22.7
3	16QAM	1	8	2224	2223	2220	
3	16QAM	1	14	2215	2216	2212	22.7
3	16QAM	8	0	2183	2183	2086	
3	16QAM	8	4	2198	2197	2194	22.7
3	16QAM	8	7	2099	2102	2099	
3	16QAM	16	0	2100	2095	2093	20.7
3	256QAM	1	0	1942	1942	1942	
3	256QAM	1	14	1948	1947	1948	20.7
3	256QAM	8	0	1948	1944	1942	
3	256QAM	8	4	1953	1948	1939	20.7
3	256QAM	8	7	1945	1937	1953	
3	256QAM	16	0	1941	1944	1942	20.7
3	256QAM	32	0	1937	1937	1937	
Channel							
Frequency (MHz)							
1.4	QPSK	1	0	2373	2374	2373	25.7
1.4	QPSK	1	3	2378	2380	2380	
1.4	QPSK	1	5	2372	2373	2371	24.7
1.4	QPSK	3	1	2384	2378	2379	
1.4	QPSK	3	3	2374	2378	2374	24.7
1.4	QPSK	6	0	2283	2284	2281	
1.4	16QAM	1	0	2308	2307	2309	23.7
1.4	16QAM	1	5	2312	2314	2310	
1.4	16QAM	1	5	2308	2305	2303	23.7
1.4	16QAM	3	0	2289	2284	2286	
1.4	16QAM	1	0	2294	2286	2280	23.7
1.4	16QAM	3	1	2284	2283	2282	
1.4	16QAM	6	0	2188	2190	2186	23.7
1.4	16QAM	1	0	2201	2198	2199	
1.4	16QAM	1	3	2286	2289	2283	23.7
1.4	16QAM	1	6	2283	2282	2197	
1.4	16QAM	3	0	2198	2194	2198	22.7
1.4	16QAM	3	1	2202	2197	2200	
1.4	16QAM	3	1	2194	2195	2195	22.7
1.4	16QAM	6	0	2089	2089	2081	
1.4	256QAM	1	0	1938	1948	1942	20.7
1.4	256QAM	1	3	1947	1954	1956	
1.4	256QAM	1	5	1958	1957	1958	20.7
1.4	256QAM	3	0	1942	1945	1951	
1.4	256QAM	3	1	1958	1941	1938	20.7
1.4	256QAM	3	1	1939	1944	1952	
1.4	256QAM	6	0	1947	1948	1950	20.7



Band 13_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Time-up limit (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.98			25.2
10	QPSK	1	25	24.02			
10	QPSK	1	49	24.10			
10	QPSK	25	0	23.16			24.2
10	QPSK	25	12	23.17			
10	QPSK	25	25	23.19			
10	QPSK	50	0	23.18			24.2
10	HQAM	1	0	23.38			
10	HQAM	1	25	23.37			
10	HQAM	1	49	23.40			23.2
10	HQAM	25	0	22.17			
10	HQAM	25	12	22.20			
10	HQAM	25	25	22.22			23.2
10	HQAM	50	0	22.19			
10	HQAM	1	0	22.21			
10	HQAM	1	25	22.32			22.2
10	HQAM	1	49	22.34			
10	HQAM	25	0	21.17			
10	HQAM	25	12	21.24			22.2
10	HQAM	25	25	21.23			
10	HQAM	50	0	21.23			
10	256QAM	1	0	18.81			20.2
10	256QAM	1	25	18.97			
10	256QAM	1	49	18.91			
10	256QAM	25	0	18.78			20.2
10	256QAM	25	12	18.86			
10	256QAM	25	25	18.89			
10	256QAM	50	0	18.84			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.93	23.98	23.74	25.2
5	QPSK	1	24	24.04	24.07	23.77	
5	QPSK	1	24	24.07	24.08	23.83	
5	QPSK	12	0	23.10	23.13	22.85	24.2
5	QPSK	12	12	23.18	23.15	22.93	
5	QPSK	12	12	23.19	23.21	22.89	
5	QPSK	25	0	23.18	23.14	22.90	24.2
5	HQAM	1	0	23.31	23.29	23.01	
5	HQAM	1	12	23.29	23.33	23.04	
5	HQAM	1	24	23.07	23.08	23.04	23.2
5	HQAM	12	0	22.20	22.17	21.92	
5	HQAM	12	7	22.20	22.17	21.95	
5	HQAM	12	13	22.21	22.22	21.94	23.2
5	HQAM	25	0	22.23	22.16	21.92	
5	HQAM	1	0	22.19	22.28	21.94	
5	HQAM	1	24	22.25	22.20	22.01	23.2
5	HQAM	1	24	22.29	22.32	22.02	
5	HQAM	12	0	21.22	21.23	20.96	
5	HQAM	12	7	21.28	21.21	20.98	22.2
5	HQAM	12	13	21.25	21.26	20.95	
5	HQAM	25	0	21.06	21.17	20.96	
5	256QAM	1	0	18.55	18.57	18.59	20.2
5	256QAM	1	12	18.93	18.96	18.94	
5	256QAM	1	24	18.96	18.99	18.96	
5	256QAM	12	7	18.83	18.78	18.79	20.2
5	256QAM	12	13	18.82	18.84	18.79	
5	256QAM	25	0	18.77	18.77	18.74	



Band 14_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	24.56	24.56	
10	QPSK	1	25	24.53	24.53	
10	QPSK	1	49	24.48	24.48	25.7
10	QPSK	25	0	23.55	23.55	
10	QPSK	25	12	23.57	23.57	
10	QPSK	25	25	23.63	23.63	24.7
10	QPSK	50	0	23.55	23.55	
10	HQAM	1	0	23.95	23.95	
10	HQAM	1	25	23.91	23.91	24.7
10	HQAM	1	49	23.86	23.86	
10	HQAM	25	0	22.54	22.54	
10	HQAM	25	12	22.57	22.57	
10	HQAM	25	25	22.64	22.64	23.7
10	HQAM	50	0	22.55	22.55	
10	HQAM	1	0	22.79	22.79	
10	HQAM	1	25	22.84	22.84	23.7
10	HQAM	1	49	22.79	22.79	
10	HQAM	25	0	21.58	21.58	
10	HQAM	25	12	21.61	21.61	
10	HQAM	25	25	21.63	21.63	22.7
10	HQAM	50	0	21.59	21.59	
10	256QAM	1	0	19.53	19.53	
10	256QAM	1	25	19.57	19.57	20.7
10	256QAM	1	49	19.55	19.55	
10	256QAM	25	0	19.29	19.29	
10	256QAM	25	12	19.34	19.34	
10	256QAM	25	25	19.33	19.33	20.7
10	256QAM	50	0	19.25	19.25	
Channel						
Frequency (MHz)						
5	QPSK	1	0	24.48	24.48	24.45
5	QPSK	1	24	24.56	24.53	24.55
5	QPSK	1	24	24.55	24.55	24.48
5	QPSK	12	0	23.62	23.54	23.51
5	QPSK	12	6	23.68	23.66	23.60
5	QPSK	12	12	23.81	23.80	23.56
5	QPSK	25	0	23.59	23.54	23.52
5	HQAM	1	0	23.82	23.82	23.79
5	HQAM	1	12	23.90	23.92	23.86
5	HQAM	1	24	23.86	23.86	23.79
5	HQAM	12	0	22.84	22.81	22.83
5	HQAM	12	7	22.88	22.89	22.88
5	HQAM	12	13	22.95	22.93	22.94
5	HQAM	25	0	22.62	22.56	22.56
5	HQAM	1	0	22.81	22.77	22.77
5	HQAM	1	24	22.83	22.85	22.84
5	HQAM	1	24	22.82	22.82	22.80
5	HQAM	12	0	21.71	21.60	21.58
5	HQAM	12	7	21.69	21.70	21.68
5	HQAM	12	13	21.83	21.86	21.81
5	HQAM	25	0	21.65	21.61	21.54
5	256QAM	1	0	19.47	19.49	19.53
5	256QAM	1	12	19.31	19.33	19.28
5	256QAM	1	24	19.46	19.52	19.42
5	256QAM	12	0	19.19	19.27	19.27
5	256QAM	12	7	19.28	19.28	19.34
5	256QAM	12	13	19.33	19.35	19.33
5	256QAM	25	0	19.21	19.19	19.15



Band 17_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (sec)
Channel							
Frequency (MHz)							
				706	710	711	
10	QPSK	1	0	2456	2456	2453	25.7
10	QPSK	1	25	2458	2464	2460	
10	QPSK	1	49	2462	2466	2462	
10	QPSK	25	0	2384	2386	2382	24.7
10	QPSK	25	12	2378	2373	2371	
10	QPSK	25	25	2380	2379	2380	
10	HQAM	1	0	2390	2392	2391	24.7
10	HQAM	1	25	2401	2401	2400	
10	HQAM	1	49	2401	2402	2402	
10	HQAM	25	0	2265	2264	2264	23.7
10	HQAM	25	12	2278	2271	2271	
10	HQAM	25	25	2277	2281	2276	
10	HQAM	50	0	2269	2270	2267	23.7
10	HQAM	50	0	2286	2276	2274	
10	HQAM	1	25	2252	2257	2250	
10	HQAM	1	49	2252	2258	2263	22.7
10	HQAM	25	0	2167	2167	2167	
10	HQAM	25	12	2184	2178	2178	
10	HQAM	25	25	2180	2182	2182	20.7
10	HQAM	50	0	2170	2171	2171	
10	256QAM	1	0	1944	1937	1933	
10	256QAM	1	25	1950	1948	1951	20.7
10	256QAM	1	49	1958	1950	1958	
10	256QAM	25	0	1946	1944	1946	
10	256QAM	25	12	1956	1952	1943	20.7
10	256QAM	25	25	1958	1954	1952	
10	256QAM	50	0	1948	1948	1948	
Channel							
Frequency (MHz)							
				706.5	710	713.5	
5	QPSK	1	0	2457	2456	2455	25.7
5	QPSK	1	25	2460	2461	2463	
5	QPSK	1	24	2484	2461	2464	
5	QPSK	12	0	2387	2389	2386	24.7
5	QPSK	12	12	2378	2374	2369	
5	QPSK	12	13	2377	2376	2373	
5	HQAM	1	0	2376	2376	2366	24.7
5	HQAM	1	0	2391	2393	2391	
5	HQAM	1	12	2397	2403	2398	
5	HQAM	1	24	2408	2404	2401	23.7
5	HQAM	12	0	2270	2272	2272	
5	HQAM	12	7	2278	2274	2273	
5	HQAM	12	13	2278	2277	2274	23.7
5	HQAM	25	0	2274	2275	2269	
5	HQAM	1	0	2289	2287	2288	
5	HQAM	1	24	2290	2296	2290	22.7
5	HQAM	1	24	2294	2300	2293	
5	HQAM	12	0	2173	2177	2178	
5	HQAM	12	7	2181	2179	2173	22.7
5	HQAM	12	13	2179	2185	2175	
5	HQAM	25	0	2179	2174	2170	
5	256QAM	1	0	1941	1929	1924	20.7
5	256QAM	1	12	1949	1946	1944	
5	256QAM	1	24	1944	1950	1950	
5	256QAM	12	7	1958	1947	1940	20.7
5	256QAM	12	13	1953	1954	1952	
5	256QAM	25	0	1937	1941	1942	





Band 25_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power High	Power Mid	Ch. Freq	Ch. Freq	Ch. Freq	Time-up (ms)
Channel										
Frequency (MHz)										
1860 1865 1865										
20	QPSK	1	0	2411	2416	2416	2411	2416	2416	25.7
20	QPSK	1	49	2434	2438	2438	2434	2438	2438	
20	QPSK	1	99	2459	2463	2463	2459	2463	2463	
20	QPSK	60	0	2314	2322	2322	2314	2322	2322	24.7
20	QPSK	50	24	2321	2329	2329	2321	2329	2329	
20	QPSK	50	50	2319	2327	2327	2319	2327	2327	
20	QPSK	100	0	2324	2334	2334	2324	2334	2334	
20	HQAM	1	0	2338	2334	2334	2338	2334	2334	24.7
20	HQAM	1	49	2339	2345	2345	2339	2345	2345	
20	HQAM	1	99	2350	2354	2354	2350	2354	2354	
20	HQAM	50	0	2211	2219	2219	2211	2219	2219	23.7
20	HQAM	50	24	2223	2231	2231	2223	2231	2231	
20	HQAM	50	50	2225	2233	2233	2225	2233	2233	
20	HQAM	100	0	2217	2229	2229	2217	2229	2229	
20	HQAM	1	0	2218	2216	2216	2218	2216	2216	23.7
20	HQAM	1	49	2221	2224	2224	2221	2224	2224	
20	HQAM	1	99	2227	2243	2243	2227	2243	2243	
20	HQAM	50	0	2114	2123	2123	2114	2123	2123	22.7
20	HQAM	50	24	2123	2135	2135	2123	2135	2135	
20	HQAM	50	50	2123	2131	2131	2123	2131	2131	
20	HQAM	100	0	2122	2130	2130	2122	2130	2130	
20	SSBQAM	1	0	1985	1944	1988	1985	1944	1988	20.7
20	SSBQAM	1	49	1978	1975	1977	1978	1975	1977	
20	SSBQAM	1	99	1955	1948	1951	1955	1948	1951	
20	SSBQAM	50	0	1958	1982	1970	1958	1982	1970	
20	SSBQAM	50	24	1971	1964	1972	1971	1964	1972	
20	SSBQAM	50	50	1974	1973	1970	1974	1973	1970	
20	SSBQAM	100	0	1964	1972	1977	1964	1972	1977	
Channel										
1867.5 1860 1867.5										
Frequency (MHz)										
1867.5 1860 1867.5										
15	QPSK	1	0	2408	2399	2418	2408	2399	2418	25.7
15	QPSK	1	49	2401	2414	2421	2401	2414	2421	
15	QPSK	1	74	2400	2411	2409	2400	2411	2409	
15	QPSK	30	0	2310	2315	2317	2310	2315	2317	24.7
15	QPSK	30	20	2314	2319	2328	2314	2319	2328	
15	QPSK	30	39	2318	2317	2332	2318	2317	2332	
15	QPSK	75	0	2315	2319	2328	2315	2319	2328	
15	HQAM	1	0	2331	2334	2343	2331	2334	2343	24.7
15	HQAM	1	39	2330	2340	2351	2330	2340	2351	
15	HQAM	1	74	2341	2348	2340	2341	2348	2340	
15	HQAM	30	0	2208	2217	2230	2208	2217	2230	23.7
15	HQAM	30	20	2223	2225	2232	2223	2225	2232	
15	HQAM	30	39	2225	2226	2231	2225	2226	2231	
15	HQAM	75	0	2214	2228	2225	2214	2228	2225	
15	HQAM	1	0	2218	2221	2209	2218	2221	2209	23.7
15	HQAM	1	49	2218	2223	2198	2218	2223	2198	
15	HQAM	1	74	2223	2238	2170	2223	2238	2170	
15	HQAM	30	0	2107	2115	2093	2107	2115	2093	22.7
15	HQAM	30	20	2118	2132	2113	2118	2132	2113	
15	HQAM	30	39	2122	2125	2088	2122	2125	2088	
15	HQAM	75	0	2116	2125	2070	2116	2125	2070	
15	SSBQAM	1	0	1955	1944	1978	1955	1944	1978	20.7
15	SSBQAM	1	39	1963	1973	1988	1963	1973	1988	
15	SSBQAM	1	74	1951	1944	1980	1951	1944	1980	
15	SSBQAM	30	0	1948	1950	1953	1948	1950	1953	
15	SSBQAM	30	20	1978	1955	1989	1978	1955	1989	
15	SSBQAM	30	39	1971	1970	1973	1971	1970	1973	
15	SSBQAM	75	0	1952	1972	1972	1952	1972	1972	
Channel										
2000 2000 2000										
Frequency (MHz)										
2000 2000 2000										
10	QPSK	1	0	2405	2396	2417	2405	2396	2417	25.7
10	QPSK	1	25	2397	2414	2413	2397	2414	2413	
10	QPSK	1	49	2408	2412	2406	2408	2412	2406	
10	QPSK	25	0	2304	2322	2328	2304	2322	2328	24.7
10	QPSK	25	12	2320	2320	2328	2320	2320	2328	
10	QPSK	25	25	2319	2319	2333	2319	2319	2333	
10	QPSK	50	0	2316	2317	2330	2316	2317	2330	
10	HQAM	1	0	2328	2328	2344	2328	2328	2344	24.7
10	HQAM	1	25	2331	2338	2351	2331	2338	2351	
10	HQAM	1	49	2342	2351	2338	2342	2351	2338	
10	HQAM	25	0	2202	2217	2231	2202	2217	2231	23.7
10	HQAM	25	12	2223	2228	2225	2223	2228	2225	
10	HQAM	25	25	2217	2227	2232	2217	2227	2232	
10	HQAM	50	0	2215	2220	2235	2215	2220	2235	
10	HQAM	1	0	2217	2231	2214	2217	2231	2214	23.7
10	HQAM	1	25	2219	2225	2197	2219	2225	2197	
10	HQAM	1	49	2225	2242	2170	2225	2242	2170	
10	HQAM	25	0	2108	2115	2092	2108	2115	2092	22.7
10	HQAM	25	12	2121	2130	2118	2121	2130	2118	
10	HQAM	25	25	2123	2128	2107	2123	2128	2107	
10	HQAM	50	0	2117	2130	2047	2117	2130	2047	
10	SSBQAM	1	0	1955	1944	1978	1955	1944	1978	20.7
10	SSBQAM	1	25	1954	1973	1970	1954	1973	1970	
10	SSBQAM	1	49	1964	1964	1991	1964	1964	1991	
10	SSBQAM	25	0	1947	1958	1980	1947	1958	1980	
10	SSBQAM	25	12	1970	1951	1952	1970	1951	1952	
10	SSBQAM	25	25	1970	1973	1971	1970	1973	1971	
10	SSBQAM	50	0	1957	1955	1977	1957	1955	1977	
Channel										
2005 2000 2005										
Frequency (MHz)										
2005 2000 2005										
5	QPSK	1	0	2409	2400	2415	2409	2400	2415	25.7
5	QPSK	1	12	2396	2411	2413	2396	2411	2413	
5	QPSK	1	24	2405	2415	2411	2405	2415	2411	
5	QPSK	15	0	2310	2319	2324	2310	2319	2324	24.7
5	QPSK	12	7	2321	2324	2328	2321	2324	2328	
5	QPSK	12	15	2314	2323	2334	2314	2323	2334	
5	QPSK	24	0	2314	2319	2328	2314	2319	2328	
5	HQAM	1	0	2328	2332	2351	2328	2332	2351	24.7
5	HQAM	1	12	2333	2344	2358	2333	2344	2358	
5	HQAM	1	24	2349	2348	2337	2349	2348	2337	
5	HQAM	12	0	2202	2211	2224	2202	2211	2224	23.7
5	HQAM	12	12	2216	2223	2230	2216	2223	2230	
5	HQAM	12	12	2224	2223	2230	2224	2223	2230	
5	HQAM	25	0	2215	2220	2235	2215	2220	2235	
5	HQAM	1	0	2211	2220	2213	2211	2220	2213	23.7
5	HQAM	1	12	2213	2228	2187	2213	2228	2187	
5	HQAM	1	24	2218	2236	2170	2218	2236	2170	
5	HQAM	12	0	2109	2114	2095	2109	2114	2095	22.7
5	HQAM	12	7	2113	2128	2119	2113	2128	2119	
5	HQAM	12	12	2114	2121	2101	2114	2121	2101	
5	HQAM	25	0	2118	2125	2044	2118	2125	2044	
5	SSBQAM	1	0	1958	1939	1978	1958	1939	1978	20.7
5	SSBQAM	1	12	1948	1972	1980	1948	1972	1980	
5	SSBQAM	1	24	1930	1977	1939	1930	1977	1939	
5	SSBQAM	12	0	1946	1954	1986	1946	1954	1986	
5	SSBQAM	12	12	1967	1954	1970	1967	1954	1970	
5	SSBQAM	12	12	1974	1969	1978	1974	1969	1978	
5	SSBQAM	25	0	1955	1988	1970	1955	1988	1970	
Channel										
1851.5 1860 1851.5										
Frequency (MHz)										
1851.5 1860 1851.5										
3	QPSK	1	0	2401	2397	2413	2401	2397	2413	25.7
3	QPSK	1	6	2394	2412	2418	2394	2412	2418	
3	QPSK	1	14	2402	2418	2405	2402	2418	2405	
3	QPSK	6	0	2305	2317	2324	2305	2317	2324	24.7
3	QPSK	6	4	2317	2328	2324	2317	2328	2324	
3	QPSK	6	7	2315	2322	2335	2315	2322	2335	
3	QPSK	12	0	2320	2324	2330	2320	2324	2330	
3	HQAM	1	0	2332	2334	2350	2332	2334	2350	24.7
3	HQAM	1	6	2329	2338	2352	2329	2338	2352	
3	HQAM	1	14	2345	2348	2342	2345	2348	2342	
3	HQAM	6	0	2208	2209	2227	2208	2209	2227	23.7
3	HQAM	6	4	2214	2233	2225	2214	2233	2225	
3	HQAM	6	7	2215	2231	2230	2215	2231	2230	
3	HQAM	12	0	2207	2229	2211	2207	2229	2211	
3	HQAM	1	0	2218	2223	2218	2218	2223	2218	23.7
3	HQAM	1	6	2216	2230	2202	2216	2230	2202	
3	HQAM	1	14	2223	2234	2170	2223	2234	2170	
3	HQAM	6	0	2106	2100	2089	2106	2100	2089	22.7



Band 26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)	Time-down (ms)	
Channel									
Frequency (MHz)				831.5	831.5	831.5			
15	QPSK	1	0	2458	2458	2458			25.7
15	QPSK	3	0	2458	2458	2458			
15	QPSK	1	74	2449	2448	2438			
15	QPSK	3	0	2384	2382	2381			
15	QPSK	3	20	2389	2387	2357			24.7
15	QPSK	3	39	2354	2353	2359			
15	QPSK	7	0	2377	2368	2358			
15	HQAM	1	0	2388	2377	2385			24.7
15	HQAM	1	37	2379	2378	2378			
15	HQAM	74	0	2377	2371	2366			
15	HQAM	3	0	2263	2252	2259			23.7
15	HQAM	3	20	2255	2255	2255			
15	HQAM	3	39	2265	2262	2266			
15	HQAM	7	0	2268	2265	2261			
15	HQAM	1	0	2275	2267	2263			23.7
15	HQAM	1	37	2271	2274	2268			
15	HQAM	1	74	2272	2268	2263			
15	HQAM	3	0	2184	2184	2184			22.7
15	HQAM	3	20	2188	2188	2181			
15	HQAM	3	39	2187	2184	2183			
15	HQAM	7	0	2170	2167	2159			
15	256QAM	1	0	1949	1943	1944			20.7
15	256QAM	1	37	1945	1937	1946			
15	256QAM	74	0	1937	1936	1936			
15	256QAM	3	0	1939	1940	1938			
15	256QAM	3	20	1941	1941	1938			20.7
15	256QAM	3	39	1931	1932	1931			
15	256QAM	7	0	1941	1943	1934			
Channel									
Frequency (MHz)				831.5	831.5	831.5			
10	QPSK	1	0	2454	2452	2449			25.7
10	QPSK	3	0	2453	2452	2449			
10	QPSK	1	49	2453	2454	2442			
10	QPSK	2	0	2368	2357	2357			24.7
10	QPSK	2	0	2368	2358	2358			
10	QPSK	2	26	2383	2359	2357			
10	QPSK	5	0	2355	2355	2354			
10	HQAM	1	0	2359	2357	2358			24.7
10	HQAM	1	49	2359	2354	2375			
10	HQAM	2	0	2270	2259	2256			
10	HQAM	2	12	2259	2259	2254			23.7
10	HQAM	2	26	2259	2259	2254			
10	HQAM	5	0	2255	2254	2258			
10	HQAM	1	0	2292	2278	2274			23.7
10	HQAM	1	26	2285	2285	2278			
10	HQAM	1	49	2281	2280	2268			
10	HQAM	2	0	2151	2150	2152			22.7
10	HQAM	2	12	2170	2163	2162			
10	HQAM	2	26	2181	2181	2134			
10	HQAM	5	0	2151	2152	2155			
10	256QAM	1	0	1942	1942	1941			20.7
10	256QAM	1	26	1943	1928	1943			
10	256QAM	4	0	1941	1941	1938			
10	256QAM	2	0	1932	1934	1937			20.7
10	256QAM	2	12	1938	1942	1938			
10	256QAM	2	26	1938	1935	1934			
10	256QAM	5	0	1933	1933	1930			
Channel									
Frequency (MHz)				831.5	831.5	831.5			
5	QPSK	1	0	2450	2450	2455			25.7
5	QPSK	1	12	2453	2455	2454			
5	QPSK	1	24	2455	2456	2442			
5	QPSK	1	0	2372	2381	2381			24.7
5	QPSK	1	7	2359	2354	2358			
5	QPSK	1	14	2384	2360	2357			
5	QPSK	2	0	2368	2352	2357			
5	HQAM	1	0	2401	2391	2389			24.7
5	HQAM	1	12	2398	2398	2378			
5	HQAM	1	24	2398	2393	2374			
5	HQAM	1	1	2278	2263	2264			23.7
5	HQAM	1	12	2273	2268	2259			
5	HQAM	1	13	2265	2261	2252			
5	HQAM	2	0	2265	2262	2258			23.7
5	HQAM	1	0	2258	2254	2281			
5	HQAM	1	12	2272	2264	2264			
5	HQAM	1	24	2269	2266	2211			22.7
5	HQAM	1	0	2155	2187	2158			
5	HQAM	1	12	2162	2171	2121			
5	HQAM	1	13	2158	2164	2034			
5	HQAM	2	0	2152	2188	2122			20.7
5	256QAM	1	0	1941	1941	1938			
5	256QAM	1	12	1942	1938	1944			
5	256QAM	1	24	1948	1948	1927			
5	256QAM	1	1	1935	1935	1935			20.7
5	256QAM	1	12	1940	1940	1931			
5	256QAM	1	13	1928	1928	1930			
5	256QAM	2	0	1941	1933	1928			
Channel									
Frequency (MHz)				831.5	831.5	831.5			
3	QPSK	1	0	2443	2441	2453			25.7
3	QPSK	1	8	2452	2450	2454			
3	QPSK	1	14	2450	2448	2441			
3	QPSK	1	0	2372	2359	2358			24.7
3	QPSK	1	4	2361	2350	2353			
3	QPSK	1	7	2362	2359	2348			
3	QPSK	1	14	2361	2358	2348			
3	HQAM	1	0	2393	2387	2387			24.7
3	HQAM	1	8	2385	2386	2374			
3	HQAM	1	14	2380	2384	2373			
3	HQAM	1	0	2274	2257	2254			23.7
3	HQAM	1	4	2265	2265	2264			
3	HQAM	1	7	2261	2252	2244			
3	HQAM	1	15	2268	2261	2257			23.7
3	HQAM	1	0	2268	2278	2271			
3	HQAM	1	8	2287	2284	2224			
3	HQAM	1	14	2259	2286	2211			22.7
3	HQAM	1	0	2149	2162	2153			
3	HQAM	1	4	2163	2167	2112			
3	HQAM	1	7	2154	2144	2030			22.7
3	HQAM	1	14	2145	2158	2110			
3	256QAM	1	0	1947	1943	1939			20.7
3	256QAM	1	8	1940	1929	1946			
3	256QAM	1	14	1934	1946	1932			
3	256QAM	1	0	1930	1935	1933			20.7
3	256QAM	1	4	1941	1937	1929			
3	256QAM	1	7	1924	1924	1925			
3	256QAM	1	15	1934	1942	1926			
Channel									
Frequency (MHz)				814.7	831.5	846.3			
1.4	QPSK	1	0	2447	2443	2446			25.7
1.4	QPSK	1	0	2451	2448	2445			
1.4	QPSK	1	0	2449	2450	2432			
1.4	QPSK	3	0	2446	2448	2447			24.7
1.4	QPSK	3	0	2448	2450	2453			
1.4	QPSK	3	3	2446	2448	2432			
1.4	QPSK	3	0	2372	2358	2356			24.7
1.4	HQAM	1	0	2365	2364	2348			
1.4	HQAM	1	3	2360	2359	2341			24.7
1.4	HQAM	1	0	2364	2360	2354			
1.4	HQAM	3	0	2354	2355	2330			
1.4	HQAM	3	1	2387	2388	2377			
1.4	HQAM	3	0	2377	2350	2360			23.7
1.4	HQAM	6	0	2277	2281	2280			
1.4	HQAM	1	0	2288	2284	2259			23.7
1.4	HQAM	3	0	2255	2261	2243			
1.4	HQAM	1	8	2269	2259	2254			
1.4	HQAM	3	0	2251	2275	2279			23.7
1.4	HQAM	3	0	2252	2260	2224			
1.4	HQAM	3	3	2260	2286	2209			20.7
1.4	HQAM	6	0	2147	2167	2156			
1.4	256QAM	1	0	1944	1937	1936			
1.4	256QAM	1	3	1938	1934	1942			20.7
1.4	256QAM	1	0	1935	1940	1938			
1.4	256QAM	3	0	1938	1937	1931			
1.4	256QAM	3	1	1939	1938	1934			
1.4	256QAM	3	0	1931	1927</				



Band 30_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2315			24.2
10	QPSK	1	25	2309			
10	QPSK	1	49	2302			
10	QPSK	25	0	2208			23.2
10	QPSK	25	12	2216			
10	QPSK	25	25	2218			
10	QPSK	50	0	2214			23.2
10	HQAM	1	0	2244			
10	HQAM	1	25	2248			
10	HQAM	1	49	2241			22.2
10	HQAM	25	0	2108			
10	HQAM	25	12	2114			
10	HQAM	25	25	2117			22.2
10	HQAM	50	0	2114			
10	HQAM	1	0	2109			
10	HQAM	1	25	2109			21.2
10	HQAM	1	49	2127			
10	HQAM	25	0	2012			
10	HQAM	25	12	2020			21.2
10	HQAM	25	25	2020			
10	HQAM	50	0	2018			
10	256QAM	1	0	1880			19.2
10	256QAM	1	25	1894			
10	256QAM	1	49	1891			
10	256QAM	25	0	1878			19.2
10	256QAM	25	12	1873			
10	256QAM	25	25	1875			
10	256QAM	50	0	1877			
Channel							
Frequency (MHz)							
5	QPSK	1	0	2307.5	2310	2312.5	24.2
5	QPSK	1	0	2297	2301	2305	
5	QPSK	1	25	2314	2314	2312	
5	QPSK	1	24	2313	2313	2306	23.2
5	QPSK	12	0	2210	2212	2216	
5	QPSK	12	13	2223	2217	2221	
5	QPSK	25	0	2218	2214	2219	23.2
5	HQAM	1	0	2232	2234	2230	
5	HQAM	1	12	2242	2240	2238	
5	HQAM	1	24	2244	2240	2236	22.2
5	HQAM	12	0	2115	2114	2119	
5	HQAM	12	7	2124	2120	2122	
5	HQAM	12	13	2125	2116	2122	22.2
5	HQAM	25	0	2121	2116	2120	
5	HQAM	1	0	2128	2132	2134	
5	HQAM	1	25	2132	2136	2133	21.2
5	HQAM	1	24	2138	2138	2131	
5	HQAM	12	0	2017	2021	2020	
5	HQAM	12	7	2020	2023	2026	21.2
5	HQAM	12	13	2030	2025	2024	
5	HQAM	25	0	2025	2017	2020	
5	256QAM	1	0	1875	1876	1877	19.2
5	256QAM	1	12	1887	1890	1885	
5	256QAM	1	24	1896	1890	1887	
5	256QAM	12	7	1883	1872	1884	19.2
5	256QAM	12	13	1885	1875	1871	
5	256QAM	25	0	1875	1872	1870	



Band 66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Turn-up (dB)		
Channel									
Frequency (MHz)									
20	QPSK	1	0	2428	2428	2428			
20	QPSK	1	49	2422	2427	2420			25.7
20	QPSK	1	99	2423	2429	2424			
20	QPSK	64	0	2328	2328	2322			
20	QPSK	50	24	2338	2330	2330			24.7
20	QPSK	50	50	2337	2333	2326			
20	QPSK	100	0	2338	2331	2333			
20	HQAM	1	0	2359	2358	2351			24.7
20	HQAM	1	49	2360	2361	2352			
20	HQAM	1	99	2361	2358	2347			
20	HQAM	50	0	2222	2229	2224			
20	HQAM	50	24	2227	2225	2232			23.7
20	HQAM	50	50	2240	2238	2231			
20	HQAM	100	0	2241	2231	2232			
20	HQAM	1	0	2211	2212	2212			
20	HQAM	1	49	2246	2251	2175			23.7
20	HQAM	1	99	2258	2249	2222			
20	HQAM	50	0	2128	2134	2038			
20	HQAM	50	24	2143	2137	2065			22.7
20	HQAM	50	50	2141	2145	2131			
20	HQAM	100	0	2140	2131	2135			
20	SSBQAM	1	0	1979	1973	1971			20.7
20	SSBQAM	1	49	1959	1952	1958			
20	SSBQAM	1	99	2051	1958	1979			
20	SSBQAM	50	0	1952	1949	1949			
20	SSBQAM	50	24	1946	1974	1975			20.7
20	SSBQAM	50	50	1973	1971	1958			
20	SSBQAM	100	0	1972	1979	1945			
Channel									
Frequency (MHz)									
15	QPSK	1	0	2420	2428	2418			
15	QPSK	1	49	2413	2418	2420			25.7
15	QPSK	1	99	2416	2425	2414			
15	QPSK	30	0	2322	2334	2318			24.7
15	QPSK	30	20	2322	2328	2324			
15	QPSK	30	39	2330	2322	2325			
15	QPSK	75	0	2331	2324	2324			
15	HQAM	1	0	2355	2351	2343			24.7
15	HQAM	1	39	2359	2359	2346			
15	HQAM	1	74	2361	2352	2341			
15	HQAM	30	0	2218	2221	2220			23.7
15	HQAM	30	20	2234	2231	2232			
15	HQAM	30	39	2235	2232	2237			
15	HQAM	75	0	2231	2221	2228			
15	HQAM	1	0	2207	2205	2235			23.7
15	HQAM	1	49	2248	2244	2170			
15	HQAM	1	74	2249	2241	2222			
15	HQAM	30	0	2123	2128	2038			22.7
15	HQAM	30	20	2125	2132	2035			
15	HQAM	30	39	2132	2135	2125			
15	HQAM	75	0	2158	2127	2107			20.7
15	SSBQAM	1	0	1972	1968	1945			
15	SSBQAM	1	39	1955	1988	1982			
15	SSBQAM	1	74	1974	1974	1951			20.7
15	SSBQAM	30	0	1948	1954	1953			
15	SSBQAM	30	20	1975	1949	1975			
15	SSBQAM	30	39	1945	1950	1958			
15	SSBQAM	75	0	1972	1979	1958			
Channel									
Frequency (MHz)									
10	QPSK	1	0	2417	2422	2415			
10	QPSK	1	25	2414	2421	2420			25.7
10	QPSK	1	49	2418	2419	2424			
10	QPSK	25	0	2323	2325	2318			24.7
10	QPSK	25	12	2333	2328	2325			
10	QPSK	25	26	2329	2331	2318			
10	QPSK	50	0	2336	2321	2323			24.7
10	HQAM	1	0	2352	2348	2346			
10	HQAM	1	25	2354	2340	2352			
10	HQAM	1	49	2360	2349	2337			
10	HQAM	25	0	2219	2219	2221			23.7
10	HQAM	25	12	2229	2228	2231			
10	HQAM	25	26	2233	2228	2227			
10	HQAM	50	0	2228	2228	2221			23.7
10	HQAM	1	0	2202	2205	2234			
10	HQAM	1	25	2237	2250	2170			
10	HQAM	1	49	2240	2243	2217			22.7
10	HQAM	25	0	2120	2134	2038			
10	HQAM	25	12	2138	2130	2031			
10	HQAM	25	26	2139	2137	2127			
10	HQAM	50	0	2132	2128	2105			20.7
10	SSBQAM	1	0	1953	1951	1958			
10	SSBQAM	1	25	1953	1951	1958			
10	SSBQAM	1	49	1944	1941	1970			20.7
10	SSBQAM	25	0	1948	1950	1945			
10	SSBQAM	25	12	1970	1958	1975			
10	SSBQAM	25	26	1973	1952	1948			
10	SSBQAM	50	0	1968	1978	1958			
Channel									
Frequency (MHz)									
5	QPSK	1	0	2418	2423	2415			
5	QPSK	1	12	2412	2418	2419			25.7
5	QPSK	1	24	2422	2427	2419			
5	QPSK	15	0	2322	2331	2317			24.7
5	QPSK	12	7	2338	2321	2324			
5	QPSK	12	13	2329	2328	2320			
5	QPSK	24	0	2328	2325	2324			24.7
5	HQAM	1	0	2358	2351	2343			
5	HQAM	1	12	2355	2354	2343			
5	HQAM	1	24	2358	2348	2340			24.7
5	HQAM	12	0	2220	2225	2222			
5	HQAM	12	13	2228	2226	2226			23.7
5	HQAM	12	13	2230	2229	2229			
5	HQAM	25	0	2234	2222	2225			
5	HQAM	1	0	2202	2203	2230			23.7
5	HQAM	1	12	2243	2245	2170			
5	HQAM	1	24	2248	2252	2221			
5	HQAM	12	0	2121	2130	2038			22.7
5	HQAM	12	7	2136	2134	2037			
5	HQAM	12	13	2137	2148	2106			
5	HQAM	25	0	2132	2121	2109			
5	SSBQAM	1	0	1969	1966	1971			20.7
5	SSBQAM	1	12	1957	1950	1958			
5	SSBQAM	1	24	1958	1951	1972			
5	SSBQAM	12	0	1948	1955	1955			20.7
5	SSBQAM	12	13	1979	1973	1973			
5	SSBQAM	12	13	1971	1987	1951			
5	SSBQAM	25	0	1968	1974	1941			
Channel									
Frequency (MHz)									
3	QPSK	1	0	2423	2428	2417			
3	QPSK	1	6	2421	2423	2415			25.7
3	QPSK	1	14	2416	2424	2421			
3	QPSK	6	0	2326	2334	2319			24.7
3	QPSK	6	4	2337	2323	2330			
3	QPSK	6	7	2352	2322	2320			
3	QPSK	18	0	2333	2326	2329			24.7
3	HQAM	1	0	2359	2351	2349			
3	HQAM	1	6	2358	2358	2348			24.7
3	HQAM	1	14	2356	2349	2340			
3	HQAM	6	0	2216	2228	2219			23.7
3	HQAM	6	4	2231	2228	2230			
3	HQAM	6	7	2238	2238	2238			
3	HQAM	18	0	2239	2230	2228			
3	HQAM	1	0	2204	2204	2235			23.7
3	HQAM	1	14	2243	2241	2222			
3	HQAM	6	0	2119	2134	2030			22.7
3	HQAM	6	4	2141	2133	2039			
3	HQAM	6	7	2132	2137	2121			
3	HQAM	18	0	2133	2131	2105			
3	SSBQAM	1	0	1969	1972	1970			20.7
3	SSBQAM	1	6	1954	1966	1944			
3	SSBQAM	6	0	1942	1965	1940			20.7
3	SSBQAM	6	4	1975	1972	1945			
3	SSBQAM	6	7	1971	1966	1957			
3	SSBQAM	18	0	1963	1971	1943			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	2402	2409	2401			
1.4	QPSK	1	3	2408	2413	2400			



Band 71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dB)		
Channel				19329	19392	19392			
Frequency (MHz)				193	193	198			
20	QPSK	1	0	2455	2457	2452			
20	QPSK	1	49	2458	2453	2451			25.7
20	QPSK	1	99	2451	2453	2450			
20	QPSK	1	61	2366	2366	2358			
20	QPSK	50	24	2371	2361	2361			24.7
20	QPSK	50	50	2370	2364	2363			
20	QPSK	100	0	2370	2360	2358			
20	HQAM	1	0	2402	2392	2382			24.7
20	HQAM	1	49	2392	2389	2385			
20	HQAM	1	99	2389	2386	2385			
20	HQAM	50	0	2270	2268	2257			
20	HQAM	50	50	2273	2265	2261			23.7
20	HQAM	50	50	2270	2268	2264			
20	HQAM	100	0	2270	2262	2259			
20	HQAM	1	49	2264	2255	2254			
20	HQAM	1	49	2261	2259	2271			23.7
20	HQAM	1	99	2278	2277	2278			
20	HQAM	50	0	2128	2127	2161			
20	HQAM	50	24	2123	2165	2165			22.7
20	HQAM	50	50	2171	2166	2165			
20	HQAM	100	0	2174	2162	2162			
20	SSBQAM	1	0	1958	1950	1937			20.7
20	SSBQAM	1	49	1941	1936	1939			
20	SSBQAM	1	99	1945	1935	1935			
20	SSBQAM	50	0	1941	1947	1944			
20	SSBQAM	50	24	1945	1944	1938			
20	SSBQAM	50	50	1940	1938	1929			20.7
20	SSBQAM	100	0	1943	1943	1932			
Channel				193108	193108	193108			Turn-up (dB)
Frequency (MHz)				670.5	680.5	680.5			
15	QPSK	1	0	2464	2457	2453			
15	QPSK	1	49	2456	2453	2452			25.7
15	QPSK	1	74	2453	2458	2453			
15	QPSK	30	0	2388	2364	2360			24.7
15	QPSK	30	20	2371	2368	2369			
15	QPSK	30	39	2384	2383	2381			
15	QPSK	75	0	2372	2369	2366			
15	HQAM	1	0	2401	2393	2384			24.7
15	HQAM	1	39	2384	2390	2388			
15	HQAM	1	74	2382	2382	2384			
15	HQAM	30	0	2268	2264	2262			
15	HQAM	30	20	2271	2269	2268			23.7
15	HQAM	30	39	2264	2262	2263			
15	HQAM	75	0	2273	2269	2267			
15	HQAM	1	0	2247	2279	2275			23.7
15	HQAM	1	49	2263	2278	2278			
15	HQAM	1	74	2275	2283	2277			
15	HQAM	30	0	2148	2160	2163			
15	HQAM	30	20	2152	2171	2171			22.7
15	HQAM	30	39	2168	2185	2185			
15	HQAM	75	0	2170	2170	2188			
15	SSBQAM	1	0	1949	1952	1927			20.7
15	SSBQAM	1	39	1933	1928	1932			
15	SSBQAM	1	74	1946	1946	1936			
15	SSBQAM	30	0	1935	1941	1937			20.7
15	SSBQAM	30	20	1932	1943	1930			
15	SSBQAM	30	39	1938	1938	1935			
15	SSBQAM	75	0	1938	1938	1931			
Channel				193102	193202	193422			Turn-up (dB)
Frequency (MHz)				682.5	672.5	682.5			
10	QPSK	1	0	2452	2457	2449			
10	QPSK	1	25	2455	2445	2450			25.7
10	QPSK	1	49	2452	2451	2445			
10	QPSK	25	0	2372	2358	2353			24.7
10	QPSK	25	12	2371	2358	2359			
10	QPSK	25	26	2366	2362	2361			
10	QPSK	50	0	2371	2365	2356			
10	HQAM	1	0	2405	2391	2384			24.7
10	HQAM	1	25	2392	2386	2389			
10	HQAM	1	49	2388	2390	2383			
10	HQAM	25	0	2272	2266	2264			23.7
10	HQAM	25	12	2271	2267	2264			
10	HQAM	25	26	2264	2260	2261			
10	HQAM	50	0	2271	2263	2264			23.7
10	HQAM	1	0	2254	2278	2273			
10	HQAM	1	25	2258	2270	2260			
10	HQAM	1	49	2266	2281	2271			
10	HQAM	25	0	2132	2159	2165			22.7
10	HQAM	25	12	2133	2160	2162			
10	HQAM	25	26	2128	2165	2164			
10	HQAM	50	0	2141	2168	2157			
10	SSBQAM	1	0	1955	1957	1936			20.7
10	SSBQAM	1	25	1938	1928	1934			
10	SSBQAM	1	49	1937	1945	1955			
10	SSBQAM	25	0	1934	1942	1937			20.7
10	SSBQAM	25	12	1932	1935	1932			
10	SSBQAM	25	26	1940	1928	1928			
10	SSBQAM	50	0	1938	1933	1922			
Channel				193147	193247	193447			Turn-up (dB)
Frequency (MHz)				682.5	672.5	682.5			
5	QPSK	1	0	2450	2457	2450			
5	QPSK	1	12	2461	2454	2456			25.7
5	QPSK	1	24	2456	2454	2447			
5	QPSK	10	0	2370	2363	2364			24.7
5	QPSK	12	7	2373	2364	2370			
5	QPSK	12	13	2366	2360	2361			
5	QPSK	24	0	2370	2364	2359			
5	HQAM	1	0	2402	2392	2389			24.7
5	HQAM	1	12	2395	2390	2388			
5	HQAM	1	24	2389	2388	2383			
5	HQAM	12	0	2282	2266	2268			23.7
5	HQAM	12	13	2276	2266	2270			
5	HQAM	12	13	2289	2261	2261			
5	HQAM	25	0	2273	2265	2262			
5	HQAM	1	0	2223	2260	2279			23.7
5	HQAM	1	12	2248	2285	2281			
5	HQAM	11	24	2247	2283	2278			
5	HQAM	10	0	2134	2170	2171			22.7
5	HQAM	12	7	2149	2170	2173			
5	HQAM	12	13	2168	2164	2163			
5	HQAM	25	0	2131	2167	2162			
5	SSBQAM	1	0	1955	1952	1931			20.7
5	SSBQAM	1	12	1937	1928	1936			
5	SSBQAM	1	24	1938	1947	1955			
5	SSBQAM	12	0	1935	1945	1934			20.7
5	SSBQAM	12	13	1937	1938	1932			
5	SSBQAM	12	13	1936	1936	1920			
5	SSBQAM	25	0	1937	1935	1931			



Band 2_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up limit (min)			
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.55	23.55	23.54	25.5			
20	QPSK	1	49	23.51	23.55	23.54				
20	QPSK	1	99	23.55	23.61	23.62				
20	QPSK	66	0	22.87	22.71	22.71	24.5			
20	QPSK	50	24	22.87	22.73	22.73				
20	QPSK	50	50	22.85	22.77	22.84				
20	HQAM	100	0	22.88	22.69	22.74	24.5			
20	HQAM	1	0	22.96	22.95	22.98				
20	HQAM	1	49	22.84	22.98	22.94				
20	HQAM	50	0	22.84	22.90	22.91	23.5			
20	HQAM	50	0	21.60	21.72	21.72				
20	HQAM	50	24	21.65	21.75	21.77				
20	HQAM	50	50	21.68	21.78	21.83	23.5			
20	HQAM	100	0	21.85	21.88	21.75				
20	HQAM	1	0	21.73	21.80	21.86				
20	HQAM	1	49	22.72	21.87	21.33	23.5			
20	HQAM	1	99	22.82	21.79	21.82				
20	HQAM	50	0	21.58	20.73	20.74				
20	HQAM	50	24	21.86	20.77	20.50	22.5			
20	HQAM	50	50	21.84	20.80	20.76				
20	HQAM	100	0	21.85	20.74	20.80				
20	SSBQAM	1	0	18.70	18.84	18.90	20.5			
20	SSBQAM	1	49	18.81	18.90	18.85				
20	SSBQAM	1	99	18.80	18.87	18.83				
20	SSBQAM	50	0	18.84	18.75	18.80	20.5			
20	SSBQAM	50	24	18.75	18.85	18.85				
20	SSBQAM	50	50	18.83	18.88	18.88				
20	SSBQAM	100	0	18.78	18.81	18.89	20.5			
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.54	23.59	23.68	25.5			
15	QPSK	1	49	23.51	23.65	23.58				
15	QPSK	1	74	23.52	23.59	23.54				
15	QPSK	30	0	22.59	22.69	22.64	24.5			
15	QPSK	30	20	22.67	22.63	22.65				
15	QPSK	30	39	22.69	22.69	22.78				
15	QPSK	75	0	22.62	22.65	22.69	24.5			
15	HQAM	1	0	22.90	22.88	22.88				
15	HQAM	1	37	22.83	22.96	22.91				
15	HQAM	1	74	22.81	22.88	22.82	24.5			
15	HQAM	30	0	21.83	21.84	21.84				
15	HQAM	30	20	21.80	21.73	21.76				
15	HQAM	30	39	21.80	21.76	21.76	23.5			
15	HQAM	75	0	21.80	21.58	21.71				
15	HQAM	1	0	22.88	21.72	21.83				
15	HQAM	1	49	22.72	21.82	21.55	23.5			
15	HQAM	1	74	22.81	21.79	21.80				
15	HQAM	30	0	21.81	20.83	20.71				
15	HQAM	30	20	21.85	20.74	20.58	22.5			
15	HQAM	30	39	21.58	20.70	20.74				
15	HQAM	75	0	21.55	20.98	20.59				
15	SSBQAM	1	0	18.80	18.75	18.85	20.5			
15	SSBQAM	1	37	18.71	18.90	18.95				
15	SSBQAM	1	74	18.71	18.70	18.76				
15	SSBQAM	30	0	18.77	18.70	18.76	20.5			
15	SSBQAM	30	20	18.74	18.79	18.85				
15	SSBQAM	30	39	18.75	18.78	18.86				
15	SSBQAM	75	0	18.72	18.80	18.85	20.5			
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.53	23.51	23.69	25.5			
10	QPSK	1	25	23.51	23.58	23.55				
10	QPSK	1	49	23.52	23.57	23.62				
10	QPSK	25	0	22.83	22.83	22.82	24.5			
10	QPSK	25	12	22.84	22.84	22.86				
10	QPSK	25	25	22.83	22.71	22.85				
10	QPSK	60	0	22.59	22.67	22.84	24.5			
10	HQAM	1	0	22.98	22.90	22.96				
10	HQAM	1	25	22.78	22.68	22.90				
10	HQAM	1	49	22.75	22.85	22.89	24.5			
10	HQAM	25	0	21.80	21.62	21.87				
10	HQAM	25	12	21.83	21.70	21.70				
10	HQAM	25	25	21.84	21.74	21.74	23.5			
10	HQAM	50	0	21.82	21.61	21.74				
10	HQAM	1	0	22.87	21.72	21.84				
10	HQAM	1	25	22.70	21.84	21.52	23.5			
10	HQAM	1	49	22.73	21.72	21.74				
10	HQAM	25	0	21.82	20.86	20.71				
10	HQAM	25	12	21.59	20.89	20.52	22.5			
10	HQAM	25	25	21.60	20.73	20.76				
10	HQAM	50	0	21.59	20.85	20.58				
10	SSBQAM	1	0	18.73	18.98	18.95	20.5			
10	SSBQAM	1	25	18.73	18.98	18.95				
10	SSBQAM	1	49	18.78	18.97	18.94				
10	SSBQAM	25	0	18.84	18.75	18.80	20.5			
10	SSBQAM	25	12	18.73	18.77	18.83				
10	SSBQAM	25	25	18.78	18.81	18.95				
10	SSBQAM	50	0	18.87	18.79	18.83	20.5			
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.53	23.54	23.68	25.5			
5	QPSK	1	12	23.50	23.57	23.62				
5	QPSK	1	24	23.54	23.54	23.61				
5	QPSK	15	0	22.83	22.83	22.81	24.5			
5	QPSK	12	7	22.87	22.83	22.87				
5	QPSK	12	15	22.85	22.76	22.83				
5	QPSK	24	0	22.83	22.68	22.74	24.5			
5	HQAM	1	0	22.93	22.89	22.98				
5	HQAM	1	12	22.81	22.68	22.81				
5	HQAM	1	24	22.81	22.82	22.88	24.5			
5	HQAM	12	0	21.59	21.71	21.87				
5	HQAM	12	12	21.84	21.73	21.76				
5	HQAM	12	12	21.83	21.68	21.77	23.5			
5	HQAM	25	0	21.58	21.60	21.69				
5	HQAM	1	0	22.71	21.79	21.88				
5	HQAM	1	12	22.89	21.82	21.83	23.5			
5	HQAM	1	24	22.75	21.71	21.81				
5	HQAM	12	0	21.59	20.68	20.65				
5	HQAM	12	7	21.60	20.69	20.50	22.5			
5	HQAM	25	12	21.58	20.70	20.67				
5	HQAM	25	0	21.52	20.72	20.57				
5	SSBQAM	1	0	18.70	18.80	18.88	20.5			
5	SSBQAM	1	12	18.77	18.94	18.98				
5	SSBQAM	1	24	18.80	18.87	18.93				
5	SSBQAM	12	0	18.82	18.74	18.78	20.5			
5	SSBQAM	12	12	18.80	18.79	18.77				
5	SSBQAM	12	12	18.80	18.83	18.88				
5	SSBQAM	25	0	18.78	18.77	18.83	20.5			
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.59	23.59	23.68	25.5			
3	QPSK	1	8	23.51	23.65	23.57				
3	QPSK	1	14	23.51	23.52	23.54				
3	QPSK	8	0	22.82	22.70	22.69	24.5			
3	QPSK	8	4	22.87	22.73	22.69				
3	QPSK	8	7	22.84	22.76	22.78				
3	QPSK	16	0	22.81	22.67	22.81	24.5			
3	HQAM	1	0	22.91	22.91	22.96				
3	HQAM	1	8	22.81	22.89	22.88				
3	HQAM	1	14	22.85	22.87	22.85	24.5			
3	HQAM	8	0	21.55	21.66	21.72				
3	HQAM	8	4	21.62	21.68	21.78				
3	HQAM	8	7	21.68	21.71	21.78	23.5			
3	HQAM	16	0	21.85	21.82	21.72				
3	HQAM	1	0	22.70	21.80	21.80				
3	HQAM	1	8	22.66	21.79	21.83	23.5			
3	HQAM	1	14	22.82	21.79	21.73				
3	HQAM	8	0	21.56	20.73	20.67				
3	HQAM	13	4	21.56	20.73	21.58	22.5			
3	HQAM	8	7	21.57	20.78	20.69				
3	HQAM	16	0	21.85	20.74	20.54				
3	SSBQAM	1	0	18.70	18.81	18.88	20.5			
3	SSBQAM	1	8	18.81	18.95	18.95				
3	SSBQAM	8	0	18.99	18.68	18.70				
3	SSBQAM	8	4	18.74	18.72	18.75	20.5			
3	SSBQAM	8	7	18.74	18.84	18.91				
3	SSBQAM	16	0	18.71	18.80	18.84				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.51	23.52	23.57	25.5			
1.4	QPSK	1	3	23.58	23.61	23.63				
1.4	QPSK									



Band 4_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power High Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Power High Ch. Freq	Turn-up (dBm)
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.99	24.00	23.98			25.5
20	QPSK	1	49	23.92	23.91	23.78			
20	QPSK	1	99	23.78	23.79	23.72			
20	QPSK	64	0	23.01	23.03	22.98			
20	QPSK	50	24	23.03	22.94	22.91			24.5
20	QPSK	50	50	22.95	22.90	22.89			
20	QPSK	100	0	23.00	22.97	22.87			
20	HQAM	1	0	23.34	23.29	23.33			24.5
20	HQAM	1	49	23.17	23.10	23.11			
20	HQAM	1	99	23.15	23.09	23.04			
20	HQAM	50	0	22.02	22.03	21.98			23.5
20	HQAM	50	50	22.05	21.96	21.90			
20	HQAM	100	0	22.01	21.98	21.90			
20	HQAM	1	0	21.94	21.93	21.92			23.5
20	HQAM	1	49	22.03	22.01	22.02			
20	HQAM	1	99	22.04	21.91	21.98			
20	HQAM	50	0	20.98	21.07	20.93			22.5
20	HQAM	50	24	21.05	20.99	20.94			
20	HQAM	50	50	21.00	20.88	20.93			
20	HQAM	100	0	21.08	20.97	20.90			
20	256QAM	1	0	18.01	18.86	18.02			20.5
20	256QAM	1	49	18.04	18.86	18.81			
20	256QAM	1	99	18.10	18.01	18.06			
20	256QAM	50	0	18.94	18.91	18.88			20.5
20	256QAM	50	24	18.91	18.96	18.96			
20	256QAM	50	50	18.34	18.07	18.08			
20	256QAM	100	0	18.07	18.93	18.91			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.90	23.96	23.95			25.5
15	QPSK	1	49	23.80	23.78	23.78			
15	QPSK	1	74	23.75	23.70	23.70			
15	QPSK	36	0	23.00	23.01	22.98			24.5
15	QPSK	36	26	23.02	22.93	22.89			
15	QPSK	36	39	22.81	22.89	22.85			
15	QPSK	75	0	22.90	22.90	22.86			
15	HQAM	1	0	23.34	23.27	23.31			24.5
15	HQAM	1	37	23.11	23.11	23.04			
15	HQAM	1	75	23.08	23.04	23.08			
15	HQAM	36	0	21.96	21.97	21.91			23.5
15	HQAM	36	20	21.98	21.88	21.85			
15	HQAM	36	39	21.96	21.86	21.82			
15	HQAM	75	0	21.99	21.96	21.92			
15	HQAM	1	0	21.21	20.13	20.02			23.5
15	HQAM	1	37	21.04	22.00	21.95			
15	HQAM	1	74	22.02	21.86	21.98			
15	HQAM	36	0	20.80	21.02	20.81			22.5
15	HQAM	36	20	21.04	20.93	20.87			
15	HQAM	36	39	20.92	20.85	20.84			
15	HQAM	75	0	20.99	20.92	20.89			20.5
15	256QAM	1	0	18.03	18.86	18.01			
15	256QAM	1	37	18.03	18.76	18.80			
15	256QAM	1	75	18.04	18.00	18.00			
15	256QAM	36	0	18.54	18.09	18.78			20.5
15	256QAM	36	20	18.82	18.87	18.78			
15	256QAM	36	39	18.06	18.04	18.84			
15	256QAM	75	0	18.01	18.09	18.83			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.93	23.95	23.98			25.5
10	QPSK	1	25	23.72	23.78	23.78			
10	QPSK	1	49	23.73	23.77	23.87			
10	QPSK	25	0	22.92	23.03	22.90			24.5
10	QPSK	25	12	22.95	22.88	22.84			
10	QPSK	25	26	22.98	22.95	22.89			
10	QPSK	50	0	22.95	22.89	22.82			
10	HQAM	1	0	23.28	23.25	23.32			24.5
10	HQAM	1	25	23.15	23.12	23.09			
10	HQAM	1	49	23.12	23.09	23.08			
10	HQAM	25	0	21.98	21.91	21.97			23.5
10	HQAM	25	12	22.04	21.96	21.92			
10	HQAM	25	26	21.96	21.87	21.90			
10	HQAM	50	0	21.01	21.86	21.82			23.5
10	HQAM	1	0	21.21	20.19	20.02			
10	HQAM	1	25	22.00	21.92	21.96			
10	HQAM	1	49	22.00	21.82	21.98			
10	HQAM	25	0	20.83	21.83	20.83			22.5
10	HQAM	25	12	21.02	20.99	20.94			
10	HQAM	25	26	20.98	20.85	20.88			
10	HQAM	50	0	20.98	20.89	20.88			20.5
10	256QAM	1	0	18.00	18.00	18.00			
10	256QAM	1	25	18.04	18.00	18.00			
10	256QAM	1	49	18.02	18.91	18.92			
10	256QAM	25	0	18.04	18.85	18.87			20.5
10	256QAM	25	12	18.03	18.09	18.83			
10	256QAM	25	26	18.04	18.93	18.84			
10	256QAM	50	0	18.00	18.92	18.91			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.97	23.98	23.98			25.5
5	QPSK	1	12	23.81	23.80	23.78			
5	QPSK	1	24	23.70	23.74	23.84			
5	QPSK	12	0	22.93	23.04	22.98			24.5
5	QPSK	12	7	22.94	22.91	22.84			
5	QPSK	12	13	22.93	22.84	22.83			
5	QPSK	24	0	22.90	22.90	22.86			
5	HQAM	1	0	23.27	23.23	23.28			24.5
5	HQAM	1	12	23.11	23.18	23.08			
5	HQAM	1	24	23.09	23.00	23.00			
5	HQAM	12	0	21.95	21.98	21.93			23.5
5	HQAM	12	13	22.04	21.80	21.80			
5	HQAM	12	13	21.98	21.90	21.89			
5	HQAM	24	0	21.97	21.96	21.96			23.5
5	HQAM	1	0	21.18	22.05	22.04			
5	HQAM	1	12	21.99	21.87	22.01			
5	HQAM	1	24	22.03	21.80	21.90			
5	HQAM	12	0	20.98	21.00	20.90			22.5
5	HQAM	12	7	21.02	20.89	20.88			
5	HQAM	12	13	21.00	20.86	20.83			
5	HQAM	24	0	21.00	20.92	20.85			
5	256QAM	1	0	18.01	18.79	18.02			20.5
5	256QAM	1	12	18.04	18.77	18.74			
5	256QAM	1	24	18.04	18.50	18.89			
5	256QAM	12	0	18.87	18.90	18.80			20.5
5	256QAM	12	7	18.88	18.88	18.88			
5	256QAM	12	13	18.86	18.88	18.88			
5	256QAM	24	0	18.04	18.93	18.83			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.99	23.93	23.98			25.5
3	QPSK	1	6	23.81	23.80	23.71			
3	QPSK	1	14	23.78	23.79	23.67			
3	QPSK	6	0	22.90	23.03	22.90			24.5
3	QPSK	6	4	22.98	22.91	22.85			
3	QPSK	6	7	22.89	22.80	22.83			
3	QPSK	12	0	22.91	22.97	22.85			
3	HQAM	1	0	23.32	23.24	23.24			24.5
3	HQAM	1	6	23.13	23.15	23.04			
3	HQAM	1	14	23.06	23.09	23.04			
3	HQAM	6	0	22.01	22.01	21.91			23.5
3	HQAM	6	4	21.95	21.95	21.83			
3	HQAM	6	7	21.05	21.06	21.04			
3	HQAM	12	0	21.92	21.84	21.83			23.5
3	HQAM	1	0	21.18	22.17	22.02			
3	HQAM	1	6	21.09	21.06	21.98			
3	HQAM	1	14	22.03	21.89	21.88			22.5
3	HQAM	6	0	20.81	20.97	20.82			
3	HQAM	6	4	20.99	20.92	20.93			
3	HQAM	6	7	20.95	20.76	20.88			
3	HQAM	12	0	21.06	20.92	20.86			20.5
3	256QAM	1	0	18.01	18.85	18.95			
3	256QAM	1	6	18.08	18.79	18.79			
3	256QAM	6	0	18.89	18.89	18.87			20.5



Band 5_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)	
Channel								
Frequency (MHz)								
ISD								
10	QPSK	1	0	2347	2347	2348	25	
10	QPSK	1	25	2351	2356	2353		
10	QPSK	1	49	2358	2353	2345		
10	QPSK	25	0	2263	2266	2263	24	
10	QPSK	25	12	2272	2267	2262		
10	QPSK	25	25	2288	2276	2284		
10	QPSK	50	0	2272	2266	2259	24	
10	QPSK	1	0	2291	2292	2297		
10	HQAM	1	25	2292	2298	2292		
10	HQAM	1	49	2298	2293	2293	23	
10	HQAM	25	0	2159	2165	2158		
10	HQAM	25	12	2171	2167	2163		
10	HQAM	25	25	2168	2171	2162	23	
10	HQAM	50	0	2176	2184	2182		
10	HQAM	1	25	2174	2171	2181		
10	HQAM	1	25	2158	2150	2175	22	
10	HQAM	1	49	2167	2163	2177		
10	HQAM	25	0	2064	2065	2066		
10	HQAM	25	12	2077	2072	2067	20	
10	HQAM	25	25	2071	2074	2045		
10	HQAM	50	0	2073	2069	2069		
10	SSBQAM	1	0	1848	1853	1858	20	
10	SSBQAM	1	25	1853	1850	1851		
10	SSBQAM	1	49	1850	1853	1854		
10	SSBQAM	25	0	1847	1848	1845	20	
10	SSBQAM	25	12	1848	1842	1839		
10	SSBQAM	25	25	1838	1848	1848		
10	SSBQAM	50	0	1851	1849	1844	20	
Channel								
Frequency (MHz)								
ISD								
5	QPSK	1	0	2361	2362	2360	25	
5	QPSK	1	25	2366	2363	2362		
5	QPSK	1	24	2357	2359	2353		
5	QPSK	12	0	2263	2273	2265	24	
5	QPSK	12	12	2276	2274	2258		
5	QPSK	12	12	2285	2287	2287		
5	QPSK	25	0	2268	2272	2258	24	
5	HQAM	1	0	2294	2291	2293		
5	HQAM	1	12	2292	2299	2284		
5	HQAM	1	24	2294	2298	2290	23	
5	HQAM	12	0	2187	2175	2187		
5	HQAM	12	7	2171	2177	2181		
5	HQAM	12	13	2166	2169	2154	23	
5	HQAM	25	0	2172	2174	2160		
5	HQAM	1	0	2188	2195	2186		
5	HQAM	1	24	2183	2190	2178	22	
5	HQAM	1	24	2188	2191	2199		
5	HQAM	12	0	2074	2080	2055		
5	HQAM	12	7	2078	2081	2059	20	
5	HQAM	12	13	2071	2075	2028		
5	HQAM	25	0	2073	2076	2033		
5	SSBQAM	1	0	1838	1838	1838	20	
5	SSBQAM	1	12	1859	1840	1853		
5	SSBQAM	1	24	1848	1848	1848		
5	SSBQAM	12	0	1840	1844	1840	20	
5	SSBQAM	12	7	1844	1837	1836		
5	SSBQAM	12	13	1835	1836	1846		
5	SSBQAM	25	0	1843	1845	1838	20	
Channel								
Frequency (MHz)								
ISD								
3	QPSK	1	0	2339	2347	2351	25	
3	QPSK	1	8	2349	2353	2348		
3	QPSK	8	0	2351	2351	2345		
3	QPSK	8	0	2355	2358	2358	24	
3	QPSK	8	4	2268	2258	2254		
3	QPSK	8	0	2263	2265	2259		
3	QPSK	16	0	2262	2260	2250	24	
3	HQAM	1	0	2291	2292	2290		
3	HQAM	1	8	2287	2297	2286		
3	HQAM	1	14	2294	2290	2273	23	
3	HQAM	8	4	2166	2169	2167		
3	HQAM	8	4	2184	2162	2163		
3	HQAM	8	7	2161	2166	2157	23	
3	HQAM	16	0	2166	2164	2152		
3	HQAM	1	0	2185	2187	2174		
3	HQAM	1	8	2178	2183	2169	22	
3	HQAM	1	14	2181	2179	2161		
3	HQAM	8	0	2081	2080	2081		
3	HQAM	8	4	2078	2072	2089	22	
3	HQAM	8	7	2083	2072	2041		
3	HQAM	16	0	2065	2059	2059		
3	SSBQAM	1	0	1848	1847	1849	20	
3	SSBQAM	1	14	1845	1843	1845		
3	SSBQAM	8	0	1836	1844	1836		
3	SSBQAM	8	4	1846	1837	1836	20	
3	SSBQAM	8	7	1834	1842	1843		
3	SSBQAM	16	0	1848	1844	1835		
Channel								
Frequency (MHz)								
ISD								
1.4	QPSK	1	0	2345	2352	2343	25	
1.4	QPSK	1	3	2354	2358	2348		
1.4	QPSK	1	5	2347	2351	2339		
1.4	QPSK	3	0	2353	2352	2347	24	
1.4	QPSK	3	1	2357	2352	2350		
1.4	QPSK	3	3	2353	2357	2348		
1.4	QPSK	6	0	2268	2264	2251	24	
1.4	HQAM	1	0	2279	2284	2278		
1.4	HQAM	1	5	2269	2264	2277		
1.4	HQAM	1	5	2282	2268	2272	24	
1.4	HQAM	3	0	2263	2264	2254		
1.4	HQAM	3	1	2266	2272	2260		
1.4	HQAM	3	1	2261	2263	2249	23	
1.4	HQAM	6	0	2184	2171	2158		
1.4	HQAM	1	3	2184	2181	2144		
1.4	HQAM	1	6	2178	2182	2139	23	
1.4	HQAM	3	0	2178	2174	2132		
1.4	HQAM	3	1	2178	2184	2144		
1.4	HQAM	3	1	2173	2175	2147	22	
1.4	HQAM	6	0	2059	2060	2030		
1.4	SSBQAM	1	0	1846	1860	1851		
1.4	SSBQAM	1	1	1846	1847	1851	20	
1.4	SSBQAM	1	5	1842	1853	1854		
1.4	SSBQAM	3	0	1845	1847	1841		
1.4	SSBQAM	3	1	1839	1832	1838	20	
1.4	SSBQAM	3	1	1834	1839	1841		
1.4	SSBQAM	6	0	1851	1840	1842		





Band 7_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (sec)		
Channel				2560	2880	2660			
Frequency (MHz)									
20	QPSK	1	0	23.87	23.84	23.99	25.5		
20	QPSK	1	49	23.93	23.99	23.94			
20	QPSK	1	99	23.99	24.06	24.02			
20	QPSK	64	0	22.07	22.02	22.02	24.5		
20	QPSK	50	24	23.10	23.09	23.08			
20	QPSK	50	50	23.11	23.16	23.13			
20	QPSK	100	0	22.07	22.07	22.05	24.5		
20	HQAM	1	0	23.27	23.30	23.29			
20	HQAM	1	49	23.29	23.28	23.38			
20	HQAM	1	99	23.33	23.40	23.34			
20	HQAM	50	0	21.08	22.04	22.02	23.5		
20	HQAM	50	24	22.10	22.10	22.06			
20	HQAM	50	50	22.13	22.17	22.14			
20	HQAM	100	0	22.08	22.07	22.03	23.5		
20	HQAM	1	0	22.04	22.11	22.10			
20	HQAM	1	49	22.10	22.26	22.21			
20	HQAM	1	99	22.24	22.32	22.27			
20	HQAM	50	0	21.08	21.08	21.05	22.5		
20	HQAM	50	24	21.12	21.11	21.08			
20	HQAM	50	50	21.15	21.21	21.15			
20	HQAM	100	0	21.12	21.05	21.07	20.5		
20	SSBQAM	1	0	19.20	19.27	19.13			
20	SSBQAM	1	49	19.20	19.16	19.22			
20	SSBQAM	1	99	19.12	19.17	19.11			
20	SSBQAM	50	0	19.12	19.12	19.07	20.5		
20	SSBQAM	50	24	19.22	19.14	19.10			
20	SSBQAM	50	50	19.17	19.16	19.13			
20	SSBQAM	100	0	19.23	19.11	19.05			
Channel				2675.5	2835	2662.5			
Frequency (MHz)									
15	QPSK	1	0	23.83	23.84	23.95	25.5		
15	QPSK	1	49	23.86	23.90	23.85			
15	QPSK	1	74	23.97	24.04	23.94			
15	QPSK	30	0	22.95	22.98	23.00	24.5		
15	QPSK	30	20	23.08	23.04	23.04			
15	QPSK	30	39	23.08	23.13	23.09			
15	QPSK	75	0	23.02	23.01	23.01	24.5		
15	HQAM	1	0	23.23	23.30	23.29			
15	HQAM	1	39	23.24	23.36	23.30			
15	HQAM	1	74	23.31	23.34	23.24	23.5		
15	HQAM	30	0	21.88	22.04	22.01			
15	HQAM	30	20	22.10	22.02	21.97			
15	HQAM	30	39	22.10	22.09	22.14	23.5		
15	HQAM	75	0	21.98	22.05	21.94			
15	HQAM	1	0	22.07	22.08	22.06	23.5		
15	HQAM	1	74	22.14	22.25	22.17			
15	HQAM	30	0	20.95	20.98	21.02			
15	HQAM	30	20	21.03	21.02	21.06	22.5		
15	HQAM	30	39	21.12	21.21	21.05			
15	HQAM	75	0	21.99	21.05	21.00	20.5		
15	SSBQAM	1	0	19.17	19.25	19.13			
15	SSBQAM	1	39	19.16	19.12	19.19			
15	SSBQAM	1	74	19.24	19.15	19.10	20.5		
15	SSBQAM	30	0	19.04	19.12	19.04			
15	SSBQAM	30	20	19.14	19.05	19.05			
15	SSBQAM	30	39	19.16	19.14	19.06	20.5		
15	SSBQAM	75	0	19.23	19.04	19.07			
Channel				2090	2100	2160			
Frequency (MHz)									
10	QPSK	1	0	23.89	23.92	23.99	25.5		
10	QPSK	1	25	23.93	23.90	23.84			
10	QPSK	1	49	23.96	24.01	23.96			
10	QPSK	25	0	22.91	22.99	22.97	24.5		
10	QPSK	25	12	23.07	23.06	23.00			
10	QPSK	25	25	23.03	23.09	23.03			
10	QPSK	50	0	22.99	23.06	23.01	24.5		
10	HQAM	1	0	23.17	23.24	23.26			
10	HQAM	1	25	23.27	23.34	23.35			
10	HQAM	1	49	23.31	23.39	23.31	23.5		
10	HQAM	25	0	21.02	22.00	21.95			
10	HQAM	25	12	22.07	22.08	22.06			
10	HQAM	25	25	22.08	22.10	22.07	23.5		
10	HQAM	50	0	22.02	22.04	22.00			
10	HQAM	1	0	22.00	22.13	22.10			
10	HQAM	1	25	22.06	22.16	22.18	22.5		
10	HQAM	1	49	22.14	22.31	22.25			
10	HQAM	25	0	20.91	21.02	20.96			
10	HQAM	25	12	21.04	21.04	21.02	22.5		
10	HQAM	25	25	21.08	21.14	21.09			
10	HQAM	50	0	21.10	21.05	21.02			
10	SSBQAM	1	0	19.15	19.19	19.10	20.5		
10	SSBQAM	1	25	19.20	19.07	19.22			
10	SSBQAM	1	49	19.19	19.09	19.03			
10	SSBQAM	25	0	19.03	19.05	19.06	20.5		
10	SSBQAM	25	12	19.21	19.07	19.09			
10	SSBQAM	25	25	19.16	19.08	19.08			
10	SSBQAM	50	0	19.18	19.04	19.09			
Channel				2077.5	2190	2162.5			
Frequency (MHz)									
5	QPSK	1	0	23.84	23.83	23.90	25.5		
5	QPSK	1	10	23.93	23.93	23.88			
5	QPSK	1	24	23.99	24.02	23.95			
5	QPSK	10	0	22.96	22.93	22.99	24.5		
5	QPSK	12	7	23.09	23.02	22.96			
5	QPSK	12	13	23.11	23.14	23.13			
5	QPSK	24	0	23.04	22.98	23.01	24.5		
5	HQAM	1	0	23.17	23.23	23.19			
5	HQAM	1	10	23.25	23.33	23.30			
5	HQAM	1	24	23.32	23.34	23.34	23.5		
5	HQAM	12	0	21.04	21.08	21.06			
5	HQAM	12	13	22.10	22.15	22.14			
5	HQAM	25	0	22.00	22.07	21.95	23.5		
5	HQAM	1	0	22.01	22.10	22.09			
5	HQAM	1	12	22.10	22.21	22.15			
5	HQAM	11	24	22.19	22.31	22.19	22.5		
5	HQAM	12	0	20.91	20.99	20.99			
5	HQAM	12	7	21.07	21.02	21.03			
5	HQAM	12	13	21.08	21.17	21.08	22.5		
5	HQAM	25	0	21.04	21.02	21.07			
5	SSBQAM	1	0	19.11	19.25	19.11	20.5		
5	SSBQAM	1	10	19.26	19.06	19.15			
5	SSBQAM	1	24	19.08	19.10	19.03			
5	SSBQAM	12	0	19.08	19.06	19.06	20.5		
5	SSBQAM	12	13	19.22	19.13	19.00			
5	SSBQAM	12	13	19.12	19.07	19.13			
5	SSBQAM	25	0	19.22	19.07	19.02			



Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel									
Frequency (MHz)									
				704	707.5	711			
10	QPSK	1	0	2448	2450	2459			
10	QPSK	1	26	2439	2442	2440			25.7
10	QPSK	1	49	2450	2443	2448			
10	QPSK	26	0	2353	2354	2353			
10	QPSK	26	12	2360	2353	2353			24.7
10	QPSK	26	25	2358	2359	2360			
10	QPSK	50	0	2381	2353	2353			
10	QPSK	1	0	2382	2376	2378			
10	HQAM	1	26	2381	2382	2380			24.7
10	HQAM	1	49	2387	2385	2378			
10	HQAM	26	0	2254	2255	2253			
10	HQAM	26	12	2261	2255	2254			23.7
10	HQAM	26	25	2259	2260	2257			
10	HQAM	50	0	2280	2255	2252			
10	HQAM	1	0	2254	2254	2262			
10	HQAM	1	26	2271	2276	2274			23.7
10	HQAM	1	49	2273	2254	2239			
10	HQAM	26	0	2127	2136	2136			
10	HQAM	26	12	2149	2155	2158			22.7
10	HQAM	26	25	2153	2160	2161			
10	HQAM	50	0	2141	2155	2159			
10	256QAM	1	0	1947	1986	1947			20.7
10	256QAM	1	26	1953	1973	1949			
10	256QAM	1	49	1964	1955	1937			
10	256QAM	26	0	1944	1946	1940			
10	256QAM	26	12	1945	1946	1946			20.7
10	256QAM	26	25	1939	1941	1943			
10	256QAM	50	0	1951	1943	1941			
Channel									
Frequency (MHz)									
				701.5	707.5	713.5			Turn-up (dBm)
5	QPSK	1	0	2448	2447	2439			
5	QPSK	1	26	2448	2448	2440			25.7
5	QPSK	1	24	2447	2449	2446			
5	QPSK	12	0	2362	2354	2355			
5	QPSK	12	6	2355	2359	2359			24.7
5	QPSK	12	12	2355	2354	2351			
5	QPSK	25	0	2358	2352	2352			
5	HQAM	1	0	2383	2383	2373			
5	HQAM	1	12	2380	2379	2373			24.7
5	HQAM	1	24	2382	2380	2376			
5	HQAM	12	0	2266	2262	2259			
5	HQAM	12	6	2258	2254	2254			23.7
5	HQAM	12	12	2265	2259	2254			
5	HQAM	25	0	2259	2253	2253			
5	HQAM	1	0	2224	2237	2286			
5	HQAM	1	0	2248	2274	2299			23.7
5	HQAM	1	24	2223	2273	2249			
5	HQAM	12	0	2135	2194	2160			
5	HQAM	12	6	2145	2187	2161			22.7
5	HQAM	12	12	2135	2180	2142			
5	HQAM	25	0	2111	2157	2150			
5	256QAM	1	0	1938	1936	1945			
5	256QAM	1	12	1950	1984	1939			20.7
5	256QAM	1	24	1952	1947	1954			
5	256QAM	12	0	1943	1938	1932			
5	256QAM	12	6	1938	1932	1945			20.7
5	256QAM	12	12	1938	1938	1934			
5	256QAM	25	0	1947	1933	1933			
Channel									
Frequency (MHz)									
				700.7	707.5	713.5			Turn-up (dBm)
3	QPSK	1	0	2448	2437	2433			
3	QPSK	1	6	2434	2442	2436			25.7
3	QPSK	6	0	2443	2433	2436			
3	QPSK	6	0	2343	2354	2348			
3	QPSK	6	4	2352	2349	2351			24.7
3	QPSK	6	2	2349	2358	2351			
3	QPSK	16	0	2358	2351	2345			
3	HQAM	1	0	2376	2386	2370			
3	HQAM	1	6	2376	2379	2372			24.7
3	HQAM	1	14	2385	2383	2380			
3	HQAM	6	0	2252	2251	2249			
3	HQAM	6	4	2260	2245	2242			23.7
3	HQAM	6	7	2250	2250	2254			
3	HQAM	16	0	2267	2250	2245			
3	HQAM	1	0	2247	2255	2267			23.7
3	HQAM	1	6	2266	2272	2274			
3	HQAM	1	14	2266	2248	2233			
3	HQAM	6	0	2117	2131	2155			
3	HQAM	6	4	2140	2152	2159			22.7
3	HQAM	6	7	2147	2153	2153			
3	HQAM	16	0	2131	2149	2150			
3	256QAM	1	0	1944	1957	1941			
3	256QAM	1	6	1949	1958	1948			20.7
3	256QAM	1	14	1958	1954	1949			
3	256QAM	6	0	1943	1936	1930			
3	256QAM	6	4	1943	1939	1943			20.7
3	256QAM	6	7	1937	1941	1942			
3	256QAM	16	0	1943	1937	1939			
Channel									
Frequency (MHz)									
				2444	2433	2435			Turn-up (dBm)
1.4	QPSK	1	0	2444	2433	2435			
1.4	QPSK	1	3	2444	2442	2438			25.7
1.4	QPSK	1	5	2437	2436	2429			
1.4	QPSK	3	0	2442	2438	2437			
1.4	QPSK	3	1	2449	2442	2440			
1.4	QPSK	3	2	2443	2443	2437			24.7
1.4	QPSK	6	0	2359	2347	2343			
1.4	HQAM	1	0	2376	2387	2371			
1.4	HQAM	1	3	2376	2386	2377			24.7
1.4	HQAM	1	5	2370	2369	2363			
1.4	HQAM	3	0	2353	2347	2347			
1.4	HQAM	3	0	2366	2351	2350			23.7
1.4	HQAM	3	1	2351	2350	2343			
1.4	HQAM	6	0	2257	2256	2249			
1.4	HQAM	1	0	2234	2261	2237			23.7
1.4	HQAM	1	3	2245	2272	2234			
1.4	HQAM	1	6	2247	2263	2220			
1.4	HQAM	3	0	2228	2256	2239			
1.4	HQAM	3	1	2228	2261	2237			
1.4	HQAM	6	0	2123	2150	2123			22.7
1.4	256QAM	1	0	1938	1958	1939			
1.4	256QAM	1	3	1945	1971	1941			
1.4	256QAM	1	5	1951	1954	1953			20.7
1.4	256QAM	3	0	1943	1943	1936			
1.4	256QAM	3	0	1938	1942	1937			
1.4	256QAM	3	1	1939	1931	1938			
1.4	256QAM	6	0	1949	1937	1939			20.7



Band 13_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel				782		
Frequency (MHz)						
10	QPSK	1	0	2153		
10	QPSK	1	25	2151		
10	QPSK	1	49	2157		
10	QPSK	25	0	2240		
10	QPSK	25	12	2241		
10	QPSK	25	25	2245		
10	QPSK	50	0	2251		
10	16QAM	1	0	2282		
10	16QAM	1	25	2286		
10	16QAM	1	49	2288		
10	16QAM	25	0	2151		
10	16QAM	25	12	2156		
10	16QAM	25	25	2160		
10	16QAM	50	0	2194		
10	16QAM	1	0	2190		
10	16QAM	1	25	2151		
10	16QAM	1	49	2178		
10	16QAM	25	0	2095		
10	16QAM	25	12	2089		
10	16QAM	25	25	2071		
10	16QAM	50	0	2088		
10	256QAM	1	0	1825		
10	256QAM	1	25	1850		
10	256QAM	1	49	1870		
10	256QAM	25	0	1841		
10	256QAM	25	12	1846		
10	256QAM	25	25	1859		
10	256QAM	50	0	1844		
Channel				2305	2305	2305
Frequency (MHz)						
5	QPSK	1	0	2345	2348	2322
5	QPSK	1	25	2350	2354	2334
5	QPSK	1	24	2355	2356	2331
5	QPSK	12	0	2258	2259	2232
5	QPSK	12	12	2262	2263	2240
5	QPSK	12	13	2265	2267	2238
5	QPSK	25	0	2285	2283	2237
5	16QAM	1	0	2284	2278	2250
5	16QAM	1	12	2275	2282	2249
5	16QAM	1	24	2284	2288	2251
5	16QAM	12	0	2182	2184	2136
5	16QAM	12	7	2188	2184	2143
5	16QAM	12	13	2184	2171	2142
5	16QAM	25	0	2170	2163	2141
5	16QAM	1	0	2173	2168	2142
5	16QAM	1	25	2168	2161	2148
5	16QAM	1	24	2177	2181	2148
5	16QAM	12	0	2086	2070	2043
5	16QAM	12	7	2072	2067	2045
5	16QAM	12	13	2071	2075	2043
5	16QAM	25	0	2073	2066	2042
5	16QAM	1	0	1816	1824	1822
5	256QAM	1	12	1843	1845	1847
5	256QAM	1	24	1865	1867	1866
5	256QAM	12	0	1837	1835	1838
5	256QAM	12	7	1848	1836	1840
5	256QAM	12	13	1838	1835	1834
5	256QAM	25	0	1837	1834	1841



Band 14_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
700						
10	QPSK	1	0	23.68		
10	QPSK	1	25	23.60		
10	QPSK	1	49	23.58		
10	QPSK	25	0	22.63		
10	QPSK	25	12	22.65		
10	QPSK	25	25	22.74		
10	QPSK	50	0	22.97		
10	16QAM	1	0	23.92		
10	16QAM	1	25	22.90		
10	16QAM	1	49	22.97		
10	16QAM	25	0	21.85		
10	16QAM	25	12	21.88		
10	16QAM	25	25	21.73		
10	16QAM	50	0	21.88		
10	16QAM	1	0	21.90		
10	16QAM	1	25	21.95		
10	16QAM	1	49	21.90		
10	16QAM	25	0	20.87		
10	16QAM	25	12	20.89		
10	16QAM	25	25	20.76		
10	16QAM	50	0	20.87		
10	256QAM	1	0	18.45		
10	256QAM	1	25	18.50		
10	256QAM	1	49	18.74		
10	256QAM	25	0	18.50		
10	256QAM	25	12	18.44		
10	256QAM	25	25	18.47		
10	256QAM	50	0	18.50		
Channel						
Frequency (MHz)						
700.5						
700						
700.5						
5	QPSK	1	0	23.58	23.55	23.58
5	QPSK	1	25	23.63	23.66	23.64
5	QPSK	1	49	23.65	23.64	23.58
5	QPSK	12	0	22.71	22.65	22.84
5	QPSK	12	12	22.76	22.73	22.70
5	QPSK	12	13	22.71	22.73	22.88
5	QPSK	25	0	22.89	22.86	22.83
5	16QAM	1	0	22.91	22.92	22.97
5	16QAM	1	12	23.00	23.02	22.98
5	16QAM	1	25	22.98	23.00	22.90
5	16QAM	12	0	21.73	21.68	21.64
5	16QAM	12	7	21.77	21.77	21.78
5	16QAM	12	13	21.73	21.72	21.86
5	16QAM	25	0	21.71	21.68	21.64
5	16QAM	1	0	21.87	21.89	21.85
5	16QAM	1	25	21.93	22.00	21.94
5	16QAM	1	49	21.90	21.95	21.92
5	16QAM	12	0	20.80	20.71	20.89
5	16QAM	12	7	20.78	20.83	20.75
5	16QAM	12	13	20.75	20.76	20.89
5	16QAM	25	0	20.72	20.87	20.89
5	256QAM	1	0	18.38	18.37	18.42
5	256QAM	1	12	18.55	18.48	18.55
5	256QAM	1	25	18.74	18.72	18.65
5	256QAM	12	0	18.50	18.42	18.48
5	256QAM	12	7	18.38	18.34	18.35
5	256QAM	12	13	18.47	18.46	18.30
5	256QAM	25	0	18.40	18.47	18.44



Band 17_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)	
Channel				700	710	711		
Frequency (MHz)				2430	2490	2550		
10	QPSK	1	0	2436	2436	2436	25	
10	QPSK	1	25	2436	2437	2437		
10	QPSK	1	49	2437	2445	2438		
10	QPSK	25	0	2438	2438	2441	24	
10	QPSK	25	12	2438	2450	2448		
10	QPSK	25	25	2439	2457	2455		
10	QPSK	50	0	2447	2448	2445	24	
10	HQAM	1	0	2470	2488	2489		
10	HQAM	1	25	2475	2478	2474		
10	HQAM	1	49	2478	2480	2477	23	
10	HQAM	25	0	2441	2441	2441		
10	HQAM	25	12	2455	2448	2447		
10	HQAM	25	25	2457	2454	2451	23	
10	HQAM	50	0	2444	2448	2442		
10	HQAM	1	0	2455	2454	2450		
10	HQAM	1	25	2457	2459	2458	23	
10	HQAM	1	49	2453	2460	2448		
10	HQAM	25	0	2043	2043	2044		
10	HQAM	25	12	2049	2051	2051	22	
10	HQAM	25	25	2050	2058	2058		
10	HQAM	50	0	2049	2047	2045		
10	256QAM	1	0	1834	1839	1822	20	
10	256QAM	1	25	1843	1840	1841		
10	256QAM	1	49	1854	1847	1838		
10	256QAM	25	0	1831	1827	1830	20	
10	256QAM	25	12	1835	1846	1834		
10	256QAM	25	25	1840	1837	1839		
10	256QAM	50	0	1827	1840	1831	20	
Channel				2430	2490	2490		Time-up (ms)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	2433	2438	2427		
5	QPSK	1	49	2443	2442	2430	25	
5	QPSK	1	24	2443	2444	2440		
5	QPSK	12	0	2244	2246	2241		
5	QPSK	12	12	2251	2248	2243	24	
5	QPSK	12	13	2253	2252	2245		
5	QPSK	25	0	2249	2247	2242		
5	HQAM	1	0	2266	2267	2266	24	
5	HQAM	1	12	2274	2278	2270		
5	HQAM	1	24	2278	2278	2275		
5	HQAM	12	0	2148	2147	2146	23	
5	HQAM	12	7	2153	2152	2145		
5	HQAM	12	13	2154	2152	2147		
5	HQAM	25	0	2151	2148	2144	23	
5	HQAM	1	0	2167	2166	2163		
5	HQAM	1	49	2166	2170	2164		
5	HQAM	1	24	2179	2178	2167	22	
5	HQAM	12	0	2050	2049	2047		
5	HQAM	12	7	2057	2055	2051		
5	HQAM	12	13	2057	2058	2052	20	
5	HQAM	25	0	2051	2049	2044		
5	256QAM	1	0	1825	1831	1816		
5	256QAM	1	12	1840	1845	1842	20	
5	256QAM	1	24	1852	1839	1837		
5	256QAM	12	7	1828	1833	1830		
5	256QAM	12	13	1836	1837	1837	20	
5	256QAM	25	0	1820	1830	1831		





Band 26_Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up (dBm)				
Channel				26765	26865	26965					
Frequency (MHz)				831.5	831.5	831.5					
15	QPSK	1	0	2340	2340	2341	25				
15	QPSK	1	37	2348	2348	2341					
15	QPSK	1	74	2351	2348	2333					
15	QPSK	36	0	2263	2264	2251	24				
15	QPSK	36	20	2261	2263	2255					
15	QPSK	36	39	2262	2262	2254					
15	QPSK	72	0	2268	2264	2237	24				
15	HQAM	1	0	2287	2279	2278					
15	HQAM	1	37	2278	2278	2276					
15	HQAM	74	0	2274	2274	2264	23				
15	HQAM	38	0	2161	2160	2159					
15	HQAM	36	20	2154	2154	2150					
15	HQAM	36	39	2161	2162	2158	23				
15	HQAM	72	0	2198	2194	2159					
15	HQAM	1	0	2173	2174	2168					
15	HQAM	1	37	2171	2174	2168	22				
15	HQAM	1	74	2173	2168	2168					
15	HQAM	36	0	2038	2063	2065					
15	HQAM	36	20	2032	2069	2066	20				
15	HQAM	36	39	2035	2068	2048					
15	HQAM	72	0	2037	2066	2058					
15	256QAM	1	0	1854	1853	1858	20				
15	256QAM	1	37	1859	1853	1850					
15	256QAM	74	0	1850	1857	1849					
15	256QAM	38	0	1848	1850	1850	20				
15	256QAM	36	20	1847	1847	1838					
15	256QAM	36	39	1837	1841	1842					
15	256QAM	72	0	1848	1851	1839	Turn-up (dBm)				
Channel				26765	26865	26965					
Frequency (MHz)				839	831.5	841					
10	QPSK	1	0	2334	2339	2343	25				
10	QPSK	1	26	2338	2340	2342					
10	QPSK	1	49	2342	2349	2329					
10	QPSK	26	0	2259	2255	2255	24				
10	QPSK	26	26	2263	2260	2250					
10	QPSK	26	26	2262	2267	2249					
10	QPSK	50	0	2264	2264	2253	24				
10	HQAM	1	0	2282	2278	2273					
10	HQAM	1	26	2276	2273	2273					
10	HQAM	1	49	2273	2271	2268	23				
10	HQAM	25	0	2167	2169	2167					
10	HQAM	25	12	2157	2158	2153					
10	HQAM	26	26	2167	2162	2164	23				
10	HQAM	50	0	2169	2163	2150					
10	HQAM	1	0	2173	2162	2168					
10	HQAM	1	26	2168	2174	2159	23				
10	HQAM	1	49	2171	2160	2168					
10	HQAM	25	0	2022	2060	2061					
10	HQAM	25	12	2044	2067	2057	22				
10	HQAM	25	25	2057	2062	2042					
10	HQAM	50	0	2062	2059	2051					
10	256QAM	1	0	1851	1849	1855	20				
10	256QAM	1	25	1849	1847	1847					
10	256QAM	49	0	1841	1845	1843					
10	256QAM	25	12	1848	1845	1830	20				
10	256QAM	25	25	1835	1840	1842					
10	256QAM	50	0	1845	1841	1837					
Channel				26765	26865	27015	Turn-up (dBm)				
Frequency (MHz)				831.5	831.5	847.5					
5	QPSK	1	0	2353	2340	2347	25				
5	QPSK	1	12	2337	2344	2335					
5	QPSK	1	24	2358	2342	2339					
5	QPSK	12	0	2280	2255	2257	24				
5	QPSK	12	7	2257	2258	2253					
5	QPSK	12	14	2260	2252	2256					
5	QPSK	24	0	2262	2264	2248	24				
5	HQAM	1	0	2287	2278	2274					
5	HQAM	1	12	2273	2279	2272					
5	HQAM	1	24	2264	2267	2258	23				
5	HQAM	12	0	2167	2158	2149					
5	HQAM	12	7	2159	2161	2147					
5	HQAM	12	14	2158	2160	2153	23				
5	HQAM	24	0	2164	2164	2157					
5	HQAM	1	0	2172	2160	2163					
5	HQAM	1	12	2169	2171	2168	23				
5	HQAM	1	24	2171	2159	2168					
5	HQAM	12	0	2020	2054	2057					
5	HQAM	12	7	2046	2060	2052	22				
5	HQAM	12	14	2069	2067	2048					
5	HQAM	24	0	2065	2057	2057					
5	256QAM	1	0	1854	1848	1848	20				
5	256QAM	1	12	1859	1848	1842					
5	256QAM	1	24	1849	1858	1830					
5	256QAM	12	0	1845	1841	1845	20				
5	256QAM	12	7	1845	1839	1829					
5	256QAM	12	14	1827	1841	1838					
5	256QAM	24	0	1848	1843	1838	Turn-up (dBm)				
Channel				26765	26865	27015					
Frequency (MHz)				831.5	831.5	847.5					
3	QPSK	1	0	2347	2344	2346	25				
3	QPSK	1	8	2341	2346	2334					
3	QPSK	1	14	2351	2344	2327					
3	QPSK	8	0	2262	2259	2249	24				
3	QPSK	8	4	2262	2258	2250					
3	QPSK	8	7	2258	2258	2256					
3	QPSK	16	0	2260	2264	2251	24				
3	HQAM	1	0	2277	2277	2272					
3	HQAM	1	8	2276	2269	2270					
3	HQAM	1	14	2271	2268	2262	24				
3	HQAM	8	0	2154	2157	2156					
3	HQAM	8	4	2154	2160	2152					
3	HQAM	8	7	2151	2154	2152	23				
3	HQAM	16	0	2164	2156	2153					
3	HQAM	1	0	2165	2156	2168					
3	HQAM	1	8	2189	2173	2183	23				
3	HQAM	1	14	2173	2163	2166					
3	HQAM	8	0	2029	2058	2060					
3	HQAM	8	4	2044	2063	2053	22				
3	HQAM	8	7	2060	2060	2059					
3	HQAM	16	0	2051	2055	2058					
3	256QAM	1	0	1857	1849	1858	20				
3	256QAM	1	8	1859	1849	1848					
3	256QAM	1	14	1841	1858	1838					
3	256QAM	8	0	1844	1850	1845	20				
3	256QAM	8	4	1846	1843	1833					
3	256QAM	8	7	1835	1838	1832					
3	256QAM	16	0	1848	1848	1833	Turn-up (dBm)				
Channel				26765	26865	27015					
Frequency (MHz)				814.7	831.5	846.5					
1.4	QPSK	1	0	2357	2342	2341	25				
1.4	QPSK	1	6	2358	2354	2349					
1.4	QPSK	1	6	2353	2344	2331					
1.4	QPSK	3	0	2359	2345	2341	24				
1.4	QPSK	3	6	2357	2352	2348					
1.4	QPSK	3	3	2359	2349	2344					
1.4	QPSK	6	0	2267	2267	2246	24				
1.4	HQAM	1	0	2292	2282	2289					
1.4	HQAM	1	3	2295	2284	2274					
1.4	HQAM	3	0	2288	2274	2281	24				
1.4	HQAM	3	0	2270	2257	2249					
1.4	HQAM	3	1	2277	2262	2252					
1.4	HQAM	3	0	2268	2260	2244	23				
1.4	HQAM	6	0	2171	2185	2151					
1.4	HQAM	1	0	2144	2174	2152					
1.4	HQAM	1	0	2169	2162	2169	23				
1.4	HQAM	1	6	2144	2174	2152					
1.4	HQAM	3	0	2146	2168	2150					
1.4	HQAM	13	0	2155	2173	2168	22				
1.4	HQAM	3	3	2144	2171	2157					
1.4	HQAM	3	0	2027	2061	2050					
1.4	256QAM	1	0	1853	1851	1855	20				
1.4	256QAM	1	3	1858	1847	1850					
1.4	256QAM	3	0	1848	1848	1849					
1.4	256QAM	3	1	1838	1844	1830	20				
1.4	256QAM	3	0	1830	1835	1839					
1.4	256QAM	6	0	1844	1843	1838					



Band 30							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.87			25.7
10	QPSK	1	25	23.88			
10	QPSK	1	49	23.85			
10	QPSK	25	0	22.90			24.7
10	QPSK	25	12	22.94			
10	QPSK	25	25	22.96			
10	QPSK	50	0	22.94			24.7
10	16QAM	1	0	23.21			
10	16QAM	1	25	23.25			
10	16QAM	1	49	23.23			23.7
10	16QAM	25	0	21.88			
10	16QAM	25	12	21.97			
10	16QAM	25	25	21.94			23.7
10	16QAM	50	0	21.93			
10	16QAM	1	0	22.90			
10	16QAM	1	25	22.17			22.7
10	16QAM	1	49	22.02			
10	16QAM	25	0	20.92			
10	16QAM	25	12	21.82			22.7
10	16QAM	25	25	20.95			
10	16QAM	50	0	20.98			
10	256QAM	1	0	19.20			20.7
10	256QAM	1	25	19.23			
10	256QAM	1	49	19.13			
10	256QAM	25	0	18.96			20.7
10	256QAM	25	12	19.06			
10	256QAM	25	25	19.03			
10	256QAM	50	0	19.03			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.75	23.79	23.86	25.7
5	QPSK	1	25	23.82	23.86	23.90	
5	QPSK	1	24	23.85	23.87	23.79	
5	QPSK	12	0	22.87	22.89	22.94	24.7
5	QPSK	12	12	22.98	22.94	22.98	
5	QPSK	12	13	22.89	22.83	22.86	
5	QPSK	25	0	22.97	22.94	22.96	24.7
5	16QAM	1	0	23.07	23.10	23.17	
5	16QAM	1	12	23.18	23.17	23.13	
5	16QAM	1	24	23.24	23.18	23.29	23.7
5	16QAM	12	0	22.01	21.98	22.00	
5	16QAM	12	12	22.01	21.95	21.96	
5	16QAM	25	0	21.98	21.94	21.94	23.7
5	16QAM	1	0	22.03	22.08	21.87	
5	16QAM	1	24	22.16	22.14	21.97	
5	16QAM	1	24	22.16	22.09	21.83	22.7
5	16QAM	12	0	20.94	20.96	20.93	
5	16QAM	12	12	21.05	21.02	20.95	
5	16QAM	12	13	21.05	20.96	20.95	20.7
5	16QAM	25	0	21.01	21.00	20.81	
5	256QAM	1	0	19.11	19.19	19.16	
5	256QAM	1	12	19.21	19.19	19.22	20.7
5	256QAM	1	24	19.06	19.05	19.07	
5	256QAM	12	0	18.93	18.98	19.00	
5	256QAM	12	7	18.99	19.06	18.96	20.7
5	256QAM	12	13	19.03	18.93	18.99	
5	256QAM	25	0	19.03	18.96	19.01	







Band 71									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel									
Frequency (MHz)									
				693	693	698			
20	QPSK	1	0	2348	2348	2337		25	
20	QPSK	1	49	2342	2341	2337			
20	QPSK	1	99	2336	2339	2338			
20	QPSK	60	0	2297	2298	2248		24	
20	QPSK	50	24	2254	2249	2248			
20	QPSK	50	50	2258	2251	2250			
20	QPSK	100	0	2251	2252	2248			
20	16QAM	1	0	2288	2282	2274		24	
20	16QAM	1	49	2277	2277	2276			
20	16QAM	1	99	2271	2272	2271			
20	16QAM	50	0	2159	2153	2148		23	
20	16QAM	50	24	2161	2161	2149			
20	16QAM	50	50	2158	2153	2150			
20	16QAM	100	0	2159	2148	2148			
20	16QAM	1	49	2173	2167	2163		23	
20	16QAM	1	99	2159	2163	2160			
20	16QAM	50	0	2059	2056	2047		22	
20	16QAM	50	24	2083	2054	2051			
20	16QAM	50	50	2080	2056	2053			
20	16QAM	100	0	2081	2052	2049			
20	256QAM	1	0	1858	1844	1837		20	
20	256QAM	1	49	1857	1832	1846			
20	256QAM	1	99	1846	1845	1848			
20	256QAM	50	0	1847	1843	1830		20	
20	256QAM	50	24	1841	1835	1829			
20	256QAM	50	50	1835	1835	1827			
20	256QAM	100	0	1843	1836	1829			
Channel									
Frequency (MHz)									
				670.5	680.5	690.5		Turn-up (dBm)	
15	QPSK	1	0	2341	2346	2329		25	
15	QPSK	1	49	2340	2337	2330			
15	QPSK	1	74	2325	2332	2327			
15	QPSK	30	0	2249	2248	2241		24	
15	QPSK	30	20	2250	2245	2240			
15	QPSK	30	39	2247	2241	2244			
15	QPSK	75	0	2247	2245	2242			
15	16QAM	1	0	2280	2282	2271		24	
15	16QAM	1	39	2275	2267	2268			
15	16QAM	1	74	2268	2270	2270			
15	16QAM	30	0	2153	2153	2144		23	
15	16QAM	30	20	2156	2142	2144			
15	16QAM	30	39	2148	2151	2146			
15	16QAM	75	0	2153	2141	2144			
15	16QAM	1	0	2166	2157	2162		23	
15	16QAM	1	39	2158	2151	2155			
15	16QAM	1	74	2150	2158	2160			
15	16QAM	30	0	2047	2049	2042		22	
15	16QAM	30	20	2052	2054	2050			
15	16QAM	30	39	2052	2054	2050			
15	16QAM	75	0	2058	2048	2049			
15	256QAM	1	0	1853	1840	1855		20	
15	256QAM	1	39	1852	1831	1843			
15	256QAM	1	74	1846	1835	1847			
15	256QAM	30	0	1843	1840	1834		20	
15	256QAM	30	20	1838	1835	1823			
15	256QAM	30	39	1830	1830	1822			
15	256QAM	75	0	1839	1833	1819			
Channel									
Frequency (MHz)									
				13112	13272	13442		Turn-up (dBm)	
5	QPSK	1	0	2341	2345	2331		25	
5	QPSK	1	10	2338	2341	2331			
5	QPSK	1	24	2328	2338	2329			
5	QPSK	10	0	2250	2255	2238		24	
5	QPSK	12	7	2245	2243	2230			
5	QPSK	12	13	2250	2244	2248			
5	QPSK	24	0	2243	2244	2242			
5	16QAM	1	0	2279	2277	2265		24	
5	16QAM	1	10	2270	2274	2267			
5	16QAM	1	24	2262	2269	2262			
5	16QAM	12	0	2149	2152	2146		23	
5	16QAM	12	13	2154	2146	2140			
5	16QAM	12	13	2149	2148	2149			
5	16QAM	25	0	2153	2139	2146		23	
5	16QAM	1	10	2173	2160	2158			
5	16QAM	1	10	2182	2188	2185			
5	16QAM	11	24	2159	2160	2159			
5	16QAM	10	0	2048	2047	2043		22	
5	16QAM	12	7	2061	2053	2049			
5	16QAM	12	13	2059	2054	2049			
5	16QAM	25	0	2059	2052	2047			
5	256QAM	1	0	1855	1838	1849		20	
5	256QAM	1	10	1857	1832	1846			
5	256QAM	1	24	1842	1841	1848			
5	256QAM	12	0	1847	1835	1832		20	
5	256QAM	12	13	1840	1832	1827			
5	256QAM	12	13	1830	1826	1820			
5	256QAM	25	0	1834	1827	1822			



Band 2_Ant 2						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Time-up limit (min)
Channel						
Frequency (MHz)						
1800 1800 1800						
20	QPSK	1	0	22.87	22.87	23.17
20	QPSK	1	49	22.84	22.97	23.13
20	QPSK	1	99	22.93	23.03	23.10
20	QPSK	64	0	22.85	23.04	23.12
20	QPSK	50	24	23.04	23.06	23.18
20	QPSK	50	50	23.01	23.18	23.26
20	QPSK	100	0	23.02	23.13	23.19
20	HQAM	1	0	23.09	23.26	23.42
20	HQAM	1	49	23.11	23.33	23.29
20	HQAM	1	99	23.05	23.33	23.35
20	HQAM	50	0	23.61	23.72	23.81
20	HQAM	50	24	23.75	23.77	23.90
20	HQAM	50	50	23.79	23.62	23.97
20	HQAM	100	0	23.74	23.77	23.84
20	HQAM	1	0	23.80	23.86	23.96
20	HQAM	1	49	23.04	23.79	23.50
20	HQAM	1	99	23.14	23.98	23.14
20	HQAM	50	0	23.64	23.81	23.92
20	HQAM	50	24	23.76	23.83	23.69
20	HQAM	50	50	23.66	23.90	23.24
20	HQAM	100	0	23.67	23.78	23.33
20	SRQAM	1	0	19.92	19.95	19.87
20	SRQAM	1	49	19.84	19.71	19.72
20	SRQAM	1	99	19.88	19.73	19.89
20	SRQAM	50	0	19.85	19.51	19.51
20	SRQAM	50	24	19.87	19.56	19.56
20	SRQAM	50	50	19.51	19.73	19.75
20	SRQAM	100	0	19.62	19.64	19.71
Channel						
Frequency (MHz)						
1802.5 1800 1802.5						
15	QPSK	1	0	22.87	22.86	23.14
15	QPSK	1	49	22.80	22.86	23.10
15	QPSK	1	74	22.84	23.01	23.01
15	QPSK	36	0	22.80	22.95	23.12
15	QPSK	36	24	23.00	22.97	23.10
15	QPSK	36	39	23.01	23.12	23.26
15	QPSK	75	0	22.95	23.01	23.14
15	HQAM	1	0	22.99	23.26	23.35
15	HQAM	1	37	23.03	23.27	23.22
15	HQAM	1	74	23.15	23.24	23.33
15	HQAM	36	0	22.98	23.21	23.78
15	HQAM	36	24	22.71	22.73	22.82
15	HQAM	36	39	22.71	22.84	22.84
15	HQAM	75	0	22.74	22.69	22.52
15	HQAM	1	0	22.99	22.79	22.93
15	HQAM	1	49	23.00	22.75	23.75
15	HQAM	1	74	23.10	22.90	22.67
15	HQAM	36	0	23.83	23.77	23.12
15	HQAM	36	24	23.69	23.83	20.99
15	HQAM	36	39	23.66	23.83	21.15
15	HQAM	75	0	23.62	23.72	23.03
15	SRQAM	1	0	19.87	19.47	19.84
15	SRQAM	1	37	19.50	19.84	19.86
15	SRQAM	1	74	19.51	19.44	19.44
15	SRQAM	36	0	19.81	19.58	19.80
15	SRQAM	36	24	19.69	19.73	19.75
15	SRQAM	75	0	19.50	19.52	19.83
Channel						
Frequency (MHz)						
1805 1800 1810						
10	QPSK	1	0	22.83	22.81	23.13
10	QPSK	1	25	22.81	22.90	23.03
10	QPSK	1	49	22.85	22.93	23.03
10	QPSK	25	0	22.82	22.97	23.09
10	QPSK	25	12	23.00	22.98	23.11
10	QPSK	25	25	23.01	23.10	23.20
10	QPSK	64	0	22.95	22.95	23.15
10	HQAM	1	0	22.97	23.26	23.34
10	HQAM	1	25	23.01	23.30	23.29
10	HQAM	1	49	23.21	23.33	23.30
10	HQAM	25	0	22.66	22.66	22.76
10	HQAM	25	12	22.69	22.72	22.84
10	HQAM	25	25	22.78	22.82	22.89
10	HQAM	50	0	22.73	22.75	22.76
10	HQAM	1	0	22.97	22.73	22.66
10	HQAM	1	25	22.99	22.69	23.72
10	HQAM	1	49	22.97	22.97	22.97
10	HQAM	25	0	23.55	23.71	23.17
10	HQAM	25	12	23.76	23.78	23.09
10	HQAM	25	25	23.62	23.86	23.15
10	HQAM	50	0	23.60	23.70	23.04
10	SRQAM	1	0	19.87	19.87	19.87
10	SRQAM	1	25	19.53	19.52	19.52
10	SRQAM	1	49	19.85	19.69	19.85
10	SRQAM	25	0	19.81	19.47	19.63
10	SRQAM	25	12	19.50	19.57	19.83
10	SRQAM	25	25	19.51	19.65	19.71
10	SRQAM	50	0	19.49	19.47	19.68
Channel						
Frequency (MHz)						
1807.5 1800 1817.5						
5	QPSK	1	0	22.74	22.41	23.13
5	QPSK	1	12	22.77	22.84	23.06
5	QPSK	1	24	22.91	22.93	23.09
5	QPSK	12	0	22.82	23.01	23.05
5	QPSK	12	7	22.84	22.96	23.14
5	QPSK	12	19	22.91	23.12	23.25
5	QPSK	24	0	22.92	23.03	23.11
5	HQAM	1	0	23.00	23.22	23.41
5	HQAM	1	12	23.04	23.36	23.23
5	HQAM	1	24	23.19	23.27	23.31
5	HQAM	12	0	22.99	22.70	22.73
5	HQAM	12	7	22.73	22.71	22.90
5	HQAM	12	19	22.74	22.90	22.96
5	HQAM	24	0	22.74	22.75	22.79
5	HQAM	1	0	22.99	22.72	22.88
5	HQAM	1	12	22.85	22.78	23.78
5	HQAM	1	24	23.04	22.96	23.13
5	HQAM	12	0	23.62	23.72	23.15
5	HQAM	12	7	23.74	23.83	23.09
5	HQAM	24	0	23.68	23.68	23.15
5	HQAM	24	12	23.55	23.68	23.09
5	SRQAM	1	0	19.89	19.53	19.67
5	SRQAM	1	12	19.48	19.60	19.70
5	SRQAM	1	24	19.51	19.69	19.79
5	SRQAM	12	0	19.81	19.44	19.49
5	SRQAM	12	7	19.63	19.58	19.58
5	SRQAM	12	19	19.59	19.66	19.75
5	SRQAM	24	0	19.48	19.47	19.64
Channel						
Frequency (MHz)						
1809.5 1800 1819.5						
1.4	QPSK	1	0	22.87	22.78	23.12
1.4	QPSK	1	3	22.88	22.99	23.10
1.4	QPSK	3	0	22.81	22.93	23.03
1.4	QPSK	3	0	22.80	22.92	23.07
1.4	QPSK	3	1	22.87	23.04	23.07
1.4	QPSK	3	1	22.82	22.97	23.07
1.4	QPSK	6	0	22.84	22.97	23.11
1.4	HQAM	1	0	22.86	23.14	23.31
1.4	HQAM	1	3	23.09	23.21	23.32
1.4	HQAM	1	5	22.98	23.14	23.24
1.4	HQAM	3	0	22.85	23.02	23.15
1.4	HQAM	3	1	22.89	23.13	23.22
1.4	HQAM	3	2	22.85	23.10	23.13
1.4	HQAM	6	0	22.84	23.11	23.85
1.4	HQAM	1	0	22.84	22.72	22.25
1.4	HQAM	1	3	22.86	22.86	22.84
1.4	HQAM	1	5	22.81	22.79	22.29
1.4	HQAM	3	0	22.55	22.70	22.38
1.4	HQAM	3	1	22.55	22.65	22.39
1.4	HQAM	3	2	22.58	22.72	22.34
1.4	HQAM	6	0	23.59	23.68	23.40
1.4	SRQAM	1	0	19.77	19.41	19.65
1.4	SRQAM	1	3	19.50	19.60	19.54
1.4	SRQAM	1	5	19.73	19.62	19.70
1.4	SRQAM	3	0	19.80	19.41	19.41
1.4	SRQAM	3	1	19.48	19.60	19.65
1.4	SRQAM	3	2	19.54	19.70	19.71
1.4	SRQAM	6	0	19.45	19.44	19.87





Band 5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up time (min)		
Channel				ISO	ISO	ISO			
Frequency (MHz)				ISO	ISO	ISO			
10	QPSK	1	0	2448	2454	2460			
10	QPSK	1	25	2448	2452	2456			25.7
10	QPSK	1	49	2448	2448	2443			
10	QPSK	25	0	2358	2364	2370			
10	QPSK	25	12	2359	2365	2371			24.7
10	QPSK	25	25	2363	2367	2371			
10	QPSK	50	0	2307	2314	2320			
10	HQAM	1	0	2388	2389	2394			24.7
10	HQAM	1	25	2390	2393	2391			
10	HQAM	1	49	2395	2390	2381			
10	HQAM	25	0	2257	2252	2259			
10	HQAM	25	12	2258	2254	2257			23.7
10	HQAM	25	25	2264	2263	2256			
10	HQAM	50	0	2208	2202	2208			
10	HQAM	1	25	2204	2203	2203			23.7
10	HQAM	1	49	2202	2201	2201			
10	HQAM	25	12	2171	2169	2167			22.7
10	HQAM	25	25	2186	2170	2157			
10	HQAM	50	0	2109	2106	2102			
10	SSBQAM	1	0	1940	1933	1932			20.7
10	SSBQAM	1	25	1944	1945	1944			
10	SSBQAM	1	49	1952	1948	1937			
10	SSBQAM	25	0	1941	1941	1943			
10	SSBQAM	25	12	1944	1939	1938			20.7
10	SSBQAM	25	25	1934	1938	1938			
10	SSBQAM	50	0	1944	1937	1938			
Channel				ISO	ISO	ISO			
Frequency (MHz)				ISO	ISO	ISO			
5	QPSK	1	0	2454	2452	2448			25.7
5	QPSK	1	25	2450	2453	2448			
5	QPSK	1	24	2446	2448	2448			
5	QPSK	12	0	2359	2370	2381			24.7
5	QPSK	12	12	2368	2367	2358			
5	QPSK	12	13	2380	2385	2384			
5	QPSK	25	0	2363	2369	2355			
5	HQAM	1	0	2309	2305	2309			24.7
5	HQAM	1	12	2309	2305	2303			
5	HQAM	1	24	2309	2301	2308			
5	HQAM	12	0	2284	2272	2281			23.7
5	HQAM	12	7	2288	2289	2288			
5	HQAM	12	13	2281	2287	2281			
5	HQAM	25	0	2259	2271	2258			
5	HQAM	1	0	2281	2280	2282			23.7
5	HQAM	1	24	2282	2286	2287			
5	HQAM	1	24	2282	2286	2282			
5	HQAM	12	0	2189	2175	2187			22.7
5	HQAM	12	7	2173	2175	2181			
5	HQAM	12	13	2188	2170	2122			
5	HQAM	25	0	2189	2174	2145			
5	SSBQAM	1	0	1933	1948	1944			20.7
5	SSBQAM	1	12	1940	1941	1941			
5	SSBQAM	1	24	1945	1945	1934			
5	SSBQAM	12	0	1935	1932	1943			20.7
5	SSBQAM	12	7	1937	1928	1930			
5	SSBQAM	12	13	1933	1938	1938			
5	SSBQAM	25	0	1934	1937	1931			
Channel				ISO	ISO	ISO			
Frequency (MHz)				ISO	ISO	ISO			
3	QPSK	1	0	2380	2387	2385			25.7
3	QPSK	1	8	2387	2384	2383			
3	QPSK	1	16	2378	2383	2371			
3	QPSK	8	0	2289	2293	2287			24.7
3	QPSK	8	4	2295	2301	2287			
3	QPSK	8	8	2288	2293	2283			
3	QPSK	16	0	2250	2257	2286			24.7
3	HQAM	1	0	2313	2317	2311			
3	HQAM	1	8	2315	2320	2313			
3	HQAM	1	16	2311	2318	2303			
3	HQAM	8	0	2156	2200	2184			23.7
3	HQAM	8	4	2198	2206	2196			
3	HQAM	8	7	2156	2198	2187			
3	HQAM	16	0	2106	2201	2180			23.7
3	HQAM	1	0	2303	2215	2190			
3	HQAM	1	8	2313	2221	2171			
3	HQAM	1	16	2302	2209	2170			22.7
3	HQAM	8	0	2190	2180	2078			
3	HQAM	8	4	2194	2103	2178			
3	HQAM	8	7	2189	2098	2171			
3	HQAM	16	0	2102	2098	2172			
3	SSBQAM	1	0	1945	1945	1946			20.7
3	SSBQAM	1	8	1938	1939	1944			
3	SSBQAM	1	16	1935	1939	1944			
3	SSBQAM	8	0	1938	1941	1939			20.7
3	SSBQAM	8	4	1935	1939	1937			
3	SSBQAM	8	7	1933	1933	1920			
3	SSBQAM	16	0	1938	1938	1931			
Channel				ISO	ISO	ISO			
Frequency (MHz)				ISO	ISO	ISO			
1.4	QPSK	1	0	2311	2319	2320			25.7
1.4	QPSK	1	3	2380	2386	2376			
1.4	QPSK	1	5	2370	2380	2371			
1.4	QPSK	1	8	2380	2380	2375			
1.4	QPSK	3	1	2383	2380	2380			24.7
1.4	QPSK	3	3	2378	2381	2372			
1.4	QPSK	6	0	2283	2291	2277			
1.4	HQAM	1	0	2305	2311	2307			24.7
1.4	HQAM	1	5	2314	2321	2312			
1.4	HQAM	1	5	2307	2312	2300			
1.4	HQAM	3	0	2289	2289	2282			
1.4	HQAM	3	1	2293	2300	2286			23.7
1.4	HQAM	3	1	2283	2291	2278			
1.4	HQAM	6	0	2191	2199	2186			
1.4	HQAM	1	0	2108	2204	2172			23.7
1.4	HQAM	1	3	2210	2215	2178			
1.4	HQAM	1	6	2200	2204	2172			
1.4	HQAM	3	0	2109	2197	2173			
1.4	HQAM	3	1	2104	2200	2173			
1.4	HQAM	3	1	2109	2103	2173			22.7
1.4	HQAM	6	0	2078	2084	2071			
1.4	SSBQAM	1	0	1940	1948	1947			20.7
1.4	SSBQAM	1	3	1937	1941	1941			
1.4	SSBQAM	1	5	1947	1947	1937			
1.4	SSBQAM	3	0	1931	1939	1938			
1.4	SSBQAM	3	1	1944	1938	1938			
1.4	SSBQAM	3	1	1927	1938	1923			20.7
1.4	SSBQAM	6	0	1938	1938	1930			



Band 7_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (min)
Channel							
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	2275	2296	2314	24.1
20	QPSK	1	49	2255	2281	2298	
20	QPSK	1	99	2277	2297	2291	
20	QPSK	60	0	2244	2287	2294	24.1
20	QPSK	50	24	2258	2283	2285	
20	QPSK	50	50	2259	2287	2286	
20	QPSK	100	0	2258	2272	2288	24.1
20	HQAM	1	0	2287	2272	2310	
20	HQAM	1	49	2254	2270	2291	
20	HQAM	50	0	2289	2291	2283	23.7
20	HQAM	50	0	2245	2259	2285	
20	HQAM	50	24	2257	2286	2284	
20	HQAM	50	50	2258	2284	2289	23.7
20	HQAM	100	0	2258	2270	2283	
20	HQAM	1	49	2254	2276	2283	
20	HQAM	1	49	2253	2278	2282	23.7
20	HQAM	1	99	2282	2282	2211	
20	HQAM	60	0	2203	2215	2236	
20	HQAM	50	24	2283	2215	2268	22.7
20	HQAM	50	50	2206	2223	2220	
20	HQAM	100	0	2202	2213	2219	
20	SSBQAM	1	0	1978	1977	1989	20.7
20	SSBQAM	1	49	1983	1971	1988	
20	SSBQAM	1	99	1989	1975	1972	
20	SSBQAM	50	0	1982	1980	1984	20.7
20	SSBQAM	50	24	1986	1985	1981	
20	SSBQAM	50	50	1971	1987	1986	
20	SSBQAM	100	0	1979	1982	1980	Time-up (min)
Channel				2507.5	2535	2562.5	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	2268	2296	2280	24.1
15	QPSK	1	49	2266	2281	2290	
15	QPSK	1	74	2271	2292	2274	
15	QPSK	30	0	2234	2283	2283	24.1
15	QPSK	30	20	2253	2282	2284	
15	QPSK	30	39	2280	2278	2282	
15	QPSK	75	0	2252	2272	2284	24.1
15	HQAM	1	0	2283	2282	2308	
15	HQAM	1	39	2249	2279	2288	
15	HQAM	1	74	2284	2284	2277	23.7
15	HQAM	30	0	2238	2282	2283	
15	HQAM	30	20	2254	2287	2274	
15	HQAM	30	39	2285	2271	2286	23.7
15	HQAM	75	0	2252	2261	2275	
15	HQAM	1	0	2249	2280	2289	
15	HQAM	1	74	2282	2272	2277	22.7
15	HQAM	1	74	2282	2281	2282	
15	HQAM	30	0	2185	2214	2226	
15	HQAM	30	20	2194	2211	2265	20.7
15	HQAM	30	39	2281	2219	2214	
15	HQAM	75	0	2184	2202	2213	
15	SSBQAM	1	0	1987	1974	1988	20.7
15	SSBQAM	1	39	1972	1983	1985	
15	SSBQAM	1	74	1986	1980	1972	
15	SSBQAM	30	0	1959	1955	1959	20.7
15	SSBQAM	30	20	1987	1951	1987	
15	SSBQAM	30	39	1987	1958	1984	
15	SSBQAM	75	0	1974	1955	1957	Time-up (min)
Channel				2090	2100	2160	
Frequency (MHz)				2090	2100	2160	
10	QPSK	1	0	2272	2296	2278	24.1
10	QPSK	1	25	2280	2278	2294	
10	QPSK	1	49	2271	2287	2281	
10	QPSK	25	0	2241	2283	2281	24.1
10	QPSK	25	12	2252	2280	2277	
10	QPSK	25	25	2251	2278	2280	
10	QPSK	50	0	2249	2284	2279	24.1
10	HQAM	1	0	2248	2286	2306	
10	HQAM	1	25	2249	2279	2291	
10	HQAM	1	49	2284	2287	2280	23.7
10	HQAM	25	0	2240	2282	2281	
10	HQAM	25	12	2259	2288	2276	
10	HQAM	25	25	2252	2277	2288	23.7
10	HQAM	50	0	2256	2286	2282	
10	HQAM	1	0	2258	2280	2282	
10	HQAM	1	25	2246	2280	2278	22.7
10	HQAM	1	49	2280	2278	2286	
10	HQAM	25	0	2185	2287	2288	
10	HQAM	25	12	2280	2211	2199	22.7
10	HQAM	25	25	2198	2216	2211	
10	HQAM	50	0	2197	2213	2212	
10	SSBQAM	1	0	1972	1982	1982	20.7
10	SSBQAM	1	25	1971	1985	1981	
10	SSBQAM	1	49	1988	1988	1970	
10	SSBQAM	25	0	1988	1987	1987	20.7
10	SSBQAM	25	12	1984	1950	1958	
10	SSBQAM	25	25	1984	1960	1986	
10	SSBQAM	50	0	1971	1981	1986	Time-up (min)
Channel				2075	2100	2165	
Frequency (MHz)				2075	2100	2165	
5	QPSK	1	0	2284	2284	2290	24.1
5	QPSK	1	12	2284	2277	2301	
5	QPSK	1	24	2289	2291	2273	
5	QPSK	15	0	2242	2280	2274	24.1
5	QPSK	12	7	2251	2254	2284	
5	QPSK	12	15	2254	2273	2277	
5	QPSK	24	0	2255	2286	2282	24.1
5	HQAM	1	0	2247	2284	2309	
5	HQAM	1	12	2248	2279	2286	
5	HQAM	1	24	2268	2288	2281	23.7
5	HQAM	12	0	2245	2284	2279	
5	HQAM	12	12	2251	2284	2283	
5	HQAM	12	12	2252	2283	2282	23.7
5	HQAM	25	0	2251	2284	2283	
5	HQAM	1	0	2247	2286	2282	
5	HQAM	1	12	2282	2273	2281	22.7
5	HQAM	11	24	2282	2273	2282	
5	HQAM	12	0	2189	2205	2206	
5	HQAM	12	7	2195	2208	2198	22.7
5	HQAM	12	12	2186	2210	2210	
5	HQAM	25	0	2198	2207	2210	
5	SSBQAM	1	0	1988	1988	1986	20.7
5	SSBQAM	1	12	1970	1986	1986	
5	SSBQAM	1	24	1982	1971	1986	
5	SSBQAM	12	0	1958	1951	1958	20.7
5	SSBQAM	12	12	1983	1957	1955	
5	SSBQAM	12	12	1986	1980	1980	
5	SSBQAM	25	0	1971	1987	1984	Time-up (min)
Channel				2075	2100	2165	
Frequency (MHz)				2075	2100	2165	



Band 12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2464	2465	2466	25.7
10	QPSK	1	26	2459	2460	2461	
10	QPSK	1	49	2467	2463	2468	24.7
10	QPSK	25	0	2372	2374	2371	
10	QPSK	25	12	2378	2373	2372	24.7
10	QPSK	25	25	2377	2379	2380	
10	QPSK	50	0	2378	2371	2373	24.7
10	HQAM	1	0	2386	2385	2387	
10	HQAM	1	25	2387	2389	2401	23.7
10	HQAM	49	0	2408	2401	2404	
10	HQAM	25	0	2271	2273	2274	23.7
10	HQAM	25	12	2276	2273	2275	
10	HQAM	25	25	2272	2280	2277	23.7
10	HQAM	50	0	2275	2272	2274	
10	HQAM	1	0	2281	2280	2283	23.7
10	HQAM	1	25	2288	2282	2286	
10	HQAM	1	49	2286	2291	2294	22.7
10	HQAM	25	0	2178	2174	2176	
10	HQAM	25	12	2184	2177	2178	22.7
10	HQAM	25	25	2179	2181	2180	
10	HQAM	50	0	2182	2177	2177	20.7
10	HQAM	1	0	1942	1954	1955	
10	HQAM	1	25	1956	1957	1958	20.7
10	HQAM	49	0	1952	1958	1954	
10	HQAM	25	0	1952	1954	1955	20.7
10	HQAM	25	12	1956	1948	1945	
10	HQAM	25	25	1942	1947	1955	20.7
10	HQAM	50	0	1953	1951	1951	
Channel							
Frequency (MHz)							
5	QPSK	1	0	2465	2466	2468	25.7
5	QPSK	1	24	2465	2460	2460	
5	QPSK	1	24	2484	2465	2464	24.7
5	QPSK	12	0	2375	2373	2373	
5	QPSK	12	12	2378	2380	2370	24.7
5	QPSK	12	12	2370	2374	2372	
5	QPSK	25	0	2373	2371	2371	24.7
5	HQAM	1	0	2388	2389	2387	
5	HQAM	1	12	2401	2401	2389	23.7
5	HQAM	1	24	2402	2401	2387	
5	HQAM	12	0	2283	2278	2278	23.7
5	HQAM	12	7	2278	2280	2274	
5	HQAM	12	12	2275	2275	2275	23.7
5	HQAM	25	0	2278	2271	2270	
5	HQAM	1	0	2288	2285	2288	23.7
5	HQAM	1	24	2288	2288	2282	
5	HQAM	12	0	2188	2182	2182	22.7
5	HQAM	12	7	2183	2183	2178	
5	HQAM	12	12	2178	2180	2177	20.7
5	HQAM	25	0	2178	2174	2174	
5	HQAM	1	0	1938	1948	1948	20.7
5	HQAM	1	12	1939	1949	1952	
5	HQAM	1	24	1942	1948	1950	20.7
5	HQAM	12	7	1951	1948	1942	
5	HQAM	12	12	1938	1937	1954	20.7
5	HQAM	25	0	1953	1949	1948	
Channel							
Frequency (MHz)							
3	QPSK	1	0	2392	2388	2386	25.7
3	QPSK	1	8	2392	2395	2393	
3	QPSK	8	0	2385	2390	2384	24.7
3	QPSK	8	4	2288	2297	2284	
3	QPSK	8	4	2288	2300	2297	24.7
3	QPSK	16	0	2288	2282	2282	
3	HQAM	1	0	2398	2399	2392	24.7
3	HQAM	1	8	2331	2331	2329	
3	HQAM	1	14	2318	2322	2319	23.7
3	HQAM	8	4	2288	2301	2300	
3	HQAM	8	4	2289	2288	2284	23.7
3	HQAM	8	7	2280	2286	2188	
3	HQAM	16	0	2281	2281	2184	23.7
3	HQAM	1	0	2221	2214	2214	
3	HQAM	1	8	2224	2223	2220	22.7
3	HQAM	8	0	2183	2183	2086	
3	HQAM	8	4	2188	2187	2184	22.7
3	HQAM	8	7	2089	2182	2089	
3	HQAM	16	0	2100	2095	2093	20.7
3	HQAM	1	0	1952	1952	1943	
3	HQAM	1	14	1958	1947	1948	20.7
3	HQAM	8	4	1953	1948	1939	
3	HQAM	8	7	1945	1937	1953	20.7
3	HQAM	16	0	1951	1944	1942	
Channel							
Frequency (MHz)							
1.4	QPSK	1	0	2378	2374	2373	25.7
1.4	QPSK	1	3	2378	2380	2380	
1.4	QPSK	1	5	2372	2373	2371	24.7
1.4	QPSK	3	1	2384	2378	2379	
1.4	QPSK	3	3	2374	2378	2374	24.7
1.4	QPSK	6	0	2283	2284	2281	
1.4	HQAM	1	0	2388	2387	2388	23.7
1.4	HQAM	1	5	2388	2385	2383	
1.4	HQAM	3	0	2289	2284	2288	23.7
1.4	HQAM	3	1	2284	2283	2282	
1.4	HQAM	6	0	2188	2180	2188	23.7
1.4	HQAM	1	3	2288	2289	2283	
1.4	HQAM	1	6	2283	2282	2187	23.7
1.4	HQAM	3	1	2188	2184	2188	
1.4	HQAM	3	1	2282	2187	2280	22.7
1.4	HQAM	6	0	2088	2088	2081	
1.4	HQAM	1	0	1938	1948	1942	20.7
1.4	HQAM	1	5	1958	1947	1956	
1.4	HQAM	3	0	1942	1945	1951	20.7
1.4	HQAM	3	1	1958	1941	1938	
1.4	HQAM	3	1	1939	1944	1952	20.7
1.4	HQAM	6	0	1947	1948	1950	



Band 13_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Time-up limit (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.98			25.2
10	QPSK	1	25	24.02			
10	QPSK	1	49	24.10			
10	QPSK	25	0	23.16			24.2
10	QPSK	25	12	23.17			
10	QPSK	25	25	23.19			
10	QPSK	50	0	23.18			24.2
10	HQAM	1	0	23.38			
10	HQAM	1	25	23.37			
10	HQAM	1	49	23.40			23.2
10	HQAM	25	0	22.17			
10	HQAM	25	12	22.20			
10	HQAM	25	25	22.22			23.2
10	HQAM	50	0	22.19			
10	HQAM	1	0	22.21			
10	HQAM	1	25	22.32			22.2
10	HQAM	1	49	22.34			
10	HQAM	25	0	21.17			
10	HQAM	25	12	21.24			22.2
10	HQAM	25	25	21.23			
10	HQAM	50	0	21.23			
10	256QAM	1	0	18.81			20.2
10	256QAM	1	25	18.97			
10	256QAM	1	49	18.91			
10	256QAM	25	0	18.78			20.2
10	256QAM	25	12	18.86			
10	256QAM	25	25	18.89			
10	256QAM	50	0	18.84			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.93	23.98	23.74	25.2
5	QPSK	1	24	24.04	24.07	23.77	
5	QPSK	1	24	24.07	24.08	23.83	
5	QPSK	12	0	23.10	23.13	22.85	24.2
5	QPSK	12	12	23.18	23.15	22.93	
5	QPSK	12	12	23.19	23.21	22.89	
5	QPSK	25	0	23.18	23.14	22.90	24.2
5	HQAM	1	0	23.31	23.29	23.01	
5	HQAM	1	12	23.29	23.33	23.04	
5	HQAM	1	24	23.07	23.08	23.04	23.2
5	HQAM	12	0	22.20	22.17	21.92	
5	HQAM	12	7	22.20	22.17	21.95	
5	HQAM	12	13	22.21	22.20	21.94	23.2
5	HQAM	25	0	22.23	22.16	21.92	
5	HQAM	1	0	22.19	22.28	21.94	
5	HQAM	1	24	22.25	22.20	22.01	23.2
5	HQAM	1	24	22.29	22.32	22.02	
5	HQAM	12	0	21.22	21.23	20.96	
5	HQAM	12	7	21.28	21.21	20.98	22.2
5	HQAM	12	13	21.25	21.26	20.95	
5	HQAM	25	0	21.06	21.17	20.96	
5	256QAM	1	0	18.55	18.57	18.59	20.2
5	256QAM	1	12	18.93	18.96	18.94	
5	256QAM	1	24	18.96	18.99	18.96	
5	256QAM	12	7	18.83	18.78	18.79	20.2
5	256QAM	12	13	18.82	18.84	18.79	
5	256QAM	25	0	18.77	18.77	18.74	





Band 14_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq
Channel				700	700	700
Frequency (MHz)						
10	QPSK	1	0	2459		
10	QPSK	1	25	2453		
10	QPSK	1	49	2448		25.7
10	QPSK	25	0	2355		
10	QPSK	25	12	2357		24.7
10	QPSK	25	25	2353		
10	QPSK	50	0	2355		
10	HQAM	1	0	2395		24.7
10	HQAM	1	25	2391		
10	HQAM	1	49	2386		
10	HQAM	25	0	2254		
10	HQAM	25	12	2257		23.7
10	HQAM	25	25	2254		
10	HQAM	50	0	2255		
10	HQAM	1	0	2279		23.7
10	HQAM	1	25	2274		
10	HQAM	1	49	2279		
10	HQAM	25	0	2158		
10	HQAM	25	12	2161		22.7
10	HQAM	25	25	2158		
10	HQAM	50	0	2159		
10	256QAM	1	0	1953		20.7
10	256QAM	1	25	1957		
10	256QAM	1	49	1955		
10	256QAM	25	0	1929		
10	256QAM	25	12	1934		20.7
10	256QAM	25	25	1933		
10	256QAM	50	0	1925		
Channel				2335	2335	2335
Frequency (MHz)						
5	QPSK	1	0	2448	2448	2445
5	QPSK	1	25	2456	2453	2450
5	QPSK	1	24	2455	2455	2448
5	QPSK	12	0	2362	2354	2351
5	QPSK	12	12	2368	2368	2360
5	QPSK	12	12	2361	2360	2356
5	QPSK	25	0	2359	2354	2352
5	HQAM	1	0	2382	2382	2379
5	HQAM	1	12	2390	2392	2386
5	HQAM	1	24	2388	2388	2379
5	HQAM	12	0	2284	2281	2283
5	HQAM	12	7	2288	2289	2288
5	HQAM	12	12	2295	2293	2294
5	HQAM	25	0	2262	2256	2256
5	HQAM	1	0	2281	2277	2277
5	HQAM	1	24	2283	2285	2284
5	HQAM	1	24	2282	2282	2288
5	HQAM	12	0	2171	2160	2158
5	HQAM	12	7	2169	2170	2168
5	HQAM	12	12	2163	2166	2161
5	HQAM	25	0	2165	2161	2154
5	256QAM	1	0	1947	1949	1953
5	256QAM	1	12	1931	1933	1928
5	256QAM	1	24	1946	1945	1942
5	256QAM	12	0	1919	1927	1927
5	256QAM	12	7	1928	1926	1934
5	256QAM	12	12	1933	1930	1932
5	256QAM	25	0	1921	1919	1915



Band 17_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (sec)	
Channel								
Frequency (MHz)								
10	QPSK	1	0	2456	2456	2455	25.7	
10	QPSK	1	25	2458	2464	2460		
10	QPSK	1	49	2462	2466	2462		
10	QPSK	25	0	2384	2386	2382	24.7	
10	QPSK	25	12	2378	2373	2371		
10	QPSK	25	25	2380	2379	2380		
10	HQAM	1	0	2390	2390	2390	24.7	
10	HQAM	1	25	2401	2401	2400		
10	HQAM	25	0	2401	2402	2402		
10	HQAM	25	0	2265	2264	2264	23.7	
10	HQAM	25	12	2278	2271	2271		
10	HQAM	25	25	2277	2281	2276		
10	HQAM	50	0	2269	2270	2267	23.7	
10	HQAM	1	25	2252	2257	2250		
10	HQAM	1	49	2252	2258	2263		
10	HQAM	25	0	2167	2167	2167	22.7	
10	HQAM	25	12	2184	2178	2178		
10	HQAM	25	25	2180	2182	2182		
10	HQAM	50	0	2170	2171	2171	20.7	
10	256QAM	1	0	1944	1937	1933		
10	256QAM	1	25	1950	1948	1951		
10	256QAM	25	0	1946	1944	1946	20.7	
10	256QAM	25	12	1958	1952	1943		
10	256QAM	25	25	1958	1954	1952		
10	256QAM	50	0	1948	1948	1948	20.7	
Channel								
Frequency (MHz)								
5	QPSK	1	0	2457	2456	2455	25.7	
5	QPSK	1	25	2460	2461	2463		
5	QPSK	1	24	2484	2461	2464		
5	QPSK	12	0	2387	2389	2386	24.7	
5	QPSK	12	12	2378	2374	2380		
5	QPSK	12	13	2377	2376	2373		
5	HQAM	1	0	2376	2376	2365	24.7	
5	HQAM	1	0	2391	2393	2391		
5	HQAM	1	12	2397	2403	2398		
5	HQAM	1	24	2408	2404	2401	23.7	
5	HQAM	12	7	2278	2274	2273		
5	HQAM	12	13	2278	2277	2274		
5	HQAM	25	0	2274	2275	2269	23.7	
5	HQAM	1	0	2289	2287	2288		
5	HQAM	1	24	2290	2296	2290		
5	HQAM	1	24	2294	2300	2293	22.7	
5	HQAM	12	0	2173	2177	2178		
5	HQAM	12	7	2181	2179	2173		
5	HQAM	12	13	2179	2185	2175	20.7	
5	HQAM	25	0	2179	2174	2170		
5	256QAM	1	0	1941	1929	1924		
5	256QAM	1	12	1949	1946	1944	20.7	
5	256QAM	1	24	1944	1950	1950		
5	256QAM	12	7	1958	1947	1940		
5	256QAM	12	13	1953	1954	1952	20.7	
5	256QAM	25	0	1937	1941	1942		





Band 26_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Turn-up (dBm)			
Channel				831.5	831.5	831.5				
Frequency (MHz)										
15	QPSK	1	0	2458	2458	2458				
15	QPSK	37	0	2449	2448	2448				25.7
15	QPSK	1	74	2449	2448	2438				
15	QPSK	36	0	2384	2382	2381				
15	QPSK	38	20	2389	2387	2357				24.7
15	QPSK	38	39	2354	2353	2359				
15	QPSK	75	0	2327	2326	2328				
15	16QAM	1	0	2388	2377	2385				24.7
15	16QAM	1	37	2379	2378	2378				
15	16QAM	74	0	2377	2371	2386				
15	16QAM	38	0	2263	2252	2259				23.7
15	16QAM	38	20	2265	2265	2265				
15	16QAM	38	39	2265	2262	2266				
15	16QAM	75	0	2268	2265	2281				
15	16QAM	1	0	2275	2287	2283				23.7
15	16QAM	1	37	2271	2274	2268				
15	16QAM	1	74	2272	2268	2293				
15	16QAM	36	0	2184	2184	2184				22.7
15	16QAM	38	20	2188	2188	2181				
15	16QAM	38	39	2187	2184	2183				
15	16QAM	75	0	2170	2167	2159				
15	256QAM	1	0	1946	1943	1944				20.7
15	256QAM	1	37	1945	1937	1946				
15	256QAM	74	0	1937	1936	1936				
15	256QAM	38	0	1939	1940	1938				
15	256QAM	38	20	1941	1941	1938				
15	256QAM	38	39	1931	1932	1931				20.7
15	256QAM	75	0	1941	1943	1934				
Channel				831.5	831.5	831.5				Turn-up (dBm)
Frequency (MHz)				839	831.5	841				
10	QPSK	1	0	2454	2452	2449				25.7
10	QPSK	26	26	2453	2452	2449				
10	QPSK	1	49	2453	2454	2442				
10	QPSK	26	0	2368	2357	2357				24.7
10	QPSK	26	26	2368	2358	2358				
10	QPSK	26	26	2383	2389	2387				
10	QPSK	50	0	2365	2365	2354				
10	16QAM	1	0	2399	2387	2388				24.7
10	16QAM	1	26	2389	2390	2388				
10	16QAM	1	49	2389	2384	2375				
10	16QAM	25	0	2270	2259	2266				23.7
10	16QAM	25	12	2269	2259	2254				
10	16QAM	25	26	2269	2262	2266				
10	16QAM	50	0	2265	2264	2258				
10	16QAM	1	0	2292	2278	2274				23.7
10	16QAM	1	26	2288	2286	2278				
10	16QAM	1	49	2281	2280	2268				
10	16QAM	25	0	2151	2150	2162				22.7
10	16QAM	25	12	2170	2163	2162				
10	16QAM	25	26	2181	2181	2134				
10	16QAM	50	0	2153	2152	2155				
10	256QAM	1	0	1942	1942	1941				20.7
10	256QAM	1	26	1943	1928	1943				
10	256QAM	1	49	1941	1941	1938				
10	256QAM	25	0	1932	1934	1937				20.7
10	256QAM	25	12	1938	1942	1938				
10	256QAM	25	26	1928	1925	1934				
10	256QAM	50	0	1933	1933	1930				
Channel				2675	2666	2705				Turn-up (dBm)
Frequency (MHz)				831.5	831.5	831.5				
5	QPSK	1	0	2450	2450	2455				25.7
5	QPSK	1	12	2453	2455	2454				
5	QPSK	1	24	2455	2456	2442				
5	QPSK	12	0	2372	2381	2381				24.7
5	QPSK	12	7	2369	2354	2358				
5	QPSK	12	8	2384	2369	2361				
5	QPSK	26	0	2368	2362	2357				
5	16QAM	1	0	2401	2391	2389				24.7
5	16QAM	1	12	2398	2396	2378				
5	16QAM	1	24	2396	2393	2374				
5	16QAM	12	1	2278	2263	2264				23.7
5	16QAM	12	7	2273	2268	2259				
5	16QAM	12	13	2265	2261	2252				
5	16QAM	26	0	2265	2262	2264				23.7
5	16QAM	1	0	2258	2264	2281				
5	16QAM	1	12	2272	2264	2264				
5	16QAM	1	24	2269	2266	2261				
5	16QAM	12	0	2155	2187	2158				22.7
5	16QAM	12	7	2182	2171	2121				
5	16QAM	12	13	2158	2164	2034				
5	16QAM	26	0	2152	2188	2122				
5	256QAM	1	0	1944	1944	1938				20.7
5	256QAM	1	12	1942	1938	1944				
5	256QAM	1	24	1948	1948	1927				
5	256QAM	12	0	1935	1935	1935				
5	256QAM	12	7	1940	1940	1931				20.7
5	256QAM	12	13	1928	1928	1930				
5	256QAM	26	0	1941	1933	1928				
Channel				2675	2666	2705				Turn-up (dBm)
Frequency (MHz)				814.7	831.5	846.3				
1.4	QPSK	1	0	2447	2443	2446				25.7
1.4	QPSK	1	0	2451	2448	2445				
1.4	QPSK	1	0	2449	2450	2432				
1.4	QPSK	3	0	2446	2448	2447				
1.4	QPSK	3	0	2448	2450	2453				
1.4	QPSK	3	3	2446	2448	2432				24.7
1.4	QPSK	6	0	2372	2358	2356				
1.4	16QAM	1	0	2365	2364	2348				
1.4	16QAM	1	3	2360	2359	2341				24.7
1.4	16QAM	3	0	2364	2360	2354				
1.4	16QAM	3	0	2354	2355	2350				
1.4	16QAM	3	1	2387	2388	2377				
1.4	16QAM	3	20	2377	2350	2360				23.7
1.4	16QAM	6	0	2277	2281	2280				
1.4	16QAM	1	0	2288	2284	2259				
1.4	16QAM	3	0	2255	2261	2243				23.7
1.4	16QAM	1	6	2269	2259	2254				
1.4	16QAM	3	0	2251	2275	2279				
1.4	16QAM	6	0	2262	2260	2224				
1.4	16QAM	3	3	2260	2286	2269				23.7
1.4	16QAM	6	0	2147	2167	2156				
1.4	256QAM	1	0	1944	1937	1936				20.7
1.4	256QAM	1	3	1938	1934	1942				
1.4	256QAM	3	0	1935	1940	1938				
1.4	256QAM	3	1	1939	1938	1934				
1.4	256QAM	3	2	1921	1927	1928				
1.4	256QAM	6	0	1933	1933	1936				20.7



Band 30_Ant 2						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2315		
10	QPSK	1	25	2309		
10	QPSK	1	49	2302		
10	QPSK	25	0	2208		
10	QPSK	25	12	2216		
10	QPSK	25	25	2218		
10	QPSK	50	0	2214		
10	HQAM	1	0	2244		
10	HQAM	1	25	2248		
10	HQAM	1	49	2241		
10	HQAM	25	0	2108		
10	HQAM	25	12	2114		
10	HQAM	25	25	2117		
10	HQAM	50	0	2114		
10	HQAM	1	0	2120		
10	HQAM	1	25	2120		
10	HQAM	1	49	2127		
10	HQAM	25	0	2012		
10	HQAM	25	12	2020		
10	HQAM	25	25	2020		
10	HQAM	50	0	2018		
10	256QAM	1	0	1880		
10	256QAM	1	25	1884		
10	256QAM	1	49	1881		
10	256QAM	25	0	1878		
10	256QAM	25	12	1873		
10	256QAM	25	25	1875		
10	256QAM	50	0	1877		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2307.5	2310	2312.5
5	QPSK	1	0	2297	2301	2305
5	QPSK	1	12	2314	2314	2312
5	QPSK	1	24	2313	2313	2308
5	QPSK	12	0	2210	2212	2218
5	QPSK	12	12	2223	2217	2221
5	QPSK	12	12	2222	2217	2219
5	QPSK	25	0	2218	2214	2219
5	HQAM	1	0	2232	2234	2230
5	HQAM	1	12	2242	2240	2238
5	HQAM	1	24	2244	2240	2238
5	HQAM	12	0	2115	2114	2119
5	HQAM	12	7	2124	2120	2122
5	HQAM	12	13	2125	2118	2122
5	HQAM	25	0	2121	2118	2120
5	HQAM	1	0	2128	2132	2134
5	HQAM	1	12	2132	2138	2133
5	HQAM	1	24	2138	2138	2131
5	HQAM	12	0	2017	2021	2020
5	HQAM	12	7	2020	2023	2028
5	HQAM	12	13	2030	2025	2024
5	HQAM	25	0	2025	2017	2020
5	256QAM	1	0	1875	1878	1877
5	256QAM	1	12	1887	1890	1885
5	256QAM	1	24	1886	1885	1887
5	256QAM	12	0	1878	1872	1884
5	256QAM	12	7	1883	1872	1884
5	256QAM	12	13	1885	1875	1877
5	256QAM	25	0	1875	1872	1870



Band 66_Ant 2						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power High Ch. Freq	Time-up (sec)
Channel						
Frequency (MHz)						
1700 1745 1770						
20	QPSK	1	0	23.39	23.46	23.55
20	QPSK	1	49	23.35	23.57	23.40
20	QPSK	1	99	23.58	23.60	23.15
20	QPSK	61	0	22.78	22.70	22.70
20	QPSK	59	24	22.81	22.81	22.75
20	QPSK	59	99	22.82	22.87	22.78
20	QPSK	100	0	22.81	22.82	22.71
20	HQAM	1	0	23.34	23.35	23.40
20	HQAM	1	49	23.36	23.44	23.10
20	HQAM	1	99	23.47	23.44	23.26
20	HQAM	59	0	22.71	22.78	22.88
20	HQAM	59	24	22.85	22.77	22.72
20	HQAM	59	99	22.88	22.84	22.69
20	HQAM	100	0	22.88	22.77	22.75
20	HQAM	1	0	22.81	22.71	22.74
20	HQAM	1	49	22.81	22.84	22.39
20	HQAM	1	99	22.89	22.89	22.38
20	HQAM	59	0	21.78	21.74	21.84
20	HQAM	59	24	21.93	21.78	21.48
20	HQAM	59	99	21.92	21.90	21.69
20	HQAM	100	0	21.93	21.85	21.69
20	256QAM	1	0	19.71	19.88	19.88
20	256QAM	1	49	19.59	19.91	19.87
20	256QAM	1	99	19.61	19.88	19.77
20	256QAM	59	0	19.49	19.85	19.83
20	256QAM	59	24	19.74	19.78	19.87
20	256QAM	59	99	19.67	19.62	19.54
20	256QAM	100	0	19.69	19.69	19.82
Channel						
Frequency (MHz)						
1777.5 1745 1772.5						
15	QPSK	1	0	23.38	23.44	23.54
15	QPSK	1	49	23.28	23.65	23.38
15	QPSK	1	74	23.50	23.52	23.07
15	QPSK	39	0	22.68	22.60	22.59
15	QPSK	39	26	22.81	22.71	22.80
15	QPSK	39	39	22.77	22.84	22.88
15	QPSK	75	0	22.81	22.72	22.68
15	HQAM	1	0	23.34	23.31	23.33
15	HQAM	1	37	23.26	23.40	23.01
15	HQAM	1	74	23.44	23.43	23.23
15	HQAM	39	0	22.68	22.68	22.64
15	HQAM	39	26	22.85	22.75	22.87
15	HQAM	39	39	22.84	22.84	22.81
15	HQAM	75	0	22.87	22.70	22.71
15	HQAM	1	0	22.67	22.75	22.73
15	HQAM	1	37	22.81	22.77	22.85
15	HQAM	1	74	22.82	22.86	22.34
15	HQAM	39	0	21.73	21.84	21.84
15	HQAM	39	26	21.89	21.70	21.43
15	HQAM	39	39	21.84	21.82	21.69
15	HQAM	75	0	21.83	21.82	21.98
15	256QAM	1	0	19.63	19.69	19.68
15	256QAM	1	37	19.55	19.88	19.87
15	256QAM	1	74	19.61	19.88	19.74
15	256QAM	39	26	19.43	19.59	19.54
15	256QAM	39	26	19.73	19.60	19.84
15	256QAM	39	39	19.67	19.59	19.52
15	256QAM	75	0	19.62	19.65	19.58
Channel						
Frequency (MHz)						
1802 1802 1802						
10	QPSK	1	0	23.37	23.44	23.53
10	QPSK	1	25	23.33	23.49	23.38
10	QPSK	1	49	23.59	23.54	23.15
10	QPSK	25	0	22.89	22.83	22.52
10	QPSK	25	12	22.78	22.77	22.71
10	QPSK	25	25	22.71	22.69	22.67
10	QPSK	50	0	22.83	22.76	22.66
10	HQAM	1	0	23.33	23.29	23.38
10	HQAM	1	25	23.32	23.40	23.04
10	HQAM	1	49	23.44	23.39	23.26
10	HQAM	25	0	22.84	22.71	22.84
10	HQAM	25	12	22.78	22.77	22.62
10	HQAM	25	25	22.79	22.80	22.59
10	HQAM	50	0	22.78	22.76	22.73
10	HQAM	1	0	22.57	22.71	22.73
10	HQAM	1	25	22.71	22.70	22.33
10	HQAM	1	49	22.87	22.85	22.37
10	HQAM	25	0	21.70	21.71	21.48
10	HQAM	25	12	21.83	21.88	21.38
10	HQAM	25	25	21.82	21.81	21.81
10	HQAM	50	0	21.81	21.78	21.81
10	256QAM	1	0	19.63	19.69	19.68
10	256QAM	1	25	19.58	19.89	19.87
10	256QAM	1	49	19.61	19.85	19.89
10	256QAM	25	0	19.45	19.60	19.61
10	256QAM	25	12	19.67	19.58	19.57
10	256QAM	25	25	19.60	19.58	19.47
10	256QAM	50	0	19.63	19.59	19.60
Channel						
Frequency (MHz)						
1819 1802 1802						
5	QPSK	1	0	23.33	23.48	23.54
5	QPSK	1	12	23.33	23.54	23.39
5	QPSK	1	24	23.51	23.58	23.15
5	QPSK	12	0	22.67	22.65	22.65
5	QPSK	12	7	22.83	22.71	22.81
5	QPSK	12	13	22.80	22.81	22.70
5	QPSK	24	0	22.74	22.69	22.63
5	HQAM	1	0	23.24	23.27	23.37
5	HQAM	1	12	23.24	23.46	23.36
5	HQAM	1	24	23.38	23.35	23.21
5	HQAM	12	0	22.68	22.69	22.80
5	HQAM	12	13	22.84	22.77	22.71
5	HQAM	12	13	22.85	22.78	22.67
5	HQAM	24	0	22.83	22.70	22.75
5	HQAM	1	0	22.64	22.75	22.66
5	HQAM	1	12	22.78	22.78	22.30
5	HQAM	1	24	22.82	22.82	22.38
5	HQAM	12	13	21.68	21.61	21.61
5	HQAM	24	0	21.78	21.80	21.81
5	256QAM	1	0	19.63	19.68	19.61
5	256QAM	1	12	19.46	19.88	19.83
5	256QAM	1	24	19.59	19.85	19.88
5	256QAM	12	0	19.44	19.55	19.83
5	256QAM	12	13	19.74	19.62	19.63
5	256QAM	12	13	19.67	19.62	19.52
5	256QAM	24	0	19.67	19.64	19.56
Channel						
Frequency (MHz)						
1741.5 1745 1746.5						
3	QPSK	1	0	23.38	23.42	23.49
3	QPSK	1	6	23.28	23.49	23.37
3	QPSK	1	14	23.53	23.56	23.12
3	QPSK	6	0	22.70	22.64	22.56
3	QPSK	6	4	22.75	22.75	22.71
3	QPSK	6	7	22.80	22.80	22.59
3	HQAM	1	0	22.77	22.78	22.66
3	HQAM	1	6	23.27	23.27	23.32
3	HQAM	1	8	23.28	23.42	23.03
3	HQAM	6	0	22.88	22.84	22.94
3	HQAM	6	0	22.71	22.74	22.62
3	HQAM	6	4	22.79	22.73	22.88
3	HQAM	6	7	22.80	22.79	22.68
3	HQAM	12	0	22.85	22.72	22.74
3	HQAM	1	0	22.68	22.77	22.64
3	HQAM	1	6	22.78	22.78	22.39
3	HQAM	1	14	22.81	22.83	22.38
3	HQAM	6	0	21.65	21.68	21.46
3	HQAM	6	4	21.90	21.78	21.41
3	HQAM	6	7	21.87	21.87	21.69
3	HQAM	12	0	21.86	21.78	21.58
3	256QAM	1	0	19.67	19.69	19.85
3	256QAM	1	6	19.50	19.89	19.85
3	256QAM	1	14	19.62	19.78	19.76
3	256QAM	6	0	19.47	19.55	19.55
3	256QAM	6	4	19.74	19.56	19.61
3	256QAM	6	7	19.81	19.62	19.49
3	256QAM	12	0	19.62	19.65	19.59
Channel						
Frequency (MHz)						
1819 1802 1802						
1.4	QPSK	1	0	23.11	23.15	23.03
1.4	QPSK	1	3	23.18	23.25	23.14
1.4	QPSK	1	6	23.14	23.19	23.04
1.4	QPSK	3	0	23.19	23.20	23.11
1.4	QPSK	3	1	23.04	23.24	23.18
1.4	QPSK	1.4	0	23.23	23.23	23.06
1.4	HQAM	1	0	23.28	23.29	23.18
1.4	HQAM	1	3	23.28	23.44	23.26
1.4	HQAM	1	3	23.46	23.50	23.35
1.4	HQAM	1	5	23.43	23.39	23.32
1.4	HQAM	3	0	23.25	23.25	23.21
1.4	HQAM	3	1	23.38	23.44	23.19
1.4	HQAM	3	3	23.18	23.38	23.21
1.4	HQAM	6	0	22.74	22.85	22.69
1.4	HQAM	1	0	22.73	22.78	22.70
1.4	HQAM	1	3	22.90	22.92	22.78
1.4	HQAM	1	6	22.78	22.83	22.71
1.4	HQAM	3	0	22.73	22.85	22.88
1.4	HQAM	3	1	22.86	22.84	22.71
1.4	HQAM	3	3	22.77	22.77	22.65
1.4	256QAM	1	0	21.72	21.78	21.86
1.4	256QAM	1	3	19.63	19.68	19.65
1.4	256QAM	1	6	19.49	19.85	19.80
1.4	256QAM	1	5	19.77	19.71	19.69
1.4	256QAM	3	0	19.38	19.48	19.53
1.4	256QAM	3	1	19.84	19.48	19.58
1.4	256QAM	3	3	19.54	19.52	19.40
1.4	256QAM	6	0	19.54	19.62	19.59



Band 71_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dB)			
Channel				693	693	693				
Frequency (MHz)				19329	19329	19329				
20	QPSK	1	0	2466	2467	2462	25.7			
20	QPSK	1	49	2458	2453	2451				
20	QPSK	1	99	2451	2453	2450				
20	QPSK	61	0	2366	2366	2358	24.7			
20	QPSK	50	24	2371	2361	2361				
20	QPSK	50	50	2370	2364	2363				
20	HQAM	100	0	2370	2360	2358	24.7			
20	HQAM	1	0	2402	2392	2382				
20	HQAM	1	49	2392	2389	2385				
20	HQAM	1	99	2389	2386	2385	23.7			
20	HQAM	50	0	2270	2268	2267				
20	HQAM	50	24	2273	2265	2261				
20	HQAM	50	50	2270	2268	2264	23.7			
20	HQAM	100	0	2270	2262	2259				
20	HQAM	1	0	2384	2375	2374				
20	HQAM	1	49	2261	2259	2271	23.7			
20	HQAM	1	99	2278	2277	2278				
20	HQAM	61	0	2168	2167	2161				
20	HQAM	50	24	2173	2165	2165	22.7			
20	HQAM	50	50	2171	2166	2165				
20	HQAM	100	0	2174	2162	2162				
20	SSBQAM	1	0	1958	1950	1937	20.7			
20	SSBQAM	1	49	1941	1936	1939				
20	SSBQAM	1	99	1945	1935	1935				
20	SSBQAM	50	0	1941	1947	1944	20.7			
20	SSBQAM	50	24	1945	1944	1938				
20	SSBQAM	50	50	1940	1938	1929				
20	SSBQAM	100	0	1943	1943	1932	20.7			
Channel				19319	19319	19319				
Frequency (MHz)				670.5	680.5	690.5				
15	QPSK	1	0	2464	2457	2453	25.7			
15	QPSK	1	49	2456	2453	2452				
15	QPSK	1	74	2453	2458	2453				
15	QPSK	39	0	2388	2364	2360	24.7			
15	QPSK	39	20	2371	2368	2369				
15	QPSK	39	39	2384	2383	2381				
15	HQAM	75	0	2372	2369	2366	24.7			
15	HQAM	1	0	2401	2393	2394				
15	HQAM	1	39	2384	2390	2388				
15	HQAM	1	74	2362	2362	2364	23.7			
15	HQAM	39	0	2268	2264	2262				
15	HQAM	39	20	2271	2269	2268				
15	HQAM	39	39	2264	2262	2263	23.7			
15	HQAM	75	0	2273	2269	2267				
15	HQAM	1	0	2247	2279	2275				
15	HQAM	1	74	2263	2278	2278	23.7			
15	HQAM	1	74	2275	2283	2277				
15	HQAM	39	0	2148	2169	2163				
15	HQAM	39	20	2152	2171	2171	22.7			
15	HQAM	39	39	2168	2185	2185				
15	HQAM	75	0	2170	2170	2168				
15	SSBQAM	1	0	1949	1952	1927	20.7			
15	SSBQAM	1	39	1933	1928	1932				
15	SSBQAM	1	74	1946	1946	1936				
15	SSBQAM	39	0	1935	1941	1937	20.7			
15	SSBQAM	39	20	1938	1943	1930				
15	SSBQAM	39	39	1938	1938	1935				
15	SSBQAM	75	0	1938	1938	1931	20.7			
Channel				19312	19322	19342				
Frequency (MHz)				681	691	691				
10	QPSK	1	0	2452	2457	2449	25.7			
10	QPSK	1	25	2455	2445	2450				
10	QPSK	1	49	2452	2451	2445				
10	QPSK	25	0	2372	2358	2353	24.7			
10	QPSK	25	12	2371	2358	2359				
10	QPSK	25	25	2366	2362	2361				
10	QPSK	50	0	2371	2365	2356	24.7			
10	HQAM	1	0	2455	2391	2384				
10	HQAM	1	25	2362	2366	2369				
10	HQAM	1	49	2368	2350	2363	23.7			
10	HQAM	25	0	2272	2265	2264				
10	HQAM	25	12	2271	2257	2254				
10	HQAM	25	25	2264	2260	2261	23.7			
10	HQAM	50	0	2271	2263	2264				
10	HQAM	1	0	2254	2278	2273				
10	HQAM	1	25	2258	2270	2260	23.7			
10	HQAM	1	49	2266	2261	2271				
10	HQAM	25	0	2132	2159	2165				
10	HQAM	25	12	2133	2160	2162	22.7			
10	HQAM	25	25	2128	2165	2164				
10	HQAM	50	0	2141	2168	2157				
10	SSBQAM	1	0	1955	1957	1936	20.7			
10	SSBQAM	1	25	1938	1928	1934				
10	SSBQAM	1	49	1937	1945	1955				
10	SSBQAM	25	0	1934	1942	1937	20.7			
10	SSBQAM	25	12	1932	1935	1932				
10	SSBQAM	25	25	1940	1928	1928				
10	SSBQAM	50	0	1938	1933	1922	20.7			
Channel				19347	19347	19347				
Frequency (MHz)				692.5	672.5	672.5				
5	QPSK	1	0	2463	2457	2455	25.7			
5	QPSK	1	12	2461	2454	2456				
5	QPSK	1	24	2458	2454	2447				
5	QPSK	19	0	2379	2363	2364	24.7			
5	QPSK	12	7	2373	2364	2370				
5	QPSK	12	19	2368	2360	2361				
5	HQAM	1	0	2379	2364	2359	24.7			
5	HQAM	1	0	2402	2392	2389				
5	HQAM	1	12	2365	2360	2368				
5	HQAM	1	24	2369	2368	2383	23.7			
5	HQAM	12	0	2282	2268	2288				
5	HQAM	12	12	2278	2268	2270				
5	HQAM	12	12	2269	2261	2261	23.7			
5	HQAM	25	0	2273	2265	2262				
5	HQAM	1	0	2223	2260	2279				
5	HQAM	1	12	2248	2285	2281	23.7			
5	HQAM	11	24	2247	2283	2278				
5	HQAM	12	0	2164	2164	2165				
5	HQAM	12	7	2149	2170	2173	22.7			
5	HQAM	12	12	2168	2164	2165				
5	HQAM	25	0	2131	2167	2162				
5	SSBQAM	1	0	1955	1952	1931	20.7			
5	SSBQAM	1	12	1937	1928	1936				
5	SSBQAM	1	24	1938	1947	1955				
5	SSBQAM	12	0	1935	1945	1934	20.7			
5	SSBQAM	12	12	1937	1938	1932				
5	SSBQAM	12	12	1936	1936	1920				
5	SSBQAM	25	0	1937	1935	1931	20.7			







Band 4_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (min)
Channel							
Frequency (MHz)							
20	QPSK	1	0	2389	2400	2408	25.5
20	QPSK	1	49	2382	2391	2397	
20	QPSK	1	98	2378	2379	2372	
20	QPSK	64	0	2385	2393	2398	24.5
20	QPSK	50	24	2383	2384	2381	
20	QPSK	50	99	2295	2299	2289	
20	QPSK	100	0	2387	2397	2397	24.5
20	HQAM	1	0	2384	2392	2383	
20	HQAM	1	49	2317	2319	2311	
20	HQAM	50	99	2315	2309	2304	23.5
20	HQAM	50	0	2292	2293	2198	
20	HQAM	50	50	2295	2196	2190	
20	HQAM	100	0	2291	2198	2190	23.5
20	HQAM	1	0	2194	2193	2192	
20	HQAM	1	49	2293	2291	2292	
20	HQAM	1	99	2294	2191	2198	22.5
20	HQAM	50	0	2098	2107	2083	
20	HQAM	50	24	2185	2099	2084	
20	HQAM	50	99	2100	2086	2093	20.5
20	HQAM	100	0	2108	2097	2092	
20	HQAM	1	0	1901	1886	1902	
20	HQAM	1	49	1894	1886	1881	20.5
20	HQAM	1	99	1910	1891	1896	
20	HQAM	50	0	1894	1891	1888	
20	HQAM	50	24	1891	1896	1886	20.5
20	HQAM	50	99	1884	1887	1888	
20	HQAM	100	0	1897	1893	1891	
Channel							
Frequency (MHz)							
15	QPSK	1	0	2380	2396	2395	25.5
15	QPSK	1	49	2388	2378	2378	
15	QPSK	1	74	2376	2370	2370	
15	QPSK	36	0	2380	2381	2288	24.5
15	QPSK	36	39	2281	2289	2285	
15	QPSK	36	75	2290	2290	2286	
15	HQAM	1	0	2384	2387	2381	24.5
15	HQAM	1	37	2311	2311	2304	
15	HQAM	1	73	2308	2304	2308	
15	HQAM	36	0	2196	2197	2191	23.5
15	HQAM	36	30	2198	2188	2185	
15	HQAM	36	69	2196	2186	2182	
15	HQAM	75	0	2199	2196	2192	23.5
15	HQAM	1	0	2121	2123	2292	
15	HQAM	1	74	2292	2186	2198	
15	HQAM	36	0	2080	2102	2081	22.5
15	HQAM	36	26	2104	2093	2087	
15	HQAM	36	69	2092	2085	2084	
15	HQAM	75	0	2099	2092	2089	20.5
15	HQAM	1	0	1903	1898	1901	
15	HQAM	1	37	1903	1876	1880	
15	HQAM	36	0	1884	1889	1884	20.5
15	HQAM	36	26	1884	1887	1878	
15	HQAM	36	69	1890	1894	1884	
15	HQAM	75	0	1901	1899	1893	20.5
15	HQAM	1	0	2090	2095	2092	
15	HQAM	1	115	2095	2092	2092	
Channel							
Frequency (MHz)							
10	QPSK	1	0	2393	2395	2398	25.5
10	QPSK	1	25	2372	2378	2378	
10	QPSK	1	49	2373	2377	2387	
10	QPSK	25	0	2292	2393	2390	24.5
10	QPSK	25	12	2295	2288	2284	
10	QPSK	25	26	2288	2285	2289	
10	QPSK	60	0	2295	2289	2282	24.5
10	HQAM	1	0	2378	2375	2382	
10	HQAM	1	25	2315	2312	2309	
10	HQAM	1	49	2312	2309	2298	23.5
10	HQAM	25	0	2198	2191	2197	
10	HQAM	25	12	2294	2196	2192	
10	HQAM	25	26	2196	2187	2190	23.5
10	HQAM	60	0	2191	2186	2182	
10	HQAM	1	0	2121	2219	2292	
10	HQAM	1	25	2290	2192	2196	22.5
10	HQAM	1	49	2290	2182	2198	
10	HQAM	25	0	2083	2183	2083	
10	HQAM	25	12	2102	2099	2094	22.5
10	HQAM	25	26	2098	2085	2088	
10	HQAM	50	0	2098	2089	2088	
10	HQAM	1	0	1904	1890	1900	20.5
10	HQAM	1	25	1904	1890	1890	
10	HQAM	1	49	1902	1891	1892	
10	HQAM	25	0	1894	1885	1887	20.5
10	HQAM	25	12	1883	1889	1883	
10	HQAM	25	26	1894	1893	1884	
10	HQAM	50	0	1900	1892	1891	20.5
10	HQAM	1	0	2095	2095	2095	
10	HQAM	1	115	2095	2092	2092	
Channel							
Frequency (MHz)							
5	QPSK	1	0	2387	2388	2388	25.5
5	QPSK	1	12	2381	2380	2378	
5	QPSK	1	24	2370	2374	2384	
5	QPSK	15	0	2293	2394	2398	24.5
5	QPSK	12	7	2284	2291	2284	
5	QPSK	12	13	2293	2284	2283	
5	QPSK	24	0	2290	2290	2286	24.5
5	HQAM	1	0	2377	2373	2378	
5	HQAM	1	12	2311	2316	2308	
5	HQAM	1	24	2309	2300	2300	23.5
5	HQAM	12	0	2195	2198	2193	
5	HQAM	12	11	2294	2186	2186	
5	HQAM	12	13	2196	2190	2189	23.5
5	HQAM	25	0	2197	2196	2196	
5	HQAM	1	0	2118	2295	2294	
5	HQAM	1	12	2189	2187	2281	23.5
5	HQAM	11	24	2293	2180	2190	
5	HQAM	12	0	2098	2100	2080	
5	HQAM	12	7	2102	2089	2088	22.5
5	HQAM	12	13	2100	2086	2083	
5	HQAM	25	0	2100	2092	2085	
5	HQAM	1	0	1901	1879	1902	20.5
5	HQAM	1	12	1904	1877	1874	
5	HQAM	1	24	1904	1892	1899	
5	HQAM	12	0	1887	1890	1890	20.5
5	HQAM	12	13	1886	1888	1888	
5	HQAM	25	0	1904	1893	1883	
5	HQAM	1	0	2098	2093	2093	20.5
5	HQAM	1	115	2098	2092	2092	
5	HQAM	1	115	2095	2092	2092	
Channel							
Frequency (MHz)							
3	QPSK	1	0	2389	2393	2398	25.5
3	QPSK	1	6	2381	2380	2371	
3	QPSK	1	14	2378	2379	2387	
3	QPSK	8	0	2290	2393	2390	24.5
3	QPSK	8	4	2288	2291	2285	
3	QPSK	8	7	2289	2280	2283	
3	QPSK	16	0	2291	2297	2295	24.5
3	HQAM	1	0	2332	2324	2324	
3	HQAM	1	8	2313	2315	2304	
3	HQAM	8	0	2306	2309	2304	24.5
3	HQAM	8	0	2291	2291	2191	
3	HQAM	8	4	2195	2195	2183	
3	HQAM	8	7	2195	2196	2184	23.5
3	HQAM	16	0	2182	2184	2183	
3	HQAM	1	0	2118	2217	2292	
3	HQAM	1	6	2199	2196	2198	23.5
3	HQAM	1	14	2293	2189	2188	
3	HQAM	8	0	2081	2097	2082	
3	HQAM	8	0	2099	2092	2093	22.5
3	HQAM	8	7	2095	2076	2088	
3	HQAM	16	0	2106	2092	2086	
3	HQAM	1	0	1901	1885	1895	20.5
3	HQAM	1	8	1898	1879	1879	
3	HQAM	8	0	1899	1889	1887	
3	HQAM	8	4	1890	1884	1881	20.5
3	HQAM	8	7	1893	1899	1887	
3	HQAM	16	0	1901	1891	1882	
3	HQAM	1	0	2097	2095	2095	20.5
3	HQAM	1	115	2097	2092	2092	
3	HQAM	1	115	2095	2092	2092	
Channel							
Frequency (MHz)							
1.4	QPSK	1	0	2372	2383	2375	25.5
1.4	QPSK	1	3	2381	2388	2384	
1.4	QPSK	1	6	2378	2382	2378	
1.4	QPSK	3	0	2276	2384	2380	24.5
1.4	QPSK	3	1	2284	2386	2382	
1.4	QPSK	3	1	2377	2386	2382	
1.4	QPSK	6	0	2282	2388	2387	24.5
1.4	HQAM	1	3	2306	2314	2312	
1.4	HQAM	1	3	2312	2321	2315	
1.4	HQAM	1	5	2308	2314	2310	24.5
1.4	HQAM	3	0	2297	2292	2289	
1.4	HQAM	3	1	2292	2299	2292	
1.4	HQAM	3	3	2291	2291	2288	23.5
1.4	HQAM	6	0	2291	2185	2184	
1.4	HQAM	1	0	2193	2293	2291	
1.4	HQAM	1	3	2112	2214	2212	23.5
1.4	HQAM	1	6	2108	2295	2294	
1.4	HQAM	3	0	2106	2294	2290	
1.4	HQAM	3	1	2114	2297	2290	22.5
1.4	HQAM	6	0	2092	2093	2088	
1.4	HQAM	1					



Band 5_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)
Channel							
Frequency (MHz)							
150 150.5 151							
10	QPSK	1	0	2347	2347	2348	25
10	QPSK	1	26	2351	2356	2353	
10	QPSK	1	49	2358	2353	2345	24
10	QPSK	25	12	2292	2286	2283	
10	QPSK	25	12	2272	2267	2262	24
10	QPSK	25	25	2268	2270	2264	
10	QPSK	50	0	2272	2268	2259	24
10	QPSK	1	0	2291	2292	2287	
10	HQAM	1	25	2292	2298	2292	24
10	HQAM	1	49	2298	2293	2283	
10	HQAM	25	0	2159	2165	2158	23
10	HQAM	25	12	2171	2167	2153	
10	HQAM	25	25	2168	2171	2162	23
10	HQAM	50	0	2170	2184	2182	
10	HQAM	1	0	2174	2171	2181	23
10	HQAM	1	25	2158	2150	2175	
10	HQAM	1	49	2167	2183	2177	22
10	HQAM	25	0	2068	2065	2065	
10	HQAM	25	12	2077	2072	2067	20
10	HQAM	25	25	2071	2074	2045	
10	HQAM	50	0	2073	2069	2059	20
10	HQAM	1	0	1848	1853	1858	
10	HQAM	1	25	1853	1850	1851	20
10	HQAM	1	49	1850	1853	1854	
10	HQAM	25	0	1847	1848	1845	20
10	HQAM	25	12	1848	1842	1839	
10	HQAM	25	25	1838	1848	1848	20
10	HQAM	50	0	1851	1849	1844	
Channel							
Frequency (MHz)							
150.5 150.5 151							
5	QPSK	1	0	2361	2362	2360	25
5	QPSK	1	24	2366	2363	2362	
5	QPSK	1	24	2357	2359	2353	24
5	QPSK	12	0	2283	2273	2285	
5	QPSK	12	0	2270	2274	2258	24
5	QPSK	12	12	2285	2287	2287	
5	QPSK	25	0	2268	2272	2258	24
5	HQAM	1	0	2294	2291	2293	
5	HQAM	1	12	2292	2299	2284	23
5	HQAM	1	24	2294	2288	2280	
5	HQAM	12	0	2187	2175	2187	23
5	HQAM	12	7	2171	2177	2181	
5	HQAM	12	13	2166	2169	2154	23
5	HQAM	25	0	2172	2174	2160	
5	HQAM	1	0	2188	2195	2188	23
5	HQAM	1	24	2183	2190	2178	
5	HQAM	1	24	2188	2191	2199	22
5	HQAM	12	0	2074	2080	2055	
5	HQAM	12	7	2078	2081	2059	20
5	HQAM	12	13	2071	2075	2028	
5	HQAM	25	0	2073	2076	2033	20
5	HQAM	1	0	1838	1838	1838	
5	HQAM	1	12	1859	1840	1853	20
5	HQAM	1	24	1848	1848	1848	
5	HQAM	12	0	1840	1844	1840	20
5	HQAM	12	7	1844	1837	1838	
5	HQAM	12	13	1835	1836	1846	20
5	HQAM	25	0	1843	1845	1838	
Channel							
Frequency (MHz)							
150.5 150.5 151							
3	QPSK	1	0	2339	2347	2351	25
3	QPSK	1	8	2349	2353	2348	
3	QPSK	1	8	2351	2351	2345	24
3	QPSK	8	0	2285	2258	2258	
3	QPSK	8	4	2268	2258	2254	24
3	QPSK	8	8	2283	2285	2288	
3	QPSK	16	0	2262	2260	2250	24
3	HQAM	1	0	2291	2292	2290	
3	HQAM	1	8	2287	2297	2286	24
3	HQAM	1	14	2294	2290	2273	
3	HQAM	8	4	2166	2169	2157	23
3	HQAM	8	4	2184	2162	2163	
3	HQAM	8	7	2161	2168	2157	23
3	HQAM	16	0	2166	2164	2152	
3	HQAM	1	0	2185	2187	2174	23
3	HQAM	1	8	2178	2183	2169	
3	HQAM	1	14	2181	2179	2156	22
3	HQAM	8	0	2081	2080	2081	
3	HQAM	8	4	2078	2072	2089	22
3	HQAM	8	7	2083	2072	2041	
3	HQAM	16	0	2085	2059	2059	20
3	HQAM	1	0	1848	1847	1849	
3	HQAM	1	8	1843	1847	1851	20
3	HQAM	1	14	1845	1863	1845	
3	HQAM	8	0	1838	1844	1836	20
3	HQAM	8	4	1846	1837	1836	
3	HQAM	8	7	1834	1842	1843	20
3	HQAM	16	0	1848	1844	1835	
Channel							
Frequency (MHz)							
150.7 150.5 151							
1.4	QPSK	1	0	2345	2352	2343	25
1.4	QPSK	1	3	2354	2358	2348	
1.4	QPSK	1	5	2347	2351	2339	24
1.4	QPSK	3	1	2353	2352	2347	
1.4	QPSK	3	1	2357	2352	2350	24
1.4	QPSK	3	3	2353	2357	2348	
1.4	QPSK	6	0	2268	2264	2251	24
1.4	HQAM	1	0	2279	2284	2278	
1.4	HQAM	1	5	2269	2264	2257	24
1.4	HQAM	1	5	2282	2288	2272	
1.4	HQAM	3	0	2283	2284	2254	24
1.4	HQAM	3	1	2286	2275	2260	
1.4	HQAM	3	1	2281	2283	2249	23
1.4	HQAM	6	0	2184	2171	2158	
1.4	HQAM	1	0	2174	2175	2139	23
1.4	HQAM	1	3	2184	2181	2144	
1.4	HQAM	1	6	2178	2182	2139	23
1.4	HQAM	3	0	2178	2174	2132	
1.4	HQAM	3	1	2178	2184	2144	22
1.4	HQAM	6	0	2173	2175	2147	
1.4	HQAM	6	0	2059	2060	2030	20
1.4	HQAM	1	0	1846	1860	1851	
1.4	HQAM	1	8	1846	1847	1851	20
1.4	HQAM	1	5	1842	1853	1854	
1.4	HQAM	3	0	1845	1847	1841	20
1.4	HQAM	3	1	1839	1832	1838	
1.4	HQAM	3	1	1834	1839	1841	20
1.4	HQAM	6	0	1851	1840	1842	



Band 7_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)		
Channel				2560	2560	2560			
Frequency (MHz)									
20	QPSK	1	0	23.87	23.84	23.99	25.5		
20	QPSK	1	49	23.93	23.99	23.94			
20	QPSK	1	99	23.99	24.06	24.02			
20	QPSK	64	0	22.97	23.02	23.02	24.5		
20	QPSK	50	24	23.10	23.09	23.08			
20	QPSK	50	50	23.11	23.16	23.13			
20	QPSK	100	0	22.97	23.07	23.05	24.5		
20	HQAM	1	0	23.27	23.30	23.29			
20	HQAM	1	49	23.29	23.38	23.38			
20	HQAM	1	99	23.33	23.40	23.34			
20	HQAM	50	0	21.98	22.04	22.02	23.5		
20	HQAM	50	24	22.10	22.10	22.06			
20	HQAM	50	50	22.13	22.17	22.14			
20	HQAM	100	0	22.08	22.07	22.03	23.5		
20	HQAM	1	49	22.10	22.26	22.21			
20	HQAM	1	99	22.24	22.32	22.27			
20	HQAM	50	0	21.08	21.08	21.05	22.5		
20	HQAM	50	24	21.12	21.11	21.08			
20	HQAM	50	50	21.15	21.21	21.15			
20	HQAM	100	0	21.12	21.05	21.07	20.5		
20	SSBQAM	1	0	19.20	19.27	19.13			
20	SSBQAM	1	49	19.20	19.16	19.22			
20	SSBQAM	1	99	19.12	19.17	19.11			
20	SSBQAM	50	0	19.12	19.12	19.07	20.5		
20	SSBQAM	50	24	19.22	19.14	19.10			
20	SSBQAM	50	50	19.17	19.16	19.13			
20	SSBQAM	100	0	19.23	19.11	19.05			
Channel				2575.5	2575.5	2575.5	Time-up (min)		
Frequency (MHz)									
15	QPSK	1	0	23.83	23.84	23.95	25.5		
15	QPSK	1	49	23.86	23.90	23.85			
15	QPSK	1	74	23.97	24.04	23.94			
15	QPSK	30	0	22.95	22.98	23.00	24.5		
15	QPSK	30	20	23.08	23.04	23.04			
15	QPSK	30	39	23.08	23.13	23.09			
15	QPSK	75	0	23.02	23.01	23.01	24.5		
15	HQAM	1	0	23.23	23.30	23.29			
15	HQAM	1	39	23.24	23.36	23.30			
15	HQAM	1	74	23.31	23.34	23.24	23.5		
15	HQAM	30	0	21.88	22.04	22.01			
15	HQAM	30	20	22.10	22.02	21.97			
15	HQAM	30	39	22.10	22.09	22.14	23.5		
15	HQAM	75	0	21.98	22.05	21.94			
15	HQAM	1	0	22.07	22.08	22.08	23.5		
15	HQAM	1	74	22.14	22.25	22.17			
15	HQAM	30	0	20.95	20.98	21.02	22.5		
15	HQAM	30	20	21.03	21.02	21.06			
15	HQAM	30	39	21.12	21.21	21.05			
15	HQAM	75	0	21.99	21.05	21.00	20.5		
15	SSBQAM	1	0	19.17	19.25	19.13			
15	SSBQAM	1	39	19.16	19.12	19.19			
15	SSBQAM	1	74	19.24	19.25	19.15	20.5		
15	SSBQAM	30	0	19.04	19.12	19.04			
15	SSBQAM	30	20	19.14	19.05	19.05			
15	SSBQAM	30	39	19.15	19.14	19.08	20.5		
15	SSBQAM	75	0	19.23	19.04	19.07			
Channel				2090	2100	2100	Time-up (min)		
Frequency (MHz)									
10	QPSK	1	0	23.89	23.92	23.99	25.5		
10	QPSK	1	25	23.93	23.90	23.84			
10	QPSK	1	49	23.96	24.01	23.96			
10	QPSK	25	0	22.91	22.99	22.97	24.5		
10	QPSK	25	12	23.07	23.06	23.00			
10	QPSK	25	25	23.01	23.09	23.03			
10	QPSK	50	0	22.99	23.06	23.01	24.5		
10	HQAM	1	0	23.17	23.24	23.26			
10	HQAM	1	25	23.27	23.34	23.35			
10	HQAM	1	49	23.31	23.39	23.31	23.5		
10	HQAM	25	0	21.95	22.00	21.95			
10	HQAM	25	12	22.07	22.08	22.06			
10	HQAM	25	25	22.08	22.10	22.07	23.5		
10	HQAM	50	0	22.02	22.04	22.00			
10	HQAM	1	0	22.00	22.13	22.10	23.5		
10	HQAM	1	25	22.06	22.16	22.18			
10	HQAM	1	49	22.14	22.31	22.25			
10	HQAM	25	0	20.91	21.02	20.96	22.5		
10	HQAM	25	12	21.04	21.04	21.02			
10	HQAM	25	25	21.08	21.14	21.09			
10	HQAM	50	0	21.10	21.05	21.02	20.5		
10	SSBQAM	1	0	19.15	19.19	19.19			
10	SSBQAM	1	25	19.20	19.07	19.22			
10	SSBQAM	1	49	19.19	19.09	19.03	20.5		
10	SSBQAM	25	0	19.03	19.05	19.06			
10	SSBQAM	25	12	19.21	19.07	19.09			
10	SSBQAM	25	25	19.16	19.08	19.08	20.5		
10	SSBQAM	50	0	19.18	19.04	19.09			
Channel				2077.5	2100	2102.5	Time-up (min)		
Frequency (MHz)									
5	QPSK	1	0	23.84	23.83	23.90	25.5		
5	QPSK	1	10	23.93	23.93	23.88			
5	QPSK	1	24	23.99	24.02	23.95			
5	QPSK	10	0	22.96	22.93	22.99	24.5		
5	QPSK	12	7	23.09	23.02	22.96			
5	QPSK	12	13	23.11	23.14	23.13			
5	QPSK	24	0	23.04	22.98	23.01	24.5		
5	HQAM	1	0	23.17	23.28	23.19			
5	HQAM	1	10	23.25	23.33	23.30			
5	HQAM	1	24	23.32	23.34	23.34	23.5		
5	HQAM	12	0	21.94	21.98	21.98			
5	HQAM	12	13	22.03	22.02	22.05	23.5		
5	HQAM	12	13	22.10	22.15	22.14			
5	HQAM	25	0	22.00	22.07	21.95			
5	HQAM	1	0	22.01	22.10	22.09	23.5		
5	HQAM	1	12	22.10	22.21	22.15			
5	HQAM	11	24	22.19	22.31	22.19			
5	HQAM	12	0	20.91	20.99	20.99	22.5		
5	HQAM	12	7	21.07	21.02	21.03			
5	HQAM	12	13	21.08	21.17	21.08			
5	HQAM	25	0	21.04	21.02	21.07	20.5		
5	SSBQAM	1	0	19.11	19.25	19.11			
5	SSBQAM	1	10	19.25	19.06	19.15			
5	SSBQAM	1	24	19.08	19.10	19.03	20.5		
5	SSBQAM	12	0	19.08	19.06	19.06			
5	SSBQAM	12	13	19.22	19.13	19.00			
5	SSBQAM	12	13	19.12	19.07	19.13	20.5		
5	SSBQAM	25	0	19.22	19.07	19.02			



Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
10	QPSK	1	0	2448	2450	2459			
10	QPSK	1	26	2439	2442	2440			25.7
10	QPSK	1	49	2450	2443	2448			
10	QPSK	26	0	2353	2354	2353			
10	QPSK	26	12	2360	2353	2353			24.7
10	QPSK	26	25	2358	2359	2360			
10	QPSK	50	0	2381	2353	2353			
10	QPSK	1	0	2382	2376	2378			
10	HQAM	1	26	2381	2382	2380			24.7
10	HQAM	1	49	2387	2385	2378			
10	HQAM	26	0	2254	2255	2253			
10	HQAM	26	12	2261	2255	2254			23.7
10	HQAM	26	25	2259	2260	2257			
10	HQAM	50	0	2280	2255	2252			
10	HQAM	1	0	2254	2254	2262			
10	HQAM	1	26	2271	2276	2274			23.7
10	HQAM	1	49	2273	2254	2239			
10	HQAM	26	0	2127	2136	2136			
10	HQAM	26	12	2149	2155	2158			22.7
10	HQAM	26	25	2153	2160	2161			
10	HQAM	50	0	2141	2155	2159			
10	256QAM	1	0	1947	1986	1947			20.7
10	256QAM	1	26	1953	1973	1949			
10	256QAM	1	49	1964	1955	1937			
10	256QAM	26	0	1944	1946	1940			
10	256QAM	26	12	1945	1946	1946			20.7
10	256QAM	26	25	1939	1941	1943			
10	256QAM	50	0	1951	1943	1941			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
5	QPSK	1	0	2448	2447	2439			
5	QPSK	1	26	2448	2448	2440			25.7
5	QPSK	1	24	2447	2449	2446			
5	QPSK	12	0	2362	2354	2355			
5	QPSK	12	6	2355	2359	2359			24.7
5	QPSK	12	12	2355	2354	2351			
5	QPSK	25	0	2358	2352	2352			
5	HQAM	1	0	2383	2383	2373			
5	HQAM	1	12	2380	2379	2373			24.7
5	HQAM	1	24	2382	2380	2376			
5	HQAM	12	0	2266	2262	2259			
5	HQAM	12	6	2258	2264	2254			23.7
5	HQAM	12	12	2265	2259	2254			
5	HQAM	25	0	2259	2253	2253			
5	HQAM	1	0	2224	2237	2286			
5	HQAM	1	0	2248	2274	2299			23.7
5	HQAM	1	24	2223	2273	2249			
5	HQAM	12	0	2135	2164	2160			
5	HQAM	12	6	2145	2167	2161			22.7
5	HQAM	12	12	2135	2180	2142			
5	HQAM	25	0	2111	2157	2150			
5	256QAM	1	0	1938	1936	1945			
5	256QAM	1	12	1950	1984	1939			20.7
5	256QAM	1	24	1952	1947	1954			
5	256QAM	12	0	1943	1938	1932			
5	256QAM	12	6	1938	1932	1945			20.7
5	256QAM	12	12	1938	1938	1934			
5	256QAM	25	0	1947	1933	1933			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
3	QPSK	1	0	2448	2437	2433			
3	QPSK	1	6	2434	2443	2436			25.7
3	QPSK	1	11	2443	2433	2436			
3	QPSK	6	0	2343	2354	2348			
3	QPSK	6	4	2352	2349	2351			24.7
3	QPSK	6	8	2349	2358	2351			
3	QPSK	16	0	2358	2351	2345			
3	HQAM	1	0	2376	2386	2370			24.7
3	HQAM	1	6	2376	2379	2372			
3	HQAM	1	14	2385	2383	2380			
3	HQAM	6	0	2252	2251	2249			
3	HQAM	6	4	2260	2245	2242			23.7
3	HQAM	6	7	2250	2250	2254			
3	HQAM	16	0	2267	2250	2245			
3	HQAM	1	0	2247	2255	2267			23.7
3	HQAM	1	6	2266	2272	2274			
3	HQAM	1	14	2266	2248	2233			
3	HQAM	6	0	2117	2131	2155			
3	HQAM	6	4	2140	2152	2159			22.7
3	HQAM	6	7	2147	2153	2153			
3	HQAM	16	0	2131	2149	2150			
3	256QAM	1	0	1944	1967	1941			
3	256QAM	1	6	1949	1958	1948			20.7
3	256QAM	1	14	1958	1954	1949			
3	256QAM	6	0	1943	1936	1930			
3	256QAM	6	4	1943	1939	1943			20.7
3	256QAM	6	7	1937	1941	1942			
3	256QAM	16	0	1943	1937	1939			
Channel									
Frequency (MHz)									
707.5 717.5 721.5									
1.4	QPSK	1	0	2444	2433	2436			
1.4	QPSK	1	3	2444	2442	2438			25.7
1.4	QPSK	1	5	2437	2436	2429			
1.4	QPSK	1	8	2442	2438	2437			
1.4	QPSK	3	1	2449	2442	2440			
1.4	QPSK	3	3	2443	2443	2437			24.7
1.4	QPSK	6	0	2359	2347	2343			
1.4	HQAM	1	0	2376	2367	2371			
1.4	HQAM	1	3	2376	2366	2377			24.7
1.4	HQAM	1	5	2370	2369	2363			
1.4	HQAM	3	0	2353	2347	2347			
1.4	HQAM	3	3	2366	2351	2350			23.7
1.4	HQAM	3	5	2351	2350	2343			
1.4	HQAM	6	0	2257	2256	2249			
1.4	HQAM	1	0	2234	2261	2237			23.7
1.4	HQAM	1	3	2245	2272	2234			
1.4	HQAM	1	6	2247	2263	2220			
1.4	HQAM	3	0	2228	2256	2239			
1.4	HQAM	3	1	2228	2261	2237			22.7
1.4	HQAM	6	0	2123	2150	2123			
1.4	256QAM	1	0	1938	1958	1939			
1.4	256QAM	1	3	1945	1971	1941			20.7
1.4	256QAM	1	5	1951	1954	1953			
1.4	256QAM	3	0	1943	1943	1936			
1.4	256QAM	3	3	1938	1942	1937			20.7
1.4	256QAM	3	5	1939	1931	1938			
1.4	256QAM	6	0	1949	1937	1939			



Band 13_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel				782		
Frequency (MHz)						
10	QPSK	1	0	23.53		
10	QPSK	1	25	23.51		
10	QPSK	1	49	23.57		
10	QPSK	25	0	22.60		
10	QPSK	25	12	22.61		
10	QPSK	25	25	22.65		
10	QPSK	50	0	22.61		
10	16QAM	1	0	22.82		
10	16QAM	1	25	22.86		
10	16QAM	1	49	22.88		
10	16QAM	25	0	21.81		
10	16QAM	25	12	21.86		
10	16QAM	25	25	21.69		
10	16QAM	50	0	21.84		
10	16QAM	1	0	21.90		
10	16QAM	1	25	21.81		
10	16QAM	1	49	21.78		
10	16QAM	25	0	20.95		
10	16QAM	25	12	20.89		
10	16QAM	25	25	20.71		
10	16QAM	50	0	20.88		
10	256QAM	1	0	18.25		
10	256QAM	1	25	18.50		
10	256QAM	1	49	18.70		
10	256QAM	25	0	18.41		
10	256QAM	25	12	18.46		
10	256QAM	25	25	18.59		
10	256QAM	50	0	18.44		
Channel				2305	2305	2305
Frequency (MHz)						
5	QPSK	1	0	23.45	23.48	23.22
5	QPSK	1	25	23.50	23.54	23.34
5	QPSK	1	24	23.55	23.56	23.31
5	QPSK	12	0	22.58	22.59	22.32
5	QPSK	12	12	22.62	22.63	22.40
5	QPSK	12	13	22.65	22.67	22.38
5	QPSK	25	0	22.65	22.63	22.37
5	16QAM	1	0	22.84	22.78	22.50
5	16QAM	1	12	22.75	22.82	22.48
5	16QAM	1	24	22.84	22.88	22.51
5	16QAM	12	0	21.82	21.84	21.36
5	16QAM	12	7	21.88	21.84	21.43
5	16QAM	12	13	21.84	21.71	21.42
5	16QAM	25	0	21.70	21.63	21.41
5	16QAM	1	0	21.73	21.68	21.42
5	16QAM	1	25	21.68	21.61	21.40
5	16QAM	1	24	21.77	21.81	21.48
5	16QAM	12	0	20.86	20.70	20.43
5	16QAM	12	7	20.72	20.67	20.45
5	16QAM	12	13	20.71	20.75	20.43
5	16QAM	25	0	20.73	20.66	20.42
5	256QAM	1	0	18.16	18.24	18.22
5	256QAM	1	12	18.43	18.45	18.47
5	256QAM	1	24	18.65	18.67	18.66
5	256QAM	12	0	18.37	18.35	18.38
5	256QAM	12	7	18.48	18.36	18.40
5	256QAM	12	13	18.58	18.55	18.54
5	256QAM	25	0	18.37	18.34	18.41



Band 14_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	23.68	23.68	23.68
10	QPSK	1	49	23.68	23.68	23.68
10	QPSK	25	0	22.63	22.63	22.63
10	QPSK	25	12	22.65	22.65	22.65
10	QPSK	25	25	22.74	22.74	22.74
10	QPSK	50	0	22.97	22.97	22.97
10	16QAM	1	0	23.92	23.92	23.92
10	16QAM	1	25	22.99	22.99	22.99
10	16QAM	1	49	22.97	22.97	22.97
10	16QAM	25	0	21.85	21.85	21.85
10	16QAM	25	12	21.88	21.88	21.88
10	16QAM	25	25	21.73	21.73	21.73
10	16QAM	50	0	21.88	21.88	21.88
10	16QAM	1	0	21.90	21.90	21.90
10	16QAM	1	25	21.95	21.95	21.95
10	16QAM	1	49	21.99	21.99	21.99
10	16QAM	25	0	20.87	20.87	20.87
10	16QAM	25	12	20.89	20.89	20.89
10	16QAM	25	25	20.76	20.76	20.76
10	16QAM	50	0	20.87	20.87	20.87
10	256QAM	1	0	18.45	18.45	18.45
10	256QAM	1	25	18.58	18.58	18.58
10	256QAM	1	49	18.74	18.74	18.74
10	256QAM	25	0	18.50	18.50	18.50
10	256QAM	25	12	18.44	18.44	18.44
10	256QAM	25	25	18.47	18.47	18.47
10	256QAM	50	0	18.50	18.50	18.50
Channel						
Frequency (MHz)						
5	QPSK	1	0	23.68	23.68	23.68
5	QPSK	1	49	23.63	23.63	23.63
5	QPSK	1	24	23.65	23.64	23.58
5	QPSK	12	0	22.71	22.65	22.64
5	QPSK	12	12	22.76	22.73	22.70
5	QPSK	12	13	22.71	22.73	22.68
5	QPSK	25	0	22.89	22.86	22.83
5	16QAM	1	0	22.91	22.92	22.97
5	16QAM	1	12	23.09	23.02	22.98
5	16QAM	1	24	22.98	23.00	22.99
5	16QAM	12	0	21.73	21.68	21.64
5	16QAM	12	7	21.77	21.77	21.78
5	16QAM	12	13	21.73	21.72	21.66
5	16QAM	25	0	21.71	21.68	21.64
5	16QAM	1	0	21.87	21.89	21.85
5	16QAM	1	49	21.93	22.00	21.94
5	16QAM	1	24	21.90	21.95	21.92
5	16QAM	12	0	20.89	20.71	20.69
5	16QAM	12	7	20.78	20.83	20.75
5	16QAM	12	13	20.75	20.76	20.69
5	16QAM	25	0	20.72	20.67	20.69
5	256QAM	1	0	18.38	18.37	18.42
5	256QAM	1	12	18.55	18.48	18.55
5	256QAM	1	24	18.74	18.72	18.65
5	256QAM	12	0	18.50	18.42	18.48
5	256QAM	12	7	18.38	18.34	18.35
5	256QAM	12	13	18.47	18.46	18.39
5	256QAM	25	0	18.40	18.47	18.44



Band 17_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (sec)	
Channel				700	710	711		
Frequency (MHz)				700.5	710	711.5		
10	QPSK	1	0	2335	2331	2332	25	
10	QPSK	1	24	2338	2337	2337		
10	QPSK	1	48	2337	2345	2338		
10	QPSK	25	0	2238	2230	2241	24	
10	QPSK	25	12	2232	2250	2248		
10	QPSK	25	24	2239	2237	2235		
10	QPSK	50	0	2247	2248	2245	24	
10	QPSK	50	12	2270	2288	2289		
10	QPSK	50	24	2275	2278	2274		
10	HQAM	1	0	2278	2280	2277	23	
10	HQAM	1	48	2141	2141	2141		
10	HQAM	1	96	2155	2148	2147		
10	HQAM	25	0	2157	2154	2151	23	
10	HQAM	25	12	2144	2148	2142		
10	HQAM	25	24	2155	2154	2150		
10	HQAM	50	0	2157	2159	2158	23	
10	HQAM	50	12	2153	2160	2148		
10	HQAM	50	24	2043	2043	2044		
10	HQAM	25	12	2039	2051	2051	22	
10	HQAM	25	24	2039	2038	2038		
10	HQAM	50	0	2049	2047	2045		
10	256QAM	1	0	1834	1839	1822	20	
10	256QAM	1	24	1843	1840	1841		
10	256QAM	1	48	1854	1847	1838		
10	256QAM	25	0	1831	1827	1830	20	
10	256QAM	25	12	1830	1846	1834		
10	256QAM	25	24	1840	1837	1839		
10	256QAM	50	0	1827	1840	1831	20	
Channel				2331.5	2331.5	2331.5		
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	2333	2328	2327	25	
5	QPSK	1	24	2343	2342	2330		
5	QPSK	1	48	2343	2344	2340		
5	QPSK	12	0	2244	2246	2241	24	
5	QPSK	12	12	2251	2248	2243		
5	QPSK	12	24	2253	2252	2245		
5	QPSK	25	0	2249	2247	2242	24	
5	HQAM	1	0	2265	2267	2266		
5	HQAM	1	12	2274	2278	2270		
5	HQAM	1	24	2278	2278	2275	24	
5	HQAM	12	0	2148	2147	2146		
5	HQAM	12	12	2153	2152	2145		
5	HQAM	12	24	2154	2152	2147	23	
5	HQAM	25	0	2151	2148	2144		
5	HQAM	1	0	2157	2166	2163		
5	HQAM	1	24	2166	2170	2164	23	
5	HQAM	1	48	2179	2178	2167		
5	HQAM	12	0	2030	2040	2047		
5	HQAM	12	12	2037	2035	2031	22	
5	HQAM	12	24	2037	2038	2032		
5	HQAM	25	0	2031	2040	2041		
5	256QAM	1	0	1825	1831	1816	20	
5	256QAM	1	12	1840	1845	1842		
5	256QAM	1	24	1852	1839	1837		
5	256QAM	12	0	1828	1825	1825	20	
5	256QAM	12	12	1828	1833	1830		
5	256QAM	12	24	1836	1837	1837		
5	256QAM	25	0	1820	1830	1831		







Band 26_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Max	Power Min	Turn-up (dB)
Channel									
Frequency (MHz)									
15	QPSK	1	0	2340	2340	2341			25
15	QPSK	1	74	2351	2348	2333			
15	QPSK	36	0	2263	2264	2257			24
15	QPSK	36	20	2261	2263	2255			
15	QPSK	36	39	2262	2262	2254			
15	QPSK	75	0	2268	2264	2257			
15	QPSK	1	0	2287	2279	2278			24
15	HQAM	1	37	2278	2278	2276			
15	HQAM	1	74	2274	2274	2264			
15	HQAM	36	0	2161	2160	2159			23
15	HQAM	36	20	2164	2164	2156			
15	HQAM	36	39	2161	2162	2158			
15	HQAM	75	0	2188	2184	2159			
15	HQAM	1	0	2173	2184	2186			23
15	HQAM	1	37	2171	2174	2158			
15	HQAM	1	74	2173	2168	2168			
15	HQAM	36	0	2038	2063	2065			22
15	HQAM	36	20	2032	2069	2066			
15	HQAM	36	39	2035	2068	2048			
15	HQAM	75	0	2027	2066	2059			
15	256QAM	1	0	1854	1853	1858			20
15	256QAM	1	37	1859	1853	1850			
15	256QAM	1	74	1850	1857	1849			
15	256QAM	36	0	1848	1850	1850			
15	256QAM	36	20	1848	1847	1836			20
15	256QAM	36	39	1837	1841	1842			
15	256QAM	75	0	1848	1851	1839			
Channel									
Frequency (MHz)									
10	QPSK	1	0	2354	2339	2345			25
10	QPSK	1	26	2338	2340	2342			
10	QPSK	1	49	2342	2349	2329			
10	QPSK	26	0	2259	2255	2255			24
10	QPSK	26	0	2263	2260	2250			
10	QPSK	26	26	2262	2267	2249			
10	QPSK	50	0	2264	2264	2253			
10	HQAM	1	0	2262	2275	2272			24
10	HQAM	1	26	2276	2273	2273			
10	HQAM	1	49	2273	2271	2262			
10	HQAM	26	0	2167	2169	2167			
10	HQAM	26	12	2157	2158	2153			23
10	HQAM	26	26	2167	2162	2154			
10	HQAM	50	0	2169	2163	2150			
10	HQAM	1	0	2173	2162	2168			23
10	HQAM	1	26	2168	2174	2159			
10	HQAM	1	49	2171	2160	2168			
10	HQAM	26	0	2022	2060	2061			22
10	HQAM	26	12	2044	2067	2057			
10	HQAM	26	26	2057	2062	2042			
10	HQAM	50	0	2062	2059	2051			20
10	256QAM	1	0	1851	1849	1855			
10	256QAM	1	26	1849	1847	1847			
10	256QAM	1	49	1849	1848	1836			
10	256QAM	26	0	1841	1845	1843			20
10	256QAM	26	12	1848	1845	1830			
10	256QAM	26	26	1835	1840	1842			
10	256QAM	50	0	1845	1841	1837			
Channel									
Frequency (MHz)									
5	QPSK	1	0	2353	2340	2347			25
5	QPSK	1	12	2337	2344	2335			
5	QPSK	1	24	2338	2342	2339			
5	QPSK	12	0	2260	2255	2257			24
5	QPSK	12	7	2257	2258	2253			
5	QPSK	12	14	2260	2252	2256			
5	QPSK	26	0	2262	2264	2248			
5	HQAM	1	0	2267	2278	2274			24
5	HQAM	1	12	2273	2279	2272			
5	HQAM	1	24	2264	2267	2258			
5	HQAM	12	0	2167	2168	2149			23
5	HQAM	12	14	2159	2161	2147			
5	HQAM	12	13	2158	2160	2153			
5	HQAM	26	0	2164	2164	2157			
5	HQAM	1	0	2172	2160	2163			23
5	HQAM	1	12	2169	2171	2168			
5	HQAM	1	24	2171	2159	2168			
5	HQAM	12	0	2020	2034	2037			22
5	HQAM	12	7	2046	2060	2052			
5	HQAM	12	13	2069	2067	2049			
5	HQAM	26	0	2065	2057	2057			20
5	256QAM	1	0	1854	1849	1846			
5	256QAM	1	12	1859	1848	1842			
5	256QAM	1	24	1849	1858	1830			
5	256QAM	12	0	1845	1841	1845			20
5	256QAM	12	7	1845	1839	1829			
5	256QAM	12	13	1827	1841	1838			
5	256QAM	26	0	1848	1843	1838			
Channel									
Frequency (MHz)									
3	QPSK	1	0	2347	2344	2345			25
3	QPSK	1	8	2341	2346	2334			
3	QPSK	1	14	2351	2344	2327			
3	QPSK	8	0	2262	2259	2249			24
3	QPSK	8	4	2262	2258	2250			
3	QPSK	8	7	2258	2258	2256			
3	QPSK	16	0	2269	2264	2251			
3	HQAM	1	0	2277	2277	2272			24
3	HQAM	1	8	2276	2269	2270			
3	HQAM	1	14	2271	2268	2262			
3	HQAM	8	0	2154	2157	2156			23
3	HQAM	8	4	2154	2160	2152			
3	HQAM	8	7	2151	2154	2152			
3	HQAM	16	0	2164	2156	2153			
3	HQAM	1	0	2165	2156	2168			23
3	HQAM	1	8	2169	2173	2163			
3	HQAM	1	14	2173	2163	2168			
3	HQAM	8	0	2029	2058	2060			22
3	HQAM	8	4	2044	2063	2053			
3	HQAM	8	7	2069	2065	2059			
3	HQAM	16	0	2051	2059	2058			20
3	256QAM	1	0	1857	1849	1856			
3	256QAM	1	8	1859	1849	1846			
3	256QAM	1	14	1841	1856	1836			
3	256QAM	8	0	1844	1850	1845			20
3	256QAM	8	4	1846	1843	1833			
3	256QAM	8	7	1835	1836	1832			
3	256QAM	16	0	1848	1848	1833			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	2357	2342	2341			25
1.4	QPSK	1	0	2358	2354	2349			
1.4	QPSK	1	5	2353	2344	2331			
1.4	QPSK	3	0	2359	2345	2341			
1.4	QPSK	3	0	2357	2352	2346			24
1.4	QPSK	3	3	2359	2349	2344			
1.4	QPSK	6	0	2267	2267	2246			
1.4	HQAM	1	0	2292	2282	2289			24
1.4	HQAM	1	3	2295	2284	2274			
1.4	HQAM	3	0	2288	2274	2281			
1.4	HQAM	3	0	2270	2257	2249			
1.4	HQAM	3	1	2277	2262	2252			
1.4	HQAM	3	0	2268	2260	2244			23
1.4	HQAM	6	0	2171	2185	2151			
1.4	HQAM	1	0	2144	2174	2152			
1.4	HQAM	1	0	2169	2162	2158			23
1.4	HQAM	1	5	2144	2174	2152			
1.4	HQAM	3	0	2146	2168	2150			
1.4	HQAM	3	1	2151	2173	2158			
1.4	HQAM	3	3	2144	2171	2157			
1.4	HQAM	6	0	2027	2061	2050			22
1.4	256QAM	1	0	1853	1851	1855			
1.4	256QAM	1	3	1858	1847	1850			
1.4	256QAM	3	0	1841	1847	1830			20
1.4	256QAM	3	1	1838	1844	1830			
1.4	256QAM	3	0	1830	1835	1839			
1.4	256QAM	6	0	1844	1843	1838			20



Band 30_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2387			25.7
10	QPSK	1	25	2388			
10	QPSK	1	49	2385			
10	QPSK	25	0	2290			24.7
10	QPSK	25	12	2294			
10	QPSK	25	25	2296			
10	16QAM	1	0	2321			24.7
10	16QAM	1	25	2325			
10	16QAM	1	49	2323			
10	16QAM	25	0	2188			23.7
10	16QAM	25	12	2197			
10	16QAM	25	25	2194			
10	16QAM	50	0	2193			23.7
10	16QAM	1	0	2196			
10	16QAM	1	25	2217			
10	16QAM	1	49	2202			22.7
10	16QAM	25	0	2092			
10	16QAM	25	12	2182			
10	16QAM	25	25	2095			20.7
10	16QAM	50	0	2098			
10	256QAM	1	0	1920			
10	256QAM	1	25	1923			20.7
10	256QAM	1	49	1913			
10	256QAM	25	0	1896			
10	256QAM	25	12	1906			20.7
10	256QAM	25	25	1903			
10	256QAM	50	0	1903			
Channel							
Frequency (MHz)							
5	QPSK	1	0	2375	2379	2386	25.7
5	QPSK	1	24	2382	2386	2390	
5	QPSK	1	24	2385	2387	2379	
5	QPSK	12	0	2287	2289	2294	24.7
5	QPSK	12	12	2298	2294	2298	
5	QPSK	12	12	2289	2283	2286	
5	QPSK	25	0	2207	2204	2206	24.7
5	16QAM	1	0	2307	2310	2317	
5	16QAM	1	12	2318	2317	2319	
5	16QAM	1	24	2324	2318	2329	23.7
5	16QAM	12	0	2201	2198	2200	
5	16QAM	12	12	2201	2196	2196	
5	16QAM	25	0	2158	2154	2154	23.7
5	16QAM	1	0	2203	2208	2187	
5	16QAM	1	24	2216	2209	2183	
5	16QAM	12	0	2034	2036	2033	22.7
5	16QAM	12	12	2105	2102	2096	
5	16QAM	12	12	2105	2096	2095	
5	16QAM	25	0	2101	2100	2081	20.7
5	256QAM	1	0	1911	1919	1916	
5	256QAM	1	12	1921	1919	1922	
5	256QAM	1	24	1906	1905	1907	20.7
5	256QAM	12	0	1833	1838	1800	
5	256QAM	12	7	1899	1908	1896	
5	256QAM	12	12	1903	1903	1909	20.7
5	256QAM	25	0	1903	1896	1901	



Band 66_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Mid Ch./Freq	Power High Ch./Freq	Time-up (sec)	
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.83	23.87	23.84	20.5	
20	QPSK	4	49	23.83	23.85	23.72		
20	QPSK	1	99	23.75	23.80	23.82		
20	QPSK	8	0	22.94	22.97	22.94	24.5	
20	QPSK	50	24	22.98	22.99	22.90		
20	QPSK	50	99	22.94	22.95	22.92		
20	QPSK	100	0	22.92	22.93	22.91	24.5	
20	HQAM	1	0	21.28	21.30	21.20		
20	HQAM	1	49	21.18	21.19	21.04		
20	HQAM	50	99	21.09	21.09	21.01	23.5	
20	HQAM	50	0	21.03	21.06	21.07		
20	HQAM	50	24	21.09	21.04	21.01		
20	HQAM	50	99	21.05	21.04	21.04	23.5	
20	HQAM	100	0	21.08	21.08	21.00		
20	HQAM	1	49	22.06	22.07	21.97		
20	HQAM	1	99	22.01	22.05	21.87	22.5	
20	HQAM	50	0	20.08	21.00	20.81		
20	HQAM	50	24	21.01	20.97	20.79		
20	HQAM	50	99	20.95	20.98	20.86	20.5	
20	HQAM	100	0	21.01	20.93	20.91		
20	HQAM	1	0	18.91	18.90	18.96		
20	HQAM	1	49	18.98	18.94	18.89	20.5	
20	HQAM	50	99	18.92	18.98	18.90		
20	HQAM	50	0	18.87	18.88	18.80		
20	HQAM	50	24	18.95	18.92	18.84	20.5	
20	HQAM	50	99	18.93	18.90	18.86		
20	HQAM	100	0	18.92	18.90	18.99		
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.93	23.96	23.74	20.5	
15	QPSK	1	49	23.77	23.83	23.82		
15	QPSK	1	74	23.70	23.75	23.54		
15	QPSK	36	0	22.84	22.88	22.79	24.5	
15	QPSK	36	26	22.92	22.98	22.86		
15	QPSK	36	39	22.89	22.92	22.81		
15	QPSK	75	0	22.89	22.88	22.88	24.5	
15	HQAM	1	0	21.21	21.25	21.13		
15	HQAM	1	37	21.17	21.09	21.02		
15	HQAM	1	75	21.00	21.00	20.97	23.5	
15	HQAM	36	0	21.83	21.98	21.78		
15	HQAM	36	26	21.98	21.90	21.85		
15	HQAM	36	39	21.98	21.92	21.78	23.5	
15	HQAM	75	0	21.95	21.95	21.92		
15	HQAM	1	0	21.98	22.14	22.00		
15	HQAM	1	74	21.97	22.00	21.81	22.5	
15	HQAM	36	0	20.87	20.95	20.81		
15	HQAM	36	26	20.97	20.98	20.87		
15	HQAM	36	39	20.87	20.98	20.78	20.5	
15	HQAM	75	0	20.91	20.96	20.81		
15	HQAM	1	0	18.90	18.97	18.88		
15	HQAM	1	37	18.90	18.94	18.84	20.5	
15	HQAM	36	75	18.90	18.98	18.91		
15	HQAM	36	26	18.79	18.89	18.90		
15	HQAM	36	39	18.91	18.98	18.81	20.5	
15	HQAM	75	0	18.89	18.95	18.89		
15	HQAM	75	0	18.89	18.95	18.89		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.93	23.88	23.76	20.5	
10	QPSK	1	25	23.82	23.80	23.85		
10	QPSK	1	49	23.68	23.74	23.64		
10	QPSK	25	0	22.85	22.90	22.79	24.5	
10	QPSK	25	12	22.92	22.90	22.86		
10	QPSK	25	25	22.94	22.98	22.89		
10	QPSK	50	0	22.83	22.86	22.84	24.5	
10	HQAM	1	0	21.23	21.25	21.19		
10	HQAM	1	25	21.13	21.12	21.09		
10	HQAM	1	49	21.08	21.07	21.00	23.5	
10	HQAM	25	0	21.87	21.98	21.87		
10	HQAM	25	12	21.89	21.84	21.81		
10	HQAM	25	25	21.85	21.88	21.79	23.5	
10	HQAM	50	0	21.88	21.88	21.80		
10	HQAM	1	0	22.00	22.08	21.99		
10	HQAM	1	25	22.02	22.03	21.80	22.5	
10	HQAM	1	49	22.00	22.05	21.82		
10	HQAM	25	0	20.84	20.98	20.83		
10	HQAM	25	12	20.97	20.92	20.83	22.5	
10	HQAM	25	25	20.91	20.94	20.84		
10	HQAM	50	0	20.94	20.89	20.81		
10	HQAM	1	25	18.90	18.90	18.98	20.5	
10	HQAM	1	49	19.02	19.03	18.97		
10	HQAM	25	0	18.85	18.86	18.87		
10	HQAM	25	12	18.90	18.89	18.86	20.5	
10	HQAM	25	25	18.89	18.95	18.80		
10	HQAM	50	0	18.88	18.81	18.98		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.92	23.93	23.78	20.5	
5	QPSK	1	12	23.74	23.75	23.66		
5	QPSK	1	24	23.68	23.75	23.58		
5	QPSK	12	0	22.87	22.97	22.78	24.5	
5	QPSK	12	7	22.86	22.92	22.88		
5	QPSK	12	13	22.90	22.89	22.81		
5	QPSK	24	0	22.82	22.83	22.88	24.5	
5	HQAM	1	0	21.24	21.29	21.13		
5	HQAM	1	12	21.16	21.17	21.00		
5	HQAM	1	24	21.09	21.03	21.07	23.5	
5	HQAM	12	0	21.87	21.88	21.84		
5	HQAM	12	13	21.96	21.90	21.85		
5	HQAM	12	13	21.88	21.88	21.83	23.5	
5	HQAM	25	0	21.87	21.81	21.84		
5	HQAM	1	0	21.08	22.07	22.04		
5	HQAM	1	12	22.02	22.03	21.83	22.5	
5	HQAM	11	24	21.91	22.00	21.78		
5	HQAM	12	0	20.98	20.98	20.95		
5	HQAM	12	7	21.00	20.95	20.84	22.5	
5	HQAM	12	13	20.99	20.96	20.82		
5	HQAM	25	0	21.00	20.92	20.85		
5	HQAM	1	0	18.96	18.96	18.96	20.5	
5	HQAM	1	12	18.95	18.97	18.96		
5	HQAM	1	24	18.99	19.03	19.05		
5	HQAM	12	0	18.92	18.86	18.88	20.5	
5	HQAM	12	13	18.92	18.95	18.82		
5	HQAM	25	0	18.87	18.86	18.90		
Channel								
Frequency (MHz)								
3	QPSK	1	0	23.83	23.88	23.75	20.5	
3	QPSK	1	6	23.81	23.83	23.68		
3	QPSK	1	14	23.70	23.71	23.61		
3	QPSK	8	0	22.88	22.96	22.83	24.5	
3	QPSK	8	4	22.94	22.99	22.89		
3	QPSK	8	7	22.94	22.98	22.75		
3	QPSK	16	0	22.86	22.91	22.84	24.5	
3	HQAM	1	0	21.23	21.23	21.19		
3	HQAM	1	8	21.18	21.17	21.00		
3	HQAM	1	14	21.06	21.06	20.90	23.5	
3	HQAM	8	0	21.84	21.95	21.87		
3	HQAM	8	4	21.91	21.88	21.91		
3	HQAM	8	7	21.04	21.06	21.77	23.5	
3	HQAM	16	0	21.96	21.80	21.87		
3	HQAM	1	0	21.07	22.10	21.97		
3	HQAM	1	6	21.06	22.05	21.99	22.5	
3	HQAM	1	14	21.07	21.96	21.80		
3	HQAM	8	1	20.88	20.91	20.80		
3	HQAM	16	0	21.00	20.90	20.85	22.5	
3	HQAM	8	7	20.89	20.94	20.80		
3	HQAM	16	0	20.96	20.98	20.88		
3	HQAM	1	0	18.89	18.99	18.95	20.5	
3	HQAM	1	8	19.00	18.98	18.83		
3	HQAM	8	0	18.77	18.80	18.86		
3	HQAM	8	4	18.84	18.92	18.80	20.5	
3	HQAM	8	7	18.99	18.92	18.78		
3	HQAM	16	0	18.92	18.85	18.93		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	23.78	23.79	23.62	20.5	
1.4	QPSK	1	3	23.81	23.82	23.70		
1.4	QPSK	1	6	23.75	23.77	23.61		
1.4	QPSK	3	0	22.89	22.95	22.87	24.5	
1.4	QPSK	3	1	22.95	22.98	22.89		
1.4	QPSK	3	3	23.81	23.82	23.63		
1.4	QPSK	6	0	22.87	22.97	22.71	24.5	
1.4	HQAM	1	0	21.06	21.12	20.99		
1.4	HQAM	1	3	22.17	22.19	22.01		
1.4	HQAM	1	5	23.11	23.12	22.94	24.5	
1.4	HQAM	3	0	22.87	22.90	22.76		
1.4	HQAM	3	1	22.95	22.99	22.79		
1.4	HQAM	3	3	22.87	22.91	22.76	23.5	
1.4	HQAM	6	0	21.02	21.03	21.77		
1.4	HQAM	1	0	21.83	22.00	21.92		
1.4	HQAM	1	3	21.92	22.13	21.88	23.5	
1.4	HQAM	1	6	21.88	22.08	21.88		
1.4	HQAM	3	0	21.83	22.04	21.87		
1.4	HQAM	3	1	22.05	22.05	21.91	23.5	
1.4	HQAM	3	3	21.92	22.04	21.84		
1.4	HQAM	6	0	20.78	20.90	20.73		
1.4	HQAM	1	0	18.87	18.90	18.86	20.5	
1.4	HQAM	1	1	18.99	19.00	18.79		
1.4	HQAM	1	5	18.92	18.98	18.98		
1.4	HQAM	1	6	18.84	18.85	18.79	20.5	
1.4	HQAM	3	1	18.78	18.90	18.85		
1.4	HQAM	3	3	18.92	18.89	18.85		
1.4	HQAM	6	0	18.85	18.80	18.98	20.5	



Band 71_Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Time-up	Time-down	Time-up			
Channel				13022	13022	13022	13022					
Frequency (MHz)				693	693	693						
20	QPSK	1	0	2348	2348	2337	25					
20	QPSK	1	49	2342	2341	2337						
20	QPSK	1	99	2336	2339	2338						
20	QPSK	60	0	2257	2258	2248	24					
20	QPSK	50	24	2254	2249	2248						
20	QPSK	50	50	2258	2251	2250						
20	HQAM	100	0	2251	2252	2248	24					
20	HQAM	1	0	2288	2282	2274						
20	HQAM	1	49	2277	2277	2276						
20	HQAM	1	99	2271	2272	2271	23					
20	HQAM	50	0	2159	2153	2148						
20	HQAM	50	24	2161	2161	2149						
20	HQAM	50	50	2158	2153	2150	23					
20	HQAM	100	0	2159	2148	2148						
20	HQAM	1	0	2173	2167	2163						
20	HQAM	1	49	2158	2150	2158	22					
20	HQAM	1	99	2159	2163	2160						
20	HQAM	50	0	2053	2056	2047						
20	HQAM	50	24	2083	2054	2051	20					
20	HQAM	50	50	2080	2058	2053						
20	HQAM	100	0	2081	2052	2049						
20	SSBQAM	1	0	1858	1844	1837	20					
20	SSBQAM	1	49	1857	1832	1846						
20	SSBQAM	1	99	1846	1845	1848						
20	SSBQAM	50	0	1847	1843	1830	20					
20	SSBQAM	50	24	1841	1835	1829						
20	SSBQAM	50	50	1835	1835	1827						
20	SSBQAM	100	0	1843	1838	1829	20					
Channel				13118	13118	13118				13118		
Frequency (MHz)				670.5	680.5	690.5						
15	QPSK	1	0	2341	2348	2329	25					
15	QPSK	1	49	2340	2337	2330						
15	QPSK	1	74	2325	2332	2327						
15	QPSK	30	0	2249	2248	2241	24					
15	QPSK	30	20	2250	2245	2240						
15	QPSK	30	39	2247	2241	2244						
15	QPSK	75	0	2247	2245	2242	24					
15	HQAM	1	0	2288	2282	2271						
15	HQAM	1	39	2275	2267	2268						
15	HQAM	1	74	2268	2270	2270	23					
15	HQAM	30	0	2153	2153	2144						
15	HQAM	30	20	2158	2142	2144						
15	HQAM	30	39	2148	2151	2146	23					
15	HQAM	75	0	2153	2141	2144						
15	HQAM	1	0	2168	2157	2162						
15	HQAM	1	49	2158	2151	2155	23					
15	HQAM	1	74	2150	2158	2160						
15	HQAM	30	0	2047	2049	2042						
15	HQAM	30	20	2052	2054	2050	22					
15	HQAM	30	39	2052	2054	2050						
15	HQAM	75	0	2058	2048	2049						
15	SSBQAM	1	0	1853	1840	1835	20					
15	SSBQAM	1	39	1852	1831	1843						
15	SSBQAM	1	74	1841	1835	1847						
15	SSBQAM	30	0	1843	1840	1834	20					
15	SSBQAM	30	20	1838	1835	1823						
15	SSBQAM	30	39	1830	1830	1822						
15	SSBQAM	75	0	1830	1833	1819	20					
Channel				13312	13322	13342				13342		
Frequency (MHz)				665	675	685						
10	QPSK	1	0	2340	2348	2335	25					
10	QPSK	1	25	2340	2338	2334						
10	QPSK	1	49	2325	2334	2334						
10	QPSK	25	0	2287	2283	2280	24					
10	QPSK	25	12	2283	2248	2247						
10	QPSK	25	25	2281	2248	2249						
10	QPSK	50	0	2248	2245	2240	24					
10	HQAM	1	0	2288	2282	2270						
10	HQAM	1	25	2287	2269	2276						
10	HQAM	1	49	2284	2282	2285	24					
10	HQAM	25	0	2152	2152	2139						
10	HQAM	25	12	2159	2151	2146						
10	HQAM	25	25	2150	2143	2148	23					
10	HQAM	50	0	2154	2148	2140						
10	HQAM	1	0	2172	2163	2155						
10	HQAM	1	25	2184	2127	2153	23					
10	HQAM	1	49	2149	2156	2159						
10	HQAM	25	0	2040	2036	2040						
10	HQAM	25	12	2052	2045	2049	22					
10	HQAM	25	25	2058	2053	2051						
10	HQAM	50	0	2058	2050	2042						
10	SSBQAM	1	0	1848	1839	1832	20					
10	SSBQAM	1	25	1847	1824	1841						
10	SSBQAM	1	49	1845	1843	1844						
10	SSBQAM	25	0	1838	1840	1832	20					
10	SSBQAM	25	12	1834	1828	1823						
10	SSBQAM	25	25	1833	1834	1823						
10	SSBQAM	50	0	1841	1838	1823	20					
Channel				13347	13347	13347				13347		
Frequency (MHz)				662.5	672.5	682.5						
5	QPSK	1	0	2341	2345	2331	25					
5	QPSK	1	12	2338	2341	2331						
5	QPSK	1	24	2328	2338	2329						
5	QPSK	10	0	2250	2256	2238	24					
5	QPSK	12	7	2245	2243	2230						
5	QPSK	12	13	2250	2244	2248						
5	QPSK	25	0	2243	2244	2242	24					
5	HQAM	1	0	2279	2277	2285						
5	HQAM	1	12	2270	2274	2287						
5	HQAM	1	24	2262	2269	2262	24					
5	HQAM	12	0	2149	2152	2148						
5	HQAM	12	13	2154	2146	2140						
5	HQAM	12	13	2149	2148	2149	23					
5	HQAM	25	0	2153	2139	2146						
5	HQAM	1	0	2173	2160	2158						
5	HQAM	1	12	2182	2188	2185	23					
5	HQAM	1	24	2159	2160	2159						
5	HQAM	10	0	2048	2047	2043						
5	HQAM	12	7	2061	2053	2049	22					
5	HQAM	12	13	2059	2054	2048						
5	HQAM	25	0	2059	2052	2047						
5	SSBQAM	1	0	1855	1838	1849	20					
5	SSBQAM	1	12	1857	1823	1846						
5	SSBQAM	1	24	1842	1841	1848						
5	SSBQAM	12	0	1847	1835	1832	20					
5	SSBQAM	12	13	1840	1832	1827						
5	SSBQAM	12	13	1830	1828	1820						
5	SSBQAM	25	0	1834	1827	1822	20					





Band 4_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power High Ch./Freq	Power High Ch./Freq	Time-up (ms)
Channel							
1920 1920.5 1945							
20	QPSK	1	0	23.84	23.89	23.91	24
20	QPSK	4	49	23.59	23.63	23.48	
20	QPSK	1	99	23.68	23.64	23.84	
20	QPSK	8	0	22.87	22.93	22.94	
20	QPSK	50	24	22.95	22.88	22.75	24
20	QPSK	50	50	22.94	22.88	22.88	
20	QPSK	100	0	22.97	22.93	22.88	
20	QPSK	1	0	23.49	23.54	23.50	
20	HQAM	1	49	23.40	23.50	23.40	24
20	HQAM	1	99	23.41	23.48	23.44	
20	HQAM	50	0	22.50	22.92	22.81	
20	HQAM	50	24	22.55	22.86	22.87	
20	HQAM	50	50	22.91	22.97	22.89	23.7
20	HQAM	100	0	22.98	22.94	22.79	
20	HQAM	1	0	21.98	21.94	21.90	
20	HQAM	1	49	22.98	22.92	22.98	
20	HQAM	1	99	23.01	22.73	22.90	23.7
20	HQAM	50	0	21.80	21.98	21.87	
20	HQAM	50	24	21.96	21.77	21.88	
20	HQAM	50	50	21.99	21.82	21.86	
20	HQAM	100	0	21.85	21.79	21.80	22.7
20	HQAM	1	0	19.60	19.81	19.78	
20	HQAM	1	49	19.88	19.67	19.83	
20	HQAM	1	99	19.81	19.64	19.89	
20	HQAM	50	0	19.82	19.86	19.83	20.7
20	HQAM	50	24	19.78	19.87	19.79	
20	HQAM	50	50	19.79	19.73	19.84	
20	HQAM	100	0	19.74	19.64	19.85	
Channel							
2005 2005.5 2005.5							
1777.5 1792.5 1747.5							
15	QPSK	1	0	23.60	23.68	23.85	24
15	QPSK	1	49	23.43	23.63	23.47	
15	QPSK	1	74	23.84	23.62	23.58	
15	QPSK	39	0	22.79	22.93	22.77	
15	QPSK	39	20	22.91	22.88	22.87	24
15	QPSK	39	39	22.86	22.86	22.78	
15	QPSK	75	0	22.95	22.91	22.78	
15	HQAM	1	0	23.42	23.48	23.48	
15	HQAM	1	37	23.35	23.41	23.37	24
15	HQAM	1	74	23.41	23.45	23.37	
15	HQAM	39	0	22.90	22.91	22.71	
15	HQAM	39	20	22.98	22.87	22.87	
15	HQAM	39	39	22.81	22.85	22.86	23.7
15	HQAM	75	0	22.91	22.76	22.74	
15	HQAM	1	0	21.90	22.87	22.29	
15	HQAM	1	49	22.98	22.79	22.85	
15	HQAM	1	74	22.96	22.69	22.81	22.7
15	HQAM	39	0	21.92	21.87	21.86	
15	HQAM	39	20	21.87	21.88	21.83	
15	HQAM	39	39	21.97	21.92	21.84	
15	HQAM	75	0	21.76	21.71	21.77	20.7
15	HQAM	1	0	19.51	19.78	19.78	
15	HQAM	1	37	19.81	19.80	19.80	
15	HQAM	1	74	19.78	19.86	19.86	
15	HQAM	39	20	19.51	19.50	19.55	20.7
15	HQAM	39	39	19.58	19.68	19.54	
15	HQAM	39	74	19.73	19.70	19.81	
15	HQAM	75	0	19.55	19.50	19.52	
Channel							
2000 2007.5 2050							
1915 1915.5 1920							
10	QPSK	1	0	23.52	23.68	23.65	24
10	QPSK	1	25	23.40	23.61	23.38	
10	QPSK	1	49	23.63	23.61	23.64	
10	QPSK	25	0	22.80	22.80	22.75	
10	QPSK	25	12	22.87	22.81	22.85	24
10	QPSK	25	25	22.92	22.78	22.88	
10	QPSK	50	0	22.97	22.84	22.81	
10	HQAM	1	0	23.48	23.48	23.50	
10	HQAM	1	25	23.30	23.47	23.39	24
10	HQAM	1	49	23.31	23.48	23.43	
10	HQAM	25	0	22.81	22.82	22.74	
10	HQAM	25	12	22.87	22.82	22.89	
10	HQAM	25	25	22.91	22.90	22.82	23.7
10	HQAM	50	0	22.92	22.79	22.77	
10	HQAM	1	0	21.97	22.88	22.33	
10	HQAM	1	25	22.91	22.77	22.83	
10	HQAM	1	49	22.93	22.72	22.85	23.7
10	HQAM	25	0	21.88	21.88	21.83	
10	HQAM	25	12	21.95	21.72	21.82	
10	HQAM	25	25	21.93	21.68	21.77	
10	HQAM	50	0	21.78	21.74	21.77	22.7
10	HQAM	1	0	19.58	19.63	19.63	
10	HQAM	1	25	19.58	19.63	19.63	
10	HQAM	1	49	19.79	19.91	19.81	
10	HQAM	25	0	19.63	19.65	19.63	20.7
10	HQAM	25	12	19.53	19.55	19.54	
10	HQAM	25	25	19.71	19.70	19.59	
10	HQAM	50	0	19.64	19.62	19.57	
Channel							
2000 2007.5 2007.5							
1907.5 1922.5 1922.5							
5	QPSK	1	0	23.53	23.63	23.59	24
5	QPSK	1	10	23.40	23.56	23.44	
5	QPSK	1	24	23.59	23.59	23.58	
5	QPSK	10	0	22.78	22.87	22.81	
5	QPSK	12	7	22.85	22.81	22.70	24
5	QPSK	12	13	22.92	22.87	22.88	
5	QPSK	24	0	22.98	22.91	22.79	
5	HQAM	1	0	23.45	23.44	23.43	
5	HQAM	1	10	23.34	23.43	23.40	24
5	HQAM	1	24	23.39	23.37	23.41	
5	HQAM	12	0	22.81	22.86	22.80	
5	HQAM	12	13	22.91	22.86	22.79	
5	HQAM	12	13	22.86	22.97	22.86	23.7
5	HQAM	25	0	22.92	22.81	22.78	
5	HQAM	1	0	21.98	22.85	22.36	
5	HQAM	1	10	22.83	22.81	22.87	
5	HQAM	11	24	22.98	22.83	22.88	22.7
5	HQAM	14	0	21.93	21.99	21.87	
5	HQAM	12	7	21.87	21.68	21.81	
5	HQAM	12	13	21.84	21.68	21.77	
5	HQAM	25	0	21.92	21.73	21.72	20.7
5	HQAM	1	0	19.60	19.77	19.73	
5	HQAM	1	10	19.84	19.67	19.81	
5	HQAM	1	24	19.79	19.87	19.82	
5	HQAM	12	0	19.53	19.62	19.59	20.7
5	HQAM	12	13	19.67	19.72	19.57	
5	HQAM	25	0	19.68	19.61	19.56	
5	HQAM	25	0	19.64	19.62	19.57	
Channel							
1711.5 1732.5 1732.5							
1711.5 1732.5 1732.5							
3	QPSK	1	0	23.62	23.61	23.65	24
3	QPSK	1	6	23.44	23.63	23.39	
3	QPSK	1	14	23.68	23.56	23.54	
3	QPSK	8	0	22.84	22.88	22.84	
3	QPSK	8	4	22.91	22.85	22.75	24
3	QPSK	8	7	22.94	22.79	22.85	
3	HQAM	1	0	22.91	22.91	22.85	
3	HQAM	1	0	23.46	23.50	23.44	
3	HQAM	1	8	23.39	23.45	23.36	24
3	HQAM	1	14	23.48	23.36	23.34	
3	HQAM	8	0	22.82	22.87	22.71	
3	HQAM	8	4	22.95	22.82	22.81	
3	HQAM	8	7	22.97	22.85	22.85	23.7
3	HQAM	16	0	22.85	22.78	22.77	
3	HQAM	1	0	21.91	22.91	22.30	
3	HQAM	1	6	22.96	22.79	22.78	
3	HQAM	1	14	22.96	22.83	22.80	23.7
3	HQAM	8	1	21.96	21.93	21.83	
3	HQAM	13	4	21.98	21.73	21.81	
3	HQAM	8	7	21.94	21.82	21.80	
3	HQAM	16	0	21.83	21.69	21.79	22.7
3	HQAM	1	0	19.58	19.79	19.72	
3	HQAM	1	8	19.85	19.60	19.83	
3	HQAM	8	0	19.56	19.60	19.57	
3	HQAM	8	4	19.65	19.64	19.54	20.7
3	HQAM	8	7	19.74	19.69	19.54	
3	HQAM	12	13	19.77	19.72	19.57	
3	HQAM	25	0	19.68	19.61	19.56	
Channel							
1967 1967.5 1967.5							
1702.7 1702.5 1702.5							
1702.7 1702.5 1702.5							
1.4	QPSK	1	0	23.21	23.23	23.12	24
1.4	QPSK	1	3	23.21	23.30	23.23	
1.4	QPSK	1	6	23.19	23.27	23.17	
1.4	QPSK	3	0	22.93	23.31	23.17	
1.4	QPSK	1	24	23.08	23.28	23.16	24
1.4	QPSK	1	24	23.26	23.28	23.21	
1.4	QPSK	6	0	23.28	23.35	23.21	
1.4	HQAM	1	3	23.53	23.55	23.46	
1.4	HQAM	1	5	23.48	23.51	23.34	24
1.4	HQAM	3	0	23.07	23.40	23.35	
1.4	HQAM	3	1	23.39	23.47	23.38	
1.4	HQAM	3	3	23.40	23.35	23.29	
1.4	HQAM	6	0	22.83	22.89	22.75	23.7
1.4	HQAM	1	0	21.98	22.86	22.78	
1.4	HQAM	1	3	22.98	22.72	22.92	
1.4	HQAM	6	0	22.92	22.67	22.78	
1.4	HQAM	3	0	21.99	22.87	22.74	23.7
1.4	HQAM	3	1	22.94	22.75	22.82	
1.4	HQAM	3	1	21.99	22.64	22.79	
1.4	HQAM	6	0	21.91	21.70	21.71	
1.4	HQAM	1	0	19.60	19.80	19.77	22.7
1.4	HQAM	1	0	19.88	19.62	19.59	
1.4	HQAM	1	6	19.78	19.64	19.86	
1.4	HQAM	1	6	19.55	19.62	19.54	
1.4	HQAM	3	1	19.82	19.84	19.68	20.7
1.4	HQAM	3	3	19.71	19.69	19.55	
1.4	HQAM	6	0	19.65	19.63	19.65	



Band 5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up time (min)		
Channel				2040	2055	2070			
Frequency (MHz)				830	835	844			
10	QPSK	1	0	2448	2454	2455			
10	QPSK	1	25	2448	2452	2450			25.7
10	QPSK	1	49	2458	2448	2443			
10	QPSK	25	0	2358	2344	2342			
10	QPSK	25	12	2359	2355	2352			24.7
10	QPSK	25	25	2363	2357	2352			
10	QPSK	50	0	2327	2344	2330			
10	HQAM	1	0	2388	2389	2384			24.7
10	HQAM	1	25	2390	2393	2391			
10	HQAM	1	49	2395	2390	2381			
10	HQAM	25	0	2257	2252	2259			
10	HQAM	25	12	2258	2254	2257			23.7
10	HQAM	25	25	2264	2263	2256			
10	HQAM	50	0	2228	2232	2228			
10	HQAM	50	12	2234	2232	2230			23.7
10	HQAM	1	25	2252	2257	2252			
10	HQAM	1	49	2262	2261	2256			
10	HQAM	25	12	2171	2169	2167			22.7
10	HQAM	25	25	2186	2170	2157			
10	HQAM	50	0	2170	2166	2162			
10	SSBQAM	1	0	1940	1933	1932			20.7
10	SSBQAM	1	25	1944	1945	1944			
10	SSBQAM	1	49	1952	1948	1937			
10	SSBQAM	25	0	1941	1941	1943			
10	SSBQAM	25	12	1944	1939	1938			20.7
10	SSBQAM	25	25	1934	1938	1938			
10	SSBQAM	50	0	1944	1937	1938			
Channel				826.5	830.5	835.5			Turn-up time (min)
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	2454	2452	2448			25.7
5	QPSK	1	25	2455	2453	2448			
5	QPSK	1	24	2446	2448	2448			
5	QPSK	12	0	2359	2370	2381			24.7
5	QPSK	12	6	2368	2367	2355			
5	QPSK	12	12	2380	2385	2384			
5	QPSK	25	0	2363	2369	2355			
5	HQAM	1	0	2399	2395	2389			24.7
5	HQAM	1	12	2389	2395	2383			
5	HQAM	1	24	2389	2391	2378			
5	HQAM	12	0	2284	2272	2281			23.7
5	HQAM	12	7	2288	2289	2288			
5	HQAM	12	13	2285	2287	2282			
5	HQAM	25	0	2259	2271	2258			
5	HQAM	1	0	2281	2280	2282			23.7
5	HQAM	1	24	2283	2286	2287			
5	HQAM	1	24	2282	2286	2282			
5	HQAM	12	0	2189	2175	2187			22.7
5	HQAM	12	7	2173	2175	2141			
5	HQAM	12	13	2188	2170	2122			
5	HQAM	25	0	2189	2174	2145			
5	SSBQAM	1	0	1933	1948	1944			20.7
5	SSBQAM	1	12	1940	1941	1941			
5	SSBQAM	1	24	1945	1945	1934			
5	SSBQAM	12	0	1935	1932	1943			20.7
5	SSBQAM	12	7	1937	1928	1930			
5	SSBQAM	12	13	1933	1938	1938			
5	SSBQAM	25	0	1934	1937	1931			
Channel				20415	20525	20635			Turn-up time (min)
Frequency (MHz)				824.7	825.5	841.5			
3	QPSK	1	0	2380	2387	2385			25.7
3	QPSK	1	6	2387	2394	2383			
3	QPSK	1	11	2378	2383	2371			
3	QPSK	6	0	2289	2293	2287			24.7
3	QPSK	6	4	2295	2301	2287			
3	QPSK	6	8	2298	2293	2283			
3	QPSK	16	0	2250	2257	2286			24.7
3	HQAM	1	0	2311	2317	2311			
3	HQAM	1	6	2315	2320	2313			
3	HQAM	1	14	2311	2318	2303			23.7
3	HQAM	6	0	2195	2200	2194			
3	HQAM	6	4	2198	2206	2196			
3	HQAM	6	7	2195	2198	2187			
3	HQAM	16	0	2106	2201	2180			23.7
3	HQAM	1	0	2303	2215	2190			
3	HQAM	1	6	2313	2221	2171			
3	HQAM	1	14	2302	2209	2170			22.7
3	HQAM	6	0	2190	2180	2078			
3	HQAM	6	4	2194	2103	2178			
3	HQAM	6	7	2189	2098	2171			
3	HQAM	16	0	2102	2098	2172			20.7
3	SSBQAM	1	0	1945	1945	1946			
3	SSBQAM	1	14	1948	1947	1929			
3	SSBQAM	6	0	1938	1941	1930			20.7
3	SSBQAM	6	4	1935	1919	1927			
3	SSBQAM	6	7	1933	1933	1920			
3	SSBQAM	16	0	1938	1938	1931			
Channel				20407	20525	20643			Turn-up time (min)
Frequency (MHz)				824.7	825.5	841.5			
1.4	QPSK	1	0	2371	2379	2370			25.7
1.4	QPSK	1	3	2380	2386	2376			
1.4	QPSK	1	5	2370	2380	2371			
1.4	QPSK	1	11	2389	2380	2375			
1.4	QPSK	3	1	2383	2389	2380			24.7
1.4	QPSK	3	3	2378	2381	2372			
1.4	QPSK	6	0	2283	2291	2277			
1.4	HQAM	1	0	2305	2311	2307			24.7
1.4	HQAM	1	5	2314	2321	2312			
1.4	HQAM	1	5	2307	2312	2300			
1.4	HQAM	3	0	2289	2289	2282			23.7
1.4	HQAM	3	1	2293	2290	2286			
1.4	HQAM	3	1	2283	2291	2278			
1.4	HQAM	6	0	2191	2199	2186			23.7
1.4	HQAM	1	0	2108	2204	2172			
1.4	HQAM	1	3	2210	2215	2178			
1.4	HQAM	1	6	2200	2204	2172			23.7
1.4	HQAM	3	0	2199	2197	2173			
1.4	HQAM	3	1	2194	2200	2173			
1.4	HQAM	3	1	2189	2183	2173			22.7
1.4	HQAM	6	0	2078	2084	2074			
1.4	SSBQAM	1	0	1940	1948	1947			20.7
1.4	SSBQAM	1	1	1937	1941	1941			
1.4	SSBQAM	1	5	1947	1947	1927			
1.4	SSBQAM	3	0	1931	1939	1938			
1.4	SSBQAM	3	1	1944	1938	1938			
1.4	SSBQAM	3	1	1927	1938	1923			20.7
1.4	SSBQAM	6	0	1938	1938	1930			



Band 7_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (min)	
Channel								
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	2275	2296	2314	23.3	
20	QPSK	1	49	2255	2281	2298		
20	QPSK	1	99	2277	2297	2291		
20	QPSK	60	0	2244	2287	2304	23.3	
20	QPSK	50	24	2258	2283	2285		
20	QPSK	50	50	2259	2287	2286		
20	QPSK	100	0	2258	2272	2288	23.3	
20	HQAM	1	0	2287	2272	2310		
20	HQAM	1	49	2254	2270	2291		
20	HQAM	50	0	2289	2291	2283	23.3	
20	HQAM	50	0	2245	2259	2285		
20	HQAM	50	24	2257	2286	2284		
20	HQAM	50	50	2258	2284	2289	23.3	
20	HQAM	100	0	2258	2270	2283		
20	HQAM	1	49	2254	2270	2293		
20	HQAM	1	49	2253	2278	2282	23.3	
20	HQAM	1	99	2282	2282	2211		
20	HQAM	60	0	2203	2215	2236		
20	HQAM	50	24	2283	2215	2268	22.7	
20	HQAM	50	50	2206	2223	2220		
20	HQAM	100	0	2202	2213	2219		
20	SSBQAM	1	0	1978	1977	1989	20.7	
20	SSBQAM	1	49	1983	1971	1988		
20	SSBQAM	1	99	1989	1975	1972		
20	SSBQAM	50	0	1982	1980	1984	20.7	
20	SSBQAM	50	24	1986	1985	1984		
20	SSBQAM	50	50	1971	1987	1986		
20	SSBQAM	100	0	1979	1982	1980	20.7	
Channel								
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	2268	2296	2280	23.3	
15	QPSK	1	49	2265	2281	2290		
15	QPSK	1	74	2271	2292	2274		
15	QPSK	30	0	2234	2283	2283	23.3	
15	QPSK	30	20	2253	2282	2284		
15	QPSK	30	39	2280	2278	2282		
15	QPSK	75	0	2252	2272	2284	23.3	
15	HQAM	1	0	2253	2269	2308		
15	HQAM	1	39	2249	2279	2288		
15	HQAM	1	74	2284	2284	2277	23.3	
15	HQAM	30	0	2238	2282	2283		
15	HQAM	30	20	2254	2287	2274		
15	HQAM	30	39	2285	2271	2286	23.3	
15	HQAM	75	0	2252	2261	2275		
15	HQAM	1	0	2249	2280	2289		
15	HQAM	1	74	2282	2272	2277	23.3	
15	HQAM	1	74	2282	2281	2282		
15	HQAM	30	0	2185	2214	2226		
15	HQAM	30	20	2194	2211	2265	22.7	
15	HQAM	30	39	2281	2219	2214		
15	HQAM	75	0	2184	2205	2213		
15	SSBQAM	1	0	1987	1974	1988	20.7	
15	SSBQAM	1	39	1972	1983	1985		
15	SSBQAM	1	74	1986	1986	1972		
15	SSBQAM	30	0	1959	1955	1959	20.7	
15	SSBQAM	30	20	1987	1951	1987		
15	SSBQAM	30	39	1987	1958	1984		
15	SSBQAM	75	0	1974	1955	1957	20.7	
Channel								
Frequency (MHz)				2100	2100	2100		
10	QPSK	1	0	2272	2296	2278	23.3	
10	QPSK	1	25	2280	2278	2294		
10	QPSK	1	49	2271	2287	2281		
10	QPSK	25	0	2241	2283	2281	23.3	
10	QPSK	25	12	2252	2280	2277		
10	QPSK	25	25	2251	2278	2280		
10	QPSK	50	0	2249	2284	2279	23.3	
10	HQAM	1	0	2248	2286	2308		
10	HQAM	1	25	2249	2279	2291		
10	HQAM	1	49	2284	2287	2280	23.3	
10	HQAM	25	0	2240	2282	2281		
10	HQAM	25	12	2259	2288	2276		
10	HQAM	25	25	2252	2277	2288	23.3	
10	HQAM	50	0	2256	2285	2282		
10	HQAM	1	0	2258	2280	2282		
10	HQAM	1	25	2246	2280	2278	23.3	
10	HQAM	1	49	2280	2278	2286		
10	HQAM	25	0	2185	2287	2228		
10	HQAM	25	12	2200	2211	2199	22.7	
10	HQAM	25	25	2198	2216	2211		
10	HQAM	50	0	2197	2213	2212		
10	SSBQAM	1	0	1972	1982	1982	20.7	
10	SSBQAM	1	25	1971	1985	1981		
10	SSBQAM	1	49	1988	1988	1970		
10	SSBQAM	25	0	1988	1987	1987	20.7	
10	SSBQAM	25	12	1984	1950	1958		
10	SSBQAM	25	25	1984	1960	1986		
10	SSBQAM	50	0	1971	1981	1986	20.7	
Channel								
Frequency (MHz)				2177.5	2190	2182.5		
5	QPSK	1	0	2268	2284	2290	23.3	
5	QPSK	1	12	2284	2277	2301		
5	QPSK	1	24	2289	2291	2273		
5	QPSK	10	0	2242	2280	2274	23.3	
5	QPSK	12	7	2251	2284	2284		
5	QPSK	12	13	2254	2273	2277		
5	QPSK	20	0	2255	2286	2282	23.3	
5	HQAM	1	0	2247	2284	2309		
5	HQAM	1	12	2248	2279	2286		
5	HQAM	1	24	2268	2288	2281	23.3	
5	HQAM	12	0	2245	2284	2279		
5	HQAM	12	13	2252	2283	2282		
5	HQAM	20	0	2251	2284	2283	23.3	
5	HQAM	1	0	2247	2286	2282		
5	HQAM	1	12	2282	2273	2281		
5	HQAM	11	24	2282	2273	2282	22.7	
5	HQAM	12	0	2189	2205	2206		
5	HQAM	12	7	2195	2208	2198		
5	HQAM	12	13	2186	2210	2210	22.7	
5	HQAM	20	0	2198	2207	2210		
5	HQAM	20	0	2198	2207	2210		
5	SSBQAM	1	0	1988	1988	1986	20.7	
5	SSBQAM	1	12	1970	1986	1986		
5	SSBQAM	1	24	1982	1971	1986		
5	SSBQAM	12	0	1958	1951	1958	20.7	
5	SSBQAM	12	13	1986	1980	1980		
5	SSBQAM	20	0	1971	1987	1984		





Band 12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2464	2465	2466	25.7
10	QPSK	1	25	2459	2460	2461	
10	QPSK	1	49	2467	2463	2460	
10	QPSK	25	0	2372	2374	2371	24.7
10	QPSK	25	12	2378	2373	2372	
10	QPSK	25	25	2377	2379	2380	
10	HQAM	1	0	2396	2395	2397	24.7
10	HQAM	1	25	2397	2399	2401	
10	HQAM	1	49	2408	2401	2404	
10	HQAM	25	0	2271	2273	2274	23.7
10	HQAM	25	12	2276	2273	2275	
10	HQAM	25	25	2272	2280	2277	
10	HQAM	50	0	2275	2272	2274	23.7
10	HQAM	50	25	2281	2280	2283	
10	HQAM	50	50	2288	2282	2286	
10	HQAM	1	49	2298	2291	2294	22.7
10	HQAM	25	0	2178	2174	2176	
10	HQAM	25	12	2184	2177	2178	
10	HQAM	25	25	2179	2181	2180	22.7
10	HQAM	50	0	2182	2177	2177	
10	HQAM	50	0	1942	1954	1950	
10	SSBQAM	1	25	1958	1957	1958	20.7
10	SSBQAM	1	49	1952	1958	1954	
10	SSBQAM	25	0	1952	1954	1955	
10	SSBQAM	25	12	1956	1948	1945	20.7
10	SSBQAM	25	25	1942	1947	1955	
10	SSBQAM	50	0	1953	1951	1951	
Channel							
Frequency (MHz)							
5	QPSK	1	0	2465	2466	2460	25.7
5	QPSK	1	24	2465	2460	2460	
5	QPSK	1	24	2484	2465	2464	
5	QPSK	12	0	2375	2373	2373	24.7
5	QPSK	12	6	2378	2380	2370	
5	QPSK	12	12	2370	2374	2372	
5	QPSK	25	0	2373	2371	2371	24.7
5	HQAM	1	0	2398	2399	2397	
5	HQAM	1	12	2401	2401	2399	
5	HQAM	1	24	2402	2401	2397	23.7
5	HQAM	12	0	2283	2278	2278	
5	HQAM	12	7	2278	2280	2274	
5	HQAM	12	13	2275	2275	2275	23.7
5	HQAM	25	0	2278	2271	2270	
5	HQAM	1	0	2298	2295	2288	
5	HQAM	1	24	2292	2293	2294	22.7
5	HQAM	1	24	2296	2298	2292	
5	HQAM	12	0	2188	2182	2182	
5	HQAM	12	7	2183	2183	2178	22.7
5	HQAM	12	13	2178	2180	2177	
5	HQAM	25	0	2178	2174	2174	
5	SSBQAM	1	0	1958	1948	1948	20.7
5	SSBQAM	1	12	1950	1949	1952	
5	SSBQAM	1	24	1952	1951	1950	
5	SSBQAM	12	7	1951	1948	1942	20.7
5	SSBQAM	12	13	1958	1937	1954	
5	SSBQAM	25	0	1953	1949	1948	
Channel							
Frequency (MHz)							
3	QPSK	1	0	2392	2388	2386	25.7
3	QPSK	1	8	2392	2395	2393	
3	QPSK	8	0	2395	2390	2394	
3	QPSK	8	4	2298	2297	2294	24.7
3	QPSK	8	4	2298	2300	2297	
3	QPSK	8	0	2294	2297	2292	
3	QPSK	16	0	2298	2292	2292	24.7
3	HQAM	1	0	2398	2399	2392	
3	HQAM	1	8	2391	2391	2392	
3	HQAM	1	14	2393	2392	2393	23.7
3	HQAM	8	4	2298	2301	2300	
3	HQAM	8	4	2299	2298	2294	
3	HQAM	8	7	2290	2298	2198	23.7
3	HQAM	16	0	2291	2295	2194	
3	HQAM	1	0	2221	2214	2214	
3	HQAM	1	8	2224	2223	2220	22.7
3	HQAM	8	0	2215	2218	2212	
3	HQAM	8	0	2183	2183	2086	
3	HQAM	8	4	2198	2197	2194	22.7
3	HQAM	8	7	2099	2102	2099	
3	HQAM	16	0	2100	2095	2093	
3	SSBQAM	1	0	1958	1948	1948	20.7
3	SSBQAM	1	14	1958	1947	1948	
3	SSBQAM	8	0	1948	1944	1945	
3	SSBQAM	8	4	1953	1948	1939	20.7
3	SSBQAM	8	7	1945	1937	1953	
3	SSBQAM	16	0	1951	1944	1945	
Channel							
Frequency (MHz)							
1.4	QPSK	1	0	2373	2374	2373	25.7
1.4	QPSK	1	3	2378	2380	2380	
1.4	QPSK	1	5	2372	2373	2371	
1.4	QPSK	3	0	2380	2378	2377	24.7
1.4	QPSK	3	1	2384	2378	2379	
1.4	QPSK	3	3	2374	2378	2374	
1.4	QPSK	6	0	2283	2284	2281	24.7
1.4	HQAM	1	0	2398	2397	2399	
1.4	HQAM	1	5	2398	2395	2393	
1.4	HQAM	3	0	2289	2284	2288	23.7
1.4	HQAM	3	1	2284	2286	2280	
1.4	HQAM	3	1	2284	2283	2282	
1.4	HQAM	6	0	2188	2190	2186	23.7
1.4	HQAM	3	0	2201	2198	2199	
1.4	HQAM	1	3	2286	2289	2283	
1.4	HQAM	1	6	2283	2282	2197	23.7
1.4	HQAM	3	0	2198	2194	2198	
1.4	HQAM	3	1	2202	2197	2200	
1.4	HQAM	3	1	2198	2195	2195	22.7
1.4	HQAM	6	0	2098	2098	2093	
1.4	SSBQAM	1	0	1938	1948	1942	
1.4	SSBQAM	1	3	1937	1954	1956	20.7
1.4	SSBQAM	1	5	1958	1937	1958	
1.4	SSBQAM	3	0	1942	1945	1951	
1.4	SSBQAM	3	1	1958	1941	1938	20.7
1.4	SSBQAM	3	1	1939	1944	1952	
1.4	SSBQAM	6	0	1947	1948	1950	



Band 13_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.98	782		
10	QPSK	1	25	24.02			25.2
10	QPSK	1	49	24.10			
10	QPSK	25	0	23.16			
10	QPSK	25	12	23.17			24.2
10	QPSK	25	25	23.19			
10	QPSK	50	0	23.18			
10	HQAM	1	0	23.38			
10	HQAM	1	25	23.37			24.2
10	HQAM	1	49	23.40			
10	HQAM	25	0	22.17			
10	HQAM	25	12	22.20			23.2
10	HQAM	25	25	22.22			
10	HQAM	50	0	22.19			
10	HQAM	1	0	22.21			
10	HQAM	1	25	22.32			23.2
10	HQAM	1	49	22.34			
10	HQAM	25	0	21.17			
10	HQAM	25	12	21.24			22.2
10	HQAM	25	25	21.23			
10	HQAM	50	0	21.23			
10	256QAM	1	0	18.81			
10	256QAM	1	25	18.97			20.2
10	256QAM	1	49	18.91			
10	256QAM	25	0	18.78			
10	256QAM	25	12	18.86			20.2
10	256QAM	25	25	18.89			
10	256QAM	50	0	18.84			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.93	782	784.5	
5	QPSK	1	12	24.04	24.07	23.77	25.2
5	QPSK	1	24	24.07	24.08	23.83	
5	QPSK	12	0	23.10	23.13	22.85	
5	QPSK	12	6	23.18	23.15	22.93	24.2
5	QPSK	12	12	23.19	23.21	22.89	
5	QPSK	25	0	23.18	23.14	22.90	
5	HQAM	1	0	23.31	23.29	23.01	
5	HQAM	1	12	23.29	23.33	23.04	24.2
5	HQAM	1	24	23.37	23.38	23.04	
5	HQAM	12	0	22.20	22.17	21.92	
5	HQAM	12	6	22.20	22.17	21.92	23.2
5	HQAM	12	12	22.21	22.22	21.94	
5	HQAM	25	0	22.23	22.16	21.92	
5	HQAM	1	0	22.19	22.28	21.94	
5	HQAM	1	12	22.25	22.20	22.01	23.2
5	HQAM	1	24	22.29	22.32	22.02	
5	HQAM	12	0	21.22	21.23	20.96	
5	HQAM	12	6	21.28	21.21	20.98	22.2
5	HQAM	12	12	21.25	21.26	20.95	
5	HQAM	25	0	21.36	21.17	20.96	
5	256QAM	1	0	18.55	18.57	18.59	
5	256QAM	1	12	18.93	18.96	18.94	20.2
5	256QAM	1	24	18.96	18.99	18.96	
5	256QAM	12	0	18.77	18.69	18.74	
5	256QAM	12	6	18.83	18.78	18.79	20.2
5	256QAM	12	12	18.82	18.84	18.79	
5	256QAM	25	0	18.77	18.77	18.74	



Band 14_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	24.56	24.56	
10	QPSK	1	25	24.53	24.53	
10	QPSK	1	49	24.48	24.48	25.7
10	QPSK	25	0	23.55	23.55	
10	QPSK	25	12	23.57	23.57	
10	QPSK	25	25	23.63	23.63	24.7
10	QPSK	50	0	23.55	23.55	
10	HQAM	1	0	23.95	23.95	
10	HQAM	1	25	23.91	23.91	24.7
10	HQAM	1	49	23.86	23.86	
10	HQAM	25	0	22.54	22.54	
10	HQAM	25	12	22.57	22.57	
10	HQAM	25	25	22.64	22.64	23.7
10	HQAM	50	0	22.55	22.55	
10	HQAM	1	0	22.79	22.79	
10	HQAM	1	25	22.84	22.84	23.7
10	HQAM	1	49	22.79	22.79	
10	HQAM	25	0	21.58	21.58	
10	HQAM	25	12	21.61	21.61	
10	HQAM	25	25	21.63	21.63	22.7
10	HQAM	50	0	21.59	21.59	
10	256QAM	1	0	19.53	19.53	
10	256QAM	1	25	19.57	19.57	20.7
10	256QAM	1	49	19.55	19.55	
10	256QAM	25	0	19.29	19.29	
10	256QAM	25	12	19.34	19.34	
10	256QAM	25	25	19.33	19.33	20.7
10	256QAM	50	0	19.25	19.25	
Channel						
Frequency (MHz)						
5	QPSK	1	0	24.48	24.48	24.45
5	QPSK	1	24	24.56	24.53	24.55
5	QPSK	1	24	24.55	24.55	24.48
5	QPSK	12	0	23.62	23.54	23.51
5	QPSK	12	12	23.68	23.68	23.60
5	QPSK	12	12	23.61	23.60	23.56
5	QPSK	25	0	23.59	23.54	23.52
5	HQAM	1	0	23.82	23.82	23.79
5	HQAM	1	12	23.90	23.92	23.86
5	HQAM	1	24	23.88	23.88	23.79
5	HQAM	12	0	22.84	22.81	22.83
5	HQAM	12	7	22.88	22.89	22.88
5	HQAM	12	13	22.95	22.93	22.94
5	HQAM	25	0	22.62	22.56	22.58
5	HQAM	1	0	22.61	22.77	22.77
5	HQAM	1	24	22.63	22.85	22.84
5	HQAM	1	24	22.82	22.82	22.80
5	HQAM	12	0	21.71	21.60	21.58
5	HQAM	12	7	21.69	21.70	21.68
5	HQAM	12	13	21.63	21.66	21.61
5	HQAM	25	0	21.65	21.61	21.54
5	256QAM	1	0	19.47	19.49	19.53
5	256QAM	1	12	19.31	19.33	19.28
5	256QAM	1	24	19.46	19.52	19.52
5	256QAM	12	0	19.19	19.27	19.27
5	256QAM	12	7	19.28	19.28	19.34
5	256QAM	12	13	19.33	19.35	19.33
5	256QAM	25	0	19.21	19.19	19.15



Band 17_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)
Channel				700	710	711	
Frequency (MHz)							
10	QPSK	1	0	2458	2458	2458	25.7
10	QPSK	1	25	2458	2464	2460	
10	QPSK	1	49	2462	2466	2462	
10	QPSK	25	0	2384	2386	2386	24.7
10	QPSK	25	12	2378	2373	2371	
10	QPSK	25	25	2380	2379	2380	
10	HQAM	1	0	2390	2392	2391	24.7
10	HQAM	1	25	2401	2401	2400	
10	HQAM	1	49	2401	2402	2402	
10	HQAM	25	0	2265	2264	2264	23.7
10	HQAM	25	12	2278	2271	2271	
10	HQAM	25	25	2277	2281	2276	
10	HQAM	50	0	2269	2270	2267	23.7
10	HQAM	50	0	2286	2276	2274	
10	HQAM	1	25	2252	2257	2250	
10	HQAM	1	49	2252	2258	2263	22.7
10	HQAM	25	0	2167	2167	2167	
10	HQAM	25	12	2184	2178	2178	
10	HQAM	25	25	2180	2182	2182	20.7
10	HQAM	50	0	2170	2171	2171	
10	256QAM	1	0	1944	1937	1933	
10	256QAM	1	25	1950	1948	1951	20.7
10	256QAM	1	49	1958	1950	1958	
10	256QAM	25	0	1946	1944	1946	
10	256QAM	25	12	1956	1952	1943	20.7
10	256QAM	25	25	1958	1954	1952	
10	256QAM	50	0	1948	1948	1948	
Channel				700.5	710	711.5	
Frequency (MHz)							
5	QPSK	1	0	2457	2456	2455	25.7
5	QPSK	1	25	2460	2461	2463	
5	QPSK	1	24	2484	2461	2464	
5	QPSK	12	0	2387	2389	2386	24.7
5	QPSK	12	12	2378	2374	2369	
5	QPSK	12	13	2377	2376	2373	
5	HQAM	1	0	2376	2376	2366	24.7
5	HQAM	1	0	2391	2393	2391	
5	HQAM	1	12	2397	2403	2398	
5	HQAM	1	24	2408	2404	2401	23.7
5	HQAM	12	7	2278	2274	2273	
5	HQAM	12	13	2278	2277	2274	
5	HQAM	25	0	2274	2275	2269	23.7
5	HQAM	1	0	2289	2287	2288	
5	HQAM	1	24	2290	2296	2290	
5	HQAM	1	24	2294	2300	2293	22.7
5	HQAM	12	0	2173	2177	2178	
5	HQAM	12	7	2181	2179	2173	
5	HQAM	12	13	2179	2185	2175	20.7
5	HQAM	25	0	2179	2174	2170	
5	256QAM	1	0	1941	1929	1924	
5	256QAM	1	12	1949	1946	1944	20.7
5	256QAM	1	24	1944	1950	1950	
5	256QAM	12	7	1958	1947	1940	
5	256QAM	12	13	1953	1954	1952	20.7
5	256QAM	25	0	1937	1941	1942	





Band 26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up time (min)		
Channel									
Frequency (MHz)									
831.5 831.5 831.5									
15	QPSK	1	0	2458	2449	2449	25.7		
15	QPSK	39	0	2449	2448	2448			
15	QPSK	1	74	2449	2448	2438	25.7		
15	QPSK	39	0	2384	2385	2381			
15	QPSK	39	20	2389	2387	2357	24.7		
15	QPSK	39	39	2354	2363	2359			
15	QPSK	75	0	2377	2376	2358	24.7		
15	QPSK	1	0	2388	2377	2385			
15	HQAM	1	37	2379	2378	2378	24.7		
15	HQAM	74	0	2377	2371	2366			
15	HQAM	39	0	2263	2252	2259	23.7		
15	HQAM	39	20	2265	2265	2255			
15	HQAM	39	39	2265	2262	2266	23.7		
15	HQAM	75	0	2268	2265	2281			
15	HQAM	1	0	2275	2287	2283	23.7		
15	HQAM	1	37	2271	2274	2258			
15	HQAM	1	74	2272	2268	2293	22.7		
15	HQAM	39	0	2184	2184	2184			
15	HQAM	39	20	2188	2188	2181	22.7		
15	HQAM	39	39	2187	2184	2183			
15	HQAM	75	0	2170	2167	2159	20.7		
15	HQAM	1	0	1949	1943	1944			
15	HQAM	1	37	1845	1837	1846	20.7		
15	HQAM	74	0	1837	1836	1836			
15	HQAM	39	0	1939	1940	1938	20.7		
15	HQAM	39	20	1941	1941	1938			
15	HQAM	39	39	1931	1932	1931	20.7		
15	HQAM	75	0	1941	1943	1934			
Channel									
Frequency (MHz)									
831.5 831.5 831.5									
10	QPSK	1	0	2454	2452	2449	25.7		
10	QPSK	39	0	2453	2452	2449			
10	QPSK	1	49	2453	2454	2442	24.7		
10	QPSK	26	0	2368	2357	2357			
10	QPSK	26	0	2368	2359	2358	24.7		
10	QPSK	26	26	2383	2389	2387			
10	QPSK	50	0	2365	2366	2354	24.7		
10	HQAM	1	0	2399	2387	2388			
10	HQAM	1	26	2369	2350	2388	23.7		
10	HQAM	1	49	2369	2364	2375			
10	HQAM	25	0	2270	2259	2266	23.7		
10	HQAM	25	10	2269	2259	2254			
10	HQAM	25	20	2269	2265	2256	23.7		
10	HQAM	50	0	2265	2264	2258			
10	HQAM	1	0	2292	2278	2274	23.7		
10	HQAM	1	26	2288	2288	2278			
10	HQAM	1	49	2281	2280	2268	22.7		
10	HQAM	25	0	2181	2180	2182			
10	HQAM	25	10	2170	2183	2182	20.7		
10	HQAM	25	20	2181	2181	2134			
10	HQAM	50	0	2151	2187	2155	20.7		
10	HQAM	1	0	1942	1942	1941			
10	HQAM	1	26	1943	1928	1943	20.7		
10	HQAM	1	49	1943	1943	1938			
10	HQAM	25	0	1932	1934	1937	20.7		
10	HQAM	25	10	1938	1942	1938			
10	HQAM	25	20	1938	1935	1934	20.7		
10	HQAM	50	0	1933	1933	1930			
Channel									
Frequency (MHz)									
831.5 831.5 831.5									
5	QPSK	1	0	2450	2450	2455	24.7		
5	QPSK	1	10	2453	2455	2454			
5	QPSK	1	24	2455	2456	2442	24.7		
5	QPSK	12	0	2372	2381	2381			
5	QPSK	12	7	2369	2354	2358	24.7		
5	QPSK	12	14	2364	2360	2351			
5	QPSK	26	0	2368	2362	2357	24.7		
5	HQAM	1	0	2401	2391	2389			
5	HQAM	1	10	2398	2396	2378	23.7		
5	HQAM	1	24	2396	2393	2374			
5	HQAM	12	1	2378	2363	2364	23.7		
5	HQAM	12	7	2273	2268	2259			
5	HQAM	12	14	2266	2261	2252	23.7		
5	HQAM	26	0	2266	2262	2254			
5	HQAM	1	0	2258	2284	2281	23.7		
5	HQAM	1	10	2272	2284	2284			
5	HQAM	1	24	2269	2286	2211	22.7		
5	HQAM	12	0	2155	2187	2158			
5	HQAM	12	7	2187	2171	2121	22.7		
5	HQAM	12	14	2168	2164	2034			
5	HQAM	26	0	2152	2188	2122	20.7		
5	HQAM	1	0	1948	1948	1948			
5	HQAM	1	10	1948	1948	1942	20.7		
5	HQAM	12	7	1940	1940	1931			
5	HQAM	12	14	1928	1928	1930	20.7		
5	HQAM	26	0	1941	1933	1928			
Channel									
Frequency (MHz)									
831.5 831.5 831.5									
3	QPSK	1	0	2443	2441	2433	25.7		
3	QPSK	1	8	2452	2450	2454			
3	QPSK	1	14	2450	2448	2441	24.7		
3	QPSK	8	0	2372	2359	2358			
3	QPSK	8	4	2361	2360	2353	24.7		
3	QPSK	8	7	2362	2359	2348			
3	QPSK	16	0	2361	2358	2348	24.7		
3	HQAM	1	0	2393	2387	2387			
3	HQAM	1	8	2386	2386	2374	23.7		
3	HQAM	1	14	2380	2384	2373			
3	HQAM	8	0	2274	2257	2254	23.7		
3	HQAM	8	4	2265	2266	2254			
3	HQAM	8	7	2261	2252	2244	23.7		
3	HQAM	16	0	2268	2261	2257			
3	HQAM	1	0	2268	2278	2271	23.7		
3	HQAM	1	8	2287	2284	2224			
3	HQAM	1	14	2259	2286	2211	22.7		
3	HQAM	8	0	2149	2162	2153			
3	HQAM	8	4	2163	2167	2112	22.7		
3	HQAM	8	7	2154	2144	2090			
3	HQAM	16	0	2145	2168	2110	20.7		
3	HQAM	1	0	1947	1943	1939			
3	HQAM	8	0	1940	1939	1946	20.7		
3	HQAM	1	14	1934	1946	1932			
3	HQAM	8	0	1930	1935	1933	20.7		
3	HQAM	8	4	1941	1937	1929			
3	HQAM	8	7	1924	1924	1925	20.7		
3	HQAM	16	0	1934	1942	1926			
Channel									
Frequency (MHz)									
814.7 831.5 846.3									
1.4	QPSK	1	0	2447	2443	2446	25.7		
1.4	QPSK	1	0	2451	2448	2445			
1.4	QPSK	1	0	2449	2450	2432	25.7		
1.4	QPSK	3	0	2446	2448	2447			
1.4	QPSK	1	0	2448	2450	2453	24.7		
1.4	QPSK	3	3	2446	2448	2432			
1.4	QPSK	8	0	2372	2358	2356	24.7		
1.4	HQAM	1	0	2365	2364	2348			
1.4	HQAM	1	3	2360	2359	2341	24.7		
1.4	HQAM	3	0	2364	2360	2354			
1.4	HQAM	3	0	2354	2355	2350	24.7		
1.4	HQAM	3	1	2387	2388	2377			
1.4	HQAM	3	0	2377	2350	2360	23.7		
1.4	HQAM	6	0	2277	2281	2280			
1.4	HQAM	1	0	2288	2284	2259	23.7		
1.4	HQAM	3	0	2265	2261	2243			
1.4	HQAM	1	6	2269	2259	2254	23.7		
1.4	HQAM	3	0	2261	2275	2270			
1.4	HQAM	6	0	2262	2260	2224	23.7		
1.4	HQAM	3	3	2260	2286	2209			
1.4	HQAM	6	0	2147	2167	2156	20.7		
1.4	HQAM	1	0	1944	1937	1936			
1.4	HQAM	1	3	1938	1934	1942	20.7		
1.4	HQAM	3	0	1935	1940	1938			
1.4	HQAM	3	1	1939	1938	1934	20.7		
1.4	HQAM	3	0	1931	1927	1928			
1.4	HQAM	6	0	1933	1933	1936	20.7		



Band 30_Ant 2						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	2315		
10	QPSK	1	25	2309		
10	QPSK	1	49	2302		
10	QPSK	25	0	2208		
10	QPSK	25	12	2216		
10	QPSK	25	25	2218		
10	QPSK	50	0	2214		
10	HQAM	1	0	2244		
10	HQAM	1	25	2248		
10	HQAM	1	49	2241		
10	HQAM	25	0	2108		
10	HQAM	25	12	2114		
10	HQAM	25	25	2117		
10	HQAM	50	0	2114		
10	HQAM	1	0	2120		
10	HQAM	1	25	2120		
10	HQAM	1	49	2127		
10	HQAM	25	0	2012		
10	HQAM	25	12	2020		
10	HQAM	25	25	2020		
10	HQAM	50	0	2018		
10	256QAM	1	0	1830		
10	256QAM	1	25	1834		
10	256QAM	1	49	1831		
10	256QAM	25	0	1878		
10	256QAM	25	12	1873		
10	256QAM	25	25	1875		
10	256QAM	50	0	1877		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2307.5	2310	2312.5
5	QPSK	1	0	2297	2301	2305
5	QPSK	1	12	2314	2314	2312
5	QPSK	1	24	2313	2313	2308
5	QPSK	12	0	2210	2212	2218
5	QPSK	12	12	2223	2217	2221
5	QPSK	12	12	2222	2217	2219
5	QPSK	25	0	2218	2214	2219
5	HQAM	1	0	2232	2234	2230
5	HQAM	1	12	2242	2240	2238
5	HQAM	1	24	2244	2240	2238
5	HQAM	12	0	2115	2114	2119
5	HQAM	12	7	2124	2120	2122
5	HQAM	12	13	2125	2118	2122
5	HQAM	25	0	2121	2118	2120
5	HQAM	1	0	2128	2132	2134
5	HQAM	1	12	2132	2138	2133
5	HQAM	1	24	2138	2138	2131
5	HQAM	12	0	2017	2021	2020
5	HQAM	12	7	2020	2023	2028
5	HQAM	12	13	2030	2025	2024
5	HQAM	25	0	2025	2017	2020
5	256QAM	1	0	1875	1878	1877
5	256QAM	1	12	1887	1890	1885
5	256QAM	1	24	1886	1885	1887
5	256QAM	12	7	1883	1872	1884
5	256QAM	12	13	1885	1875	1871
5	256QAM	25	0	1875	1872	1870







Band 71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dB)		
Channel				693	693	693			
Frequency (MHz)				13329	13329	13329			
20	QPSK	1	0	2466	2467	2462			
20	QPSK	1	49	2458	2453	2451			20.7
20	QPSK	1	99	2451	2453	2450			
20	QPSK	61	0	2366	2366	2358			
20	QPSK	50	24	2371	2361	2361			24.7
20	QPSK	50	50	2370	2364	2363			
20	QPSK	100	0	2370	2360	2358			
20	HQAM	1	0	2402	2392	2382			
20	HQAM	1	49	2392	2389	2385			24.7
20	HQAM	1	99	2389	2386	2385			
20	HQAM	50	0	2270	2268	2257			
20	HQAM	50	24	2273	2263	2261			
20	HQAM	50	50	2270	2268	2264			23.7
20	HQAM	100	0	2270	2262	2259			
20	HQAM	1	49	2264	2255	2254			
20	HQAM	1	99	2261	2259	2271			23.7
20	HQAM	1	99	2278	2277	2278			
20	HQAM	50	0	2128	2127	2121			
20	HQAM	50	24	2123	2125	2125			22.7
20	HQAM	50	50	2121	2126	2125			
20	HQAM	100	0	2124	2122	2122			
20	SSBQAM	1	0	1958	1950	1937			
20	SSBQAM	1	49	1941	1936	1939			20.7
20	SSBQAM	1	99	1945	1935	1935			
20	SSBQAM	50	0	1941	1947	1944			
20	SSBQAM	50	24	1945	1944	1938			
20	SSBQAM	50	50	1940	1938	1929			20.7
20	SSBQAM	100	0	1943	1943	1932			
Channel				670.5	670.5	670.5			Turn-up (dB)
Frequency (MHz)				670.5	670.5	670.5			
15	QPSK	1	0	2464	2457	2453			
15	QPSK	1	49	2456	2453	2452			20.7
15	QPSK	1	74	2453	2458	2453			
15	QPSK	39	0	2388	2384	2380			
15	QPSK	39	29	2371	2368	2369			24.7
15	QPSK	39	39	2384	2383	2381			
15	QPSK	75	0	2372	2369	2366			
15	HQAM	1	0	2401	2393	2394			
15	HQAM	1	37	2384	2390	2388			24.7
15	HQAM	1	74	2382	2382	2384			
15	HQAM	39	0	2288	2284	2282			
15	HQAM	39	29	2271	2269	2288			23.7
15	HQAM	39	39	2284	2282	2283			
15	HQAM	75	0	2273	2269	2267			
15	HQAM	1	0	2247	2279	2275			
15	HQAM	1	49	2263	2278	2278			23.7
15	HQAM	1	74	2275	2283	2277			
15	HQAM	39	0	2148	2160	2163			
15	HQAM	39	29	2152	2171	2171			22.7
15	HQAM	39	39	2168	2185	2185			
15	HQAM	75	0	2170	2170	2188			
15	SSBQAM	1	0	1949	1952	1927			
15	SSBQAM	1	37	1933	1928	1932			20.7
15	SSBQAM	1	74	1946	1946	1936			
15	SSBQAM	39	0	1935	1941	1937			
15	SSBQAM	39	29	1932	1943	1930			20.7
15	SSBQAM	39	39	1938	1938	1935			
15	SSBQAM	75	0	1938	1938	1931			
Channel				13312	13322	13342			Turn-up (dB)
Frequency (MHz)				692.5	692.5	692.5			
10	QPSK	1	0	2462	2457	2449			
10	QPSK	1	25	2455	2445	2450			20.7
10	QPSK	1	49	2452	2451	2445			
10	QPSK	25	0	2372	2358	2353			
10	QPSK	25	12	2371	2358	2359			24.7
10	QPSK	25	25	2366	2362	2361			
10	QPSK	50	0	2371	2365	2356			
10	HQAM	1	0	2405	2391	2384			
10	HQAM	1	25	2392	2386	2389			24.7
10	HQAM	1	49	2388	2390	2383			
10	HQAM	25	0	2272	2266	2264			
10	HQAM	25	12	2271	2267	2264			23.7
10	HQAM	25	25	2264	2260	2281			
10	HQAM	50	0	2271	2263	2264			
10	HQAM	1	0	2254	2278	2273			
10	HQAM	1	25	2258	2270	2280			23.7
10	HQAM	1	49	2266	2281	2271			
10	HQAM	25	0	2132	2159	2165			
10	HQAM	25	12	2133	2160	2162			22.7
10	HQAM	25	25	2128	2165	2164			
10	HQAM	50	0	2141	2168	2157			
10	SSBQAM	1	0	1955	1957	1936			
10	SSBQAM	1	25	1938	1928	1934			20.7
10	SSBQAM	1	49	1937	1945	1955			
10	SSBQAM	25	0	1934	1942	1937			
10	SSBQAM	25	12	1932	1935	1932			20.7
10	SSBQAM	25	25	1940	1928	1928			
10	SSBQAM	50	0	1938	1933	1922			
Channel				13347	13347	13347			Turn-up (dB)
Frequency (MHz)				692.5	692.5	692.5			
5	QPSK	1	0	2463	2457	2455			
5	QPSK	1	12	2461	2454	2456			20.7
5	QPSK	1	24	2456	2454	2447			
5	QPSK	19	0	2379	2363	2364			
5	QPSK	12	7	2373	2364	2370			24.7
5	QPSK	12	13	2366	2360	2361			
5	QPSK	24	0	2370	2364	2359			
5	HQAM	1	0	2402	2392	2389			
5	HQAM	1	12	2395	2390	2388			24.7
5	HQAM	1	24	2389	2388	2383			
5	HQAM	12	0	2282	2266	2288			
5	HQAM	12	13	2276	2266	2270			23.7
5	HQAM	12	13	2289	2261	2261			
5	HQAM	25	0	2273	2265	2262			
5	HQAM	1	0	2223	2260	2279			
5	HQAM	1	12	2248	2285	2281			23.7
5	HQAM	1	24	2247	2283	2278			
5	HQAM	12	0	2168	2164	2160			
5	HQAM	12	7	2149	2170	2173			22.7
5	HQAM	12	13	2158	2164	2160			
5	HQAM	25	0	2131	2167	2162			
5	SSBQAM	1	0	1955	1952	1931			
5	SSBQAM	1	12	1937	1928	1936			20.7
5	SSBQAM	1	24	1938	1947	1955			
5	SSBQAM	12	0	1935	1945	1934			20.7
5	SSBQAM	12	7	1937	1938	1932			
5	SSBQAM	12	13	1936	1936	1920			
5	SSBQAM	25	0	1937	1935	1931			20.7







Band 5_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)			
Channel				2045	2055	2065				
Frequency (MHz)				850	855	860				
10	QPSK	1	0	2347	2357	2364	25			
10	QPSK	1	25	2351	2356	2353				
10	QPSK	1	49	2358	2353	2345				
10	QPSK	25	0	2263	2266	2263	24			
10	QPSK	25	12	2272	2267	2262				
10	QPSK	25	25	2288	2270	2264				
10	QPSK	50	0	2272	2266	2259	24			
10	HQAM	1	0	2291	2292	2287				
10	HQAM	1	25	2292	2298	2292				
10	HQAM	1	49	2298	2293	2283	23			
10	HQAM	25	0	2159	2165	2158				
10	HQAM	25	12	2171	2167	2163				
10	HQAM	25	25	2168	2171	2162	23			
10	HQAM	50	0	2170	2184	2182				
10	HQAM	1	25	2158	2150	2175				
10	HQAM	1	49	2167	2163	2157	22			
10	HQAM	25	0	2064	2055	2065				
10	HQAM	25	12	2077	2072	2067				
10	HQAM	25	25	2071	2074	2065	20			
10	HQAM	50	0	2073	2069	2065				
10	256QAM	1	0	1848	1853	1858				
10	256QAM	1	25	1853	1850	1851	20			
10	256QAM	1	49	1850	1853	1854				
10	256QAM	25	0	1847	1848	1845				
10	256QAM	25	12	1848	1842	1839	20			
10	256QAM	25	25	1838	1848	1848				
10	256QAM	50	0	1851	1849	1844				
Channel				826.5	826.5	826.5				
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	0	2361	2362	2360	25			
5	QPSK	1	24	2366	2363	2362				
5	QPSK	1	24	2357	2359	2353				
5	QPSK	12	0	2263	2273	2265	24			
5	QPSK	12	6	2270	2274	2268				
5	QPSK	12	12	2285	2287	2287				
5	QPSK	25	0	2268	2272	2258	24			
5	HQAM	1	0	2294	2291	2293				
5	HQAM	1	12	2292	2299	2284				
5	HQAM	1	24	2294	2298	2290	23			
5	HQAM	12	0	2187	2175	2187				
5	HQAM	12	7	2171	2177	2181				
5	HQAM	12	13	2166	2169	2154	23			
5	HQAM	25	0	2172	2174	2160				
5	HQAM	1	0	2188	2195	2186				
5	HQAM	1	24	2183	2190	2178	23			
5	HQAM	1	24	2188	2191	2192				
5	HQAM	12	0	2074	2080	2055				
5	HQAM	12	6	2078	2081	2052	22			
5	HQAM	12	12	2071	2075	2028				
5	HQAM	25	0	2073	2076	2033				
5	256QAM	1	0	1838	1838	1838	20			
5	256QAM	1	12	1850	1840	1853				
5	256QAM	1	24	1848	1845	1846				
5	256QAM	12	0	1840	1844	1840	20			
5	256QAM	12	7	1844	1837	1836				
5	256QAM	12	13	1835	1830	1846				
5	256QAM	25	0	1843	1845	1838	20			
Channel				2045	2055	2065				
Frequency (MHz)				824.7	824.5	824.3				
3	QPSK	1	0	2339	2347	2351	25			
3	QPSK	1	6	2349	2353	2348				
3	QPSK	1	11	2351	2351	2345				
3	QPSK	8	0	2285	2288	2288	24			
3	QPSK	8	4	2288	2288	2284				
3	QPSK	8	8	2283	2285	2288				
3	QPSK	16	0	2262	2260	2250	24			
3	HQAM	1	0	2291	2292	2290				
3	HQAM	1	8	2287	2297	2286				
3	HQAM	1	14	2294	2290	2273	24			
3	HQAM	8	0	2166	2169	2167				
3	HQAM	8	4	2184	2162	2163				
3	HQAM	8	7	2161	2166	2157	23			
3	HQAM	16	0	2166	2164	2152				
3	HQAM	1	0	2185	2187	2174				
3	HQAM	1	6	2178	2183	2169	23			
3	HQAM	8	0	2181	2179	2161				
3	HQAM	8	0	2081	2080	2081				
3	HQAM	8	4	2078	2072	2089	22			
3	HQAM	8	7	2083	2072	2041				
3	HQAM	16	0	2085	2059	2059				
3	256QAM	1	0	1846	1847	1849	20			
3	256QAM	1	6	1843	1847	1851				
3	256QAM	1	14	1845	1863	1845				
3	256QAM	8	0	1838	1844	1836	20			
3	256QAM	8	4	1846	1837	1836				
3	256QAM	8	7	1834	1842	1843				
3	256QAM	16	0	1848	1844	1835	20			
Channel				2047	2055	2063				
Frequency (MHz)				824.7	824.5	824.3				
1.4	QPSK	1	0	2345	2352	2343	25			
1.4	QPSK	1	3	2354	2358	2348				
1.4	QPSK	1	5	2347	2351	2339				
1.4	QPSK	3	0	2353	2352	2347	24			
1.4	QPSK	3	1	2357	2352	2350				
1.4	QPSK	3	2	2353	2357	2348				
1.4	QPSK	6	0	2268	2264	2251	24			
1.4	HQAM	1	0	2279	2284	2278				
1.4	HQAM	1	5	2285	2284	2277				
1.4	HQAM	1	5	2282	2288	2272	24			
1.4	HQAM	3	0	2283	2284	2284				
1.4	HQAM	3	1	2286	2275	2280				
1.4	HQAM	3	1	2281	2283	2249	23			
1.4	HQAM	6	0	2184	2171	2158				
1.4	HQAM	3	0	2174	2175	2139				
1.4	HQAM	1	3	2184	2181	2144	23			
1.4	HQAM	1	6	2178	2182	2139				
1.4	HQAM	3	0	2178	2174	2132				
1.4	HQAM	3	1	2178	2184	2144	22			
1.4	HQAM	6	0	2173	2175	2147				
1.4	HQAM	6	0	2059	2060	2030				
1.4	256QAM	1	0	1846	1860	1851	20			
1.4	256QAM	1	6	1846	1847	1851				
1.4	256QAM	1	6	1842	1853	1854				
1.4	256QAM	3	0	1845	1847	1841	20			
1.4	256QAM	3	0	1839	1832	1838				
1.4	256QAM	3	1	1834	1839	1841				
1.4	256QAM	6	0	1851	1840	1842	20			



Band 7_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)		
Channel				2560	2560	2560			
Frequency (MHz)				2560	2560	2560			
20	QPSK	1	0	23.87	23.84	23.99	25.5		
20	QPSK	1	49	23.93	23.99	23.94			
20	QPSK	1	99	23.99	24.06	24.02			
20	QPSK	64	0	22.07	22.02	22.02	24.5		
20	QPSK	50	24	23.10	23.09	23.08			
20	QPSK	50	50	23.11	23.16	23.13			
20	QPSK	100	0	22.07	22.07	22.05	24.5		
20	HQAM	1	0	23.27	23.30	23.29			
20	HQAM	1	49	23.29	23.28	23.38			
20	HQAM	1	99	23.33	23.40	23.34			
20	HQAM	50	0	21.98	22.04	22.02	23.5		
20	HQAM	50	24	22.10	22.10	22.06			
20	HQAM	50	50	22.13	22.17	22.14			
20	HQAM	100	0	22.08	22.07	22.03	23.5		
20	HQAM	1	49	22.10	22.26	22.21			
20	HQAM	1	99	22.24	22.32	22.27			
20	HQAM	50	0	21.08	21.08	21.05	22.5		
20	HQAM	50	24	21.12	21.11	21.08			
20	HQAM	50	50	21.15	21.21	21.15			
20	HQAM	100	0	21.12	21.05	21.07	20.5		
20	SSBQAM	1	0	19.20	19.27	19.13			
20	SSBQAM	1	49	19.20	19.16	19.22			
20	SSBQAM	1	99	19.12	19.17	19.11			
20	SSBQAM	50	0	19.12	19.12	19.07	20.5		
20	SSBQAM	50	24	19.22	19.14	19.10			
20	SSBQAM	50	50	19.17	19.16	19.13			
20	SSBQAM	100	0	19.23	19.11	19.05			
Channel				2575.5	2575.5	2575.5	Time-up (min)		
Frequency (MHz)				2575.5	2575.5	2575.5			
15	QPSK	1	0	23.83	23.84	23.95	25.5		
15	QPSK	1	49	23.86	23.90	23.85			
15	QPSK	1	74	23.97	24.04	23.94			
15	QPSK	30	0	22.95	22.98	23.00	24.5		
15	QPSK	30	20	23.08	23.04	23.04			
15	QPSK	30	39	23.08	23.13	23.09			
15	QPSK	75	0	23.02	23.01	23.01	24.5		
15	HQAM	1	0	23.23	23.30	23.29			
15	HQAM	1	39	23.24	23.36	23.30			
15	HQAM	1	74	23.31	23.34	23.24	23.5		
15	HQAM	30	0	21.88	22.04	22.01			
15	HQAM	30	20	22.10	22.02	21.97			
15	HQAM	30	39	22.10	22.09	22.14	23.5		
15	HQAM	75	0	21.98	22.05	21.94			
15	HQAM	1	0	22.07	22.08	22.06	23.5		
15	HQAM	1	74	22.14	22.25	22.17			
15	HQAM	30	0	20.95	20.98	21.02	22.5		
15	HQAM	30	20	21.03	21.02	21.06			
15	HQAM	30	39	21.12	21.21	21.05			
15	HQAM	75	0	21.99	21.05	21.00	20.5		
15	SSBQAM	1	0	19.17	19.25	19.13			
15	SSBQAM	1	39	19.16	19.12	19.19			
15	SSBQAM	1	74	19.24	19.15	19.10	20.5		
15	SSBQAM	30	0	19.04	19.12	19.04			
15	SSBQAM	30	20	19.14	19.05	19.05			
15	SSBQAM	30	39	19.16	19.14	19.06	20.5		
15	SSBQAM	75	0	19.23	19.04	19.07			
Channel				2090	2100	2100	Time-up (min)		
Frequency (MHz)				2090	2100	2100			
10	QPSK	1	0	23.89	23.92	23.99	25.5		
10	QPSK	1	25	23.93	23.90	23.84			
10	QPSK	1	49	23.96	24.01	23.96			
10	QPSK	25	0	22.91	22.99	22.97	24.5		
10	QPSK	25	12	23.07	23.06	23.00			
10	QPSK	25	25	23.01	23.09	23.03			
10	QPSK	50	0	22.99	23.06	23.01	24.5		
10	HQAM	1	0	23.17	23.24	23.26			
10	HQAM	1	25	23.27	23.34	23.35			
10	HQAM	1	49	23.31	23.39	23.31	23.5		
10	HQAM	25	0	21.92	22.00	21.95			
10	HQAM	25	12	22.07	22.08	22.06			
10	HQAM	25	25	22.08	22.10	22.07	23.5		
10	HQAM	50	0	22.02	22.04	22.00			
10	HQAM	1	0	22.00	22.13	22.10	23.5		
10	HQAM	1	25	22.06	22.16	22.18			
10	HQAM	1	49	22.14	22.31	22.25			
10	HQAM	25	0	20.91	21.02	20.96	22.5		
10	HQAM	25	12	21.04	21.04	21.02			
10	HQAM	25	25	21.08	21.14	21.09			
10	HQAM	50	0	21.10	21.05	21.02	20.5		
10	SSBQAM	1	0	19.15	19.19	19.10			
10	SSBQAM	1	25	19.20	19.07	19.22			
10	SSBQAM	1	49	19.18	19.09	19.03	20.5		
10	SSBQAM	25	0	19.03	19.05	19.06			
10	SSBQAM	25	12	19.21	19.07	19.09			
10	SSBQAM	25	25	19.16	19.08	19.08	20.5		
10	SSBQAM	50	0	19.18	19.04	19.09			
Channel				2077.5	2100	2102.5	Time-up (min)		
Frequency (MHz)				2077.5	2100	2102.5			
5	QPSK	1	0	23.84	23.83	23.90	25.5		
5	QPSK	1	10	23.93	23.93	23.88			
5	QPSK	1	24	23.99	24.02	23.95			
5	QPSK	10	0	22.96	22.93	22.99	24.5		
5	QPSK	12	7	23.09	23.02	22.96			
5	QPSK	12	13	23.11	23.14	23.13			
5	QPSK	24	0	23.04	22.98	23.01	24.5		
5	HQAM	1	0	23.17	23.23	23.19			
5	HQAM	1	10	23.25	23.33	23.30			
5	HQAM	1	24	23.32	23.34	23.34	23.5		
5	HQAM	12	0	21.94	21.98	21.98			
5	HQAM	12	13	22.03	22.02	22.05	23.5		
5	HQAM	12	13	22.10	22.15	22.14			
5	HQAM	25	0	22.00	22.07	21.95			
5	HQAM	1	0	22.01	22.10	22.09	23.5		
5	HQAM	1	12	22.10	22.21	22.15			
5	HQAM	11	24	22.19	22.31	22.19			
5	HQAM	12	0	20.91	20.99	20.99	22.5		
5	HQAM	12	7	21.07	21.02	21.03			
5	HQAM	12	13	21.08	21.17	21.08			
5	HQAM	25	0	21.04	21.02	21.07	20.5		
5	SSBQAM	1	0	19.11	19.25	19.11			
5	SSBQAM	1	10	19.26	19.06	19.15			
5	SSBQAM	1	24	19.08	19.10	19.03	20.5		
5	SSBQAM	12	0	19.08	19.06	19.06			
5	SSBQAM	12	7	19.22	19.13	19.00			
5	SSBQAM	12	13	19.12	19.07	19.13	20.5		
5	SSBQAM	25	0	19.22	19.07	19.02			



Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
10	QPSK	1	0	2448	2458	2459			
10	QPSK	1	25	2439	2442	2440			25.7
10	QPSK	1	49	2450	2443	2448			
10	QPSK	25	0	2353	2354	2353			
10	QPSK	25	12	2380	2353	2353			24.7
10	QPSK	25	25	2358	2359	2360			
10	QPSK	50	0	2381	2353	2353			
10	HQAM	1	0	2382	2376	2378			24.7
10	HQAM	1	25	2381	2382	2380			
10	HQAM	1	49	2387	2385	2378			
10	HQAM	25	0	2254	2255	2253			
10	HQAM	25	12	2261	2255	2254			23.7
10	HQAM	25	25	2259	2260	2257			
10	HQAM	50	0	2260	2255	2252			
10	HQAM	50	12	2254	2254	2262			
10	HQAM	1	25	2271	2276	2274			23.7
10	HQAM	1	49	2273	2254	2239			
10	HQAM	25	0	2127	2136	2136			
10	HQAM	25	12	2149	2155	2158			22.7
10	HQAM	25	25	2153	2160	2161			
10	HQAM	50	0	2141	2155	2159			
10	256QAM	1	0	1947	1986	1947			20.7
10	256QAM	1	25	1953	1973	1949			
10	256QAM	1	49	1964	1955	1937			
10	256QAM	25	0	1944	1946	1940			
10	256QAM	25	12	1945	1946	1946			20.7
10	256QAM	25	25	1939	1941	1943			
10	256QAM	50	0	1951	1943	1941			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
5	QPSK	1	0	2448	2447	2439			
5	QPSK	1	25	2448	2448	2440			25.7
5	QPSK	1	24	2447	2449	2446			
5	QPSK	12	0	2362	2354	2355			
5	QPSK	12	6	2355	2359	2359			24.7
5	QPSK	12	12	2355	2354	2351			
5	QPSK	25	0	2358	2352	2352			
5	HQAM	1	0	2383	2383	2373			24.7
5	HQAM	1	12	2380	2379	2373			
5	HQAM	1	24	2382	2380	2376			
5	HQAM	12	0	2266	2262	2259			
5	HQAM	12	6	2258	2264	2254			23.7
5	HQAM	12	12	2265	2259	2254			
5	HQAM	25	0	2259	2253	2253			
5	HQAM	1	0	2224	2237	2286			23.7
5	HQAM	1	24	2248	2274	2299			
5	HQAM	1	24	2223	2273	2249			
5	HQAM	12	0	2135	2164	2160			
5	HQAM	12	6	2145	2167	2161			22.7
5	HQAM	12	12	2135	2180	2142			
5	HQAM	25	0	2111	2157	2150			
5	256QAM	1	0	1938	1936	1945			20.7
5	256QAM	1	12	1950	1984	1939			
5	256QAM	1	24	1952	1947	1954			
5	256QAM	12	0	1943	1938	1932			20.7
5	256QAM	12	6	1938	1932	1945			
5	256QAM	12	12	1938	1938	1934			
5	256QAM	25	0	1947	1933	1933			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
3	QPSK	1	0	2448	2437	2433			
3	QPSK	1	6	2434	2442	2436			25.7
3	QPSK	1	11	2443	2433	2436			
3	QPSK	6	0	2343	2354	2348			
3	QPSK	6	4	2352	2349	2351			24.7
3	QPSK	6	8	2349	2358	2351			
3	QPSK	16	0	2358	2351	2345			
3	HQAM	1	0	2376	2386	2370			24.7
3	HQAM	1	6	2376	2379	2372			
3	HQAM	1	14	2385	2383	2389			
3	HQAM	6	0	2252	2251	2249			23.7
3	HQAM	6	4	2260	2245	2242			
3	HQAM	6	7	2250	2250	2254			
3	HQAM	16	0	2267	2250	2245			23.7
3	HQAM	1	0	2247	2255	2267			
3	HQAM	1	6	2266	2272	2274			
3	HQAM	1	14	2266	2248	2233			
3	HQAM	6	0	2117	2131	2155			22.7
3	HQAM	6	4	2140	2152	2159			
3	HQAM	6	7	2147	2153	2153			
3	HQAM	16	0	2131	2149	2150			
3	256QAM	1	0	1944	1967	1941			20.7
3	256QAM	1	6	1949	1958	1948			
3	256QAM	1	14	1958	1954	1949			
3	256QAM	6	0	1943	1936	1930			20.7
3	256QAM	6	4	1943	1939	1943			
3	256QAM	6	7	1937	1941	1942			
3	256QAM	16	0	1943	1937	1939			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
1.4	QPSK	1	0	2444	2433	2436			
1.4	QPSK	1	3	2444	2442	2438			25.7
1.4	QPSK	1	5	2437	2436	2429			
1.4	QPSK	1	11	2442	2438	2437			
1.4	QPSK	3	1	2449	2442	2440			
1.4	QPSK	3	3	2443	2443	2437			24.7
1.4	QPSK	6	0	2359	2347	2343			
1.4	HQAM	1	0	2376	2367	2371			24.7
1.4	HQAM	1	6	2376	2386	2377			
1.4	HQAM	1	5	2370	2369	2363			
1.4	HQAM	3	0	2353	2347	2347			
1.4	HQAM	3	6	2366	2351	2350			23.7
1.4	HQAM	3	1	2351	2350	2343			
1.4	HQAM	6	0	2257	2256	2249			
1.4	HQAM	1	0	2234	2261	2237			23.7
1.4	HQAM	1	3	2245	2272	2234			
1.4	HQAM	1	6	2247	2263	2220			
1.4	HQAM	3	0	2228	2256	2239			
1.4	HQAM	3	1	2228	2261	2237			
1.4	HQAM	6	0	2267	2261	2268			22.7
1.4	HQAM	6	0	2123	2150	2123			
1.4	256QAM	1	0	1938	1958	1939			20.7
1.4	256QAM	1	6	1945	1971	1941			
1.4	256QAM	1	5	1951	1954	1953			
1.4	256QAM	3	0	1943	1943	1936			20.7
1.4	256QAM	3	6	1938	1942	1937			
1.4	256QAM	3	1	1939	1931	1938			
1.4	256QAM	6	0	1949	1937	1939			20.7



Band 13_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2153		
10	QPSK	1	25	2151		
10	QPSK	1	49	2157		
10	QPSK	25	0	2240		
10	QPSK	25	12	2241		
10	QPSK	25	25	2245		
10	QPSK	50	0	2251		
10	16QAM	1	0	2282		
10	16QAM	1	25	2286		
10	16QAM	1	49	2288		
10	16QAM	25	0	2151		
10	16QAM	25	12	2156		
10	16QAM	25	25	2160		
10	16QAM	50	0	2194		
10	16QAM	1	0	2190		
10	16QAM	1	25	2151		
10	16QAM	1	49	2178		
10	16QAM	25	0	2095		
10	16QAM	25	12	2089		
10	16QAM	25	25	2071		
10	16QAM	50	0	2068		
10	256QAM	1	0	1825		
10	256QAM	1	25	1850		
10	256QAM	1	49	1870		
10	256QAM	25	0	1841		
10	256QAM	25	12	1846		
10	256QAM	25	25	1859		
10	256QAM	50	0	1844		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2345	2348	2322
5	QPSK	1	24	2350	2354	2334
5	QPSK	1	24	2355	2356	2331
5	QPSK	12	0	2258	2259	2232
5	QPSK	12	12	2262	2263	2240
5	QPSK	12	12	2265	2267	2238
5	QPSK	25	0	2265	2263	2237
5	16QAM	1	0	2284	2278	2250
5	16QAM	1	12	2275	2282	2249
5	16QAM	1	24	2284	2288	2251
5	16QAM	12	0	2182	2184	2136
5	16QAM	12	7	2188	2184	2143
5	16QAM	12	13	2184	2171	2142
5	16QAM	25	0	2170	2163	2141
5	16QAM	1	0	2173	2168	2142
5	16QAM	1	24	2169	2181	2149
5	16QAM	1	24	2177	2181	2148
5	16QAM	12	0	2086	2070	2043
5	16QAM	12	7	2072	2087	2045
5	16QAM	12	13	2071	2075	2043
5	16QAM	25	0	2073	2086	2042
5	256QAM	1	0	1816	1824	1822
5	256QAM	1	12	1843	1845	1847
5	256QAM	1	24	1865	1867	1866
5	256QAM	12	0	1837	1835	1838
5	256QAM	12	7	1848	1836	1840
5	256QAM	12	13	1838	1835	1834
5	256QAM	25	0	1837	1834	1841



Band 14_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	23.68	23.68	23.68
10	QPSK	1	49	23.68	23.68	23.68
10	QPSK	25	0	22.63	22.63	22.63
10	QPSK	25	12	22.65	22.65	22.65
10	QPSK	25	25	22.74	22.74	22.74
10	QPSK	50	0	22.97	22.97	22.97
10	HQAM	1	0	23.92	23.92	23.92
10	HQAM	1	25	22.99	22.99	22.99
10	HQAM	1	49	22.97	22.97	22.97
10	HQAM	25	0	21.85	21.85	21.85
10	HQAM	25	12	21.88	21.88	21.88
10	HQAM	25	25	21.73	21.73	21.73
10	HQAM	50	0	21.88	21.88	21.88
10	HQAM	1	0	21.90	21.90	21.90
10	HQAM	1	25	21.95	21.95	21.95
10	HQAM	1	49	21.90	21.90	21.90
10	HQAM	25	0	20.87	20.87	20.87
10	HQAM	25	12	20.89	20.89	20.89
10	HQAM	25	25	20.76	20.76	20.76
10	HQAM	50	0	20.87	20.87	20.87
10	256QAM	1	0	18.45	18.45	18.45
10	256QAM	1	25	18.58	18.58	18.58
10	256QAM	1	49	18.74	18.74	18.74
10	256QAM	25	0	18.50	18.50	18.50
10	256QAM	25	12	18.44	18.44	18.44
10	256QAM	25	25	18.47	18.47	18.47
10	256QAM	50	0	18.50	18.50	18.50
Channel						
Frequency (MHz)						
5	QPSK	1	0	23.68	23.68	23.68
5	QPSK	1	49	23.63	23.63	23.63
5	QPSK	1	24	23.65	23.64	23.58
5	QPSK	12	0	22.71	22.65	22.84
5	QPSK	12	12	22.76	22.73	22.70
5	QPSK	12	13	22.71	22.73	22.88
5	QPSK	25	0	22.89	22.86	22.83
5	HQAM	1	0	22.91	22.92	22.97
5	HQAM	1	12	23.00	23.02	22.98
5	HQAM	1	24	22.98	23.00	22.90
5	HQAM	12	0	21.73	21.68	21.64
5	HQAM	12	7	21.77	21.77	21.78
5	HQAM	12	13	21.73	21.72	21.86
5	HQAM	25	0	21.71	21.68	21.64
5	HQAM	1	0	21.87	21.89	21.85
5	HQAM	1	49	21.93	22.00	21.94
5	HQAM	1	24	21.90	21.95	21.92
5	HQAM	12	0	20.80	20.71	20.89
5	HQAM	12	7	20.78	20.83	20.75
5	HQAM	12	13	20.75	20.76	20.89
5	HQAM	25	0	20.72	20.87	20.89
5	256QAM	1	0	18.38	18.37	18.42
5	256QAM	1	12	18.55	18.48	18.55
5	256QAM	1	24	18.74	18.72	18.65
5	256QAM	12	7	18.38	18.34	18.35
5	256QAM	12	13	18.47	18.46	18.30
5	256QAM	25	0	18.40	18.47	18.44





Band 17_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)	
Channel				700	710	711		
Frequency (MHz)				2490	2490	2490		
10	QPSK	1	0	2335	2331	2332	25	
10	QPSK	1	24	2338	2337	2337		
10	QPSK	1	48	2337	2345	2338		
10	QPSK	25	0	2238	2230	2241	24	
10	QPSK	25	12	2232	2250	2248		
10	QPSK	25	24	2239	2237	2235		
10	QPSK	50	0	2247	2248	2245	24	
10	QPSK	50	12	2270	2288	2289		
10	QPSK	50	24	2275	2278	2274		
10	HQAM	1	0	2278	2280	2277	23	
10	HQAM	1	48	2141	2141	2141		
10	HQAM	1	96	2155	2148	2147		
10	HQAM	25	0	2157	2154	2151	23	
10	HQAM	25	12	2144	2148	2142		
10	HQAM	25	24	2155	2154	2150		
10	HQAM	50	0	2157	2159	2158	23	
10	HQAM	50	12	2153	2160	2148		
10	HQAM	50	24	2043	2043	2044		
10	HQAM	25	12	2039	2051	2051	22	
10	HQAM	25	24	2039	2038	2038		
10	HQAM	50	0	2049	2047	2045		
10	256QAM	1	0	1834	1839	1822	20	
10	256QAM	1	24	1843	1840	1841		
10	256QAM	1	48	1854	1847	1838		
10	256QAM	25	0	1831	1827	1830	20	
10	256QAM	25	12	1830	1846	1834		
10	256QAM	25	24	1840	1837	1839		
10	256QAM	50	0	1827	1840	1831	20	
Channel				2531.8	2531.0	2531.5		
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	2333	2328	2327	25	
5	QPSK	1	24	2343	2342	2330		
5	QPSK	1	48	2343	2344	2340		
5	QPSK	12	0	2244	2246	2241	24	
5	QPSK	12	12	2251	2248	2243		
5	QPSK	12	24	2253	2252	2245		
5	QPSK	25	0	2249	2247	2242	24	
5	HQAM	1	0	2265	2267	2266		
5	HQAM	1	12	2274	2278	2270		
5	HQAM	1	24	2278	2278	2275	24	
5	HQAM	12	0	2148	2147	2146		
5	HQAM	12	12	2153	2152	2145		
5	HQAM	12	24	2154	2152	2147	23	
5	HQAM	25	0	2151	2148	2144		
5	HQAM	1	0	2157	2166	2163		
5	HQAM	1	24	2166	2170	2164	23	
5	HQAM	1	48	2179	2178	2167		
5	HQAM	12	0	2030	2040	2047		
5	HQAM	12	12	2037	2035	2031	22	
5	HQAM	12	24	2037	2038	2032		
5	HQAM	25	0	2031	2040	2041		
5	256QAM	1	0	1825	1831	1816	20	
5	256QAM	1	12	1840	1845	1842		
5	256QAM	1	24	1852	1839	1837		
5	256QAM	12	0	1828	1825	1825	20	
5	256QAM	12	12	1828	1833	1830		
5	256QAM	12	24	1836	1837	1837		
5	256QAM	25	0	1820	1830	1831		





Band 26_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Power Max	Power Min	Power Avg	Time-up (sec)
Channel										
Frequency (MHz)				811.5	811.5	811.5				
15	QPSK	1	0	2340	2340	2341				25
15	QPSK	1	37	2348	2348	2341				
15	QPSK	1	74	2351	2348	2333				
15	QPSK	36	0	2263	2264	2257				
15	QPSK	36	20	2261	2263	2255				24
15	QPSK	36	39	2262	2262	2254				
15	QPSK	75	0	2268	2264	2257				
15	QPSK	1	0	2287	2279	2278				
15	HQAM	1	37	2278	2278	2276				24
15	HQAM	1	74	2274	2274	2264				
15	HQAM	36	0	2161	2160	2159				
15	HQAM	36	20	2164	2164	2156				23
15	HQAM	36	39	2161	2162	2158				
15	HQAM	75	0	2168	2164	2159				
15	HQAM	1	0	2173	2174	2166				
15	HQAM	1	37	2171	2174	2168				23
15	HQAM	1	74	2173	2168	2166				
15	HQAM	36	0	2038	2033	2035				
15	HQAM	36	20	2032	2039	2040				22
15	HQAM	36	39	2035	2038	2048				
15	HQAM	75	0	2037	2038	2039				
15	256QAM	1	0	1854	1853	1858				
15	256QAM	1	37	1859	1853	1850				20
15	256QAM	1	74	1850	1857	1849				
15	256QAM	36	0	1848	1850	1850				
15	256QAM	36	20	1848	1847	1838				20
15	256QAM	36	39	1837	1841	1842				
15	256QAM	75	0	1848	1851	1839				
Channel										
Frequency (MHz)				819	811.5	811				
10	QPSK	1	0	2354	2339	2345				25
10	QPSK	1	26	2338	2340	2342				
10	QPSK	1	49	2342	2349	2329				
10	QPSK	26	0	2259	2255	2255				
10	QPSK	26	13	2263	2260	2250				24
10	QPSK	26	26	2262	2267	2249				
10	QPSK	50	0	2264	2264	2253				
10	HQAM	1	0	2282	2279	2273				
10	HQAM	1	26	2278	2273	2273				24
10	HQAM	1	49	2273	2271	2262				
10	HQAM	26	0	2167	2169	2167				
10	HQAM	26	13	2157	2158	2153				23
10	HQAM	26	26	2167	2162	2154				
10	HQAM	50	0	2169	2163	2150				
10	HQAM	1	0	2173	2162	2168				
10	HQAM	1	26	2168	2174	2159				23
10	HQAM	1	49	2171	2160	2168				
10	HQAM	26	0	2022	2030	2031				
10	HQAM	26	13	2044	2037	2037				22
10	HQAM	26	26	2037	2032	2042				
10	HQAM	50	0	2032	2030	2031				
10	256QAM	1	0	1851	1849	1855				20
10	256QAM	1	26	1849	1847	1847				
10	256QAM	1	49	1849	1848	1847				
10	256QAM	26	0	1841	1845	1843				20
10	256QAM	26	13	1848	1845	1839				
10	256QAM	26	26	1835	1840	1842				
10	256QAM	50	0	1845	1841	1837				
Channel										
Frequency (MHz)				816.5	816.5	816.5				
5	QPSK	1	0	2353	2340	2347				25
5	QPSK	1	13	2337	2344	2335				
5	QPSK	1	26	2338	2342	2339				
5	QPSK	12	0	2280	2255	2257				
5	QPSK	12	7	2257	2258	2253				24
5	QPSK	12	14	2260	2252	2256				
5	QPSK	26	0	2262	2264	2248				
5	HQAM	1	0	2287	2278	2274				
5	HQAM	1	13	2273	2279	2272				24
5	HQAM	1	26	2264	2267	2258				
5	HQAM	12	0	2167	2158	2149				
5	HQAM	12	7	2159	2161	2147				23
5	HQAM	12	14	2158	2160	2153				
5	HQAM	26	0	2164	2164	2157				
5	HQAM	1	0	2172	2160	2163				
5	HQAM	1	13	2169	2171	2168				23
5	HQAM	1	26	2171	2159	2168				
5	HQAM	12	0	2020	2034	2037				
5	HQAM	12	7	2046	2030	2032				22
5	HQAM	12	14	2039	2037	2049				
5	HQAM	26	0	2035	2037	2037				
5	256QAM	1	0	1854	1848	1848				20
5	256QAM	1	13	1859	1848	1848				
5	256QAM	1	26	1849	1850	1839				
5	256QAM	12	0	1845	1839	1839				20
5	256QAM	12	13	1827	1841	1838				
5	256QAM	26	0	1848	1843	1838				
Channel										
Frequency (MHz)				814.7	811.5	811.5				
1.4	QPSK	1	0	2357	2342	2341				25
1.4	QPSK	1	0	2358	2354	2349				
1.4	QPSK	1	0	2353	2344	2331				
1.4	QPSK	3	0	2359	2345	2341				
1.4	QPSK	3	0	2357	2352	2346				
1.4	QPSK	3	3	2359	2349	2344				24
1.4	QPSK	6	0	2267	2267	2256				
1.4	HQAM	1	0	2292	2282	2289				
1.4	HQAM	1	3	2295	2284	2274				24
1.4	HQAM	3	0	2288	2274	2281				
1.4	HQAM	3	0	2270	2257	2249				
1.4	HQAM	3	1	2277	2262	2252				
1.4	HQAM	6	0	2268	2260	2244				
1.4	HQAM	6	0	2171	2185	2151				23
1.4	HQAM	1	0	2144	2174	2152				
1.4	HQAM	1	0	2169	2162	2159				23
1.4	HQAM	1	0	2144	2174	2152				
1.4	HQAM	3	0	2146	2188	2150				
1.4	HQAM	3	3	2151	2173	2158				
1.4	HQAM	3	3	2144	2171	2157				22
1.4	HQAM	6	0	2027	2061	2030				
1.4	256QAM	1	0	1833	1851	1855				
1.4	256QAM	1	3	1858	1847	1850				20
1.4	256QAM	3	0	1846	1848	1849				
1.4	256QAM	3	1	1838	1844	1830				
1.4	256QAM	6	0	1830	1835	1839				
1.4	256QAM	6	0	1844	1843	1838				20



Band 30_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq	Power Middle Ch. F/Freq	Power High Ch. F/Freq	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.87			25.7
10	QPSK	1	25	23.88			
10	QPSK	1	49	23.85			
10	QPSK	25	0	22.90			24.7
10	QPSK	25	12	22.94			
10	QPSK	25	25	22.96			
10	QPSK	50	0	22.94			24.7
10	16QAM	1	0	23.21			
10	16QAM	1	25	23.25			
10	16QAM	1	49	23.23			23.7
10	16QAM	25	0	21.88			
10	16QAM	25	12	21.97			
10	16QAM	25	25	21.94			23.7
10	16QAM	50	0	21.93			
10	16QAM	1	0	22.90			
10	16QAM	1	25	22.17			22.7
10	16QAM	1	49	22.02			
10	16QAM	25	0	20.92			
10	16QAM	25	12	21.82			22.7
10	16QAM	25	25	20.95			
10	16QAM	50	0	20.98			
10	256QAM	1	0	19.20			20.7
10	256QAM	1	25	19.23			
10	256QAM	1	49	19.13			
10	256QAM	25	0	18.96			20.7
10	256QAM	25	12	19.06			
10	256QAM	25	25	19.03			
10	256QAM	50	0	19.03			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.75	23.79	23.86	25.7
5	QPSK	1	24	23.82	23.86	23.90	
5	QPSK	1	24	23.85	23.87	23.79	
5	QPSK	12	0	22.87	22.89	22.94	24.7
5	QPSK	12	12	22.98	22.94	22.98	
5	QPSK	12	12	22.89	22.83	22.86	
5	QPSK	25	0	22.97	22.94	22.96	24.7
5	16QAM	1	0	23.07	23.10	23.17	
5	16QAM	1	12	23.18	23.17	23.19	
5	16QAM	1	24	23.24	23.18	23.29	23.7
5	16QAM	12	0	22.01	21.98	22.00	
5	16QAM	12	12	22.01	21.95	21.96	
5	16QAM	25	0	21.98	21.94	21.94	23.7
5	16QAM	1	0	22.03	22.08	21.87	
5	16QAM	1	24	22.16	22.14	21.97	
5	16QAM	1	24	22.16	22.09	21.83	22.7
5	16QAM	12	0	20.94	20.96	20.93	
5	16QAM	12	12	21.05	21.02	20.95	
5	16QAM	12	12	21.05	20.96	20.95	20.7
5	16QAM	25	0	21.01	21.00	20.81	
5	256QAM	1	0	19.11	19.19	19.16	
5	256QAM	1	12	19.21	19.19	19.22	20.7
5	256QAM	1	24	19.06	19.05	19.07	
5	256QAM	12	0	18.93	18.98	19.00	
5	256QAM	12	7	18.99	19.08	18.96	20.7
5	256QAM	12	19	19.03	18.93	18.99	
5	256QAM	25	0	19.03	18.96	19.01	





Band 71_Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Time-up	Time-down	Time-up			
Channel				13029	13030	13031	Time-up					
Frequency (MHz)				693	693	693	Time-up					
20	QPSK	1	0	2348	2348	2337	25					
20	QPSK	1	49	2342	2341	2337						
20	QPSK	1	99	2336	2339	2338						
20	QPSK	60	0	2257	2258	2248	24					
20	QPSK	50	24	2254	2249	2248						
20	QPSK	50	50	2258	2251	2250						
20	HQAM	100	0	2251	2252	2248	24					
20	HQAM	1	0	2288	2282	2274						
20	HQAM	1	49	2277	2277	2276						
20	HQAM	1	99	2271	2272	2271	23					
20	HQAM	50	0	2159	2153	2148						
20	HQAM	50	24	2161	2161	2149						
20	HQAM	50	50	2158	2153	2150	23					
20	HQAM	100	0	2159	2148	2148						
20	HQAM	1	0	2173	2167	2163						
20	HQAM	1	49	2158	2150	2158	22					
20	HQAM	1	99	2159	2163	2160						
20	HQAM	50	0	2053	2056	2047						
20	HQAM	50	24	2083	2054	2051	20					
20	HQAM	50	50	2080	2058	2053						
20	HQAM	100	0	2081	2052	2049						
20	SSBQAM	1	0	1858	1844	1837	20					
20	SSBQAM	1	49	1857	1832	1846						
20	SSBQAM	1	99	1846	1845	1848						
20	SSBQAM	50	0	1847	1843	1830	20					
20	SSBQAM	50	24	1841	1836	1829						
20	SSBQAM	50	50	1835	1835	1827						
20	SSBQAM	100	0	1843	1838	1829	20					
Channel				13119	13120	13121				Time-up		
Frequency (MHz)				670.5	680.5	690.5				Time-up		
15	QPSK	1	0	2341	2348	2329	25					
15	QPSK	1	49	2340	2337	2330						
15	QPSK	1	74	2325	2330	2327						
15	QPSK	30	0	2249	2248	2241	24					
15	QPSK	30	20	2250	2245	2240						
15	QPSK	30	39	2247	2241	2244						
15	QPSK	75	0	2247	2245	2242	24					
15	HQAM	1	0	2288	2282	2271						
15	HQAM	1	39	2275	2267	2268						
15	HQAM	1	74	2268	2270	2270	23					
15	HQAM	30	0	2153	2153	2144						
15	HQAM	30	20	2158	2142	2144						
15	HQAM	30	39	2148	2151	2146	23					
15	HQAM	75	0	2153	2141	2144						
15	HQAM	1	0	2168	2157	2162						
15	HQAM	1	49	2158	2151	2155	23					
15	HQAM	1	74	2150	2158	2160						
15	HQAM	30	0	2047	2049	2042						
15	HQAM	30	20	2052	2054	2050	22					
15	HQAM	30	39	2052	2054	2050						
15	HQAM	75	0	2058	2048	2049						
15	SSBQAM	1	0	1853	1840	1835	20					
15	SSBQAM	1	39	1852	1831	1843						
15	SSBQAM	1	74	1841	1835	1847						
15	SSBQAM	30	0	1843	1840	1834	20					
15	SSBQAM	30	20	1838	1835	1823						
15	SSBQAM	30	39	1830	1830	1822						
15	SSBQAM	75	0	1830	1833	1819	20					
Channel				13112	13122	13122				Time-up		
Frequency (MHz)				682.5	672.5	682.5				Time-up		
10	QPSK	1	0	2340	2348	2335	25					
10	QPSK	1	25	2340	2338	2334						
10	QPSK	1	49	2325	2334	2334						
10	QPSK	25	0	2287	2283	2280	24					
10	QPSK	25	12	2283	2248	2247						
10	QPSK	25	25	2281	2248	2249						
10	QPSK	50	0	2248	2245	2240	24					
10	HQAM	1	0	2288	2282	2270						
10	HQAM	1	25	2287	2269	2276						
10	HQAM	1	49	2284	2282	2285	24					
10	HQAM	25	0	2152	2152	2139						
10	HQAM	25	12	2159	2151	2146						
10	HQAM	25	25	2150	2143	2148	23					
10	HQAM	50	0	2154	2148	2140						
10	HQAM	1	0	2172	2163	2155						
10	HQAM	1	25	2184	2127	2153	23					
10	HQAM	1	49	2149	2156	2159						
10	HQAM	25	0	2040	2036	2040						
10	HQAM	25	12	2052	2045	2049	22					
10	HQAM	25	25	2058	2053	2051						
10	HQAM	50	0	2058	2050	2042						
10	SSBQAM	1	0	1848	1839	1832	20					
10	SSBQAM	1	25	1847	1824	1841						
10	SSBQAM	1	49	1845	1843	1844						
10	SSBQAM	25	0	1838	1840	1832	20					
10	SSBQAM	25	12	1834	1828	1823						
10	SSBQAM	25	25	1833	1834	1823						
10	SSBQAM	50	0	1841	1838	1823	20					
Channel				13147	13147	13147				Time-up		
Frequency (MHz)				682.5	672.5	682.5				Time-up		
5	QPSK	1	0	2341	2345	2331	25					
5	QPSK	1	12	2338	2341	2331						
5	QPSK	1	24	2328	2338	2329						
5	QPSK	10	0	2250	2255	2238	24					
5	QPSK	12	7	2245	2243	2230						
5	QPSK	12	13	2250	2244	2248						
5	QPSK	25	0	2243	2244	2242	24					
5	HQAM	1	0	2279	2277	2285						
5	HQAM	1	12	2270	2274	2287						
5	HQAM	1	24	2282	2269	2282	24					
5	HQAM	12	0	2149	2152	2148						
5	HQAM	12	13	2154	2146	2140						
5	HQAM	12	13	2149	2148	2149	23					
5	HQAM	25	0	2153	2139	2146						
5	HQAM	1	0	2173	2160	2158						
5	HQAM	1	12	2182	2188	2185	23					
5	HQAM	1	24	2159	2160	2159						
5	HQAM	12	0	2048	2047	2043						
5	HQAM	12	7	2061	2053	2049	22					
5	HQAM	12	13	2059	2054	2048						
5	HQAM	25	0	2059	2052	2047						
5	SSBQAM	1	0	1855	1838	1849	20					
5	SSBQAM	1	12	1857	1823	1846						
5	SSBQAM	1	24	1842	1841	1848						
5	SSBQAM	12	0	1847	1835	1832	20					
5	SSBQAM	12	13	1840	1832	1827						
5	SSBQAM	12	13	1830	1828	1820						
5	SSBQAM	25	0	1834	1827	1822	20					









Band 5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up time (min)		
Channel				2040	2065	2090			
Frequency (MHz)				180	186.5	194			
10	QPSK	1	0	2448	2454	2460			
10	QPSK	1	26	2448	2452	2456			25.7
10	QPSK	1	49	2458	2448	2443			
10	QPSK	26	0	2358	2344	2332			
10	QPSK	26	12	2369	2365	2362			24.7
10	QPSK	26	25	2363	2367	2362			
10	QPSK	26	0	2327	2344	2350			
10	QPSK	1	0	2388	2389	2384			
10	HQAM	1	25	2330	2333	2331			24.7
10	HQAM	1	49	2355	2350	2351			
10	HQAM	26	0	2257	2252	2259			
10	HQAM	26	12	2258	2254	2257			23.7
10	HQAM	26	25	2264	2263	2256			
10	HQAM	26	0	2228	2232	2228			
10	HQAM	1	0	2244	2239	2239			
10	HQAM	1	26	2252	2257	2252			23.7
10	HQAM	1	49	2282	2281	2278			
10	HQAM	26	0	2162	2166	2164			
10	HQAM	26	12	2171	2169	2167			22.7
10	HQAM	26	25	2186	2170	2157			
10	HQAM	26	0	2130	2166	2162			
10	SSBQAM	1	0	1940	1933	1932			
10	SSBQAM	1	26	1944	1945	1944			20.7
10	SSBQAM	1	49	1952	1948	1937			
10	SSBQAM	26	0	1941	1941	1943			
10	SSBQAM	26	12	1944	1939	1939			20.7
10	SSBQAM	26	25	1934	1938	1938			
10	SSBQAM	26	0	1944	1937	1938			
Channel				2058	2053	2053			Turn-up time (min)
Frequency (MHz)				180.5	186.5	194.5			
5	QPSK	1	0	2454	2452	2448			
5	QPSK	1	24	2450	2453	2448			25.7
5	QPSK	1	24	2446	2448	2448			
5	QPSK	12	0	2359	2370	2381			
5	QPSK	12	6	2368	2367	2355			24.7
5	QPSK	12	13	2380	2385	2384			
5	QPSK	26	0	2363	2369	2355			
5	HQAM	1	0	2359	2355	2359			
5	HQAM	1	12	2369	2355	2383			24.7
5	HQAM	1	24	2369	2361	2378			
5	HQAM	12	0	2284	2272	2281			
5	HQAM	12	7	2298	2299	2298			23.7
5	HQAM	12	13	2285	2287	2287			
5	HQAM	26	0	2259	2271	2258			
5	HQAM	1	0	2281	2290	2282			
5	HQAM	1	0	2283	2286	2287			23.7
5	HQAM	1	24	2282	2286	2282			
5	HQAM	12	0	2189	2175	2187			
5	HQAM	12	7	2173	2175	2141			22.7
5	HQAM	12	13	2188	2170	2122			
5	HQAM	26	0	2189	2174	2145			
5	SSBQAM	1	0	1933	1949	1944			
5	SSBQAM	1	12	1940	1941	1941			20.7
5	SSBQAM	1	24	1945	1945	1934			
5	SSBQAM	12	0	1935	1932	1943			
5	SSBQAM	12	7	1937	1928	1930			20.7
5	SSBQAM	12	13	1933	1938	1938			
5	SSBQAM	26	0	1934	1937	1933			
Channel				2045	2052	2053			Turn-up time (min)
Frequency (MHz)				180.5	186.5	194.5			
3	QPSK	1	0	2380	2387	2385			
3	QPSK	1	8	2387	2394	2383			25.7
3	QPSK	8	0	2378	2383	2371			
3	QPSK	8	0	2289	2293	2287			
3	QPSK	8	4	2295	2301	2287			24.7
3	QPSK	8	0	2288	2293	2283			
3	QPSK	16	0	2250	2257	2286			
3	HQAM	1	0	2311	2317	2311			24.7
3	HQAM	1	8	2315	2320	2313			
3	HQAM	1	14	2311	2318	2303			
3	HQAM	8	0	2156	2200	2184			
3	HQAM	8	4	2198	2206	2196			23.7
3	HQAM	8	7	2156	2198	2187			
3	HQAM	16	0	2106	2201	2180			
3	HQAM	1	0	2103	2215	2190			23.7
3	HQAM	1	8	2313	2221	2171			
3	HQAM	1	14	2302	2209	2170			
3	HQAM	8	0	2190	2180	2078			
3	HQAM	8	4	2194	2103	2178			22.7
3	HQAM	8	7	2189	2098	2171			
3	HQAM	16	0	2192	2098	2172			
3	SSBQAM	1	0	1945	1945	1946			
3	SSBQAM	1	14	1938	1947	1929			20.7
3	SSBQAM	8	0	1938	1941	1939			
3	SSBQAM	8	4	1935	1939	1927			20.7
3	SSBQAM	8	7	1933	1933	1920			
3	SSBQAM	16	0	1938	1938	1931			
Channel				2047	2052	2063			Turn-up time (min)
Frequency (MHz)				184.7	191.5	194.5			
1.4	QPSK	1	0	2311	2319	2320			
1.4	QPSK	1	3	2380	2386	2376			25.7
1.4	QPSK	1	5	2370	2380	2371			
1.4	QPSK	3	0	2389	2380	2375			
1.4	QPSK	3	1	2383	2380	2380			
1.4	QPSK	3	3	2378	2381	2372			24.7
1.4	QPSK	6	0	2283	2291	2277			
1.4	HQAM	1	0	2305	2311	2307			
1.4	HQAM	1	5	2314	2321	2312			24.7
1.4	HQAM	1	5	2307	2312	2300			
1.4	HQAM	3	0	2289	2289	2282			
1.4	HQAM	3	1	2293	2290	2286			
1.4	HQAM	3	1	2283	2291	2278			
1.4	HQAM	6	0	2191	2199	2186			23.7
1.4	HQAM	1	0	2108	2204	2172			
1.4	HQAM	1	3	2210	2215	2178			
1.4	HQAM	1	6	2200	2204	2172			23.7
1.4	HQAM	3	0	2199	2197	2179			
1.4	HQAM	3	1	2194	2200	2173			
1.4	HQAM	3	1	2189	2183	2173			
1.4	HQAM	6	0	2078	2084	2074			22.7
1.4	SSBQAM	1	0	1940	1948	1947			
1.4	SSBQAM	1	3	1937	1941	1941			20.7
1.4	SSBQAM	1	5	1947	1947	1927			
1.4	SSBQAM	3	0	1931	1939	1938			
1.4	SSBQAM	3	0	1944	1938	1938			
1.4	SSBQAM	3	1	1927	1938	1923			
1.4	SSBQAM	6	0	1938	1938	1930			20.7



Band 7_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (min)	
Channel								
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	2275	2296	2314	23.3	
20	QPSK	1	49	2255	2281	2298		
20	QPSK	1	99	2277	2297	2291		
20	QPSK	60	0	2244	2287	2324	23.3	
20	QPSK	50	24	2258	2283	2285		
20	QPSK	50	50	2259	2287	2286		
20	QPSK	100	0	2258	2272	2288	23.3	
20	HQAM	1	0	2287	2272	2310		
20	HQAM	1	49	2254	2270	2291		
20	HQAM	1	99	2269	2291	2283	23.3	
20	HQAM	50	0	2245	2259	2285		
20	HQAM	50	24	2257	2286	2284		
20	HQAM	50	50	2258	2284	2289	23.3	
20	HQAM	100	0	2258	2270	2283		
20	HQAM	1	49	2254	2270	2293		
20	HQAM	1	99	2269	2282	2291	23.3	
20	HQAM	50	24	2283	2278	2282		
20	HQAM	50	50	2283	2285	2288		
20	HQAM	50	50	2286	2223	2220	22.7	
20	HQAM	100	0	2286	2213	2219		
20	HQAM	1	0	1978	1977	1989		
20	SSBQAM	1	49	1983	1971	1988	20.7	
20	SSBQAM	1	99	1989	1975	1972		
20	SSBQAM	50	0	1982	1980	1984		
20	SSBQAM	50	24	1986	1985	1984	20.7	
20	SSBQAM	50	50	1971	1987	1986		
20	SSBQAM	100	0	1979	1982	1980		
Channel								
Frequency (MHz)				2575.5	2605	2625.5	Time-up (min)	
15	QPSK	1	0	2268	2296	2280	23.3	
15	QPSK	1	49	2265	2281	2290		
15	QPSK	1	74	2271	2292	2274		
15	QPSK	30	0	2234	2283	2283	23.3	
15	QPSK	30	20	2253	2282	2284		
15	QPSK	30	39	2280	2278	2282		
15	QPSK	75	0	2252	2272	2284	23.3	
15	HQAM	1	0	2253	2269	2308		
15	HQAM	1	37	2249	2279	2288		
15	HQAM	1	74	2284	2284	2277	23.3	
15	HQAM	30	0	2238	2282	2283		
15	HQAM	30	20	2254	2287	2274		
15	HQAM	30	39	2285	2271	2286	23.3	
15	HQAM	75	0	2252	2261	2275		
15	HQAM	1	0	2249	2280	2289		
15	HQAM	1	74	2283	2272	2277	23.3	
15	HQAM	1	74	2282	2281	2282		
15	HQAM	30	0	2185	2214	2226		
15	HQAM	30	20	2194	2211	2225	22.7	
15	HQAM	30	39	2281	2219	2214		
15	HQAM	75	0	2184	2205	2213		
15	SSBQAM	1	0	1987	1974	1988	20.7	
15	SSBQAM	1	37	1972	1983	1985		
15	SSBQAM	30	0	1986	1980	1987		
15	SSBQAM	30	20	1987	1951	1987	20.7	
15	SSBQAM	30	39	1987	1958	1984		
15	SSBQAM	75	0	1974	1955	1957		
Channel								
Frequency (MHz)				2600	2100	2160	Time-up (min)	
10	QPSK	1	0	2272	2296	2278	23.3	
10	QPSK	1	25	2280	2278	2294		
10	QPSK	1	49	2271	2287	2281		
10	QPSK	25	0	2241	2283	2281	23.3	
10	QPSK	25	12	2252	2280	2277		
10	QPSK	25	25	2251	2278	2280		
10	QPSK	50	0	2249	2284	2279	23.3	
10	HQAM	1	0	2248	2286	2308		
10	HQAM	1	24	2249	2279	2291		
10	HQAM	1	49	2284	2287	2280	23.3	
10	HQAM	25	0	2240	2282	2281		
10	HQAM	25	12	2259	2288	2276		
10	HQAM	25	25	2252	2277	2288	23.3	
10	HQAM	50	0	2256	2285	2282		
10	HQAM	1	0	2258	2280	2282		
10	HQAM	1	25	2246	2280	2278	23.3	
10	HQAM	1	49	2280	2278	2286		
10	HQAM	25	0	2185	2287	2288		
10	HQAM	25	12	2280	2211	2199	22.7	
10	HQAM	25	25	2198	2216	2211		
10	HQAM	50	0	2197	2213	2212		
10	SSBQAM	1	0	1972	1980	1987	20.7	
10	SSBQAM	1	25	1971	1985	1981		
10	SSBQAM	1	49	1988	1988	1970		
10	SSBQAM	25	0	1988	1987	1987	20.7	
10	SSBQAM	25	12	1984	1950	1958		
10	SSBQAM	25	25	1984	1960	1986		
10	SSBQAM	50	0	1971	1981	1988	20.7	
Channel								
Frequency (MHz)				2675.5	2190	2165.5		Time-up (min)
5	QPSK	1	0	2268	2284	2290	23.3	
5	QPSK	1	12	2284	2277	2301		
5	QPSK	1	24	2289	2291	2273		
5	QPSK	15	0	2242	2280	2274	23.3	
5	QPSK	12	7	2251	2284	2284		
5	QPSK	12	15	2254	2273	2277		
5	QPSK	24	0	2255	2286	2282	23.3	
5	HQAM	1	0	2247	2284	2309		
5	HQAM	1	12	2248	2279	2286		
5	HQAM	1	24	2268	2288	2281	23.3	
5	HQAM	15	0	2245	2284	2283		
5	HQAM	12	13	2252	2283	2282		
5	HQAM	25	0	2251	2284	2283	23.3	
5	HQAM	1	0	2247	2286	2282		
5	HQAM	1	12	2282	2273	2281		
5	HQAM	11	24	2282	2273	2282	22.7	
5	HQAM	12	0	2189	2205	2206		
5	HQAM	12	7	2195	2208	2198		
5	HQAM	12	15	2188	2210	2210	22.7	
5	HQAM	25	0	2198	2207	2210		
5	SSBQAM	1	0	1988	1988	1986		
5	SSBQAM	1	12	1970	1988	1988	20.7	
5	SSBQAM	1	24	1982	1971	1986		
5	SSBQAM	12	0	1958	1951	1958		
5	SSBQAM	12	13	1986	1980	1980	20.7	
5	SSBQAM	12	15	1983	1957	1955		
5	SSBQAM	25	0	1971	1987	1984		



Band 12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)
Channel							
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	2464	2463	2459	25.7
10	QPSK	1	49	2459	2460	2463	
10	QPSK	5	0	2372	2374	2371	24.7
10	QPSK	5	12	2378	2373	2372	
10	QPSK	25	0	2377	2379	2380	24.7
10	QPSK	25	49	2378	2371	2373	
10	HQAM	1	0	2386	2385	2387	24.7
10	HQAM	1	25	2387	2389	2401	
10	HQAM	5	0	2408	2401	2404	23.7
10	HQAM	5	12	2376	2373	2374	
10	HQAM	25	0	2272	2280	2277	23.7
10	HQAM	25	49	2275	2272	2274	
10	HQAM	50	0	2281	2280	2283	23.7
10	HQAM	50	25	2288	2282	2286	
10	HQAM	1	49	2298	2291	2294	22.7
10	HQAM	25	0	2178	2174	2176	
10	HQAM	25	12	2184	2177	2178	22.7
10	HQAM	25	25	2179	2181	2180	
10	HQAM	50	0	2182	2177	2177	20.7
10	HQAM	50	0	1942	1954	1955	
10	SSBQAM	1	25	1958	1957	1958	20.7
10	SSBQAM	1	49	1952	1958	1954	
10	SSBQAM	25	0	1952	1954	1955	20.7
10	SSBQAM	25	12	1956	1948	1945	
10	SSBQAM	25	25	1942	1947	1955	20.7
10	SSBQAM	50	0	1953	1951	1951	
Channel							
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	2465	2466	2480	25.7
5	QPSK	1	49	2465	2460	2460	
5	QPSK	1	24	2484	2465	2464	24.7
5	QPSK	12	0	2375	2373	2373	
5	QPSK	12	49	2378	2380	2370	24.7
5	QPSK	12	12	2370	2374	2372	
5	QPSK	25	0	2373	2371	2371	24.7
5	HQAM	1	0	2398	2399	2397	
5	HQAM	1	12	2401	2401	2399	23.7
5	HQAM	1	24	2402	2401	2397	
5	HQAM	12	0	2283	2278	2278	23.7
5	HQAM	12	7	2278	2280	2274	
5	HQAM	12	49	2275	2275	2275	23.7
5	HQAM	25	0	2278	2271	2270	
5	HQAM	1	0	2298	2295	2288	23.7
5	HQAM	1	49	2292	2293	2294	
5	HQAM	1	24	2296	2298	2292	22.7
5	HQAM	12	0	2188	2182	2182	
5	HQAM	12	7	2183	2183	2178	22.7
5	HQAM	12	12	2178	2180	2177	
5	HQAM	25	0	2178	2174	2174	20.7
5	SSBQAM	1	0	1938	1948	1948	
5	SSBQAM	1	12	1939	1949	1952	20.7
5	SSBQAM	1	24	1942	1942	1942	
5	SSBQAM	12	7	1951	1948	1942	20.7
5	SSBQAM	12	49	1938	1937	1954	
5	SSBQAM	25	0	1953	1949	1948	
Channel							
Frequency (MHz)				700.5	706.5	710.5	
3	QPSK	1	0	2392	2388	2386	25.7
3	QPSK	1	8	2392	2395	2393	
3	QPSK	1	16	2395	2390	2394	24.7
3	QPSK	8	0	2299	2297	2294	
3	QPSK	8	4	2298	2300	2297	24.7
3	QPSK	8	4	2294	2297	2292	
3	QPSK	16	0	2298	2292	2292	24.7
3	HQAM	1	0	2308	2319	2322	
3	HQAM	1	8	2311	2311	2329	23.7
3	HQAM	1	16	2318	2322	2319	
3	HQAM	8	4	2298	2301	2300	23.7
3	HQAM	8	4	2295	2298	2294	
3	HQAM	8	7	2290	2298	2198	23.7
3	HQAM	16	0	2291	2295	2304	
3	HQAM	1	0	2221	2214	2214	22.7
3	HQAM	1	8	2224	2223	2220	
3	HQAM	1	16	2215	2218	2212	22.7
3	HQAM	8	0	2183	2183	2086	
3	HQAM	8	4	2188	2187	2184	22.7
3	HQAM	8	7	2099	2102	2099	
3	HQAM	16	0	2100	2095	2093	20.7
3	SSBQAM	1	0	1952	1952	1943	
3	SSBQAM	1	8	1958	1950	1948	20.7
3	SSBQAM	1	16	1960	1967	1958	
3	SSBQAM	8	0	1948	1944	1945	20.7
3	SSBQAM	8	4	1953	1948	1939	
3	SSBQAM	8	7	1945	1937	1953	20.7
3	SSBQAM	16	0	1951	1944	1945	
Channel							
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	2378	2374	2373	25.7
1.4	QPSK	1	3	2378	2380	2380	
1.4	QPSK	1	5	2372	2373	2371	24.7
1.4	QPSK	3	0	2380	2378	2377	
1.4	QPSK	3	1	2384	2378	2379	24.7
1.4	QPSK	3	3	2374	2378	2374	
1.4	QPSK	6	0	2283	2284	2281	23.7
1.4	HQAM	1	0	2308	2307	2309	
1.4	HQAM	1	5	2312	2314	2310	23.7
1.4	HQAM	1	5	2308	2305	2303	
1.4	HQAM	3	0	2289	2284	2288	23.7
1.4	HQAM	3	1	2284	2286	2280	
1.4	HQAM	3	1	2284	2283	2282	23.7
1.4	HQAM	6	0	2188	2190	2186	
1.4	HQAM	1	0	2201	2198	2199	23.7
1.4	HQAM	1	3	2206	2209	2203	
1.4	HQAM	1	6	2203	2202	2197	23.7
1.4	HQAM	3	0	2198	2194	2198	
1.4	HQAM	3	1	2202	2197	2200	22.7
1.4	HQAM	3	1	2194	2195	2195	
1.4	SSBQAM	1	0	1938	1948	1942	20.7
1.4	SSBQAM	1	3	1957	1954	1956	
1.4	SSBQAM	1	5	1958	1957	1958	20.7
1.4	SSBQAM	3	0	1942	1945	1951	
1.4	SSBQAM	3	1	1958	1941	1938	20.7
1.4	SSBQAM	3	1	1939	1944	1952	
1.4	SSBQAM	6	0	1947	1948	1950	20.7



Band 13_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.98	782		
10	QPSK	1	25	24.02			25.2
10	QPSK	1	49	24.10			
10	QPSK	25	0	23.16			
10	QPSK	25	12	23.17			24.2
10	QPSK	25	25	23.19			
10	QPSK	50	0	23.18			
10	HQAM	1	0	23.38			
10	HQAM	1	25	23.37			24.2
10	HQAM	1	49	23.40			
10	HQAM	25	0	22.17			
10	HQAM	25	12	22.20			23.2
10	HQAM	25	25	22.22			
10	HQAM	50	0	22.19			
10	HQAM	1	0	22.21			
10	HQAM	1	25	22.32			23.2
10	HQAM	1	49	22.34			
10	HQAM	25	0	21.17			
10	HQAM	25	12	21.24			22.2
10	HQAM	25	25	21.23			
10	HQAM	50	0	21.23			
10	256QAM	1	0	18.81			
10	256QAM	1	25	18.97			20.2
10	256QAM	1	49	18.91			
10	256QAM	25	0	18.78			
10	256QAM	25	12	18.86			20.2
10	256QAM	25	25	18.89			
10	256QAM	50	0	18.84			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.93	782	784.5	
5	QPSK	1	24	24.04	24.07	23.77	25.2
5	QPSK	1	24	24.07	24.08	23.83	
5	QPSK	12	0	23.10	23.13	22.85	
5	QPSK	12	6	23.18	23.15	22.93	24.2
5	QPSK	12	12	23.19	23.21	22.89	
5	QPSK	25	0	23.18	23.14	22.90	
5	HQAM	1	0	23.31	23.29	23.01	
5	HQAM	1	12	23.29	23.33	23.04	24.2
5	HQAM	1	24	23.37	23.38	23.04	
5	HQAM	12	0	22.20	22.17	21.92	
5	HQAM	12	6	22.20	22.17	21.95	23.2
5	HQAM	12	12	22.21	22.22	21.94	
5	HQAM	25	0	22.23	22.16	21.92	
5	HQAM	1	0	22.19	22.28	21.94	
5	HQAM	1	24	22.25	22.20	22.01	23.2
5	HQAM	1	24	22.29	22.32	22.02	
5	HQAM	12	0	21.22	21.23	20.96	
5	HQAM	12	6	21.28	21.21	20.98	22.2
5	HQAM	12	12	21.25	21.26	20.95	
5	HQAM	25	0	21.36	21.17	20.96	
5	256QAM	1	0	18.55	18.57	18.59	
5	256QAM	1	12	18.93	18.96	18.94	20.2
5	256QAM	1	24	18.96	18.99	18.96	
5	256QAM	12	0	18.77	18.69	18.74	
5	256QAM	12	6	18.83	18.78	18.79	20.2
5	256QAM	12	12	18.82	18.84	18.79	
5	256QAM	25	0	18.77	18.77	18.74	



Band 14_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	2459	2459	
10	QPSK	1	25	2453	2453	
10	QPSK	1	49	2448	2448	25.7
10	QPSK	25	0	2355	2355	
10	QPSK	25	12	2357	2357	
10	QPSK	25	25	2353	2353	24.7
10	QPSK	50	0	2355	2355	
10	HQAM	1	0	2395	2395	
10	HQAM	1	25	2391	2391	24.7
10	HQAM	1	49	2386	2386	
10	HQAM	25	0	2254	2254	
10	HQAM	25	12	2257	2257	
10	HQAM	25	25	2254	2254	23.7
10	HQAM	50	0	2255	2255	
10	HQAM	1	0	2279	2279	
10	HQAM	1	25	2284	2284	23.7
10	HQAM	1	49	2279	2279	
10	HQAM	25	0	2158	2158	
10	HQAM	25	12	2161	2161	
10	HQAM	25	25	2158	2158	22.7
10	HQAM	50	0	2159	2159	
10	256QAM	1	0	1953	1953	
10	256QAM	1	25	1957	1957	20.7
10	256QAM	1	49	1955	1955	
10	256QAM	25	0	1929	1929	
10	256QAM	25	12	1934	1934	
10	256QAM	25	25	1933	1933	20.7
10	256QAM	50	0	1925	1925	
Channel						
Frequency (MHz)						
5	QPSK	1	0	2448	2448	24.45
5	QPSK	1	24	2456	2453	24.50
5	QPSK	1	24	2455	2455	24.48
5	QPSK	12	0	2352	2354	23.51
5	QPSK	12	12	2358	2358	23.50
5	QPSK	12	12	2361	2360	23.56
5	QPSK	25	0	2359	2354	23.52
5	HQAM	1	0	2352	2352	23.79
5	HQAM	1	12	2350	2352	23.86
5	HQAM	1	24	2358	2358	23.79
5	HQAM	12	0	2284	2281	22.53
5	HQAM	12	7	2288	2289	22.88
5	HQAM	12	13	2285	2283	22.56
5	HQAM	25	0	2252	2256	22.58
5	HQAM	1	0	2281	2277	22.77
5	HQAM	1	24	2283	2285	22.84
5	HQAM	1	24	2282	2282	22.88
5	HQAM	12	0	2171	2160	21.58
5	HQAM	12	7	2169	2170	21.68
5	HQAM	12	13	2163	2166	21.61
5	HQAM	25	0	2165	2161	21.54
5	256QAM	1	0	1947	1949	19.53
5	256QAM	1	12	1931	1933	19.28
5	256QAM	1	24	1946	1946	19.42
5	256QAM	12	0	1919	1927	19.27
5	256QAM	12	7	1928	1928	19.34
5	256QAM	12	13	1933	1935	19.32
5	256QAM	25	0	1921	1919	19.15



Band 17_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)
Channel				700	710	711	
Frequency (MHz)							
10	QPSK	1	0	2458	2458	2458	25.7
10	QPSK	1	25	2458	2464	2460	
10	QPSK	1	49	2462	2466	2462	
10	QPSK	25	0	2384	2386	2386	24.7
10	QPSK	25	12	2378	2373	2371	
10	QPSK	25	25	2380	2379	2380	
10	HQAM	1	0	2390	2390	2390	24.7
10	HQAM	1	25	2401	2401	2400	
10	HQAM	25	0	2401	2402	2402	
10	HQAM	25	0	2265	2264	2264	23.7
10	HQAM	25	12	2278	2271	2271	
10	HQAM	25	25	2277	2281	2276	
10	HQAM	50	0	2269	2270	2267	23.7
10	HQAM	1	25	2252	2257	2250	
10	HQAM	1	49	2252	2258	2263	
10	HQAM	25	0	2167	2167	2167	22.7
10	HQAM	25	12	2184	2178	2178	
10	HQAM	25	25	2180	2182	2182	
10	HQAM	50	0	2170	2171	2171	20.7
10	256QAM	1	0	1944	1937	1933	
10	256QAM	1	25	1950	1948	1951	
10	256QAM	25	0	1946	1944	1946	20.7
10	256QAM	25	12	1958	1952	1943	
10	256QAM	25	25	1958	1954	1952	
10	256QAM	50	0	1948	1948	1948	
Channel				700.5	710	711.5	
Frequency (MHz)							
5	QPSK	1	0	2457	2456	2455	25.7
5	QPSK	1	12	2460	2461	2463	
5	QPSK	1	24	2464	2461	2464	
5	QPSK	12	0	2387	2389	2386	24.7
5	QPSK	12	12	2378	2374	2369	
5	QPSK	12	13	2377	2376	2373	
5	HQAM	1	0	2376	2376	2366	24.7
5	HQAM	1	12	2391	2383	2391	
5	HQAM	1	24	2408	2404	2401	
5	HQAM	12	0	2270	2272	2272	23.7
5	HQAM	12	7	2278	2274	2273	
5	HQAM	12	13	2278	2277	2274	
5	HQAM	25	0	2274	2275	2269	23.7
5	HQAM	1	0	2269	2267	2268	
5	HQAM	1	12	2260	2266	2270	
5	HQAM	1	24	2264	2260	2263	22.7
5	HQAM	12	0	2173	2177	2178	
5	HQAM	12	7	2181	2179	2173	
5	HQAM	12	13	2179	2185	2175	20.7
5	HQAM	25	0	2179	2174	2170	
5	256QAM	1	0	1941	1929	1924	
5	256QAM	1	12	1949	1946	1944	20.7
5	256QAM	1	24	1944	1950	1950	
5	256QAM	12	7	1958	1947	1940	
5	256QAM	12	13	1953	1954	1952	20.7
5	256QAM	25	0	1937	1941	1945	





Band 26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up time (min)		
Channel									
Frequency (MHz)									
831.6 831.5 831.5									
15	QPSK	1	0	2458	2449	2440	25.7		
15	QPSK	39	0	2449	2448	2448			
15	QPSK	1	74	2449	2448	2438	25.7		
15	QPSK	39	0	2384	2385	2381			
15	QPSK	39	20	2389	2387	2357	24.7		
15	QPSK	39	39	2354	2363	2359			
15	QPSK	75	0	2377	2368	2358	24.7		
15	HQAM	1	0	2388	2377	2380			
15	HQAM	1	37	2379	2378	2378	24.7		
15	HQAM	74	0	2377	2371	2366			
15	HQAM	39	0	2263	2252	2259	23.7		
15	HQAM	39	20	2265	2265	2255			
15	HQAM	39	39	2265	2262	2256	23.7		
15	HQAM	75	0	2258	2255	2281			
15	HQAM	1	0	2175	2187	2183	23.7		
15	HQAM	1	37	2271	2274	2258			
15	HQAM	1	74	2272	2268	2293	22.7		
15	HQAM	39	0	2184	2184	2184			
15	HQAM	39	20	2188	2188	2181	22.7		
15	HQAM	39	39	2187	2184	2183			
15	HQAM	75	0	2170	2187	2159	20.7		
15	256QAM	1	0	1949	1943	1944			
15	256QAM	1	37	1845	1837	1846	20.7		
15	256QAM	74	0	1937	1936	1936			
15	256QAM	39	0	1939	1940	1938	20.7		
15	256QAM	39	20	1941	1940	1938			
15	256QAM	39	39	1931	1932	1931	20.7		
15	256QAM	75	0	1941	1943	1934			
Channel									
Frequency (MHz)									
831.5 831.5 831.5									
10	QPSK	1	0	2454	2452	2449	25.7		
10	QPSK	1	26	2453	2452	2449			
10	QPSK	1	49	2453	2454	2442	24.7		
10	QPSK	26	0	2368	2357	2357			
10	QPSK	26	0	2368	2359	2358	24.7		
10	QPSK	26	26	2383	2389	2387			
10	QPSK	50	0	2365	2366	2354	24.7		
10	HQAM	1	0	2369	2387	2388			
10	HQAM	1	26	2369	2390	2388	23.7		
10	HQAM	1	49	2369	2384	2375			
10	HQAM	25	0	2270	2259	2256	23.7		
10	HQAM	25	10	2269	2259	2254			
10	HQAM	25	26	2269	2262	2256	23.7		
10	HQAM	50	0	2265	2264	2258			
10	HQAM	1	0	2292	2278	2274	23.7		
10	HQAM	1	26	2280	2280	2278			
10	HQAM	1	49	2281	2280	2268	22.7		
10	HQAM	25	0	2151	2160	2162			
10	HQAM	25	10	2170	2163	2162	22.7		
10	HQAM	25	26	2181	2181	2134			
10	HQAM	50	0	2153	2162	2155	20.7		
10	256QAM	1	0	1942	1942	1941			
10	256QAM	1	26	1943	1928	1943	20.7		
10	256QAM	1	49	1943	1943	1938			
10	256QAM	25	0	1932	1934	1937	20.7		
10	256QAM	25	10	1938	1942	1938			
10	256QAM	25	26	1938	1935	1934	20.7		
10	256QAM	50	0	1933	1933	1930			
Channel									
Frequency (MHz)									
2671.5 2666.5 2701.5									
5	QPSK	1	0	2450	2450	2455	24.7		
5	QPSK	1	10	2453	2455	2454			
5	QPSK	1	24	2455	2456	2442	24.7		
5	QPSK	12	0	2372	2381	2381			
5	QPSK	12	7	2369	2354	2358	24.7		
5	QPSK	12	14	2364	2360	2351			
5	QPSK	26	0	2368	2362	2357	24.7		
5	HQAM	1	0	2401	2391	2389			
5	HQAM	1	10	2398	2396	2378	23.7		
5	HQAM	1	24	2396	2393	2374			
5	HQAM	12	1	2278	2263	2264	23.7		
5	HQAM	12	7	2273	2268	2259			
5	HQAM	12	13	2265	2261	2252	23.7		
5	HQAM	26	0	2265	2262	2254			
5	HQAM	1	0	2258	2284	2281	23.7		
5	HQAM	1	10	2272	2284	2284			
5	HQAM	1	24	2269	2286	2211	22.7		
5	HQAM	12	0	2155	2187	2158			
5	HQAM	12	7	2162	2171	2121	22.7		
5	HQAM	12	13	2168	2164	2034			
5	HQAM	26	0	2152	2188	2122	20.7		
5	256QAM	1	0	1943	1943	1938			
5	256QAM	1	10	1942	1938	1944	20.7		
5	256QAM	1	24	1948	1948	1927			
5	256QAM	12	0	1931	1930	1932	20.7		
5	256QAM	12	7	1940	1940	1931			
5	256QAM	12	13	1928	1928	1930	20.7		
5	256QAM	26	0	1941	1933	1928			
Channel									
Frequency (MHz)									
814.7 831.5 846.3									
1.4	QPSK	1	0	2447	2443	2446	25.7		
1.4	QPSK	1	0	2451	2448	2445			
1.4	QPSK	1	0	2449	2450	2432	25.7		
1.4	QPSK	3	0	2446	2448	2447			
1.4	QPSK	3	0	2448	2450	2453	24.7		
1.4	QPSK	3	3	2446	2448	2432			
1.4	QPSK	6	0	2372	2358	2356	24.7		
1.4	HQAM	1	0	2365	2364	2348			
1.4	HQAM	1	3	2360	2359	2341	24.7		
1.4	HQAM	3	0	2364	2360	2354			
1.4	HQAM	3	0	2354	2355	2330	23.7		
1.4	HQAM	3	1	2387	2388	2377			
1.4	HQAM	3	0	2377	2350	2360	23.7		
1.4	HQAM	6	0	2277	2281	2280			
1.4	HQAM	1	0	2286	2284	2259	23.7		
1.4	HQAM	3	0	2265	2261	2243			
1.4	HQAM	1	0	2269	2259	2254	23.7		
1.4	HQAM	3	0	2261	2275	2270			
1.4	HQAM	6	0	2262	2260	2224	23.7		
1.4	HQAM	3	3	2260	2286	2269			
1.4	HQAM	6	0	2147	2167	2156	20.7		
1.4	256QAM	1	0	1944	1937	1936			
1.4	256QAM	1	3	1938	1934	1942	20.7		
1.4	256QAM	3	0	1935	1940	1938			
1.4	256QAM	3	0	1936	1937	1931	20.7		
1.4	256QAM	3	1	1939	1938	1934			
1.4	256QAM	3	0	1931	1927	1928	20.7		
1.4	256QAM	6	0	1933	1933	1936			





Band 30_Ant 2						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	2315		
10	QPSK	1	25	2309		
10	QPSK	1	49	2302		
10	QPSK	25	0	2208		
10	QPSK	25	12	2216		
10	QPSK	25	25	2218		
10	QPSK	50	0	2214		
10	HQAM	1	0	2244		
10	HQAM	1	25	2248		
10	HQAM	1	49	2241		
10	HQAM	25	0	2108		
10	HQAM	25	12	2114		
10	HQAM	25	25	2117		
10	HQAM	50	0	2114		
10	HQAM	1	0	2109		
10	HQAM	1	25	2109		
10	HQAM	1	49	2127		
10	HQAM	25	0	2012		
10	HQAM	25	12	2020		
10	HQAM	25	25	2020		
10	HQAM	50	0	2018		
10	256QAM	1	0	1880		
10	256QAM	1	25	1894		
10	256QAM	1	49	1891		
10	256QAM	25	0	1878		
10	256QAM	25	12	1873		
10	256QAM	25	25	1875		
10	256QAM	50	0	1877		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2307.5	2310	2312.5
5	QPSK	1	0	2297	2301	2305
5	QPSK	1	12	2314	2314	2312
5	QPSK	1	24	2313	2313	2308
5	QPSK	12	0	2210	2212	2218
5	QPSK	12	12	2223	2217	2221
5	QPSK	12	12	2222	2217	2219
5	QPSK	25	0	2218	2214	2219
5	HQAM	1	0	2232	2234	2239
5	HQAM	1	12	2242	2240	2238
5	HQAM	1	24	2244	2240	2238
5	HQAM	12	0	2115	2114	2119
5	HQAM	12	7	2124	2120	2122
5	HQAM	12	13	2125	2118	2122
5	HQAM	25	0	2121	2118	2120
5	HQAM	1	0	2128	2132	2134
5	HQAM	1	12	2132	2138	2133
5	HQAM	1	24	2138	2138	2131
5	HQAM	12	0	2017	2021	2020
5	HQAM	12	7	2020	2023	2028
5	HQAM	12	13	2030	2025	2024
5	HQAM	25	0	2025	2017	2020
5	256QAM	1	0	1875	1879	1877
5	256QAM	1	12	1887	1890	1885
5	256QAM	1	24	1896	1890	1887
5	256QAM	12	7	1883	1872	1884
5	256QAM	12	13	1885	1875	1871
5	256QAM	25	0	1875	1872	1870





Band 71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dB)		
Channel				693	693	693			
Frequency (MHz)				693	693	693			
20	QPSK	1	0	2466	2467	2462	25.7		
20	QPSK	1	49	2458	2453	2451			
20	QPSK	1	99	2451	2453	2450			
20	QPSK	60	0	2366	2366	2358	24.7		
20	QPSK	50	24	2371	2361	2361			
20	QPSK	50	50	2370	2364	2363			
20	HQAM	1	0	2392	2392	2382	24.7		
20	HQAM	1	49	2392	2389	2385			
20	HQAM	1	99	2389	2386	2385			
20	HQAM	50	0	2270	2268	2257	23.7		
20	HQAM	50	24	2273	2265	2261			
20	HQAM	50	50	2270	2268	2264			
20	HQAM	100	0	2270	2262	2259	23.7		
20	HQAM	1	49	2264	2265	2274			
20	HQAM	1	99	2261	2259	2271			
20	HQAM	1	99	2278	2277	2278	22.7		
20	HQAM	50	0	2128	2127	2161			
20	HQAM	50	24	2123	2165	2165			
20	HQAM	50	50	2171	2166	2165	20.7		
20	HQAM	100	0	2174	2162	2162			
20	HQAM	1	0	1958	1950	1937			
20	HQAM	1	49	1941	1936	1939	20.7		
20	HQAM	1	99	1945	1935	1935			
20	HQAM	50	0	1941	1947	1944			
20	HQAM	50	24	1945	1944	1938	20.7		
20	HQAM	50	50	1940	1938	1939			
20	HQAM	100	0	1943	1943	1932			
Channel				693	693	693			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	2464	2457	2453	25.7		
15	QPSK	1	49	2456	2453	2452			
15	QPSK	1	74	2453	2458	2453			
15	QPSK	30	0	2388	2364	2360	24.7		
15	QPSK	30	20	2371	2368	2369			
15	QPSK	30	39	2384	2383	2381			
15	QPSK	75	0	2372	2369	2366	24.7		
15	HQAM	1	0	2401	2393	2394			
15	HQAM	1	39	2384	2390	2388			
15	HQAM	1	74	2382	2382	2384	23.7		
15	HQAM	30	0	2288	2284	2282			
15	HQAM	30	20	2271	2269	2288			
15	HQAM	30	39	2284	2282	2283	23.7		
15	HQAM	75	0	2273	2269	2267			
15	HQAM	1	0	2247	2279	2278			
15	HQAM	1	74	2263	2278	2278	22.7		
15	HQAM	1	74	2275	2283	2277			
15	HQAM	30	0	2148	2160	2163			
15	HQAM	30	20	2152	2171	2171	22.7		
15	HQAM	30	39	2168	2185	2185			
15	HQAM	75	0	2170	2170	2188			
15	HQAM	1	0	1949	1952	1937	20.7		
15	HQAM	1	39	1933	1928	1932			
15	HQAM	1	74	1946	1946	1936			
15	HQAM	30	0	1935	1941	1937	20.7		
15	HQAM	30	20	1932	1943	1930			
15	HQAM	30	39	1938	1938	1935			
15	HQAM	75	0	1938	1938	1931			
Channel				13112	13272	13442			
Frequency (MHz)				693	693	693			
10	QPSK	1	0	2452	2457	2449	25.7		
10	QPSK	1	25	2455	2445	2450			
10	QPSK	1	49	2452	2451	2445			
10	QPSK	25	0	2372	2358	2353	24.7		
10	QPSK	25	12	2371	2358	2359			
10	QPSK	25	25	2366	2352	2361			
10	QPSK	50	0	2371	2365	2356	24.7		
10	HQAM	1	0	2455	2451	2484			
10	HQAM	1	25	2452	2386	2389			
10	HQAM	1	49	2388	2390	2383	23.7		
10	HQAM	25	0	2272	2266	2264			
10	HQAM	25	12	2271	2257	2254			
10	HQAM	25	25	2264	2260	2281	23.7		
10	HQAM	50	0	2271	2263	2254			
10	HQAM	1	0	2254	2278	2273			
10	HQAM	1	25	2258	2270	2280	22.7		
10	HQAM	1	49	2266	2281	2271			
10	HQAM	25	0	2132	2159	2165			
10	HQAM	25	12	2133	2160	2162	22.7		
10	HQAM	25	25	2128	2165	2164			
10	HQAM	50	0	2141	2168	2157			
10	HQAM	1	0	1955	1957	1936	20.7		
10	HQAM	1	25	1938	1928	1934			
10	HQAM	1	49	1937	1945	1955			
10	HQAM	25	0	1934	1942	1937	20.7		
10	HQAM	25	12	1932	1935	1932			
10	HQAM	25	25	1940	1928	1928			
10	HQAM	50	0	1938	1933	1922			
Channel				13147	13247	13347			
Frequency (MHz)				692.5	672.5	672.5			
5	QPSK	1	0	2453	2457	2455	25.7		
5	QPSK	1	12	2461	2454	2456			
5	QPSK	1	24	2458	2454	2447			
5	QPSK	10	0	2379	2353	2344	24.7		
5	QPSK	12	7	2373	2364	2370			
5	QPSK	12	13	2368	2360	2361			
5	QPSK	25	0	2370	2364	2359	24.7		
5	HQAM	1	0	2402	2392	2389			
5	HQAM	1	12	2355	2350	2368			
5	HQAM	1	24	2389	2388	2383	23.7		
5	HQAM	12	0	2282	2266	2288			
5	HQAM	12	13	2278	2268	2270			
5	HQAM	12	13	2289	2261	2261	23.7		
5	HQAM	25	0	2273	2265	2262			
5	HQAM	1	0	2223	2260	2279			
5	HQAM	1	12	2248	2285	2281	22.7		
5	HQAM	11	24	2247	2283	2278			
5	HQAM	10	0	2134	2170	2171			
5	HQAM	12	7	2149	2170	2173	22.7		
5	HQAM	15	13	2168	2164	2163			
5	HQAM	25	0	2131	2167	2162			
5	HQAM	1	0	1955	1952	1931	20.7		
5	HQAM	1	12	1937	1928	1936			
5	HQAM	1	24	1938	1947	1955			
5	HQAM	12	0	1935	1945	1934	20.7		
5	HQAM	12	13	1937	1938	1932			
5	HQAM	12	13	1936	1936	1920			
5	HQAM	25	0	1937	1935	1931			







Band 5_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)			
Channel										
Frequency (MHz)										
ISD										
10	QPSK	1	0	2347	2347	2348	25			
10	QPSK	1	25	2351	2356	2353				
10	QPSK	1	49	2358	2353	2345				
10	QPSK	25	0	2263	2266	2263	24			
10	QPSK	25	12	2272	2267	2262				
10	QPSK	25	25	2288	2276	2284				
10	QPSK	50	0	2272	2266	2259	24			
10	QPSK	1	0	2291	2292	2297				
10	HQAM	1	25	2292	2298	2292				
10	HQAM	1	49	2298	2293	2293	23			
10	HQAM	25	0	2159	2165	2158				
10	HQAM	25	12	2171	2167	2163				
10	HQAM	25	25	2168	2171	2162	23			
10	HQAM	50	0	2176	2184	2182				
10	HQAM	1	25	2174	2171	2181				
10	HQAM	1	25	2158	2150	2175	22			
10	HQAM	1	49	2167	2163	2177				
10	HQAM	25	0	2064	2065	2066				
10	HQAM	25	12	2077	2072	2067	20			
10	HQAM	25	25	2071	2074	2045				
10	HQAM	50	0	2073	2069	2069				
10	SSBQAM	1	0	1848	1853	1858	20			
10	SSBQAM	1	25	1853	1850	1851				
10	SSBQAM	1	49	1850	1853	1854				
10	SSBQAM	25	0	1847	1848	1845	20			
10	SSBQAM	25	12	1848	1842	1839				
10	SSBQAM	25	25	1838	1848	1848				
10	SSBQAM	50	0	1851	1849	1844	20			
Channel										
Frequency (MHz)										
ISD										
5	QPSK	1	0	2361	2362	2360	25			
5	QPSK	1	24	2366	2363	2362				
5	QPSK	1	24	2357	2359	2353				
5	QPSK	12	0	2263	2273	2265	24			
5	QPSK	12	12	2276	2274	2268				
5	QPSK	12	12	2285	2287	2287				
5	QPSK	25	0	2268	2272	2258	24			
5	HQAM	1	0	2294	2291	2293				
5	HQAM	1	12	2292	2299	2284				
5	HQAM	1	24	2294	2298	2290	23			
5	HQAM	12	0	2187	2175	2187				
5	HQAM	12	7	2171	2177	2181				
5	HQAM	12	13	2166	2169	2154	23			
5	HQAM	25	0	2172	2174	2160				
5	HQAM	1	0	2188	2195	2186				
5	HQAM	1	24	2183	2190	2178	23			
5	HQAM	1	24	2188	2191	2199				
5	HQAM	12	0	2074	2080	2055				
5	HQAM	12	7	2078	2081	2059	22			
5	HQAM	12	13	2071	2075	2028				
5	HQAM	25	0	2073	2076	2033				
5	SSBQAM	1	0	1838	1838	1838	20			
5	SSBQAM	1	12	1859	1840	1853				
5	SSBQAM	1	24	1848	1848	1848				
5	SSBQAM	12	0	1840	1844	1840	20			
5	SSBQAM	12	7	1844	1837	1836				
5	SSBQAM	12	13	1835	1836	1846				
5	SSBQAM	25	0	1843	1845	1838	20			
Channel										
Frequency (MHz)										
ISD										
3	QPSK	1	0	2339	2347	2351	25			
3	QPSK	1	6	2349	2353	2348				
3	QPSK	8	0	2351	2351	2345				
3	QPSK	8	0	2285	2288	2288	24			
3	QPSK	8	4	2288	2288	2284				
3	QPSK	8	6	2283	2285	2288				
3	QPSK	16	0	2262	2260	2250	24			
3	HQAM	1	0	2291	2292	2290				
3	HQAM	1	6	2287	2297	2286				
3	HQAM	1	14	2294	2290	2273	23			
3	HQAM	8	4	2166	2169	2167				
3	HQAM	8	4	2184	2162	2163				
3	HQAM	8	7	2161	2166	2157	23			
3	HQAM	16	0	2166	2164	2152				
3	HQAM	1	0	2185	2187	2174				
3	HQAM	1	6	2178	2183	2169	23			
3	HQAM	8	14	2181	2179	2166				
3	HQAM	8	0	2081	2080	2081				
3	HQAM	8	4	2078	2072	2089	22			
3	HQAM	8	7	2083	2072	2041				
3	HQAM	16	0	2085	2059	2059				
3	SSBQAM	1	0	1846	1847	1849	20			
3	SSBQAM	1	6	1843	1847	1851				
3	SSBQAM	1	14	1845	1863	1845				
3	SSBQAM	8	0	1836	1844	1836	20			
3	SSBQAM	8	4	1846	1837	1836				
3	SSBQAM	8	7	1834	1842	1843				
3	SSBQAM	16	0	1848	1844	1835	20			
Channel										
Frequency (MHz)										
ISD										
1.4	QPSK	1	0	2345	2352	2343	25			
1.4	QPSK	1	3	2354	2358	2348				
1.4	QPSK	1	5	2347	2351	2339				
1.4	QPSK	3	0	2353	2352	2347	24			
1.4	QPSK	3	1	2357	2352	2350				
1.4	QPSK	3	3	2353	2357	2348				
1.4	QPSK	6	0	2268	2264	2251	24			
1.4	HQAM	1	0	2279	2284	2278				
1.4	HQAM	1	5	2286	2284	2277				
1.4	HQAM	1	5	2282	2288	2272	24			
1.4	HQAM	3	0	2283	2284	2284				
1.4	HQAM	3	1	2286	2275	2280				
1.4	HQAM	3	1	2281	2283	2249	23			
1.4	HQAM	6	0	2184	2171	2158				
1.4	HQAM	1	3	2174	2175	2139				
1.4	HQAM	1	3	2184	2181	2144	23			
1.4	HQAM	1	6	2178	2182	2139				
1.4	HQAM	3	0	2178	2174	2132				
1.4	HQAM	3	1	2178	2184	2144	22			
1.4	HQAM	6	0	2173	2175	2147				
1.4	HQAM	6	0	2059	2060	2030				
1.4	SSBQAM	1	0	1846	1860	1851	20			
1.4	SSBQAM	1	6	1846	1847	1851				
1.4	SSBQAM	1	6	1842	1853	1854				
1.4	SSBQAM	3	0	1845	1847	1841	20			
1.4	SSBQAM	3	1	1839	1832	1838				
1.4	SSBQAM	3	1	1834	1839	1841				
1.4	SSBQAM	6	0	1851	1840	1842	20			



Band 7_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)			
Channel				2560	2560	2560				
Frequency (MHz)				2560	2560	2560				
20	QPSK	1	0	23.87	23.84	23.99	25.5			
20	QPSK	1	49	23.93	23.99	23.94				
20	QPSK	1	99	23.99	24.06	24.02				
20	QPSK	60	0	22.07	22.02	22.02	24.5			
20	QPSK	50	24	23.10	23.09	23.08				
20	QPSK	50	50	23.11	23.16	23.13				
20	HQAM	1	0	21.27	21.30	21.29	24.5			
20	HQAM	1	49	21.29	21.38	21.36				
20	HQAM	1	99	21.33	21.40	21.34				
20	HQAM	50	0	21.08	21.04	21.02	23.5			
20	HQAM	50	24	22.10	22.10	22.06				
20	HQAM	50	50	22.13	22.17	22.14				
20	HQAM	100	0	22.08	22.07	22.03	23.5			
20	HQAM	1	49	22.04	22.11	22.05				
20	HQAM	1	99	22.10	22.26	22.21				
20	HQAM	1	99	22.24	22.32	22.27	22.5			
20	HQAM	50	0	21.08	21.08	21.05				
20	HQAM	50	24	21.12	21.11	21.08				
20	HQAM	50	50	21.15	21.21	21.15	20.5			
20	HQAM	100	0	21.12	21.05	21.07				
20	SSBQAM	1	0	19.20	19.27	19.13				
20	SSBQAM	1	49	19.20	19.16	19.22	20.5			
20	SSBQAM	1	99	19.12	19.17	19.11				
20	SSBQAM	50	0	19.12	19.12	19.07				
20	SSBQAM	50	24	19.22	19.14	19.19	20.5			
20	SSBQAM	50	50	19.17	19.16	19.13				
20	SSBQAM	100	0	19.23	19.11	19.05				
Channel				2575.5	2575.5	2575.5	Time-up (min)			
Frequency (MHz)				2575.5	2575.5	2575.5				
15	QPSK	1	0	23.83	23.84	23.95	25.5			
15	QPSK	1	49	23.86	23.90	23.85				
15	QPSK	1	74	23.97	24.04	23.94				
15	QPSK	30	0	22.95	22.98	23.00	24.5			
15	QPSK	30	20	23.08	23.04	23.04				
15	QPSK	30	39	23.08	23.13	23.09				
15	QPSK	75	0	23.02	23.01	23.01	24.5			
15	HQAM	1	0	21.23	21.30	21.29				
15	HQAM	1	39	21.24	21.36	21.30				
15	HQAM	1	74	21.31	21.34	21.34	23.5			
15	HQAM	30	0	21.88	22.04	22.01				
15	HQAM	30	20	22.10	22.02	21.97				
15	HQAM	30	39	22.10	22.09	22.14	23.5			
15	HQAM	75	0	21.98	22.05	21.94				
15	HQAM	1	0	22.07	22.08	22.06				
15	HQAM	1	74	22.14	22.25	22.17	22.5			
15	HQAM	30	0	20.95	20.98	21.02				
15	HQAM	30	20	21.03	21.02	21.06				
15	HQAM	30	39	21.12	21.21	21.05	20.5			
15	HQAM	75	0	21.99	21.05	21.00				
15	SSBQAM	1	0	19.17	19.25	19.13				
15	SSBQAM	1	39	19.16	19.12	19.19	20.5			
15	SSBQAM	30	0	19.14	19.05	19.04				
15	SSBQAM	30	20	19.14	19.05	19.05				
15	SSBQAM	30	39	19.16	19.14	19.06	20.5			
15	SSBQAM	75	0	19.23	19.04	19.07				
Channel				2090	2100	2100		Time-up (min)		
Frequency (MHz)				2090	2100	2100				
10	QPSK	1	0	23.89	23.92	23.99	25.5			
10	QPSK	1	25	23.93	23.99	23.84				
10	QPSK	1	49	23.96	24.01	23.96				
10	QPSK	25	0	22.91	22.99	22.97	24.5			
10	QPSK	25	12	23.07	23.06	23.00				
10	QPSK	25	25	23.01	23.09	23.03				
10	QPSK	50	0	22.99	23.06	23.01	24.5			
10	HQAM	1	0	21.17	21.24	21.26				
10	HQAM	1	25	21.27	21.34	21.35				
10	HQAM	1	49	21.31	21.39	21.31	23.5			
10	HQAM	25	0	21.02	21.00	21.01				
10	HQAM	25	12	22.07	22.08	22.06				
10	HQAM	25	25	22.08	22.10	22.07	23.5			
10	HQAM	50	0	22.02	22.04	22.03				
10	HQAM	1	0	22.00	22.13	22.10				
10	HQAM	1	25	22.06	22.16	22.18	22.5			
10	HQAM	1	49	22.14	22.31	22.25				
10	HQAM	25	0	20.91	21.02	20.96				
10	HQAM	25	12	21.04	21.04	21.02	22.5			
10	HQAM	25	25	21.08	21.14	21.09				
10	HQAM	50	0	21.19	21.05	21.02				
10	SSBQAM	1	0	19.15	19.19	19.19	20.5			
10	SSBQAM	1	25	19.20	19.07	19.22				
10	SSBQAM	1	49	19.19	19.09	19.03				
10	SSBQAM	25	0	19.03	19.05	19.06	20.5			
10	SSBQAM	25	12	19.21	19.07	19.09				
10	SSBQAM	25	25	19.16	19.08	19.08				
10	SSBQAM	50	0	19.18	19.04	19.09	20.5			
Channel				2077.5	2100	2102.5		Time-up (min)		
Frequency (MHz)				2077.5	2100	2102.5				
5	QPSK	1	0	23.84	23.83	23.90	25.5			
5	QPSK	1	12	23.93	23.93	23.88				
5	QPSK	1	24	23.89	24.02	23.95				
5	QPSK	15	0	22.96	22.93	22.99	24.5			
5	QPSK	12	7	23.09	23.02	22.96				
5	QPSK	12	15	23.11	23.14	23.13				
5	QPSK	25	0	23.04	22.98	23.01	24.5			
5	HQAM	1	0	21.17	21.23	21.19				
5	HQAM	1	12	21.25	21.33	21.30				
5	HQAM	1	24	21.32	21.34	21.34	23.5			
5	HQAM	15	0	21.04	21.08	21.06				
5	HQAM	15	15	22.10	22.15	22.14				
5	HQAM	25	0	22.00	22.07	21.95	23.5			
5	HQAM	1	0	22.01	22.10	22.09				
5	HQAM	1	12	22.10	22.21	22.15				
5	HQAM	11	24	22.19	22.31	22.19	22.5			
5	HQAM	15	0	20.91	20.99	20.99				
5	HQAM	12	7	21.07	21.02	21.03				
5	HQAM	15	15	21.08	21.17	21.08	20.5			
5	HQAM	25	0	21.04	21.02	21.07				
5	SSBQAM	1	0	19.11	19.25	19.11				
5	SSBQAM	1	12	19.25	19.06	19.15	20.5			
5	SSBQAM	1	24	19.08	19.10	19.03				
5	SSBQAM	12	0	19.08	19.06	19.06				
5	SSBQAM	15	0	19.22	19.13	19.00	20.5			
5	SSBQAM	12	15	19.12	19.07	19.13				
5	SSBQAM	22	0	19.22	19.07	19.02				



Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
10	QPSK	1	0	2448	2458	2459			
10	QPSK	1	26	2439	2442	2440			25.7
10	QPSK	1	49	2450	2443	2448			
10	QPSK	26	0	2353	2354	2353			
10	QPSK	26	12	2380	2353	2353			24.7
10	QPSK	26	25	2358	2359	2360			
10	QPSK	50	0	2381	2353	2353			
10	QPSK	1	0	2382	2376	2378			
10	HQAM	1	26	2381	2382	2380			24.7
10	HQAM	1	49	2387	2385	2378			
10	HQAM	26	0	2254	2255	2253			
10	HQAM	26	12	2261	2255	2254			23.7
10	HQAM	26	25	2259	2260	2257			
10	HQAM	50	0	2260	2255	2252			
10	HQAM	1	0	2254	2254	2262			
10	HQAM	1	26	2271	2276	2274			23.7
10	HQAM	1	49	2273	2254	2239			
10	HQAM	26	0	2127	2136	2136			
10	HQAM	26	12	2149	2155	2158			22.7
10	HQAM	26	25	2153	2160	2161			
10	HQAM	50	0	2141	2155	2159			
10	256QAM	1	0	1947	1986	1947			20.7
10	256QAM	1	26	1953	1973	1949			
10	256QAM	1	49	1964	1955	1937			
10	256QAM	26	0	1944	1946	1940			
10	256QAM	26	12	1945	1946	1946			20.7
10	256QAM	26	25	1939	1941	1943			
10	256QAM	50	0	1951	1943	1941			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
5	QPSK	1	0	2448	2447	2439			
5	QPSK	1	26	2448	2448	2440			25.7
5	QPSK	1	24	2447	2449	2446			
5	QPSK	12	0	2362	2354	2355			
5	QPSK	12	6	2355	2359	2359			24.7
5	QPSK	12	12	2355	2354	2351			
5	QPSK	26	0	2358	2352	2352			
5	HQAM	1	0	2383	2383	2373			
5	HQAM	1	12	2380	2379	2373			24.7
5	HQAM	1	24	2382	2380	2376			
5	HQAM	12	0	2266	2262	2259			
5	HQAM	12	6	2258	2264	2254			23.7
5	HQAM	12	12	2265	2259	2254			
5	HQAM	26	0	2259	2253	2253			
5	HQAM	1	0	2224	2237	2286			
5	HQAM	1	0	2248	2274	2299			23.7
5	HQAM	1	24	2223	2273	2249			
5	HQAM	12	0	2135	2164	2160			
5	HQAM	12	6	2145	2167	2161			22.7
5	HQAM	12	12	2135	2180	2142			
5	HQAM	26	0	2111	2157	2150			
5	256QAM	1	0	1938	1936	1945			
5	256QAM	1	12	1950	1984	1939			20.7
5	256QAM	1	24	1947	1947	1954			
5	256QAM	12	0	1943	1938	1932			
5	256QAM	12	6	1938	1932	1945			20.7
5	256QAM	12	12	1938	1938	1934			
5	256QAM	26	0	1947	1933	1933			
Channel									
Frequency (MHz)									
2306.7 2306.6 2319.3									
1.4	QPSK	1	0	2444	2433	2436			
1.4	QPSK	1	3	2444	2442	2438			25.7
1.4	QPSK	1	5	2437	2436	2429			
1.4	QPSK	3	0	2442	2438	2437			
1.4	QPSK	3	1	2449	2442	2440			
1.4	QPSK	3	2	2443	2443	2437			24.7
1.4	QPSK	6	0	2359	2347	2343			
1.4	HQAM	1	0	2376	2367	2371			
1.4	HQAM	1	3	2378	2366	2377			24.7
1.4	HQAM	1	5	2370	2369	2363			
1.4	HQAM	3	0	2353	2347	2347			
1.4	HQAM	3	1	2366	2351	2350			23.7
1.4	HQAM	3	2	2351	2350	2343			
1.4	HQAM	6	0	2257	2256	2249			
1.4	HQAM	6	0	2234	2261	2237			23.7
1.4	HQAM	1	3	2245	2272	2234			
1.4	HQAM	1	6	2247	2263	2220			
1.4	HQAM	3	0	2228	2256	2239			
1.4	HQAM	3	1	2228	2261	2237			
1.4	HQAM	6	0	2237	2261	2258			
1.4	HQAM	6	0	2123	2150	2123			22.7
1.4	256QAM	1	0	1938	1958	1939			
1.4	256QAM	1	3	1945	1971	1941			
1.4	256QAM	1	5	1951	1954	1953			20.7
1.4	256QAM	3	0	1943	1943	1936			
1.4	256QAM	3	1	1938	1942	1937			
1.4	256QAM	3	2	1939	1931	1938			
1.4	256QAM	6	0	1949	1937	1939			20.7





Band 13_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2153		
10	QPSK	1	25	2151		
10	QPSK	1	49	2157		
10	QPSK	25	0	2240		
10	QPSK	25	12	2241		
10	QPSK	25	25	2245		
10	QPSK	50	0	2251		
10	QPSK	50	0	2252		
10	HQAM	1	25	2286		
10	HQAM	1	49	2288		
10	HQAM	25	0	2151		
10	HQAM	25	12	2156		
10	HQAM	25	25	2160		
10	HQAM	50	0	2194		
10	HQAM	50	0	2195		
10	HQAM	1	25	2151		
10	HQAM	1	49	2178		
10	HQAM	25	0	2095		
10	HQAM	25	12	2089		
10	HQAM	25	25	2071		
10	HQAM	50	0	2068		
10	256QAM	1	0	1825		
10	256QAM	1	25	1830		
10	256QAM	25	0	1841		
10	256QAM	25	12	1846		
10	256QAM	25	25	1859		
10	256QAM	50	0	1844		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2345	2348	2322
5	QPSK	1	24	2350	2354	2334
5	QPSK	1	24	2355	2356	2331
5	QPSK	12	0	2258	2259	2232
5	QPSK	12	6	2262	2263	2240
5	QPSK	12	12	2265	2267	2238
5	QPSK	25	0	2285	2283	2237
5	HQAM	1	0	2284	2278	2250
5	HQAM	1	12	2275	2252	2249
5	HQAM	1	24	2284	2288	2251
5	HQAM	12	0	2182	2184	2136
5	HQAM	12	7	2188	2184	2143
5	HQAM	12	13	2184	2171	2142
5	HQAM	25	0	2170	2163	2141
5	HQAM	1	0	2173	2168	2142
5	HQAM	1	24	2168	2161	2148
5	HQAM	1	24	2177	2181	2148
5	HQAM	12	0	2086	2070	2043
5	HQAM	12	7	2072	2067	2045
5	HQAM	12	13	2071	2075	2043
5	HQAM	25	0	2073	2066	2042
5	256QAM	1	0	1816	1824	1822
5	256QAM	1	12	1843	1845	1847
5	256QAM	1	24	1865	1867	1866
5	256QAM	12	0	1837	1835	1838
5	256QAM	12	7	1848	1836	1840
5	256QAM	12	13	1838	1835	1834
5	256QAM	25	0	1837	1834	1841



Band 14_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	23.68	23.68	23.68
10	QPSK	1	49	23.68	23.68	23.68
10	QPSK	25	0	22.63	22.63	22.63
10	QPSK	25	12	22.65	22.65	22.65
10	QPSK	25	25	22.74	22.74	22.74
10	QPSK	50	0	22.97	22.97	22.97
10	HQAM	1	0	23.92	23.92	23.92
10	HQAM	1	25	22.99	22.99	22.99
10	HQAM	1	49	22.97	22.97	22.97
10	HQAM	25	0	21.85	21.85	21.85
10	HQAM	25	12	21.88	21.88	21.88
10	HQAM	25	25	21.73	21.73	21.73
10	HQAM	50	0	21.88	21.88	21.88
10	HQAM	1	0	21.90	21.90	21.90
10	HQAM	1	25	21.95	21.95	21.95
10	HQAM	1	49	21.99	21.99	21.99
10	HQAM	25	0	20.87	20.87	20.87
10	HQAM	25	12	20.89	20.89	20.89
10	HQAM	25	25	20.76	20.76	20.76
10	HQAM	50	0	20.87	20.87	20.87
10	256QAM	1	0	18.45	18.45	18.45
10	256QAM	1	25	18.58	18.58	18.58
10	256QAM	1	49	18.74	18.74	18.74
10	256QAM	25	0	18.50	18.50	18.50
10	256QAM	25	12	18.44	18.44	18.44
10	256QAM	25	25	18.47	18.47	18.47
10	256QAM	50	0	18.50	18.50	18.50
Channel						
Frequency (MHz)						
5	QPSK	1	0	23.68	23.68	23.68
5	QPSK	1	49	23.63	23.63	23.63
5	QPSK	1	24	23.65	23.64	23.58
5	QPSK	12	0	22.71	22.65	22.84
5	QPSK	12	12	22.76	22.73	22.70
5	QPSK	12	13	22.71	22.73	22.88
5	QPSK	25	0	22.89	22.86	22.83
5	HQAM	1	0	22.91	22.92	22.97
5	HQAM	1	12	23.09	23.02	22.98
5	HQAM	1	24	22.98	23.00	22.99
5	HQAM	12	0	21.73	21.68	21.64
5	HQAM	12	7	21.77	21.77	21.78
5	HQAM	12	13	21.73	21.72	21.86
5	HQAM	25	0	21.71	21.68	21.64
5	HQAM	1	0	21.87	21.89	21.85
5	HQAM	1	49	21.93	22.00	21.94
5	HQAM	1	24	21.90	21.95	21.92
5	HQAM	12	0	20.89	20.71	20.89
5	HQAM	12	7	20.78	20.83	20.75
5	HQAM	12	13	20.75	20.76	20.89
5	HQAM	25	0	20.72	20.87	20.89
5	256QAM	1	0	18.38	18.37	18.42
5	256QAM	1	12	18.55	18.48	18.55
5	256QAM	1	24	18.74	18.72	18.65
5	256QAM	12	7	18.38	18.34	18.35
5	256QAM	12	13	18.47	18.46	18.39
5	256QAM	25	0	18.40	18.47	18.44



Band 17_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)	
Channel				700	710	711		
Frequency (MHz)				2430	2490	2550		
10	QPSK	1	0	2436	2436	2436	25	
10	QPSK	1	25	2436	2437	2437		
10	QPSK	1	49	2437	2445	2438		
10	QPSK	25	0	2438	2438	2441	24	
10	QPSK	25	12	2438	2450	2448		
10	QPSK	25	25	2438	2457	2455		
10	QPSK	50	0	2447	2448	2445	24	
10	HQAM	1	0	2470	2488	2489		
10	HQAM	1	25	2470	2478	2474		
10	HQAM	1	49	2478	2480	2477	23	
10	HQAM	25	0	2441	2441	2441		
10	HQAM	25	12	2455	2448	2447		
10	HQAM	25	25	2457	2454	2451	23	
10	HQAM	50	0	2444	2448	2442		
10	HQAM	1	0	2455	2454	2450		
10	HQAM	1	25	2457	2459	2458	23	
10	HQAM	1	49	2453	2460	2448		
10	HQAM	25	0	2043	2043	2044		
10	HQAM	25	12	2049	2051	2051	22	
10	HQAM	25	25	2050	2058	2058		
10	HQAM	50	0	2049	2047	2045		
10	256QAM	1	0	1834	1839	1822	20	
10	256QAM	1	25	1843	1840	1841		
10	256QAM	1	49	1854	1847	1838		
10	256QAM	25	0	1831	1827	1830	20	
10	256QAM	25	12	1830	1846	1834		
10	256QAM	25	25	1840	1837	1839		
10	256QAM	50	0	1827	1840	1831	20	
Channel				2430	2490	2490		Time-up (ms)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	2433	2438	2427	25	
5	QPSK	1	25	2443	2442	2430		
5	QPSK	1	24	2443	2444	2440		
5	QPSK	12	0	2244	2248	2241	24	
5	QPSK	12	12	2251	2248	2243		
5	QPSK	12	13	2253	2252	2245		
5	QPSK	25	0	2249	2247	2242	24	
5	HQAM	1	0	2266	2267	2266		
5	HQAM	1	12	2274	2278	2270		
5	HQAM	1	24	2278	2278	2275	24	
5	HQAM	12	0	2148	2147	2146		
5	HQAM	12	7	2153	2152	2145		
5	HQAM	12	13	2154	2152	2147	23	
5	HQAM	25	0	2151	2148	2144		
5	HQAM	1	0	2167	2166	2163		
5	HQAM	1	25	2166	2170	2164	23	
5	HQAM	1	24	2179	2178	2167		
5	HQAM	12	0	2050	2049	2047		
5	HQAM	12	7	2057	2055	2051	22	
5	HQAM	12	13	2057	2058	2052		
5	HQAM	25	0	2051	2049	2044		
5	256QAM	1	0	1825	1831	1816	20	
5	256QAM	1	12	1840	1845	1842		
5	256QAM	1	24	1852	1839	1837		
5	256QAM	12	7	1828	1833	1830	20	
5	256QAM	12	13	1836	1837	1837		
5	256QAM	25	0	1820	1830	1831		



Band 25_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Mid Ch. Freq	Power High Ch. Freq	Time-up (ms)	Time-down (ms)	
Channel									
1885									
1905									
1925									
1945									
1965									
1985									
2005									
2025									
2045									
2065									
2085									
2105									
2125									
2145									
2165									
2185									
2205									
2225									
2245									
2265									
2285									
2305									
2325									
2345									
2365									
2385									
2405									
2425									
2445									
2465									
2485									
2505									
2525									
2545									
2565									
2585									
2605									
2625									
2645									
2665									
2685									
2705									
2725									
2745									
2765									
2785									
2805									
2825									
2845									
2865									
2885									
2905									
2925									
2945									
2965									
2985									
3005									
3025									
3045									
3065									
3085									
3105									
3125									
3145									
3165									
3185									
3205									
3225									
3245									
3265									
3285									
3305									
3325									
3345									
3365									
3385									
3405									
3425									
3445									
3465									
3485									
3505									
3525									
3545									
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3585									
3605									
3625									
3645									
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3725									
3745									
3765									
3785									
3805									
3825									
3845									
3865									
3885									
3905									
3925									
3945									
3965									
3985									
4005									
4025									
4045									
4065									
4085									
4105									
4125									
4145									
4165									
4185									
4205									
4225									
4245									
4265									
4285									
4305									
4325									
4345									
4365									
4385									
4405									
4425									
4445									
4465									
4485									
4505									
4525									
4545									
4565									
4585									
4605									
4625									
4645									
4665									
4685									
4705									
4725									
4745									
4765									
4785									
4805									
4825									
4845									
4865									
4885									
4905									
4925									
4945									
4965									
4985									
5005									
5025									
5045									
5065									
5085									
5105									
5125									
5145									
5165									
5185									
5205									
5225									
5245									
5265									
5285									
5305									
5325									
5345									
5365									
5385									
5405									
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5465									
5485									
5505									
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5585									
5605									
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5645									
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5705									
5725									
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5765									
5785									
5805									
5825									
5845									
5865									
5885									
5905									
5925									
5945									
5965									
5985									
6005									
6025									
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6085									
6105									
6125									
6145									
6165									
6185									
6205									
6225									
6245									
6265									
6285									
6305									
6325									
6345									
6365									
6385									
6405									
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6485									
6505									
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6605									
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6645									
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6705									
6725									
6745									
6765									
6785									
6805									
6825									
6845									
6865									
6885									
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6985									
7005									
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7085									
7105									
7125									
7145									
7165									
7185									
7205									
7225									
7245									
7265									
7285									
7305									
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7345									
7365									
7385									
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7605									
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7645									
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7745									
7765									
7785									
7805									
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7885									
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7945									
7965									
7985									
8005									
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8105									
8125									
8145									
8165									
8185									
8205									
8225									
8245									
8265									
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8305									
8325									
8345									
8365									
8385									
8405									
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8505									
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8585									
8605									
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8645									
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8705									
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9105									
9125									
9145									
9165									
9185									
9205									
9225									
9245									
9265									
9285									
9305									
9325									
9345									
9365									
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9645									
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9685									
9705									
9725									
9745									
9765									
9785									
9805									
9825									
9845									
9865									
9885									
9905									
9925									
9945									
9965									
9985									
10005									





Band 30_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.87			25.7
10	QPSK	1	25	23.88			
10	QPSK	1	49	23.85			
10	QPSK	25	0	22.90			24.7
10	QPSK	25	12	22.94			
10	QPSK	25	25	22.96			
10	16QAM	50	0	22.94			24.7
10	16QAM	1	0	23.21			
10	16QAM	1	25	23.25			
10	16QAM	1	49	23.23			23.7
10	16QAM	25	0	21.88			
10	16QAM	25	12	21.97			
10	16QAM	25	25	21.94			23.7
10	16QAM	50	0	21.93			
10	16QAM	1	0	22.90			
10	16QAM	1	25	22.17			22.7
10	16QAM	1	49	22.02			
10	16QAM	25	0	20.90			
10	16QAM	25	12	21.82			22.7
10	16QAM	25	25	20.95			
10	16QAM	50	0	20.88			
10	256QAM	1	0	19.20			20.7
10	256QAM	1	25	19.23			
10	256QAM	1	49	19.13			
10	256QAM	25	0	18.96			20.7
10	256QAM	25	12	19.06			
10	256QAM	25	25	19.03			
10	256QAM	50	0	19.03			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.75	23.79	23.86	25.7
5	QPSK	1	24	23.82	23.86	23.90	
5	QPSK	1	24	23.85	23.87	23.79	
5	QPSK	12	0	22.87	22.89	22.94	24.7
5	QPSK	12	12	22.98	22.94	22.98	
5	QPSK	12	12	22.89	22.83	22.86	
5	QPSK	25	0	22.97	22.94	22.96	24.7
5	16QAM	1	0	23.07	23.10	23.17	
5	16QAM	1	12	23.18	23.17	23.19	
5	16QAM	1	24	23.24	23.18	23.29	23.7
5	16QAM	12	0	21.88	21.83	21.95	
5	16QAM	12	7	22.01	21.98	22.00	
5	16QAM	12	13	22.01	21.95	21.96	23.7
5	16QAM	25	0	21.98	21.94	21.94	
5	16QAM	1	0	22.03	22.08	21.87	
5	16QAM	1	24	22.16	22.14	21.97	22.7
5	16QAM	1	24	22.16	22.09	21.83	
5	16QAM	12	0	20.94	20.96	20.93	
5	16QAM	12	7	21.05	21.02	20.95	22.7
5	16QAM	12	13	21.05	20.96	20.95	
5	16QAM	25	0	21.01	21.00	20.81	
5	256QAM	1	0	19.11	19.19	19.16	20.7
5	256QAM	1	12	19.21	19.19	19.22	
5	256QAM	1	24	19.06	19.05	19.07	
5	256QAM	12	7	18.99	19.06	18.96	20.7
5	256QAM	12	13	19.03	18.93	18.99	
5	256QAM	25	0	19.03	18.96	19.01	





Band 71_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (ms)			
Channel										
Frequency (MHz)										
693 693 698										
20	QPSK	1	0	2348	2348	2337	25			
20	QPSK	1	49	2342	2341	2337				
20	QPSK	1	99	2336	2339	2338				
20	QPSK	60	0	2257	2258	2248	24			
20	QPSK	50	24	2254	2249	2248				
20	QPSK	50	50	2258	2251	2250				
20	HQAM	100	0	2251	2252	2248	24			
20	HQAM	1	0	2288	2282	2274				
20	HQAM	1	49	2277	2277	2276				
20	HQAM	1	99	2271	2272	2271	23			
20	HQAM	50	0	2159	2153	2148				
20	HQAM	50	24	2161	2151	2149				
20	HQAM	50	50	2158	2153	2150	23			
20	HQAM	100	0	2159	2148	2148				
20	HQAM	1	0	2173	2167	2163				
20	HQAM	1	49	2158	2150	2158	22			
20	HQAM	1	99	2159	2163	2160				
20	HQAM	50	0	2053	2056	2047				
20	HQAM	50	24	2083	2054	2051	20			
20	HQAM	50	50	2080	2058	2053				
20	HQAM	100	0	2081	2052	2049				
20	SSBQAM	1	0	1858	1844	1837	20			
20	SSBQAM	1	49	1857	1832	1846				
20	SSBQAM	1	99	1846	1845	1848				
20	SSBQAM	50	0	1847	1843	1830	20			
20	SSBQAM	50	24	1841	1835	1829				
20	SSBQAM	50	50	1835	1835	1827				
20	SSBQAM	100	0	1843	1838	1829	20			
Channel										
Frequency (MHz)										
670.5 680.5 690.5										
15	QPSK	1	0	2341	2348	2329	25			
15	QPSK	1	49	2340	2337	2330				
15	QPSK	1	74	2325	2332	2327				
15	QPSK	30	0	2249	2248	2241	24			
15	QPSK	30	20	2250	2245	2240				
15	QPSK	30	39	2247	2241	2244				
15	QPSK	75	0	2247	2245	2242	24			
15	HQAM	1	0	2288	2282	2271				
15	HQAM	1	39	2275	2267	2268				
15	HQAM	1	74	2268	2270	2270	23			
15	HQAM	30	0	2153	2153	2144				
15	HQAM	30	20	2158	2142	2144				
15	HQAM	30	39	2148	2151	2146	23			
15	HQAM	75	0	2153	2141	2144				
15	HQAM	1	0	2168	2157	2162				
15	HQAM	1	49	2158	2151	2155	22			
15	HQAM	1	74	2150	2158	2160				
15	HQAM	30	0	2047	2049	2042				
15	HQAM	30	20	2052	2054	2050	20			
15	HQAM	30	39	2052	2054	2050				
15	HQAM	75	0	2058	2048	2049				
15	SSBQAM	1	0	1853	1840	1835	20			
15	SSBQAM	1	39	1852	1831	1843				
15	SSBQAM	1	74	1841	1835	1847				
15	SSBQAM	30	0	1843	1840	1834	20			
15	SSBQAM	30	20	1838	1835	1823				
15	SSBQAM	30	39	1830	1830	1822				
15	SSBQAM	75	0	1839	1833	1819	20			
Channel										
Frequency (MHz)										
13312 13322 13342										
10	QPSK	1	0	2340	2348	2335	25			
10	QPSK	1	25	2340	2338	2334				
10	QPSK	1	49	2325	2334	2334				
10	QPSK	25	0	2287	2283	2289	24			
10	QPSK	25	12	2283	2248	2247				
10	QPSK	25	25	2281	2248	2249				
10	QPSK	50	0	2248	2245	2240	24			
10	HQAM	1	0	2288	2282	2270				
10	HQAM	1	25	2287	2269	2276				
10	HQAM	1	49	2284	2282	2285	23			
10	HQAM	25	0	2152	2152	2139				
10	HQAM	25	12	2159	2151	2148				
10	HQAM	25	25	2150	2143	2148	23			
10	HQAM	50	0	2154	2148	2140				
10	HQAM	1	0	2172	2163	2155				
10	HQAM	1	25	2184	2127	2153	22			
10	HQAM	1	49	2149	2156	2159				
10	HQAM	25	0	2040	2036	2040				
10	HQAM	25	12	2052	2045	2049	20			
10	HQAM	25	25	2058	2053	2051				
10	HQAM	50	0	2058	2050	2042				
10	SSBQAM	1	0	1848	1839	1832	20			
10	SSBQAM	1	25	1847	1824	1841				
10	SSBQAM	1	49	1845	1843	1844				
10	SSBQAM	25	0	1838	1840	1832	20			
10	SSBQAM	25	12	1834	1828	1823				
10	SSBQAM	25	25	1833	1834	1823				
10	SSBQAM	50	0	1841	1838	1823	20			
Channel										
Frequency (MHz)										
692.5 670.5 690.5										
5	QPSK	1	0	2341	2345	2331	25			
5	QPSK	1	12	2338	2341	2331				
5	QPSK	1	24	2328	2338	2329				
5	QPSK	10	0	2250	2255	2238	24			
5	QPSK	12	7	2245	2243	2239				
5	QPSK	12	13	2250	2244	2248				
5	QPSK	25	0	2243	2244	2242	24			
5	HQAM	1	0	2279	2277	2285				
5	HQAM	1	12	2270	2274	2287				
5	HQAM	1	24	2262	2269	2262	23			
5	HQAM	12	0	2149	2152	2148				
5	HQAM	12	13	2154	2146	2140				
5	HQAM	12	13	2149	2148	2149	23			
5	HQAM	25	0	2153	2139	2148				
5	HQAM	1	0	2173	2160	2158				
5	HQAM	1	12	2182	2188	2185	22			
5	HQAM	1	24	2159	2160	2159				
5	HQAM	12	0	2048	2047	2043				
5	HQAM	12	7	2061	2053	2049	20			
5	HQAM	12	13	2059	2054	2048				
5	HQAM	25	0	2059	2052	2047				
5	SSBQAM	1	0	1855	1838	1849	20			
5	SSBQAM	1	12	1857	1823	1846				
5	SSBQAM	1	24	1842	1841	1848				
5	SSBQAM	12	0	1847	1835	1832	20			
5	SSBQAM	12	13	1840	1832	1827				
5	SSBQAM	12	13	1830	1828	1820				
5	SSBQAM	25	0	1834	1827	1822	20			





Band 38_Ant 2										
BW (MHz)	Modulation	RB Start	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq			
Channel				3850	3800	3850				
Frequency (MHz)				2595	2595	2595				
20	QPSK	1	0	24.68	24.63	24.52	25.7			
20	QPSK	1	49	24.69	24.64	24.52				
20	QPSK	1	98	24.68	24.64	24.52				
20	QPSK	50	0	23.87	23.70	23.69	24.7			
20	QPSK	50	24	23.86	23.72	23.69				
20	QPSK	50	50	23.87	23.70	23.69				
20	QPSK	100	0	23.88	23.71	23.69	24.7			
20	16QAM	1	0	23.81	23.74	23.67				
20	16QAM	1	49	23.79	23.72	23.61				
20	16QAM	1	99	23.81	23.69	23.61	23.7			
20	16QAM	50	0	23.91	22.76	22.73				
20	16QAM	50	24	22.90	22.75	22.70				
20	16QAM	50	50	22.90	22.72	22.68	23.7			
20	16QAM	100	0	22.89	22.74	22.70				
20	64QAM	1	0	23.57	22.41	22.42				
20	64QAM	1	49	23.53	22.46	22.38	23.7			
20	64QAM	1	99	23.58	22.39	22.42				
20	64QAM	50	0	23.49	22.36	22.37				
20	64QAM	50	24	22.05	21.77	21.70	23.7			
20	64QAM	50	50	22.82	21.74	21.70				
20	64QAM	100	0	22.70	21.74	21.70				
20	256QAM	1	0	18.77	18.78	18.81	20.7			
20	256QAM	1	49	18.70	18.68	18.59				
20	256QAM	1	99	18.73	18.67	18.64				
20	256QAM	50	0	20.07	18.96	18.97	20.7			
20	256QAM	50	24	20.02	18.92	18.91				
20	256QAM	50	50	20.01	18.83	18.87				
20	256QAM	100	0	20.03	18.92	18.91	20.7			
Channel				3850	3800	3850				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	24.60	24.52	24.49	25.7			
15	QPSK	1	49	24.63	24.52	24.49				
15	QPSK	1	74	24.59	24.52	24.38				
15	QPSK	36	0	23.77	23.63	23.58	24.7			
15	QPSK	36	20	23.80	23.74	23.58				
15	QPSK	36	39	23.75	23.61	23.58				
15	QPSK	75	0	23.78	23.63	23.58	24.7			
15	16QAM	1	0	23.78	23.68	23.58				
15	16QAM	1	74	23.74	23.63	23.54				
15	16QAM	36	0	22.76	22.64	22.55	23.7			
15	16QAM	36	20	22.74	22.68	22.54				
15	16QAM	36	39	22.74	22.58	22.54				
15	64QAM	75	0	22.79	22.65	22.60	23.7			
15	64QAM	1	0	22.90	22.56	22.50				
15	64QAM	1	37	22.44	22.37	22.23				
15	64QAM	1	74	22.44	22.36	22.26	23.7			
15	64QAM	36	0	21.82	21.67	21.61				
15	64QAM	36	20	21.80	21.73	21.61				
15	64QAM	36	39	21.81	21.65	21.58	22.7			
15	64QAM	75	0	21.81	21.65	21.61				
15	256QAM	1	0	18.75	18.75	18.75				
15	256QAM	1	37	18.07	18.05	18.05	20.7			
15	256QAM	1	74	18.72	18.55	18.49				
15	256QAM	36	0	18.08	18.08	18.08				
15	256QAM	36	20	18.05	18.06	18.01	20.7			
15	256QAM	36	39	18.08	18.83	18.84				
15	256QAM	75	0	18.09	18.91	18.90				
Channel				3850	3800	3850				
Frequency (MHz)				2592.5	2595	2607.5				
10	QPSK	1	0	24.63	24.61	24.42	25.7			
10	QPSK	1	25	24.61	24.55	24.41				
10	QPSK	1	49	24.67	24.63	24.43				
10	QPSK	25	0	23.74	23.59	23.62	24.7			
10	QPSK	25	12	23.75	23.69	23.51				
10	QPSK	25	24	23.74	23.66	23.51				
10	QPSK	50	0	23.75	23.61	23.53	24.7			
10	16QAM	1	0	23.81	23.68	23.52				
10	16QAM	1	25	23.72	23.64	23.51				
10	16QAM	1	49	23.79	23.68	23.47	23.7			
10	16QAM	25	0	22.74	22.69	22.63				
10	16QAM	25	12	22.76	22.72	22.58				
10	16QAM	25	20	22.74	22.67	22.48	23.7			
10	16QAM	50	0	22.78	22.65	22.56				
10	64QAM	1	0	22.97	22.39	22.32				
10	64QAM	1	49	22.94	22.43	22.31	23.7			
10	64QAM	25	0	21.81	21.67	21.61				
10	64QAM	25	12	21.83	21.75	21.63				
10	64QAM	25	20	21.82	21.78	21.60	22.7			
10	64QAM	50	0	21.78	21.66	21.67				
10	256QAM	1	0	18.09	18.72	18.78				
10	256QAM	1	25	18.05	18.59	18.58	20.7			
10	256QAM	1	49	18.09	18.52	18.48				
10	256QAM	25	0	18.08	18.89	18.91				
10	256QAM	25	12	18.04	18.83	18.86	20.7			
10	256QAM	25	24	18.01	18.76	18.82				
10	256QAM	50	0	20.01	18.84	18.88				
Channel				3850	3800	3850				
Frequency (MHz)				2592.5	2595	2607.5				
5	QPSK	1	0	24.58	24.53	24.37	25.7			
5	QPSK	1	14	24.54	24.49	24.35				
5	QPSK	1	24	24.59	24.52	24.33				
5	QPSK	12	0	23.68	23.49	23.44	24.7			
5	QPSK	12	7	23.72	23.64	23.50				
5	QPSK	12	13	23.71	23.66	23.49				
5	QPSK	25	0	23.72	23.65	23.45	24.7			
5	16QAM	1	0	23.72	23.67	23.62				
5	16QAM	1	12	23.75	23.68	23.50				
5	16QAM	1	24	23.75	23.68	23.52	24.7			
5	16QAM	12	0	22.67	22.60	22.46				
5	16QAM	12	7	22.72	22.66	22.47				
5	16QAM	12	13	22.67	22.62	22.45	23.7			
5	16QAM	25	0	22.73	22.68	22.52				
5	64QAM	1	0	22.51	22.44	22.25				
5	64QAM	1	12	22.54	22.44	22.30	23.7			
5	64QAM	1	24	22.54	22.49	22.28				
5	64QAM	12	0	21.78	21.71	21.53				
5	64QAM	12	7	21.77	21.70	21.55	22.7			
5	64QAM	12	13	21.76	21.70	21.51				
5	64QAM	25	0	21.79	21.70	21.55				
5	256QAM	1	0	18.67	18.77	18.81	20.7			
5	256QAM	1	12	18.64	18.83	18.56				
5	256QAM	1	24	18.72	18.50	18.49				
5	256QAM	12	0	20.00	18.96	18.97	20.7			
5	256QAM	12	7	19.07	18.95	18.93				
5	256QAM	12	13	18.99	18.80	18.77				
5	256QAM	25	0	18.98	18.87	18.82	20.7			







Band 48_Ant 7									
SRV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Time-up (min)	
Channel				5540	5580	5620	5660	(dBm)	
Frequency (MHz)				3505	3505	3541	3595		
20	QPSK	1	0	24.12	24.37	24.52	24.44		
20	QPSK	1	49	24.04	24.21	24.31	24.22		25.7
20	QPSK	1	98	24.05	24.25	24.24	24.44		
20	QPSK	50	0	23.22	23.42	23.53	23.47		24.7
20	QPSK	50	24	23.10	23.40	23.48	23.42		
20	QPSK	50	50	23.13	23.33	23.34	23.24		
20	QPSK	100	0	23.17	23.37	23.48	23.40		24.7
20	16QAM	1	0	23.02	23.45	23.55	23.52		
20	16QAM	1	49	23.11	23.25	23.41	23.31		24.7
20	16QAM	1	99	23.13	23.33	23.37	23.28		
20	16QAM	50	0	23.24	23.44	23.57	23.50		23.7
20	16QAM	50	24	23.21	23.42	23.53	23.44		
20	16QAM	50	50	22.76	23.17	23.21	23.07		
20	16QAM	100	0	22.18	22.41	22.49	22.40		23.7
20	64QAM	1	0	21.89	22.14	22.35	22.28		
20	64QAM	1	49	21.85	22.07	22.17	22.08		22.7
20	64QAM	1	99	21.92	22.08	22.07	21.95		
20	64QAM	50	0	21.06	21.47	21.57	21.50		22.7
20	64QAM	50	24	21.22	21.44	21.55	21.42		
20	64QAM	50	50	21.16	21.38	21.38	21.29		22.7
20	64QAM	100	0	21.18	21.45	21.55	21.42		
20	256QAM	1	0	19.23	19.31	19.59	19.41		20.7
20	256QAM	1	49	18.18	19.33	19.49	19.30		
20	256QAM	1	99	19.30	19.30	19.66	19.37		20.7
20	256QAM	50	0	19.52	19.64	19.80	19.64		
20	256QAM	50	24	19.52	19.65	19.84	19.65		20.7
20	256QAM	50	50	19.54	19.65	19.77	19.61		
20	256QAM	100	0	19.47	19.64	19.77	19.63		20.7
Channel				5620	5660	5700	5740	Time-up (min)	
Frequency (MHz)				3527.5	3600	3652	3692.5		
15	QPSK	1	0	24.05	24.28	24.40	24.34		
15	QPSK	1	50	23.07	23.30	24.30	24.15		25.7
15	QPSK	1	74	23.99	24.21	24.29	24.17		
15	QPSK	36	0	23.18	23.39	23.50	23.44		24.7
15	QPSK	36	20	23.12	23.36	23.46	23.38		
15	QPSK	36	39	23.09	23.32	23.34	23.31		24.7
15	QPSK	0	0	23.13	23.37	23.49	23.40		
15	16QAM	1	0	23.20	23.43	23.55	23.48		24.7
15	16QAM	1	37	23.05	23.28	23.39	23.32		
15	16QAM	1	74	23.20	23.35	23.45	23.37		23.7
15	16QAM	36	0	22.14	22.37	22.48	22.37		
15	16QAM	36	20	22.10	22.32	22.42	22.33		23.7
15	16QAM	36	39	22.07	22.29	22.30	22.20		
15	16QAM	75	0	22.18	22.38	22.47	22.38		23.7
15	64QAM	1	0	21.02	22.08	22.28	22.21		
15	64QAM	1	37	21.83	22.04	22.15	22.08		23.7
15	64QAM	1	74	21.86	22.04	22.14	22.05		
15	64QAM	36	0	21.21	21.41	21.53	21.48		22.7
15	64QAM	36	20	21.16	21.40	21.49	21.37		
15	64QAM	36	39	21.12	21.35	21.38	21.33		22.7
15	64QAM	75	0	21.18	21.41	21.49	21.39		
15	256QAM	1	0	19.24	19.24	19.64	19.42		20.7
15	256QAM	1	37	19.09	19.24	19.41	19.25		
15	256QAM	1	74	19.24	19.49	19.58	19.39		20.7
15	256QAM	36	0	19.47	19.58	19.71	19.63		
15	256QAM	36	20	19.52	19.64	19.76	19.60		20.7
15	256QAM	36	39	19.52	19.60	19.77	19.61		
15	256QAM	75	0	19.48	19.55	19.72	19.58		20.7
Channel				5695	5695	5695	5695	Time-up (min)	
Frequency (MHz)				3582.5	3600	3641	3672.5		
5	QPSK	1	0	24.05	24.18	24.33	24.31		
5	QPSK	1	14	23.04	24.15	24.22	24.18		25.7
5	QPSK	1	24	23.03	24.14	24.25	24.19		
5	QPSK	12	0	23.09	23.29	24.40	24.40		24.7
5	QPSK	12	7	23.04	23.28	23.35	23.28		
5	QPSK	12	13	23.07	23.31	23.33	23.22		24.7
5	QPSK	25	0	23.15	23.33	23.41	23.38		
5	16QAM	1	0	23.18	23.35	23.64	23.40		24.7
5	16QAM	1	12	22.96	23.22	23.30	23.18		
5	16QAM	1	24	23.13	23.30	23.39	23.29		23.7
5	16QAM	12	0	22.08	22.27	22.40	22.32		
5	16QAM	12	7	22.08	22.26	22.40	22.28		23.7
5	16QAM	12	13	21.98	22.25	22.34	22.20		
5	16QAM	25	0	22.18	22.38	22.38	22.28		23.7
5	64QAM	1	0	21.91	22.01	22.17	22.12		
5	64QAM	1	12	21.74	22.01	22.05	22.06		23.7
5	64QAM	1	24	21.80	22.13	22.08	21.91		
5	64QAM	12	0	21.15	21.33	21.40	21.41		22.7
5	64QAM	12	7	21.07	21.30	21.49	21.31		
5	64QAM	12	13	21.12	21.34	21.29	21.28		22.7
5	64QAM	25	0	21.11	21.40	21.49	21.33		
5	256QAM	1	0	19.14	19.26	19.52	19.34		20.7
5	256QAM	1	12	19.16	19.32	19.49	19.29		
5	256QAM	1	24	19.25	19.45	19.59	19.27		20.7
5	256QAM	12	0	19.00	19.05	19.30	19.06		
5	256QAM	12	7	19.02	19.05	19.27	19.02		20.7
5	256QAM	12	13	19.45	19.52	19.79	19.59		
5	256QAM	25	0	19.37	19.61	19.68	19.61		20.7



Band 38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Cm / Freq	Power KHz / Freq	Power Hz / Freq	Take-up freq		
Channel				3850	3800	3850			
Frequency (MHz)				2590	2590	2590			
20	QPSK	1	0	2342	2333	2325			
20	QPSK	1	49	2342	2336	2327	20.2		
20	QPSK	1	99	2342	2338	2329			
20	QPSK	50	0	2259	2242	2240			
20	QPSK	50	24	2259	2240	2241	24.2		
20	QPSK	50	50	2259	2242	2240			
20	QPSK	100	0	2259	2241	2242			
20	16QAM	1	0	2257	2248	2249			
20	16QAM	1	49	2257	2248	2237	24.2		
20	16QAM	1	99	2257	2247	2244			
20	16QAM	50	0	2142	2145	2144			
20	16QAM	50	24	2159	2144	2144	20.2		
20	16QAM	50	50	2159	2144	2145			
20	16QAM	100	0	2159	2144	2144			
20	64QAM	1	0	2128	2122	2122			
20	64QAM	1	49	2133	2128	2125	20.2		
20	64QAM	1	99	2137	2129	2129			
20	64QAM	50	0	2045	2045	2044			
20	64QAM	50	24	2053	2047	2045	20.2		
20	64QAM	50	50	2059	2045	2044			
20	64QAM	100	0	2050	2045	2044			
20	256QAM	1	0	1846	1838	1836			
20	256QAM	1	49	1835	1826	1827	20.2		
20	256QAM	1	99	1834	1828	1824			
20	256QAM	50	0	1871	1852	1850			
20	256QAM	50	24	1856	1851	1851	20.2		
20	256QAM	50	50	1843	1839	1833			
20	256QAM	100	0	1842	1847	1846			
Channel				3777.5	3769	3772.5			
Frequency (MHz)				2577.5	2569	2572.5			
15	QPSK	1	0	2338	2328	2321			
15	QPSK	1	49	2340	2334	2327	20.2		
15	QPSK	1	74	2334	2323	2327			
15	QPSK	36	0	2256	2234	2234			
15	QPSK	36	20	2256	2239	2239	24.2		
15	QPSK	36	39	2246	2242	2230			
15	QPSK	75	0	2249	2231	2240			
15	16QAM	1	0	2247	2245	2234			
15	16QAM	1	37	2242	2242	2234	24.2		
15	16QAM	1	74	2254	2239	2237			
15	16QAM	36	0	2159	2141	2144			
15	16QAM	36	20	2148	2137	2141	20.2		
15	16QAM	36	39	2158	2137	2139			
15	64QAM	75	0	2151	2144	2138			
15	64QAM	1	0	2125	2129	2121			
15	64QAM	1	37	2131	2123	2122	20.2		
15	64QAM	1	74	2135	2129	2123			
15	64QAM	36	0	2057	2044	2040			
15	64QAM	36	20	2051	2043	2037	20.2		
15	64QAM	36	39	2050	2045	2037			
15	64QAM	75	0	2054	2037	2039			
15	256QAM	1	0	1839	1837	1837			
15	256QAM	1	37	1831	1825	1825	20.2		
15	256QAM	1	74	1832	1823	1823			
15	256QAM	36	0	1843	1845	1846			
15	256QAM	36	20	1843	1847	1845	20.2		
15	256QAM	36	39	1853	1838	1831			
15	256QAM	75	0	1841	1847	1838			
Channel				3760	3600	3600			
Frequency (MHz)				2590	2590	2590			
10	QPSK	1	0	2338	2327	2321			
10	QPSK	1	25	2334	2334	2327	20.2		
10	QPSK	1	49	2331	2328	2324			
10	QPSK	25	0	2255	2241	2236			
10	QPSK	25	12	2253	2239	2233	24.2		
10	QPSK	25	24	2253	2239	2233			
10	QPSK	50	0	2251	2236	2236			
10	16QAM	1	0	2247	2238	2231			
10	16QAM	1	25	2244	2239	2237	24.2		
10	16QAM	1	49	2254	2246	2234			
10	16QAM	25	0	2159	2143	2142			
10	16QAM	25	12	2155	2135	2134	20.2		
10	16QAM	25	24	2153	2144	2144			
10	16QAM	50	0	2152	2145	2142			
10	64QAM	1	0	2127	2122	2122			
10	64QAM	1	25	2127	2122	2121	20.2		
10	64QAM	1	49	2133	2121	2123			
10	64QAM	25	0	2062	2041	2035			
10	64QAM	25	12	2058	2042	2035	20.2		
10	64QAM	25	24	2055	2042	2038			
10	64QAM	50	0	2055	2036	2037			
10	256QAM	1	0	1839	1831	1832			
10	256QAM	1	25	1838	1824	1821	20.2		
10	256QAM	1	49	1831	1824	1822			
10	256QAM	25	0	1834	1842	1846			
10	256QAM	25	12	1834	1843	1835	20.2		
10	256QAM	25	24	1836	1835	1824			
10	256QAM	50	0	1838	1841	1845			
Channel				2592.5	2595	2592.5			
Frequency (MHz)				2592.5	2595	2592.5			
5	QPSK	1	0	2339	2324	2325			
5	QPSK	1	14	2341	2329	2329	20.2		
5	QPSK	1	24	2332	2321	2321			
5	QPSK	12	0	2256	2234	2231			
5	QPSK	12	7	2248	2235	2235	24.2		
5	QPSK	12	13	2245	2232	2238			
5	QPSK	25	0	2253	2241	2237			
5	16QAM	1	0	2247	2242	2238			
5	16QAM	1	12	2244	2244	2238	24.2		
5	16QAM	1	24	2254	2245	2239			
5	16QAM	12	0	2154	2143	2137			
5	16QAM	12	7	2159	2138	2144	20.2		
5	16QAM	12	13	2159	2143	2135			
5	16QAM	25	0	2159	2140	2134			
5	64QAM	1	0	2130	2129	2122			
5	64QAM	1	12	2131	2123	2123	20.2		
5	64QAM	1	24	2130	2123	2121			
5	64QAM	12	0	2054	2035	2038			
5	64QAM	12	7	2056	2037	2035	20.2		
5	64QAM	12	13	2053	2046	2038			
5	64QAM	25	0	2040	2035	2042			
5	256QAM	1	0	1845	1837	1834			
5	256QAM	1	12	1838	1824	1827	20.2		
5	256QAM	1	24	1838	1820	1822			
5	256QAM	12	0	1843	1851	1846			
5	256QAM	12	7	1843	1842	1842	20.2		
5	256QAM	12	13	1836	1839	1827			
5	256QAM	25	0	1832	1829	1846			







Band 48_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Ch / Freq	Take-up time (dBm)	
Channel				5640	5680	5690	5660		
Frequency (MHz)				5650	5690	5681	5660		
20	QPSK	1	0	24.39	24.55	24.82	24.85		
20	QPSK	1	49	24.27	24.36	24.48	24.47		25.7
20	QPSK	1	99	24.31	24.34	24.42	24.42		
20	QPSK	50	0	23.47	23.57	23.80	23.81		
20	QPSK	50	24	23.46	23.54	23.65	23.66		24.7
20	QPSK	50	50	23.40	23.47	23.54	23.57		
20	QPSK	100	0	23.43	23.52	23.52	23.54		
20	16QAM	1	0	23.58	23.67	23.72	23.76		
20	16QAM	1	49	23.37	23.44	23.52	23.52		24.7
20	16QAM	1	99	23.39	23.45	23.54	23.57		
20	16QAM	50	0	23.39	23.59	23.81	23.82		
20	16QAM	50	24	23.47	23.55	23.57	23.67		23.7
20	16QAM	50	50	23.43	23.46	23.52	23.56		
20	16QAM	100	0	22.43	22.54	22.65	22.64		
20	64QAM	1	0	22.25	22.38	22.43	22.43		
20	64QAM	1	49	22.12	22.20	22.29	22.29		23.7
20	64QAM	1	99	22.12	22.19	22.31	22.32		
20	64QAM	50	0	21.49	21.59	21.61	21.64		
20	64QAM	50	24	21.49	21.53	21.57	21.65		22.7
20	64QAM	50	50	21.42	21.49	21.59	21.59		
20	64QAM	100	0	21.47	21.54	21.53	21.56		
20	256QAM	1	0	18.91	18.16	18.12	18.33		
20	256QAM	1	49	18.81	18.04	18.11	18.31		20.7
20	256QAM	1	99	18.91	18.16	18.21	18.42		
20	256QAM	50	0	18.17	18.38	18.34	18.56		
20	256QAM	50	24	18.16	18.28	18.33	18.55		20.7
20	256QAM	50	50	18.21	18.38	18.49	18.61		
20	256QAM	100	0	18.13	18.34	18.36	18.61		
Channel				5650	5690	5682	5660	Take-up time (dBm)	
Frequency (MHz)				5657.5	5690	5682	5660		
15	QPSK	1	0	24.36	24.44	24.53	24.57		
15	QPSK	1	49	24.24	24.33	24.42	24.42		25.7
15	QPSK	1	74	24.28	24.33	24.42	24.41		
15	QPSK	36	0	23.44	23.52	23.55	23.57		
15	QPSK	36	20	23.39	23.49	23.57	23.58		24.7
15	QPSK	36	39	23.37	23.43	23.54	23.56		
15	QPSK	75	0	23.42	23.50	23.61	23.61		
15	16QAM	1	0	23.48	23.57	23.63	23.67		24.7
15	16QAM	1	37	23.37	23.44	23.52	23.52		
15	16QAM	1	74	23.44	23.49	23.59	23.64		
15	16QAM	36	0	22.41	22.50	22.52	22.55		
15	16QAM	36	20	22.37	22.44	22.54	22.52		23.7
15	16QAM	36	39	22.34	22.40	22.50	22.52		
15	16QAM	75	0	22.42	22.50	22.51	22.58		
15	64QAM	1	0	22.29	22.31	22.32	22.38		
15	64QAM	1	37	22.09	22.16	22.28	22.31		23.7
15	64QAM	1	74	22.16	22.24	22.35	22.36		
15	64QAM	36	0	21.45	21.55	21.57	21.61		
15	64QAM	36	20	21.40	21.49	21.59	21.54		22.7
15	64QAM	36	39	21.40	21.46	21.52	21.58		
15	64QAM	75	0	21.43	21.50	21.54	21.55		
15	256QAM	1	0	18.88	18.13	18.13	18.33		
15	256QAM	1	37	18.77	18.04	18.10	18.32		20.7
15	256QAM	1	74	18.97	18.15	18.24	18.49		
15	256QAM	36	0	18.13	18.30	18.31	18.45		
15	256QAM	36	20	18.14	18.38	18.32	18.85		20.7
15	256QAM	36	39	18.11	18.35	18.46	18.64		
15	256QAM	75	0	18.14	18.24	18.29	18.59		
Channel				5650	5690	5676	5660	Take-up time (dBm)	
Frequency (MHz)				5657.5	5690	5676	5660		
10	QPSK	1	0	24.34	24.37	24.50	24.57		
10	QPSK	1	25	24.34	24.29	24.34	24.39		25.7
10	QPSK	1	49	24.35	24.24	24.42	24.42		
10	QPSK	25	0	23.41	23.44	23.83	23.48		
10	QPSK	25	12	23.36	23.39	23.83	23.47		24.7
10	QPSK	25	24	23.38	23.39	23.83	23.43		
10	QPSK	50	0	23.32	23.43	23.44	23.63		
10	16QAM	1	0	23.30	23.37	23.58	23.66		
10	16QAM	1	26	23.19	23.34	23.37	23.48		24.7
10	16QAM	1	49	23.39	23.47	23.49	23.54		
10	16QAM	25	0	22.38	22.44	22.48	22.55		
10	16QAM	25	12	22.35	22.35	22.49	22.40		23.7
10	16QAM	25	24	22.34	22.39	22.48	22.50		
10	16QAM	50	0	22.41	22.51	22.49	22.48		
10	64QAM	1	0	22.11	22.26	22.28	22.30		
10	64QAM	1	26	21.90	22.11	22.28	22.25		23.7
10	64QAM	25	0	21.35	21.47	21.48	21.58		
10	64QAM	25	12	21.31	21.43	21.52	21.42		
10	64QAM	25	24	21.37	21.38	21.55	21.58		22.7
10	64QAM	50	0	21.36	21.46	21.49	21.48		
10	256QAM	1	0	18.88	18.12	18.02	18.28		
10	256QAM	1	25	18.73	18.01	18.09	18.23		20.7
10	256QAM	1	49	18.98	18.10	18.22	18.30		
10	256QAM	25	0	18.14	18.31	18.31	18.51		
10	256QAM	25	12	18.15	18.28	18.38	18.80		20.7
10	256QAM	25	24	18.14	18.28	18.46	18.83		
10	256QAM	50	0	18.07	18.29	18.32	18.61		
Channel				5650	5690	5676	5660	Take-up time (dBm)	
Frequency (MHz)				5657.5	5690	5676	5660		
5	QPSK	1	0	24.34	24.42	24.53	24.61		
5	QPSK	1	14	24.22	24.23	24.42	24.47		25.7
5	QPSK	1	24	24.29	24.36	24.44	24.55		
5	QPSK	12	0	23.41	23.59	24.01	23.67		
5	QPSK	12	7	23.38	23.47	23.55	23.61		24.7
5	QPSK	12	13	23.42	23.45	23.59	23.63		
5	QPSK	25	0	23.40	23.48	23.58	23.65		
5	16QAM	1	0	23.47	23.57	23.65	23.75		
5	16QAM	1	12	23.45	23.63	23.60	23.67		24.7
5	16QAM	1	24	23.50	23.57	23.65	23.69		
5	16QAM	12	0	22.39	22.48	22.59	22.63		
5	16QAM	12	7	22.36	22.46	22.54	22.64		23.7
5	16QAM	12	13	22.37	22.47	22.51	22.64		
5	16QAM	25	0	22.44	22.53	22.62	22.68		
5	64QAM	1	0	22.30	22.28	22.41	22.44		
5	64QAM	1	12	22.12	22.21	22.32	22.38		23.7
5	64QAM	1	24	22.18	22.28	22.41	22.47		
5	64QAM	12	0	21.48	21.54	21.68	21.71		
5	64QAM	12	7	21.44	21.49	21.62	21.65		22.7
5	64QAM	12	13	21.43	21.47	21.50	21.62		
5	64QAM	25	0	21.47	21.52	21.61	21.71		
5	256QAM	1	0	18.90	18.14	18.11	18.24		
5	256QAM	1	12	18.71	18.03	18.09	18.23		20.7
5	256QAM	1	24	18.99	18.14	18.20	18.37		
5	256QAM	12	0	18.10	18.29	18.24	18.41		
5	256QAM	12	7	18.15	18.31	18.33	18.41		20.7
5	256QAM	12	13	18.13	18.38	18.43	18.64		
5	256QAM	25	0	18.11	18.24	18.33	18.58		





Band 38_Ant 2										
BW (MHz)	Modulation	RB Start	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq			
Channel				3850	3800	3850				
Frequency (MHz)				2595	2595	2595				
20	QPSK	1	0	24.68	24.63	24.52	25.7			
20	QPSK	1	49	24.69	24.64	24.52				
20	QPSK	1	98	24.68	24.64	24.52				
20	QPSK	50	0	23.87	23.70	23.69	24.7			
20	QPSK	50	24	23.86	23.72	23.69				
20	QPSK	50	50	23.87	23.70	23.69				
20	QPSK	100	0	23.88	23.71	23.69	24.7			
20	16QAM	1	0	23.81	23.74	23.67				
20	16QAM	1	49	23.79	23.72	23.61				
20	16QAM	1	99	23.81	23.69	23.61	23.7			
20	16QAM	50	0	23.91	22.76	22.73				
20	16QAM	50	24	22.90	22.75	22.70				
20	16QAM	50	50	22.90	22.72	22.68	23.7			
20	16QAM	100	0	22.89	22.78	22.70				
20	64QAM	1	0	23.57	22.41	22.42				
20	64QAM	1	49	23.53	22.46	22.38	23.7			
20	64QAM	1	99	23.58	22.39	22.42				
20	64QAM	50	0	23.49	21.76	21.77				
20	64QAM	50	24	22.05	21.77	21.70	23.7			
20	64QAM	50	50	22.82	21.74	21.70				
20	64QAM	100	0	22.70	21.74	21.70				
20	256QAM	1	0	18.77	18.78	18.81	20.7			
20	256QAM	1	49	18.70	18.68	18.59				
20	256QAM	1	99	18.73	18.67	18.64				
20	256QAM	50	0	20.07	18.96	18.97	20.7			
20	256QAM	50	24	20.02	18.92	18.91				
20	256QAM	50	50	20.01	18.83	18.87				
20	256QAM	100	0	20.03	18.92	18.91	20.7			
Channel				3760	3800	3850				
Frequency (MHz)				2377.5	2395	2422.5				
15	QPSK	1	0	24.60	24.52	24.49	25.7			
15	QPSK	1	49	24.63	24.52	24.49				
15	QPSK	1	74	24.59	24.52	24.38				
15	QPSK	36	0	23.77	23.63	23.58	24.7			
15	QPSK	36	20	23.80	23.74	23.58				
15	QPSK	36	39	23.75	23.61	23.58				
15	QPSK	75	0	23.78	23.63	23.58	24.7			
15	16QAM	1	0	23.78	23.68	23.58				
15	16QAM	1	74	23.74	23.63	23.54				
15	16QAM	36	0	22.76	22.64	22.55	23.7			
15	16QAM	36	20	22.74	22.68	22.54				
15	16QAM	36	39	22.74	22.58	22.54				
15	64QAM	75	0	22.79	22.65	22.60	23.7			
15	64QAM	1	0	22.90	22.56	22.50				
15	64QAM	1	37	22.44	22.37	22.23				
15	64QAM	1	74	22.44	22.36	22.26	23.7			
15	64QAM	36	0	21.82	21.67	21.61				
15	64QAM	36	20	21.80	21.73	21.61				
15	64QAM	36	39	21.81	21.65	21.58	22.7			
15	64QAM	75	0	21.81	21.65	21.61				
15	256QAM	1	0	18.75	18.76	18.81				
15	256QAM	1	37	18.07	18.05	18.55	20.7			
15	256QAM	1	74	18.72	18.55	18.49				
15	256QAM	36	0	18.08	18.08	18.08				
15	256QAM	36	20	18.05	18.08	18.01	20.7			
15	256QAM	36	39	18.08	18.03	18.04				
15	256QAM	75	0	18.09	18.01	18.09				
Channel				3860	3800	3850				
Frequency (MHz)				2592.5	2595	2612.5				
10	QPSK	1	0	24.63	24.61	24.42	25.7			
10	QPSK	1	25	24.61	24.55	24.41				
10	QPSK	1	49	24.67	24.63	24.43				
10	QPSK	25	0	23.74	23.59	23.62	24.7			
10	QPSK	25	12	23.75	23.69	23.51				
10	QPSK	25	24	23.74	23.68	23.51				
10	QPSK	50	0	23.75	23.61	23.53	24.7			
10	16QAM	1	0	23.81	23.68	23.52				
10	16QAM	1	25	23.72	23.64	23.51				
10	16QAM	1	49	23.79	23.68	23.47	23.7			
10	16QAM	25	0	22.74	22.69	22.63				
10	16QAM	25	12	22.76	22.72	22.58				
10	16QAM	25	20	22.74	22.67	22.48	23.7			
10	16QAM	50	0	22.78	22.65	22.56				
10	64QAM	1	0	22.97	22.39	22.32				
10	64QAM	1	25	22.54	22.43	22.31	23.7			
10	64QAM	1	49	22.50	22.39	22.30				
10	64QAM	25	0	21.81	21.67	21.61				
10	64QAM	25	12	21.83	21.75	21.63	22.7			
10	64QAM	25	20	21.82	21.78	21.60				
10	64QAM	50	0	21.78	21.66	21.67				
10	256QAM	1	0	18.09	18.72	18.78	20.7			
10	256QAM	1	25	18.05	18.59	18.58				
10	256QAM	1	49	18.09	18.52	18.48				
10	256QAM	25	0	18.08	18.59	18.91	20.7			
10	256QAM	25	12	18.04	18.83	18.86				
10	256QAM	25	24	18.01	18.76	18.82				
10	256QAM	50	0	20.01	18.84	18.88	20.7			
Channel				3925	3905	3912.5				
Frequency (MHz)				2592.5	2595	2612.5				
5	QPSK	1	0	24.58	24.53	24.37	25.7			
5	QPSK	1	14	24.54	24.49	24.35				
5	QPSK	1	24	24.59	24.52	24.33				
5	QPSK	12	0	23.88	23.64	23.64	24.7			
5	QPSK	12	7	23.72	23.64	23.50				
5	QPSK	12	13	23.71	23.66	23.49				
5	QPSK	25	0	23.72	23.65	23.45	24.7			
5	16QAM	1	0	23.72	23.67	23.62				
5	16QAM	1	12	23.75	23.68	23.50				
5	16QAM	1	24	23.75	23.68	23.52	24.7			
5	16QAM	12	0	22.67	22.60	22.46				
5	16QAM	12	7	22.72	22.66	22.47				
5	16QAM	12	13	22.67	22.62	22.45	23.7			
5	16QAM	25	0	22.73	22.68	22.52				
5	64QAM	1	0	22.51	22.44	22.25				
5	64QAM	1	12	22.54	22.44	22.30	23.7			
5	64QAM	1	24	22.54	22.49	22.28				
5	64QAM	12	0	21.78	21.71	21.53				
5	64QAM	12	7	21.77	21.70	21.55	22.7			
5	64QAM	12	13	21.76	21.70	21.51				
5	64QAM	25	0	21.79	21.70	21.55				
5	256QAM	1	0	18.07	18.77	18.81	20.7			
5	256QAM	1	12	18.04	18.63	18.56				
5	256QAM	1	24	18.72	18.55	18.49				
5	256QAM	12	0	20.00	18.99	18.97	20.7			
5	256QAM	12	7	19.07	18.95	18.93				
5	256QAM	12	13	18.99	18.80	18.77				
5	256QAM	25	0	18.98	18.87	18.82	20.7			







Band 48_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Time-up (min)
Channel				5640	5680	5720	5760	5800	
Frequency (MHz)				5640	5680	5720	5760	5800	(dBm)
20	QPSK	1	0	24.12	24.37	24.52	24.64		
20	QPSK	1	49	24.04	24.21	24.31	24.22		25.7
20	QPSK	1	99	24.05	24.25	24.24	24.44		
20	QPSK	50	0	23.22	23.42	23.53	23.47		
20	QPSK	50	24	23.10	23.40	23.48	23.54		24.7
20	QPSK	50	50	23.13	23.33	23.34	23.24		
20	QPSK	100	0	23.17	23.37	23.48	23.40		
20	16QAM	1	0	23.02	23.45	23.85	23.92		24.7
20	16QAM	1	49	23.11	23.20	23.41	23.31		
20	16QAM	1	99	23.13	23.23	23.57	23.28		
20	16QAM	50	0	23.24	23.44	23.57	23.50		23.7
20	16QAM	50	24	23.21	23.42	23.53	23.44		
20	16QAM	50	50	23.16	23.17	23.37	23.27		
20	16QAM	100	0	22.18	22.41	22.49	22.40		
20	64QAM	1	0	21.09	22.14	22.35	22.28		23.7
20	64QAM	1	49	21.85	22.07	22.17	22.08		
20	64QAM	1	99	21.92	22.08	22.07	21.95		
20	64QAM	50	0	21.26	21.47	21.57	21.50		
20	64QAM	50	24	21.22	21.44	21.52	21.42		22.7
20	64QAM	50	50	21.16	21.38	21.38	21.29		
20	64QAM	100	0	21.18	21.40	21.50	21.42		
20	256QAM	1	0	19.23	19.31	19.59	19.41		20.7
20	256QAM	1	49	19.18	19.33	19.49	19.30		
20	256QAM	1	99	19.30	19.35	19.66	19.37		
20	256QAM	50	0	19.52	19.64	19.80	19.64		20.7
20	256QAM	50	24	19.52	19.65	19.84	19.65		
20	256QAM	50	50	19.54	19.65	19.77	19.61		
20	256QAM	100	0	19.47	19.64	19.77	19.63		20.7
Channel				5820	5860	5900	5940	5980	
Frequency (MHz)				5820	5860	5900	5940	5980	(dBm)
15	QPSK	1	0	24.05	24.28	24.40	24.34		
15	QPSK	1	74	23.99	24.21	24.29	24.17		25.7
15	QPSK	36	0	23.18	23.38	23.50	23.44		
15	QPSK	36	20	23.12	23.36	23.46	23.36		24.7
15	QPSK	36	39	23.09	23.32	23.34	23.31		
15	QPSK	0	0	23.13	23.37	23.49	23.40		
15	16QAM	1	0	23.20	23.43	23.55	23.48		24.7
15	16QAM	1	37	23.15	23.28	23.41	23.31		
15	16QAM	1	74	23.20	23.35	23.45	23.37		
15	16QAM	36	0	22.14	22.37	22.48	22.37		23.7
15	16QAM	36	20	22.10	22.32	22.42	22.33		
15	16QAM	36	39	22.07	22.29	22.30	22.29		
15	16QAM	75	0	22.18	22.38	22.47	22.38		
15	64QAM	1	0	21.02	22.08	22.28	22.21		23.7
15	64QAM	1	37	21.83	22.04	22.15	22.08		
15	64QAM	1	74	21.86	22.04	22.14	22.05		
15	64QAM	36	0	21.21	21.41	21.53	21.48		22.7
15	64QAM	36	20	21.16	21.40	21.49	21.37		
15	64QAM	36	39	21.12	21.35	21.38	21.33		
15	64QAM	75	0	21.18	21.41	21.49	21.39		
15	256QAM	1	0	19.24	19.24	19.54	19.35		20.7
15	256QAM	1	37	19.09	19.24	19.41	19.25		
15	256QAM	1	74	19.24	19.49	19.58	19.39		
15	256QAM	36	0	19.47	19.58	19.71	19.63		20.7
15	256QAM	36	20	19.52	19.64	19.76	19.60		
15	256QAM	36	39	19.52	19.60	19.77	19.61		
15	256QAM	75	0	19.48	19.58	19.72	19.59		
Channel				5960	5980	5996	5996	5996	
Frequency (MHz)				5960	5980	5996	5996	5996	(dBm)
10	QPSK	0	0	23.05	24.25	24.35	24.30		
10	QPSK	1	25	23.89	24.10	24.28	24.16		25.7
10	QPSK	1	49	23.93	24.20	24.19	24.15		
10	QPSK	25	0	23.13	23.31	23.40	23.37		
10	QPSK	25	12	23.10	23.30	23.44	23.27		24.7
10	QPSK	25	24	23.00	23.26	23.33	23.25		
10	QPSK	50	0	23.08	23.32	23.45	23.31		
10	16QAM	1	0	23.18	23.37	23.52	23.40		
10	16QAM	1	26	22.94	23.18	23.31	23.22		24.7
10	16QAM	1	49	23.15	23.34	23.37	23.22		
10	16QAM	25	0	22.09	22.30	22.45	22.32		23.7
10	16QAM	25	12	22.09	22.25	22.37	22.32		
10	16QAM	25	24	22.04	22.25	22.27	22.19		
10	16QAM	50	0	22.08	22.31	22.39	22.30		
10	64QAM	1	0	21.83	22.08	22.18	22.13		23.7
10	64QAM	1	26	21.76	21.99	22.13	21.96		
10	64QAM	25	0	21.14	21.41	21.48	21.41		22.7
10	64QAM	25	12	21.15	21.33	21.42	21.35		
10	64QAM	25	24	21.12	21.34	21.30	21.25		
10	64QAM	50	0	21.14	21.38	21.44	21.51		
10	256QAM	1	0	19.21	19.25	19.59	19.34		20.7
10	256QAM	1	25	19.13	19.32	19.43	19.29		
10	256QAM	1	49	19.21	19.63	19.63	19.52		
10	256QAM	25	0	19.52	19.59	19.74	19.63		20.7
10	256QAM	25	12	19.51	19.69	19.77	19.53		
10	256QAM	25	24	19.48	19.65	19.76	19.58		
10	256QAM	50	0	19.39	19.55	19.74	19.62		
Channel				5992	5996	5996	5996	5996	
Frequency (MHz)				5992	5996	5996	5996	5996	(dBm)
5	QPSK	1	0	24.05	24.18	24.33	24.31		
5	QPSK	1	14	23.94	24.15	24.22	24.19		25.7
5	QPSK	1	24	23.93	24.14	24.25	24.19		
5	QPSK	12	0	23.09	23.29	23.45	23.40		
5	QPSK	12	7	23.04	23.23	23.35	23.28		24.7
5	QPSK	12	13	23.07	23.31	23.33	23.22		
5	QPSK	25	0	23.15	23.33	23.41	23.38		
5	16QAM	1	0	23.18	23.35	23.64	23.40		24.7
5	16QAM	1	12	22.96	23.22	23.30	23.18		
5	16QAM	1	24	23.13	23.30	23.39	23.29		
5	16QAM	12	0	22.08	22.27	22.40	22.32		23.7
5	16QAM	12	7	22.06	22.26	22.40	22.27		
5	16QAM	12	13	21.98	22.25	22.34	22.20		
5	16QAM	25	0	22.18	22.38	22.38	22.28		
5	64QAM	1	0	21.91	22.01	22.17	22.12		23.7
5	64QAM	1	12	21.74	22.01	22.05	22.06		
5	64QAM	1	24	21.80	22.13	22.08	21.91		
5	64QAM	12	0	21.15	21.33	21.40	21.41		22.7
5	64QAM	12	7	21.07	21.35	21.49	21.31		
5	64QAM	12	13	21.12	21.34	21.29	21.28		
5	64QAM	25	0	21.11	21.40	21.49	21.33		
5	256QAM	1	0	19.14	19.26	19.52	19.34		20.7
5	256QAM	1	12	19.15	19.32	19.49	19.29		
5	256QAM	1	24	19.25	19.45	19.59	19.27		
5	256QAM	12	0	19.40	19.59	19.74	19.59		20.7
5	256QAM	12	7	19.52	19.65	19.77	19.62		
5	256QAM	12	13	19.45	19.62	19.70	19.59		
5	256QAM	25	0	19.37	19.63	19.68	19.61		



Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq.			
Channel				3850	3800	3850				
Frequency (MHz)				2590	2590	2590				
20	QPSK	1	0	2342	2333	2325	20.2			
20	QPSK	1	49	2342	2336	2327				
20	QPSK	1	99	2342	2338	2329				
20	QPSK	50	0	2259	2242	2240	24.2			
20	QPSK	50	24	2255	2242	2241				
20	QPSK	50	50	2255	2242	2240				
20	QPSK	100	0	2259	2241	2242	24.2			
20	16QAM	1	0	2257	2248	2249				
20	16QAM	1	49	2252	2248	2237				
20	16QAM	1	99	2257	2247	2244	20.2			
20	16QAM	50	0	2142	2145	2144				
20	16QAM	50	24	2159	2144	2144				
20	16QAM	50	50	2150	2144	2145	20.2			
20	16QAM	100	0	2159	2144	2144				
20	64QAM	1	0	2128	2122	2122				
20	64QAM	1	49	2133	2128	2125	20.2			
20	64QAM	1	99	2137	2129	2129				
20	64QAM	50	0	2045	2044	2044				
20	64QAM	50	24	2053	2047	2045	20.2			
20	64QAM	50	50	2059	2045	2044				
20	64QAM	100	0	2050	2045	2044				
20	256QAM	1	0	1846	1838	1836	20.2			
20	256QAM	1	49	1835	1826	1827				
20	256QAM	1	99	1834	1828	1824				
20	256QAM	50	0	1871	1852	1850	20.2			
20	256QAM	50	24	1856	1851	1851				
20	256QAM	50	50	1843	1839	1833				
20	256QAM	100	0	1842	1847	1846	20.2			
Channel				3760	3800	3860				
Frequency (MHz)				2177.5	2590	2612.5				
15	QPSK	1	0	2338	2328	2321	20.2			
15	QPSK	1	49	2340	2332	2327				
15	QPSK	1	74	2334	2323	2327				
15	QPSK	36	0	2256	2236	2234	24.2			
15	QPSK	36	20	2252	2239	2239				
15	QPSK	36	39	2246	2242	2230				
15	QPSK	75	0	2249	2231	2240	24.2			
15	16QAM	1	0	2247	2245	2234				
15	16QAM	1	37	2242	2242	2237				
15	16QAM	1	74	2254	2239	2237	20.2			
15	16QAM	36	0	2159	2141	2144				
15	16QAM	36	20	2148	2137	2141				
15	16QAM	36	39	2158	2137	2139	20.2			
15	64QAM	75	0	2151	2144	2138				
15	64QAM	1	0	2125	2129	2121				
15	64QAM	1	37	2131	2123	2122	20.2			
15	64QAM	1	74	2135	2129	2125				
15	64QAM	36	0	2057	2044	2040				
15	64QAM	36	20	2061	2043	2037	20.2			
15	64QAM	36	39	2050	2045	2037				
15	64QAM	75	0	2054	2037	2039				
15	256QAM	1	0	1839	1837	1837	20.2			
15	256QAM	1	37	1831	1825	1825				
15	256QAM	1	74	1832	1823	1823				
15	256QAM	36	0	1843	1842	1846	20.2			
15	256QAM	36	20	1843	1847	1835				
15	256QAM	36	39	1853	1838	1831				
15	256QAM	75	0	1841	1847	1838	20.2			
Channel				3760	3800	3860				
Frequency (MHz)				2592	2590	2592.5				
10	QPSK	1	0	2338	2327	2321	20.2			
10	QPSK	1	25	2334	2334	2327				
10	QPSK	1	49	2331	2328	2324				
10	QPSK	25	0	2255	2241	2236	24.2			
10	QPSK	25	12	2253	2239	2233				
10	QPSK	25	24	2253	2239	2233				
10	QPSK	50	0	2251	2236	2236	24.2			
10	16QAM	1	0	2247	2238	2231				
10	16QAM	1	26	2244	2239	2237				
10	16QAM	1	49	2254	2246	2234	20.2			
10	16QAM	25	0	2159	2143	2142				
10	16QAM	25	12	2155	2135	2134				
10	16QAM	25	26	2153	2144	2144	20.2			
10	16QAM	50	0	2152	2145	2142				
10	64QAM	1	0	2127	2122	2122				
10	64QAM	1	26	2127	2122	2122	20.2			
10	64QAM	1	49	2133	2121	2123				
10	64QAM	25	0	2062	2041	2035				
10	64QAM	25	12	2058	2042	2035	20.2			
10	64QAM	25	26	2055	2042	2038				
10	64QAM	50	0	2055	2036	2037				
10	256QAM	1	0	1839	1831	1832	20.2			
10	256QAM	1	25	1838	1824	1821				
10	256QAM	1	49	1831	1824	1822				
10	256QAM	25	0	1844	1842	1846	20.2			
10	256QAM	25	12	1844	1843	1835				
10	256QAM	25	26	1836	1835	1824				
10	256QAM	50	0	1838	1841	1845	20.2			
Channel				3760	3800	3860				
Frequency (MHz)				2592.5	2590	2592.5				
5	QPSK	1	0	2339	2324	2325	20.2			
5	QPSK	1	14	2341	2329	2329				
5	QPSK	1	24	2332	2321	2321				
5	QPSK	12	0	2256	2234	2231	24.2			
5	QPSK	12	7	2248	2235	2235				
5	QPSK	12	13	2245	2232	2238				
5	QPSK	25	0	2253	2241	2237	24.2			
5	16QAM	1	0	2247	2242	2238				
5	16QAM	1	12	2244	2244	2238				
5	16QAM	1	24	2254	2245	2239	20.2			
5	16QAM	12	0	2154	2143	2137				
5	16QAM	12	7	2159	2138	2144				
5	16QAM	12	13	2159	2143	2135	20.2			
5	16QAM	25	0	2159	2140	2134				
5	64QAM	1	0	2130	2129	2122				
5	64QAM	1	12	2131	2123	2123	20.2			
5	64QAM	1	24	2130	2123	2121				
5	64QAM	12	0	2054	2035	2038				
5	64QAM	12	7	2056	2037	2035	20.2			
5	64QAM	12	13	2053	2046	2038				
5	64QAM	25	0	2040	2035	2042				
5	256QAM	1	0	1845	1837	1834	20.2			
5	256QAM	1	12	1838	1824	1827				
5	256QAM	1	24	1838	1820	1822				
5	256QAM	12	0	1843	1851	1846	20.2			
5	256QAM	12	7	1843	1842	1842				
5	256QAM	12	13	1836	1839	1827				
5	256QAM	25	0	1832	1829	1846	20.2			







Band 48_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Time-up limit (sec)	
Channel				5630	5680	5730	5860		
Frequency (MHz)				5630	5680	5730	5860		
20	QPSK	1	0	24.39	24.55	24.82	24.85	25.7	
20	QPSK	1	49	24.27	24.36	24.48	24.47		
20	QPSK	1	99	24.31	24.34	24.42	24.47		
20	QPSK	50	0	23.47	23.57	23.80	23.81	24.7	
20	QPSK	50	24	23.46	23.54	23.65	23.66		
20	QPSK	50	50	23.40	23.47	23.54	23.57		
20	QPSK	100	0	23.43	23.52	23.52	23.54	24.7	
20	16QAM	1	0	23.58	23.67	23.75	23.76		
20	16QAM	1	49	23.37	23.44	23.52	23.55		
20	16QAM	1	99	23.39	23.45	23.54	23.57	23.7	
20	16QAM	50	0	23.35	23.39	23.51	23.52		
20	16QAM	50	24	23.47	23.55	23.57	23.67		
20	16QAM	50	50	22.43	22.45	22.56	22.56	23.7	
20	16QAM	100	0	22.43	22.54	22.55	22.64		
20	64QAM	1	0	22.25	22.38	22.43	22.43		
20	64QAM	1	49	22.12	22.20	22.29	22.32	23.7	
20	64QAM	1	99	22.12	22.19	22.31	22.32		
20	64QAM	50	0	21.46	21.49	21.61	21.64		
20	64QAM	50	24	21.40	21.53	21.57	21.65	22.7	
20	64QAM	50	50	21.42	21.49	21.59	21.59		
20	64QAM	100	0	21.47	21.54	21.53	21.62		
20	256QAM	1	0	18.91	19.16	19.32	19.33	20.7	
20	256QAM	1	49	18.81	19.04	19.11	19.31		
20	256QAM	1	99	19.17	19.38	19.34	19.58		
20	256QAM	50	0	19.17	19.38	19.34	19.58	20.7	
20	256QAM	50	24	19.16	19.38	19.38	19.58		
20	256QAM	50	50	19.21	19.38	19.40	19.61		
20	256QAM	100	0	19.13	19.34	19.36	19.61		
Channel				5870	5920	5970	6090	Time-up limit (sec)	
Frequency (MHz)				5870	5920	5970	6090		
15	QPSK	1	0	24.36	24.44	24.53	24.57	25.7	
15	QPSK	1	49	24.24	24.33	24.42	24.43		
15	QPSK	1	99	24.28	24.33	24.42	24.41		
15	QPSK	36	0	23.44	23.52	23.55	23.57	24.7	
15	QPSK	36	20	23.39	23.49	23.57	23.58		
15	QPSK	36	39	23.37	23.43	23.54	23.58		
15	QPSK	75	0	23.42	23.50	23.51	23.52	24.7	
15	16QAM	1	0	23.48	23.57	23.63	23.67		
15	16QAM	1	37	23.37	23.44	23.52	23.54		
15	16QAM	1	74	23.44	23.49	23.59	23.64	23.7	
15	16QAM	36	0	22.41	22.50	22.52	22.55		
15	16QAM	36	20	22.37	22.44	22.54	22.55		
15	16QAM	36	39	22.34	22.40	22.50	22.52	23.7	
15	16QAM	75	0	22.42	22.50	22.51	22.58		
15	64QAM	1	0	22.29	22.31	22.32	22.38		
15	64QAM	1	37	22.09	22.16	22.28	22.31	23.7	
15	64QAM	1	74	22.16	22.26	22.35	22.36		
15	64QAM	36	0	21.45	21.55	21.57	21.61		
15	64QAM	36	20	21.40	21.49	21.59	21.54	22.7	
15	64QAM	36	39	21.40	21.49	21.52	21.58		
15	64QAM	75	0	21.43	21.50	21.54	21.55		
15	256QAM	1	0	18.88	19.10	19.15	19.25	20.7	
15	256QAM	1	37	18.77	19.04	19.10	19.25		
15	256QAM	1	74	18.97	19.15	19.24	19.40		
15	256QAM	36	0	19.13	19.30	19.31	19.45	20.7	
15	256QAM	36	20	19.14	19.38	19.32	19.85		
15	256QAM	36	39	19.11	19.35	19.46	19.84		
15	256QAM	75	0	19.14	19.24	19.39	19.39		
Channel				5930	5980	6030	6090	Time-up limit (sec)	
Frequency (MHz)				5930	5980	6030	6090		
10	QPSK	1	0	24.34	24.37	24.50	24.57	25.7	
10	QPSK	1	25	24.34	24.29	24.34	24.39		
10	QPSK	1	49	24.35	24.24	24.42	24.43		
10	QPSK	25	0	23.41	23.44	23.83	23.48	24.7	
10	QPSK	25	12	23.36	23.39	23.83	23.47		
10	QPSK	25	24	23.38	23.39	23.83	23.43		
10	QPSK	50	0	23.32	23.43	23.44	23.63	24.7	
10	16QAM	1	0	23.30	23.37	23.58	23.66		
10	16QAM	1	25	23.19	23.34	23.37	23.48		
10	16QAM	1	49	23.39	23.47	23.49	23.54	23.7	
10	16QAM	25	0	22.38	22.44	22.48	22.55		
10	16QAM	25	12	22.35	22.35	22.49	22.40		
10	16QAM	25	24	22.34	22.39	22.48	22.50	23.7	
10	16QAM	50	0	22.41	22.51	22.49	22.48		
10	64QAM	1	0	22.11	22.26	22.28	22.30		
10	64QAM	1	25	21.35	21.47	21.48	21.58	22.7	
10	64QAM	25	12	21.31	21.43	21.52	21.43		
10	64QAM	25	24	21.37	21.38	21.55	21.58		
10	64QAM	50	0	21.36	21.46	21.49	21.48	20.7	
10	256QAM	1	0	19.88	19.12	19.32	19.38		
10	256QAM	1	25	19.73	19.11	19.09	19.23		
10	256QAM	1	49	19.88	19.10	19.25	19.30	20.7	
10	256QAM	25	0	19.14	19.31	19.31	19.51		
10	256QAM	25	12	19.15	19.28	19.38	19.80		
10	256QAM	25	24	19.14	19.28	19.46	19.83	20.7	
10	256QAM	50	0	19.07	19.29	19.32	19.61		
10	256QAM	50	12	19.10	19.26	19.32	19.73		
Channel				5990	6040	6090	6150	Time-up limit (sec)	
Frequency (MHz)				5990	6040	6090	6150		
5	QPSK	1	0	24.34	24.42	24.53	24.61	25.7	
5	QPSK	1	14	24.22	24.23	24.42	24.47		
5	QPSK	1	24	24.29	24.36	24.44	24.55		
5	QPSK	12	0	23.41	23.59	23.65	23.67	24.7	
5	QPSK	12	7	23.38	23.47	23.55	23.61		
5	QPSK	12	13	23.42	23.45	23.59	23.63		
5	QPSK	25	0	23.40	23.49	23.58	23.65	24.7	
5	16QAM	1	0	23.47	23.57	23.65	23.75		
5	16QAM	1	12	23.45	23.63	23.60	23.67		
5	16QAM	1	24	23.50	23.57	23.65	23.69	23.7	
5	16QAM	12	0	22.39	22.48	22.59	22.63		
5	16QAM	12	7	22.36	22.46	22.54	22.64		
5	16QAM	12	13	22.37	22.47	22.51	22.64	23.7	
5	16QAM	25	0	22.44	22.53	22.62	22.68		
5	64QAM	1	0	22.30	22.38	22.41	22.44		
5	64QAM	1	12	22.12	22.21	22.32	22.38	22.7	
5	64QAM	1	24	22.18	22.28	22.41	22.47		
5	64QAM	12	0	21.48	21.54	21.60	21.71		
5	64QAM	12	7	21.44	21.49	21.62	21.65	22.7	
5	64QAM	12	13	21.43	21.47	21.50	21.62		
5	64QAM	25	0	21.47	21.52	21.61	21.71		
5	256QAM	1	0	19.90	19.14	19.11	19.24	20.7	
5	256QAM	1	12	19.71	19.03	19.09	19.23		
5	256QAM	1	24	19.89	19.14	19.30	19.37		
5	256QAM	12	0	19.10	19.29	19.24	19.61	20.7	
5	256QAM	12	7	19.15	19.31	19.39	19.61		
5	256QAM	12	13	19.13	19.36	19.43	19.64		
5	256QAM	25	0	19.11	19.26	19.33	19.58		





Band 38_Ant 2										
BW (MHz)	Modulation	RB Start	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq			
Channel				3850	3800	3850				
Frequency (MHz)				2595	2595	2595				
20	QPSK	1	0	24.68	24.63	24.52	25.7			
20	QPSK	1	49	24.69	24.64	24.52				
20	QPSK	1	99	24.68	24.64	24.52				
20	QPSK	50	0	23.87	23.70	23.69	24.7			
20	QPSK	50	24	23.86	23.72	23.69				
20	QPSK	50	50	23.87	23.70	23.69				
20	QPSK	100	0	23.88	23.71	23.69	24.7			
20	16QAM	1	0	23.81	23.74	23.67				
20	16QAM	1	49	23.79	23.72	23.61				
20	16QAM	1	99	23.81	23.69	23.61	23.7			
20	16QAM	50	0	22.91	22.76	22.73				
20	16QAM	50	24	22.90	22.75	22.70				
20	16QAM	50	50	22.90	22.72	22.68	23.7			
20	16QAM	100	0	22.89	22.74	22.70				
20	64QAM	1	0	23.57	22.41	22.42				
20	64QAM	1	49	23.53	22.46	22.38	23.7			
20	64QAM	1	99	23.58	22.39	22.42				
20	64QAM	50	0	22.49	21.78	21.79				
20	64QAM	50	24	22.05	21.77	21.70	23.7			
20	64QAM	50	50	22.62	21.74	21.70				
20	64QAM	100	0	22.70	21.74	21.70				
20	256QAM	1	0	18.77	18.78	18.81	20.7			
20	256QAM	1	49	18.70	18.68	18.59				
20	256QAM	1	99	18.73	18.67	18.64				
20	256QAM	50	0	20.07	18.96	18.97	20.7			
20	256QAM	50	24	20.02	18.92	18.91				
20	256QAM	50	50	20.01	18.83	18.87				
20	256QAM	100	0	20.03	18.92	18.91	20.7			
Channel				3760	3800	3850				
Frequency (MHz)				2377.5	2395	2422.5				
15	QPSK	1	0	24.60	24.52	24.49	25.7			
15	QPSK	1	49	24.63	24.52	24.49				
15	QPSK	1	74	24.59	24.52	24.38				
15	QPSK	36	0	23.77	23.63	23.58	24.7			
15	QPSK	36	20	23.80	23.74	23.58				
15	QPSK	36	39	23.75	23.61	23.58				
15	QPSK	75	0	23.78	23.63	23.58	24.7			
15	16QAM	1	0	23.78	23.68	23.58				
15	16QAM	1	74	23.74	23.63	23.54				
15	16QAM	36	0	22.76	22.64	22.55	23.7			
15	16QAM	36	20	22.74	22.68	22.54				
15	16QAM	36	39	22.74	22.58	22.54				
15	64QAM	75	0	22.79	22.65	22.60	23.7			
15	64QAM	1	0	22.90	22.56	22.50				
15	64QAM	1	37	22.44	22.37	22.23				
15	64QAM	1	74	22.44	22.36	22.26	23.7			
15	64QAM	36	0	21.82	21.67	21.61				
15	64QAM	36	20	21.80	21.73	21.61				
15	64QAM	36	39	21.81	21.65	21.58	22.7			
15	64QAM	75	0	21.81	21.65	21.61				
15	256QAM	1	0	18.75	18.75	18.75				
15	256QAM	1	37	18.07	18.05	18.05	20.7			
15	256QAM	1	74	18.72	18.55	18.49				
15	256QAM	36	0	18.08	18.08	18.08				
15	256QAM	36	20	18.05	18.08	18.01	20.7			
15	256QAM	36	39	18.08	18.83	18.84				
15	256QAM	75	0	18.09	18.91	18.90				
Channel				3760	3800	3850				
Frequency (MHz)				2592.5	2595	2602.5				
10	QPSK	1	0	24.63	24.61	24.42	25.7			
10	QPSK	1	25	24.61	24.55	24.41				
10	QPSK	1	49	24.67	24.63	24.43				
10	QPSK	25	0	23.74	23.59	23.62	24.7			
10	QPSK	25	12	23.75	23.69	23.61				
10	QPSK	25	24	23.74	23.69	23.61				
10	QPSK	50	0	23.75	23.61	23.53	24.7			
10	16QAM	1	0	23.81	23.68	23.62				
10	16QAM	1	25	23.72	23.64	23.51				
10	16QAM	1	49	23.79	23.68	23.47	23.7			
10	16QAM	25	0	22.74	22.69	22.63				
10	16QAM	25	12	22.76	22.72	22.58				
10	16QAM	25	20	22.74	22.67	22.48	23.7			
10	16QAM	50	0	22.76	22.65	22.56				
10	64QAM	1	0	22.97	22.39	22.32				
10	64QAM	1	49	22.94	22.43	22.31	23.7			
10	64QAM	25	0	21.81	21.67	21.61				
10	64QAM	25	12	21.83	21.75	21.63				
10	64QAM	25	20	21.82	21.78	21.60	22.7			
10	64QAM	50	0	21.76	21.66	21.67				
10	256QAM	1	0	18.09	18.72	18.78				
10	256QAM	1	25	18.05	18.59	18.58	20.7			
10	256QAM	1	49	18.09	18.52	18.48				
10	256QAM	25	0	18.08	18.59	18.91				
10	256QAM	25	12	18.04	18.83	18.86	20.7			
10	256QAM	25	24	18.01	18.76	18.82				
10	256QAM	50	0	20.01	18.84	18.88				
Channel				2592.5	2595	2602.5				
Frequency (MHz)				2447.5	2445	2443				
5	QPSK	1	0	24.58	24.53	24.37	25.7			
5	QPSK	1	14	24.54	24.49	24.35				
5	QPSK	1	24	24.59	24.52	24.33				
5	QPSK	12	0	23.68	23.49	23.44	24.7			
5	QPSK	12	7	23.72	23.64	23.50				
5	QPSK	12	13	23.71	23.66	23.49				
5	QPSK	25	0	23.72	23.65	23.45	24.7			
5	16QAM	1	0	23.72	23.67	23.62				
5	16QAM	1	12	23.75	23.68	23.50				
5	16QAM	1	24	23.75	23.68	23.52	24.7			
5	16QAM	12	0	22.67	22.60	22.46				
5	16QAM	12	7	22.72	22.66	22.47				
5	16QAM	12	13	22.67	22.62	22.45	23.7			
5	16QAM	25	0	22.73	22.68	22.52				
5	64QAM	1	0	22.51	22.44	22.25				
5	64QAM	1	12	22.54	22.44	22.30	23.7			
5	64QAM	1	24	22.54	22.49	22.28				
5	64QAM	12	0	21.76	21.71	21.53				
5	64QAM	12	7	21.77	21.70	21.55	22.7			
5	64QAM	12	13	21.76	21.70	21.51				
5	64QAM	25	0	21.79	21.70	21.55				
5	256QAM	1	0	18.67	18.77	18.81	20.7			
5	256QAM	1	12	18.64	18.63	18.56				
5	256QAM	1	24	18.72	18.55	18.49				
5	256QAM	12	0	20.00	18.96	18.97	20.7			
5	256QAM	12	7	19.97	18.95	18.93				
5	256QAM	12	13	18.99	18.80	18.77				
5	256QAM	25	0	18.96	18.87	18.82	20.7			







Band 48_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Time-up time (sec)	
Channel				5640	5680	5720	5760		
Frequency (MHz)				5640	5680	5720	5760		
20	QPSK	1	0	24.12	24.37	24.52	24.44	25.7	
20	QPSK	1	49	24.04	24.21	24.31	24.22		
20	QPSK	1	99	24.05	24.23	24.24	24.14		
20	QPSK	50	0	23.22	23.42	23.53	23.47		
20	QPSK	50	24	23.10	23.40	23.48	23.42	24.7	
20	QPSK	50	50	23.13	23.33	23.34	23.24		
20	QPSK	100	0	23.17	23.37	23.48	23.40		
20	16QAM	1	0	23.02	23.45	23.85	23.52		
20	16QAM	1	49	23.11	23.20	23.41	23.31	24.7	
20	16QAM	1	99	23.13	23.23	23.57	23.28		
20	16QAM	50	0	23.24	23.44	23.57	23.50		
20	16QAM	50	24	23.21	23.42	23.53	23.44		
20	16QAM	50	50	22.76	23.17	23.21	23.07	23.7	
20	16QAM	100	0	22.18	22.41	22.49	22.40		
20	64QAM	1	0	21.09	22.14	22.35	22.28		
20	64QAM	1	49	21.85	22.07	22.17	22.08		
20	64QAM	1	99	21.92	22.08	22.07	21.95	23.7	
20	64QAM	50	0	21.26	21.47	21.57	21.50		
20	64QAM	50	24	21.22	21.44	21.52	21.42		
20	64QAM	50	50	21.16	21.38	21.38	21.29		
20	64QAM	100	0	21.18	21.40	21.50	21.42	22.7	
20	256QAM	1	0	19.23	19.31	19.59	19.41		
20	256QAM	1	49	19.18	19.33	19.49	19.30		
20	256QAM	1	99	19.30	19.36	19.56	19.37		
20	256QAM	50	0	19.52	19.64	19.80	19.64	20.7	
20	256QAM	50	24	19.52	19.65	19.84	19.65		
20	256QAM	50	50	19.54	19.65	19.77	19.61		
20	256QAM	100	0	19.47	19.64	19.77	19.63		
Channel				5840	5880	5920	5960		
Frequency (MHz)				5840	5880	5920	5960		
15	QPSK	1	0	24.05	24.28	24.40	24.34	25.7	
15	QPSK	1	49	24.07	24.20	24.30	24.20		
15	QPSK	1	74	23.99	24.21	24.29	24.17		
15	QPSK	36	0	23.16	23.36	23.50	23.44		
15	QPSK	36	20	23.12	23.36	23.46	23.36	24.7	
15	QPSK	36	39	23.09	23.32	23.34	23.31		
15	QPSK	0	0	23.13	23.37	23.49	23.40		
15	16QAM	1	0	23.20	23.43	23.55	23.48		
15	16QAM	1	37	23.05	23.24	23.34	23.24	24.7	
15	16QAM	1	74	23.20	23.35	23.45	23.31		
15	16QAM	36	0	22.14	22.37	22.48	22.37		
15	16QAM	36	20	22.10	22.32	22.42	22.33		
15	16QAM	36	39	22.07	22.29	22.30	22.20	23.7	
15	16QAM	75	0	22.18	22.38	22.47	22.38		
15	64QAM	1	0	21.02	22.08	22.28	22.21		
15	64QAM	1	37	21.83	22.04	22.15	22.08		
15	64QAM	1	74	21.86	22.04	22.14	22.05	23.7	
15	64QAM	36	0	21.21	21.41	21.53	21.48		
15	64QAM	36	20	21.16	21.40	21.49	21.37		
15	64QAM	36	39	21.12	21.35	21.38	21.33		
15	64QAM	75	0	21.18	21.41	21.49	21.39	22.7	
15	256QAM	1	0	19.24	19.24	19.51	19.32		
15	256QAM	1	37	19.09	19.24	19.41	19.25		
15	256QAM	1	74	19.24	19.49	19.58	19.39		
15	256QAM	36	0	19.47	19.58	19.71	19.63	20.7	
15	256QAM	36	20	19.52	19.64	19.76	19.60		
15	256QAM	36	39	19.52	19.60	19.77	19.61		
15	256QAM	75	0	19.46	19.56	19.72	19.58		
Channel				5640	5680	5720	5760		
Frequency (MHz)				5640	5680	5720	5760		
10	QPSK	0	0	23.05	24.25	24.35	24.30	25.7	
10	QPSK	1	25	23.89	24.10	24.28	24.16		
10	QPSK	1	49	23.93	24.20	24.19	24.15		
10	QPSK	25	0	23.13	23.31	23.40	23.37		
10	QPSK	25	12	23.10	23.30	23.44	23.27	24.7	
10	QPSK	25	24	23.00	23.26	23.33	23.25		
10	QPSK	50	0	23.06	23.32	23.45	23.31		
10	16QAM	1	0	23.16	23.37	23.52	23.40		
10	16QAM	1	26	22.94	23.18	23.31	23.22	24.7	
10	16QAM	1	49	23.15	23.34	23.37	23.22		
10	16QAM	25	0	22.09	22.30	22.45	22.32		
10	16QAM	25	12	22.09	22.25	22.37	22.32		
10	16QAM	25	24	22.04	22.25	22.27	22.19	23.7	
10	16QAM	50	0	22.08	22.31	22.39	22.30		
10	64QAM	1	0	21.83	22.08	22.18	22.13		
10	64QAM	1	26	21.76	21.99	22.13	21.96		
10	64QAM	1	49	21.83	22.09	22.10	21.97	23.7	
10	64QAM	25	0	21.14	21.41	21.48	21.41		
10	64QAM	25	12	21.15	21.33	21.42	21.35		
10	64QAM	25	24	21.12	21.34	21.30	21.25		
10	64QAM	50	0	21.14	21.36	21.44	21.31	22.7	
10	256QAM	1	0	19.21	19.25	19.59	19.34		
10	256QAM	1	25	19.13	19.32	19.43	19.29		
10	256QAM	1	49	19.21	19.31	19.53	19.32		
10	256QAM	25	0	19.52	19.59	19.74	19.63	20.7	
10	256QAM	25	12	19.51	19.69	19.77	19.53		
10	256QAM	25	24	19.46	19.65	19.76	19.58		
10	256QAM	50	0	19.39	19.55	19.74	19.62		
Channel				5840	5880	5920	5960		
Frequency (MHz)				5840	5880	5920	5960		
5	QPSK	1	0	24.05	24.18	24.33	24.31	25.7	
5	QPSK	1	14	23.94	24.15	24.22	24.18		
5	QPSK	1	24	23.93	24.14	24.25	24.19		
5	QPSK	12	0	23.09	23.26	23.45	23.40		
5	QPSK	12	7	23.04	23.23	23.35	23.32	24.7	
5	QPSK	12	13	23.07	23.31	23.33	23.22		
5	QPSK	25	0	23.15	23.33	23.41	23.38		
5	16QAM	1	0	23.18	23.35	23.64	23.40		
5	16QAM	1	12	22.96	23.22	23.30	23.18	24.7	
5	16QAM	1	24	23.13	23.30	23.39	23.29		
5	16QAM	12	0	22.08	22.27	22.40	22.32		
5	16QAM	12	7	22.06	22.26	22.43	22.27		
5	16QAM	12	13	21.98	22.25	22.34	22.20	23.7	
5	16QAM	25	0	22.18	22.38	22.38	22.28		
5	64QAM	1	0	21.91	22.01	22.17	22.12		
5	64QAM	1	12	21.74	22.01	22.05	22.06		
5	64QAM	1	24	21.80	22.13	22.08	21.91	23.7	
5	64QAM	12	0	21.15	21.31	21.40	21.41		
5	64QAM	12	7	21.07	21.35	21.49	21.31		
5	64QAM	12	13	21.12	21.34	21.20	21.08		
5	64QAM	25	0	21.11	21.40	21.49	21.33	20.7	
5	256QAM	1	0	19.14	19.26	19.52	19.34		
5	256QAM	1	12	19.15	19.32	19.49	19.29		
5	256QAM	1	24	19.25	19.45	19.59	19.27		
5	256QAM	12	0	19.50	19.59	19.74	19.59	20.7	
5	256QAM	12	7	19.52	19.65	19.77	19.62		
5	256QAM	12	13	19.45	19.62	19.70	19.59		
5	256QAM	25	0	19.37	19.61	19.68	19.61		



Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq			
Channel				3850	3800	3850				
Frequency (MHz)				2590	2590	2590				
20	QPSK	1	0	2342	2333	2325	20.2			
20	QPSK	1	49	2342	2336	2327				
20	QPSK	1	99	2342	2338	2329				
20	QPSK	50	0	2259	2242	2240	24.2			
20	QPSK	50	24	2255	2242	2241				
20	QPSK	50	50	2255	2242	2240				
20	QPSK	100	0	2259	2241	2242	24.2			
20	16QAM	1	0	2257	2248	2249				
20	16QAM	1	49	2252	2248	2237				
20	16QAM	1	99	2257	2247	2244	20.2			
20	16QAM	50	0	2142	2145	2144				
20	16QAM	50	24	2159	2144	2144				
20	16QAM	50	50	2150	2144	2145	20.2			
20	16QAM	100	0	2159	2144	2144				
20	8QAM	1	0	2128	2122	2122				
20	8QAM	1	49	2133	2128	2125	20.2			
20	8QAM	1	99	2137	2128	2129				
20	8QAM	50	0	2045	2044	2044				
20	8QAM	50	24	2053	2047	2045	20.2			
20	8QAM	50	50	2059	2045	2044				
20	8QAM	100	0	2050	2045	2044				
20	256QAM	1	0	1846	1838	1836	20.2			
20	256QAM	1	49	1835	1826	1827				
20	256QAM	1	99	1834	1828	1824				
20	256QAM	50	0	1871	1852	1850	20.2			
20	256QAM	50	24	1856	1851	1851				
20	256QAM	50	50	1843	1839	1833				
20	256QAM	100	0	1842	1847	1846	20.2			
Channel				3850	3800	3850				
Frequency (MHz)				2177.5	2169	2172.5				
15	QPSK	1	0	2138	2128	2121	20.2			
15	QPSK	1	49	2140	2134	2127				
15	QPSK	1	74	2134	2123	2127				
15	QPSK	36	0	2256	2236	2234	24.2			
15	QPSK	36	20	2252	2239	2239				
15	QPSK	36	39	2246	2242	2230				
15	QPSK	75	0	2249	2231	2240	24.2			
15	16QAM	1	0	2247	2245	2234				
15	16QAM	1	37	2242	2242	2237				
15	16QAM	1	74	2254	2239	2237	20.2			
15	16QAM	36	0	2159	2141	2144				
15	16QAM	36	20	2148	2137	2141				
15	16QAM	36	39	2158	2137	2139	20.2			
15	8QAM	75	0	2151	2144	2138				
15	8QAM	1	0	2125	2123	2121				
15	8QAM	1	37	2131	2123	2122	20.2			
15	8QAM	1	74	2132	2126	2123				
15	8QAM	36	0	2057	2044	2040				
15	8QAM	36	20	2061	2043	2037	20.2			
15	8QAM	36	39	2059	2045	2037				
15	8QAM	75	0	2054	2037	2039				
15	256QAM	1	0	1837	1837	1837	20.2			
15	256QAM	1	37	1831	1825	1825				
15	256QAM	1	74	1832	1823	1823				
15	256QAM	36	0	1843	1842	1846	20.2			
15	256QAM	36	20	1843	1847	1845				
15	256QAM	36	39	1853	1838	1831				
15	256QAM	75	0	1841	1847	1838	20.2			
Channel				3850	3800	3850				
Frequency (MHz)				2592	2592	2592				
10	QPSK	1	0	2338	2327	2321	20.2			
10	QPSK	1	25	2334	2334	2327				
10	QPSK	1	49	2331	2328	2334				
10	QPSK	25	0	2255	2241	2236	24.2			
10	QPSK	25	12	2253	2239	2233				
10	QPSK	25	24	2253	2239	2233				
10	QPSK	50	0	2251	2236	2236	24.2			
10	16QAM	1	0	2247	2238	2231				
10	16QAM	1	26	2244	2239	2237				
10	16QAM	1	49	2254	2246	2234	20.2			
10	16QAM	25	0	2159	2143	2142				
10	16QAM	25	12	2155	2139	2134				
10	16QAM	25	26	2153	2144	2144	20.2			
10	16QAM	50	0	2152	2145	2142				
10	8QAM	1	0	2127	2122	2122				
10	8QAM	1	26	2127	2122	2122	20.2			
10	8QAM	1	49	2133	2121	2123				
10	8QAM	25	0	2062	2041	2039				
10	8QAM	25	12	2058	2042	2035	20.2			
10	8QAM	25	26	2055	2042	2038				
10	8QAM	50	0	2055	2036	2037				
10	256QAM	1	0	1839	1831	1832	20.2			
10	256QAM	1	25	1838	1824	1821				
10	256QAM	1	49	1831	1824	1822				
10	256QAM	25	0	1844	1842	1846	20.2			
10	256QAM	25	12	1844	1843	1835				
10	256QAM	25	26	1836	1830	1824				
10	256QAM	50	0	1838	1841	1845	20.2			
Channel				3850	3800	3850				
Frequency (MHz)				2592.5	2592	2592.5				
5	QPSK	1	0	2339	2324	2325	20.2			
5	QPSK	1	14	2341	2328	2329				
5	QPSK	1	24	2332	2321	2321				
5	QPSK	12	0	2256	2234	2231	24.2			
5	QPSK	12	7	2248	2235	2235				
5	QPSK	12	13	2245	2232	2238				
5	QPSK	25	0	2253	2241	2237	24.2			
5	16QAM	1	0	2247	2242	2238				
5	16QAM	1	12	2244	2244	2238				
5	16QAM	1	24	2254	2245	2239	20.2			
5	16QAM	12	0	2154	2143	2137				
5	16QAM	12	7	2159	2139	2144				
5	16QAM	12	13	2159	2143	2139	20.2			
5	16QAM	25	0	2159	2140	2134				
5	8QAM	1	0	2130	2129	2122				
5	8QAM	1	12	2131	2123	2123	20.2			
5	8QAM	1	24	2130	2123	2121				
5	8QAM	12	0	2054	2035	2038				
5	8QAM	12	7	2056	2037	2035	20.2			
5	8QAM	12	13	2053	2046	2038				
5	8QAM	25	0	2040	2035	2042				
5	256QAM	1	0	1845	1837	1834	20.2			
5	256QAM	1	12	1838	1824	1827				
5	256QAM	1	24	1838	1820	1822				
5	256QAM	12	0	1843	1841	1846	20.2			
5	256QAM	12	7	1843	1842	1842				
5	256QAM	12	13	1836	1839	1827				
5	256QAM	25	0	1832	1829	1846	20.2			







Band 48_Ant 2											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Ch / Freq	Take-up (dBm)			
Channel				5640	5680	5690	5660	(dBm)			
Frequency (MHz)				5650	5690	5681	5660				
20	QPSK	1	0	24.39	24.55	24.82	24.85	25.7			
20	QPSK	1	49	24.27	24.36	24.48	24.47				
20	QPSK	1	99	24.31	24.34	24.42	24.47				
20	QPSK	50	0	23.47	23.57	23.80	23.81	24.7			
20	QPSK	50	24	23.46	23.54	23.65	23.66				
20	QPSK	50	50	23.40	23.47	23.54	23.57				
20	QPSK	100	0	23.43	23.52	23.52	23.54	24.7			
20	16QAM	1	0	23.58	23.67	23.72	23.76				
20	16QAM	1	49	23.37	23.44	23.52	23.55				
20	16QAM	1	99	23.39	23.45	23.54	23.57	23.7			
20	16QAM	50	0	23.39	23.59	23.81	23.82				
20	16QAM	50	24	23.47	23.55	23.57	23.67				
20	16QAM	50	50	22.43	22.46	22.56	22.56	23.7			
20	16QAM	100	0	22.43	22.54	22.55	22.64				
20	64QAM	1	0	22.25	22.38	22.43	22.43				
20	64QAM	1	49	22.12	22.20	22.29	22.29	23.7			
20	64QAM	1	99	22.12	22.19	22.31	22.32				
20	64QAM	50	0	21.49	21.59	21.61	21.64				
20	64QAM	50	24	21.49	21.53	21.57	21.65	22.7			
20	64QAM	50	50	21.42	21.49	21.59	21.59				
20	64QAM	100	0	21.47	21.54	21.53	21.62				
20	256QAM	1	0	18.91	18.16	18.12	18.33	20.7			
20	256QAM	1	49	18.81	18.04	18.11	18.31				
20	256QAM	1	99	18.91	18.16	18.21	18.42				
20	256QAM	50	0	18.17	18.38	18.34	18.58	20.7			
20	256QAM	50	24	18.16	18.35	18.35	18.59				
20	256QAM	50	50	18.21	18.35	18.40	18.61				
20	256QAM	100	0	18.13	18.34	18.36	18.61	20.7			
Channel				5650	5690	5681	5660				
Frequency (MHz)				567.5	5690	5682	5662.5				
15	QPSK	1	0	24.36	24.44	24.53	24.57	25.7			
15	QPSK	1	49	24.24	24.33	24.42	24.43				
15	QPSK	1	99	24.28	24.33	24.42	24.41				
15	QPSK	36	0	23.44	23.52	23.55	23.57	24.7			
15	QPSK	36	20	23.39	23.49	23.57	23.58				
15	QPSK	36	39	23.37	23.43	23.54	23.58				
15	QPSK	75	0	23.42	23.50	23.61	23.62	24.7			
15	16QAM	1	0	23.48	23.57	23.63	23.67				
15	16QAM	1	37	23.37	23.44	23.52	23.54				
15	16QAM	1	74	23.44	23.49	23.59	23.64	23.7			
15	16QAM	36	0	22.41	22.50	22.52	22.55				
15	16QAM	36	20	22.37	22.44	22.54	22.52				
15	16QAM	36	39	22.34	22.40	22.50	22.52	23.7			
15	16QAM	75	0	22.42	22.57	22.51	22.58				
15	64QAM	1	0	22.29	22.31	22.32	22.38				
15	64QAM	1	37	22.09	22.16	22.28	22.31	23.7			
15	64QAM	1	74	22.16	22.26	22.35	22.36				
15	64QAM	36	0	21.45	21.55	21.57	21.61				
15	64QAM	36	20	21.40	21.49	21.59	21.54	22.7			
15	64QAM	36	39	21.40	21.45	21.52	21.58				
15	64QAM	75	0	21.43	21.50	21.54	21.55				
15	256QAM	1	0	18.88	18.15	18.15	18.35	20.7			
15	256QAM	1	37	18.77	18.04	18.10	18.32				
15	256QAM	1	74	18.97	18.15	18.24	18.40				
15	256QAM	36	0	18.13	18.35	18.31	18.62	20.7			
15	256QAM	36	20	18.14	18.38	18.32	18.62				
15	256QAM	36	39	18.11	18.35	18.46	18.64				
15	256QAM	75	0	18.14	18.24	18.29	18.59	20.7			
Channel				5650	5690	5681	5660				
Frequency (MHz)				567.5	5690	5681	5660				
10	QPSK	1	0	24.34	24.37	24.50	24.57	25.7			
10	QPSK	1	25	24.34	24.29	24.34	24.39				
10	QPSK	1	49	24.35	24.24	24.42	24.43				
10	QPSK	25	0	23.41	23.44	23.83	23.48	24.7			
10	QPSK	25	12	23.36	23.39	23.83	23.47				
10	QPSK	25	24	23.38	23.39	23.83	23.43				
10	QPSK	50	0	23.32	23.43	23.44	23.63	24.7			
10	16QAM	1	0	23.30	23.37	23.58	23.66				
10	16QAM	1	25	23.19	23.34	23.37	23.48				
10	16QAM	1	49	23.39	23.47	23.49	23.54	23.7			
10	16QAM	25	0	22.38	22.44	22.48	22.55				
10	16QAM	25	12	22.35	22.35	22.49	22.40				
10	16QAM	25	24	22.34	22.39	22.48	22.50	23.7			
10	16QAM	50	0	22.41	22.51	22.49	22.48				
10	64QAM	1	0	22.11	22.26	22.28	22.30				
10	64QAM	1	25	21.35	21.47	21.48	21.58	23.7			
10	64QAM	25	12	21.31	21.43	21.52	21.42				
10	64QAM	25	24	21.37	21.38	21.55	21.58				
10	64QAM	50	0	21.36	21.46	21.49	21.48	22.7			
10	64QAM	50	25	21.36	21.42	21.49	21.48				
10	64QAM	1	0	18.88	18.12	18.02	18.28				
10	256QAM	1	25	18.73	18.01	18.09	18.23	20.7			
10	256QAM	1	49	18.98	18.10	18.22	18.30				
10	256QAM	25	0	18.14	18.31	18.31	18.51				
10	256QAM	25	12	18.15	18.28	18.38	18.60	20.7			
10	256QAM	25	24	18.14	18.28	18.46	18.63				
10	256QAM	50	0	18.07	18.20	18.32	18.61				
Channel				5650	5690	5681	5660				
Frequency (MHz)				567.5	5690	5681	5662.5				
5	QPSK	1	0	24.34	24.42	24.53	24.61	25.7			
5	QPSK	1	14	24.22	24.23	24.42	24.47				
5	QPSK	1	24	24.29	24.36	24.44	24.55				
5	QPSK	12	0	23.41	23.59	24.61	23.67	24.7			
5	QPSK	12	7	23.38	23.47	23.55	23.61				
5	QPSK	12	13	23.42	23.45	23.59	23.63				
5	QPSK	25	0	23.40	23.48	23.58	23.65	24.7			
5	16QAM	1	0	23.47	23.57	23.65	23.75				
5	16QAM	1	12	23.45	23.63	23.60	23.67				
5	16QAM	1	24	23.50	23.57	23.65	23.69	23.7			
5	16QAM	12	0	22.39	22.48	22.59	22.63				
5	16QAM	12	7	22.36	22.46	22.54	22.64				
5	16QAM	12	13	22.37	22.47	22.51	22.64	23.7			
5	16QAM	25	0	22.44	22.53	22.62	22.68				
5	64QAM	1	0	22.30	22.28	22.41	22.44				
5	64QAM	1	12	22.12	22.21	22.32	22.38	23.7			
5	64QAM	1	24	22.18	22.28	22.41	22.47				
5	64QAM	12	0	21.48	21.54	21.68	21.71				
5	64QAM	12	7	21.44	21.49	21.62	21.65	22.7			
5	64QAM	12	13	21.43	21.47	21.50	21.62				
5	64QAM	25	0	21.47	21.52	21.61	21.71				
5	256QAM	1	0	18.90	18.14	18.11	18.24	20.7			
5	256QAM	1	12	18.71	18.03	18.09	18.23				
5	256QAM	1	24	18.99	18.14	18.20	18.37				
5	256QAM	12	0	18.10	18.29	18.24	18.61	20.7			
5	256QAM	12	7	18.15	18.31	18.31	18.61				
5	256QAM	12	13	18.13	18.38	18.43	18.64				
5	256QAM	25	0	18.11	18.24	18.33	18.58	20.7			
Channel				5650	5690	5681	5660				
Frequency (MHz)				567.5	5690	5681	5662.5				





Band 38_Ant 2										
BW (MHz)	Modulation	RB Start	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up time (min)			
Channel				3850	3800	3850				
Frequency (MHz)				2595	2595	2595				
20	QPSK	1	0	24.68	24.63	24.52	25.7			
20	QPSK	1	49	24.69	24.64	24.52				
20	QPSK	1	98	24.68	24.64	24.52				
20	QPSK	50	0	23.87	23.70	23.69	24.7			
20	QPSK	50	24	23.86	23.72	23.69				
20	QPSK	50	50	23.87	23.70	23.69				
20	QPSK	100	0	23.88	23.71	23.69	24.7			
20	16QAM	1	0	23.81	23.74	23.67				
20	16QAM	1	49	23.79	23.72	23.61				
20	16QAM	1	99	23.81	23.69	23.61	23.7			
20	16QAM	50	0	23.91	22.76	22.73				
20	16QAM	50	24	22.90	22.75	22.70				
20	16QAM	50	50	22.90	22.72	22.68	23.7			
20	16QAM	100	0	22.89	22.78	22.70				
20	64QAM	1	0	23.57	22.41	22.42				
20	64QAM	1	49	23.53	22.46	22.38	23.7			
20	64QAM	1	99	23.58	22.39	22.42				
20	64QAM	50	0	22.49	21.78	21.79				
20	64QAM	50	24	22.05	21.77	21.70	23.7			
20	64QAM	50	50	22.62	21.74	21.70				
20	64QAM	100	0	22.70	21.74	21.70				
20	256QAM	1	0	18.77	18.78	18.81	20.7			
20	256QAM	1	49	18.70	18.68	18.59				
20	256QAM	1	99	18.73	18.67	18.64				
20	256QAM	50	0	20.07	18.96	18.97	20.7			
20	256QAM	50	24	20.02	18.92	18.91				
20	256QAM	50	50	20.01	18.83	18.87				
20	256QAM	100	0	20.03	18.92	18.91	20.7			
Channel				3850	3800	3850				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	24.60	24.52	24.49	25.7			
15	QPSK	1	49	24.63	24.52	24.49				
15	QPSK	1	74	24.59	24.52	24.38				
15	QPSK	36	0	23.77	23.63	23.58	24.7			
15	QPSK	36	20	23.80	23.73	23.58				
15	QPSK	36	39	23.75	23.61	23.58				
15	QPSK	75	0	23.78	23.63	23.58	24.7			
15	16QAM	1	0	23.78	23.68	23.58				
15	16QAM	1	74	23.74	23.63	23.54				
15	16QAM	36	0	22.76	22.64	22.55	23.7			
15	16QAM	36	20	22.74	22.68	22.54				
15	16QAM	36	39	22.74	22.58	22.54				
15	64QAM	75	0	22.79	22.65	22.60	23.7			
15	64QAM	1	0	22.90	22.56	22.50				
15	64QAM	1	37	22.44	22.37	22.23				
15	64QAM	1	74	22.44	22.36	22.26	23.7			
15	64QAM	36	0	21.82	21.67	21.61				
15	64QAM	36	20	21.80	21.73	21.61				
15	64QAM	36	39	21.81	21.65	21.58	22.7			
15	64QAM	75	0	21.81	21.65	21.61				
15	256QAM	1	0	18.75	18.75	18.75				
15	256QAM	1	37	18.07	18.05	18.05	20.7			
15	256QAM	1	74	18.72	18.55	18.49				
15	256QAM	36	0	18.08	18.08	18.08				
15	256QAM	36	20	18.05	18.06	18.01	20.7			
15	256QAM	36	39	18.08	18.03	18.04				
15	256QAM	75	0	18.09	18.01	18.09				
Channel				3850	3800	3850				
Frequency (MHz)				2592.5	2595	2597.5				
10	QPSK	1	0	24.63	24.61	24.42	25.7			
10	QPSK	1	25	24.61	24.55	24.41				
10	QPSK	1	49	24.67	24.63	24.43				
10	QPSK	25	0	23.74	23.59	23.62	24.7			
10	QPSK	25	12	23.75	23.69	23.51				
10	QPSK	25	24	23.74	23.66	23.51				
10	QPSK	50	0	23.75	23.61	23.53	24.7			
10	16QAM	1	0	23.81	23.68	23.52				
10	16QAM	1	25	23.72	23.64	23.51				
10	16QAM	1	49	23.79	23.68	23.47	23.7			
10	16QAM	25	0	22.74	22.59	22.53				
10	16QAM	25	12	22.76	22.72	22.58				
10	16QAM	25	24	22.74	22.67	22.48	23.7			
10	16QAM	50	0	22.78	22.65	22.56				
10	64QAM	1	0	22.97	22.39	22.32				
10	64QAM	1	25	22.54	22.43	22.31	23.7			
10	64QAM	1	49	22.50	22.39	22.30				
10	64QAM	25	0	21.81	21.67	21.61				
10	64QAM	25	12	21.83	21.75	21.63	22.7			
10	64QAM	25	24	21.82	21.78	21.60				
10	64QAM	50	0	21.78	21.66	21.67				
10	256QAM	1	0	18.09	18.72	18.78	20.7			
10	256QAM	1	25	18.05	18.05	18.08				
10	256QAM	1	49	18.09	18.02	18.01				
10	256QAM	25	0	18.08	18.09	18.01	20.7			
10	256QAM	25	12	18.04	18.03	18.00				
10	256QAM	25	24	18.01	18.76	18.02				
10	256QAM	50	0	20.01	18.84	18.88	20.7			
Channel				3850	3800	3850				
Frequency (MHz)				2592.5	2595	2597.5				
5	QPSK	1	0	24.58	24.53	24.37	25.7			
5	QPSK	1	12	24.54	24.49	24.35				
5	QPSK	1	24	24.59	24.52	24.33				
5	QPSK	12	0	23.68	23.49	23.44	24.7			
5	QPSK	12	7	23.72	23.64	23.50				
5	QPSK	12	13	23.71	23.66	23.49				
5	QPSK	25	0	23.72	23.65	23.45	24.7			
5	16QAM	1	0	23.72	23.67	23.62				
5	16QAM	1	12	23.75	23.68	23.50				
5	16QAM	1	24	23.75	23.68	23.62	24.7			
5	16QAM	12	0	22.67	22.60	22.46				
5	16QAM	12	7	22.72	22.66	22.47				
5	16QAM	12	13	22.67	22.62	22.45	23.7			
5	16QAM	25	0	22.73	22.68	22.52				
5	64QAM	1	0	22.51	22.44	22.25				
5	64QAM	1	12	22.54	22.44	22.30	23.7			
5	64QAM	1	24	22.54	22.49	22.28				
5	64QAM	12	0	21.78	21.71	21.53				
5	64QAM	12	7	21.77	21.70	21.55	22.7			
5	64QAM	12	13	21.76	21.70	21.51				
5	64QAM	25	0	21.79	21.70	21.55				
5	256QAM	1	0	18.07	18.77	18.81	20.7			
5	256QAM	1	12	18.04	18.03	18.06				
5	256QAM	1	24	18.72	18.05	18.49				
5	256QAM	12	0	20.00	18.99	18.97	20.7			
5	256QAM	12	7	18.07	18.05	18.53				
5	256QAM	12	13	18.09	18.80	18.77				
5	256QAM	25	0	18.06	18.87	18.82	20.7			







Band 48_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Take-up (dBm)	
Channel				5640	5680	5720	5660	(dBm)	
Frequency (MHz)				5650	5690	5730	5670		
20	QPSK	1	0	22.10	22.18	22.26	22.16	24.1	
20	QPSK	1	49	22.12	22.18	22.20	22.19	24.1	
20	QPSK	1	99	22.22	22.31	22.38	22.32	24.1	
20	QPSK	50	0	22.23	22.27	22.45	22.21	24.1	
20	QPSK	50	24	22.27	22.29	22.48	22.25	24.1	
20	QPSK	50	50	22.26	22.31	22.39	22.17	24.1	
20	QPSK	100	0	22.23	22.31	22.46	22.23	24.1	
20	16QAM	1	0	22.14	22.24	22.34	22.32	24.1	
20	16QAM	1	49	22.08	22.25	22.41	22.19	24.1	
20	16QAM	1	99	22.26	22.46	22.54	22.38	24.1	
20	16QAM	50	0	22.16	22.35	22.50	22.28	24.1	
20	16QAM	50	24	22.18	22.38	22.53	22.28	24.1	
20	16QAM	50	50	22.17	22.35	22.44	22.22	24.1	
20	16QAM	100	0	22.17	22.35	22.50	22.28	24.1	
20	64QAM	1	0	21.68	21.86	21.99	21.88	23.7	
20	64QAM	1	49	21.68	21.86	21.99	21.77	23.7	
20	64QAM	1	99	21.87	22.03	22.09	21.87	23.7	
20	64QAM	50	0	21.44	21.62	21.68	21.45	23.7	
20	64QAM	50	24	21.48	21.65	21.81	21.55	23.7	
20	64QAM	50	50	21.48	21.66	21.73	21.52	23.7	
20	64QAM	100	0	21.66	21.64	21.80	21.56	23.7	
20	256QAM	1	0	19.20	19.33	19.59	19.40	20.7	
20	256QAM	1	49	19.14	19.31	19.50	19.28	20.7	
20	256QAM	1	99	19.30	19.49	19.60	19.38	20.7	
20	256QAM	50	0	19.51	19.64	19.81	19.66	20.7	
20	256QAM	50	24	19.52	19.65	19.82	19.64	20.7	
20	256QAM	50	50	19.51	19.65	19.77	19.58	20.7	
20	256QAM	100	0	19.59	19.61	19.78	19.61	20.7	
Channel				5720	5680	5640	5660	Take-up (dBm)	
Frequency (MHz)				5720	5680	5640	5660		
15	QPSK	1	0	21.03	22.18	22.20	22.09	24.1	
15	QPSK	1	49	21.02	22.18	22.20	22.09	24.1	
15	QPSK	1	74	22.01	22.24	22.35	22.19	24.1	
15	QPSK	36	0	22.10	22.20	22.41	22.18	24.1	
15	QPSK	36	20	22.05	22.28	22.39	22.15	24.1	
15	QPSK	36	39	22.11	22.30	22.39	22.07	24.1	
15	QPSK	0	0	22.06	22.29	22.38	22.19	24.1	
15	16QAM	1	0	22.14	22.24	22.45	22.29	24.1	
15	16QAM	1	37	21.38	22.42	22.54	22.30	24.1	
15	16QAM	1	74	22.19	22.46	22.51	22.30	24.1	
15	16QAM	36	0	22.13	22.25	22.41	22.28	24.1	
15	16QAM	36	20	22.11	22.32	22.47	22.24	24.1	
15	16QAM	36	39	22.12	22.27	22.42	22.12	24.1	
15	64QAM	1	0	21.60	21.77	21.94	21.82	23.7	
15	64QAM	1	37	21.64	21.81	21.88	21.68	23.7	
15	64QAM	1	74	21.79	22.05	22.20	21.78	23.7	
15	64QAM	36	0	21.57	21.52	21.75	21.48	23.7	
15	64QAM	36	20	21.40	21.56	21.72	21.46	23.7	
15	64QAM	36	39	21.44	21.60	21.85	21.48	23.7	
15	64QAM	75	0	21.37	21.62	21.75	21.53	23.7	
15	256QAM	1	0	19.26	19.28	19.43	19.26	20.7	
15	256QAM	1	37	19.09	19.35	19.42	19.22	20.7	
15	256QAM	1	74	19.28	19.49	19.43	19.38	20.7	
15	256QAM	36	0	19.44	19.54	19.71	19.50	20.7	
15	256QAM	36	20	19.48	19.64	19.74	19.80	20.7	
15	256QAM	36	39	19.40	19.68	19.69	19.53	20.7	
15	256QAM	75	0	19.46	19.50	19.77	19.52	20.7	
Channel				5680	5640	5600	5660	Take-up (dBm)	
Frequency (MHz)				5680	5640	5600	5660		
10	QPSK	1	0	21.08	22.16	22.20	22.14	24.1	
10	QPSK	1	25	22.00	22.15	22.22	21.97	24.1	
10	QPSK	1	49	22.03	22.22	22.37	22.18	24.1	
10	QPSK	25	0	22.01	22.24	22.35	22.21	24.1	
10	QPSK	25	12	22.08	22.27	22.39	22.21	24.1	
10	QPSK	25	24	22.14	22.34	22.44	22.14	24.1	
10	QPSK	50	0	22.06	22.23	22.40	22.15	24.1	
10	16QAM	1	0	22.10	22.26	22.46	22.30	24.1	
10	16QAM	1	25	22.03	22.20	22.40	22.19	24.1	
10	16QAM	1	49	22.16	22.36	22.46	22.32	24.1	
10	16QAM	25	0	22.09	22.28	22.46	22.25	24.1	
10	16QAM	25	12	22.17	22.36	22.45	22.22	24.1	
10	16QAM	25	24	22.12	22.35	22.44	22.16	24.1	
10	16QAM	50	0	22.15	22.35	22.45	22.23	24.1	
10	64QAM	1	0	21.59	21.85	21.95	21.79	23.7	
10	64QAM	1	25	21.60	21.86	21.92	21.70	23.7	
10	64QAM	1	49	21.85	22.02	22.03	21.85	23.7	
10	64QAM	25	0	21.43	21.64	21.70	21.48	23.7	
10	64QAM	25	12	21.38	21.71	21.74	21.49	23.7	
10	64QAM	25	24	21.45	21.58	21.69	21.49	23.7	
10	64QAM	50	0	21.46	21.56	21.74	21.52	23.7	
10	64QAM	50	0	19.16	19.27	19.50	19.32	20.7	
10	256QAM	1	25	19.08	19.27	19.43	19.22	20.7	
10	256QAM	1	49	19.12	19.41	19.48	19.32	20.7	
10	256QAM	25	0	19.51	19.55	19.79	19.64	20.7	
10	256QAM	25	12	19.48	19.59	19.75	19.63	20.7	
10	256QAM	25	24	19.47	19.55	19.67	19.53	20.7	
10	256QAM	50	0	19.48	19.54	19.70	19.53	20.7	
Channel				5640	5600	5560	5620	Take-up (dBm)	
Frequency (MHz)				5640	5600	5560	5620		
5	QPSK	1	0	21.94	22.10	22.29	22.14	24.1	
5	QPSK	1	14	21.98	22.15	22.21	21.98	24.1	
5	QPSK	1	24	22.07	22.20	22.29	22.17	24.1	
5	QPSK	12	0	22.05	22.24	22.45	22.14	24.1	
5	QPSK	12	7	22.12	22.21	22.45	22.13	24.1	
5	QPSK	12	13	22.14	22.34	22.31	22.11	24.1	
5	QPSK	25	0	22.03	22.27	22.38	22.18	24.1	
5	16QAM	1	0	22.09	22.33	22.50	22.23	24.1	
5	16QAM	1	12	22.06	22.15	22.35	22.18	24.1	
5	16QAM	1	24	22.25	22.44	22.48	22.24	24.1	
5	16QAM	12	0	22.13	22.20	22.43	22.22	24.1	
5	16QAM	12	7	22.14	22.27	22.43	22.21	24.1	
5	16QAM	12	13	22.13	22.33	22.35	22.20	24.1	
5	16QAM	25	0	22.07	22.32	22.48	22.18	24.1	
5	64QAM	1	0	21.92	21.85	22.19	21.85	23.7	
5	64QAM	1	12	21.88	21.78	21.95	21.68	23.7	
5	64QAM	1	24	21.87	21.98	22.01	21.87	23.7	
5	64QAM	12	0	21.39	21.65	21.70	21.52	23.7	
5	64QAM	12	7	21.40	21.62	21.80	21.53	23.7	
5	64QAM	12	13	21.41	21.68	21.87	21.42	23.7	
5	64QAM	25	0	21.38	21.58	21.80	21.52	23.7	
5	256QAM	1	0	19.16	19.27	19.50	19.35	20.7	
5	256QAM	1	12	19.08	19.25	19.48	19.19	20.7	
5	256QAM	1	24	19.28	19.48	19.47	19.27	20.7	
5	256QAM	12	0	19.48	19.63	19.61	19.47	20.7	
5	256QAM	12	7	19.53	19.65	19.75	19.62	20.7	
5	256QAM	12	13	19.42	19.61	19.67	19.48	20.7	
5	256QAM	25	0	19.47	19.55	19.74	19.53	20.7	



Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq.			
Channel				3850	3800	3850				
Frequency (MHz)				2590	2590	2590				
20	QPSK	1	0	2342	2333	2325	20.2			
20	QPSK	1	49	2342	2336	2327				
20	QPSK	1	99	2342	2338	2329				
20	QPSK	50	0	2259	2242	2240	24.2			
20	QPSK	50	24	2255	2242	2241				
20	QPSK	50	50	2255	2242	2240				
20	QPSK	100	0	2259	2241	2242	24.2			
20	16QAM	1	0	2257	2248	2249				
20	16QAM	1	49	2252	2248	2237				
20	16QAM	1	99	2257	2247	2244	20.2			
20	16QAM	50	0	2142	2145	2144				
20	16QAM	50	24	2159	2144	2144				
20	16QAM	50	50	2150	2144	2145	20.2			
20	16QAM	100	0	2159	2144	2144				
20	64QAM	1	0	2128	2122	2122				
20	64QAM	1	49	2133	2128	2125	20.2			
20	64QAM	1	99	2137	2129	2129				
20	64QAM	50	0	2045	2045	2044				
20	64QAM	50	24	2053	2047	2045	20.2			
20	64QAM	50	50	2059	2045	2044				
20	64QAM	100	0	2050	2045	2044				
20	256QAM	1	0	1846	1838	1836	20.2			
20	256QAM	1	49	1835	1826	1827				
20	256QAM	1	99	1834	1828	1824				
20	256QAM	50	0	1871	1852	1850	20.2			
20	256QAM	50	24	1856	1851	1851				
20	256QAM	50	50	1843	1839	1833				
20	256QAM	100	0	1842	1847	1846	20.2			
Channel				3777.5	3769	3772.5				
Frequency (MHz)				2177.5	2169	2172.5				
15	QPSK	1	0	2138	2128	2121	20.2			
15	QPSK	1	49	2140	2132	2127				
15	QPSK	1	74	2134	2123	2127				
15	QPSK	36	0	2256	2236	2234	24.2			
15	QPSK	36	20	2252	2239	2239				
15	QPSK	36	39	2246	2242	2230				
15	QPSK	75	0	2249	2231	2229	24.2			
15	16QAM	1	0	2247	2245	2234				
15	16QAM	1	37	2242	2235	2237				
15	16QAM	1	74	2254	2239	2237	20.2			
15	16QAM	36	0	2159	2141	2144				
15	16QAM	36	20	2148	2137	2141				
15	16QAM	36	39	2158	2137	2139	20.2			
15	16QAM	75	0	2151	2144	2138				
15	64QAM	1	0	2125	2123	2121				
15	64QAM	1	37	2131	2123	2122	20.2			
15	64QAM	1	74	2135	2129	2129				
15	64QAM	36	0	2057	2044	2040				
15	64QAM	36	20	2051	2043	2037	20.2			
15	64QAM	36	39	2050	2045	2037				
15	64QAM	75	0	2054	2037	2039				
15	256QAM	1	0	1837	1837	1837	20.2			
15	256QAM	1	37	1831	1825	1825				
15	256QAM	1	74	1832	1823	1823				
15	256QAM	36	0	1841	1842	1846	20.2			
15	256QAM	36	20	1843	1847	1845				
15	256QAM	36	39	1853	1838	1831				
15	256QAM	75	0	1841	1847	1838	20.2			
Channel				3800	3800	3800				
Frequency (MHz)				2592	2592	2592				
10	QPSK	1	0	2338	2327	2321	20.2			
10	QPSK	1	25	2334	2334	2327				
10	QPSK	1	49	2331	2328	2334				
10	QPSK	25	0	2255	2241	2236	24.2			
10	QPSK	25	12	2253	2239	2233				
10	QPSK	25	24	2253	2239	2233				
10	QPSK	50	0	2251	2236	2236	24.2			
10	16QAM	1	0	2247	2238	2231				
10	16QAM	1	26	2244	2239	2237				
10	16QAM	1	49	2254	2246	2234	20.2			
10	16QAM	25	0	2159	2143	2142				
10	16QAM	25	12	2155	2135	2134				
10	16QAM	25	26	2153	2144	2144	20.2			
10	16QAM	50	0	2152	2145	2142				
10	64QAM	1	0	2127	2122	2122				
10	64QAM	1	26	2127	2122	2122	20.2			
10	64QAM	1	49	2133	2121	2123				
10	64QAM	25	0	2052	2041	2035				
10	64QAM	25	12	2058	2042	2035	20.2			
10	64QAM	25	26	2055	2042	2038				
10	64QAM	50	0	2055	2036	2037				
10	256QAM	1	0	1839	1831	1832	20.2			
10	256QAM	1	25	1838	1824	1821				
10	256QAM	1	49	1831	1824	1822				
10	256QAM	25	0	1834	1842	1846	20.2			
10	256QAM	25	12	1834	1843	1835				
10	256QAM	25	26	1836	1835	1824				
10	256QAM	50	0	1838	1841	1845	20.2			
Channel				3800	3800	3800				
Frequency (MHz)				2592.5	2592	2592.5				
5	QPSK	1	0	2339	2324	2325	20.2			
5	QPSK	1	14	2341	2328	2329				
5	QPSK	1	24	2332	2321	2321				
5	QPSK	12	0	2256	2234	2231	24.2			
5	QPSK	12	7	2248	2235	2235				
5	QPSK	12	13	2245	2232	2238				
5	QPSK	25	0	2253	2241	2237	24.2			
5	16QAM	1	0	2247	2242	2238				
5	16QAM	1	12	2244	2244	2238				
5	16QAM	1	24	2254	2245	2239	20.2			
5	16QAM	12	0	2154	2143	2137				
5	16QAM	12	7	2159	2138	2144				
5	16QAM	12	13	2159	2143	2135	20.2			
5	16QAM	25	0	2159	2140	2134				
5	64QAM	1	0	2130	2125	2122				
5	64QAM	1	12	2131	2123	2123	20.2			
5	64QAM	1	24	2130	2123	2121				
5	64QAM	12	0	2054	2035	2038				
5	64QAM	12	7	2056	2037	2035	20.2			
5	64QAM	12	13	2053	2046	2038				
5	64QAM	25	0	2040	2035	2042				
5	256QAM	1	0	1845	1837	1834	20.2			
5	256QAM	1	12	1838	1824	1827				
5	256QAM	1	24	1838	1820	1822				
5	256QAM	12	0	1843	1851	1846	20.2			
5	256QAM	12	7	1843	1842	1842				
5	256QAM	12	13	1836	1839	1827				
5	256QAM	25	0	1832	1829	1846	20.2			







Band 48_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High KHz	Power Ch / Freq	Time-up (min)
Channel				5640	5680	5720	5660		
Frequency (MHz)				5650	5690	5730	5670		
20	QPSK	1	0	23.48	23.57	23.67	23.74		24.9
20	QPSK	1	49	23.34	23.43	23.52	23.54		
20	QPSK	1	99	23.34	23.43	23.52	23.54		
20	QPSK	50	0	23.22	23.35	23.38	23.38		24.7
20	QPSK	50	24	23.16	23.29	23.38	23.38		
20	QPSK	50	50	23.14	23.23	23.31	23.33		
20	QPSK	100	0	23.18	23.30	23.28	23.40		24.7
20	16QAM	1	0	23.09	23.43	23.53	23.52		
20	16QAM	1	49	23.12	23.23	23.30	23.32		
20	16QAM	1	99	23.16	23.23	23.59	23.31		23.7
20	16QAM	50	0	22.23	22.31	22.38	22.41		
20	16QAM	50	24	22.20	22.33	22.33	22.41		
20	16QAM	50	50	22.15	22.21	22.31	22.34		22.7
20	16QAM	100	0	22.19	22.31	22.31	22.40		
20	16QAM	1	0	22.00	22.17	22.19	22.22		
20	64QAM	1	49	21.83	21.98	22.08	22.09		22.7
20	64QAM	1	99	21.92	21.97	22.05	22.06		
20	64QAM	50	0	21.44	21.49	21.58	21.44		
20	64QAM	50	24	21.23	21.35	21.33	21.41		22.7
20	64QAM	50	50	21.15	21.28	21.34	21.33		
20	64QAM	100	0	21.20	21.33	21.33	21.42		
20	256QAM	1	0	18.88	19.08	19.11	19.32		20.7
20	256QAM	1	49	18.71	18.85	19.01	19.30		
20	256QAM	1	99	18.99	19.04	19.01	19.30		
20	256QAM	50	0	18.17	18.35	18.29	18.54		20.7
20	256QAM	50	24	18.11	18.28	18.21	18.56		
20	256QAM	50	50	18.15	18.35	18.42	18.65		
20	256QAM	100	0	18.04	18.27	18.28	18.51		Time-up (min)
Channel				3620	3660	3700	3640		
Frequency (MHz)				3627.5	3667	3707	3647.5		
15	QPSK	1	0	23.43	23.44	23.59	23.64		24.9
15	QPSK	1	49	23.28	23.44	23.59	23.64		
15	QPSK	1	99	23.33	23.38	23.42	23.44		
15	QPSK	36	0	23.21	23.35	23.38	23.38		24.7
15	QPSK	36	20	23.13	23.21	23.25	23.33		
15	QPSK	36	39	23.10	23.18	23.31	23.30		
15	QPSK	0	0	23.18	23.29	23.24	23.30		24.7
15	16QAM	1	0	23.27	23.40	23.50	23.46		
15	16QAM	1	37	23.10	23.21	23.29	23.23		
15	16QAM	36	0	22.19	22.28	22.28	22.41		23.7
15	16QAM	36	20	22.19	22.28	22.29	22.37		
15	16QAM	36	39	22.05	22.25	22.29	22.27		
15	16QAM	75	0	22.15	22.25	22.21	22.32		23.7
15	64QAM	1	0	21.02	21.15	21.14	21.19		
15	64QAM	1	37	21.80	21.88	22.00	22.00		
15	64QAM	1	74	21.86	21.86	22.04	21.97		22.7
15	64QAM	36	0	21.20	21.30	21.32	21.30		
15	64QAM	36	20	21.15	21.31	21.31	21.42		
15	64QAM	36	39	21.09	21.23	21.27	21.31		20.7
15	64QAM	75	0	21.16	21.29	21.29	21.40		
15	256QAM	1	0	18.74	18.74	19.01	19.21		
15	256QAM	1	37	18.76	18.95	19.11	19.21		20.7
15	256QAM	1	74	18.90	18.90	19.27	19.42		
15	256QAM	36	0	18.10	18.34	18.27	18.45		
15	256QAM	36	20	18.17	18.28	18.29	18.83		20.7
15	256QAM	36	39	18.20	18.32	18.47	18.60		
15	256QAM	75	0	18.03	18.20	18.28	18.59		
Channel				5650	5690	5730	5690		
Frequency (MHz)				5650	5690	5730	5690		
10	QPSK	1	0	23.42	23.57	23.67	23.67		24.9
10	QPSK	1	25	23.28	23.37	23.59	23.46		
10	QPSK	1	49	23.38	23.34	23.47	23.42		
10	QPSK	25	0	23.16	23.29	23.29	23.35		24.7
10	QPSK	25	12	23.17	23.44	23.30	23.34		
10	QPSK	25	24	23.07	23.35	23.28	23.38		
10	QPSK	50	0	23.09	23.20	23.27	23.31		24.7
10	16QAM	1	0	23.16	23.36	23.51	23.42		
10	16QAM	1	25	23.08	23.17	23.24	23.29		
10	16QAM	1	49	23.16	23.21	23.25	23.28		23.7
10	16QAM	25	0	22.20	22.38	22.39	22.44		
10	16QAM	25	12	22.13	22.23	22.32	22.33		
10	16QAM	25	24	22.08	22.28	22.27	22.27		23.7
10	16QAM	50	0	22.09	22.25	22.24	22.33		
10	64QAM	1	0	22.00	22.15	22.15	22.20		
10	64QAM	1	25	21.16	21.30	21.32	21.31		22.7
10	64QAM	25	12	21.19	21.30	21.29	21.44		
10	64QAM	25	24	21.08	21.28	21.32	21.33		
10	64QAM	50	0	21.11	21.28	21.28	21.50		20.7
10	256QAM	1	0	18.90	19.11	19.09	19.28		
10	256QAM	1	25	18.76	19.03	19.07	19.22		
10	256QAM	1	49	18.94	19.08	19.24	19.38		20.7
10	256QAM	25	0	18.12	18.34	18.25	18.47		
10	256QAM	25	12	18.11	18.32	18.37	18.60		
10	256QAM	25	24	18.18	18.34	18.41	18.58		20.7
10	256QAM	50	0	18.12	18.28	18.32	18.54		
10	256QAM	50	0	18.12	18.28	18.32	18.54		
Channel				3620	3660	3700	3660		
Frequency (MHz)				3620	3660	3700	3660		
5	QPSK	1	0	23.44	23.57	23.63	23.68		24.9
5	QPSK	1	12	23.29	23.41	23.49	23.44		
5	QPSK	1	24	23.27	23.35	23.48	23.46		
5	QPSK	12	0	23.22	23.26	23.41	23.38		24.7
5	QPSK	12	6	23.11	23.17	23.27	23.30		
5	QPSK	12	13	23.09	23.20	23.28	23.23		
5	QPSK	25	0	23.14	23.23	23.20	23.38		24.7
5	16QAM	1	0	23.28	23.46	23.46	23.45		
5	16QAM	1	12	23.02	23.22	23.22	23.29		
5	16QAM	1	24	23.09	23.22	23.29	23.31		23.7
5	16QAM	12	0	22.23	22.34	22.32	22.38		
5	16QAM	12	6	22.16	22.26	22.33	22.35		
5	16QAM	12	13	22.09	22.25	22.28	22.27		23.7
5	16QAM	25	0	22.18	22.23	22.21	22.38		
5	64QAM	1	0	21.97	22.01	22.09	22.13		
5	64QAM	1	12	21.81	21.91	21.87	22.01		22.7
5	64QAM	1	24	21.88	21.94	22.01	21.97		
5	64QAM	12	0	21.19	21.35	21.34	21.31		
5	64QAM	12	7	21.22	21.28	21.31	21.39		22.7
5	64QAM	12	18	21.11	21.28	21.34	21.37		
5	64QAM	25	0	21.17	21.27	21.25	21.38		
5	256QAM	1	0	18.83	19.14	19.11	19.33		20.7
5	256QAM	1	12	18.78	19.02	19.19	19.30		
5	256QAM	1	24	18.88	19.08	19.28	19.39		
5	256QAM	12	0	18.16	18.34	18.35	18.61		20.7
5	256QAM	12	7	18.18	18.34	18.35	18.65		
5	256QAM	12	13	18.11	18.38	18.44	18.64		
5	256QAM	25	0	18.00	18.25	18.28	18.58		





Band 38_Ant 2										
BW (MHz)	Modulation	RB Start	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq.			
Channel				3850	3800	3850				
Frequency (MHz)				2595	2595	2595				
20	QPSK	1	0	24.68	24.63	24.52	25.7			
20	QPSK	1	49	24.69	24.64	24.52				
20	QPSK	1	99	24.68	24.64	24.52				
20	QPSK	50	0	23.87	23.70	23.69	24.7			
20	QPSK	50	24	23.86	23.72	23.69				
20	QPSK	50	50	23.87	23.70	23.69				
20	QPSK	100	0	23.88	23.71	23.69	24.7			
20	16QAM	1	0	23.81	23.74	23.67				
20	16QAM	1	49	23.79	23.72	23.61				
20	16QAM	1	99	23.81	23.69	23.61	23.7			
20	16QAM	50	0	22.91	22.76	22.73				
20	16QAM	50	24	22.90	22.75	22.70				
20	16QAM	50	50	22.90	22.72	22.68	23.7			
20	16QAM	100	0	22.89	22.73	22.70				
20	64QAM	1	0	23.57	22.41	22.42				
20	64QAM	1	49	23.53	22.46	22.38	23.7			
20	64QAM	1	99	23.58	22.39	22.42				
20	64QAM	50	0	22.49	21.78	21.79				
20	64QAM	50	24	22.05	21.77	21.70	23.7			
20	64QAM	50	50	22.62	21.74	21.70				
20	64QAM	100	0	22.70	21.74	21.70				
20	256QAM	1	0	18.77	18.78	18.81	20.7			
20	256QAM	1	49	18.70	18.68	18.59				
20	256QAM	1	99	18.73	18.67	18.64				
20	256QAM	50	0	20.07	18.96	18.97	20.7			
20	256QAM	50	24	20.02	18.92	18.91				
20	256QAM	50	50	20.01	18.83	18.87				
20	256QAM	100	0	20.03	18.92	18.91	20.7			
Channel				3850	3800	3850				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	24.60	24.52	24.49	25.7			
15	QPSK	1	49	24.63	24.52	24.49				
15	QPSK	1	74	24.59	24.52	24.38				
15	QPSK	36	0	23.77	23.63	23.58	24.7			
15	QPSK	36	20	23.80	23.73	23.58				
15	QPSK	36	39	23.75	23.61	23.58				
15	QPSK	75	0	23.78	23.63	23.58	24.7			
15	16QAM	1	0	23.78	23.68	23.58				
15	16QAM	1	74	23.74	23.63	23.54				
15	16QAM	36	0	22.76	22.64	22.55	23.7			
15	16QAM	36	20	22.74	22.68	22.54				
15	16QAM	36	39	22.74	22.58	22.54				
15	16QAM	75	0	22.79	22.65	22.60	23.7			
15	64QAM	1	0	22.90	22.56	22.50				
15	64QAM	1	37	22.44	22.37	22.23				
15	64QAM	1	74	22.44	22.36	22.26	23.7			
15	64QAM	36	0	21.82	21.67	21.61				
15	64QAM	36	20	21.80	21.73	21.61				
15	64QAM	36	39	21.81	21.65	21.58	22.7			
15	64QAM	75	0	21.81	21.65	21.61				
15	256QAM	1	0	18.75	18.75	18.75				
15	256QAM	1	37	18.07	18.05	18.55	20.7			
15	256QAM	1	74	18.72	18.55	18.49				
15	256QAM	36	0	18.08	18.08	18.08				
15	256QAM	36	20	18.05	18.08	18.01	20.7			
15	256QAM	36	39	18.08	18.03	18.04				
15	256QAM	75	0	18.09	18.01	18.09				
Channel				3850	3800	3850				
Frequency (MHz)				2592.5	2595	2597.5				
10	QPSK	1	0	24.63	24.61	24.42	25.7			
10	QPSK	1	25	24.61	24.55	24.41				
10	QPSK	1	49	24.67	24.63	24.43				
10	QPSK	25	0	23.74	23.59	23.62	24.7			
10	QPSK	25	12	23.75	23.69	23.51				
10	QPSK	25	24	23.74	23.69	23.51				
10	QPSK	50	0	23.75	23.61	23.53	24.7			
10	16QAM	1	0	23.81	23.68	23.52				
10	16QAM	1	25	23.72	23.64	23.51				
10	16QAM	1	49	23.79	23.68	23.47	23.7			
10	16QAM	25	0	22.74	22.59	22.53				
10	16QAM	25	12	22.76	22.72	22.58				
10	16QAM	25	20	22.74	22.67	22.48	23.7			
10	16QAM	50	0	22.78	22.65	22.56				
10	64QAM	1	0	22.97	22.39	22.32				
10	64QAM	1	49	22.94	22.43	22.31	23.7			
10	64QAM	25	0	21.81	21.67	21.61				
10	64QAM	25	12	21.83	21.75	21.63				
10	64QAM	25	20	21.82	21.78	21.60	22.7			
10	64QAM	50	0	21.78	21.66	21.67				
10	256QAM	1	0	18.09	18.72	18.78				
10	256QAM	1	25	18.05	18.59	18.58	20.7			
10	256QAM	1	49	18.09	18.52	18.48				
10	256QAM	25	0	18.08	18.59	18.91				
10	256QAM	25	12	18.04	18.83	18.85	20.7			
10	256QAM	25	24	18.01	18.76	18.82				
10	256QAM	50	0	20.01	18.84	18.88				
Channel				3850	3800	3850				
Frequency (MHz)				2592.5	2595	2597.5				
5	QPSK	1	0	24.58	24.53	24.37	25.7			
5	QPSK	1	14	24.54	24.49	24.35				
5	QPSK	1	24	24.59	24.52	24.33				
5	QPSK	12	0	23.88	23.64	23.64	24.7			
5	QPSK	12	7	23.72	23.64	23.50				
5	QPSK	12	13	23.71	23.66	23.49				
5	QPSK	25	0	23.72	23.65	23.45	24.7			
5	16QAM	1	0	23.72	23.67	23.62				
5	16QAM	1	12	23.75	23.68	23.50				
5	16QAM	1	24	23.75	23.68	23.52	23.7			
5	16QAM	12	0	22.67	22.60	22.46				
5	16QAM	12	7	22.72	22.66	22.47				
5	16QAM	12	13	22.67	22.62	22.45	23.7			
5	16QAM	25	0	22.73	22.68	22.52				
5	64QAM	1	0	22.51	22.44	22.25				
5	64QAM	1	12	22.54	22.44	22.30	23.7			
5	64QAM	1	24	22.54	22.49	22.28				
5	64QAM	12	0	21.78	21.71	21.53				
5	64QAM	12	7	21.77	21.70	21.55	22.7			
5	64QAM	12	13	21.76	21.70	21.51				
5	64QAM	25	0	21.79	21.70	21.55				
5	256QAM	1	0	18.67	18.77	18.81	20.7			
5	256QAM	1	12	18.64	18.63	18.56				
5	256QAM	1	24	18.72	18.55	18.49				
5	256QAM	12	0	20.00	18.96	18.97	20.7			
5	256QAM	12	7	19.97	18.95	18.93				
5	256QAM	12	13	19.99	18.90	18.97				
5	256QAM	25	0	18.96	18.87	18.82	20.7			



Band 41_Ant 2											
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Time-up limit (min)	
Channel				3970	4010	4050	4105	4160			
Frequency (MHz)				2565	2605	2645	2685	2725			
20	QPSK	1	0	24.69	24.77	24.75	24.51	24.30		25.7	
20	QPSK	1	49	24.74	24.80	24.81	24.83	24.89			
20	QPSK	1	99	24.78	24.82	24.76	24.41	24.57		24.7	
20	QPSK	50	0	23.87	23.84	23.83	23.73	23.65			
20	QPSK	50	34	23.86	23.86	23.81	23.87	23.73			
20	QPSK	50	50	23.87	23.87	23.82	23.75	23.75			
20	QPSK	100	0	23.88	23.95	23.83	23.79	23.69			
20	HQAM	1	0	23.83	23.89	23.87	23.64	23.43			
20	HQAM	1	49	23.82	23.89	23.78	23.92	23.77		23.7	
20	HQAM	1	99	23.86	23.86	23.83	23.48	23.67			
20	HQAM	50	0	22.90	22.93	22.86	22.78	22.81			
20	HQAM	50	24	22.90	22.90	22.88	22.93	22.81			
20	HQAM	50	50	22.91	23.00	22.97	22.81	22.79			
20	HQAM	100	0	22.89	22.98	22.87	22.83	22.72			
20	HQAM	1	0	22.54	22.57	22.50	22.28	22.12		23.7	
20	HQAM	1	49	22.56	22.62	22.57	22.12	22.29			
20	HQAM	1	99	22.57	22.70	22.51	22.22	22.28			
20	HQAM	50	0	21.67	21.67	21.67	21.67	21.67			
20	HQAM	50	24	21.64	21.61	21.57	21.02	21.83			
20	HQAM	50	50	21.61	21.59	21.86	21.78	21.80			
20	HQAM	100	0	21.00	21.08	21.07	21.81	21.72		20.7	
20	SSBQAM	1	0	19.89	19.75	19.87	19.81	19.38			
20	SSBQAM	1	49	19.75	19.71	19.77	19.75	19.73			
20	SSBQAM	1	99	19.79	19.81	19.82	19.26	19.28			
20	SSBQAM	50	0	20.10	20.10	20.11	20.00	19.87			
20	SSBQAM	50	34	20.08	20.06	20.11	20.07	20.05			
20	SSBQAM	50	50	20.07	20.01	20.00	19.88	19.38		20.7	
20	SSBQAM	100	0	20.07	20.03	20.00	19.99	19.91			
Channel				3970	4010	4050	4105	4160			
Frequency (MHz)				2685	2685	2691	2677.5	2692.5			
15	QPSK	1	0	24.62	24.70	24.66	24.61	24.29			25.7
15	QPSK	1	37	24.63	24.72	24.64	24.74	24.59			
15	QPSK	1	74	24.66	24.81	24.68	24.53	24.58		24.7	
15	QPSK	98	0	23.70	23.66	23.75	23.73	23.65			
15	QPSK	98	30	23.83	23.84	23.78	23.77	23.71			
15	QPSK	98	50	23.80	23.87	23.74	23.77	23.72			
15	QPSK	1	0	23.79	23.86	23.77	23.72	23.66			
15	HQAM	1	0	23.76	23.84	23.70	23.77	23.52			
15	HQAM	1	37	23.81	23.87	23.82	23.66	23.45		24.7	
15	HQAM	1	74	23.80	24.00	23.85	23.67	23.68			
15	HQAM	98	0	22.69	22.82	22.74	22.70	22.66			
15	HQAM	98	26	22.77	22.83	22.71	22.73	22.68			
15	HQAM	98	50	22.77	22.86	22.71	22.75	22.67			
15	HQAM	98	0	22.84	22.89	22.77	22.75	22.70			
15	HQAM	1	0	22.86	22.84	22.81	22.43	22.29		23.7	
15	HQAM	1	37	22.52	22.48	22.45	22.86	22.47			
15	HQAM	1	74	22.63	22.74	22.61	22.61	22.61			
15	HQAM	98	0	21.75	21.90	21.70	21.76	21.84			
15	HQAM	98	20	21.83	21.89	21.76	21.79	21.79			
15	HQAM	98	50	21.83	21.90	21.78	21.78	21.72			
15	HQAM	75	0	21.83	21.90	21.78	21.74	21.70		20.7	
15	HQAM	1	0	19.87	19.87	19.87	19.87	19.87			
15	SSBQAM	1	37	19.70	19.65	19.57	19.73	19.72			
15	SSBQAM	1	74	19.72	19.75	19.78	19.20	19.56			
15	SSBQAM	98	0	20.08	20.05	20.04	19.86	19.81			
15	SSBQAM	98	30	20.04	20.02	20.07	20.02	20.01			
15	SSBQAM	98	50	19.88	19.95	20.01	19.80	19.90		20.7	
15	SSBQAM	98	0	20.04	20.00	20.05	19.80	19.91			
Channel				3970	4010	4050	4105	4160			
Frequency (MHz)				2685	2685	2691	2646.5	2667.5			
10	QPSK	1	0	24.65	24.69	24.64	24.45	24.41			25.7
10	QPSK	1	25	24.68	24.74	24.67	24.75	24.82			
10	QPSK	1	50	24.70	24.76	24.65	24.53	24.56		24.7	
10	QPSK	55	0	23.76	23.82	23.75	23.72	23.68			
10	QPSK	20	12	23.78	23.87	23.77	23.88	23.73			
10	QPSK	25	0	23.78	23.85	23.74	23.80	23.74			
10	QPSK	50	0	23.78	23.87	23.77	23.79	23.87			
10	HQAM	1	0	23.80	23.84	23.78	23.66	23.58			
10	HQAM	1	25	23.80	23.80	23.74	23.51	23.74		24.7	
10	HQAM	1	49	23.78	23.89	23.72	23.63	23.46			
10	HQAM	95	0	22.77	22.84	22.77	22.77	22.69			
10	HQAM	24	12	22.81	22.89	22.80	22.84	22.77			
10	HQAM	95	20	22.78	22.83	22.76	22.80	22.65			
10	HQAM	95	0	22.81	22.90	22.75	22.84	23.15			
10	HQAM	1	0	22.54	22.61	22.47	22.35	22.28		23.7	
10	HQAM	1	49	22.55	22.68	22.48	22.40	22.12			
10	HQAM	25	0	21.83	21.92	21.80	21.81	21.74			
10	HQAM	95	12	21.88	21.94	21.80	21.96	21.82			
10	HQAM	95	25	21.85	21.95	21.85	21.87	21.71			
10	HQAM	95	0	21.81	21.87	21.79	21.80	21.70			
10	SSBQAM	1	0	19.70	19.68	19.78	19.61	19.38		20.7	
10	SSBQAM	1	25	19.69	19.62	19.77	19.69	19.69			
10	SSBQAM	1	49	19.78	19.81	19.80	19.24	19.54			
10	SSBQAM	25	0	20.07	20.05	20.05	19.86	19.84			
10	SSBQAM	20	12	20.05	19.97	20.10	20.08	19.97			
10	SSBQAM	95	25	19.97	20.01	20.04	19.88	19.91			
10	SSBQAM	50	0	20.01	20.03	20.03	19.99	19.89		20.7	
Channel				3970	4010	4050	4105	4160			
Frequency (MHz)				2685	2643.5	2651	2641.5	2667.5			
5	QPSK	1	0	24.67	24.69	24.50	24.70	24.68			25.7
5	QPSK	1	12	24.64	24.71	24.64	24.74	24.59			
5	QPSK	1	24	24.62	24.69	24.61	24.70	24.54			24.7
5	QPSK	12	0	23.77	23.66	23.75	23.76	23.75			
5	QPSK	12	7	23.76	23.87	23.77	23.63	23.71			
5	QPSK	12	13	23.78	23.82	23.74	23.85	23.70			
5	QPSK	55	0	23.78	23.83	23.75	23.78	23.67			
5	HQAM	1	0	23.78	23.84	23.75	23.82	23.74			
5	HQAM	1	12	23.81	23.87	23.84	23.96	23.85		24.7	
5	HQAM	1	24	23.83	23.87	23.80	23.89	23.71			
5	HQAM	12	0	22.76	22.81	22.73	22.81	22.70			
5	HQAM	12	7	22.78	22.88	22.72	22.81	22.72			
5	HQAM	12	13	22.76	22.80	22.74	22.81	22.68			
5	HQAM	95	0	22.80	22.88	22.80	22.83	22.72			
5	HQAM	1	0	22.68	22.82	22.60	22.84	22.60		23.7	
5	HQAM	1	12	22.69	22.66	22.50	22.73	22.50			
5	HQAM	1	24	22.66	22.60	22.52	22.67	22.44			
5	HQAM	12	0	21.80	21.87	21.77	21.85	21.75			
5	HQAM	12	7	21.82	21.92	21.83	21.86	21.79			
5	HQAM	11	13	21.80	21.86	21.79	21.80	21.72			
5	HQAM	25	0	21.83	21.80	21.83	21.88	21.75		20.7	
5	SSBQAM	1	0	19.87	19.73	19.81	19.53	19.33			
5	SSBQAM	1	12	19.79	19.66	19.69	19.73	19.73			
5	SSBQAM	1	24	19.71	19.78	19.70	19.26	19.56			
5	SSBQAM	12	0	20.04	20.00	20.06	19.99	19.92			
5	SSBQAM	12	7	20.02	20.01	20.02	20.00	20.02			
5	SSBQAM	12	13	20.06	19.92	20.01	19.81	19.95		20.7	
5	SSBQAM	25	0	20.05	19.96	20.02	19.86	19.69			



Band 41 HPUE_Ant 2												
BR (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Power High2 Ch / Freq	Power High3 Ch / Freq	Power High4 Ch / Freq	Power High5 Ch / Freq	Tune-up limit (dBm)	
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2565	2610	2655	2700	2745	2790	2835	2880	
20	QPSK	1	0	26.30	26.35	26.33	26.26	26.05			27.5	
20	QPSK	1	49	26.57	26.36	26.26	26.54	26.81			27.5	
20	QPSK	1	99	26.50	26.36	26.50	26.14	26.28			27.5	
20	QPSK	50	0	25.57	25.64	25.54	25.60	25.48			26.5	
20	QPSK	50	34	25.71	25.61	25.67	25.77	25.66			26.5	
20	QPSK	50	50	25.57	25.66	25.54	25.60	25.63			26.5	
20	HQAM	1	0	25.67	25.72	25.71	25.87	25.82			26.5	
20	HQAM	1	49	25.86	25.72	25.83	25.89	25.90			26.5	
20	HQAM	1	99	25.84	25.73	25.83	25.49	25.69			26.5	
20	HQAM	50	0	24.81	24.68	24.67	24.63	24.63			25.5	
20	HQAM	50	24	24.81	24.68	24.58	24.81	24.68			25.5	
20	HQAM	50	50	24.81	24.70	24.58	24.65	24.65			25.5	
20	HQAM	100	0	24.62	24.68	24.58	24.67	24.59			25.5	
20	HQAM	1	0	24.48	24.50	24.40	24.46	24.28			25.5	
20	HQAM	1	49	24.51	24.58	24.62	24.85	24.84			25.5	
20	HQAM	1	99	24.50	24.61	24.52	24.38	23.91			25.5	
20	HQAM	50	0	23.68	23.70	23.58	23.66	23.56			24.5	
20	HQAM	50	24	23.53	23.70	23.58	23.77	23.65			24.5	
20	HQAM	50	50	23.63	23.71	23.58	23.68	23.52			24.5	
20	HQAM	100	0	23.62	23.69	23.57	23.68	23.56			24.5	
20	SSBQAM	1	0	21.75	21.78	21.84	21.77	21.56			22.5	
20	SSBQAM	1	49	21.84	21.68	21.70	21.52	21.84			22.5	
20	SSBQAM	1	99	21.73	21.77	21.75	21.49	21.84			22.5	
20	SSBQAM	50	0	21.69	21.91	21.91	21.92	21.78			22.5	
20	SSBQAM	50	34	21.68	21.88	21.87	22.01	21.82			22.5	
20	SSBQAM	50	50	21.81	21.86	21.85	21.82	21.85			22.5	
20	SSBQAM	100	0	21.84	21.83	21.83	21.88	21.79			22.5	
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2925	2970	3015	3060	3105	3150	3195	3240	
15	QPSK	1	0	26.53	26.41	26.36	26.49	26.25			27.5	
15	QPSK	1	37	26.34	26.43	26.33	26.40	26.43			27.5	
15	QPSK	1	74	26.38	26.52	26.42	26.40	26.43			27.5	
15	QPSK	36	0	25.47	25.61	25.64	25.63	25.53			26.5	
15	QPSK	36	30	25.56	25.63	25.55	25.68	25.62			26.5	
15	QPSK	36	50	25.56	25.63	25.52	25.65	25.61			26.5	
15	QPSK	1	0	25.06	25.63	25.61	25.63	25.59			26.5	
15	HQAM	1	0	25.60	25.71	25.67	25.78	25.56			26.5	
15	HQAM	1	37	25.64	25.64	25.64	25.68	25.62			26.5	
15	HQAM	1	74	25.59	25.62	25.71	25.70	25.68			26.5	
15	HQAM	36	0	24.46	24.58	24.50	24.63	24.49			25.5	
15	HQAM	36	29	24.53	24.58	24.50	24.55	24.61			25.5	
15	HQAM	36	59	24.55	24.52	24.50	24.66	24.60			25.5	
15	HQAM	79	0	24.57	24.63	24.50	24.63	24.58			25.5	
15	HQAM	1	0	24.41	24.61	24.60	24.61	24.59			25.5	
15	HQAM	1	37	24.51	24.58	24.48	24.61	24.51			25.5	
15	HQAM	1	74	24.51	24.71	24.68	24.51	24.58			25.5	
15	HQAM	36	0	23.49	23.62	23.55	23.65	23.54			24.5	
15	HQAM	36	20	23.58	23.66	23.54	23.70	23.56			24.5	
15	HQAM	36	59	23.58	23.62	23.64	23.69	23.49			24.5	
15	HQAM	79	0	23.58	23.66	23.55	23.65	23.58			24.5	
15	HQAM	1	0	21.79	21.76	21.78	21.76	21.73			22.5	
15	SSBQAM	1	37	21.55	21.64	21.50	21.52	21.51			22.5	
15	SSBQAM	1	74	21.71	21.71	21.67	21.48	21.64			22.5	
15	SSBQAM	36	0	21.65	21.81	21.80	21.82	21.74			22.5	
15	SSBQAM	36	50	21.81	21.78	21.88	21.86	21.86			22.5	
15	SSBQAM	36	59	21.75	21.76	21.85	21.75	21.86			22.5	
15	SSBQAM	59	0	21.60	21.78	21.88	21.85	21.71			22.5	
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				3285	3330	3375	3420	3465	3510	3555	3600	
10	QPSK	1	0	26.30	26.35	26.40	26.29	26.24			27.5	
10	QPSK	1	25	26.53	26.42	26.32	26.53	26.40			27.5	
10	QPSK	1	50	26.43	26.51	26.33	26.40	26.40			27.5	
10	QPSK	25	0	25.65	25.63	25.54	25.64	25.59			26.5	
10	QPSK	25	12	25.67	25.67	25.56	25.60	25.67			26.5	
10	QPSK	25	24	25.57	25.65	25.64	25.72	25.67			26.5	
10	QPSK	50	0	25.57	25.68	25.54	25.73	25.67			26.5	
10	HQAM	1	0	25.71	25.77	25.75	25.86	25.60			26.5	
10	HQAM	1	25	25.71	25.80	25.71	25.82	25.77			26.5	
10	HQAM	1	49	25.74	25.84	25.71	25.71	25.52			26.5	
10	HQAM	25	0	24.54	24.62	24.58	24.68	24.64			25.5	
10	HQAM	25	12	24.59	24.70	24.61	24.66	24.71			25.5	
10	HQAM	50	0	24.66	24.63	24.59	24.73	24.58			25.5	
10	HQAM	50	12	24.55	24.70	24.59	24.76	24.61			25.5	
10	HQAM	1	0	24.88	24.65	24.64	24.52	24.48			25.5	
10	HQAM	1	25	24.64	24.60	24.61	24.50	24.52			25.5	
10	HQAM	1	49	24.65	24.75	24.62	24.60	24.21			25.5	
10	HQAM	25	0	23.60	23.70	23.64	23.72	23.60			24.5	
10	HQAM	25	12	23.67	23.75	23.67	23.61	23.59			24.5	
10	HQAM	50	0	23.63	23.73	23.62	23.79	23.48			24.5	
10	HQAM	50	0	23.69	23.66	23.61	23.77	23.48			24.5	
10	SSBQAM	1	0	21.69	21.71	21.77	21.67	21.44			22.5	
10	SSBQAM	1	25	21.64	21.60	21.70	21.69	21.63			22.5	
10	SSBQAM	1	49	21.65	21.75	21.66	21.47	21.78			22.5	
10	SSBQAM	25	0	21.88	21.81	21.90	21.89	21.73			22.5	
10	SSBQAM	25	12	21.80	21.86	21.90	21.94	21.87			22.5	
10	SSBQAM	50	0	21.79	21.78	21.70	21.72	21.78			22.5	
10	SSBQAM	50	0	21.82	21.83	21.80	21.85	21.73			22.5	
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				3645	3690	3735	3780	3825	3870	3915	3960	
5	QPSK	1	0	26.38	26.43	26.36	26.53	26.46			27.5	
5	QPSK	1	19	26.38	26.46	26.30	26.52	26.46			27.5	
5	QPSK	1	24	26.40	26.43	26.34	26.51	26.36			27.5	
5	QPSK	12	0	25.65	25.62	25.53	25.72	25.69			26.5	
5	QPSK	12	7	25.61	25.64	25.54	25.76	25.67			26.5	
5	QPSK	12	13	25.67	25.64	25.55	25.78	25.64			26.5	
5	QPSK	25	0	25.53	25.61	25.54	25.66	25.58			26.5	
5	HQAM	1	0	25.76	25.78	25.72	25.84	25.78			26.5	
5	HQAM	1	12	25.70	25.80	25.73	25.81	25.74			26.5	
5	HQAM	1	24	25.72	25.81	25.76	25.90	25.79			26.5	
5	HQAM	12	0	24.59	24.64	24.58	24.76	24.65			25.5	
5	HQAM	12	7	24.63	24.69	24.64	24.76	24.70			25.5	
5	HQAM	12	13	24.58	24.67	24.60	24.80	24.64			25.5	
5	HQAM	25	0	24.60	24.65	24.60	24.76	24.66			25.5	
5	HQAM	1	0	24.61	24.66	24.60	24.76	24.67			25.5	
5	HQAM	1	12	24.60	24.69	24.61	24.84	24.52			25.5	
5	HQAM	1	24									



Band 48_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Take-up (dBm)	
Channel				5640	5680	5720	5660	(dBm)	
Frequency (MHz)				5650	5690	5730	5670		
20	QPSK	1	0	22.10	22.18	22.26	22.16	23.3	
20	QPSK	1	49	22.12	22.18	22.20	22.19	23.3	
20	QPSK	1	99	22.22	22.31	22.38	22.29	23.3	
20	QPSK	50	0	22.23	22.27	22.45	22.21	23.3	
20	QPSK	50	24	22.27	22.29	22.48	22.29	23.3	
20	QPSK	50	50	22.26	22.31	22.39	22.17	23.3	
20	QPSK	100	0	22.23	22.31	22.46	22.23	23.3	
20	16QAM	1	0	22.14	22.18	22.24	22.16	23.3	
20	16QAM	1	49	22.08	22.25	22.41	22.19	23.3	
20	16QAM	1	99	22.26	22.46	22.54	22.33	23.3	
20	16QAM	50	0	22.16	22.18	22.20	22.18	23.3	
20	16QAM	50	24	22.18	22.28	22.53	22.28	23.3	
20	16QAM	50	50	22.17	22.26	22.44	22.22	23.3	
20	16QAM	100	0	22.17	22.25	22.50	22.28	23.3	
20	64QAM	1	0	21.68	21.86	21.99	21.88	23.3	
20	64QAM	1	49	21.68	21.86	21.99	21.77	23.3	
20	64QAM	1	99	21.87	22.03	22.09	21.87	23.3	
20	64QAM	50	0	21.44	21.49	21.48	21.47	23.3	
20	64QAM	50	24	21.48	21.65	21.81	21.57	23.3	
20	64QAM	50	50	21.48	21.66	21.73	21.52	23.3	
20	64QAM	100	0	21.66	21.64	21.80	21.56	23.3	
20	256QAM	1	0	19.20	19.33	19.59	19.40	20.7	
20	256QAM	1	49	19.14	19.31	19.50	19.28	20.7	
20	256QAM	1	99	19.30	19.49	19.60	19.38	20.7	
20	256QAM	50	0	19.51	19.64	19.81	19.66	20.7	
20	256QAM	50	24	19.52	19.65	19.82	19.64	20.7	
20	256QAM	50	50	19.51	19.65	19.77	19.58	20.7	
20	256QAM	100	0	19.59	19.61	19.78	19.61	20.7	
Channel				5720	5680	5640	5660	Take-up (dBm)	
Frequency (MHz)				5710	5690	5670	5650		
15	QPSK	1	0	21.03	22.18	22.20	22.09	23.3	
15	QPSK	1	49	21.02	22.18	22.20	22.09	23.3	
15	QPSK	1	74	22.01	22.24	22.35	22.19	23.3	
15	QPSK	36	0	22.10	22.20	22.41	22.18	23.3	
15	QPSK	36	20	22.05	22.28	22.39	22.15	23.3	
15	QPSK	36	39	22.11	22.30	22.39	22.07	23.3	
15	QPSK	0	0	22.06	22.29	22.38	22.19	23.3	
15	16QAM	1	0	22.14	22.24	22.45	22.29	23.3	
15	16QAM	1	37	21.46	21.46	21.46	21.46	23.3	
15	16QAM	1	74	22.19	22.46	22.51	22.30	23.3	
15	16QAM	36	0	22.13	22.25	22.41	22.28	23.3	
15	16QAM	36	20	22.11	22.32	22.47	22.24	23.3	
15	16QAM	36	39	22.12	22.27	22.42	22.12	23.3	
15	64QAM	1	0	21.60	21.77	21.94	21.82	23.3	
15	64QAM	1	37	21.64	21.81	21.98	21.68	23.3	
15	64QAM	1	74	21.79	22.06	22.26	21.78	23.3	
15	64QAM	36	0	21.57	21.52	21.75	21.48	23.3	
15	64QAM	36	20	21.40	21.56	21.72	21.46	23.3	
15	64QAM	36	39	21.44	21.60	21.85	21.48	23.3	
15	64QAM	75	0	21.37	21.62	21.75	21.53	23.3	
15	256QAM	1	0	19.26	19.26	19.26	19.26	20.7	
15	256QAM	1	37	19.09	19.35	19.42	19.22	20.7	
15	256QAM	1	74	19.28	19.49	19.43	19.38	20.7	
15	256QAM	36	0	19.44	19.54	19.71	19.50	20.7	
15	256QAM	36	20	19.48	19.64	19.74	19.60	20.7	
15	256QAM	36	39	19.40	19.68	19.69	19.53	20.7	
15	256QAM	75	0	19.46	19.50	19.77	19.52	20.7	
Channel				5660	5680	5616	5680	Take-up (dBm)	
Frequency (MHz)				5650	5670	5630	5670		
10	QPSK	1	0	21.08	22.16	22.20	22.14	23.3	
10	QPSK	1	25	22.00	22.15	22.22	21.97	23.3	
10	QPSK	1	49	22.03	22.22	22.37	22.18	23.3	
10	QPSK	25	0	22.01	22.24	22.35	22.21	23.3	
10	QPSK	25	12	22.08	22.27	22.39	22.21	23.3	
10	QPSK	25	24	22.14	22.29	22.34	22.14	23.3	
10	QPSK	50	0	22.06	22.23	22.40	22.15	23.3	
10	16QAM	1	0	22.10	22.26	22.46	22.30	23.3	
10	16QAM	1	26	22.03	22.25	22.40	22.19	23.3	
10	16QAM	1	49	22.16	22.36	22.46	22.32	23.3	
10	16QAM	25	0	22.09	22.28	22.46	22.25	23.3	
10	16QAM	25	12	22.17	22.36	22.45	22.22	23.3	
10	16QAM	25	24	22.12	22.29	22.44	22.16	23.3	
10	16QAM	50	0	22.15	22.25	22.45	22.23	23.3	
10	64QAM	1	0	21.59	21.85	21.95	21.79	23.3	
10	64QAM	1	26	21.60	21.86	21.92	21.70	23.3	
10	64QAM	1	49	21.85	22.02	22.03	21.85	23.3	
10	64QAM	25	0	21.43	21.64	21.70	21.48	23.3	
10	64QAM	25	12	21.38	21.71	21.74	21.49	23.3	
10	64QAM	25	24	21.45	21.58	21.69	21.49	23.3	
10	64QAM	50	0	21.46	21.56	21.74	21.52	23.3	
10	64QAM	50	0	19.16	19.27	19.50	19.32	20.7	
10	256QAM	1	25	19.08	19.27	19.43	19.22	20.7	
10	256QAM	1	49	19.12	19.41	19.48	19.32	20.7	
10	256QAM	25	0	19.51	19.55	19.79	19.64	20.7	
10	256QAM	25	12	19.48	19.69	19.75	19.63	20.7	
10	256QAM	25	24	19.47	19.55	19.67	19.53	20.7	
10	256QAM	50	0	19.48	19.54	19.70	19.53	20.7	
Channel				5670	5670	5630	5670	Take-up (dBm)	
Frequency (MHz)				5660	5670	5630	5670		
5	QPSK	1	0	21.64	22.10	22.29	22.14	23.3	
5	QPSK	1	14	21.68	22.13	22.21	21.98	23.3	
5	QPSK	1	24	22.07	22.29	22.29	22.17	23.3	
5	QPSK	12	0	22.05	22.24	22.45	22.19	23.3	
5	QPSK	12	7	22.12	22.21	22.45	22.13	23.3	
5	QPSK	12	13	22.14	22.34	22.31	22.11	23.3	
5	QPSK	25	0	22.03	22.27	22.38	22.18	23.3	
5	16QAM	1	0	22.09	22.33	22.50	22.23	23.3	
5	16QAM	1	12	22.06	22.15	22.35	22.18	23.3	
5	16QAM	1	24	22.25	22.44	22.48	22.24	23.3	
5	16QAM	12	0	22.13	22.25	22.43	22.22	23.3	
5	16QAM	12	7	22.14	22.27	22.43	22.21	23.3	
5	16QAM	12	13	22.13	22.33	22.35	22.20	23.3	
5	16QAM	25	0	22.07	22.32	22.48	22.18	23.3	
5	64QAM	1	0	21.62	21.83	22.19	21.85	23.3	
5	64QAM	1	12	21.68	21.78	21.95	21.68	23.3	
5	64QAM	1	24	21.67	21.98	22.01	21.67	23.3	
5	64QAM	12	0	21.39	21.65	21.70	21.52	23.3	
5	64QAM	12	7	21.40	21.62	21.80	21.53	23.3	
5	64QAM	12	13	21.44	21.68	21.87	21.42	23.3	
5	64QAM	25	0	21.38	21.58	21.80	21.52	23.3	
5	256QAM	1	0	19.16	19.27	19.50	19.35	20.7	
5	256QAM	1	12	19.08	19.25	19.48	19.18	20.7	
5	256QAM	1	24	19.28	19.48	19.47	19.27	20.7	
5	256QAM	12	0	19.48	19.63	19.75	19.62	20.7	
5	256QAM	12	7	19.53	19.65	19.76	19.62	20.7	
5	256QAM	12	13	19.42	19.61	19.67	19.48	20.7	
5	256QAM	25	0	19.47	19.55	19.74	19.53	20.7	



Band 38_Ant 0										
BW (MHz)	Modulation	RB Start	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq			
Channel				3860	3800	3850				
Frequency (MHz)				2590	2590	2590				
20	QPSK	1	0	2342	2333	2325	20.2			
20	QPSK	1	49	2342	2336	2327				
20	QPSK	1	99	2342	2338	2329				
20	QPSK	50	0	2259	2242	2240	24.2			
20	QPSK	50	24	2259	2242	2241				
20	QPSK	50	50	2259	2242	2240				
20	QPSK	100	0	2259	2241	2242	24.2			
20	16QAM	1	0	2257	2248	2249				
20	16QAM	1	49	2252	2248	2237				
20	16QAM	1	99	2257	2247	2244	20.2			
20	16QAM	50	0	2142	2145	2144				
20	16QAM	50	24	2159	2144	2144				
20	16QAM	50	50	2150	2144	2145	20.2			
20	16QAM	100	0	2159	2144	2144				
20	8QAM	1	0	2128	2122	2122				
20	8QAM	1	49	2133	2128	2125	20.2			
20	8QAM	1	99	2137	2129	2129				
20	8QAM	50	0	2048	2044	2044				
20	8QAM	50	24	2053	2047	2045	20.2			
20	8QAM	50	50	2059	2045	2044				
20	8QAM	100	0	2050	2042	2044				
20	256QAM	1	0	1846	1838	1836	20.2			
20	256QAM	1	49	1835	1826	1827				
20	256QAM	1	99	1834	1828	1824				
20	256QAM	50	0	1871	1852	1850	20.2			
20	256QAM	50	24	1856	1852	1852				
20	256QAM	50	50	1843	1839	1833				
20	256QAM	100	0	1842	1847	1848	20.2			
Channel				3860	3800	3850				
Frequency (MHz)				2177.5	2169	2172.5				
15	QPSK	1	0	2138	2128	2121	20.2			
15	QPSK	1	49	2140	2134	2127				
15	QPSK	1	74	2134	2123	2127				
15	QPSK	36	0	2256	2234	2234	24.2			
15	QPSK	36	20	2252	2239	2239				
15	QPSK	36	39	2246	2242	2230				
15	QPSK	75	0	2249	2231	2240	24.2			
15	16QAM	1	0	2247	2242	2234				
15	16QAM	1	37	2242	2242	2237				
15	16QAM	1	74	2254	2239	2237	20.2			
15	16QAM	36	0	2159	2141	2144				
15	16QAM	36	20	2148	2137	2141				
15	16QAM	36	39	2158	2137	2139	20.2			
15	8QAM	75	0	2151	2144	2138				
15	8QAM	1	0	2125	2129	2121				
15	8QAM	1	37	2131	2123	2122	20.2			
15	8QAM	1	74	2132	2128	2123				
15	8QAM	36	0	2057	2044	2040				
15	8QAM	36	20	2051	2043	2037	20.2			
15	8QAM	36	39	2050	2045	2037				
15	8QAM	75	0	2054	2037	2039				
15	256QAM	1	0	1839	1837	1837	20.2			
15	256QAM	1	37	1831	1825	1825				
15	256QAM	1	74	1832	1823	1823				
15	256QAM	36	0	1843	1842	1846	20.2			
15	256QAM	36	20	1843	1847	1845				
15	256QAM	36	39	1853	1838	1831				
15	256QAM	75	0	1841	1847	1838	20.2			
Channel				3860	3800	3850				
Frequency (MHz)				2592	2590	2592				
10	QPSK	1	0	2338	2327	2321	20.2			
10	QPSK	1	25	2334	2334	2327				
10	QPSK	1	49	2331	2328	2324				
10	QPSK	25	0	2255	2241	2236	24.2			
10	QPSK	25	12	2253	2239	2233				
10	QPSK	25	24	2253	2239	2233				
10	QPSK	50	0	2251	2236	2236	24.2			
10	16QAM	1	0	2247	2238	2231				
10	16QAM	1	25	2244	2239	2237				
10	16QAM	1	49	2254	2246	2234	20.2			
10	16QAM	25	0	2159	2143	2142				
10	16QAM	25	12	2155	2139	2134				
10	16QAM	25	20	2153	2144	2144	20.2			
10	16QAM	50	0	2152	2145	2142				
10	8QAM	1	0	2127	2122	2122				
10	8QAM	1	25	2127	2122	2122	20.2			
10	8QAM	1	49	2133	2121	2123				
10	8QAM	25	0	2052	2041	2039				
10	8QAM	25	12	2058	2044	2038	20.2			
10	8QAM	25	20	2055	2042	2038				
10	8QAM	50	0	2055	2036	2037				
10	256QAM	1	0	1839	1831	1832	20.2			
10	256QAM	1	25	1838	1824	1821				
10	256QAM	1	49	1831	1824	1822				
10	256QAM	25	0	1834	1842	1846	20.2			
10	256QAM	25	12	1834	1843	1835				
10	256QAM	25	20	1836	1830	1824				
10	256QAM	50	0	1838	1841	1845	20.2			
Channel				3860	3800	3850				
Frequency (MHz)				2592.5	2590	2592.5				
5	QPSK	1	0	2339	2324	2325	20.2			
5	QPSK	1	14	2341	2328	2329				
5	QPSK	1	24	2332	2321	2321				
5	QPSK	12	0	2256	2234	2231	24.2			
5	QPSK	12	7	2248	2235	2235				
5	QPSK	12	13	2245	2232	2238				
5	QPSK	25	0	2253	2241	2237	24.2			
5	16QAM	1	0	2247	2242	2238				
5	16QAM	1	12	2244	2244	2238				
5	16QAM	1	24	2254	2242	2239	20.2			
5	16QAM	12	0	2154	2143	2137				
5	16QAM	12	7	2159	2139	2144				
5	16QAM	12	13	2159	2143	2139	20.2			
5	16QAM	25	0	2159	2140	2134				
5	8QAM	1	0	2130	2129	2122				
5	8QAM	1	12	2131	2123	2123	20.2			
5	8QAM	1	24	2130	2123	2121				
5	8QAM	12	0	2054	2035	2038				
5	8QAM	12	7	2056	2037	2035	20.2			
5	8QAM	12	13	2053	2046	2038				
5	8QAM	25	0	2040	2035	2042				
5	256QAM	1	0	1845	1837	1834	20.2			
5	256QAM	1	12	1838	1824	1827				
5	256QAM	1	24	1838	1820	1822				
5	256QAM	12	0	1843	1851	1846	20.2			
5	256QAM	12	7	1843	1842	1842				
5	256QAM	12	13	1836	1839	1827				
5	256QAM	25	0	1832	1829	1846	20.2			



Band 41_Ant 0											
BR [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)
Channel				3950	4010	4060	4105	4140			
Frequency (MHz)											
25.5											
20	QPSK	1	0	23.93	23.99	23.83	23.74	23.72			
20	QPSK	1	49	23.99	24.01	23.84	24.09	24.02	25.5		
20	QPSK	1	99	23.98	23.98	23.80	23.78	23.84			
20	QPSK	50	0	23.18	23.19	22.95	22.97	22.98			
20	QPSK	50	34	23.18	23.19	22.94	23.12	23.10	24.5		
20	QPSK	50	50	23.14	23.18	22.93	23.03	23.11			
20	QPSK	100	0	23.15	23.19	22.95	23.03	23.05			
20	HQAM	1	0	23.11	23.13	22.97	22.86	22.92	24.5		
20	HQAM	1	49	23.10	23.11	22.89	23.15	23.13			
20	HQAM	1	99	23.11	23.12	22.96	22.88	22.91			
20	HQAM	50	0	22.19	22.21	21.97	22.01	21.91	23.5		
20	HQAM	50	24	22.20	22.21	21.99	22.17	22.18			
20	HQAM	50	50	22.18	22.18	21.97	22.05	22.15			
20	HQAM	100	0	22.15	22.21	21.94	22.04	22.08			
20	HQAM	1	0	21.80	21.84	21.59	21.52	21.42	23.5		
20	HQAM	1	49	21.85	21.84	21.68	21.82	21.88			
20	HQAM	1	99	21.87	21.91	21.72	21.87	21.78			
20	HQAM	50	0	21.18	21.24	21.00	21.00	21.00	22.5		
20	HQAM	50	24	21.15	21.24	21.00	21.17	21.17			
20	HQAM	50	50	21.19	21.21	20.97	21.05	21.14			
20	HQAM	100	0	21.18	21.23	21.00	21.07	21.07			
20	SSBQAM	1	0	19.03	18.94	18.62	18.70	18.59	20.5		
20	SSBQAM	1	49	18.93	18.88	18.74	18.92	18.85			
20	SSBQAM	1	99	18.99	19.00	18.74	18.94	18.93			
20	SSBQAM	50	0	19.31	19.20	19.11	19.15	19.11	20.5		
20	SSBQAM	50	34	19.25	19.21	19.00	19.20	19.20			
20	SSBQAM	50	50	19.22	19.18	19.02	19.08	19.16			
20	SSBQAM	100	0	19.20	19.19	19.02	19.09	19.12			
Channel											
Frequency (MHz)											
25.5											
15	QPSK	1	0	23.91	23.98	23.77	23.85	23.74	25.5		
15	QPSK	1	37	23.91	23.95	23.74	24.02	23.95			
15	QPSK	1	74	23.94	24.07	23.82	23.83	23.87			
15	QPSK	36	0	23.04	23.15	22.81	23.00	23.09	24.5		
15	QPSK	36	30	23.12	23.15	22.90	23.08	23.12			
15	QPSK	36	50	23.11	23.18	22.90	23.07	23.10			
15	QPSK	1	0	23.10	23.15	22.91	23.00	23.08	24.5		
15	HQAM	1	37	23.88	23.93	23.69	23.84	23.74			
15	HQAM	1	74	23.14	23.25	23.01	22.92	23.11			
15	HQAM	36	0	22.01	22.13	21.90	21.98	21.99	23.5		
15	HQAM	36	26	22.02	22.14	21.89	22.03	22.07			
15	HQAM	36	50	22.09	22.11	21.87	22.04	22.07			
15	HQAM	79	0	22.13	22.17	21.96	22.04	22.07			
15	HQAM	1	0	21.12	21.84	21.62	21.74	21.97	23.5		
15	HQAM	1	37	21.85	21.84	21.64	21.93	21.89			
15	HQAM	1	74	21.89	21.96	21.74	21.86	21.86			
15	HQAM	36	0	21.00	21.20	20.95	21.03	21.03	22.5		
15	HQAM	36	20	21.15	21.16	20.95	21.09	21.14			
15	HQAM	36	50	21.16	21.19	20.96	21.09	21.14			
15	HQAM	75	0	21.18	21.19	20.95	21.02	21.08			
15	SSBQAM	1	0	19.03	18.96	18.70	18.80	18.67	20.5		
15	SSBQAM	1	37	18.94	18.94	18.70	18.94	18.91			
15	SSBQAM	1	74	18.94	18.93	18.69	18.45	18.74			
15	SSBQAM	36	0	19.25	19.13	19.05	19.07	19.03	20.5		
15	SSBQAM	36	20	19.23	19.13	19.07	19.23	19.21			
15	SSBQAM	36	50	19.20	19.11	18.94	19.03	19.07			
15	SSBQAM	75	0	19.17	19.08	18.97	18.99	19.12			
Channel											
Frequency (MHz)											
25.5											
10	QPSK	1	0	23.91	23.94	23.70	23.83	23.72	25.5		
10	QPSK	1	25	23.81	23.85	23.70	24.02	23.87			
10	QPSK	1	49	23.94	23.98	23.81	23.77	23.86			
10	QPSK	25	0	23.03	23.10	22.80	22.85	22.91	24.5		
10	QPSK	25	12	23.03	23.13	22.80	23.00	23.09			
10	QPSK	25	24	23.06	23.07	22.82	23.00	23.09			
10	QPSK	50	0	23.05	23.12	22.84	22.93	22.96	24.5		
10	HQAM	1	0	23.00	23.06	22.86	23.03	23.05			
10	HQAM	1	25	22.97	22.93	22.80	23.05	23.02			
10	HQAM	1	49	23.10	23.20	23.00	22.91	23.00	23.5		
10	HQAM	35	0	21.04	22.07	21.86	21.93	21.99			
10	HQAM	24	12	22.00	22.14	21.85	22.02	22.00			
10	HQAM	36	26	22.07	22.02	21.86	21.86	22.05			
10	HQAM	36	50	22.08	22.08	21.93	21.89	22.05			
10	HQAM	1	0	21.70	21.79	21.65	21.86	21.51	23.5		
10	HQAM	1	36	21.77	21.80	21.60	21.86	21.79			
10	HQAM	25	0	21.00	21.20	20.97	20.96	20.97	22.5		
10	HQAM	35	12	21.07	21.13	20.91	20.99	21.07			
10	HQAM	35	25	21.09	21.12	20.92	21.07	21.07			
10	HQAM	50	0	21.14	21.17	20.98	20.99	21.04			
10	SSBQAM	1	0	19.09	18.97	18.90	18.70	18.58	20.5		
10	SSBQAM	1	25	18.99	18.83	18.89	18.90	18.87			
10	SSBQAM	1	49	18.98	18.91	18.71	18.40	18.60			
10	SSBQAM	25	0	19.25	19.13	19.07	19.05	19.08	20.5		
10	SSBQAM	25	12	19.21	19.12	19.07	19.27	19.24			
10	SSBQAM	35	25	19.17	19.15	18.95	19.08	19.09			
10	SSBQAM	50	0	19.18	19.05	19.01	19.01	19.03			
Channel											
Frequency (MHz)											
25.5											
5	QPSK	1	0	23.84	23.94	23.73	23.81	23.72	25.5		
5	QPSK	1	12	23.80	23.91	23.70	23.92	23.85			
5	QPSK	1	24	23.87	23.99	23.80	23.79	23.92			
5	QPSK	12	0	23.01	23.09	22.84	23.04	23.05	24.5		
5	QPSK	12	7	23.12	23.15	22.91	22.98	23.02			
5	QPSK	12	13	23.09	23.09	22.90	23.04	23.08			
5	QPSK	35	0	23.02	23.07	22.86	23.01	23.00	24.5		
5	HQAM	1	0	23.00	23.05	22.82	23.02	22.84			
5	HQAM	1	12	22.94	22.95	22.73	23.04	23.03	24.5		
5	HQAM	1	24	23.10	23.24	22.92	22.85	23.09			
5	HQAM	12	0	21.04	22.07	21.81	21.98	21.90	23.5		
5	HQAM	12	7	22.08	22.14	21.86	21.96	21.97			
5	HQAM	12	13	22.02	22.04	21.82	21.98	21.95			
5	HQAM	35	0	22.12	22.11	21.94	22.09	21.98	23.5		
5	HQAM	1	0	21.68	21.84	21.58	21.74	21.47	23.5		
5	HQAM	1	12	21.76	21.83	21.59	21.89	21.85			
5	HQAM	1	24	21.82	21.88	21.70	21.49	21.93			
5	HQAM	1	0	20.08	21.12	20.90	21.01	21.03	22.5		
5	HQAM	12	7	21.08	21.08	20.85	21.06	21.07			
5	HQAM	1	13	21.14	21.16	20.90	20.90	21.08			
5	HQAM	35	0	21.10	21.15	20.98	20.92	21.01			
5	SSBQAM	1	0	19.01	18.89	18.86	18.70	18.56	20.5		
5	SSBQAM	1	12	18.95	18.76	18.72	18.92	18.94			
5	SSBQAM	1	24	18.94	18.88	18.72	18.49	18.80			
5	SSBQAM	12	0	19.21	19.10	19.03	19.07	19.05	20.5		
5	SSBQAM	12	7	19.21	19.21	19.01	19.21	19.21			
5	SSBQAM	12	13	19.20	19.09	18.98	19.08	19.08			
5	SSBQAM	35	0	19.18	19.14	18.94	19.03	19.04			



Band 41 HPUE_Ant 0										
EAR (MHz)	Modulation	RB Size	RB Offset	Power Lvl Ch / Freq	Power Lvl Ch / Freq	Power Lvl Ch / Freq	Power Lvl Ch / Freq	Power Lvl Ch / Freq	Power Lvl Ch / Freq	Tune-up Int. [dBm]
Channel				3950	4010	4060	4105	4140		
Frequency (MHz)				2590	2640	2690	2740	2790		
20	QPSK	1	0	25.81	26.65	25.51	25.56	25.45		27
20	QPSK	1	49	25.81	26.69	25.26	25.87	25.84		
20	QPSK	1	99	25.79	26.66	25.91	25.45	25.24		
20	QPSK	50	0	24.38	24.48	24.73	24.89	24.89		
20	QPSK	50	34	24.69	24.99	24.71	24.93	25.03		
20	QPSK	50	50	24.35	24.97	24.75	24.91	25.02		
20	QPSK	100	0	24.98	24.99	24.73	24.93	24.96		
20	HQAM	1	0	24.99	24.99	24.68	24.92	24.76		
20	HQAM	1	49	24.99	25.01	24.82	25.18	25.20		
20	HQAM	1	99	25.02	25.04	24.94	24.77	25.07		
20	HQAM	50	0	23.99	24.01	23.78	23.91	23.93		
20	HQAM	50	24	24.50	24.04	23.77	24.96	24.07		
20	HQAM	50	50	24.01	24.01	23.71	23.86	24.04		
20	HQAM	100	0	23.98	24.01	23.75	23.98	23.99		
20	HQAM	1	0	23.81	23.84	23.65	23.73	23.82		
20	HQAM	1	49	23.87	23.82	23.66	24.05	24.09		
20	HQAM	1	99	23.89	23.88	23.71	23.80	23.92		
20	HQAM	50	0	23.81	23.82	23.65	23.73	23.82		
20	HQAM	50	24	23.99	23.05	22.75	23.06	23.05		
20	HQAM	50	50	23.01	23.01	22.80	22.97	23.04		
20	HQAM	100	0	23.00	23.03	22.75	22.90	22.97		
20	SSBQAM	1	0	20.86	20.85	20.80	20.88	20.86		
20	SSBQAM	1	49	20.88	20.74	20.81	20.93	21.11		
20	SSBQAM	1	99	20.87	20.81	20.81	20.96	20.95		
20	SSBQAM	50	0	21.11	21.04	20.94	20.95	21.06		
20	SSBQAM	50	34	21.08	21.00	20.81	21.12	21.02		
20	SSBQAM	50	50	21.03	21.00	20.81	20.95	21.05		
20	SSBQAM	100	0	21.02	20.97	20.85	20.99	20.97		
Channel				3950	4010	4060	4105	4140		
Frequency (MHz)				2650	2683	2691	2674	2692		
15	QPSK	1	0	25.51	26.37	25.46	25.53	25.26		27
15	QPSK	1	37	25.52	26.44	25.46	25.46	25.73		
15	QPSK	1	74	25.88	26.63	26.44	26.41	26.68		
15	QPSK	36	0	24.90	24.96	24.63	24.80	24.80		
15	QPSK	36	30	24.99	24.98	24.71	24.93	25.02		
15	QPSK	36	50	24.55	24.88	24.68	24.87	24.92		
15	QPSK	1	0	24.02	24.92	24.68	24.88	24.96		
15	HQAM	1	0	24.59	24.91	24.82	24.89	24.74		
15	HQAM	1	37	24.14	24.81	24.74	24.81	24.76		
15	HQAM	1	74	24.39	25.04	24.78	24.77	24.95		
15	HQAM	36	0	23.95	23.93	23.70	23.88	23.84		
15	HQAM	36	29	23.98	23.94	23.70	24.05	24.07		
15	HQAM	36	59	23.95	23.95	23.69	23.92	24.04		
15	HQAM	79	0	23.95	24.10	23.65	23.92	23.96		
15	HQAM	1	0	23.81	23.78	23.62	23.69	23.68		
15	HQAM	1	37	23.79	23.82	23.64	24.04	24.07		
15	HQAM	1	74	23.78	23.86	23.68	23.92	23.96		
15	HQAM	36	0	22.91	22.98	22.72	22.86	22.89		
15	HQAM	36	20	22.93	23.04	22.76	22.96	22.96		
15	HQAM	36	59	22.94	23.00	22.71	22.87	22.99		
15	HQAM	79	0	22.90	22.93	22.73	22.92	22.87		
15	SSBQAM	1	0	20.84	20.79	20.79	20.80	21.03		
15	SSBQAM	1	37	20.85	20.85	20.58	20.90	21.03		
15	SSBQAM	1	74	20.77	20.75	20.55	20.59	20.86		
15	SSBQAM	36	0	21.00	20.94	20.85	20.94	20.93		
15	SSBQAM	36	20	20.96	20.90	20.85	21.12	21.09		
15	SSBQAM	36	59	21.02	20.91	20.81	20.92	21.01		
15	SSBQAM	79	0	21.02	20.95	20.83	20.89	20.99		
Channel				3950	4010	4060	4105	4140		
Frequency (MHz)				2750	2793	2801	2784	2802		
10	QPSK	1	0	25.54	25.68	25.43	25.55	25.44		27
10	QPSK	1	25	25.53	25.58	25.34	25.89	25.77		
10	QPSK	1	49	25.63	25.64	25.45	25.45	25.73		
10	QPSK	25	0	24.92	24.98	24.63	24.88	24.81		
10	QPSK	25	12	24.90	24.98	24.64	24.92	24.97		
10	QPSK	25	24	24.94	24.96	24.67	24.89	24.91		
10	QPSK	50	0	24.91	24.93	24.69	24.91	24.90		
10	HQAM	1	0	24.94	24.97	24.68	24.91	24.72		
10	HQAM	1	25	24.94	24.98	24.81	25.12	25.17		
10	HQAM	1	49	24.98	25.00	24.77	24.75	25.05		
10	HQAM	25	0	23.93	23.97	23.68	23.82	23.89		
10	HQAM	25	12	23.98	23.97	23.70	24.06	24.07		
10	HQAM	25	24	23.91	23.92	23.71	23.89	24.03		
10	HQAM	50	0	23.94	23.97	23.71	23.92	23.95		
10	HQAM	50	1	23.79	23.77	23.59	23.69	23.59		
10	HQAM	1	0	23.81	23.84	23.65	24.01	24.01		
10	HQAM	1	49	23.82	23.82	23.65	23.52	23.88		
10	HQAM	25	0	22.94	22.98	22.76	22.87	22.88		
10	HQAM	25	12	22.99	23.00	22.70	23.06	22.96		
10	HQAM	25	25	22.97	22.98	22.74	22.87	23.01		
10	HQAM	50	0	22.94	22.96	22.68	22.90	22.98		
10	SSBQAM	1	0	20.39	20.84	20.74	20.84	20.79		
10	SSBQAM	1	25	20.85	20.74	20.54	20.86	21.09		
10	SSBQAM	1	49	20.82	20.78	20.51	20.51	20.68		
10	SSBQAM	25	0	21.95	20.99	20.83	20.90	20.92		
10	SSBQAM	25	12	20.98	20.98	20.80	21.05	21.07		
10	SSBQAM	25	25	20.94	20.90	20.80	20.91	20.99		
10	SSBQAM	50	0	20.97	20.89	20.75	20.99	20.91		
Channel				3950	4010	4060	4105	4140		
Frequency (MHz)				2815	2848	2856	2839	2857		
5	QPSK	1	0	25.58	25.65	25.42	25.48	25.41		27
5	QPSK	1	12	25.57	25.64	25.29	25.88	25.79		
5	QPSK	1	24	25.65	25.59	25.41	25.38	25.65		
5	QPSK	12	0	24.61	24.67	24.32	24.51	24.46		
5	QPSK	12	7	24.55	24.61	24.35	25.03	24.95		
5	QPSK	12	13	24.85	24.90	24.72	24.87	24.87		
5	QPSK	25	0	24.08	24.92	24.66	24.90	24.96		
5	HQAM	1	0	24.90	24.91	24.67	24.90	24.76		
5	HQAM	1	12	24.92	24.97	24.70	25.13	25.18		
5	HQAM	1	24	24.97	24.94	24.70	24.73	25.03		
5	HQAM	12	0	23.99	24.01	23.71	23.83	23.84		
5	HQAM	12	7	23.98	23.96	23.68	24.10	24.05		
5	HQAM	12	13	24.00	23.98	23.67	23.93	24.03		
5	HQAM	25	0	23.92	23.98	23.69	23.95	23.89		
5	HQAM	1	0	23.72	23.80	23.61	23.86	23.96		
5	HQAM	1	12	23.87	23.81	23.55	24.06	24.04		
5	HQAM	1	24	23.94	23.80	23.69	23.95	23.99		
5	HQAM	12	0	22.95	23.00	22.75	22.88	22.96		
5	HQAM	12	7	22.97	22.95	22.72	23.01	22.98		
5	HQAM	12	13	22.98	22.95	22.71	22.97	23.01		
5	HQAM	25	0	22.98	22.99	22.74	22.99	22.95		
5	SSBQAM	1	0	20.78	20.80	20.74	20.66	20.83		
5	SSBQAM	1	12	20.79	20.70	20.56	20.85	21.11		
5	SSBQAM	1	24	20.87	20.79	20.55	20.47	20.90		
5	SSBQAM	12	0	21.88	20.95	20.84	20.85	20.94		
5	SSBQAM	12	7	21.02	2					



Band 48_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Ch / Freq	Totals Ch / Freq	Totals dBm
Channel 5840									
Frequency (MHz)									
20	QPSK	1	0	22.85	22.82	22.88	22.81		24.1
20	QPSK	1	49	22.83	22.83	22.72	22.79		
20	QPSK	1	99	22.83	22.86	22.88	22.81		
20	QPSK	50	0	22.71	22.88	22.84	22.84		24.1
20	QPSK	50	24	22.86	22.81	22.81	22.86		
20	QPSK	50	50	22.82	22.73	22.79	22.80		
20	QPSK	100	0	22.99	22.76	22.77	22.85		
20	16QAM	1	0	22.77	22.82	22.80	22.80		24.1
20	16QAM	1	49	22.80	22.73	22.79	22.79		
20	16QAM	1	99	22.80	22.73	22.75	22.76		
20	16QAM	50	0	22.22	22.96	22.97	22.98		23.7
20	16QAM	50	24	22.18	22.91	22.91	22.91		
20	16QAM	50	50	22.13	22.96	22.91	22.93		
20	16QAM	100	0	22.17	22.90	22.87	22.98		
20	8QAM	1	0	22.00	22.14	22.15	22.20		23.7
20	8QAM	1	49	21.83	21.97	22.05	22.09		
20	8QAM	1	99	21.88	21.96	22.03	22.01		
20	8QAM	50	0	21.22	21.97	21.97	21.98		22.7
20	8QAM	50	24	21.19	21.93	21.93	21.91		
20	8QAM	50	50	21.15	21.98	21.92	21.91		
20	8QAM	100	0	21.18	21.92	21.93	21.90		
20	256QAM	1	0	18.85	19.09	19.04	19.31		20.7
20	256QAM	1	49	18.77	19.02	19.08	19.21		
20	256QAM	1	99	19.00	19.10	19.07	19.44		
20	256QAM	50	0	19.13	19.32	19.29	19.48		20.7
20	256QAM	50	24	19.16	19.28	19.24	19.48		
20	256QAM	50	50	19.14	19.37	19.40	19.48		
20	256QAM	100	0	19.03	19.30	19.36	19.55		
Channel 5850									
Frequency (MHz)									
15	QPSK	1	0	22.80	22.89	22.79	22.83		24.1
15	QPSK	1	49	22.82	22.89	22.71	22.83		
15	QPSK	1	74	22.80	22.86	22.89	22.83		
15	QPSK	36	0	22.70	22.76	22.83	22.82		24.1
15	QPSK	36	20	22.66	22.73	22.72	22.82		
15	QPSK	36	39	22.61	22.72	22.72	22.70		
15	QPSK	0	0	22.62	22.69	22.70	22.80		24.1
15	16QAM	1	0	22.70	22.81	22.80	22.89		
15	16QAM	1	37	22.77	22.77	22.77	22.71		
15	16QAM	1	74	22.59	22.72	22.75	22.87		
15	16QAM	36	0	22.22	22.27	22.31	22.36		23.7
15	16QAM	36	20	22.14	22.31	22.28	22.31		
15	16QAM	36	39	22.12	22.24	22.28	22.29		
15	8QAM	1	0	21.93	22.09	22.02	22.28		23.7
15	8QAM	1	37	21.78	21.88	22.01	21.83		
15	8QAM	1	74	21.86	21.86	21.93	21.98		
15	8QAM	36	0	21.20	21.27	21.30	21.30		22.7
15	8QAM	36	20	21.12	21.24	21.25	21.34		
15	8QAM	36	39	21.11	21.28	21.22	21.32		
15	8QAM	75	0	21.08	21.22	21.31	21.37		
15	256QAM	1	0	18.85	19.05	19.05	19.32		20.7
15	256QAM	1	37	18.75	19.05	19.05	19.25		
15	256QAM	1	74	18.97	19.12	19.25	19.43		
15	256QAM	36	0	19.13	19.30	19.31	19.52		20.7
15	256QAM	36	20	19.19	19.34	19.31	19.43		
15	256QAM	36	39	19.16	19.35	19.45	19.65		
15	256QAM	75	0	19.10	19.34	19.39	19.55		
Channel 5860									
Frequency (MHz)									
10	QPSK	1	0	22.65	22.75	22.81	22.83		24.1
10	QPSK	1	25	22.46	22.68	22.65	22.84		
10	QPSK	1	49	22.47	22.66	22.68	22.81		
10	QPSK	25	0	22.68	22.64	22.77	22.82		24.1
10	QPSK	25	12	22.60	22.69	22.70	22.80		
10	QPSK	25	24	22.63	22.69	22.70	22.84		
10	QPSK	50	0	22.81	22.70	22.70	22.84		24.1
10	16QAM	1	0	22.73	22.69	22.80	22.86		
10	16QAM	1	26	22.68	22.70	22.72	22.80		
10	16QAM	1	49	22.61	22.63	22.68	22.68		
10	16QAM	25	0	22.22	22.30	22.27	22.35		23.7
10	16QAM	25	12	22.08	22.23	22.23	22.40		
10	16QAM	25	24	22.04	22.19	22.08	22.26		
10	16QAM	50	0	22.11	22.35	22.17	22.33		
10	8QAM	1	0	21.91	22.11	22.12	22.10		23.7
10	8QAM	1	26	21.70	21.90	21.88	21.97		
10	8QAM	1	49	21.82	21.95	21.95	21.91		
10	8QAM	25	0	21.21	21.37	21.32	21.33		22.7
10	8QAM	25	12	21.15	21.30	21.32	21.32		
10	8QAM	25	24	21.11	21.18	21.22	21.22		
10	8QAM	50	0	21.11	21.28	21.23	21.50		20.7
10	256QAM	1	0	18.85	19.09	19.11	19.30		
10	256QAM	1	25	18.79	19.04	19.02	19.26		
10	256QAM	1	49	19.04	19.07	19.00	19.42		
10	256QAM	25	0	19.09	19.32	19.30	19.46		20.7
10	256QAM	25	12	19.11	19.31	19.33	19.60		
10	256QAM	25	24	19.15	19.31	19.49	19.58		
10	256QAM	50	0	19.10	19.34	19.35	19.48		
Channel 5870									
Frequency (MHz)									
5	QPSK	1	0	22.61	22.79	22.82	22.88		24.1
5	QPSK	1	12	22.46	22.68	22.71	22.88		
5	QPSK	1	24	22.53	22.63	22.61	22.59		
5	QPSK	12	0	22.70	22.64	22.71	22.74		24.1
5	QPSK	12	7	22.61	22.72	22.73	22.80		
5	QPSK	12	13	22.60	22.63	22.79	22.72		
5	QPSK	25	0	22.63	22.71	22.77	22.80		
5	16QAM	1	0	22.77	22.83	22.81	22.98		24.1
5	16QAM	1	12	22.63	22.71	22.75	22.71		
5	16QAM	1	24	22.67	22.67	22.70	22.73		
5	16QAM	12	0	22.18	22.20	22.34	22.34		23.7
5	16QAM	12	7	22.16	22.20	22.28	22.32		
5	16QAM	12	13	22.13	22.19	22.22	22.30		
5	16QAM	25	0	22.16	22.21	22.27	22.38		
5	8QAM	1	0	21.90	22.08	22.13	22.19		23.7
5	8QAM	1	12	21.75	21.96	22.01	21.93		
5	8QAM	1	24	21.88	21.93	22.00	22.01		
5	8QAM	12	0	21.23	21.35	21.33	21.37		22.7
5	8QAM	12	7	21.17	21.23	21.24	21.30		
5	8QAM	12	13	21.13	21.22	21.30	21.37		
5	8QAM	25	0	21.09	21.26	21.32	21.34		
5	256QAM	1	0	18.86	19.13	19.08	19.24		20.7
5	256QAM	1	12	18.72	19.00	19.04	19.20		
5	256QAM	1	24	18.96	19.09	19.27	19.35		
5	256QAM	12	0	19.08	19.26	19.25	19.41		20.7
5	256QAM	12	7	19.09	19.15	19.29	19.41		
5	256QAM	12	13	19.14	19.20	19.48	19.43		
5	256QAM	25	0	19.07	19.29	19.28	19.52		





Band 38_Ant 2										
BW (MHz)	Modulation	RB Start	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq			
Channel				3850	3800	3850				
Frequency (MHz)				2595	2595	2595				
20	QPSK	1	0	24.68	24.63	24.52	25.7			
20	QPSK	1	49	24.69	24.64	24.52				
20	QPSK	1	98	24.68	24.64	24.52				
20	QPSK	50	0	23.87	23.70	23.69	24.7			
20	QPSK	50	24	23.86	23.72	23.69				
20	QPSK	50	50	23.87	23.70	23.69				
20	QPSK	100	0	23.88	23.71	23.69	24.7			
20	16QAM	1	0	23.81	23.74	23.67				
20	16QAM	1	49	23.79	23.72	23.61				
20	16QAM	1	99	23.81	23.69	23.61	23.7			
20	16QAM	50	0	23.91	22.76	22.73				
20	16QAM	50	24	22.90	22.75	22.70				
20	16QAM	50	50	22.90	22.72	22.68	23.7			
20	16QAM	100	0	22.89	22.74	22.70				
20	64QAM	1	0	23.57	22.41	22.42				
20	64QAM	1	49	23.53	22.46	22.38	23.7			
20	64QAM	1	99	23.58	22.39	22.42				
20	64QAM	50	0	22.47	21.31	21.31				
20	64QAM	50	24	22.05	21.77	21.70	23.7			
20	64QAM	50	50	22.62	21.74	21.70				
20	64QAM	100	0	22.70	21.74	21.70				
20	256QAM	1	0	18.77	18.78	18.81	20.7			
20	256QAM	1	49	18.70	18.68	18.59				
20	256QAM	1	99	18.73	18.67	18.64				
20	256QAM	50	0	20.07	18.96	18.97	20.7			
20	256QAM	50	24	20.02	18.92	18.91				
20	256QAM	50	50	20.01	18.83	18.87				
20	256QAM	100	0	20.03	18.92	18.91	20.7			
Channel				3860	3800	3860				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	24.60	24.52	24.49	25.7			
15	QPSK	1	49	24.63	24.52	24.49				
15	QPSK	1	74	24.59	24.52	24.38				
15	QPSK	36	0	23.77	23.63	23.58	24.7			
15	QPSK	36	20	23.80	23.74	23.58				
15	QPSK	36	39	23.75	23.61	23.58				
15	QPSK	75	0	23.78	23.63	23.58	24.7			
15	16QAM	1	0	23.78	23.68	23.58				
15	16QAM	1	74	23.74	23.63	23.54				
15	16QAM	36	0	22.76	22.64	22.55	23.7			
15	16QAM	36	20	22.74	22.68	22.54				
15	16QAM	36	39	22.74	22.58	22.54				
15	64QAM	75	0	22.79	22.65	22.60	23.7			
15	64QAM	1	0	22.90	22.56	22.50				
15	64QAM	1	37	22.44	22.37	22.23				
15	64QAM	1	74	22.44	22.36	22.26	23.7			
15	64QAM	36	0	21.82	21.67	21.61				
15	64QAM	36	20	21.80	21.73	21.61				
15	64QAM	36	39	21.81	21.65	21.58	22.7			
15	64QAM	75	0	21.81	21.65	21.61				
15	256QAM	1	0	18.75	18.75	18.75				
15	256QAM	1	37	18.07	18.05	18.05	20.7			
15	256QAM	1	74	18.72	18.55	18.49				
15	256QAM	36	0	18.08	18.08	18.08				
15	256QAM	36	20	18.05	18.06	18.01	20.7			
15	256QAM	36	39	18.08	18.03	18.04				
15	256QAM	75	0	18.09	18.01	18.09				
Channel				3860	3800	3860				
Frequency (MHz)				2592.5	2595	2612.5				
10	QPSK	1	0	24.63	24.61	24.42	25.7			
10	QPSK	1	25	24.61	24.55	24.41				
10	QPSK	1	49	24.67	24.63	24.43				
10	QPSK	25	0	23.74	23.59	23.62	24.7			
10	QPSK	25	12	23.75	23.69	23.61				
10	QPSK	25	24	23.74	23.69	23.61				
10	QPSK	50	0	23.75	23.61	23.53	24.7			
10	16QAM	1	0	23.81	23.68	23.62				
10	16QAM	1	25	23.72	23.64	23.51				
10	16QAM	1	49	23.79	23.68	23.47	23.7			
10	16QAM	25	0	22.74	22.69	22.63				
10	16QAM	25	12	22.76	22.72	22.58				
10	16QAM	25	20	22.74	22.67	22.48	23.7			
10	16QAM	50	0	22.78	22.65	22.56				
10	64QAM	1	0	22.97	22.39	22.32				
10	64QAM	1	49	22.94	22.43	22.31	23.7			
10	64QAM	25	0	21.81	21.67	21.61				
10	64QAM	25	12	21.83	21.75	21.63				
10	64QAM	25	20	21.82	21.78	21.60	22.7			
10	64QAM	50	0	21.78	21.66	21.67				
10	256QAM	1	0	18.09	18.72	18.78				
10	256QAM	1	25	18.05	18.05	18.08	20.7			
10	256QAM	1	49	18.09	18.02	18.01				
10	256QAM	25	0	18.08	18.09	18.01				
10	256QAM	25	12	18.04	18.03	18.05	20.7			
10	256QAM	25	24	18.01	18.76	18.82				
10	256QAM	50	0	20.01	18.84	18.88				
Channel				3870	3800	3870				
Frequency (MHz)				2592.5	2595	2612.5				
5	QPSK	1	0	24.58	24.53	24.37	25.7			
5	QPSK	1	14	24.54	24.49	24.35				
5	QPSK	1	24	24.59	24.52	24.33				
5	QPSK	12	0	23.68	23.64	23.44	24.7			
5	QPSK	12	7	23.72	23.64	23.50				
5	QPSK	12	13	23.71	23.66	23.49				
5	QPSK	25	0	23.72	23.65	23.45	24.7			
5	16QAM	1	0	23.72	23.67	23.62				
5	16QAM	1	12	23.75	23.68	23.50				
5	16QAM	1	24	23.75	23.68	23.62	23.7			
5	16QAM	12	0	22.67	22.60	22.46				
5	16QAM	12	7	22.72	22.66	22.47				
5	16QAM	12	13	22.67	22.62	22.45	23.7			
5	16QAM	25	0	22.73	22.68	22.52				
5	64QAM	1	0	22.51	22.44	22.25				
5	64QAM	1	12	22.54	22.44	22.30	23.7			
5	64QAM	1	24	22.54	22.49	22.28				
5	64QAM	12	0	21.78	21.71	21.53				
5	64QAM	12	7	21.77	21.70	21.55	22.7			
5	64QAM	12	13	21.76	21.70	21.51				
5	64QAM	25	0	21.79	21.70	21.55				
5	256QAM	1	0	18.07	18.77	18.81	20.7			
5	256QAM	1	12	18.04	18.03	18.06				
5	256QAM	1	24	18.72	18.05	18.49				
5	256QAM	12	0	20.00	18.99	18.97	20.7			
5	256QAM	12	7	18.07	18.05	18.53				
5	256QAM	12	13	18.09	18.80	18.77				
5	256QAM	25	0	18.06	18.87	18.82	20.7			



Table with columns: BWP (MHz), Modulation, RB Size, RB Offset, Power, and Frequency (MHz). It lists various LTE configurations for Band 41\_Ant 2, including QPSK, 16QAM, 64QAM, and 256QAM across multiple subcarriers and frequencies.



Band 41 HPUE_Ant 2											
BR [MHz]	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Time-up limit (min)
Channel											
Frequency (MHz)				3970	4010	4050	4105	4140			
20	QPSK	1	0	26.30	26.35	26.33	26.26	26.05			27.5
20	QPSK	1	49	26.57	26.38	26.26	26.54	26.81			
20	QPSK	1	99	26.50	26.38	26.50	26.14	26.28			
20	QPSK	50	0	25.57	25.64	25.54	25.60	25.48			26.5
20	QPSK	50	34	25.67	25.67	25.67	25.77	25.68			
20	QPSK	50	50	25.57	25.68	25.54	25.60	25.53			
20	QPSK	100	0	25.57	25.68	25.54	25.63	25.56			26.5
20	HQAM	1	0	25.67	25.72	25.71	25.87	25.84			
20	HQAM	1	49	25.86	25.72	25.83	25.89	25.90			
20	HQAM	1	99	25.84	25.73	25.83	25.49	25.83			
20	HQAM	50	0	24.81	24.68	24.57	24.63	24.63			25.5
20	HQAM	50	24	24.81	24.68	24.58	24.81	24.68			
20	HQAM	50	50	24.81	24.70	24.57	24.65	24.65			
20	HQAM	100	0	24.62	24.68	24.58	24.67	24.59			
20	HQAM	1	0	24.48	24.50	24.40	24.46	24.28			25.5
20	HQAM	1	49	24.57	24.58	24.62	24.80	24.84			
20	HQAM	1	99	24.50	24.61	24.52	24.38	23.91			
20	HQAM	50	0	23.64	23.66	23.59	23.66	23.56			24.5
20	HQAM	50	24	23.53	23.70	23.58	23.77	23.65			
20	HQAM	50	50	23.63	23.71	23.58	23.68	23.52			
20	HQAM	100	0	23.62	23.69	23.57	23.68	23.58			
20	SSBQAM	1	0	21.75	21.79	21.84	21.77	21.50			22.5
20	SSBQAM	1	49	21.84	21.88	21.70	21.92	21.84			
20	SSBQAM	1	99	21.73	21.77	21.76	21.49	21.84			
20	SSBQAM	50	0	21.69	21.91	21.81	21.92	21.78			
20	SSBQAM	50	34	21.88	21.88	21.81	22.01	21.82			22.5
20	SSBQAM	50	50	21.81	21.88	21.85	21.82	21.88			
20	SSBQAM	100	0	21.84	21.83	21.83	21.88	21.79			
Channel											
Frequency (MHz)				2563.5	2643	2591	2617.8	2623			
15	QPSK	1	0	26.53	26.41	26.38	26.49	26.25			27.5
15	QPSK	1	37	26.34	26.43	26.33	26.40	26.43			
15	QPSK	1	74	26.38	26.52	26.42	26.40	26.43			
15	QPSK	50	0	25.67	25.61	25.64	25.63	25.53			26.5
15	QPSK	50	30	25.56	25.63	25.55	25.68	25.62			
15	QPSK	50	50	25.56	25.63	25.52	25.65	25.61			
15	QPSK	1	0	25.56	25.63	25.53	25.63	25.59			26.5
15	HQAM	1	0	25.60	25.71	25.67	25.78	25.56			
15	HQAM	1	37	25.44	25.64	25.54	25.66	25.62			
15	HQAM	1	74	25.59	25.62	25.71	25.70	25.68			
15	HQAM	50	0	24.46	24.58	24.50	24.63	24.49			25.5
15	HQAM	50	29	24.53	24.58	24.50	24.65	24.61			
15	HQAM	50	59	24.55	24.52	24.50	24.66	24.60			
15	HQAM	79	0	24.57	24.63	24.50	24.63	24.58			
15	HQAM	1	0	24.41	24.51	24.40	24.61	24.59			25.5
15	HQAM	1	37	24.51	24.58	24.48	24.61	24.51			
15	HQAM	1	74	24.51	24.71	24.61	24.51	24.56			
15	HQAM	50	0	23.49	23.62	23.55	23.65	23.54			24.5
15	HQAM	50	20	23.58	23.68	23.54	23.70	23.56			
15	HQAM	50	59	23.58	23.65	23.54	23.69	23.49			
15	HQAM	79	0	23.58	23.66	23.55	23.65	23.58			
15	SSBQAM	1	0	21.79	21.79	21.79	21.79	21.50			22.5
15	SSBQAM	1	37	21.55	21.64	21.50	21.62	21.61			
15	SSBQAM	1	74	21.71	21.71	21.67	21.48	21.84			
15	SSBQAM	50	0	21.85	21.81	21.80	21.85	21.74			22.5
15	SSBQAM	50	20	21.81	21.78	21.88	21.88	21.86			
15	SSBQAM	50	59	21.75	21.78	21.86	21.75	21.86			
15	SSBQAM	95	0	21.80	21.79	21.88	21.85	21.71			
Channel											
Frequency (MHz)				3970	4010	4050	4100	4160			
20	QPSK	1	0	26.30	26.35	26.40	26.29	26.24			27.5
20	QPSK	1	25	26.53	26.42	26.32	26.53	26.40			
20	QPSK	1	50	26.43	26.51	26.33	26.40	26.32			
20	QPSK	25	0	25.65	25.63	25.54	25.64	25.59			26.5
20	QPSK	25	12	25.67	25.67	25.59	25.60	25.67			
20	QPSK	25	24	25.57	25.65	25.54	25.72	25.67			
20	QPSK	50	0	25.57	25.68	25.54	25.73	25.67			
20	HQAM	1	0	25.71	25.77	25.75	25.86	25.80			26.5
20	HQAM	1	25	25.71	25.80	25.71	25.92	25.77			
20	HQAM	1	49	25.74	25.84	25.71	26.71	25.52			
20	HQAM	50	0	24.54	24.62	24.58	24.68	24.64			25.5
20	HQAM	25	12	24.59	24.70	24.61	24.86	24.71			
20	HQAM	50	0	24.55	24.63	24.59	24.73	24.58			
20	HQAM	50	0	24.55	24.70	24.59	24.76	24.61			
20	HQAM	1	0	24.88	24.65	24.64	24.52	24.48			25.5
20	HQAM	1	25	24.84	24.80	24.61	24.90	24.52			
20	HQAM	1	49	24.65	24.75	24.62	24.60	24.21			
20	HQAM	25	0	23.85	23.70	23.64	24.72	23.80			24.5
20	HQAM	50	12	23.87	23.76	23.87	23.91	23.99			
20	HQAM	55	25	23.63	23.73	23.62	23.79	23.48			
20	HQAM	80	0	23.89	23.66	23.61	23.77	23.48			
20	SSBQAM	1	0	21.69	21.71	21.77	21.67	21.44			22.5
20	SSBQAM	1	25	21.64	21.60	21.70	21.69	21.83			
20	SSBQAM	1	49	21.65	21.72	21.66	21.47	21.78			
20	SSBQAM	25	0	21.88	21.81	21.90	21.89	21.73			22.5
20	SSBQAM	50	12	21.60	21.86	21.80	21.94	21.87			
20	SSBQAM	55	25	21.79	21.78	21.76	21.72	21.78			
20	SSBQAM	50	0	21.82	21.83	21.80	21.85	21.73			
Channel											
Frequency (MHz)				2563.5	2643	2591	2641.50	2667.5			
5	QPSK	1	0	26.38	26.43	26.36	26.53	26.46			27.5
5	QPSK	1	19	26.38	26.46	26.39	26.52	26.46			
5	QPSK	1	24	26.40	26.43	26.34	26.51	26.39			
5	QPSK	12	0	25.65	25.62	25.54	25.72	25.61			26.5
5	QPSK	12	7	25.51	25.64	25.54	25.76	25.67			
5	QPSK	12	13	25.57	25.64	25.55	25.78	25.64			
5	QPSK	25	0	25.53	25.61	25.54	25.68	25.59			26.5
5	HQAM	1	0	25.76	25.78	25.72	25.84	25.78			
5	HQAM	1	12	25.70	25.80	25.73	25.91	25.74			26.5
5	HQAM	1	24	25.72	25.81	25.76	25.90	25.73			
5	HQAM	12	0	24.59	24.64	24.58	24.76	24.65			25.5
5	HQAM	12	7	24.63	24.69	24.64	24.76	24.72			
5	HQAM	12	13	24.58	24.67	24.60	24.80	24.64			
5	HQAM	25	0	24.60	24.65	24.60	24.78	24.66			25.5
5	HQAM	1	0	24.61	24.66	24.60	24.76	24.63			
5	HQAM	1	12	24.60	24.69	24.61	24.84	24.52			
5	HQAM	1	24	24.63	24.71	24.66	24.82	24.64			24.5
5	HQAM	12	0	23.80	23.85	23.87	23.78	23.66			
5	HQAM	12	7	23.86	23.73	23.65	23.82	23.58			24.5
5	HQAM	12	13	23.86	23.70	23.60	23.83	23.56			
5	HQAM	25	0	23.80	23.70	23.63	23.81	23.53			
5	SSBQAM	1	0	21.74	21.71	21.76	21.74	21.46			22.5
5	SSBQAM	1	12	21.69	21.68	21.66	21.91	21.77			
5	SSBQAM	1	24	21.68	21.67	21.67	21.49	21.77			
5	SSBQAM	12	0	21.81	21.69	21.81	21.69	21.71			22.5
5	SSBQAM	12	7	21.83	21.70	21.83	21.61	21.83			
5	SSBQAM	12	13	21.71	21.79	21.75	21.75	21.82			
5	SSBQAM	25	0	21.74	21.67	21.76	21.83	21.79			



Band 48_Ant 7									
SR (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power 5G Ch / Freq	Take-off loss (dB)	
Channel				5640	5680	5850	5660		
Frequency (MHz)				5650	5690	5841	5650		
20	QPSK	1	0	22.10	22.18	22.38	22.16	23.3	
20	QPSK	1	49	22.12	22.18	22.30	22.19		
20	QPSK	1	98	22.22	22.31	22.38	22.31		
20	QPSK	50	0	22.23	22.27	22.45	22.21	23.3	
20	QPSK	50	24	22.37	22.39	22.48	22.39		
20	QPSK	50	50	22.26	22.31	22.39	22.17		
20	QPSK	100	0	22.23	22.31	22.48	22.23	23.3	
20	16QAM	1	0	22.14	22.34	22.54	22.32		
20	16QAM	1	49	22.08	22.25	22.41	22.19		
20	16QAM	1	99	22.26	22.46	22.54	22.39	23.3	
20	16QAM	50	0	22.16	22.35	22.50	22.28		
20	16QAM	50	24	22.18	22.38	22.53	22.28		
20	16QAM	50	50	22.17	22.36	22.44	22.22	23.3	
20	16QAM	100	0	22.17	22.35	22.50	22.28		
20	8QAM	1	0	21.68	21.88	21.90	21.88		
20	8QAM	1	49	21.68	21.88	21.69	21.77	23.3	
20	8QAM	1	99	21.87	22.03	22.09	21.87		
20	8QAM	50	0	21.44	21.62	21.68	21.67		
20	8QAM	50	24	21.48	21.65	21.81	21.65	22.7	
20	8QAM	50	50	21.48	21.66	21.73	21.52		
20	8QAM	100	0	21.66	21.64	21.80	21.62		
20	256QAM	1	0	19.20	19.33	19.69	19.40	20.7	
20	256QAM	1	49	19.14	19.31	19.50	19.28		
20	256QAM	1	99	19.30	19.49	19.60	19.38		
20	256QAM	50	0	19.51	19.64	19.81	19.66	20.7	
20	256QAM	50	24	19.52	19.65	19.82	19.64		
20	256QAM	50	50	19.51	19.65	19.77	19.58		
20	256QAM	100	0	19.69	19.81	19.78	19.61	20.7	
Channel				5820	5860	5850	5820		
Frequency (MHz)				5827.5	5867	5842	5827.5		
15	QPSK	1	0	21.03	22.18	22.26	22.09	23.3	
15	QPSK	1	49	21.02	22.18	22.20	22.09		
15	QPSK	1	74	22.01	22.24	22.35	22.19		
15	QPSK	36	0	22.10	22.29	22.41	22.18	23.3	
15	QPSK	36	20	22.05	22.28	22.39	22.15		
15	QPSK	36	39	22.11	22.30	22.39	22.07		
15	QPSK	0	0	22.08	22.29	22.38	22.19	23.3	
15	16QAM	1	0	22.14	22.24	22.45	22.29		
15	16QAM	1	37	21.98	22.20	22.38	22.16		
15	16QAM	1	74	21.79	22.05	22.20	21.78	23.3	
15	16QAM	36	0	21.97	21.92	21.95	21.48		
15	16QAM	36	20	21.40	21.56	21.72	21.46		
15	8QAM	36	39	21.44	21.60	21.81	21.48	22.7	
15	8QAM	75	0	21.37	21.62	21.75	21.53		
15	8QAM	75	0	21.37	21.62	21.75	21.53		
15	256QAM	1	0	19.28	19.35	19.45	19.27	20.7	
15	256QAM	1	37	19.09	19.33	19.42	19.22		
15	256QAM	1	74	19.28	19.49	19.43	19.38		
15	256QAM	36	0	19.44	19.54	19.71	19.50	20.7	
15	256QAM	36	20	19.48	19.64	19.74	19.60		
15	256QAM	36	39	19.40	19.68	19.69	19.53		
15	256QAM	75	0	19.48	19.59	19.77	19.52	20.7	
Channel				5850	5890	5846	5850		
Frequency (MHz)				5857.5	5897	5843	5857.5		
10	QPSK	1	0	21.08	22.16	22.26	22.14	23.3	
10	QPSK	1	25	22.00	22.15	22.22	21.97		
10	QPSK	1	49	22.03	22.22	22.37	22.18		
10	QPSK	25	0	22.01	22.24	22.35	22.21	23.3	
10	QPSK	25	12	22.08	22.27	22.39	22.21		
10	QPSK	25	24	22.14	22.34	22.44	22.14		
10	QPSK	50	0	22.06	22.23	22.40	22.15	23.3	
10	16QAM	1	0	22.10	22.28	22.48	22.30		
10	16QAM	1	26	22.03	22.25	22.40	22.19		
10	16QAM	1	49	22.16	22.36	22.48	22.32	23.3	
10	16QAM	25	0	22.09	22.28	22.46	22.25		
10	16QAM	25	12	22.17	22.38	22.45	22.22		
10	16QAM	25	20	22.12	22.35	22.44	22.16	23.3	
10	16QAM	50	0	22.15	22.35	22.45	22.23		
10	8QAM	1	0	21.59	21.85	22.05	21.79		
10	8QAM	1	26	21.60	21.86	21.92	21.70	23.3	
10	8QAM	1	49	21.85	22.02	22.03	21.85		
10	8QAM	25	0	21.43	21.64	21.70	21.48		
10	8QAM	25	12	21.38	21.71	21.74	21.49	22.7	
10	8QAM	25	20	21.45	21.58	21.69	21.49		
10	8QAM	50	0	21.46	21.56	21.74	21.52		
10	256QAM	1	0	19.16	19.27	19.50	19.32	20.7	
10	256QAM	1	25	19.08	19.27	19.43	19.22		
10	256QAM	1	49	19.33	19.41	19.68	19.32		
10	256QAM	25	0	19.51	19.55	19.79	19.64	20.7	
10	256QAM	25	12	19.48	19.59	19.75	19.63		
10	256QAM	25	24	19.47	19.55	19.87	19.53		
10	256QAM	50	0	19.48	19.54	19.70	19.53	20.7	
Channel				5880	5920	5876	5880		
Frequency (MHz)				5887.5	5927	5843	5887.5		
5	QPSK	1	0	21.94	22.10	22.29	22.14	23.3	
5	QPSK	1	14	21.98	22.13	22.21	21.98		
5	QPSK	1	24	22.07	22.29	22.29	22.17		
5	QPSK	12	0	22.05	22.24	22.45	22.19	23.3	
5	QPSK	12	7	22.12	22.21	22.45	22.13		
5	QPSK	12	13	22.14	22.34	22.31	22.11		
5	QPSK	25	0	22.03	22.27	22.38	22.18	23.3	
5	16QAM	1	0	22.09	22.33	22.65	22.23		
5	16QAM	1	12	22.06	22.15	22.35	22.18		
5	16QAM	1	24	22.25	22.44	22.48	22.24	23.3	
5	16QAM	12	0	22.13	22.25	22.43	22.22		
5	16QAM	12	7	22.14	22.27	22.43	22.21		
5	16QAM	12	13	22.13	22.33	22.35	22.20	23.3	
5	16QAM	25	0	22.07	22.32	22.48	22.18		
5	8QAM	1	0	21.92	21.85	22.19	21.85		
5	8QAM	1	12	21.88	21.78	21.95	21.68	23.3	
5	8QAM	1	24	21.87	21.98	22.01	21.87		
5	8QAM	12	0	21.39	21.62	21.70	21.52		
5	8QAM	12	7	21.40	21.62	21.80	21.63	22.7	
5	8QAM	12	13	21.41	21.68	21.87	21.42		
5	8QAM	25	0	21.38	21.58	21.80	21.52		
5	256QAM	1	0	19.16	19.27	19.50	19.35	20.7	
5	256QAM	1	12	19.08	19.25	19.48	19.19		
5	256QAM	1	24	19.28	19.48	19.47	19.27		
5	256QAM	12	0	19.48	19.63	19.75	19.67	20.7	
5	256QAM	12	7	19.53	19.63	19.76	19.67		
5	256QAM	12	13	19.42	19.61	19.87	19.48		
5	256QAM	25	0	19.47	19.55	19.74	19.53	20.7	



Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq			
Channel				3850	3800	3850				
Frequency (MHz)				2590	2590	2590				
20	QPSK	1	0	2342	2333	2325	20.2			
20	QPSK	1	49	2342	2336	2327				
20	QPSK	1	99	2342	2338	2329				
20	QPSK	50	0	2259	2242	2240	24.2			
20	QPSK	50	24	2255	2242	2241				
20	QPSK	50	50	2255	2242	2240				
20	QPSK	100	0	2259	2241	2242	24.2			
20	16QAM	1	0	2257	2248	2249				
20	16QAM	1	49	2252	2248	2237				
20	16QAM	1	99	2257	2247	2244	20.2			
20	16QAM	50	0	2142	2145	2144				
20	16QAM	50	24	2159	2144	2144				
20	16QAM	50	50	2150	2144	2145	20.2			
20	16QAM	100	0	2159	2144	2144				
20	64QAM	1	0	2128	2122	2122				
20	64QAM	1	49	2133	2128	2125	20.2			
20	64QAM	1	99	2137	2129	2129				
20	64QAM	50	0	2045	2044	2044				
20	64QAM	50	24	2053	2047	2045	20.2			
20	64QAM	50	50	2059	2045	2044				
20	64QAM	100	0	2050	2045	2044				
20	256QAM	1	0	1846	1838	1836	20.2			
20	256QAM	1	49	1835	1826	1827				
20	256QAM	1	99	1834	1828	1824				
20	256QAM	50	0	1871	1852	1850	20.2			
20	256QAM	50	24	1856	1851	1851				
20	256QAM	50	50	1843	1839	1833				
20	256QAM	100	0	1842	1847	1846	20.2			
Channel				3760	3800	3800				
Frequency (MHz)				2177.5	2590	2612.5				
15	QPSK	1	0	2338	2328	2321	20.2			
15	QPSK	1	49	2340	2334	2327				
15	QPSK	1	74	2334	2323	2327				
15	QPSK	36	0	2256	2236	2234	24.2			
15	QPSK	36	20	2252	2239	2239				
15	QPSK	36	39	2246	2242	2230				
15	QPSK	75	0	2249	2231	2240	24.2			
15	16QAM	1	0	2247	2245	2234				
15	16QAM	1	37	2242	2242	2237				
15	16QAM	1	74	2254	2239	2237	20.2			
15	16QAM	36	0	2159	2141	2144				
15	16QAM	36	20	2148	2137	2141				
15	16QAM	36	39	2158	2137	2139	20.2			
15	64QAM	75	0	2151	2144	2138				
15	64QAM	1	0	2125	2129	2121				
15	64QAM	1	37	2131	2123	2122	20.2			
15	64QAM	1	74	2135	2129	2123				
15	64QAM	36	0	2057	2044	2040				
15	64QAM	36	20	2051	2043	2037	20.2			
15	64QAM	36	39	2050	2045	2037				
15	64QAM	75	0	2054	2037	2039				
15	256QAM	1	0	1839	1837	1837	20.2			
15	256QAM	1	37	1831	1825	1825				
15	256QAM	1	74	1832	1823	1823				
15	256QAM	36	0	1851	1845	1846	20.2			
15	256QAM	36	20	1843	1847	1835				
15	256QAM	36	39	1853	1838	1831				
15	256QAM	75	0	1841	1847	1838	20.2			
Channel				3760	3800	3800				
Frequency (MHz)				2592	2590	2592.5				
10	QPSK	1	0	2338	2327	2321	20.2			
10	QPSK	1	25	2334	2334	2327				
10	QPSK	1	49	2331	2328	2324				
10	QPSK	25	0	2255	2241	2236	24.2			
10	QPSK	25	12	2253	2239	2233				
10	QPSK	25	24	2253	2239	2233				
10	QPSK	50	0	2251	2236	2236	24.2			
10	16QAM	1	0	2247	2238	2231				
10	16QAM	1	26	2244	2239	2237				
10	16QAM	1	49	2254	2246	2234	20.2			
10	16QAM	25	0	2159	2143	2142				
10	16QAM	25	12	2155	2135	2134				
10	16QAM	25	26	2153	2144	2144	20.2			
10	16QAM	50	0	2152	2145	2142				
10	64QAM	1	0	2127	2122	2122				
10	64QAM	1	26	2127	2122	2122	20.2			
10	64QAM	1	49	2133	2121	2123				
10	64QAM	25	0	2052	2041	2035				
10	64QAM	25	12	2058	2042	2035	20.2			
10	64QAM	25	26	2055	2042	2038				
10	64QAM	50	0	2055	2036	2037				
10	256QAM	1	0	1839	1831	1832	20.2			
10	256QAM	1	25	1838	1824	1821				
10	256QAM	1	49	1831	1824	1822				
10	256QAM	25	0	1854	1842	1846	20.2			
10	256QAM	25	12	1854	1843	1835				
10	256QAM	25	26	1856	1835	1824				
10	256QAM	50	0	1838	1841	1845	20.2			
Channel				3760	3800	3800				
Frequency (MHz)				2592.5	2590	2592.5				
5	QPSK	1	0	2339	2324	2325	20.2			
5	QPSK	1	14	2341	2329	2329				
5	QPSK	1	24	2332	2321	2321				
5	QPSK	12	0	2256	2234	2231	24.2			
5	QPSK	12	7	2248	2235	2235				
5	QPSK	12	13	2245	2232	2238				
5	QPSK	25	0	2253	2241	2237	24.2			
5	16QAM	1	0	2247	2242	2238				
5	16QAM	1	12	2244	2244	2238				
5	16QAM	1	24	2254	2245	2239	20.2			
5	16QAM	12	0	2154	2143	2137				
5	16QAM	12	7	2159	2136	2144				
5	16QAM	12	13	2159	2143	2135	20.2			
5	16QAM	25	0	2159	2140	2134				
5	64QAM	1	0	2130	2125	2122				
5	64QAM	1	12	2131	2123	2123	20.2			
5	64QAM	1	24	2130	2123	2121				
5	64QAM	12	0	2054	2035	2038				
5	64QAM	12	7	2056	2037	2035	20.2			
5	64QAM	12	13	2053	2046	2038				
5	64QAM	25	0	2040	2035	2042				
5	256QAM	1	0	1845	1837	1834	20.2			
5	256QAM	1	12	1838	1824	1827				
5	256QAM	1	24	1838	1820	1822				
5	256QAM	12	0	1843	1851	1846	20.2			
5	256QAM	12	7	1843	1842	1842				
5	256QAM	12	13	1836	1839	1827				
5	256QAM	25	0	1832	1829	1846	20.2			



Band 41_Ant 0										
BR (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Time-up Int (sec)
Channel				3970	4018	4066	4114	4162		
Frequency (MHz)				2596	2644	2692	2740	2788		
20	QPSK	1	0	23.93	23.99	23.83	23.74	23.72		25.5
20	QPSK	1	49	23.99	24.01	23.84	24.09	24.02		
20	QPSK	1	99	23.99	23.99	23.99	23.76	23.84		
20	QPSK	50	0	23.18	23.19	22.95	22.97	22.98		
20	QPSK	50	34	23.18	23.19	22.94	23.12	23.10		24.5
20	QPSK	50	50	23.14	23.18	22.93	22.93	23.11		
20	QPSK	100	0	23.15	23.19	22.95	23.03	23.05		24.5
20	HQAM	1	0	23.11	23.13	22.97	22.85	22.72		
20	HQAM	1	49	23.10	23.11	22.89	23.15	23.13		
20	HQAM	1	99	23.11	23.12	22.96	22.88	23.03		23.5
20	HQAM	50	0	22.19	22.21	21.97	22.01	22.15		
20	HQAM	50	24	22.20	22.21	21.99	22.17	22.16		
20	HQAM	50	50	22.18	22.19	21.97	22.05	22.15		23.5
20	HQAM	100	0	22.15	22.21	21.94	22.04	22.08		
20	HQAM	1	0	21.80	21.84	21.59	21.52	21.42		
20	HQAM	1	49	21.85	21.84	21.68	21.92	21.98		23.5
20	HQAM	1	99	21.87	21.91	21.72	21.37	21.78		
20	HQAM	50	0	21.18	21.24	21.02	21.08	21.09		
20	HQAM	50	24	21.19	21.24	21.05	21.17	21.17		22.5
20	HQAM	50	50	21.19	21.21	20.97	21.05	21.14		
20	HQAM	100	0	21.18	21.23	20.96	21.07	21.07		
20	SSQAM	1	0	19.03	19.94	18.92	18.79	18.99		20.5
20	SSQAM	1	49	18.93	18.88	18.74	18.92	18.85		
20	SSQAM	1	99	18.99	18.99	18.74	18.49	18.93		
20	SSQAM	50	0	19.31	19.29	19.11	19.15	19.11		
20	SSQAM	50	34	19.25	19.21	19.09	19.29	19.29		20.5
20	SSQAM	50	50	19.22	19.18	19.02	19.08	19.16		
20	SSQAM	100	0	19.20	19.19	19.02	19.09	19.12		
Channel				3970	4018	4066	4114	4162		
Frequency (MHz)				2863.5	2911.5	2959.5	3007.5	3055.5		
15	QPSK	1	0	23.91	23.98	23.77	23.85	23.74		25.5
15	QPSK	1	37	23.91	23.95	23.74	24.02	23.92		
15	QPSK	1	74	23.94	24.07	23.82	23.83	23.97		
15	QPSK	36	0	23.94	23.15	22.93	23.00	23.09		
15	QPSK	36	30	23.12	23.15	22.90	23.08	23.12		24.5
15	QPSK	36	50	23.11	23.18	22.90	23.07	23.10		
15	QPSK	1	0	23.19	23.19	22.91	23.00	23.09		24.5
15	HQAM	1	0	23.09	23.15	22.93	23.08	22.96		
15	HQAM	1	37	23.08	23.09	22.92	23.14	23.09		
15	HQAM	1	74	23.14	23.25	23.01	22.92	23.11		23.5
15	HQAM	36	0	22.01	22.13	21.90	21.98	21.99		
15	HQAM	36	29	22.09	22.14	21.89	22.03	22.07		
15	HQAM	36	59	22.09	22.11	21.87	22.04	22.07		23.5
15	HQAM	79	0	22.13	22.17	21.95	22.04	22.07		
15	HQAM	1	0	21.12	21.84	21.62	21.74	21.97		
15	HQAM	1	37	21.85	21.84	21.64	21.93	21.89		23.5
15	HQAM	1	74	21.89	21.96	21.74	21.86	21.89		
15	HQAM	36	0	21.00	21.20	20.95	21.03	21.03		
15	HQAM	36	20	21.15	21.16	20.95	21.09	21.14		22.5
15	HQAM	36	59	21.18	21.19	20.96	21.09	21.14		
15	HQAM	79	0	21.18	21.19	20.95	21.02	21.08		
15	SSQAM	1	0	18.98	18.98	18.98	18.98	18.97		20.5
15	SSQAM	1	37	18.94	18.94	18.75	18.94	18.91		
15	SSQAM	1	74	18.94	18.93	18.69	18.45	18.74		
15	SSQAM	36	0	19.05	19.13	19.05	19.07	19.01		
15	SSQAM	36	20	19.21	19.13	18.97	19.23	19.21		20.5
15	SSQAM	36	59	19.20	19.11	18.94	18.93	19.07		
15	SSQAM	79	0	19.17	19.09	18.97	18.99	19.12		
Channel				3970	4018	4066	4114	4162		
Frequency (MHz)				3068	3116	3164	3212	3260		
10	QPSK	1	0	23.91	23.94	23.70	23.83	23.72		25.5
10	QPSK	1	25	23.91	23.85	23.70	24.02	23.87		
10	QPSK	1	50	23.94	23.98	23.81	23.77	23.96		
10	QPSK	25	0	23.03	23.10	22.90	22.95	22.91		
10	QPSK	25	12	23.03	23.13	22.90	23.00	23.09		24.5
10	QPSK	25	24	23.06	23.07	22.92	23.00	23.09		
10	QPSK	50	0	23.05	23.12	22.84	22.93	22.96		24.5
10	HQAM	1	0	23.00	23.06	22.86	23.03	23.05		
10	HQAM	1	25	22.97	22.93	22.80	23.05	23.02		
10	HQAM	1	49	23.10	23.20	23.00	22.91	23.00		23.5
10	HQAM	25	0	21.94	22.07	21.86	21.93	21.98		
10	HQAM	25	12	22.00	22.14	21.85	22.02	22.00		
10	HQAM	50	0	22.07	22.02	21.86	21.98	22.05		23.5
10	HQAM	50	0	22.08	22.08	21.93	21.90	22.05		
10	HQAM	1	0	21.70	21.79	21.65	21.86	21.51		
10	HQAM	1	25	21.77	21.80	21.60	21.85	21.79		23.5
10	HQAM	1	49	21.80	21.86	21.73	21.58	21.85		
10	HQAM	25	0	21.00	21.20	20.97	20.96	20.97		
10	HQAM	25	12	21.07	21.13	20.91	20.99	21.07		22.5
10	HQAM	50	25	21.09	21.12	20.92	21.07	21.07		
10	HQAM	50	0	21.14	21.17	20.98	20.99	21.04		
10	SSQAM	1	0	19.09	19.87	18.90	18.70	18.98		20.5
10	SSQAM	1	25	18.99	18.83	18.69	18.90	18.87		
10	SSQAM	1	49	18.98	18.91	18.71	18.40	18.80		
10	SSQAM	25	0	19.25	19.13	19.07	19.05	19.08		
10	SSQAM	25	12	19.21	19.12	18.97	19.27	19.24		20.5
10	SSQAM	25	25	19.17	19.15	18.95	19.08	19.09		
10	SSQAM	50	0	19.18	19.05	19.01	19.01	19.03		
Channel				3068	3116	3164	3212	3260		
Frequency (MHz)				3468.5	3516.5	3564.5	3612.5	3660.5		
5	QPSK	1	0	23.84	23.94	23.73	23.81	23.72		25.5
5	QPSK	1	12	23.80	23.91	23.75	23.92	23.85		
5	QPSK	1	24	23.87	23.99	23.80	23.79	23.92		
5	QPSK	12	0	23.81	23.99	23.84	23.94	23.94		
5	QPSK	12	7	23.12	23.15	22.91	22.98	23.02		24.5
5	QPSK	12	13	23.09	23.09	22.90	23.04	23.08		
5	QPSK	25	0	23.03	23.07	22.86	22.91	23.00		24.5
5	HQAM	1	0	23.00	23.05	22.82	23.02	22.84		
5	HQAM	1	12	22.94	22.95	22.73	23.04	23.03		
5	HQAM	1	24	23.10	23.24	22.93	22.85	23.09		23.5
5	HQAM	12	0	21.94	22.07	21.81	21.98	21.90		
5	HQAM	12	7	22.08	22.11	21.86	21.86	21.87		
5	HQAM	12	13	22.02	22.04	21.82	21.88	21.95		23.5
5	HQAM	25	0	22.12	22.11	21.94	22.09	21.98		
5	HQAM	1	0	21.68	21.84	21.68	21.74	21.47		
5	HQAM	1	12	21.78	21.83	21.69	21.89	21.85		23.5
5	HQAM	1	24	21.82	21.89	21.73	21.49	21.94		
5	HQAM	12	0	20.98	21.12	20.90	21.01	21.03		
5	HQAM	12	7	21.08	21.08	20.85	21.08	21.07		22.5
5	HQAM	12	13	21.14	21.16	20.90	20.90	21.08		
5	HQAM	25	0	21.10	21.15	20.88	20.92	21.01		
5	SSQAM	1	0	19.01	18.89	18.86	18.70	18.96		20.5
5	SSQAM	1	12	18.95	18.76	18.72	18.92	18.94		
5	SSQAM	1	24	18.94	18.88	18.72	18.49	18.80		
5	SSQAM	12	0	19.21	19.10	19.04	18.87	18.95		
5	SSQAM	12	7	19.21	19.21	19.04	19.21	19.21		20.5
5	SSQAM	12	13	19.20	19.09	18.98	19.08	19.08		
5	SSQAM</									



Band 41 HPUE_Ant 0												
BSR [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High + 1 Ch / Freq	Power High + 2 Ch / Freq	Power High + 3 Ch / Freq	Power High + 4 Ch / Freq	Power High + 5 Ch / Freq	Tune-up limit [MHz]
Channel				39750	40185	40620	41055	41490				
Frequency [MHz]				2591	26345	26780	27215	27650				
20	QPSK	1	0	25.81	25.85	25.51	25.56	25.45				27
20	QPSK	1	49	25.81	25.85	25.56	25.57	25.84				
20	QPSK	1	99	25.79	25.88	25.51	25.45	25.74				
20	QPSK	50	0	24.36	24.48	24.73	24.89	24.88				
20	QPSK	50	34	24.09	24.09	24.73	24.55	24.59				
20	QPSK	50	50	24.35	24.07	24.73	24.91	25.02				
20	QPSK	100	0	24.98	24.99	24.73	24.93	24.96				
20	HQAM	1	0	24.99	24.99	24.68	24.82	24.82				
20	HQAM	1	49	24.99	25.01	24.82	25.18	25.20				
20	HQAM	1	99	25.02	25.04	24.84	24.77	25.07				
20	HQAM	50	0	23.99	24.01	23.75	23.91	24.07				
20	HQAM	50	24	24.50	24.04	23.77	24.98	24.07				
20	HQAM	50	50	24.25	24.05	23.77	23.96	24.04				
20	HQAM	100	0	23.98	24.01	23.75	23.98	23.99				
20	SRQAM	1	0	23.81	23.84	23.65	23.73	23.82				
20	SRQAM	1	49	23.87	23.82	23.66	24.05	24.09				
20	SRQAM	1	99	23.89	23.88	23.73	23.85	23.85				
20	SRQAM	50	0	22.89	23.05	22.75	22.76	23.06				
20	SRQAM	50	24	22.99	23.05	22.75	23.06	23.05				
20	SRQAM	50	50	23.01	23.01	22.80	22.87	23.04				
20	SRQAM	100	0	23.00	23.00	22.75	22.80	22.87				
20	SSQAM	1	0	20.86	20.85	20.80	20.88	20.86				
20	SSQAM	1	49	20.88	20.74	20.83	20.93	21.11				
20	SSQAM	1	99	20.87	20.81	20.81	20.96	20.95				
20	SSQAM	50	0	21.11	21.04	20.91	20.95	21.06				
20	SSQAM	50	34	21.08	21.00	20.85	21.12	21.00				
20	SSQAM	50	50	21.03	21.00	20.81	20.95	21.05				
20	SSQAM	100	0	21.02	20.97	20.85	20.99	20.97				
Channel				39750	40185	40620	41055	41490				
Frequency [MHz]				2591	26345	26780	27215	27650				
15	QPSK	1	0	25.51	25.57	25.46	25.53	25.59				27
15	QPSK	1	37	25.52	25.54	25.44	25.45	25.71				
15	QPSK	1	74	25.88	25.63	25.44	25.41	25.68				
15	QPSK	50	0	24.00	24.08	24.63	24.80	24.80				
15	QPSK	50	50	24.99	24.98	24.71	24.83	25.02				
15	QPSK	98	50	24.95	24.88	24.68	24.87	24.92				
15	QPSK	1	16	24.92	24.92	24.68	24.88	24.98				
15	HQAM	1	0	24.99	24.91	24.62	24.80	24.74				
15	HQAM	1	37	24.74	24.84	24.74	24.74	24.74				
15	HQAM	1	74	24.99	25.04	24.78	24.77	24.95				
15	HQAM	50	0	23.95	23.93	23.70	23.88	23.84				
15	HQAM	50	29	23.98	23.94	23.70	24.05	24.07				
15	HQAM	50	50	23.95	23.95	23.69	23.92	24.04				
15	HQAM	98	0	23.95	24.00	23.65	23.92	23.98				
15	SRQAM	1	0	23.81	23.78	23.65	23.88	23.88				
15	SRQAM	1	37	23.79	23.82	23.64	24.04	24.07				
15	SRQAM	1	74	23.78	23.86	23.68	23.93	23.96				
15	SRQAM	50	0	22.91	22.98	22.75	22.88	22.99				
15	SRQAM	50	20	22.93	23.04	22.76	22.96	22.96				
15	SRQAM	50	99	22.94	23.00	22.71	22.87	22.99				
15	SRQAM	74	0	22.90	22.93	22.78	22.92	22.87				
15	SSQAM	1	0	20.84	20.78	20.78	20.80	20.99				
15	SSQAM	1	37	20.85	20.85	20.54	20.90	21.05				
15	SSQAM	1	74	20.77	20.75	20.55	20.90	20.86				
15	SSQAM	50	0	21.00	20.94	20.85	20.94	20.93				
15	SSQAM	50	50	20.96	20.90	20.85	21.12	21.09				
15	SSQAM	98	50	21.02	20.91	20.81	20.95	21.01				
15	SSQAM	98	1	21.02	20.95	20.83	20.89	20.99				
Channel				39750	40185	40620	41055	41490				
Frequency [MHz]				2591	26345	26780	27215	27650				
10	QPSK	1	0	25.54	25.58	25.43	25.55	25.44				27
10	QPSK	1	23	25.53	25.58	25.34	25.80	25.77				
10	QPSK	1	47	25.53	25.64	25.45	25.45	25.71				
10	QPSK	25	0	24.92	24.98	24.63	24.86	24.81				
10	QPSK	25	12	24.90	24.98	24.64	24.92	24.97				
10	QPSK	25	24	24.94	24.98	24.69	24.89	24.91				
10	QPSK	50	0	24.91	24.93	24.69	24.91	24.90				
10	HQAM	1	0	24.94	24.97	24.68	24.81	24.72				
10	HQAM	1	25	24.94	24.98	24.81	25.12	25.17				
10	HQAM	1	49	24.98	25.00	24.77	24.75	25.05				
10	HQAM	50	0	23.93	23.97	23.68	23.82	23.89				
10	HQAM	50	12	23.98	23.97	23.70	24.06	24.07				
10	HQAM	50	25	23.91	23.92	23.75	23.89	24.03				
10	HQAM	50	50	23.94	23.97	23.75	23.92	23.95				
10	SRQAM	1	0	23.79	23.77	23.59	23.89	23.59				
10	SRQAM	1	26	23.81	23.84	23.68	24.01	24.01				
10	SRQAM	1	49	23.82	23.82	23.65	23.52	23.88				
10	SRQAM	25	0	22.94	22.98	22.76	22.87	22.88				
10	SRQAM	50	12	22.99	23.00	22.78	23.06	22.99				
10	SRQAM	50	25	22.97	22.98	22.74	22.87	23.01				
10	SRQAM	98	0	22.94	23.06	22.88	22.90	23.09				
10	SSQAM	1	0	20.80	20.84	20.74	20.84	20.79				
10	SSQAM	1	23	20.80	20.74	20.54	20.86	21.09				
10	SSQAM	1	47	20.82	20.78	20.51	20.51	20.88				
10	SSQAM	25	0	21.05	20.99	20.83	20.90	20.92				
10	SSQAM	50	12	20.98	20.99	20.82	21.05	21.07				
10	SSQAM	50	25	20.94	20.95	20.80	20.91	20.99				
10	SSQAM	50	50	20.97	20.89	20.75	20.99	20.91				
Channel				39750	40185	40620	41055	41490				
Frequency [MHz]				2591	26345	26780	27215	27650				
5	QPSK	1	0	25.58	25.65	25.42	25.48	25.41				27
5	QPSK	1	19	25.57	25.64	25.29	25.88	25.78				
5	QPSK	1	34	25.65	25.59	25.41	25.38	25.65				
5	QPSK	12	0	24.81	24.91	24.62	24.83	24.80				
5	QPSK	12	7	24.95	24.89	24.59	25.03	24.95				
5	QPSK	12	13	24.88	24.90	24.72	24.87	24.87				
5	QPSK	25	0	24.88	24.92	24.66	24.80	24.86				
5	HQAM	1	0	24.90	24.91	24.67	24.80	24.76				
5	HQAM	1	12	24.92	24.97	24.70	25.13	25.18				
5	HQAM	1	24	24.97	24.94	24.70	24.73	25.03				
5	HQAM	12	0	23.99	24.01	23.71	23.83	23.84				
5	HQAM	12	7	23.98	23.96	23.68	24.03	24.05				
5	HQAM	12	13	24.00	23.98	23.67	23.93	24.03				
5	HQAM	25	0	23.92	23.98	23.69	23.95	23.89				
5	HQAM	1	0	23.72	23.80	23.63	23.86	23.96				



Band 48_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power N/A Ch / Freq	Take-up (dBm)	
Channel				5640	5680	5720	5660	(dBm)	
Frequency (MHz)				5640	5680	5720	5660		
20	QPSK	1	0	22.85	22.82	22.88	22.91	24.1	
20	QPSK	1	49	22.83	22.83	22.72	22.79	24.1	
20	QPSK	1	99	22.83	22.86	22.88	22.81	24.1	
20	QPSK	50	0	22.71	22.86	22.84	22.84	24.1	
20	QPSK	50	24	22.86	22.86	22.86	22.86	24.1	
20	QPSK	50	50	22.82	22.73	22.79	22.80	24.1	
20	QPSK	100	0	22.99	22.76	22.77	22.85	24.1	
20	16QAM	1	0	22.77	22.82	22.80	22.80	24.1	
20	16QAM	1	49	22.85	22.73	22.79	22.79	24.1	
20	16QAM	1	99	22.80	22.73	22.75	22.76	24.1	
20	16QAM	50	0	22.22	22.36	22.31	22.38	23.7	
20	16QAM	50	24	22.18	22.31	22.31	22.41	23.7	
20	16QAM	50	50	22.13	22.26	22.31	22.33	23.7	
20	16QAM	100	0	22.17	22.30	22.27	22.38	23.7	
20	64QAM	1	0	22.00	22.14	22.15	22.20	23.7	
20	64QAM	1	49	21.83	21.97	22.05	22.09	23.7	
20	64QAM	1	99	21.88	21.96	22.03	22.01	23.7	
20	64QAM	50	0	21.22	21.37	21.37	21.46	23.7	
20	64QAM	50	24	21.19	21.33	21.33	21.41	23.7	
20	64QAM	50	50	21.15	21.26	21.32	21.31	23.7	
20	64QAM	100	0	21.18	21.32	21.33	21.40	23.7	
20	256QAM	1	0	18.85	19.09	19.04	19.31	20.7	
20	256QAM	1	49	18.77	19.02	19.08	19.21	20.7	
20	256QAM	1	99	19.00	19.19	19.27	19.44	20.7	
20	256QAM	50	0	19.13	19.32	19.29	19.48	20.7	
20	256QAM	50	24	19.16	19.28	19.34	19.51	20.7	
20	256QAM	50	50	19.14	19.37	19.40	19.48	20.7	
20	256QAM	100	0	19.03	19.30	19.36	19.55	20.7	
Channel				3827.5	3867	3922	3892.5	24.1	
Frequency (MHz)				3827.5	3867	3922	3892.5		
15	QPSK	1	0	22.80	22.89	22.79	22.83	24.1	
15	QPSK	1	49	22.82	22.89	22.71	22.86	24.1	
15	QPSK	1	74	22.80	22.86	22.89	22.83	24.1	
15	QPSK	36	0	22.70	22.76	22.83	22.82	24.1	
15	QPSK	36	20	22.66	22.73	22.72	22.82	24.1	
15	QPSK	36	39	22.61	22.72	22.72	22.70	24.1	
15	QPSK	0	0	22.82	22.89	22.79	22.80	24.1	
15	16QAM	1	0	22.70	22.81	22.80	22.89	24.1	
15	16QAM	1	37	22.77	22.87	22.87	22.71	24.1	
15	16QAM	1	74	22.59	22.72	22.75	22.87	24.1	
15	16QAM	36	0	22.22	22.27	22.31	22.36	23.7	
15	16QAM	36	20	22.14	22.31	22.28	22.31	23.7	
15	16QAM	36	39	22.12	22.24	22.26	22.29	23.7	
15	16QAM	75	0	22.13	22.29	22.22	22.28	23.7	
15	64QAM	1	0	21.95	22.11	22.08	22.28	23.7	
15	64QAM	1	37	21.78	21.88	22.01	21.69	23.7	
15	64QAM	1	74	21.86	21.96	22.03	21.98	23.7	
15	64QAM	36	0	21.20	21.27	21.30	21.30	23.7	
15	64QAM	36	20	21.12	21.24	21.25	21.34	23.7	
15	64QAM	36	39	21.11	21.28	21.22	21.32	23.7	
15	64QAM	75	0	21.08	21.22	21.31	21.37	23.7	
15	256QAM	1	0	18.85	19.05	19.05	19.35	20.7	
15	256QAM	1	37	18.73	19.05	19.05	19.25	20.7	
15	256QAM	1	74	18.97	19.12	19.25	19.43	20.7	
15	256QAM	36	0	19.13	19.30	19.31	19.52	20.7	
15	256QAM	36	20	19.19	19.34	19.31	19.43	20.7	
15	256QAM	36	39	19.16	19.35	19.45	19.65	20.7	
15	256QAM	75	0	19.10	19.34	19.29	19.55	20.7	
Channel				5650	5695	5740	5690	24.1	
Frequency (MHz)				5650	5695	5740	5690		
10	QPSK	0	0	22.85	22.75	22.81	22.83	24.1	
10	QPSK	1	25	22.46	22.68	22.65	22.84	24.1	
10	QPSK	1	49	22.47	22.66	22.66	22.81	24.1	
10	QPSK	25	0	22.68	22.84	22.77	22.82	24.1	
10	QPSK	25	12	22.60	22.80	22.70	22.80	24.1	
10	QPSK	25	24	22.63	22.80	22.70	22.84	24.1	
10	QPSK	50	0	22.81	22.70	22.70	22.84	24.1	
10	16QAM	1	0	22.73	22.80	22.80	22.86	24.1	
10	16QAM	1	26	22.68	22.70	22.72	22.80	24.1	
10	16QAM	1	49	22.61	22.63	22.68	22.68	24.1	
10	16QAM	25	0	22.52	22.36	22.27	22.35	23.7	
10	16QAM	25	12	22.08	22.23	22.23	22.40	23.7	
10	16QAM	25	24	22.04	22.19	22.08	22.26	23.7	
10	16QAM	50	0	22.11	22.35	22.31	22.33	23.7	
10	64QAM	1	0	21.91	22.11	22.12	22.10	23.7	
10	64QAM	1	26	21.70	21.90	21.88	21.97	23.7	
10	64QAM	1	49	21.82	21.95	21.95	21.91	23.7	
10	64QAM	25	0	21.21	21.37	21.32	21.33	23.7	
10	64QAM	25	12	21.16	21.30	21.32	21.32	23.7	
10	64QAM	25	24	21.11	21.18	21.22	21.22	23.7	
10	64QAM	50	0	21.11	21.26	21.23	21.50	23.7	
10	256QAM	1	0	18.85	19.05	19.11	19.30	20.7	
10	256QAM	1	25	18.79	19.04	19.02	19.26	20.7	
10	256QAM	1	49	18.94	19.07	19.20	19.42	20.7	
10	256QAM	25	0	19.09	19.32	19.30	19.46	20.7	
10	256QAM	25	12	19.11	19.31	19.33	19.50	20.7	
10	256QAM	25	24	19.15	19.31	19.40	19.58	20.7	
10	256QAM	50	0	19.10	19.34	19.35	19.48	20.7	
Channel				3827.5	3867	3922	3892.5	24.1	
Frequency (MHz)				3827.5	3867	3922	3892.5		
5	QPSK	1	0	22.61	22.79	22.82	22.88	24.1	
5	QPSK	1	14	22.46	22.68	22.65	22.71	24.1	
5	QPSK	1	24	22.53	22.63	22.61	22.59	24.1	
5	QPSK	12	0	22.70	22.74	22.77	22.84	24.1	
5	QPSK	12	6	22.61	22.72	22.73	22.80	24.1	
5	QPSK	12	13	22.60	22.63	22.79	22.72	24.1	
5	QPSK	25	0	22.63	22.71	22.77	22.80	24.1	
5	16QAM	1	0	22.77	22.83	22.81	22.98	24.1	
5	16QAM	1	12	22.63	22.71	22.75	22.71	24.1	
5	16QAM	1	24	22.67	22.67	22.70	22.73	24.1	
5	16QAM	12	0	22.18	22.29	22.34	22.34	23.7	
5	16QAM	12	7	22.16	22.26	22.28	22.34	23.7	
5	16QAM	12	13	22.13	22.19	22.22	22.30	23.7	
5	16QAM	25	0	22.16	22.21	22.27	22.38	23.7	
5	64QAM	1	0	21.90	22.08	22.13	22.18	23.7	
5	64QAM	1	12	21.75	21.96	22.01	21.93	23.7	
5	64QAM	1	24	21.88	21.93	22.00	22.01	23.7	
5	64QAM	12	0	21.23	21.35	21.33	21.37	23.7	
5	64QAM	12	7	21.17	21.23	21.24	21.30	23.7	
5	64QAM	12	13	21.13	21.22	21.20	21.27	23.7	
5	64QAM	25	0	21.09	21.26	21.32	21.34	23.7	
5	256QAM	1	0	18.86	19.13	19.08	19.24	20.7	
5	256QAM	1	12	18.72	19.00	19.04	19.20	20.7	
5	256QAM	1	24	18.96	19.09	19.27	19.35	20.7	
5	256QAM	12	0	19.08	19.26	19.26	19.41	20.7	
5	256QAM	12	7	19.09	19.15	19.20	19.41	20.7	
5	256QAM	12	13	19.14	19.20	19.48	19.43	20.7	
5	256QAM	25	0	19.07	19.29	19.28	19.52	20.7	





n2_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	24.57	24.53	24.59	25.7	0.0
20	PI/2 BPSK	1	53	24.55	24.60	24.56		
20	PI/2 BPSK	1	104	24.57	24.69	24.57		
20	PI/2 BPSK	50	0	23.91	24.08	24.10	25.2	0.5
20	PI/2 BPSK	50	28	24.52	24.56	24.56	25.7	0.0
20	PI/2 BPSK	50	56	23.99	24.22	24.10	25.2	0.5
20	PI/2 BPSK	100	0	23.97	24.09	24.05		
20	QPSK	1	1	24.55	24.52	24.61	25.7	0.0
20	QPSK	1	53	24.56	24.66	24.58		
20	QPSK	1	104	24.56	24.67	24.56		
20	QPSK	50	0	23.38	23.57	23.56	24.7	1.0
20	QPSK	50	28	24.51	24.62	24.61	25.7	0.0
20	QPSK	50	56	23.50	23.58	23.55	24.7	1.0
20	QPSK	100	0	23.51	23.59	23.59		
20	16QAM	1	1	23.28	23.34	23.40	24.7	1.0
20	64QAM	1	1	21.92	21.94	22.08	23.2	2.5
20	256QAM	1	1	19.90	19.94	20.08	21.2	4.5
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	PI/2 BPSK	1	1	24.56	24.49	24.56	25.7	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	PI/2 BPSK	1	1	24.57	24.50	24.53	25.7	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	PI/2 BPSK	1	1	24.53	24.51	24.49	25.7	0.0



n5_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.29	24.24	24.17	25.0
20	PI/2 BPSK	1	53	24.13	24.15	24.06	
20	PI/2 BPSK	1	104	23.96	23.37	23.10	
20	PI/2 BPSK	50	0	23.70	23.63	23.60	24.5
20	PI/2 BPSK	50	28	24.12	24.09	24.06	25.0
20	PI/2 BPSK	50	56	23.57	23.51	23.48	24.5
20	PI/2 BPSK	100	0	23.66	23.56	23.52	
20	QPSK	1	1	24.28	24.21	24.16	25.0
20	QPSK	1	53	24.13	24.10	24.04	
20	QPSK	1	104	23.99	23.91	23.40	
20	QPSK	50	0	23.19	23.20	23.11	24.0
20	QPSK	50	28	24.15	24.12	24.09	25.0
20	QPSK	50	56	23.07	23.04	22.97	24.0
20	QPSK	100	0	23.17	23.14	23.11	
20	16QAM	1	1	22.92	22.83	22.78	24.0
20	64QAM	1	1	21.88	21.80	21.75	22.5
20	256QAM	1	1	19.97	19.88	19.77	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.25	24.24	24.16	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.26	24.08	24.18	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.22	24.04	24.10	25.0



n12_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.91	23.91	23.87	24.7
15	PI/2 BPSK	1	40	23.77	23.72	23.71	
15	PI/2 BPSK	1	77	23.65	23.64	23.62	
15	PI/2 BPSK	36	0	23.25	23.29	23.26	24.2
15	PI/2 BPSK	36	22	23.70	23.67	23.62	24.7
15	PI/2 BPSK	36	43	23.16	23.08	23.10	24.2
15	PI/2 BPSK	75	0	23.22	23.23	23.19	
15	QPSK	1	1	23.78	23.86	23.72	24.7
15	QPSK	1	40	23.71	23.71	23.70	
15	QPSK	1	77	23.61	23.56	23.56	
15	QPSK	36	0	22.77	22.79	22.72	23.7
15	QPSK	36	22	23.65	23.65	23.60	24.7
15	QPSK	36	43	22.72	22.67	22.65	23.7
15	QPSK	75	0	22.72	22.67	22.70	
15	16QAM	1	1	22.52	22.46	22.44	23.7
15	64QAM	1	1	21.32	21.23	21.22	22.2
15	256QAM	1	1	19.66	19.62	19.61	20.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.81	23.65	23.77	24.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.72	23.65	23.81	24.7



n71_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.45	24.40	24.41	25.7
20	PI/2 BPSK	1	53	24.53	24.44	24.43	
20	PI/2 BPSK	1	104	24.39	24.36	24.23	
20	PI/2 BPSK	50	0	24.32	24.14	24.11	25.2
20	PI/2 BPSK	50	28	24.28	24.44	24.28	25.7
20	PI/2 BPSK	50	56	24.19	24.07	23.91	25.2
20	PI/2 BPSK	100	0	24.17	24.17	23.98	
20	QPSK	1	1	24.52	24.43	24.45	25.7
20	QPSK	1	53	24.37	24.36	24.19	
20	QPSK	1	104	24.33	24.28	24.02	
20	QPSK	50	0	23.95	23.76	23.85	24.7
20	QPSK	50	28	24.52	24.41	24.31	25.7
20	QPSK	50	56	23.84	23.76	23.63	24.7
20	QPSK	100	0	23.85	23.83	23.77	
20	16QAM	1	1	23.41	23.38	23.53	24.7
20	64QAM	1	1	22.46	22.24	22.23	23.2
20	256QAM	1	1	20.79	20.58	20.53	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.39	24.43	24.29	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.31	24.42	24.36	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.43	24.43	24.26	25.7



n25_Ant 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				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	24.34	24.46	24.53	25.7
20	PI/2 BPSK	1	53	24.34	24.52	24.48	
20	PI/2 BPSK	1	104	24.36	24.50	24.37	
20	PI/2 BPSK	50	0	23.78	23.89	24.00	25.2
20	PI/2 BPSK	50	28	24.34	24.44	24.46	25.7
20	PI/2 BPSK	50	56	23.79	23.97	23.94	25.2
20	PI/2 BPSK	100	0	23.83	24.01	23.96	
20	QPSK	1	1	24.34	24.52	24.49	25.7
20	QPSK	1	53	24.42	24.47	24.52	
20	QPSK	1	104	24.34	24.46	24.37	
20	QPSK	50	0	23.28	23.44	23.50	24.7
20	QPSK	50	28	24.36	24.51	24.48	25.7
20	QPSK	50	56	23.29	23.47	23.44	24.7
20	QPSK	100	0	23.35	23.48	23.52	
20	16QAM	1	1	23.14	23.32	23.31	24.7
20	64QAM	1	1	21.80	21.94	21.99	23.2
20	256QAM	1	1	19.78	19.98	20.08	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	24.34	24.45	24.50	25.7
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	24.32	24.39	24.52	25.7
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	24.24	24.40	24.51	25.7



n66_Ant 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				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.95	24.54	24.54	
20	PI/2 BPSK	1	53	24.51	24.56	24.29	25.7
20	PI/2 BPSK	1	104	24.55	24.49	24.45	
20	PI/2 BPSK	50	0	23.97	23.95	23.72	
20	PI/2 BPSK	50	28	24.45	24.48	24.35	25.2
20	PI/2 BPSK	50	56	23.91	23.93	23.89	
20	PI/2 BPSK	100	0	23.97	23.97	23.95	
20	QPSK	1	1	23.87	24.49	24.55	25.7
20	QPSK	1	53	24.53	24.55	24.16	
20	QPSK	1	104	24.51	24.55	24.48	
20	QPSK	50	0	23.54	23.44	23.47	24.7
20	QPSK	50	28	24.47	24.48	24.20	
20	QPSK	50	56	23.44	23.45	23.41	
20	QPSK	100	0	23.51	23.54	23.44	24.7
20	16QAM	1	1	22.77	23.44	23.57	
20	64QAM	1	1	22.15	22.08	22.13	
20	256QAM	1	1	20.15	20.09	20.09	21.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.85	24.51	24.51	25.7
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.92	24.50	24.47	25.7
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.86	24.45	24.47	25.7



n2_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.89	23.89	23.95	25.5
20	PI/2 BPSK	1	53	23.87	23.96	23.92	
20	PI/2 BPSK	1	104	23.93	23.99	23.91	
20	PI/2 BPSK	50	0	23.37	23.32	23.41	25.0
20	PI/2 BPSK	50	28	23.86	23.93	23.91	25.5
20	PI/2 BPSK	50	56	23.34	23.40	23.41	25.0
20	PI/2 BPSK	100	0	23.34	23.44	23.40	
20	QPSK	1	1	23.75	23.86	23.87	25.5
20	QPSK	1	53	23.72	23.93	23.85	
20	QPSK	1	104	23.76	23.92	23.80	
20	QPSK	50	0	22.79	22.83	22.93	24.5
20	QPSK	50	28	23.83	23.97	23.94	25.5
20	QPSK	50	56	22.88	22.98	22.90	24.5
20	QPSK	100	0	22.93	22.99	22.90	
20	16QAM	1	1	22.61	22.60	22.65	24.5
20	64QAM	1	1	21.48	21.44	21.43	23.0
20	256QAM	1	1	19.44	19.62	19.67	21.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.82	23.85	23.90	25.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.86	23.80	23.87	25.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.85	23.83	23.92	25.5



n5_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.54	23.51	23.44	25.0
20	PI/2 BPSK	1	53	23.40	23.37	23.30	
20	PI/2 BPSK	1	104	22.83	22.16	22.00	
20	PI/2 BPSK	50	0	22.92	22.88	22.79	24.5
20	PI/2 BPSK	50	28	23.39	23.30	23.23	25.0
20	PI/2 BPSK	50	56	22.77	22.71	22.67	24.5
20	PI/2 BPSK	100	0	22.85	22.77	22.77	
20	QPSK	1	1	23.42	23.44	23.38	
20	QPSK	1	53	23.33	23.29	23.22	25.0
20	QPSK	1	104	22.84	22.15	21.99	
20	QPSK	50	0	22.40	22.36	22.32	
20	QPSK	50	28	23.38	23.30	23.26	25.0
20	QPSK	50	56	22.30	22.23	22.14	24.0
20	QPSK	100	0	22.38	22.34	22.29	
20	16QAM	1	1	22.58	22.54	22.47	
20	64QAM	1	1	20.98	20.93	20.85	22.5
20	256QAM	1	1	19.14	19.08	18.94	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.44	23.49	23.36	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.53	23.49	23.34	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.49	23.43	23.34	25.0





n12_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.11	22.16	22.09	23.0
15	PI/2 BPSK	1	40	22.07	22.02	22.00	
15	PI/2 BPSK	1	77	21.91	21.90	21.85	
15	PI/2 BPSK	36	0	21.98	22.07	21.92	23.0
15	PI/2 BPSK	36	22	21.99	21.92	21.94	23.0
15	PI/2 BPSK	36	43	21.91	21.93	21.89	23.0
15	PI/2 BPSK	75	0	22.00	21.97	21.97	
15	QPSK	1	1	22.10	22.11	22.08	
15	QPSK	1	40	21.94	22.05	22.06	23.0
15	QPSK	1	77	21.96	21.90	21.92	
15	QPSK	36	0	21.98	22.01	21.96	
15	QPSK	36	22	22.00	21.99	21.97	23.0
15	QPSK	36	43	21.94	21.88	21.90	23.0
15	QPSK	75	0	22.04	22.03	21.97	
15	16QAM	1	1	22.03	22.02	22.01	
15	64QAM	1	1	21.21	21.24	21.18	22.5
15	256QAM	1	1	19.54	19.52	19.48	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.09	22.13	22.08	23.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.02	22.06	22.05	23.0



n71_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.48	23.43	23.41	25.0
20	PI/2 BPSK	1	53	23.43	23.36	23.28	
20	PI/2 BPSK	1	104	23.29	23.23	23.00	
20	PI/2 BPSK	50	0	22.89	22.80	22.71	24.5
20	PI/2 BPSK	50	28	23.38	23.30	23.14	25.0
20	PI/2 BPSK	50	56	22.84	22.65	22.52	24.5
20	PI/2 BPSK	100	0	22.89	22.79	22.63	
20	QPSK	1	1	23.34	23.34	23.37	
20	QPSK	1	53	23.21	23.29	23.13	25.0
20	QPSK	1	104	23.24	23.15	22.86	
20	QPSK	50	0	22.64	22.47	22.49	
20	QPSK	50	28	23.40	23.28	23.17	25.0
20	QPSK	50	56	22.49	22.42	22.22	24.0
20	QPSK	100	0	22.57	22.48	22.42	
20	16QAM	1	1	22.47	22.62	22.57	
20	64QAM	1	1	21.19	21.03	20.91	22.5
20	256QAM	1	1	19.27	19.05	19.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.45	23.38	23.34	25.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.38	23.35	23.41	25.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.40	23.37	23.35	25.0



n25_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.74	23.78	23.82	25.5
20	PI/2 BPSK	1	53	23.70	23.83	23.77	
20	PI/2 BPSK	1	104	23.82	23.83	23.79	
20	PI/2 BPSK	50	0	23.22	23.32	23.29	25.0
20	PI/2 BPSK	50	28	23.66	23.81	23.76	25.5
20	PI/2 BPSK	50	56	23.22	23.38	23.24	25.0
20	PI/2 BPSK	100	0	23.17	23.31	23.27	
20	QPSK	1	1	23.61	23.76	23.79	25.5
20	QPSK	1	53	23.62	23.76	23.71	
20	QPSK	1	104	23.60	23.76	23.73	
20	QPSK	50	0	22.64	22.83	22.82	24.5
20	QPSK	50	28	23.72	23.82	23.77	25.5
20	QPSK	50	56	22.72	22.77	22.76	24.5
20	QPSK	100	0	22.73	22.88	22.82	
20	16QAM	1	1	22.45	22.53	22.54	24.5
20	64QAM	1	1	21.36	21.43	21.30	23.0
20	256QAM	1	1	19.31	19.50	19.58	21.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.72	23.78	23.81	25.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.70	23.71	23.81	25.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.73	23.72	23.79	25.5



n66_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.85	23.87	23.84	
20	PI/2 BPSK	1	53	23.76	23.83	23.75	
20	PI/2 BPSK	1	104	23.76	23.86	23.70	
20	PI/2 BPSK	50	0	23.29	23.33	23.31	25.0
20	PI/2 BPSK	50	28	23.72	23.78	23.73	25.5
20	PI/2 BPSK	50	56	23.28	23.23	23.15	25.0
20	PI/2 BPSK	100	0	23.26	23.26	23.27	
20	QPSK	1	1	23.71	23.70	23.76	
20	QPSK	1	53	23.69	23.74	23.70	25.5
20	QPSK	1	104	23.69	23.77	23.63	
20	QPSK	50	0	22.75	22.82	22.81	
20	QPSK	50	28	23.77	23.78	23.76	25.5
20	QPSK	50	56	22.80	22.76	22.69	24.5
20	QPSK	100	0	22.79	22.84	22.77	
20	16QAM	1	1	22.54	22.48	22.48	
20	64QAM	1	1	21.34	21.28	21.23	23.0
20	256QAM	1	1	19.52	19.48	19.58	21.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.77	23.80	23.83	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.81	23.77	23.83	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.79	23.85	23.82	25.5



n2_Ant 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				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.57	24.53	24.59	25.7
20	PI/2 BPSK	1	53	24.55	24.60	24.56	
20	PI/2 BPSK	1	104	24.57	24.69	24.57	
20	PI/2 BPSK	50	0	23.91	24.08	24.10	25.2
20	PI/2 BPSK	50	28	24.52	24.56	24.56	25.7
20	PI/2 BPSK	50	56	23.99	24.22	24.10	25.2
20	PI/2 BPSK	100	0	23.97	24.09	24.05	
20	QPSK	1	1	24.55	24.52	24.61	25.7
20	QPSK	1	53	24.56	24.66	24.58	
20	QPSK	1	104	24.56	24.67	24.56	
20	QPSK	50	0	23.38	23.57	23.56	24.7
20	QPSK	50	28	24.51	24.62	24.61	25.7
20	QPSK	50	56	23.50	23.58	23.55	24.7
20	QPSK	100	0	23.51	23.59	23.59	
20	16QAM	1	1	23.28	23.34	23.40	24.7
20	64QAM	1	1	21.92	21.94	22.08	23.2
20	256QAM	1	1	19.90	19.94	20.08	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.56	24.49	24.56	25.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.57	24.50	24.53	25.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.53	24.51	24.49	25.7



n5_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.29	24.24	24.17	25.0
20	PI/2 BPSK	1	53	24.13	24.15	24.06	
20	PI/2 BPSK	1	104	23.96	23.37	23.10	
20	PI/2 BPSK	50	0	23.70	23.63	23.60	24.5
20	PI/2 BPSK	50	28	24.12	24.09	24.06	25.0
20	PI/2 BPSK	50	56	23.57	23.51	23.48	24.5
20	PI/2 BPSK	100	0	23.66	23.56	23.52	
20	QPSK	1	1	24.28	24.21	24.16	25.0
20	QPSK	1	53	24.13	24.10	24.04	
20	QPSK	1	104	23.99	23.91	23.40	
20	QPSK	50	0	23.19	23.20	23.11	24.0
20	QPSK	50	28	24.15	24.12	24.09	25.0
20	QPSK	50	56	23.07	23.04	22.97	24.0
20	QPSK	100	0	23.17	23.14	23.11	
20	16QAM	1	1	22.92	22.83	22.78	24.0
20	64QAM	1	1	21.88	21.80	21.75	22.5
20	256QAM	1	1	19.97	19.88	19.77	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.25	24.24	24.16	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.26	24.08	24.18	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.22	24.04	24.10	25.0



n12_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.91	23.91	23.87	24.7
15	PI/2 BPSK	1	40	23.77	23.72	23.71	
15	PI/2 BPSK	1	77	23.65	23.64	23.62	
15	PI/2 BPSK	36	0	23.25	23.29	23.26	24.2
15	PI/2 BPSK	36	22	23.70	23.67	23.62	24.7
15	PI/2 BPSK	36	43	23.16	23.08	23.10	24.2
15	PI/2 BPSK	75	0	23.22	23.23	23.19	
15	QPSK	1	1	23.78	23.86	23.72	24.7
15	QPSK	1	40	23.71	23.71	23.70	
15	QPSK	1	77	23.61	23.56	23.56	
15	QPSK	36	0	22.77	22.79	22.72	23.7
15	QPSK	36	22	23.65	23.65	23.60	24.7
15	QPSK	36	43	22.72	22.67	22.65	23.7
15	QPSK	75	0	22.72	22.67	22.70	
15	16QAM	1	1	22.52	22.46	22.44	23.7
15	64QAM	1	1	21.32	21.23	21.22	22.2
15	256QAM	1	1	19.66	19.62	19.61	20.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.81	23.65	23.77	24.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.72	23.65	23.81	24.7



n71_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.45	24.40	24.41	25.7
20	PI/2 BPSK	1	53	24.53	24.44	24.43	
20	PI/2 BPSK	1	104	24.39	24.36	24.23	
20	PI/2 BPSK	50	0	24.32	24.14	24.11	25.2
20	PI/2 BPSK	50	28	24.28	24.44	24.28	25.7
20	PI/2 BPSK	50	56	24.19	24.07	23.91	25.2
20	PI/2 BPSK	100	0	24.17	24.17	23.98	
20	QPSK	1	1	24.52	24.43	24.45	
20	QPSK	1	53	24.37	24.36	24.19	25.7
20	QPSK	1	104	24.33	24.28	24.02	
20	QPSK	50	0	23.95	23.76	23.85	
20	QPSK	50	28	24.52	24.41	24.31	25.7
20	QPSK	50	56	23.84	23.76	23.63	24.7
20	QPSK	100	0	23.85	23.83	23.77	
20	16QAM	1	1	23.41	23.38	23.53	
20	64QAM	1	1	22.46	22.24	22.23	23.2
20	256QAM	1	1	20.79	20.58	20.53	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.39	24.43	24.29	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.31	24.42	24.36	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.43	24.43	24.26	25.7





n25_Ant 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				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	24.34	24.46	24.53	25.7
20	PI/2 BPSK	1	53	24.34	24.52	24.48	
20	PI/2 BPSK	1	104	24.36	24.50	24.37	
20	PI/2 BPSK	50	0	23.78	23.89	24.00	25.2
20	PI/2 BPSK	50	28	24.34	24.44	24.46	25.7
20	PI/2 BPSK	50	56	23.79	23.97	23.94	25.2
20	PI/2 BPSK	100	0	23.83	24.01	23.96	
20	QPSK	1	1	24.34	24.52	24.49	25.7
20	QPSK	1	53	24.42	24.47	24.52	
20	QPSK	1	104	24.34	24.46	24.37	
20	QPSK	50	0	23.28	23.44	23.50	24.7
20	QPSK	50	28	24.36	24.51	24.48	25.7
20	QPSK	50	56	23.29	23.47	23.44	24.7
20	QPSK	100	0	23.35	23.48	23.52	
20	16QAM	1	1	23.14	23.32	23.31	24.7
20	64QAM	1	1	21.80	21.94	21.99	23.2
20	256QAM	1	1	19.78	19.98	20.08	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	24.34	24.45	24.50	25.7
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	24.32	24.39	24.52	25.7
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	24.24	24.40	24.51	25.7



n66_Ant 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				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.95	24.54	24.54	
20	PI/2 BPSK	1	53	24.51	24.56	24.29	25.7
20	PI/2 BPSK	1	104	24.55	24.49	24.45	
20	PI/2 BPSK	50	0	23.97	23.95	23.72	
20	PI/2 BPSK	50	28	24.45	24.48	24.35	25.7
20	PI/2 BPSK	50	56	23.91	23.93	23.89	25.2
20	PI/2 BPSK	100	0	23.97	23.97	23.95	
20	QPSK	1	1	23.87	24.49	24.55	
20	QPSK	1	53	24.53	24.55	24.16	25.7
20	QPSK	1	104	24.51	24.55	24.48	
20	QPSK	50	0	23.54	23.44	23.47	
20	QPSK	50	28	24.47	24.48	24.20	25.7
20	QPSK	50	56	23.44	23.45	23.41	24.7
20	QPSK	100	0	23.51	23.54	23.44	
20	16QAM	1	1	22.77	23.44	23.57	
20	64QAM	1	1	22.15	22.08	22.13	23.2
20	256QAM	1	1	20.15	20.09	20.09	21.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.85	24.51	24.51	25.7
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.92	24.50	24.47	25.7
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.86	24.45	24.47	25.7



n2_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.89	23.89	23.95	25.5
20	PI/2 BPSK	1	53	23.87	23.96	23.92	
20	PI/2 BPSK	1	104	23.93	23.99	23.91	
20	PI/2 BPSK	50	0	23.37	23.32	23.41	25.0
20	PI/2 BPSK	50	28	23.86	23.93	23.91	25.5
20	PI/2 BPSK	50	56	23.34	23.40	23.41	25.0
20	PI/2 BPSK	100	0	23.34	23.44	23.40	
20	QPSK	1	1	23.75	23.86	23.87	25.5
20	QPSK	1	53	23.72	23.93	23.85	
20	QPSK	1	104	23.76	23.92	23.80	
20	QPSK	50	0	22.79	22.83	22.93	24.5
20	QPSK	50	28	23.83	23.97	23.94	25.5
20	QPSK	50	56	22.88	22.98	22.90	24.5
20	QPSK	100	0	22.93	22.99	22.90	
20	16QAM	1	1	22.61	22.60	22.65	24.5
20	64QAM	1	1	21.48	21.44	21.43	23.0
20	256QAM	1	1	19.44	19.62	19.67	21.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.82	23.85	23.90	25.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.86	23.80	23.87	25.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.85	23.83	23.92	25.5



n5_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.54	23.51	23.44	25.0
20	PI/2 BPSK	1	53	23.40	23.37	23.30	
20	PI/2 BPSK	1	104	22.83	22.16	22.00	
20	PI/2 BPSK	50	0	22.92	22.88	22.79	24.5
20	PI/2 BPSK	50	28	23.39	23.30	23.23	25.0
20	PI/2 BPSK	50	56	22.77	22.71	22.67	24.5
20	PI/2 BPSK	100	0	22.85	22.77	22.77	
20	QPSK	1	1	23.42	23.44	23.38	25.0
20	QPSK	1	53	23.33	23.29	23.22	
20	QPSK	1	104	22.84	22.15	21.99	
20	QPSK	50	0	22.40	22.36	22.32	24.0
20	QPSK	50	28	23.38	23.30	23.26	25.0
20	QPSK	50	56	22.30	22.23	22.14	24.0
20	QPSK	100	0	22.38	22.34	22.29	
20	16QAM	1	1	22.58	22.54	22.47	24.0
20	64QAM	1	1	20.98	20.93	20.85	22.5
20	256QAM	1	1	19.14	19.08	18.94	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.44	23.49	23.36	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.53	23.49	23.34	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.49	23.43	23.34	25.0



n12_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.11	22.16	22.09	23.0
15	PI/2 BPSK	1	40	22.07	22.02	22.00	
15	PI/2 BPSK	1	77	21.91	21.90	21.85	
15	PI/2 BPSK	36	0	21.98	22.07	21.92	23.0
15	PI/2 BPSK	36	22	21.99	21.92	21.94	23.0
15	PI/2 BPSK	36	43	21.91	21.93	21.89	23.0
15	PI/2 BPSK	75	0	22.00	21.97	21.97	
15	QPSK	1	1	22.10	22.11	22.08	
15	QPSK	1	40	21.94	22.05	22.06	23.0
15	QPSK	1	77	21.96	21.90	21.92	
15	QPSK	36	0	21.98	22.01	21.96	
15	QPSK	36	22	22.00	21.99	21.97	23.0
15	QPSK	36	43	21.94	21.88	21.90	23.0
15	QPSK	75	0	22.04	22.03	21.97	
15	16QAM	1	1	22.03	22.02	22.01	
15	64QAM	1	1	21.21	21.24	21.18	22.5
	256QAM	1	1	19.54	19.52	19.48	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.09	22.13	22.08	23.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.02	22.06	22.05	23.0



n71_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.48	23.43	23.41	25.0
20	PI/2 BPSK	1	53	23.43	23.36	23.28	
20	PI/2 BPSK	1	104	23.29	23.23	23.00	
20	PI/2 BPSK	50	0	22.89	22.80	22.71	24.5
20	PI/2 BPSK	50	28	23.38	23.30	23.14	25.0
20	PI/2 BPSK	50	56	22.84	22.65	22.52	24.5
20	PI/2 BPSK	100	0	22.89	22.79	22.63	
20	QPSK	1	1	23.34	23.34	23.37	
20	QPSK	1	53	23.21	23.29	23.13	25.0
20	QPSK	1	104	23.24	23.15	22.86	
20	QPSK	50	0	22.64	22.47	22.49	
20	QPSK	50	28	23.40	23.28	23.17	25.0
20	QPSK	50	56	22.49	22.42	22.22	24.0
20	QPSK	100	0	22.57	22.48	22.42	
20	16QAM	1	1	22.47	22.62	22.57	
20	64QAM	1	1	21.19	21.03	20.91	22.5
20	256QAM	1	1	19.27	19.05	19.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.45	23.38	23.34	25.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.38	23.35	23.41	25.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.40	23.37	23.35	25.0



n25_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.74	23.78	23.82	25.5
20	PI/2 BPSK	1	53	23.70	23.83	23.77	
20	PI/2 BPSK	1	104	23.82	23.83	23.79	
20	PI/2 BPSK	50	0	23.22	23.32	23.29	25.0
20	PI/2 BPSK	50	28	23.66	23.81	23.76	25.5
20	PI/2 BPSK	50	56	23.22	23.38	23.24	25.0
20	PI/2 BPSK	100	0	23.17	23.31	23.27	
20	QPSK	1	1	23.61	23.76	23.79	25.5
20	QPSK	1	53	23.62	23.76	23.71	
20	QPSK	1	104	23.60	23.76	23.73	
20	QPSK	50	0	22.64	22.83	22.82	24.5
20	QPSK	50	28	23.72	23.82	23.77	25.5
20	QPSK	50	56	22.72	22.77	22.76	24.5
20	QPSK	100	0	22.73	22.88	22.82	
20	16QAM	1	1	22.45	22.53	22.54	24.5
20	64QAM	1	1	21.36	21.43	21.30	23.0
20	256QAM	1	1	19.31	19.50	19.58	21.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.72	23.78	23.81	25.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.70	23.71	23.81	25.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.73	23.72	23.79	25.5



n66_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.85	23.87	23.84	
20	PI/2 BPSK	1	53	23.76	23.83	23.75	
20	PI/2 BPSK	1	104	23.76	23.86	23.70	
20	PI/2 BPSK	50	0	23.29	23.33	23.31	25.0
20	PI/2 BPSK	50	28	23.72	23.78	23.73	25.5
20	PI/2 BPSK	50	56	23.28	23.23	23.15	25.0
20	PI/2 BPSK	100	0	23.26	23.26	23.27	
20	QPSK	1	1	23.71	23.70	23.76	
20	QPSK	1	53	23.69	23.74	23.70	25.5
20	QPSK	1	104	23.69	23.77	23.63	
20	QPSK	50	0	22.75	22.82	22.81	
20	QPSK	50	28	23.77	23.78	23.76	25.5
20	QPSK	50	56	22.80	22.76	22.69	24.5
20	QPSK	100	0	22.79	22.84	22.77	
20	16QAM	1	1	22.54	22.48	22.48	
20	64QAM	1	1	21.34	21.28	21.23	23.0
20	256QAM	1	1	19.52	19.48	19.58	21.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.77	23.80	23.83	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.81	23.77	23.83	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.79	23.85	23.82	25.5





n2_Ant 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				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.57	24.53	24.59	25.7
20	PI/2 BPSK	1	53	24.55	24.60	24.56	
20	PI/2 BPSK	1	104	24.57	24.69	24.57	
20	PI/2 BPSK	50	0	23.91	24.08	24.10	25.2
20	PI/2 BPSK	50	28	24.52	24.56	24.56	25.7
20	PI/2 BPSK	50	56	23.99	24.22	24.10	25.2
20	PI/2 BPSK	100	0	23.97	24.09	24.05	
20	QPSK	1	1	24.55	24.52	24.61	25.7
20	QPSK	1	53	24.56	24.66	24.58	
20	QPSK	1	104	24.56	24.67	24.56	
20	QPSK	50	0	23.38	23.57	23.56	24.7
20	QPSK	50	28	24.51	24.62	24.61	25.7
20	QPSK	50	56	23.50	23.58	23.55	24.7
20	QPSK	100	0	23.51	23.59	23.59	
20	16QAM	1	1	23.28	23.34	23.40	24.7
20	64QAM	1	1	21.92	21.94	22.08	23.2
20	256QAM	1	1	19.90	19.94	20.08	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.56	24.49	24.56	25.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.57	24.50	24.53	25.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.53	24.51	24.49	25.7



n5_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.29	24.24	24.17	25.0
20	PI/2 BPSK	1	53	24.13	24.15	24.06	
20	PI/2 BPSK	1	104	23.96	23.37	23.10	
20	PI/2 BPSK	50	0	23.70	23.63	23.60	24.5
20	PI/2 BPSK	50	28	24.12	24.09	24.06	25.0
20	PI/2 BPSK	50	56	23.57	23.51	23.48	24.5
20	PI/2 BPSK	100	0	23.66	23.56	23.52	
20	QPSK	1	1	24.28	24.21	24.16	25.0
20	QPSK	1	53	24.13	24.10	24.04	
20	QPSK	1	104	23.99	23.91	23.40	
20	QPSK	50	0	23.19	23.20	23.11	24.0
20	QPSK	50	28	24.15	24.12	24.09	25.0
20	QPSK	50	56	23.07	23.04	22.97	24.0
20	QPSK	100	0	23.17	23.14	23.11	
20	16QAM	1	1	22.92	22.83	22.78	24.0
20	64QAM	1	1	21.88	21.80	21.75	22.5
20	256QAM	1	1	19.97	19.88	19.77	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.25	24.24	24.16	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.26	24.08	24.18	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.22	24.04	24.10	25.0



n12_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.91	23.91	23.87	24.7
15	PI/2 BPSK	1	40	23.77	23.72	23.71	
15	PI/2 BPSK	1	77	23.65	23.64	23.62	
15	PI/2 BPSK	36	0	23.25	23.29	23.26	24.2
15	PI/2 BPSK	36	22	23.70	23.67	23.62	24.7
15	PI/2 BPSK	36	43	23.16	23.08	23.10	24.2
15	PI/2 BPSK	75	0	23.22	23.23	23.19	
15	QPSK	1	1	23.78	23.86	23.72	24.7
15	QPSK	1	40	23.71	23.71	23.70	
15	QPSK	1	77	23.61	23.56	23.56	
15	QPSK	36	0	22.77	22.79	22.72	23.7
15	QPSK	36	22	23.65	23.65	23.60	24.7
15	QPSK	36	43	22.72	22.67	22.65	23.7
15	QPSK	75	0	22.72	22.67	22.70	
15	16QAM	1	1	22.52	22.46	22.44	23.7
15	64QAM	1	1	21.32	21.23	21.22	22.2
15	256QAM	1	1	19.66	19.62	19.61	20.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.81	23.65	23.77	24.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.72	23.65	23.81	24.7



n71_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.45	24.40	24.41	25.7
20	PI/2 BPSK	1	53	24.53	24.44	24.43	
20	PI/2 BPSK	1	104	24.39	24.36	24.23	
20	PI/2 BPSK	50	0	24.32	24.14	24.11	25.2
20	PI/2 BPSK	50	28	24.28	24.44	24.28	25.7
20	PI/2 BPSK	50	56	24.19	24.07	23.91	25.2
20	PI/2 BPSK	100	0	24.17	24.17	23.98	
20	QPSK	1	1	24.52	24.43	24.45	
20	QPSK	1	53	24.37	24.36	24.19	25.7
20	QPSK	1	104	24.33	24.28	24.02	
20	QPSK	50	0	23.95	23.76	23.85	
20	QPSK	50	28	24.52	24.41	24.31	25.7
20	QPSK	50	56	23.84	23.76	23.63	24.7
20	QPSK	100	0	23.85	23.83	23.77	
20	16QAM	1	1	23.41	23.38	23.53	
20	64QAM	1	1	22.46	22.24	22.23	23.2
20	256QAM	1	1	20.79	20.58	20.53	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.39	24.43	24.29	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.31	24.42	24.36	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.43	24.43	24.26	25.7



n25_Ant 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				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	24.34	24.46	24.53	25.7
20	PI/2 BPSK	1	53	24.34	24.52	24.48	
20	PI/2 BPSK	1	104	24.36	24.50	24.37	
20	PI/2 BPSK	50	0	23.78	23.89	24.00	25.2
20	PI/2 BPSK	50	28	24.34	24.44	24.46	25.7
20	PI/2 BPSK	50	56	23.79	23.97	23.94	25.2
20	PI/2 BPSK	100	0	23.83	24.01	23.96	
20	QPSK	1	1	24.34	24.52	24.49	25.7
20	QPSK	1	53	24.42	24.47	24.52	
20	QPSK	1	104	24.34	24.46	24.37	
20	QPSK	50	0	23.28	23.44	23.50	24.7
20	QPSK	50	28	24.36	24.51	24.48	25.7
20	QPSK	50	56	23.29	23.47	23.44	24.7
20	QPSK	100	0	23.35	23.48	23.52	
20	16QAM	1	1	23.14	23.32	23.31	24.7
20	64QAM	1	1	21.80	21.94	21.99	23.2
20	256QAM	1	1	19.78	19.98	20.08	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	24.34	24.45	24.50	25.7
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	24.32	24.39	24.52	25.7
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	24.24	24.40	24.51	25.7



n66_Ant 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				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.95	24.54	24.54	
20	PI/2 BPSK	1	53	24.51	24.56	24.29	25.7
20	PI/2 BPSK	1	104	24.55	24.49	24.45	
20	PI/2 BPSK	50	0	23.97	23.95	23.72	
20	PI/2 BPSK	50	28	24.45	24.48	24.35	25.7
20	PI/2 BPSK	50	56	23.91	23.93	23.89	25.2
20	PI/2 BPSK	100	0	23.97	23.97	23.95	
20	QPSK	1	1	23.87	24.49	24.55	
20	QPSK	1	53	24.53	24.55	24.16	25.7
20	QPSK	1	104	24.51	24.55	24.48	
20	QPSK	50	0	23.54	23.44	23.47	
20	QPSK	50	28	24.47	24.48	24.20	25.7
20	QPSK	50	56	23.44	23.45	23.41	24.7
20	QPSK	100	0	23.51	23.54	23.44	
20	16QAM	1	1	22.77	23.44	23.57	
20	64QAM	1	1	22.15	22.08	22.13	23.2
20	256QAM	1	1	20.15	20.09	20.09	21.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.85	24.51	24.51	25.7
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.92	24.50	24.47	25.7
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.86	24.45	24.47	25.7



n2_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.89	23.89	23.95	25.5
20	PI/2 BPSK	1	53	23.87	23.96	23.92	
20	PI/2 BPSK	1	104	23.93	23.99	23.91	
20	PI/2 BPSK	50	0	23.37	23.32	23.41	25.0
20	PI/2 BPSK	50	28	23.86	23.93	23.91	25.5
20	PI/2 BPSK	50	56	23.34	23.40	23.41	25.0
20	PI/2 BPSK	100	0	23.34	23.44	23.40	
20	QPSK	1	1	23.75	23.86	23.87	25.5
20	QPSK	1	53	23.72	23.93	23.85	
20	QPSK	1	104	23.76	23.92	23.80	
20	QPSK	50	0	22.79	22.83	22.93	24.5
20	QPSK	50	28	23.83	23.97	23.94	25.5
20	QPSK	50	56	22.88	22.98	22.90	24.5
20	QPSK	100	0	22.93	22.99	22.90	
20	16QAM	1	1	22.61	22.60	22.65	24.5
20	64QAM	1	1	21.48	21.44	21.43	23.0
20	256QAM	1	1	19.44	19.62	19.67	21.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.82	23.85	23.90	25.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.86	23.80	23.87	25.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.85	23.83	23.92	25.5



n5_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.54	23.51	23.44	25.0
20	PI/2 BPSK	1	53	23.40	23.37	23.30	
20	PI/2 BPSK	1	104	22.83	22.16	22.00	
20	PI/2 BPSK	50	0	22.92	22.88	22.79	24.5
20	PI/2 BPSK	50	28	23.39	23.30	23.23	25.0
20	PI/2 BPSK	50	56	22.77	22.71	22.67	24.5
20	PI/2 BPSK	100	0	22.85	22.77	22.77	
20	QPSK	1	1	23.42	23.44	23.38	
20	QPSK	1	53	23.33	23.29	23.22	25.0
20	QPSK	1	104	22.84	22.15	21.99	
20	QPSK	50	0	22.40	22.36	22.32	
20	QPSK	50	28	23.38	23.30	23.26	25.0
20	QPSK	50	56	22.30	22.23	22.14	24.0
20	QPSK	100	0	22.38	22.34	22.29	
20	16QAM	1	1	22.58	22.54	22.47	
20	64QAM	1	1	20.98	20.93	20.85	22.5
20	256QAM	1	1	19.14	19.08	18.94	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.44	23.49	23.36	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.53	23.49	23.34	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.49	23.43	23.34	25.0





n12_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.11	22.16	22.09	23.0
15	PI/2 BPSK	1	40	22.07	22.02	22.00	
15	PI/2 BPSK	1	77	21.91	21.90	21.85	
15	PI/2 BPSK	36	0	21.98	22.07	21.92	23.0
15	PI/2 BPSK	36	22	21.99	21.92	21.94	23.0
15	PI/2 BPSK	36	43	21.91	21.93	21.89	23.0
15	PI/2 BPSK	75	0	22.00	21.97	21.97	
15	QPSK	1	1	22.10	22.11	22.08	
15	QPSK	1	40	21.94	22.05	22.06	23.0
15	QPSK	1	77	21.96	21.90	21.92	
15	QPSK	36	0	21.98	22.01	21.96	
15	QPSK	36	22	22.00	21.99	21.97	23.0
15	QPSK	36	43	21.94	21.88	21.90	23.0
15	QPSK	75	0	22.04	22.03	21.97	
15	16QAM	1	1	22.03	22.02	22.01	
15	64QAM	1	1	21.21	21.24	21.18	22.5
	256QAM	1	1	19.54	19.52	19.48	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.09	22.13	22.08	23.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.02	22.06	22.05	23.0



n71_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.48	23.43	23.41	25.0
20	PI/2 BPSK	1	53	23.43	23.36	23.28	
20	PI/2 BPSK	1	104	23.29	23.23	23.00	
20	PI/2 BPSK	50	0	22.89	22.80	22.71	24.5
20	PI/2 BPSK	50	28	23.38	23.30	23.14	25.0
20	PI/2 BPSK	50	56	22.84	22.65	22.52	24.5
20	PI/2 BPSK	100	0	22.89	22.79	22.63	
20	QPSK	1	1	23.34	23.34	23.37	
20	QPSK	1	53	23.21	23.29	23.13	25.0
20	QPSK	1	104	23.24	23.15	22.86	
20	QPSK	50	0	22.64	22.47	22.49	
20	QPSK	50	28	23.40	23.28	23.17	25.0
20	QPSK	50	56	22.49	22.42	22.22	24.0
20	QPSK	100	0	22.57	22.48	22.42	
20	16QAM	1	1	22.47	22.62	22.57	
20	64QAM	1	1	21.19	21.03	20.91	22.5
20	256QAM	1	1	19.27	19.05	19.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.45	23.38	23.34	25.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.38	23.35	23.41	25.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.40	23.37	23.35	25.0



n25_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376500	381000	25.5
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.74	23.78	23.82	
20	PI/2 BPSK	1	53	23.70	23.83	23.77	25.0
20	PI/2 BPSK	1	104	23.82	23.83	23.79	
20	PI/2 BPSK	50	0	23.22	23.32	23.29	
20	PI/2 BPSK	50	28	23.66	23.81	23.76	25.0
20	PI/2 BPSK	50	56	23.22	23.38	23.24	
20	PI/2 BPSK	100	0	23.17	23.31	23.27	
20	QPSK	1	1	23.61	23.76	23.79	25.5
20	QPSK	1	53	23.62	23.76	23.71	
20	QPSK	1	104	23.60	23.76	23.73	
20	QPSK	50	0	22.64	22.83	22.82	24.5
20	QPSK	50	28	23.72	23.82	23.77	25.5
20	QPSK	50	56	22.72	22.77	22.76	24.5
20	QPSK	100	0	22.73	22.88	22.82	
20	16QAM	1	1	22.45	22.53	22.54	
20	64QAM	1	1	21.36	21.43	21.30	23.0
20	256QAM	1	1	19.31	19.50	19.58	21.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.72	23.78	23.81	25.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.70	23.71	23.81	25.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.73	23.72	23.79	25.5



n66_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.85	23.87	23.84	
20	PI/2 BPSK	1	53	23.76	23.83	23.75	
20	PI/2 BPSK	1	104	23.76	23.86	23.70	
20	PI/2 BPSK	50	0	23.29	23.33	23.31	25.0
20	PI/2 BPSK	50	28	23.72	23.78	23.73	25.5
20	PI/2 BPSK	50	56	23.28	23.23	23.15	25.0
20	PI/2 BPSK	100	0	23.26	23.26	23.27	
20	QPSK	1	1	23.71	23.70	23.76	
20	QPSK	1	53	23.69	23.74	23.70	25.5
20	QPSK	1	104	23.69	23.77	23.63	
20	QPSK	50	0	22.75	22.82	22.81	
20	QPSK	50	28	23.77	23.78	23.76	25.5
20	QPSK	50	56	22.80	22.76	22.69	24.5
20	QPSK	100	0	22.79	22.84	22.77	
20	16QAM	1	1	22.54	22.48	22.48	
20	64QAM	1	1	21.34	21.28	21.23	23.0
20	256QAM	1	1	19.52	19.48	19.58	21.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.77	23.80	23.83	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.81	23.77	23.83	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.79	23.85	23.82	25.5



n2_Ant 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				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.77	23.72	23.86	25.1
20	PI/2 BPSK	1	53	23.78	23.87	23.87	
20	PI/2 BPSK	1	104	23.86	23.93	23.88	
20	PI/2 BPSK	50	0	23.76	23.74	23.81	25.1
20	PI/2 BPSK	50	28	23.78	23.84	23.85	25.1
20	PI/2 BPSK	50	56	23.79	23.89	23.86	25.1
20	PI/2 BPSK	100	0	23.75	23.84	23.81	
20	QPSK	1	1	23.85	23.82	23.89	25.1
20	QPSK	1	53	23.81	23.91	23.86	
20	QPSK	1	104	23.83	23.92	23.81	
20	QPSK	50	0	23.80	23.79	23.85	24.7
20	QPSK	50	28	23.80	23.90	23.85	25.1
20	QPSK	50	56	23.74	23.87	23.86	24.7
20	QPSK	100	0	23.76	23.91	23.84	
20	16QAM	1	1	23.73	23.69	23.80	24.7
20	64QAM	1	1	22.61	22.58	22.71	23.2
20	256QAM	1	1	20.55	20.56	20.62	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.72	23.63	23.77	25.1
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.77	23.66	23.83	25.1
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.72	23.72	23.81	25.1



n5_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.29	24.24	24.17	25.0
20	PI/2 BPSK	1	53	24.13	24.15	24.06	
20	PI/2 BPSK	1	104	23.96	23.37	23.10	
20	PI/2 BPSK	50	0	23.70	23.63	23.60	24.5
20	PI/2 BPSK	50	28	24.12	24.09	24.06	25.0
20	PI/2 BPSK	50	56	23.57	23.51	23.48	24.5
20	PI/2 BPSK	100	0	23.66	23.56	23.52	
20	QPSK	1	1	24.28	24.21	24.16	25.0
20	QPSK	1	53	24.13	24.10	24.04	
20	QPSK	1	104	23.99	23.91	23.40	
20	QPSK	50	0	23.19	23.20	23.11	24.0
20	QPSK	50	28	24.15	24.12	24.09	25.0
20	QPSK	50	56	23.07	23.04	22.97	24.0
20	QPSK	100	0	23.17	23.14	23.11	
20	16QAM	1	1	22.92	22.83	22.78	24.0
20	64QAM	1	1	21.88	21.80	21.75	22.5
20	256QAM	1	1	19.97	19.88	19.77	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.25	24.24	24.16	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.26	24.08	24.18	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.22	24.04	24.10	25.0



n12_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.91	23.91	23.87	24.7
15	PI/2 BPSK	1	40	23.77	23.72	23.71	
15	PI/2 BPSK	1	77	23.65	23.64	23.62	
15	PI/2 BPSK	36	0	23.25	23.29	23.26	24.2
15	PI/2 BPSK	36	22	23.70	23.67	23.62	24.7
15	PI/2 BPSK	36	43	23.16	23.08	23.10	24.2
15	PI/2 BPSK	75	0	23.22	23.23	23.19	
15	QPSK	1	1	23.78	23.86	23.72	24.7
15	QPSK	1	40	23.71	23.71	23.70	
15	QPSK	1	77	23.61	23.56	23.56	
15	QPSK	36	0	22.77	22.79	22.72	23.7
15	QPSK	36	22	23.65	23.65	23.60	24.7
15	QPSK	36	43	22.72	22.67	22.65	23.7
15	QPSK	75	0	22.72	22.67	22.70	
15	16QAM	1	1	22.52	22.46	22.44	23.7
15	64QAM	1	1	21.32	21.23	21.22	22.2
15	256QAM	1	1	19.66	19.62	19.61	20.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.81	23.65	23.77	24.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.72	23.65	23.81	24.7



n71_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.45	24.40	24.41	25.7
20	PI/2 BPSK	1	53	24.53	24.44	24.43	
20	PI/2 BPSK	1	104	24.39	24.36	24.23	
20	PI/2 BPSK	50	0	24.32	24.14	24.11	25.2
20	PI/2 BPSK	50	28	24.28	24.44	24.28	25.7
20	PI/2 BPSK	50	56	24.19	24.07	23.91	25.2
20	PI/2 BPSK	100	0	24.17	24.17	23.98	
20	QPSK	1	1	24.52	24.43	24.45	
20	QPSK	1	53	24.37	24.36	24.19	25.7
20	QPSK	1	104	24.33	24.28	24.02	
20	QPSK	50	0	23.95	23.76	23.85	
20	QPSK	50	28	24.52	24.41	24.31	25.7
20	QPSK	50	56	23.84	23.76	23.63	24.7
20	QPSK	100	0	23.85	23.83	23.77	
20	16QAM	1	1	23.41	23.38	23.53	
20	64QAM	1	1	22.46	22.24	22.23	23.2
20	256QAM	1	1	20.79	20.58	20.53	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.39	24.43	24.29	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.31	24.42	24.36	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.43	24.43	24.26	25.7





n25_Ant 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				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.56	23.76	23.77	25.1
20	PI/2 BPSK	1	53	23.63	23.81	23.77	
20	PI/2 BPSK	1	104	23.66	23.83	23.78	
20	PI/2 BPSK	50	0	23.52	23.69	23.73	25.1
20	PI/2 BPSK	50	28	23.64	23.76	23.75	25.1
20	PI/2 BPSK	50	56	23.65	23.77	23.76	25.1
20	PI/2 BPSK	100	0	23.58	23.76	23.74	
20	QPSK	1	1	23.59	23.72	23.76	25.1
20	QPSK	1	53	23.60	23.78	23.78	
20	QPSK	1	104	23.61	23.80	23.73	
20	QPSK	50	0	23.55	23.71	23.77	24.7
20	QPSK	50	28	23.63	23.77	23.76	25.1
20	QPSK	50	56	23.64	23.77	23.69	24.7
20	QPSK	100	0	23.64	23.82	23.76	
20	16QAM	1	1	23.51	23.63	23.75	24.7
20	64QAM	1	1	22.39	22.60	22.64	23.2
20	256QAM	1	1	20.36	20.52	20.56	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.54	23.74	23.74	25.1
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.56	23.71	23.70	25.1
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.50	23.66	23.67	25.1



n66_Ant 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				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.77	23.84	23.80	
20	PI/2 BPSK	1	53	23.76	23.77	23.72	
20	PI/2 BPSK	1	104	23.71	23.83	23.70	
20	PI/2 BPSK	50	0	23.75	23.83	23.74	25.1
20	PI/2 BPSK	50	28	23.74	23.78	23.70	25.1
20	PI/2 BPSK	50	56	23.66	23.72	23.62	25.1
20	PI/2 BPSK	100	0	23.72	23.74	23.71	
20	QPSK	1	1	23.74	23.80	23.81	
20	QPSK	1	53	23.75	23.83	23.76	25.1
20	QPSK	1	104	23.74	23.72	23.65	
20	QPSK	50	0	23.73	23.80	23.76	
20	QPSK	50	28	23.73	23.79	23.74	25.1
20	QPSK	50	56	23.70	23.73	23.67	24.7
20	QPSK	100	0	23.74	23.78	23.74	
20	16QAM	1	1	23.73	23.72	23.80	
20	64QAM	1	1	22.66	22.59	22.67	23.2
20	256QAM	1	1	20.53	20.53	20.60	21.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.72	23.74	23.74	25.1
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.68	23.79	23.70	25.1
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.75	23.75	23.75	25.1



n2_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.89	23.89	23.95	25.5
20	PI/2 BPSK	1	53	23.87	23.96	23.92	
20	PI/2 BPSK	1	104	23.93	23.99	23.91	
20	PI/2 BPSK	50	0	23.37	23.32	23.41	25.0
20	PI/2 BPSK	50	28	23.86	23.93	23.91	25.5
20	PI/2 BPSK	50	56	23.34	23.40	23.41	25.0
20	PI/2 BPSK	100	0	23.34	23.44	23.40	
20	QPSK	1	1	23.75	23.86	23.87	25.5
20	QPSK	1	53	23.72	23.93	23.85	
20	QPSK	1	104	23.76	23.92	23.80	
20	QPSK	50	0	22.79	22.83	22.93	24.5
20	QPSK	50	28	23.83	23.97	23.94	25.5
20	QPSK	50	56	22.88	22.98	22.90	24.5
20	QPSK	100	0	22.93	22.99	22.90	
20	16QAM	1	1	22.61	22.60	22.65	24.5
20	64QAM	1	1	21.48	21.44	21.43	23.0
20	256QAM	1	1	19.44	19.62	19.67	21.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.82	23.85	23.90	25.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.86	23.80	23.87	25.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.85	23.83	23.92	25.5



n5_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.54	23.51	23.44	25.0
20	PI/2 BPSK	1	53	23.40	23.37	23.30	
20	PI/2 BPSK	1	104	22.83	22.16	22.00	
20	PI/2 BPSK	50	0	22.92	22.88	22.79	24.5
20	PI/2 BPSK	50	28	23.39	23.30	23.23	25.0
20	PI/2 BPSK	50	56	22.77	22.71	22.67	24.5
20	PI/2 BPSK	100	0	22.85	22.77	22.77	
20	QPSK	1	1	23.42	23.44	23.38	
20	QPSK	1	53	23.33	23.29	23.22	25.0
20	QPSK	1	104	22.84	22.15	21.99	
20	QPSK	50	0	22.40	22.36	22.32	
20	QPSK	50	28	23.38	23.30	23.26	25.0
20	QPSK	50	56	22.30	22.23	22.14	24.0
20	QPSK	100	0	22.38	22.34	22.29	
20	16QAM	1	1	22.58	22.54	22.47	
20	64QAM	1	1	20.98	20.93	20.85	22.5
20	256QAM	1	1	19.14	19.08	18.94	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.44	23.49	23.36	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.53	23.49	23.34	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.49	23.43	23.34	25.0



n12_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.11	22.16	22.09	23.0
15	PI/2 BPSK	1	40	22.07	22.02	22.00	
15	PI/2 BPSK	1	77	21.91	21.90	21.85	
15	PI/2 BPSK	36	0	21.98	22.07	21.92	23.0
15	PI/2 BPSK	36	22	21.99	21.92	21.94	23.0
15	PI/2 BPSK	36	43	21.91	21.93	21.89	23.0
15	PI/2 BPSK	75	0	22.00	21.97	21.97	
15	QPSK	1	1	22.10	22.11	22.08	
15	QPSK	1	40	21.94	22.05	22.06	23.0
15	QPSK	1	77	21.96	21.90	21.92	
15	QPSK	36	0	21.98	22.01	21.96	
15	QPSK	36	22	22.00	21.99	21.97	23.0
15	QPSK	36	43	21.94	21.88	21.90	23.0
15	QPSK	75	0	22.04	22.03	21.97	
15	16QAM	1	1	22.03	22.02	22.01	
15	64QAM	1	1	21.21	21.24	21.18	22.5
	256QAM	1	1	19.54	19.52	19.48	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.09	22.13	22.08	23.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.02	22.06	22.05	23.0



n71_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.48	23.43	23.41	25.0
20	PI/2 BPSK	1	53	23.43	23.36	23.28	
20	PI/2 BPSK	1	104	23.29	23.23	23.00	
20	PI/2 BPSK	50	0	22.89	22.80	22.71	24.5
20	PI/2 BPSK	50	28	23.38	23.30	23.14	25.0
20	PI/2 BPSK	50	56	22.84	22.65	22.52	24.5
20	PI/2 BPSK	100	0	22.89	22.79	22.63	
20	QPSK	1	1	23.34	23.34	23.37	
20	QPSK	1	53	23.21	23.29	23.13	25.0
20	QPSK	1	104	23.24	23.15	22.86	
20	QPSK	50	0	22.64	22.47	22.49	
20	QPSK	50	28	23.40	23.28	23.17	25.0
20	QPSK	50	56	22.49	22.42	22.22	24.0
20	QPSK	100	0	22.57	22.48	22.42	
20	16QAM	1	1	22.47	22.62	22.57	
20	64QAM	1	1	21.19	21.03	20.91	22.5
20	256QAM	1	1	19.27	19.05	19.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.45	23.38	23.34	25.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.38	23.35	23.41	25.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.40	23.37	23.35	25.0



n25_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.74	23.78	23.82	25.5
20	PI/2 BPSK	1	53	23.70	23.83	23.77	
20	PI/2 BPSK	1	104	23.82	23.83	23.79	
20	PI/2 BPSK	50	0	23.22	23.32	23.29	25.0
20	PI/2 BPSK	50	28	23.66	23.81	23.76	25.5
20	PI/2 BPSK	50	56	23.22	23.38	23.24	25.0
20	PI/2 BPSK	100	0	23.17	23.31	23.27	
20	QPSK	1	1	23.61	23.76	23.79	25.5
20	QPSK	1	53	23.62	23.76	23.71	
20	QPSK	1	104	23.60	23.76	23.73	
20	QPSK	50	0	22.64	22.83	22.82	24.5
20	QPSK	50	28	23.72	23.82	23.77	25.5
20	QPSK	50	56	22.72	22.77	22.76	24.5
20	QPSK	100	0	22.73	22.88	22.82	
20	16QAM	1	1	22.45	22.53	22.54	24.5
20	64QAM	1	1	21.36	21.43	21.30	23.0
20	256QAM	1	1	19.31	19.50	19.58	21.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.72	23.78	23.81	25.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.70	23.71	23.81	25.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.73	23.72	23.79	25.5



n66_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.85	23.87	23.84	
20	PI/2 BPSK	1	53	23.76	23.83	23.75	
20	PI/2 BPSK	1	104	23.76	23.86	23.70	
20	PI/2 BPSK	50	0	23.29	23.33	23.31	25.0
20	PI/2 BPSK	50	28	23.72	23.78	23.73	25.5
20	PI/2 BPSK	50	56	23.28	23.23	23.15	25.0
20	PI/2 BPSK	100	0	23.26	23.26	23.27	
20	QPSK	1	1	23.71	23.70	23.76	
20	QPSK	1	53	23.69	23.74	23.70	25.5
20	QPSK	1	104	23.69	23.77	23.63	
20	QPSK	50	0	22.75	22.82	22.81	
20	QPSK	50	28	23.77	23.78	23.76	25.5
20	QPSK	50	56	22.80	22.76	22.69	24.5
20	QPSK	100	0	22.79	22.84	22.77	
20	16QAM	1	1	22.54	22.48	22.48	
20	64QAM	1	1	21.34	21.28	21.23	23.0
20	256QAM	1	1	19.52	19.48	19.58	21.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.77	23.80	23.83	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.81	23.77	23.83	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.79	23.85	23.82	25.5





n2_Ant 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				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.77	23.72	23.86	24.3
20	PI/2 BPSK	1	53	23.78	23.87	23.87	
20	PI/2 BPSK	1	104	23.86	23.93	23.88	
20	PI/2 BPSK	50	0	23.76	23.74	23.81	24.3
20	PI/2 BPSK	50	28	23.78	23.84	23.85	24.3
20	PI/2 BPSK	50	56	23.79	23.89	23.86	24.3
20	PI/2 BPSK	100	0	23.75	23.84	23.81	
20	QPSK	1	1	23.85	23.82	23.89	24.3
20	QPSK	1	53	23.81	23.91	23.86	
20	QPSK	1	104	23.83	23.92	23.81	
20	QPSK	50	0	23.80	23.79	23.85	24.3
20	QPSK	50	28	23.80	23.90	23.85	24.3
20	QPSK	50	56	23.74	23.87	23.86	24.3
20	QPSK	100	0	23.76	23.91	23.84	
20	16QAM	1	1	23.73	23.69	23.80	24.3
20	64QAM	1	1	22.61	22.58	22.71	23.2
20	256QAM	1	1	20.55	20.56	20.62	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.72	23.63	23.77	24.3
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.77	23.66	23.83	24.3
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.72	23.72	23.81	24.3



n5_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.29	24.24	24.17	25.0
20	PI/2 BPSK	1	53	24.13	24.15	24.06	
20	PI/2 BPSK	1	104	23.96	23.37	23.10	
20	PI/2 BPSK	50	0	23.70	23.63	23.60	24.5
20	PI/2 BPSK	50	28	24.12	24.09	24.06	25.0
20	PI/2 BPSK	50	56	23.57	23.51	23.48	24.5
20	PI/2 BPSK	100	0	23.66	23.56	23.52	
20	QPSK	1	1	24.28	24.21	24.16	25.0
20	QPSK	1	53	24.13	24.10	24.04	
20	QPSK	1	104	23.99	23.91	23.40	
20	QPSK	50	0	23.19	23.20	23.11	24.0
20	QPSK	50	28	24.15	24.12	24.09	25.0
20	QPSK	50	56	23.07	23.04	22.97	24.0
20	QPSK	100	0	23.17	23.14	23.11	
20	16QAM	1	1	22.92	22.83	22.78	24.0
20	64QAM	1	1	21.88	21.80	21.75	22.5
20	256QAM	1	1	19.97	19.88	19.77	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.25	24.24	24.16	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.26	24.08	24.18	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.22	24.04	24.10	25.0



n12_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.91	23.91	23.87	24.7
15	PI/2 BPSK	1	40	23.77	23.72	23.71	
15	PI/2 BPSK	1	77	23.65	23.64	23.62	
15	PI/2 BPSK	36	0	23.25	23.29	23.26	24.2
15	PI/2 BPSK	36	22	23.70	23.67	23.62	24.7
15	PI/2 BPSK	36	43	23.16	23.08	23.10	24.2
15	PI/2 BPSK	75	0	23.22	23.23	23.19	
15	QPSK	1	1	23.78	23.86	23.72	24.7
15	QPSK	1	40	23.71	23.71	23.70	
15	QPSK	1	77	23.61	23.56	23.56	
15	QPSK	36	0	22.77	22.79	22.72	23.7
15	QPSK	36	22	23.65	23.65	23.60	24.7
15	QPSK	36	43	22.72	22.67	22.65	23.7
15	QPSK	75	0	22.72	22.67	22.70	
15	16QAM	1	1	22.52	22.46	22.44	23.7
15	64QAM	1	1	21.32	21.23	21.22	22.2
15	256QAM	1	1	19.66	19.62	19.61	20.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.81	23.65	23.77	24.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.72	23.65	23.81	24.7



n71_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.45	24.40	24.41	25.7
20	PI/2 BPSK	1	53	24.53	24.44	24.43	
20	PI/2 BPSK	1	104	24.39	24.36	24.23	
20	PI/2 BPSK	50	0	24.32	24.14	24.11	25.2
20	PI/2 BPSK	50	28	24.28	24.44	24.28	25.7
20	PI/2 BPSK	50	56	24.19	24.07	23.91	25.2
20	PI/2 BPSK	100	0	24.17	24.17	23.98	
20	QPSK	1	1	24.52	24.43	24.45	25.7
20	QPSK	1	53	24.37	24.36	24.19	
20	QPSK	1	104	24.33	24.28	24.02	
20	QPSK	50	0	23.95	23.76	23.85	24.7
20	QPSK	50	28	24.52	24.41	24.31	25.7
20	QPSK	50	56	23.84	23.76	23.63	24.7
20	QPSK	100	0	23.85	23.83	23.77	
20	16QAM	1	1	23.41	23.38	23.53	24.7
20	64QAM	1	1	22.46	22.24	22.23	23.2
20	256QAM	1	1	20.79	20.58	20.53	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.39	24.43	24.29	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.31	24.42	24.36	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.43	24.43	24.26	25.7



n25_Ant 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				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.56	23.76	23.77	24.3
20	PI/2 BPSK	1	53	23.63	23.81	23.77	
20	PI/2 BPSK	1	104	23.66	23.83	23.78	
20	PI/2 BPSK	50	0	23.52	23.69	23.73	24.3
20	PI/2 BPSK	50	28	23.64	23.76	23.75	24.3
20	PI/2 BPSK	50	56	23.65	23.77	23.76	24.3
20	PI/2 BPSK	100	0	23.58	23.76	23.74	
20	QPSK	1	1	23.59	23.72	23.76	24.3
20	QPSK	1	53	23.60	23.78	23.78	
20	QPSK	1	104	23.61	23.80	23.73	
20	QPSK	50	0	23.55	23.71	23.77	24.3
20	QPSK	50	28	23.63	23.77	23.76	24.3
20	QPSK	50	56	23.64	23.77	23.69	24.3
20	QPSK	100	0	23.64	23.82	23.76	
20	16QAM	1	1	23.51	23.63	23.75	24.3
20	64QAM	1	1	22.39	22.60	22.64	23.2
20	256QAM	1	1	20.36	20.52	20.56	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.54	23.74	23.74	24.3
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.56	23.71	23.70	24.3
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.50	23.66	23.67	24.3



n66_Ant 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				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.77	23.84	23.80	
20	PI/2 BPSK	1	53	23.76	23.77	23.72	
20	PI/2 BPSK	1	104	23.71	23.83	23.70	
20	PI/2 BPSK	50	0	23.75	23.83	23.74	24.3
20	PI/2 BPSK	50	28	23.74	23.78	23.70	24.3
20	PI/2 BPSK	50	56	23.66	23.72	23.62	24.3
20	PI/2 BPSK	100	0	23.72	23.74	23.71	
20	QPSK	1	1	23.74	23.80	23.81	
20	QPSK	1	53	23.75	23.83	23.76	24.3
20	QPSK	1	104	23.74	23.72	23.65	
20	QPSK	50	0	23.73	23.80	23.76	
20	QPSK	50	28	23.73	23.79	23.74	24.3
20	QPSK	50	56	23.70	23.73	23.67	24.3
20	QPSK	100	0	23.74	23.78	23.74	
20	16QAM	1	1	23.73	23.72	23.80	
20	64QAM	1	1	22.66	22.59	22.67	23.2
20	256QAM	1	1	20.53	20.53	20.60	21.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.72	23.74	23.74	24.3
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.68	23.79	23.70	24.3
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.75	23.75	23.75	24.3



n2_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.89	23.89	23.95	25.5
20	PI/2 BPSK	1	53	23.87	23.96	23.92	
20	PI/2 BPSK	1	104	23.93	23.99	23.91	
20	PI/2 BPSK	50	0	23.37	23.32	23.41	25.0
20	PI/2 BPSK	50	28	23.86	23.93	23.91	25.5
20	PI/2 BPSK	50	56	23.34	23.40	23.41	25.0
20	PI/2 BPSK	100	0	23.34	23.44	23.40	
20	QPSK	1	1	23.75	23.86	23.87	25.5
20	QPSK	1	53	23.72	23.93	23.85	
20	QPSK	1	104	23.76	23.92	23.80	
20	QPSK	50	0	22.79	22.83	22.93	24.5
20	QPSK	50	28	23.83	23.97	23.94	25.5
20	QPSK	50	56	22.88	22.98	22.90	24.5
20	QPSK	100	0	22.93	22.99	22.90	
20	16QAM	1	1	22.61	22.60	22.65	24.5
20	64QAM	1	1	21.48	21.44	21.43	23.0
20	256QAM	1	1	19.44	19.62	19.67	21.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.82	23.85	23.90	25.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.86	23.80	23.87	25.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.85	23.83	23.92	25.5



n5_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.54	23.51	23.44	25.0
20	PI/2 BPSK	1	53	23.40	23.37	23.30	
20	PI/2 BPSK	1	104	22.83	22.16	22.00	
20	PI/2 BPSK	50	0	22.92	22.88	22.79	24.5
20	PI/2 BPSK	50	28	23.39	23.30	23.23	25.0
20	PI/2 BPSK	50	56	22.77	22.71	22.67	24.5
20	PI/2 BPSK	100	0	22.85	22.77	22.77	
20	QPSK	1	1	23.42	23.44	23.38	
20	QPSK	1	53	23.33	23.29	23.22	25.0
20	QPSK	1	104	22.84	22.15	21.99	
20	QPSK	50	0	22.40	22.36	22.32	
20	QPSK	50	28	23.38	23.30	23.26	25.0
20	QPSK	50	56	22.30	22.23	22.14	24.0
20	QPSK	100	0	22.38	22.34	22.29	
20	16QAM	1	1	22.58	22.54	22.47	
20	64QAM	1	1	20.98	20.93	20.85	22.5
20	256QAM	1	1	19.14	19.08	18.94	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.44	23.49	23.36	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.53	23.49	23.34	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.49	23.43	23.34	25.0





n12_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.11	22.16	22.09	23.0
15	PI/2 BPSK	1	40	22.07	22.02	22.00	
15	PI/2 BPSK	1	77	21.91	21.90	21.85	
15	PI/2 BPSK	36	0	21.98	22.07	21.92	23.0
15	PI/2 BPSK	36	22	21.99	21.92	21.94	23.0
15	PI/2 BPSK	36	43	21.91	21.93	21.89	23.0
15	PI/2 BPSK	75	0	22.00	21.97	21.97	
15	QPSK	1	1	22.10	22.11	22.08	
15	QPSK	1	40	21.94	22.05	22.06	23.0
15	QPSK	1	77	21.96	21.90	21.92	
15	QPSK	36	0	21.98	22.01	21.96	
15	QPSK	36	22	22.00	21.99	21.97	23.0
15	QPSK	36	43	21.94	21.88	21.90	23.0
15	QPSK	75	0	22.04	22.03	21.97	
15	16QAM	1	1	22.03	22.02	22.01	
15	64QAM	1	1	21.21	21.24	21.18	22.5
	256QAM	1	1	19.54	19.52	19.48	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.09	22.13	22.08	23.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.02	22.06	22.05	23.0



n71_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.48	23.43	23.41	25.0
20	PI/2 BPSK	1	53	23.43	23.36	23.28	
20	PI/2 BPSK	1	104	23.29	23.23	23.00	
20	PI/2 BPSK	50	0	22.89	22.80	22.71	24.5
20	PI/2 BPSK	50	28	23.38	23.30	23.14	25.0
20	PI/2 BPSK	50	56	22.84	22.65	22.52	24.5
20	PI/2 BPSK	100	0	22.89	22.79	22.63	
20	QPSK	1	1	23.34	23.34	23.37	
20	QPSK	1	53	23.21	23.29	23.13	25.0
20	QPSK	1	104	23.24	23.15	22.86	
20	QPSK	50	0	22.64	22.47	22.49	
20	QPSK	50	28	23.40	23.28	23.17	25.0
20	QPSK	50	56	22.49	22.42	22.22	24.0
20	QPSK	100	0	22.57	22.48	22.42	
20	16QAM	1	1	22.47	22.62	22.57	
20	64QAM	1	1	21.19	21.03	20.91	22.5
20	256QAM	1	1	19.27	19.05	19.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.45	23.38	23.34	25.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.38	23.35	23.41	25.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.40	23.37	23.35	25.0



n25_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376500	381000	25.5
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.74	23.78	23.82	
20	PI/2 BPSK	1	53	23.70	23.83	23.77	25.0
20	PI/2 BPSK	1	104	23.82	23.83	23.79	
20	PI/2 BPSK	50	0	23.22	23.32	23.29	
20	PI/2 BPSK	50	28	23.66	23.81	23.76	25.0
20	PI/2 BPSK	50	56	23.22	23.38	23.24	
20	PI/2 BPSK	100	0	23.17	23.31	23.27	
20	QPSK	1	1	23.61	23.76	23.79	25.5
20	QPSK	1	53	23.62	23.76	23.71	
20	QPSK	1	104	23.60	23.76	23.73	
20	QPSK	50	0	22.64	22.83	22.82	24.5
20	QPSK	50	28	23.72	23.82	23.77	25.5
20	QPSK	50	56	22.72	22.77	22.76	24.5
20	QPSK	100	0	22.73	22.88	22.82	
20	16QAM	1	1	22.45	22.53	22.54	
20	64QAM	1	1	21.36	21.43	21.30	23.0
20	256QAM	1	1	19.31	19.50	19.58	21.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.72	23.78	23.81	25.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.70	23.71	23.81	25.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.73	23.72	23.79	25.5



n66_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.85	23.87	23.84	
20	PI/2 BPSK	1	53	23.76	23.83	23.75	
20	PI/2 BPSK	1	104	23.76	23.86	23.70	
20	PI/2 BPSK	50	0	23.29	23.33	23.31	25.0
20	PI/2 BPSK	50	28	23.72	23.78	23.73	25.5
20	PI/2 BPSK	50	56	23.28	23.23	23.15	25.0
20	PI/2 BPSK	100	0	23.26	23.26	23.27	
20	QPSK	1	1	23.71	23.70	23.76	
20	QPSK	1	53	23.69	23.74	23.70	25.5
20	QPSK	1	104	23.69	23.77	23.63	
20	QPSK	50	0	22.75	22.82	22.81	
20	QPSK	50	28	23.77	23.78	23.76	25.5
20	QPSK	50	56	22.80	22.76	22.69	24.5
20	QPSK	100	0	22.79	22.84	22.77	
20	16QAM	1	1	22.54	22.48	22.48	
20	64QAM	1	1	21.34	21.28	21.23	23.0
20	256QAM	1	1	19.52	19.48	19.58	21.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.77	23.80	23.83	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.81	23.77	23.83	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.79	23.85	23.82	25.5



n2_Ant 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				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.77	23.72	23.86	24.7
20	PI/2 BPSK	1	53	23.78	23.87	23.87	
20	PI/2 BPSK	1	104	23.86	23.93	23.88	
20	PI/2 BPSK	50	0	23.76	23.74	23.81	24.7
20	PI/2 BPSK	50	28	23.78	23.84	23.85	24.7
20	PI/2 BPSK	50	56	23.79	23.89	23.86	24.7
20	PI/2 BPSK	100	0	23.75	23.84	23.81	
20	QPSK	1	1	23.85	23.82	23.89	24.7
20	QPSK	1	53	23.81	23.91	23.86	
20	QPSK	1	104	23.83	23.92	23.81	
20	QPSK	50	0	23.80	23.79	23.85	24.7
20	QPSK	50	28	23.80	23.90	23.85	24.7
20	QPSK	50	56	23.74	23.87	23.86	24.7
20	QPSK	100	0	23.76	23.91	23.84	
20	16QAM	1	1	23.73	23.69	23.80	24.7
20	64QAM	1	1	22.61	22.58	22.71	23.2
20	256QAM	1	1	20.55	20.56	20.62	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.72	23.63	23.77	24.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.77	23.66	23.83	24.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.72	23.72	23.81	24.7



n5_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.29	24.24	24.17	25.0
20	PI/2 BPSK	1	53	24.13	24.15	24.06	
20	PI/2 BPSK	1	104	23.96	23.37	23.10	
20	PI/2 BPSK	50	0	23.70	23.63	23.60	24.5
20	PI/2 BPSK	50	28	24.12	24.09	24.06	25.0
20	PI/2 BPSK	50	56	23.57	23.51	23.48	24.5
20	PI/2 BPSK	100	0	23.66	23.56	23.52	
20	QPSK	1	1	24.28	24.21	24.16	25.0
20	QPSK	1	53	24.13	24.10	24.04	
20	QPSK	1	104	23.99	23.91	23.40	
20	QPSK	50	0	23.19	23.20	23.11	24.0
20	QPSK	50	28	24.15	24.12	24.09	25.0
20	QPSK	50	56	23.07	23.04	22.97	24.0
20	QPSK	100	0	23.17	23.14	23.11	
20	16QAM	1	1	22.92	22.83	22.78	24.0
20	64QAM	1	1	21.88	21.80	21.75	22.5
20	256QAM	1	1	19.97	19.88	19.77	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.25	24.24	24.16	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.26	24.08	24.18	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.22	24.04	24.10	25.0



n12_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.91	23.91	23.87	24.7
15	PI/2 BPSK	1	40	23.77	23.72	23.71	
15	PI/2 BPSK	1	77	23.65	23.64	23.62	
15	PI/2 BPSK	36	0	23.25	23.29	23.26	24.2
15	PI/2 BPSK	36	22	23.70	23.67	23.62	24.7
15	PI/2 BPSK	36	43	23.16	23.08	23.10	24.2
15	PI/2 BPSK	75	0	23.22	23.23	23.19	
15	QPSK	1	1	23.78	23.86	23.72	24.7
15	QPSK	1	40	23.71	23.71	23.70	
15	QPSK	1	77	23.61	23.56	23.56	
15	QPSK	36	0	22.77	22.79	22.72	23.7
15	QPSK	36	22	23.65	23.65	23.60	24.7
15	QPSK	36	43	22.72	22.67	22.65	23.7
15	QPSK	75	0	22.72	22.67	22.70	
15	16QAM	1	1	22.52	22.46	22.44	23.7
15	64QAM	1	1	21.32	21.23	21.22	22.2
15	256QAM	1	1	19.66	19.62	19.61	20.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.81	23.65	23.77	24.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.72	23.65	23.81	24.7



n71_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.45	24.40	24.41	25.7
20	PI/2 BPSK	1	53	24.53	24.44	24.43	
20	PI/2 BPSK	1	104	24.39	24.36	24.23	
20	PI/2 BPSK	50	0	24.32	24.14	24.11	25.2
20	PI/2 BPSK	50	28	24.28	24.44	24.28	25.7
20	PI/2 BPSK	50	56	24.19	24.07	23.91	25.2
20	PI/2 BPSK	100	0	24.17	24.17	23.98	
20	QPSK	1	1	24.52	24.43	24.45	
20	QPSK	1	53	24.37	24.36	24.19	25.7
20	QPSK	1	104	24.33	24.28	24.02	
20	QPSK	50	0	23.95	23.76	23.85	
20	QPSK	50	28	24.52	24.41	24.31	25.7
20	QPSK	50	56	23.84	23.76	23.63	24.7
20	QPSK	100	0	23.85	23.83	23.77	
20	16QAM	1	1	23.41	23.38	23.53	
20	64QAM	1	1	22.46	22.24	22.23	23.2
20	256QAM	1	1	20.79	20.58	20.53	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.39	24.43	24.29	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.31	24.42	24.36	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.43	24.43	24.26	25.7





n25_Ant 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				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.56	23.76	23.77	24.7
20	PI/2 BPSK	1	53	23.63	23.81	23.77	
20	PI/2 BPSK	1	104	23.66	23.83	23.78	
20	PI/2 BPSK	50	0	23.52	23.69	23.73	24.7
20	PI/2 BPSK	50	28	23.64	23.76	23.75	24.7
20	PI/2 BPSK	50	56	23.65	23.77	23.76	24.7
20	PI/2 BPSK	100	0	23.58	23.76	23.74	
20	QPSK	1	1	23.59	23.72	23.76	24.7
20	QPSK	1	53	23.60	23.78	23.78	
20	QPSK	1	104	23.61	23.80	23.73	
20	QPSK	50	0	23.55	23.71	23.77	24.7
20	QPSK	50	28	23.63	23.77	23.76	24.7
20	QPSK	50	56	23.64	23.77	23.69	24.7
20	QPSK	100	0	23.64	23.82	23.76	
20	16QAM	1	1	23.51	23.63	23.75	24.7
20	64QAM	1	1	22.39	22.60	22.64	23.2
20	256QAM	1	1	20.36	20.52	20.56	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	Tune-up limit (dBm)
15	PI/2 BPSK	1	1	23.54	23.74	23.74	24.7
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	Tune-up limit (dBm)
10	PI/2 BPSK	1	1	23.56	23.71	23.70	24.7
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	Tune-up limit (dBm)
5	PI/2 BPSK	1	1	23.50	23.66	23.67	24.7



n66_Ant 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				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.77	23.84	23.80	
20	PI/2 BPSK	1	53	23.76	23.77	23.72	24.3
20	PI/2 BPSK	1	104	23.71	23.83	23.70	
20	PI/2 BPSK	50	0	23.75	23.83	23.74	
20	PI/2 BPSK	50	28	23.74	23.78	23.70	24.3
20	PI/2 BPSK	50	56	23.66	23.72	23.62	24.3
20	PI/2 BPSK	100	0	23.72	23.74	23.71	
20	QPSK	1	1	23.74	23.80	23.81	
20	QPSK	1	53	23.75	23.83	23.76	24.3
20	QPSK	1	104	23.74	23.72	23.65	
20	QPSK	50	0	23.73	23.80	23.76	
20	QPSK	50	28	23.73	23.79	23.74	24.3
20	QPSK	50	56	23.70	23.73	23.67	24.3
20	QPSK	100	0	23.74	23.78	23.74	
20	16QAM	1	1	23.73	23.72	23.80	
20	64QAM	1	1	22.66	22.59	22.67	23.2
20	256QAM	1	1	20.53	20.53	20.60	21.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.72	23.74	23.74	24.3
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.68	23.79	23.70	24.3
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.75	23.75	23.75	24.3



n2_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.89	23.89	23.95	25.5
20	PI/2 BPSK	1	53	23.87	23.96	23.92	
20	PI/2 BPSK	1	104	23.93	23.99	23.91	
20	PI/2 BPSK	50	0	23.37	23.32	23.41	25.0
20	PI/2 BPSK	50	28	23.86	23.93	23.91	25.5
20	PI/2 BPSK	50	56	23.34	23.40	23.41	25.0
20	PI/2 BPSK	100	0	23.34	23.44	23.40	
20	QPSK	1	1	23.75	23.86	23.87	25.5
20	QPSK	1	53	23.72	23.93	23.85	
20	QPSK	1	104	23.76	23.92	23.80	
20	QPSK	50	0	22.79	22.83	22.93	24.5
20	QPSK	50	28	23.83	23.97	23.94	25.5
20	QPSK	50	56	22.88	22.98	22.90	24.5
20	QPSK	100	0	22.93	22.99	22.90	
20	16QAM	1	1	22.61	22.60	22.65	24.5
20	64QAM	1	1	21.48	21.44	21.43	23.0
20	256QAM	1	1	19.44	19.62	19.67	21.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.82	23.85	23.90	25.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.86	23.80	23.87	25.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.85	23.83	23.92	25.5



n5_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.54	23.51	23.44	25.0
20	PI/2 BPSK	1	53	23.40	23.37	23.30	
20	PI/2 BPSK	1	104	22.83	22.16	22.00	
20	PI/2 BPSK	50	0	22.92	22.88	22.79	24.5
20	PI/2 BPSK	50	28	23.39	23.30	23.23	25.0
20	PI/2 BPSK	50	56	22.77	22.71	22.67	24.5
20	PI/2 BPSK	100	0	22.85	22.77	22.77	
20	QPSK	1	1	23.42	23.44	23.38	
20	QPSK	1	53	23.33	23.29	23.22	25.0
20	QPSK	1	104	22.84	22.15	21.99	
20	QPSK	50	0	22.40	22.36	22.32	
20	QPSK	50	28	23.38	23.30	23.26	25.0
20	QPSK	50	56	22.30	22.23	22.14	24.0
20	QPSK	100	0	22.38	22.34	22.29	
20	16QAM	1	1	22.58	22.54	22.47	
20	64QAM	1	1	20.98	20.93	20.85	22.5
20	256QAM	1	1	19.14	19.08	18.94	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.44	23.49	23.36	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.53	23.49	23.34	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.49	23.43	23.34	25.0



n12_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.11	22.16	22.09	23.0
15	PI/2 BPSK	1	40	22.07	22.02	22.00	
15	PI/2 BPSK	1	77	21.91	21.90	21.85	
15	PI/2 BPSK	36	0	21.98	22.07	21.92	23.0
15	PI/2 BPSK	36	22	21.99	21.92	21.94	23.0
15	PI/2 BPSK	36	43	21.91	21.93	21.89	23.0
15	PI/2 BPSK	75	0	22.00	21.97	21.97	
15	QPSK	1	1	22.10	22.11	22.08	
15	QPSK	1	40	21.94	22.05	22.06	23.0
15	QPSK	1	77	21.96	21.90	21.92	
15	QPSK	36	0	21.98	22.01	21.96	
15	QPSK	36	22	22.00	21.99	21.97	23.0
15	QPSK	36	43	21.94	21.88	21.90	23.0
15	QPSK	75	0	22.04	22.03	21.97	
15	16QAM	1	1	22.03	22.02	22.01	
15	64QAM	1	1	21.21	21.24	21.18	22.5
	256QAM	1	1	19.54	19.52	19.48	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.09	22.13	22.08	23.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.02	22.06	22.05	23.0



n71_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.48	23.43	23.41	25.0
20	PI/2 BPSK	1	53	23.43	23.36	23.28	
20	PI/2 BPSK	1	104	23.29	23.23	23.00	
20	PI/2 BPSK	50	0	22.89	22.80	22.71	24.5
20	PI/2 BPSK	50	28	23.38	23.30	23.14	25.0
20	PI/2 BPSK	50	56	22.84	22.65	22.52	24.5
20	PI/2 BPSK	100	0	22.89	22.79	22.63	
20	QPSK	1	1	23.34	23.34	23.37	
20	QPSK	1	53	23.21	23.29	23.13	25.0
20	QPSK	1	104	23.24	23.15	22.86	
20	QPSK	50	0	22.64	22.47	22.49	
20	QPSK	50	28	23.40	23.28	23.17	25.0
20	QPSK	50	56	22.49	22.42	22.22	24.0
20	QPSK	100	0	22.57	22.48	22.42	
20	16QAM	1	1	22.47	22.62	22.57	
20	64QAM	1	1	21.19	21.03	20.91	22.5
20	256QAM	1	1	19.27	19.05	19.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.45	23.38	23.34	25.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.38	23.35	23.41	25.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.40	23.37	23.35	25.0



n25_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.74	23.78	23.82	25.5
20	PI/2 BPSK	1	53	23.70	23.83	23.77	
20	PI/2 BPSK	1	104	23.82	23.83	23.79	
20	PI/2 BPSK	50	0	23.22	23.32	23.29	25.0
20	PI/2 BPSK	50	28	23.66	23.81	23.76	25.5
20	PI/2 BPSK	50	56	23.22	23.38	23.24	25.0
20	PI/2 BPSK	100	0	23.17	23.31	23.27	
20	QPSK	1	1	23.61	23.76	23.79	25.5
20	QPSK	1	53	23.62	23.76	23.71	
20	QPSK	1	104	23.60	23.76	23.73	
20	QPSK	50	0	22.64	22.83	22.82	24.5
20	QPSK	50	28	23.72	23.82	23.77	25.5
20	QPSK	50	56	22.72	22.77	22.76	24.5
20	QPSK	100	0	22.73	22.88	22.82	
20	16QAM	1	1	22.45	22.53	22.54	24.5
20	64QAM	1	1	21.36	21.43	21.30	23.0
20	256QAM	1	1	19.31	19.50	19.58	21.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.72	23.78	23.81	25.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.70	23.71	23.81	25.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.73	23.72	23.79	25.5



n66_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.85	23.87	23.84	
20	PI/2 BPSK	1	53	23.76	23.83	23.75	
20	PI/2 BPSK	1	104	23.76	23.86	23.70	
20	PI/2 BPSK	50	0	23.29	23.33	23.31	25.0
20	PI/2 BPSK	50	28	23.72	23.78	23.73	25.5
20	PI/2 BPSK	50	56	23.28	23.23	23.15	25.0
20	PI/2 BPSK	100	0	23.26	23.26	23.27	
20	QPSK	1	1	23.71	23.70	23.76	
20	QPSK	1	53	23.69	23.74	23.70	25.5
20	QPSK	1	104	23.69	23.77	23.63	
20	QPSK	50	0	22.75	22.82	22.81	
20	QPSK	50	28	23.77	23.78	23.76	25.5
20	QPSK	50	56	22.80	22.76	22.69	24.5
20	QPSK	100	0	22.79	22.84	22.77	
20	16QAM	1	1	22.54	22.48	22.48	
20	64QAM	1	1	21.34	21.28	21.23	23.0
20	256QAM	1	1	19.52	19.48	19.58	21.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.77	23.80	23.83	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.81	23.77	23.83	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.79	23.85	23.82	25.5





n41_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.64	24.69	24.59	25.7
100	PI/2 BPSK	1	137	24.76	24.70	24.66	
100	PI/2 BPSK	1	271	24.67	24.61	24.56	
100	PI/2 BPSK	135	0	24.15	24.16	24.00	25.2
100	PI/2 BPSK	135	69	24.65	24.63	24.58	25.7
100	PI/2 BPSK	135	138	24.25	24.10	24.02	25.2
100	PI/2 BPSK	270	0	24.20	24.12	24.09	
100	QPSK	1	1	24.72	24.63	24.64	25.7
100	QPSK	1	137	24.76	24.56	24.64	
100	QPSK	1	271	24.67	24.59	24.57	
100	QPSK	135	0	23.67	23.66	23.49	25.7
100	QPSK	135	69	24.63	24.54	24.57	
100	QPSK	135	138	23.65	23.51	23.55	
100	QPSK	270	0	23.69	23.62	23.55	24.7
100	16QAM	1	1	23.79	23.88	23.74	24.7
100	64QAM	1	1	22.29	22.36	22.28	23.2
100	256QAM	1	1	20.38	20.39	20.28	21.2
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.60	24.53	24.49	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.64	24.61	24.59	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.58	24.59	24.60	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.60	24.64	24.52	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.61	24.55	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.54	24.51	24.55	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.39	24.51	24.44	25.7



n41_HPUE PC2_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.07	26.76	25.88	27.5
100	PI/2 BPSK	1	137	26.03	26.04	25.78	
100	PI/2 BPSK	1	271	26.50	26.59	26.58	
100	PI/2 BPSK	135	0	26.08	26.10	26.08	27.0
100	PI/2 BPSK	135	69	26.15	26.34	26.20	27.5
100	PI/2 BPSK	135	138	26.33	26.33	23.30	27.0
100	PI/2 BPSK	270	0	26.27	26.33	26.26	
100	QPSK	1	1	26.65	26.75	26.66	27.5
100	QPSK	1	137	26.18	26.24	26.18	
100	QPSK	1	271	26.53	26.61	26.60	
100	QPSK	135	0	25.91	25.92	25.86	26.5
100	QPSK	135	69	26.12	26.12	26.04	27.5
100	QPSK	135	138	25.91	25.96	25.91	26.5
100	QPSK	270	0	25.84	25.92	25.84	
100	16QAM	1	1	26.15	26.19	26.19	26.5
100	64QAM	1	1	24.66	24.66	24.64	25.0
100	256QAM	1	1	22.56	22.66	22.59	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.63	26.66	25.49	27.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.71	26.71	25.55	27.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.72	26.76	25.60	27.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.05	26.74	25.82	27.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.75	26.73	25.59	27.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.99	26.68	25.85	27.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.77	26.67	25.57	27.5



n41 PC3_Ant 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				509202	518598	528000	25.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.77	25.03	23.51	25.7
100	PI/2 BPSK	1	137	25.17	24.13	25.19	
100	PI/2 BPSK	1	271	23.71	24.34	22.70	25.2
100	PI/2 BPSK	135	0	24.09	24.66	24.02	
100	PI/2 BPSK	135	69	25.01	24.67	24.99	25.2
100	PI/2 BPSK	135	138	24.10	23.86	24.04	
100	PI/2 BPSK	270	0	24.14	24.48	24.22	25.7
100	QPSK	1	1	23.70	25.02	23.52	
100	QPSK	1	137	25.01	24.10	25.15	24.7
100	QPSK	1	271	23.73	24.26	23.70	
100	QPSK	135	0	23.59	24.20	23.44	25.7
100	QPSK	135	69	25.02	24.76	24.90	
100	QPSK	135	138	23.57	23.51	24.00	24.7
100	QPSK	270	0	23.89	24.11	24.13	
100	16QAM	1	1	22.77	23.91	22.71	23.2
100	64QAM	1	1	21.23	22.21	21.20	
100	256QAM	1	1	19.32	20.58	19.21	21.2
Channel				508200	518598	528996	25.7
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.87	24.99	24.88	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	25.7
80	PI/2 BPSK	1	1	24.84	25.01	24.94	
Channel				505200	518598	531996	25.7
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.74	24.77	24.70	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	25.7
50	PI/2 BPSK	1	1	24.74	24.78	24.73	
Channel				503202	518598	534000	25.7
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.03	24.01	24.07	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	25.7
30	PI/2 BPSK	1	1	24.03	24.00	23.99	
Channel				501204	518598	535998	25.7
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.11	24.16	24.10	25.7



n77_Ant 7							
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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.50	24.23	24.30	25.7
100	PI/2 BPSK	1	137	24.57	24.32	24.52	
100	PI/2 BPSK	1	271	24.57	24.47	24.58	
100	PI/2 BPSK	135	0	23.97	23.74	23.90	25.2
100	PI/2 BPSK	135	69	24.52	24.25	24.37	25.7
100	PI/2 BPSK	135	138	24.00	23.82	24.00	25.2
100	PI/2 BPSK	270	0	23.99	23.82	23.92	
100	QPSK	1	1	24.40	24.32	24.42	25.7
100	QPSK	1	137	24.45	24.27	24.43	
100	QPSK	1	271	24.52	24.41	24.52	
100	QPSK	135	0	23.49	23.23	23.38	24.7
100	QPSK	135	69	24.50	24.31	24.44	25.7
100	QPSK	135	138	23.53	23.28	23.38	24.7
100	QPSK	270	0	23.48	23.26	23.36	
100	16QAM	1	1	23.65	23.39	23.58	24.7
100	64QAM	1	1	22.05	21.95	22.14	23.2
100	256QAM	1	1	20.01	19.82	20.01	21.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.46	24.22	24.26	25.7
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.49	24.20	24.26	25.7



n77_HPUE_Ant 7							
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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.24	25.10	25.03	26.5
100	PI/2 BPSK	1	137	25.34	25.16	25.08	
100	PI/2 BPSK	1	271	25.47	25.26	25.21	
100	PI/2 BPSK	135	0	24.74	24.58	24.48	26.0
100	PI/2 BPSK	135	69	25.30	25.11	25.03	26.5
100	PI/2 BPSK	135	138	24.80	24.64	24.60	26.0
100	PI/2 BPSK	270	0	24.76	24.56	24.51	
100	QPSK	1	1	25.29	25.08	25.00	26.5
100	QPSK	1	137	25.38	25.14	25.10	
100	QPSK	1	271	25.45	25.22	25.19	
100	QPSK	135	0	24.69	24.52	24.50	25.5
100	QPSK	135	69	25.25	25.05	24.98	26.5
100	QPSK	135	138	24.41	24.20	24.18	25.5
100	QPSK	270	0	24.27	24.08	24.04	
100	16QAM	1	1	24.49	24.29	24.27	25.5
100	64QAM	1	1	22.95	22.70	22.63	24.0
100	256QAM	1	1	20.84	20.65	20.55	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.22	25.08	25.01	26.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	25.23	25.07	25.02	26.5



n78_Ant 7							
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	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.98		25.0
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		24.00		
100	PI/2 BPSK	135	0		23.42		24.5
100	PI/2 BPSK	135	69		23.92		25.0
100	PI/2 BPSK	135	138		23.42		24.5
100	PI/2 BPSK	270	0		23.46		
100	QPSK	1	1		23.91		25.0
100	QPSK	1	137		23.91		
100	QPSK	1	271		23.95		
100	QPSK	135	0		22.84		24.0
100	QPSK	135	69		23.93		25.0
100	QPSK	135	138		22.92		24.0
100	QPSK	270	0		22.91		
100	16QAM	1	1		22.64		24.0
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.55		20.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.90	23.92	23.77	25.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.93	23.96	23.70	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.92	23.91	23.83	25.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.86	23.79	23.82	25.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.86	23.90	23.81	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.88	23.89	23.67	25.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.87	23.95	23.89	25.0



n78_HPUE_Ant 7							
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	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		25.42		26.5
100	PI/2 BPSK	1	137		25.45		
100	PI/2 BPSK	1	271		25.49		
100	PI/2 BPSK	135	0		24.90		26.0
100	PI/2 BPSK	135	69		25.42		26.5
100	PI/2 BPSK	135	138		24.93		26.0
100	PI/2 BPSK	270	0		24.92		
100	QPSK	1	1		25.44		26.5
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.43		
100	QPSK	135	0		24.35		25.5
100	QPSK	135	69		25.35		26.5
100	QPSK	135	138		24.45		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.19		25.5
100	64QAM	1	1		22.95		24.0
100	256QAM	1	1		21.18		22.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	25.38	25.40	25.36	26.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	25.44	25.38	25.41	26.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.37	25.43	25.41	26.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	25.42	25.39	25.26	26.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	25.43	25.44	25.47	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.33	25.38	25.36	26.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	25.32	25.32	25.46	26.5



n41_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.76	24.70	24.68	25.5
100	PI/2 BPSK	1	137	24.71	24.68	24.68	
100	PI/2 BPSK	1	271	24.64	24.80	24.78	
100	PI/2 BPSK	135	0	24.74	24.58	24.55	25.0
100	PI/2 BPSK	135	69	24.71	24.60	24.54	25.5
100	PI/2 BPSK	135	138	24.63	24.60	24.55	25.0
100	PI/2 BPSK	270	0	24.70	24.64	24.61	
100	QPSK	1	1	24.76	24.67	24.58	
100	QPSK	1	137	24.71	24.66	24.57	25.5
100	QPSK	1	271	24.64	24.67	24.59	
100	QPSK	135	0	24.76	24.59	24.58	
100	QPSK	135	69	24.70	24.55	24.50	25.5
100	QPSK	135	138	24.64	24.57	24.57	25.5
100	QPSK	270	0	24.71	24.66	24.60	
100	16QAM	1	1	24.65	24.59	24.58	
100	64QAM	1	1	24.48	24.49	24.45	25.5
100	256QAM	1	1	22.36	22.33	22.23	22.5
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.66	24.61	24.46	25.5
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.66	24.61	24.53	25.5
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.72	24.69	24.60	25.5
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.63	24.60	24.44	25.5
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.68	24.69	24.61	25.5
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.56	24.54	24.36	25.5
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.69	24.60	24.63	25.5





n77_Ant 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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.84	23.76	23.53	25.5
100	PI/2 BPSK	1	137	23.94	23.65	23.60	
100	PI/2 BPSK	1	271	23.91	23.72	23.50	
100	PI/2 BPSK	135	0	23.30	23.09	23.00	25.0
100	PI/2 BPSK	135	69	23.85	23.55	23.56	25.5
100	PI/2 BPSK	135	138	23.38	23.16	23.01	25.0
100	PI/2 BPSK	270	0	23.37	23.07	23.04	
100	QPSK	1	1	23.79	23.57	23.36	25.5
100	QPSK	1	137	23.89	23.56	23.32	
100	QPSK	1	271	23.88	23.68	23.49	
100	QPSK	135	0	23.28	22.59	22.36	24.5
100	QPSK	135	69	23.83	23.55	23.49	25.5
100	QPSK	135	138	23.35	22.62	22.51	24.5
100	QPSK	270	0	23.35	22.64	22.56	
100	16QAM	1	1	22.54	22.91	22.72	24.5
100	64QAM	1	1	21.32	21.25	21.06	23.0
100	256QAM	1	1	19.55	19.18	18.99	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.02	23.80	25.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.12	24.03	23.83	25.5



n77_HPUE_Ant 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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.72	24.64	24.43	26.0
100	PI/2 BPSK	1	137	24.80	24.53	24.49	
100	PI/2 BPSK	1	271	24.84	24.59	24.40	
100	PI/2 BPSK	135	0	24.23	24.03	23.92	25.5
100	PI/2 BPSK	135	69	24.77	24.48	24.30	26.0
100	PI/2 BPSK	135	138	24.28	24.07	24.05	25.5
100	PI/2 BPSK	270	0	24.23	23.97	23.93	
100	QPSK	1	1	24.67	24.47	24.30	
100	QPSK	1	137	24.75	24.51	24.37	26.0
100	QPSK	1	271	24.77	24.56	24.40	
100	QPSK	135	0	23.75	23.48	23.46	
100	QPSK	135	69	24.74	24.50	24.43	26.0
100	QPSK	135	138	23.79	23.51	23.36	25.0
100	QPSK	270	0	23.79	23.45	23.38	
100	16QAM	1	1	23.89	23.70	23.67	
100	64QAM	1	1	22.32	22.16	22.03	23.5
100	256QAM	1	1	20.27	20.06	19.90	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.72	24.63	24.42	26.0
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.70	24.60	24.41	26.0



n78_Ant 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				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.54		25.5
100	PI/2 BPSK	1	137		23.50		
100	PI/2 BPSK	1	271		23.51		
100	PI/2 BPSK	135	0		23.07		25.0
100	PI/2 BPSK	135	69		23.50		25.5
100	PI/2 BPSK	135	138		23.14		25.0
100	PI/2 BPSK	270	0		23.08		
100	QPSK	1	1		23.50		
100	QPSK	1	137		23.51		25.5
100	QPSK	1	271		23.50		
100	QPSK	135	0		22.56		
100	QPSK	135	69		23.54		25.5
100	QPSK	135	138		22.62		24.5
100	QPSK	270	0		22.56		
100	16QAM	1	1		22.39		
100	64QAM	1	1		21.13		23.0
100	256QAM	1	1		19.34		21.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.42	23.50	23.49	25.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.59	23.63	23.57	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.63	23.60	23.57	25.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.62	23.62	23.63	25.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.55	23.63	23.59	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.44	23.59	23.50	25.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.53	23.50	23.49	25.5



n78_HPUE_Ant 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				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		24.91		26.0
100	PI/2 BPSK	1	137		24.90		
100	PI/2 BPSK	1	271		24.96		
100	PI/2 BPSK	135	0		24.37		25.5
100	PI/2 BPSK	135	69		24.87		26.0
100	PI/2 BPSK	135	138		24.40		25.5
100	PI/2 BPSK	270	0		24.40		
100	QPSK	1	1		24.93		
100	QPSK	1	137		24.90		26.0
100	QPSK	1	271		24.89		
100	QPSK	135	0		23.89		
100	QPSK	135	69		24.87		26.0
100	QPSK	135	138		23.93		25.0
100	QPSK	270	0		23.86		
100	16QAM	1	1		23.64		
100	64QAM	1	1		22.47		23.5
100	256QAM	1	1		20.68		21.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	24.90	24.91	24.89	26.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	24.88	24.88	24.90	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.86	24.86	24.82	26.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	24.90	24.90	24.86	26.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	24.81	24.90	24.85	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.86	24.86	24.79	26.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	24.83	24.91	24.87	26.0



n41_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.64	24.69	24.59	25.7
100	PI/2 BPSK	1	137	24.76	24.70	24.66	
100	PI/2 BPSK	1	271	24.67	24.61	24.56	
100	PI/2 BPSK	135	0	24.15	24.16	24.00	25.2
100	PI/2 BPSK	135	69	24.65	24.63	24.58	25.7
100	PI/2 BPSK	135	138	24.25	24.10	24.02	25.2
100	PI/2 BPSK	270	0	24.20	24.12	24.09	
100	QPSK	1	1	24.72	24.63	24.64	25.7
100	QPSK	1	137	24.76	24.56	24.64	
100	QPSK	1	271	24.67	24.59	24.57	
100	QPSK	135	0	23.67	23.66	23.49	25.7
100	QPSK	135	69	24.63	24.54	24.57	
100	QPSK	135	138	23.65	23.51	23.55	
100	QPSK	270	0	23.69	23.62	23.55	24.7
100	16QAM	1	1	23.79	23.88	23.74	24.7
100	64QAM	1	1	22.29	22.36	22.28	23.2
100	256QAM	1	1	20.38	20.39	20.28	21.2
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.60	24.53	24.49	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.64	24.61	24.59	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.58	24.59	24.60	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.60	24.64	24.52	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.61	24.55	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.54	24.51	24.55	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.39	24.51	24.44	25.7



n41_HPUE PC2_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.07	26.76	25.88	27.5
100	PI/2 BPSK	1	137	26.03	26.04	25.78	
100	PI/2 BPSK	1	271	26.50	26.59	26.58	
100	PI/2 BPSK	135	0	26.08	26.10	26.08	27.0
100	PI/2 BPSK	135	69	26.15	26.34	26.20	27.5
100	PI/2 BPSK	135	138	26.33	26.33	23.30	27.0
100	PI/2 BPSK	270	0	26.27	26.33	26.26	
100	QPSK	1	1	26.65	26.75	26.66	27.5
100	QPSK	1	137	26.18	26.24	26.18	
100	QPSK	1	271	26.53	26.61	26.60	
100	QPSK	135	0	25.91	25.92	25.86	26.5
100	QPSK	135	69	26.12	26.12	26.04	27.5
100	QPSK	135	138	25.91	25.96	25.91	26.5
100	QPSK	270	0	25.84	25.92	25.84	
100	16QAM	1	1	26.15	26.19	26.19	26.5
100	64QAM	1	1	24.66	24.66	24.64	25.0
100	256QAM	1	1	22.56	22.66	22.59	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.63	26.66	25.49	27.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.71	26.71	25.55	27.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.72	26.76	25.60	27.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.05	26.74	25.82	27.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.75	26.73	25.59	27.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.99	26.68	25.85	27.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.77	26.67	25.57	27.5



n41 PC3_Ant 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				509202	518598	528000	25.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.77	25.03	23.51	25.7
100	PI/2 BPSK	1	137	25.17	24.13	25.19	
100	PI/2 BPSK	1	271	23.71	24.34	22.70	25.2
100	PI/2 BPSK	135	0	24.09	24.66	24.02	
100	PI/2 BPSK	135	69	25.01	24.67	24.99	25.2
100	PI/2 BPSK	135	138	24.10	23.86	24.04	
100	PI/2 BPSK	270	0	24.14	24.48	24.22	25.7
100	QPSK	1	1	23.70	25.02	23.52	
100	QPSK	1	137	25.01	24.10	25.15	24.7
100	QPSK	1	271	23.73	24.26	23.70	
100	QPSK	135	0	23.59	24.20	23.44	25.7
100	QPSK	135	69	25.02	24.76	24.90	
100	QPSK	135	138	23.57	23.51	24.00	24.7
100	QPSK	270	0	23.89	24.11	24.13	
100	16QAM	1	1	22.77	23.91	22.71	23.2
100	64QAM	1	1	21.23	22.21	21.20	
100	256QAM	1	1	19.32	20.58	19.21	21.2
Channel				508200	518598	528996	25.7
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.87	24.99	24.88	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	25.7
80	PI/2 BPSK	1	1	24.84	25.01	24.94	
Channel				505200	518598	531996	25.7
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.74	24.77	24.70	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	25.7
50	PI/2 BPSK	1	1	24.74	24.78	24.73	
Channel				503202	518598	534000	25.7
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.03	24.01	24.07	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	25.7
30	PI/2 BPSK	1	1	24.03	24.00	23.99	
Channel				501204	518598	535998	25.7
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.11	24.16	24.10	25.7



n77_Ant 7							
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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.50	24.23	24.30	25.7
100	PI/2 BPSK	1	137	24.57	24.32	24.52	
100	PI/2 BPSK	1	271	24.57	24.47	24.58	
100	PI/2 BPSK	135	0	23.97	23.74	23.90	25.2
100	PI/2 BPSK	135	69	24.52	24.25	24.37	25.7
100	PI/2 BPSK	135	138	24.00	23.82	24.00	25.2
100	PI/2 BPSK	270	0	23.99	23.82	23.92	
100	QPSK	1	1	24.40	24.32	24.42	25.7
100	QPSK	1	137	24.45	24.27	24.43	
100	QPSK	1	271	24.52	24.41	24.52	
100	QPSK	135	0	23.49	23.23	23.38	24.7
100	QPSK	135	69	24.50	24.31	24.44	25.7
100	QPSK	135	138	23.53	23.28	23.38	24.7
100	QPSK	270	0	23.48	23.26	23.36	
100	16QAM	1	1	23.65	23.39	23.58	24.7
100	64QAM	1	1	22.05	21.95	22.14	23.2
100	256QAM	1	1	20.01	19.82	20.01	21.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.46	24.22	24.26	25.7
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.49	24.20	24.26	25.7





n77_HPUE_Ant 7							
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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.24	25.10	25.03	26.5
100	PI/2 BPSK	1	137	25.34	25.16	25.08	
100	PI/2 BPSK	1	271	25.47	25.26	25.21	
100	PI/2 BPSK	135	0	24.74	24.58	24.48	26.0
100	PI/2 BPSK	135	69	25.30	25.11	25.03	26.5
100	PI/2 BPSK	135	138	24.80	24.64	24.60	26.0
100	PI/2 BPSK	270	0	24.76	24.56	24.51	
100	QPSK	1	1	25.29	25.08	25.00	26.5
100	QPSK	1	137	25.38	25.14	25.10	
100	QPSK	1	271	25.45	25.22	25.19	
100	QPSK	135	0	24.69	24.52	24.50	25.5
100	QPSK	135	69	25.25	25.05	24.98	26.5
100	QPSK	135	138	24.41	24.20	24.18	25.5
100	QPSK	270	0	24.27	24.08	24.04	
100	16QAM	1	1	24.49	24.29	24.27	25.5
100	64QAM	1	1	22.95	22.70	22.63	24.0
100	256QAM	1	1	20.84	20.65	20.55	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.22	25.08	25.01	26.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	25.23	25.07	25.02	26.5



n78_Ant 7							
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	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.98		25.0
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		24.00		
100	PI/2 BPSK	135	0		23.42		24.5
100	PI/2 BPSK	135	69		23.92		25.0
100	PI/2 BPSK	135	138		23.42		24.5
100	PI/2 BPSK	270	0		23.46		
100	QPSK	1	1		23.91		25.0
100	QPSK	1	137		23.91		
100	QPSK	1	271		23.95		
100	QPSK	135	0		22.84		24.0
100	QPSK	135	69		23.93		25.0
100	QPSK	135	138		22.92		24.0
100	QPSK	270	0		22.91		
100	16QAM	1	1		22.64		24.0
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.55		20.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.90	23.92	23.77	25.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.93	23.96	23.70	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.92	23.91	23.83	25.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.86	23.79	23.82	25.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.86	23.90	23.81	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.88	23.89	23.67	25.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.87	23.95	23.89	25.0



n78_HPUE_Ant 7							
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	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		25.42		26.5
100	PI/2 BPSK	1	137		25.45		
100	PI/2 BPSK	1	271		25.49		
100	PI/2 BPSK	135	0		24.90		26.0
100	PI/2 BPSK	135	69		25.42		26.5
100	PI/2 BPSK	135	138		24.93		26.0
100	PI/2 BPSK	270	0		24.92		
100	QPSK	1	1		25.44		26.5
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.43		
100	QPSK	135	0		24.35		25.5
100	QPSK	135	69		25.35		26.5
100	QPSK	135	138		24.45		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.19		25.5
100	64QAM	1	1		22.95		24.0
100	256QAM	1	1		21.18		22.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	25.38	25.40	25.36	26.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	25.44	25.38	25.41	26.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.37	25.43	25.41	26.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	25.42	25.39	25.26	26.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	25.43	25.44	25.47	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.33	25.38	25.36	26.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	25.32	25.32	25.46	26.5



n41_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	25.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.76	24.70	24.68	
100	PI/2 BPSK	1	137	24.71	24.68	24.68	
100	PI/2 BPSK	1	271	24.64	24.80	24.78	
100	PI/2 BPSK	135	0	24.74	24.58	24.55	
100	PI/2 BPSK	135	69	24.71	24.60	24.54	
100	PI/2 BPSK	135	138	24.63	24.60	24.55	
100	PI/2 BPSK	270	0	24.70	24.64	24.61	
100	QPSK	1	1	24.76	24.67	24.58	
100	QPSK	1	137	24.71	24.66	24.57	
100	QPSK	1	271	24.64	24.67	24.59	
100	QPSK	135	0	24.76	24.59	24.58	
100	QPSK	135	69	24.70	24.55	24.50	
100	QPSK	135	138	24.64	24.57	24.57	
100	QPSK	270	0	24.71	24.66	24.60	
100	16QAM	1	1	24.65	24.59	24.58	
100	64QAM	1	1	24.48	24.49	24.45	
100	256QAM	1	1	22.36	22.33	22.23	
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.66	24.61	24.46	25.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.66	24.61	24.53	25.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.72	24.69	24.60	25.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.63	24.60	24.44	25.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.68	24.69	24.61	25.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.56	24.54	24.36	25.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.69	24.60	24.63	25.5



n77_Ant 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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.84	23.76	23.53	25.5
100	PI/2 BPSK	1	137	23.94	23.65	23.60	
100	PI/2 BPSK	1	271	23.91	23.72	23.50	
100	PI/2 BPSK	135	0	23.30	23.09	23.00	25.0
100	PI/2 BPSK	135	69	23.85	23.55	23.56	25.5
100	PI/2 BPSK	135	138	23.38	23.16	23.01	25.0
100	PI/2 BPSK	270	0	23.37	23.07	23.04	
100	QPSK	1	1	23.79	23.57	23.36	25.5
100	QPSK	1	137	23.89	23.56	23.32	
100	QPSK	1	271	23.88	23.68	23.49	
100	QPSK	135	0	23.28	22.59	22.36	24.5
100	QPSK	135	69	23.83	23.55	23.49	25.5
100	QPSK	135	138	23.35	22.62	22.51	24.5
100	QPSK	270	0	23.35	22.64	22.56	
100	16QAM	1	1	22.54	22.91	22.72	24.5
100	64QAM	1	1	21.32	21.25	21.06	23.0
100	256QAM	1	1	19.55	19.18	18.99	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.02	23.80	25.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.12	24.03	23.83	25.5



n77_HPUE_Ant 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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.72	24.64	24.43	26.0
100	PI/2 BPSK	1	137	24.80	24.53	24.49	
100	PI/2 BPSK	1	271	24.84	24.59	24.40	
100	PI/2 BPSK	135	0	24.23	24.03	23.92	25.5
100	PI/2 BPSK	135	69	24.77	24.48	24.30	26.0
100	PI/2 BPSK	135	138	24.28	24.07	24.05	25.5
100	PI/2 BPSK	270	0	24.23	23.97	23.93	
100	QPSK	1	1	24.67	24.47	24.30	
100	QPSK	1	137	24.75	24.51	24.37	26.0
100	QPSK	1	271	24.77	24.56	24.40	
100	QPSK	135	0	23.75	23.48	23.46	
100	QPSK	135	69	24.74	24.50	24.43	26.0
100	QPSK	135	138	23.79	23.51	23.36	25.0
100	QPSK	270	0	23.79	23.45	23.38	
100	16QAM	1	1	23.89	23.70	23.67	
100	64QAM	1	1	22.32	22.16	22.03	23.5
100	256QAM	1	1	20.27	20.06	19.90	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.72	24.63	24.42	26.0
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.70	24.60	24.41	26.0



n78_Ant 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				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.54		25.5
100	PI/2 BPSK	1	137		23.50		
100	PI/2 BPSK	1	271		23.51		
100	PI/2 BPSK	135	0		23.07		25.0
100	PI/2 BPSK	135	69		23.50		25.5
100	PI/2 BPSK	135	138		23.14		25.0
100	PI/2 BPSK	270	0		23.08		
100	QPSK	1	1		23.50		
100	QPSK	1	137		23.51		25.5
100	QPSK	1	271		23.50		
100	QPSK	135	0		22.56		
100	QPSK	135	69		23.54		25.5
100	QPSK	135	138		22.62		24.5
100	QPSK	270	0		22.56		
100	16QAM	1	1		22.39		
100	64QAM	1	1		21.13		23.0
100	256QAM	1	1		19.34		21.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.42	23.50	23.49	25.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.59	23.63	23.57	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.63	23.60	23.57	25.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.62	23.62	23.63	25.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.55	23.63	23.59	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.44	23.59	23.50	25.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.53	23.50	23.49	25.5



n78_HPUE_Ant 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				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		24.91		26.0
100	PI/2 BPSK	1	137		24.90		
100	PI/2 BPSK	1	271		24.96		
100	PI/2 BPSK	135	0		24.37		25.5
100	PI/2 BPSK	135	69		24.87		26.0
100	PI/2 BPSK	135	138		24.40		25.5
100	PI/2 BPSK	270	0		24.40		
100	QPSK	1	1		24.93		26.0
100	QPSK	1	137		24.90		
100	QPSK	1	271		24.89		
100	QPSK	135	0		23.89		25.0
100	QPSK	135	69		24.87		26.0
100	QPSK	135	138		23.93		25.0
100	QPSK	270	0		23.86		
100	16QAM	1	1		23.64		25.0
100	64QAM	1	1		22.47		23.5
100	256QAM	1	1		20.68		21.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	24.90	24.91	24.89	26.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	24.88	24.88	24.90	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.86	24.86	24.82	26.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	24.90	24.90	24.86	26.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	24.81	24.90	24.85	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.86	24.86	24.79	26.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	24.83	24.91	24.87	26.0





n41_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.64	24.69	24.59	25.7
100	PI/2 BPSK	1	137	24.76	24.70	24.66	
100	PI/2 BPSK	1	271	24.67	24.61	24.56	
100	PI/2 BPSK	135	0	24.15	24.16	24.00	25.2
100	PI/2 BPSK	135	69	24.65	24.63	24.58	25.7
100	PI/2 BPSK	135	138	24.25	24.10	24.02	25.2
100	PI/2 BPSK	270	0	24.20	24.12	24.09	
100	QPSK	1	1	24.72	24.63	24.64	25.7
100	QPSK	1	137	24.76	24.56	24.64	
100	QPSK	1	271	24.67	24.59	24.57	
100	QPSK	135	0	23.67	23.66	23.49	25.7
100	QPSK	135	69	24.63	24.54	24.57	
100	QPSK	135	138	23.65	23.51	23.55	
100	QPSK	270	0	23.69	23.62	23.55	24.7
100	16QAM	1	1	23.79	23.88	23.74	24.7
100	64QAM	1	1	22.29	22.36	22.28	23.2
100	256QAM	1	1	20.38	20.39	20.28	21.2
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.60	24.53	24.49	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.64	24.61	24.59	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.58	24.59	24.60	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.60	24.64	24.52	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.61	24.55	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.54	24.51	24.55	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.39	24.51	24.44	25.7



n41_HPUE PC2_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.07	26.76	25.88	27.5
100	PI/2 BPSK	1	137	26.03	26.04	25.78	
100	PI/2 BPSK	1	271	26.50	26.59	26.58	
100	PI/2 BPSK	135	0	26.08	26.10	26.08	27.0
100	PI/2 BPSK	135	69	26.15	26.34	26.20	27.5
100	PI/2 BPSK	135	138	26.33	26.33	23.30	27.0
100	PI/2 BPSK	270	0	26.27	26.33	26.26	
100	QPSK	1	1	26.65	26.75	26.66	27.5
100	QPSK	1	137	26.18	26.24	26.18	
100	QPSK	1	271	26.53	26.61	26.60	
100	QPSK	135	0	25.91	25.92	25.86	26.5
100	QPSK	135	69	26.12	26.12	26.04	27.5
100	QPSK	135	138	25.91	25.96	25.91	26.5
100	QPSK	270	0	25.84	25.92	25.84	
100	16QAM	1	1	26.15	26.19	26.19	26.5
100	64QAM	1	1	24.66	24.66	24.64	25.0
100	256QAM	1	1	22.56	22.66	22.59	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.63	26.66	25.49	27.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.71	26.71	25.55	27.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.72	26.76	25.60	27.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.05	26.74	25.82	27.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.75	26.73	25.59	27.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.99	26.68	25.85	27.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.77	26.67	25.57	27.5



n41 PC3_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.77	25.03	23.51	25.7
100	PI/2 BPSK	1	137	25.17	24.13	25.19	
100	PI/2 BPSK	1	271	23.71	24.34	22.70	
100	PI/2 BPSK	135	0	24.09	24.66	24.02	25.2
100	PI/2 BPSK	135	69	25.01	24.67	24.99	25.7
100	PI/2 BPSK	135	138	24.10	23.86	24.04	25.2
100	PI/2 BPSK	270	0	24.14	24.48	24.22	
100	QPSK	1	1	23.70	25.02	23.52	25.7
100	QPSK	1	137	25.01	24.10	25.15	
100	QPSK	1	271	23.73	24.26	23.70	
100	QPSK	135	0	23.59	24.20	23.44	24.7
100	QPSK	135	69	25.02	24.76	24.90	25.7
100	QPSK	135	138	23.57	23.51	24.00	24.7
100	QPSK	270	0	23.89	24.11	24.13	
100	16QAM	1	1	22.77	23.91	22.71	24.7
100	64QAM	1	1	21.23	22.21	21.20	23.2
100	256QAM	1	1	19.32	20.58	19.21	21.2
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.87	24.99	24.88	25.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.84	25.01	24.94	25.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.74	24.77	24.70	25.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.74	24.78	24.73	25.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.03	24.01	24.07	25.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.03	24.00	23.99	25.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.11	24.16	24.10	25.7



n77_Ant 7							
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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.50	24.23	24.30	25.7
100	PI/2 BPSK	1	137	24.57	24.32	24.52	
100	PI/2 BPSK	1	271	24.57	24.47	24.58	
100	PI/2 BPSK	135	0	23.97	23.74	23.90	25.2
100	PI/2 BPSK	135	69	24.52	24.25	24.37	25.7
100	PI/2 BPSK	135	138	24.00	23.82	24.00	25.2
100	PI/2 BPSK	270	0	23.99	23.82	23.92	
100	QPSK	1	1	24.40	24.32	24.42	25.7
100	QPSK	1	137	24.45	24.27	24.43	
100	QPSK	1	271	24.52	24.41	24.52	
100	QPSK	135	0	23.49	23.23	23.38	24.7
100	QPSK	135	69	24.50	24.31	24.44	25.7
100	QPSK	135	138	23.53	23.28	23.38	24.7
100	QPSK	270	0	23.48	23.26	23.36	
100	16QAM	1	1	23.65	23.39	23.58	24.7
100	64QAM	1	1	22.05	21.95	22.14	23.2
100	256QAM	1	1	20.01	19.82	20.01	21.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.46	24.22	24.26	25.7
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.49	24.20	24.26	25.7



n77_HPUE_Ant 7							
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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.24	25.10	25.03	26.5
100	PI/2 BPSK	1	137	25.34	25.16	25.08	
100	PI/2 BPSK	1	271	25.47	25.26	25.21	
100	PI/2 BPSK	135	0	24.74	24.58	24.48	26.0
100	PI/2 BPSK	135	69	25.30	25.11	25.03	26.5
100	PI/2 BPSK	135	138	24.80	24.64	24.60	26.0
100	PI/2 BPSK	270	0	24.76	24.56	24.51	
100	QPSK	1	1	25.29	25.08	25.00	
100	QPSK	1	137	25.38	25.14	25.10	26.5
100	QPSK	1	271	25.45	25.22	25.19	
100	QPSK	135	0	24.69	24.52	24.50	
100	QPSK	135	69	25.25	25.05	24.98	26.5
100	QPSK	135	138	24.41	24.20	24.18	25.5
100	QPSK	270	0	24.27	24.08	24.04	
100	16QAM	1	1	24.49	24.29	24.27	
100	64QAM	1	1	22.95	22.70	22.63	24.0
100	256QAM	1	1	20.84	20.65	20.55	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.22	25.08	25.01	
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	25.23	25.07	25.02	



n78_Ant 7							
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	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.98		25.0
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		24.00		
100	PI/2 BPSK	135	0		23.42		24.5
100	PI/2 BPSK	135	69		23.92		25.0
100	PI/2 BPSK	135	138		23.42		24.5
100	PI/2 BPSK	270	0		23.46		
100	QPSK	1	1		23.91		25.0
100	QPSK	1	137		23.91		
100	QPSK	1	271		23.95		
100	QPSK	135	0		22.84		24.0
100	QPSK	135	69		23.93		25.0
100	QPSK	135	138		22.92		24.0
100	QPSK	270	0		22.91		
100	16QAM	1	1		22.64		24.0
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.55		20.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.90	23.92	23.77	25.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.93	23.96	23.70	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.92	23.91	23.83	25.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.86	23.79	23.82	25.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.86	23.90	23.81	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.88	23.89	23.67	25.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.87	23.95	23.89	25.0



n78_HPUE_Ant 7							
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	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		25.42		26.5
100	PI/2 BPSK	1	137		25.45		
100	PI/2 BPSK	1	271		25.49		
100	PI/2 BPSK	135	0		24.90		26.0
100	PI/2 BPSK	135	69		25.42		26.5
100	PI/2 BPSK	135	138		24.93		26.0
100	PI/2 BPSK	270	0		24.92		
100	QPSK	1	1		25.44		26.5
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.43		
100	QPSK	135	0		24.35		25.5
100	QPSK	135	69		25.35		26.5
100	QPSK	135	138		24.45		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.19		25.5
100	64QAM	1	1		22.95		24.0
100	256QAM	1	1		21.18		22.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	25.38	25.40	25.36	26.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	25.44	25.38	25.41	26.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.37	25.43	25.41	26.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	25.42	25.39	25.26	26.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	25.43	25.44	25.47	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.33	25.38	25.36	26.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	25.32	25.32	25.46	26.5



n41_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.76	24.70	24.68	25.5
100	PI/2 BPSK	1	137	24.71	24.68	24.68	
100	PI/2 BPSK	1	271	24.64	24.80	24.78	
100	PI/2 BPSK	135	0	24.74	24.58	24.55	25.0
100	PI/2 BPSK	135	69	24.71	24.60	24.54	25.5
100	PI/2 BPSK	135	138	24.63	24.60	24.55	25.0
100	PI/2 BPSK	270	0	24.70	24.64	24.61	
100	QPSK	1	1	24.76	24.67	24.58	25.5
100	QPSK	1	137	24.71	24.66	24.57	
100	QPSK	1	271	24.64	24.67	24.59	
100	QPSK	135	0	24.76	24.59	24.58	25.5
100	QPSK	135	69	24.70	24.55	24.50	25.5
100	QPSK	135	138	24.64	24.57	24.57	25.5
100	QPSK	270	0	24.71	24.66	24.60	
100	16QAM	1	1	24.65	24.59	24.58	25.5
100	64QAM	1	1	24.48	24.49	24.45	25.5
100	256QAM	1	1	22.36	22.33	22.23	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.66	24.61	24.46	25.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.66	24.61	24.53	25.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.72	24.69	24.60	25.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.63	24.60	24.44	25.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.68	24.69	24.61	25.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.56	24.54	24.36	25.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.69	24.60	24.63	25.5





n77_Ant 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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.84	23.76	23.53	25.5
100	PI/2 BPSK	1	137	23.94	23.65	23.60	
100	PI/2 BPSK	1	271	23.91	23.72	23.50	
100	PI/2 BPSK	135	0	23.30	23.09	23.00	25.0
100	PI/2 BPSK	135	69	23.85	23.55	23.56	25.5
100	PI/2 BPSK	135	138	23.38	23.16	23.01	25.0
100	PI/2 BPSK	270	0	23.37	23.07	23.04	
100	QPSK	1	1	23.79	23.57	23.36	25.5
100	QPSK	1	137	23.89	23.56	23.32	
100	QPSK	1	271	23.88	23.68	23.49	
100	QPSK	135	0	23.28	22.59	22.36	24.5
100	QPSK	135	69	23.83	23.55	23.49	25.5
100	QPSK	135	138	23.35	22.62	22.51	24.5
100	QPSK	270	0	23.35	22.64	22.56	
100	16QAM	1	1	22.54	22.91	22.72	24.5
100	64QAM	1	1	21.32	21.25	21.06	23.0
100	256QAM	1	1	19.55	19.18	18.99	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.02	23.80	25.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.12	24.03	23.83	25.5



n77_HPUE_Ant 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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.72	24.64	24.43	26.0
100	PI/2 BPSK	1	137	24.80	24.53	24.49	
100	PI/2 BPSK	1	271	24.84	24.59	24.40	
100	PI/2 BPSK	135	0	24.23	24.03	23.92	25.5
100	PI/2 BPSK	135	69	24.77	24.48	24.30	26.0
100	PI/2 BPSK	135	138	24.28	24.07	24.05	25.5
100	PI/2 BPSK	270	0	24.23	23.97	23.93	
100	QPSK	1	1	24.67	24.47	24.30	
100	QPSK	1	137	24.75	24.51	24.37	26.0
100	QPSK	1	271	24.77	24.56	24.40	
100	QPSK	135	0	23.75	23.48	23.46	
100	QPSK	135	69	24.74	24.50	24.43	26.0
100	QPSK	135	138	23.79	23.51	23.36	25.0
100	QPSK	270	0	23.79	23.45	23.38	
100	16QAM	1	1	23.89	23.70	23.67	
100	64QAM	1	1	22.32	22.16	22.03	23.5
100	256QAM	1	1	20.27	20.06	19.90	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.72	24.63	24.42	26.0
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.70	24.60	24.41	26.0



n78_Ant 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				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.54		25.5
100	PI/2 BPSK	1	137		23.50		
100	PI/2 BPSK	1	271		23.51		
100	PI/2 BPSK	135	0		23.07		25.0
100	PI/2 BPSK	135	69		23.50		25.5
100	PI/2 BPSK	135	138		23.14		25.0
100	PI/2 BPSK	270	0		23.08		
100	QPSK	1	1		23.50		
100	QPSK	1	137		23.51		25.5
100	QPSK	1	271		23.50		
100	QPSK	135	0		22.56		
100	QPSK	135	69		23.54		25.5
100	QPSK	135	138		22.62		24.5
100	QPSK	270	0		22.56		
100	16QAM	1	1		22.39		
100	64QAM	1	1		21.13		23.0
100	256QAM	1	1		19.34		21.0
Channel				649668	650000	650334	
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.42	23.50	23.49	25.5
Channel				649334	650000	650668	
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.59	23.63	23.57	25.5
Channel				649000	650000	651000	
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.63	23.60	23.57	25.5
Channel				648668	650000	651334	
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.62	23.62	23.63	25.5
Channel				648334	650000	651668	
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.55	23.63	23.59	25.5
Channel				648000	650000	652000	
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.44	23.59	23.50	25.5
Channel				647334	650000	652668	
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.53	23.50	23.49	25.5



n78_HPUE_Ant 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				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		24.91		26.0
100	PI/2 BPSK	1	137		24.90		
100	PI/2 BPSK	1	271		24.96		
100	PI/2 BPSK	135	0		24.37		25.5
100	PI/2 BPSK	135	69		24.87		26.0
100	PI/2 BPSK	135	138		24.40		25.5
100	PI/2 BPSK	270	0		24.40		
100	QPSK	1	1		24.93		26.0
100	QPSK	1	137		24.90		
100	QPSK	1	271		24.89		
100	QPSK	135	0		23.89		25.0
100	QPSK	135	69		24.87		26.0
100	QPSK	135	138		23.93		25.0
100	QPSK	270	0		23.86		
100	16QAM	1	1		23.64		25.0
100	64QAM	1	1		22.47		23.5
100	256QAM	1	1		20.68		21.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	24.90	24.91	24.89	26.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	24.88	24.88	24.90	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.86	24.86	24.82	26.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	24.90	24.90	24.86	26.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	24.81	24.90	24.85	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.86	24.86	24.79	26.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	24.83	24.91	24.87	26.0



n41_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.64	24.69	24.59	25.7
100	PI/2 BPSK	1	137	24.76	24.70	24.66	
100	PI/2 BPSK	1	271	24.67	24.61	24.56	
100	PI/2 BPSK	135	0	24.15	24.16	24.00	25.2
100	PI/2 BPSK	135	69	24.65	24.63	24.58	25.7
100	PI/2 BPSK	135	138	24.25	24.10	24.02	25.2
100	PI/2 BPSK	270	0	24.20	24.12	24.09	
100	QPSK	1	1	24.72	24.63	24.64	25.7
100	QPSK	1	137	24.76	24.56	24.64	
100	QPSK	1	271	24.67	24.59	24.57	
100	QPSK	135	0	23.67	23.66	23.49	25.7
100	QPSK	135	69	24.63	24.54	24.57	
100	QPSK	135	138	23.65	23.51	23.55	
100	QPSK	270	0	23.69	23.62	23.55	24.7
100	16QAM	1	1	23.79	23.88	23.74	24.7
100	64QAM	1	1	22.29	22.36	22.28	23.2
100	256QAM	1	1	20.38	20.39	20.28	21.2
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.60	24.53	24.49	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.64	24.61	24.59	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.58	24.59	24.60	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.60	24.64	24.52	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.61	24.55	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.54	24.51	24.55	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.39	24.51	24.44	25.7



n41_HPUE PC2_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.85	25.38	25.24	26.8
100	PI/2 BPSK	1	137	25.37	25.31	25.17	
100	PI/2 BPSK	1	271	25.37	25.21	25.07	
100	PI/2 BPSK	135	0	25.09	25.23	25.12	26.8
100	PI/2 BPSK	135	69	25.32	25.45	25.06	26.8
100	PI/2 BPSK	135	138	25.30	25.18	25.11	26.8
100	PI/2 BPSK	270	0	25.27	25.40	25.17	
100	QPSK	1	1	24.85	25.32	25.26	
100	QPSK	1	137	25.37	25.29	25.13	26.8
100	QPSK	1	271	25.35	25.20	25.08	
100	QPSK	135	0	25.09	25.20	25.13	
100	QPSK	135	69	25.33	25.22	25.10	26.8
100	QPSK	135	138	25.31	25.17	25.08	26.5
100	QPSK	270	0	25.22	25.29	25.11	
100	16QAM	1	1	24.82	25.46	24.80	
100	64QAM	1	1	23.33	24.46	23.08	25.0
100	256QAM	1	1	21.57	22.65	21.94	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.71	25.25	25.17	26.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.79	25.34	25.23	26.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.84	25.37	25.14	26.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.83	25.37	25.20	26.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.79	25.28	25.18	26.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.77	25.28	25.15	26.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.76	25.28	25.17	26.8



n41 PC3_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.77	25.03	23.51	25.7
100	PI/2 BPSK	1	137	25.17	24.13	25.19	
100	PI/2 BPSK	1	271	23.71	24.34	22.70	
100	PI/2 BPSK	135	0	24.09	24.66	24.02	25.2
100	PI/2 BPSK	135	69	25.01	24.67	24.99	25.7
100	PI/2 BPSK	135	138	24.10	23.86	24.04	25.2
100	PI/2 BPSK	270	0	24.14	24.48	24.22	
100	QPSK	1	1	23.70	25.02	23.52	25.7
100	QPSK	1	137	25.01	24.10	25.15	
100	QPSK	1	271	23.73	24.26	23.70	
100	QPSK	135	0	23.59	24.20	23.44	25.4
100	QPSK	135	69	25.02	24.76	24.90	25.7
100	QPSK	135	138	23.57	23.51	24.00	25.4
100	QPSK	270	0	23.89	24.11	24.13	
100	16QAM	1	1	22.77	23.91	22.71	25.4
100	64QAM	1	1	21.23	22.21	21.20	23.9
100	256QAM	1	1	19.32	20.58	19.21	21.9
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.87	24.99	24.88	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.84	25.01	24.94	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.74	24.77	24.70	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.74	24.78	24.73	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.03	24.01	24.07	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.03	24.00	23.99	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.11	24.16	24.10	25.7



n77_Ant 7							
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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.50	24.23	24.30	25.7
100	PI/2 BPSK	1	137	24.57	24.32	24.52	
100	PI/2 BPSK	1	271	24.57	24.47	24.58	
100	PI/2 BPSK	135	0	23.97	23.74	23.90	25.2
100	PI/2 BPSK	135	69	24.52	24.25	24.37	25.7
100	PI/2 BPSK	135	138	24.00	23.82	24.00	25.2
100	PI/2 BPSK	270	0	23.99	23.82	23.92	
100	QPSK	1	1	24.40	24.32	24.42	25.7
100	QPSK	1	137	24.45	24.27	24.43	
100	QPSK	1	271	24.52	24.41	24.52	
100	QPSK	135	0	23.49	23.23	23.38	24.7
100	QPSK	135	69	24.50	24.31	24.44	25.7
100	QPSK	135	138	23.53	23.28	23.38	24.7
100	QPSK	270	0	23.48	23.26	23.36	
100	16QAM	1	1	23.65	23.39	23.58	24.7
100	64QAM	1	1	22.05	21.95	22.14	23.2
100	256QAM	1	1	20.01	19.82	20.01	21.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.46	24.22	24.26	25.7
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.49	24.20	24.26	25.7





n77_HPUE_Ant 7							
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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.24	25.10	25.03	26.5
100	PI/2 BPSK	1	137	25.34	25.16	25.08	
100	PI/2 BPSK	1	271	25.47	25.26	25.21	
100	PI/2 BPSK	135	0	24.74	24.58	24.48	26.0
100	PI/2 BPSK	135	69	25.30	25.11	25.03	26.5
100	PI/2 BPSK	135	138	24.80	24.64	24.60	26.0
100	PI/2 BPSK	270	0	24.76	24.56	24.51	
100	QPSK	1	1	25.29	25.08	25.00	26.5
100	QPSK	1	137	25.38	25.14	25.10	
100	QPSK	1	271	25.45	25.22	25.19	
100	QPSK	135	0	24.69	24.52	24.50	25.5
100	QPSK	135	69	25.25	25.05	24.98	26.5
100	QPSK	135	138	24.41	24.20	24.18	25.5
100	QPSK	270	0	24.27	24.08	24.04	
100	16QAM	1	1	24.49	24.29	24.27	25.5
100	64QAM	1	1	22.95	22.70	22.63	24.0
100	256QAM	1	1	20.84	20.65	20.55	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.22	25.08	25.01	26.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	25.23	25.07	25.02	26.5



n78_Ant 7							
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	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.98		25.0
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		24.00		
100	PI/2 BPSK	135	0		23.42		24.5
100	PI/2 BPSK	135	69		23.92		25.0
100	PI/2 BPSK	135	138		23.42		24.5
100	PI/2 BPSK	270	0		23.46		
100	QPSK	1	1		23.91		25.0
100	QPSK	1	137		23.91		
100	QPSK	1	271		23.95		
100	QPSK	135	0		22.84		24.0
100	QPSK	135	69		23.93		25.0
100	QPSK	135	138		22.92		24.0
100	QPSK	270	0		22.91		
100	16QAM	1	1		22.64		24.0
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.55		20.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.90	23.92	23.77	25.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.93	23.96	23.70	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.92	23.91	23.83	25.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.86	23.79	23.82	25.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.86	23.90	23.81	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.88	23.89	23.67	25.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.87	23.95	23.89	25.0



n78_HPUE_Ant 7							
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	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		25.42		26.5
100	PI/2 BPSK	1	137		25.45		
100	PI/2 BPSK	1	271		25.49		
100	PI/2 BPSK	135	0		24.90		26.0
100	PI/2 BPSK	135	69		25.42		26.5
100	PI/2 BPSK	135	138		24.93		26.0
100	PI/2 BPSK	270	0		24.92		
100	QPSK	1	1		25.44		26.5
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.43		
100	QPSK	135	0		24.35		25.5
100	QPSK	135	69		25.35		26.5
100	QPSK	135	138		24.45		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.19		25.5
100	64QAM	1	1		22.95		24.0
100	256QAM	1	1		21.18		22.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	25.38	25.40	25.36	26.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	25.44	25.38	25.41	26.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.37	25.43	25.41	26.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	25.42	25.39	25.26	26.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	25.43	25.44	25.47	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.33	25.38	25.36	26.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	25.32	25.32	25.46	26.5



n41_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.76	24.70	24.68	25.5
100	PI/2 BPSK	1	137	24.71	24.68	24.68	
100	PI/2 BPSK	1	271	24.64	24.80	24.78	
100	PI/2 BPSK	135	0	24.74	24.58	24.55	25.0
100	PI/2 BPSK	135	69	24.71	24.60	24.54	25.5
100	PI/2 BPSK	135	138	24.63	24.60	24.55	25.0
100	PI/2 BPSK	270	0	24.70	24.64	24.61	
100	QPSK	1	1	24.76	24.67	24.58	25.5
100	QPSK	1	137	24.71	24.66	24.57	
100	QPSK	1	271	24.64	24.67	24.59	
100	QPSK	135	0	24.76	24.59	24.58	25.5
100	QPSK	135	69	24.70	24.55	24.50	25.5
100	QPSK	135	138	24.64	24.57	24.57	25.5
100	QPSK	270	0	24.71	24.66	24.60	
100	16QAM	1	1	24.65	24.59	24.58	25.5
100	64QAM	1	1	24.48	24.49	24.45	25.5
100	256QAM	1	1	22.36	22.33	22.23	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.66	24.61	24.46	25.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.66	24.61	24.53	25.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.72	24.69	24.60	25.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.63	24.60	24.44	25.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.68	24.69	24.61	25.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.56	24.54	24.36	25.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.69	24.60	24.63	25.5



n77_Ant 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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.84	23.76	23.53	25.5
100	PI/2 BPSK	1	137	23.94	23.65	23.60	
100	PI/2 BPSK	1	271	23.91	23.72	23.50	
100	PI/2 BPSK	135	0	23.30	23.09	23.00	25.0
100	PI/2 BPSK	135	69	23.85	23.55	23.56	25.5
100	PI/2 BPSK	135	138	23.38	23.16	23.01	25.0
100	PI/2 BPSK	270	0	23.37	23.07	23.04	
100	QPSK	1	1	23.79	23.57	23.36	
100	QPSK	1	137	23.89	23.56	23.32	25.5
100	QPSK	1	271	23.88	23.68	23.49	
100	QPSK	135	0	23.28	22.59	22.36	
100	QPSK	135	69	23.83	23.55	23.49	25.5
100	QPSK	135	138	23.35	22.62	22.51	24.5
100	QPSK	270	0	23.35	22.64	22.56	
100	16QAM	1	1	22.54	22.91	22.72	
100	64QAM	1	1	21.32	21.25	21.06	23.0
100	256QAM	1	1	19.55	19.18	18.99	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.02	23.80	25.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.12	24.03	23.83	25.5



n77_HPUE_Ant 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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.72	24.64	24.43	26.0
100	PI/2 BPSK	1	137	24.80	24.53	24.49	
100	PI/2 BPSK	1	271	24.84	24.59	24.40	
100	PI/2 BPSK	135	0	24.23	24.03	23.92	25.5
100	PI/2 BPSK	135	69	24.77	24.48	24.30	26.0
100	PI/2 BPSK	135	138	24.28	24.07	24.05	25.5
100	PI/2 BPSK	270	0	24.23	23.97	23.93	
100	QPSK	1	1	24.67	24.47	24.30	
100	QPSK	1	137	24.75	24.51	24.37	26.0
100	QPSK	1	271	24.77	24.56	24.40	
100	QPSK	135	0	23.75	23.48	23.46	
100	QPSK	135	69	24.74	24.50	24.43	26.0
100	QPSK	135	138	23.79	23.51	23.36	25.0
100	QPSK	270	0	23.79	23.45	23.38	
100	16QAM	1	1	23.89	23.70	23.67	
100	64QAM	1	1	22.32	22.16	22.03	23.5
100	256QAM	1	1	20.27	20.06	19.90	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.72	24.63	24.42	26.0
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.70	24.60	24.41	26.0



n78_Ant 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				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.54		25.5
100	PI/2 BPSK	1	137		23.50		
100	PI/2 BPSK	1	271		23.51		
100	PI/2 BPSK	135	0		23.07		25.0
100	PI/2 BPSK	135	69		23.50		25.5
100	PI/2 BPSK	135	138		23.14		25.0
100	PI/2 BPSK	270	0		23.08		
100	QPSK	1	1		23.50		
100	QPSK	1	137		23.51		25.5
100	QPSK	1	271		23.50		
100	QPSK	135	0		22.56		
100	QPSK	135	69		23.54		25.5
100	QPSK	135	138		22.62		24.5
100	QPSK	270	0		22.56		
100	16QAM	1	1		22.39		
100	64QAM	1	1		21.13		23.0
100	256QAM	1	1		19.34		21.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.42	23.50	23.49	25.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.59	23.63	23.57	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.63	23.60	23.57	25.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.62	23.62	23.63	25.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.55	23.63	23.59	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.44	23.59	23.50	25.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.53	23.50	23.49	25.5



n78_HPUE_Ant 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				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		24.91		26.0
100	PI/2 BPSK	1	137		24.90		
100	PI/2 BPSK	1	271		24.96		
100	PI/2 BPSK	135	0		24.37		25.5
100	PI/2 BPSK	135	69		24.87		26.0
100	PI/2 BPSK	135	138		24.40		25.5
100	PI/2 BPSK	270	0		24.40		
100	QPSK	1	1		24.93		
100	QPSK	1	137		24.90		26.0
100	QPSK	1	271		24.89		
100	QPSK	135	0		23.89		
100	QPSK	135	69		24.87		26.0
100	QPSK	135	138		23.93		25.0
100	QPSK	270	0		23.86		
100	16QAM	1	1		23.64		
100	64QAM	1	1		22.47		23.5
100	256QAM	1	1		20.68		21.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	24.90	24.91	24.89	26.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	24.88	24.88	24.90	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.86	24.86	24.82	26.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	24.90	24.90	24.86	26.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	24.81	24.90	24.85	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.86	24.86	24.79	26.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	24.83	24.91	24.87	26.0





n41_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.64	24.69	24.59	25.7
100	PI/2 BPSK	1	137	24.76	24.70	24.66	
100	PI/2 BPSK	1	271	24.67	24.61	24.56	
100	PI/2 BPSK	135	0	24.15	24.16	24.00	25.2
100	PI/2 BPSK	135	69	24.65	24.63	24.58	25.7
100	PI/2 BPSK	135	138	24.25	24.10	24.02	25.2
100	PI/2 BPSK	270	0	24.20	24.12	24.09	
100	QPSK	1	1	24.72	24.63	24.64	25.7
100	QPSK	1	137	24.76	24.56	24.64	
100	QPSK	1	271	24.67	24.59	24.57	
100	QPSK	135	0	23.67	23.66	23.49	25.7
100	QPSK	135	69	24.63	24.54	24.57	
100	QPSK	135	138	23.65	23.51	23.55	
100	QPSK	270	0	23.69	23.62	23.55	24.7
100	16QAM	1	1	23.79	23.88	23.74	24.7
100	64QAM	1	1	22.29	22.36	22.28	23.2
100	256QAM	1	1	20.38	20.39	20.28	21.2
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.60	24.53	24.49	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.64	24.61	24.59	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.58	24.59	24.60	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.60	24.64	24.52	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.61	24.55	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.54	24.51	24.55	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.39	24.51	24.44	25.7



n41_HPUE PC2_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.85	25.38	25.24	25.9
100	PI/2 BPSK	1	137	25.37	25.31	25.17	
100	PI/2 BPSK	1	271	25.37	25.21	25.07	
100	PI/2 BPSK	135	0	25.09	25.23	25.12	25.9
100	PI/2 BPSK	135	69	25.32	25.45	25.06	25.9
100	PI/2 BPSK	135	138	25.30	25.18	25.11	25.9
100	PI/2 BPSK	270	0	25.27	25.40	25.17	
100	QPSK	1	1	24.85	25.32	25.26	
100	QPSK	1	137	25.37	25.29	25.13	25.9
100	QPSK	1	271	25.35	25.20	25.08	
100	QPSK	135	0	25.09	25.20	25.13	
100	QPSK	135	69	25.33	25.22	25.10	25.9
100	QPSK	135	138	25.31	25.17	25.08	25.9
100	QPSK	270	0	25.22	25.29	25.11	
100	16QAM	1	1	24.82	25.46	24.80	
100	64QAM	1	1	23.33	24.46	23.08	25.0
100	256QAM	1	1	21.57	22.65	21.94	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.71	25.25	25.17	25.9
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.79	25.34	25.23	25.9
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.84	25.37	25.14	25.9
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.83	25.37	25.20	25.9
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.79	25.28	25.18	25.9
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.77	25.28	25.15	25.9
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.76	25.28	25.17	25.9



n41 PC3_Ant 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				509202	518598	528000	25.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.77	25.03	23.51	25.7
100	PI/2 BPSK	1	137	25.17	24.13	25.19	
100	PI/2 BPSK	1	271	23.71	24.34	22.70	25.2
100	PI/2 BPSK	135	0	24.09	24.66	24.02	
100	PI/2 BPSK	135	69	25.01	24.67	24.99	25.2
100	PI/2 BPSK	135	138	24.10	23.86	24.04	
100	PI/2 BPSK	270	0	24.14	24.48	24.22	25.7
100	QPSK	1	1	23.70	25.02	23.52	
100	QPSK	1	137	25.01	24.10	25.15	25.7
100	QPSK	1	271	23.73	24.26	23.70	
100	QPSK	135	0	23.59	24.20	23.44	25.7
100	QPSK	135	69	25.02	24.76	24.90	
100	QPSK	135	138	23.57	23.51	24.00	25.7
100	QPSK	270	0	23.89	24.11	24.13	
100	16QAM	1	1	22.77	23.91	22.71	24.8
100	64QAM	1	1	21.23	22.21	21.20	
100	256QAM	1	1	19.32	20.58	19.21	22.8
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	25.7
90	PI/2 BPSK	1	1	24.87	24.99	24.88	
Channel				507204	518598	529998	25.7
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.84	25.01	24.94	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	25.7
60	PI/2 BPSK	1	1	24.74	24.77	24.70	
Channel				504204	518598	532998	25.7
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.74	24.78	24.73	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	25.7
40	PI/2 BPSK	1	1	24.03	24.01	24.07	
Channel				502200	518598	534996	25.7
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.03	24.00	23.99	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	25.7
20	PI/2 BPSK	1	1	24.11	24.16	24.10	



n77_Ant 7							
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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.50	24.23	24.30	25.7
100	PI/2 BPSK	1	137	24.57	24.32	24.52	
100	PI/2 BPSK	1	271	24.57	24.47	24.58	
100	PI/2 BPSK	135	0	23.97	23.74	23.90	25.2
100	PI/2 BPSK	135	69	24.52	24.25	24.37	25.7
100	PI/2 BPSK	135	138	24.00	23.82	24.00	25.2
100	PI/2 BPSK	270	0	23.99	23.82	23.92	
100	QPSK	1	1	24.40	24.32	24.42	25.7
100	QPSK	1	137	24.45	24.27	24.43	
100	QPSK	1	271	24.52	24.41	24.52	
100	QPSK	135	0	23.49	23.23	23.38	24.7
100	QPSK	135	69	24.50	24.31	24.44	25.7
100	QPSK	135	138	23.53	23.28	23.38	24.7
100	QPSK	270	0	23.48	23.26	23.36	
100	16QAM	1	1	23.65	23.39	23.58	24.7
100	64QAM	1	1	22.05	21.95	22.14	23.2
100	256QAM	1	1	20.01	19.82	20.01	21.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.46	24.22	24.26	25.7
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.49	24.20	24.26	25.7



n77_HPUE_Ant 7							
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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.24	25.10	25.03	26.5
100	PI/2 BPSK	1	137	25.34	25.16	25.08	
100	PI/2 BPSK	1	271	25.47	25.26	25.21	
100	PI/2 BPSK	135	0	24.74	24.58	24.48	26.0
100	PI/2 BPSK	135	69	25.30	25.11	25.03	26.5
100	PI/2 BPSK	135	138	24.80	24.64	24.60	26.0
100	PI/2 BPSK	270	0	24.76	24.56	24.51	
100	QPSK	1	1	25.29	25.08	25.00	
100	QPSK	1	137	25.38	25.14	25.10	26.5
100	QPSK	1	271	25.45	25.22	25.19	
100	QPSK	135	0	24.69	24.52	24.50	
100	QPSK	135	69	25.25	25.05	24.98	26.5
100	QPSK	135	138	24.41	24.20	24.18	25.5
100	QPSK	270	0	24.27	24.08	24.04	
100	16QAM	1	1	24.49	24.29	24.27	
100	64QAM	1	1	22.95	22.70	22.63	24.0
100	256QAM	1	1	20.84	20.65	20.55	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.22	25.08	25.01	
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	25.23	25.07	25.02	



n78_Ant 7							
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	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.98		25.0
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		24.00		
100	PI/2 BPSK	135	0		23.42		24.5
100	PI/2 BPSK	135	69		23.92		25.0
100	PI/2 BPSK	135	138		23.42		24.5
100	PI/2 BPSK	270	0		23.46		
100	QPSK	1	1		23.91		25.0
100	QPSK	1	137		23.91		
100	QPSK	1	271		23.95		
100	QPSK	135	0		22.84		24.0
100	QPSK	135	69		23.93		25.0
100	QPSK	135	138		22.92		24.0
100	QPSK	270	0		22.91		
100	16QAM	1	1		22.64		24.0
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.55		20.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.90	23.92	23.77	25.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.93	23.96	23.70	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.92	23.91	23.83	25.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.86	23.79	23.82	25.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.86	23.90	23.81	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.88	23.89	23.67	25.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.87	23.95	23.89	25.0



n78_HPUE_Ant 7							
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	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		25.42		26.5
100	PI/2 BPSK	1	137		25.45		
100	PI/2 BPSK	1	271		25.49		
100	PI/2 BPSK	135	0		24.90		26.0
100	PI/2 BPSK	135	69		25.42		26.5
100	PI/2 BPSK	135	138		24.93		26.0
100	PI/2 BPSK	270	0		24.92		
100	QPSK	1	1		25.44		26.5
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.43		
100	QPSK	135	0		24.35		25.5
100	QPSK	135	69		25.35		26.5
100	QPSK	135	138		24.45		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.19		25.5
100	64QAM	1	1		22.95		24.0
100	256QAM	1	1		21.18		22.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	25.38	25.40	25.36	26.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	25.44	25.38	25.41	26.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.37	25.43	25.41	26.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	25.42	25.39	25.26	26.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	25.43	25.44	25.47	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.33	25.38	25.36	26.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	25.32	25.32	25.46	26.5



n41_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.76	24.70	24.68	25.5
100	PI/2 BPSK	1	137	24.71	24.68	24.68	
100	PI/2 BPSK	1	271	24.64	24.80	24.78	
100	PI/2 BPSK	135	0	24.74	24.58	24.55	25.0
100	PI/2 BPSK	135	69	24.71	24.60	24.54	25.5
100	PI/2 BPSK	135	138	24.63	24.60	24.55	25.0
100	PI/2 BPSK	270	0	24.70	24.64	24.61	
100	QPSK	1	1	24.76	24.67	24.58	25.5
100	QPSK	1	137	24.71	24.66	24.57	
100	QPSK	1	271	24.64	24.67	24.59	
100	QPSK	135	0	24.76	24.59	24.58	25.5
100	QPSK	135	69	24.70	24.55	24.50	25.5
100	QPSK	135	138	24.64	24.57	24.57	25.5
100	QPSK	270	0	24.71	24.66	24.60	
100	16QAM	1	1	24.65	24.59	24.58	25.5
100	64QAM	1	1	24.48	24.49	24.45	25.5
100	256QAM	1	1	22.36	22.33	22.23	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.66	24.61	24.46	25.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.66	24.61	24.53	25.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.72	24.69	24.60	25.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.63	24.60	24.44	25.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.68	24.69	24.61	25.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.56	24.54	24.36	25.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.69	24.60	24.63	25.5





n77_Ant 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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.84	23.76	23.53	25.5
100	PI/2 BPSK	1	137	23.94	23.65	23.60	
100	PI/2 BPSK	1	271	23.91	23.72	23.50	
100	PI/2 BPSK	135	0	23.30	23.09	23.00	25.0
100	PI/2 BPSK	135	69	23.85	23.55	23.56	25.5
100	PI/2 BPSK	135	138	23.38	23.16	23.01	25.0
100	PI/2 BPSK	270	0	23.37	23.07	23.04	
100	QPSK	1	1	23.79	23.57	23.36	25.5
100	QPSK	1	137	23.89	23.56	23.32	
100	QPSK	1	271	23.88	23.68	23.49	
100	QPSK	135	0	23.28	22.59	22.36	24.5
100	QPSK	135	69	23.83	23.55	23.49	25.5
100	QPSK	135	138	23.35	22.62	22.51	24.5
100	QPSK	270	0	23.35	22.64	22.56	
100	16QAM	1	1	22.54	22.91	22.72	24.5
100	64QAM	1	1	21.32	21.25	21.06	23.0
100	256QAM	1	1	19.55	19.18	18.99	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.02	23.80	25.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.12	24.03	23.83	25.5



n77_HPUE_Ant 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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.72	24.64	24.43	26.0
100	PI/2 BPSK	1	137	24.80	24.53	24.49	
100	PI/2 BPSK	1	271	24.84	24.59	24.40	
100	PI/2 BPSK	135	0	24.23	24.03	23.92	25.5
100	PI/2 BPSK	135	69	24.77	24.48	24.30	26.0
100	PI/2 BPSK	135	138	24.28	24.07	24.05	25.5
100	PI/2 BPSK	270	0	24.23	23.97	23.93	
100	QPSK	1	1	24.67	24.47	24.30	
100	QPSK	1	137	24.75	24.51	24.37	26.0
100	QPSK	1	271	24.77	24.56	24.40	
100	QPSK	135	0	23.75	23.48	23.46	
100	QPSK	135	69	24.74	24.50	24.43	26.0
100	QPSK	135	138	23.79	23.51	23.36	25.0
100	QPSK	270	0	23.79	23.45	23.38	
100	16QAM	1	1	23.89	23.70	23.67	
100	64QAM	1	1	22.32	22.16	22.03	23.5
100	256QAM	1	1	20.27	20.06	19.90	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.72	24.63	24.42	26.0
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.70	24.60	24.41	26.0



n78_Ant 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				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.54		25.5
100	PI/2 BPSK	1	137		23.50		
100	PI/2 BPSK	1	271		23.51		
100	PI/2 BPSK	135	0		23.07		25.0
100	PI/2 BPSK	135	69		23.50		25.5
100	PI/2 BPSK	135	138		23.14		25.0
100	PI/2 BPSK	270	0		23.08		
100	QPSK	1	1		23.50		
100	QPSK	1	137		23.51		25.5
100	QPSK	1	271		23.50		
100	QPSK	135	0		22.56		
100	QPSK	135	69		23.54		25.5
100	QPSK	135	138		22.62		24.5
100	QPSK	270	0		22.56		
100	16QAM	1	1		22.39		
100	64QAM	1	1		21.13		23.0
100	256QAM	1	1		19.34		21.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.42	23.50	23.49	25.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.59	23.63	23.57	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.63	23.60	23.57	25.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.62	23.62	23.63	25.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.55	23.63	23.59	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.44	23.59	23.50	25.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.53	23.50	23.49	25.5



n78_HPUE_Ant 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				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		24.91		26.0
100	PI/2 BPSK	1	137		24.90		
100	PI/2 BPSK	1	271		24.96		
100	PI/2 BPSK	135	0		24.37		25.5
100	PI/2 BPSK	135	69		24.87		26.0
100	PI/2 BPSK	135	138		24.40		25.5
100	PI/2 BPSK	270	0		24.40		
100	QPSK	1	1		24.93		
100	QPSK	1	137		24.90		26.0
100	QPSK	1	271		24.89		
100	QPSK	135	0		23.89		
100	QPSK	135	69		24.87		26.0
100	QPSK	135	138		23.93		25.0
100	QPSK	270	0		23.86		
100	16QAM	1	1		23.64		
100	64QAM	1	1		22.47		23.5
100	256QAM	1	1		20.68		21.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	24.90	24.91	24.89	26.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	24.88	24.88	24.90	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.86	24.86	24.82	26.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	24.90	24.90	24.86	26.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	24.81	24.90	24.85	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.86	24.86	24.79	26.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	24.83	24.91	24.87	26.0



n41_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.64	24.69	24.59	25.7
100	PI/2 BPSK	1	137	24.76	24.70	24.66	
100	PI/2 BPSK	1	271	24.67	24.61	24.56	
100	PI/2 BPSK	135	0	24.15	24.16	24.00	25.2
100	PI/2 BPSK	135	69	24.65	24.63	24.58	25.7
100	PI/2 BPSK	135	138	24.25	24.10	24.02	25.2
100	PI/2 BPSK	270	0	24.20	24.12	24.09	
100	QPSK	1	1	24.72	24.63	24.64	25.7
100	QPSK	1	137	24.76	24.56	24.64	
100	QPSK	1	271	24.67	24.59	24.57	
100	QPSK	135	0	23.67	23.66	23.49	25.7
100	QPSK	135	69	24.63	24.54	24.57	
100	QPSK	135	138	23.65	23.51	23.55	
100	QPSK	270	0	23.69	23.62	23.55	24.7
100	16QAM	1	1	23.79	23.88	23.74	24.7
100	64QAM	1	1	22.29	22.36	22.28	23.2
100	256QAM	1	1	20.38	20.39	20.28	21.2
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.60	24.53	24.49	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.64	24.61	24.59	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.58	24.59	24.60	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.60	24.64	24.52	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.61	24.55	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.54	24.51	24.55	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.39	24.51	24.44	25.7



n41_HPUE PC2_Ant 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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.85	25.38	25.24	26.8
100	PI/2 BPSK	1	137	25.37	25.31	25.17	
100	PI/2 BPSK	1	271	25.37	25.21	25.07	
100	PI/2 BPSK	135	0	25.09	25.23	25.12	26.8
100	PI/2 BPSK	135	69	25.32	25.45	25.06	26.8
100	PI/2 BPSK	135	138	25.30	25.18	25.11	26.8
100	PI/2 BPSK	270	0	25.27	25.40	25.17	
100	QPSK	1	1	24.85	25.32	25.26	
100	QPSK	1	137	25.37	25.29	25.13	26.8
100	QPSK	1	271	25.35	25.20	25.08	
100	QPSK	135	0	25.09	25.20	25.13	
100	QPSK	135	69	25.33	25.22	25.10	26.8
100	QPSK	135	138	25.31	25.17	25.08	26.5
100	QPSK	270	0	25.22	25.29	25.11	
100	16QAM	1	1	24.82	25.46	24.80	
100	64QAM	1	1	23.33	24.46	23.08	25.0
100	256QAM	1	1	21.57	22.65	21.94	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.71	25.25	25.17	26.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.79	25.34	25.23	26.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.84	25.37	25.14	26.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.83	25.37	25.20	26.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.79	25.28	25.18	26.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.77	25.28	25.15	26.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.76	25.28	25.17	26.8



n41 PC3_Ant 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				509202	518598	528000	25.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.77	25.03	23.51	25.7
100	PI/2 BPSK	1	137	25.17	24.13	25.19	
100	PI/2 BPSK	1	271	23.71	24.34	22.70	25.2
100	PI/2 BPSK	135	0	24.09	24.66	24.02	
100	PI/2 BPSK	135	69	25.01	24.67	24.99	25.2
100	PI/2 BPSK	135	138	24.10	23.86	24.04	
100	PI/2 BPSK	270	0	24.14	24.48	24.22	25.7
100	QPSK	1	1	23.70	25.02	23.52	
100	QPSK	1	137	25.01	24.10	25.15	25.4
100	QPSK	1	271	23.73	24.26	23.70	
100	QPSK	135	0	23.59	24.20	23.44	25.7
100	QPSK	135	69	25.02	24.76	24.90	
100	QPSK	135	138	23.57	23.51	24.00	25.4
100	QPSK	270	0	23.89	24.11	24.13	
100	16QAM	1	1	22.77	23.91	22.71	23.9
100	64QAM	1	1	21.23	22.21	21.20	
100	256QAM	1	1	19.32	20.58	19.21	21.9
Channel				508200	518598	528996	25.7
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.87	24.99	24.88	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	25.7
80	PI/2 BPSK	1	1	24.84	25.01	24.94	
Channel				505200	518598	531996	25.7
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.74	24.77	24.70	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	25.7
50	PI/2 BPSK	1	1	24.74	24.78	24.73	
Channel				503202	518598	534000	25.7
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.03	24.01	24.07	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	25.7
30	PI/2 BPSK	1	1	24.03	24.00	23.99	
Channel				501204	518598	535998	25.7
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.11	24.16	24.10	25.7



n77_Ant 7							
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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.50	24.23	24.30	25.7
100	PI/2 BPSK	1	137	24.57	24.32	24.52	
100	PI/2 BPSK	1	271	24.57	24.47	24.58	
100	PI/2 BPSK	135	0	23.97	23.74	23.90	25.2
100	PI/2 BPSK	135	69	24.52	24.25	24.37	25.7
100	PI/2 BPSK	135	138	24.00	23.82	24.00	25.2
100	PI/2 BPSK	270	0	23.99	23.82	23.92	
100	QPSK	1	1	24.40	24.32	24.42	25.7
100	QPSK	1	137	24.45	24.27	24.43	
100	QPSK	1	271	24.52	24.41	24.52	
100	QPSK	135	0	23.49	23.23	23.38	24.7
100	QPSK	135	69	24.50	24.31	24.44	25.7
100	QPSK	135	138	23.53	23.28	23.38	24.7
100	QPSK	270	0	23.48	23.26	23.36	
100	16QAM	1	1	23.65	23.39	23.58	24.7
100	64QAM	1	1	22.05	21.95	22.14	23.2
100	256QAM	1	1	20.01	19.82	20.01	21.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.46	24.22	24.26	25.7
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.49	24.20	24.26	25.7





n77_HPUE_Ant 7							
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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.24	25.10	25.03	26.5
100	PI/2 BPSK	1	137	25.34	25.16	25.08	
100	PI/2 BPSK	1	271	25.47	25.26	25.21	
100	PI/2 BPSK	135	0	24.74	24.58	24.48	26.0
100	PI/2 BPSK	135	69	25.30	25.11	25.03	26.5
100	PI/2 BPSK	135	138	24.80	24.64	24.60	26.0
100	PI/2 BPSK	270	0	24.76	24.56	24.51	
100	QPSK	1	1	25.29	25.08	25.00	
100	QPSK	1	137	25.38	25.14	25.10	26.5
100	QPSK	1	271	25.45	25.22	25.19	
100	QPSK	135	0	24.69	24.52	24.50	
100	QPSK	135	69	25.25	25.05	24.98	26.5
100	QPSK	135	138	24.41	24.20	24.18	25.5
100	QPSK	270	0	24.27	24.08	24.04	
100	16QAM	1	1	24.49	24.29	24.27	
100	64QAM	1	1	22.95	22.70	22.63	24.0
100	256QAM	1	1	20.84	20.65	20.55	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.22	25.08	25.01	26.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	25.23	25.07	25.02	26.5



n78_Ant 7							
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	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.98		25.0
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		24.00		
100	PI/2 BPSK	135	0		23.42		24.5
100	PI/2 BPSK	135	69		23.92		25.0
100	PI/2 BPSK	135	138		23.42		24.5
100	PI/2 BPSK	270	0		23.46		
100	QPSK	1	1		23.91		25.0
100	QPSK	1	137		23.91		
100	QPSK	1	271		23.95		
100	QPSK	135	0		22.84		24.0
100	QPSK	135	69		23.93		25.0
100	QPSK	135	138		22.92		24.0
100	QPSK	270	0		22.91		
100	16QAM	1	1		22.64		24.0
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.55		20.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.90	23.92	23.77	25.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.93	23.96	23.70	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.92	23.91	23.83	25.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.86	23.79	23.82	25.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.86	23.90	23.81	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.88	23.89	23.67	25.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.87	23.95	23.89	25.0



n78_HPUE_Ant 7							
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	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		25.42		26.5
100	PI/2 BPSK	1	137		25.45		
100	PI/2 BPSK	1	271		25.49		
100	PI/2 BPSK	135	0		24.90		26.0
100	PI/2 BPSK	135	69		25.42		26.5
100	PI/2 BPSK	135	138		24.93		26.0
100	PI/2 BPSK	270	0		24.92		
100	QPSK	1	1		25.44		26.5
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.43		
100	QPSK	135	0		24.35		25.5
100	QPSK	135	69		25.35		26.5
100	QPSK	135	138		24.45		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.19		25.5
100	64QAM	1	1		22.95		24.0
100	256QAM	1	1		21.18		22.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	25.38	25.40	25.36	26.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	25.44	25.38	25.41	26.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.37	25.43	25.41	26.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	25.42	25.39	25.26	26.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	25.43	25.44	25.47	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.33	25.38	25.36	26.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	25.32	25.32	25.46	26.5



n41_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.76	24.70	24.68	25.5
100	PI/2 BPSK	1	137	24.71	24.68	24.68	
100	PI/2 BPSK	1	271	24.64	24.80	24.78	
100	PI/2 BPSK	135	0	24.74	24.58	24.55	25.0
100	PI/2 BPSK	135	69	24.71	24.60	24.54	25.5
100	PI/2 BPSK	135	138	24.63	24.60	24.55	25.0
100	PI/2 BPSK	270	0	24.70	24.64	24.61	
100	QPSK	1	1	24.76	24.67	24.58	25.5
100	QPSK	1	137	24.71	24.66	24.57	
100	QPSK	1	271	24.64	24.67	24.59	
100	QPSK	135	0	24.76	24.59	24.58	25.5
100	QPSK	135	69	24.70	24.55	24.50	25.5
100	QPSK	135	138	24.64	24.57	24.57	25.5
100	QPSK	270	0	24.71	24.66	24.60	
100	16QAM	1	1	24.65	24.59	24.58	25.5
100	64QAM	1	1	24.48	24.49	24.45	25.5
100	256QAM	1	1	22.36	22.33	22.23	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.66	24.61	24.46	25.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.66	24.61	24.53	25.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.72	24.69	24.60	25.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.63	24.60	24.44	25.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.68	24.69	24.61	25.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.56	24.54	24.36	25.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.69	24.60	24.63	25.5



n77_Ant 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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.84	23.76	23.53	25.5
100	PI/2 BPSK	1	137	23.94	23.65	23.60	
100	PI/2 BPSK	1	271	23.91	23.72	23.50	
100	PI/2 BPSK	135	0	23.30	23.09	23.00	25.0
100	PI/2 BPSK	135	69	23.85	23.55	23.56	25.5
100	PI/2 BPSK	135	138	23.38	23.16	23.01	25.0
100	PI/2 BPSK	270	0	23.37	23.07	23.04	
100	QPSK	1	1	23.79	23.57	23.36	25.5
100	QPSK	1	137	23.89	23.56	23.32	
100	QPSK	1	271	23.88	23.68	23.49	
100	QPSK	135	0	23.28	22.59	22.36	24.5
100	QPSK	135	69	23.83	23.55	23.49	25.5
100	QPSK	135	138	23.35	22.62	22.51	24.5
100	QPSK	270	0	23.35	22.64	22.56	
100	16QAM	1	1	22.54	22.91	22.72	24.5
100	64QAM	1	1	21.32	21.25	21.06	23.0
100	256QAM	1	1	19.55	19.18	18.99	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.02	23.80	25.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.12	24.03	23.83	25.5



n77_HPUE_Ant 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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.72	24.64	24.43	26.0
100	PI/2 BPSK	1	137	24.80	24.53	24.49	
100	PI/2 BPSK	1	271	24.84	24.59	24.40	
100	PI/2 BPSK	135	0	24.23	24.03	23.92	25.5
100	PI/2 BPSK	135	69	24.77	24.48	24.30	26.0
100	PI/2 BPSK	135	138	24.28	24.07	24.05	25.5
100	PI/2 BPSK	270	0	24.23	23.97	23.93	
100	QPSK	1	1	24.67	24.47	24.30	
100	QPSK	1	137	24.75	24.51	24.37	26.0
100	QPSK	1	271	24.77	24.56	24.40	
100	QPSK	135	0	23.75	23.48	23.46	
100	QPSK	135	69	24.74	24.50	24.43	26.0
100	QPSK	135	138	23.79	23.51	23.36	25.0
100	QPSK	270	0	23.79	23.45	23.38	
100	16QAM	1	1	23.89	23.70	23.67	
100	64QAM	1	1	22.32	22.16	22.03	23.5
100	256QAM	1	1	20.27	20.06	19.90	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.72	24.63	24.42	26.0
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.70	24.60	24.41	26.0



n78_Ant 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				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.54		25.5
100	PI/2 BPSK	1	137		23.50		
100	PI/2 BPSK	1	271		23.51		
100	PI/2 BPSK	135	0		23.07		25.0
100	PI/2 BPSK	135	69		23.50		25.5
100	PI/2 BPSK	135	138		23.14		25.0
100	PI/2 BPSK	270	0		23.08		
100	QPSK	1	1		23.50		
100	QPSK	1	137		23.51		25.5
100	QPSK	1	271		23.50		
100	QPSK	135	0		22.56		
100	QPSK	135	69		23.54		25.5
100	QPSK	135	138		22.62		24.5
100	QPSK	270	0		22.56		
100	16QAM	1	1		22.39		
100	64QAM	1	1		21.13		23.0
100	256QAM	1	1		19.34		21.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.42	23.50	23.49	25.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.59	23.63	23.57	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.63	23.60	23.57	25.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.62	23.62	23.63	25.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.55	23.63	23.59	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.44	23.59	23.50	25.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.53	23.50	23.49	25.5



n78_HPUE_Ant 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				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		24.91		26.0
100	PI/2 BPSK	1	137		24.90		
100	PI/2 BPSK	1	271		24.96		
100	PI/2 BPSK	135	0		24.37		25.5
100	PI/2 BPSK	135	69		24.87		26.0
100	PI/2 BPSK	135	138		24.40		25.5
100	PI/2 BPSK	270	0		24.40		
100	QPSK	1	1		24.93		
100	QPSK	1	137		24.90		26.0
100	QPSK	1	271		24.89		
100	QPSK	135	0		23.89		
100	QPSK	135	69		24.87		26.0
100	QPSK	135	138		23.93		25.0
100	QPSK	270	0		23.86		
100	16QAM	1	1		23.64		
100	64QAM	1	1		22.47		23.5
100	256QAM	1	1		20.68		21.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	24.90	24.91	24.89	26.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	24.88	24.88	24.90	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.86	24.86	24.82	26.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	24.90	24.90	24.86	26.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	24.81	24.90	24.85	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.86	24.86	24.79	26.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	24.83	24.91	24.87	26.0





2.4GHz WLAN		Ant 4					Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	19.70	20.00	100	19.50	20.00	100	19.60	20.00	19.40	20.00	22.51	23.0	100	
		6	2437	19.50	20.00		19.60	20.00		19.90	20.00	19.40	20.00	22.67	23.0		
		11	2462	19.50	20.00		19.60	20.00		19.70	20.00	19.50	20.00	22.61	23.0		
	802.11g 6Mbps	1	2412	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5
		6	2437		20.00		20.00		20.00		20.00		20.00		23.0		
		11	2462		18.00		18.00		18.00		18.00		21.0				
	802.11n-HT20 MCS0	1	2412	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5
		6	2437		19.50		19.50		19.50		19.50		19.50		22.5		
	802.11ac-VHT20 MCS0	1	2412	Not required	16.00	Not required	16.00	Not required	16.00	Not required	16.00	Not required	16.00	Not required	16.00	Not required	19.0
		6	2437		17.50		17.50		17.50		17.50		20.5				
		11	2462		19.50		19.50		19.50		19.50		22.5				

5GHz WLAN		Ant 4					Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5
		40	5200		17.50		17.50		17.50		17.50		20.5				
		44	5220		17.50		17.50		17.50		17.50		20.5				
		48	5240		17.50		17.50		17.50		17.50		20.5				
	802.11n-HT20 MCS0	36	5180	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5
		40	5200		17.50		17.50		17.50		17.50		20.5				
		44	5220		17.50		17.50		17.50		17.50		20.5				
		48	5240		17.50		17.50		17.50		17.50		20.5				
	802.11n-HT40 MCS0	38	5190	Not required	17.00	Not required	17.00	Not required	17.00	Not required	17.00	Not required	17.00	Not required	17.00	Not required	20.0
		46	5230		17.50		17.50		17.50		17.50		20.5				
	802.11ac-VHT20 MCS0	36	5180	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5
		40	5200		17.50		17.50		17.50		17.50		20.5				
		44	5220		17.50		17.50		17.50		17.50		20.5				
	802.11ac-VHT40 MCS0	38	5190	Not required	17.00	Not required	17.00	Not required	17.00	Not required	17.00	Not required	17.00	Not required	17.00	Not required	20.0
		46	5230		17.50		17.50		17.50		17.50		20.5				
		42	5210		16.50		16.50		16.50		16.50		19.5				

5GHz WLAN		Ant 4					Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5
		56	5280		17.50		17.50		17.50		17.50		20.5				
		60	5300		17.50		17.50		17.50		17.50		20.5				
		64	5320		17.50		17.50		17.50		17.50		20.5				
	802.11n-HT20 MCS0	52	5260	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5
		56	5280		17.50		17.50		17.50		17.50		20.5				
		60	5300		17.50		17.50		17.50		17.50		20.5				
		64	5320		17.50		17.50		17.50		17.50		20.5				
	802.11n-HT40 MCS0	54	5270	Not required	17.20	Not required	17.10	Not required	17.50	Not required	17.50	Not required	17.20	Not required	17.50	Not required	20.5
		62	5310		16.70		17.00		16.80		17.00		16.30		17.00		19.57
	802.11ac-VHT20 MCS0	52	5260	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5
		56	5280		17.50		17.50		17.50		17.50		20.5				
		60	5300		17.50		17.50		17.50		17.50		20.5				
		64	5320		17.50		17.50		17.50		17.50		20.5				
	802.11ac-VHT40 MCS0	54	5270	Not required	17.00	Not required	17.00	Not required	17.00	Not required	17.00	Not required	17.00	Not required	17.00	Not required	20.0
		62	5310		17.00		17.00		17.00		17.00		20.0				
802.11ac-VHT80 MCS0	58	5290	Not required	16.00	Not required	16.00	Not required	16.00	Not required	16.00	Not required	16.00	Not required	16.00	Not required	19.0	



5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not required	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	Not required	20.5	
		116	5580				17.50						17.50							20.5	
		124	5620				17.50						17.50							20.5	
		132	5660				17.50						17.50							20.5	
		144	5720				17.50						17.50							20.5	
	802.11n-HT20 MCS0	100	5500	Not required	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	Not required	20.5
		116	5580				17.50							17.50							20.5
		124	5620				17.50							17.50							20.5
		132	5660				17.50							17.50							20.5
		144	5720				17.50							17.50							20.5
	802.11n-HT40 MCS0	102	5510	15.70	16.00	95.88	15.30	16.00	95.30	15.60	16.00	95.30	15.60	16.00	15.90	16.00	18.76	19.00	95.37	20.5	
		110	5550	17.20	17.50		16.60	17.50		17.40	17.50		16.80	17.50	20.12	20.5					
		126	5630	17.10	17.50		16.40	17.50		17.40	17.50		16.80	17.50	20.12	20.5					
		134	5670	17.30	17.50		16.60	17.50		17.50	17.50		16.70	17.50	20.13	20.5					
		142	5710	16.90	17.50		16.90	17.50		17.50	17.50		16.70	17.50	20.13	20.5					
802.11ac-VHT20 MCS0	100	5500	Not required	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	Not required	20.5	
	116	5580				17.50							17.50							20.5	
	124	5620				17.50							17.50							20.5	
	132	5660				17.50							17.50							20.5	
	144	5720				17.50							17.50							20.5	
802.11ac-VHT40 MCS0	102	5510	Not required	Not required	Not required	16.00	Not required	Not required	Not required	Not required	Not required	Not required	16.00	Not required	Not required	Not required	Not required	Not required	Not required	19.0	
	110	5550				17.50							17.50							20.5	
	126	5630				17.50							17.50							20.5	
	134	5670				17.50							17.50							20.5	
	142	5710				17.50							17.50							20.5	
802.11ac-VHT80 MCS0	106	5530	Not required	Not required	Not required	14.50	Not required	Not required	Not required	Not required	Not required	Not required	14.50	Not required	Not required	Not required	Not required	Not required	Not required	17.5	
	122	5610				17.00							17.00							20.0	
	138	5690				17.00							17.00							20.0	

5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
5.8GHz WLAN	802.11a 6Mbps	149	5745	19.30	19.50	97.94	19.30	19.50	97.96	19.50	19.50	97.96	19.50	19.50	18.30	19.50	21.95	22.5	97.81	22.5	
		157	5785	19.20	19.50		19.20	19.50		19.30	19.50		22.26	22.5							
		165	5825	19.20	19.50		19.00	19.50		19.20	19.50		19.00	19.50	22.11	22.5					
	802.11n-HT20 MCS0	149	5745	Not required	Not required	Not required	19.50	Not required	Not required	Not required	Not required	Not required	Not required	19.50	Not required	Not required	Not required	Not required	Not required	Not required	22.5
		157	5785				19.50							19.50							22.5
		165	5825				19.50							19.50							22.5
	802.11n-HT40 MCS0	151	5755	Not required	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	Not required	20.5
		159	5795				17.50							17.50							20.5
	802.11ac-VHT20 MCS0	149	5745	Not required	Not required	Not required	19.50	Not required	Not required	Not required	Not required	Not required	Not required	19.50	Not required	Not required	Not required	Not required	Not required	Not required	22.5
		157	5785				19.50							19.50							22.5
		165	5825				19.50							19.50							22.5
	802.11ac-VHT40 MCS0	151	5755	Not required	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	Not required	20.5
		159	5795				17.50							17.50							20.5
	802.11ac-VHT80 MCS0	155	5775	Not required	Not required	Not required	17.00	Not required	Not required	Not required	Not required	Not required	Not required	17.00	Not required	Not required	Not required	Not required	Not required	Not required	20.0



2.4GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
																		802.11b 1Mbps	1
	6	2437	15.90	16.00	18.90	19.00	17.60	18.00	19.80	20.00	21.85	22.1							
	11	2462	15.90	16.00	18.90	19.00	17.60	18.00	19.80	20.00	21.85	22.1							
802.11g 6Mbps	1	2412	Not required	16.00	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	17.50	17.50	Not required	20.5	Not required		
	6	2437		16.00			19.00						18.00	20.00		22.1			
	11	2462		16.00			18.00						18.00	21.0					
802.11n-HT20 MCS0	1	2412		16.00			17.50						17.50	20.5					
	6	2437		16.00			19.00						18.00	21.8					
	11	2462		16.00			16.00						16.00	19.0					
802.11ac-VHT20 MCS0	1	2412	16.00	17.50	17.50	20.5													
	6	2437	16.00	19.00	18.00	21.8													
	11	2462	16.00	16.00	16.00	19.0													

5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
																		802.11a 6Mbps	36	5180	Not required
	40	5200	15.50	17.00	15.50	17.50	19.6														
	44	5220	15.50	17.00	15.50	17.50	19.6														
	48	5240	15.50	17.00	15.50	17.50	19.6														
802.11n-HT20 MCS0	36	5180	15.50	17.00	15.50	17.50	19.6														
	40	5200	15.50	17.00	15.50	17.50	19.6														
	44	5220	15.50	17.00	15.50	17.50	19.6														
	48	5240	15.50	17.00	15.50	17.50	19.6														
802.11n-HT40 MCS0	38	5190	15.50	17.00	15.50	17.50	19.6														
	46	5230	15.50	17.00	15.50	17.50	19.6														
	36	5180	15.50	17.00	15.50	17.50	19.6														
802.11ac-VHT20 MCS0	40	5200	15.50	17.00	15.50	17.50	19.6														
	44	5220	15.50	17.00	15.50	17.50	19.6														
	48	5240	15.50	17.00	15.50	17.50	19.6														
802.11ac-VHT40 MCS0	38	5190	15.50	17.00	15.50	17.50	19.3														
	46	5230	15.50	17.00	15.50	17.50	19.6														
802.11ac-VHT80 MCS0	42	5210	15.50	16.50	15.50	16.50	19.0														

5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3									
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %									
																		802.11a 6Mbps	52	5260	Not required	15.50	Not required	Not required	17.00	Not required
	56	5280	15.50	17.00	15.50	17.50	19.6																			
	60	5300	15.50	17.00	15.50	17.50	19.6																			
	64	5320	15.50	17.00	15.50	17.50	19.6																			
802.11n-HT20 MCS0	52	5260	15.50	17.00	15.50	17.50	19.6																			
	56	5280	15.50	17.00	15.50	17.50	19.6																			
	60	5300	15.50	17.00	15.50	17.50	19.6																			
	64	5320	15.50	17.00	15.50	17.50	19.6																			
802.11n-HT40 MCS0	54	5270	15.50	16.70	17.00	15.20	15.50	17.20	17.50	19.32	19.6	95.37														
	62	5310	15.50	16.10	17.00	15.20	15.50	16.90	17.00	19.14	19.3															
	52	5260	15.50	17.00	15.50	15.50	17.50	19.6																		
802.11ac-VHT20 MCS0	56	5280	15.50	17.00	15.50	17.50	19.6																			
	60	5300	15.50	17.00	15.50	17.50	19.6																			
	64	5320	15.50	17.00	15.50	17.50	19.6																			
802.11ac-VHT40 MCS0	54	5270	15.50	17.00	15.50	17.50	19.6																			
	62	5310	15.50	17.00	15.50	17.00	19.3																			
802.11ac-VHT80 MCS0	58	5290	15.50	15.50	92.11	16.00	15.50	16.00	18.8																	



5GHz WLAN		Ant 4					Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3													
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %												
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not required	Not required	Not required	15.00	Not required	Not required	14.50	Not required	15.50	Not required	18.0	Not required												
		116	5580													14.50	15.00	14.50	15.50	18.0							
		124	5620													14.50	15.00	14.50	15.50	18.0							
		132	5660													14.50	15.00	14.50	15.50	18.0							
		144	5720													14.50	15.00	14.50	15.50	18.0							
	802.11n-HT20 MCS0	100	5500													14.50	15.00	14.50	15.50	18.0							
		116	5580													14.50	15.00	14.50	15.50	18.0							
		124	5620													14.50	15.00	14.50	15.50	18.0							
		132	5660													14.50	15.00	14.50	15.50	18.0							
		144	5720													14.50	15.00	14.50	15.50	18.0							
	802.11n-HT40 MCS0	102	5510													14.50	15.00	14.50	15.50	18.0							
		110	5550													14.50	15.00	14.50	15.50	18.0							
		126	5630													14.50	15.00	14.50	15.50	18.0							
		134	5670													14.50	15.00	14.50	15.50	18.0							
	802.11ac-VHT20 MCS0	142	5710													14.50	15.00	14.50	15.50	18.0							
		100	5500													14.50	15.00	14.50	15.50	18.0							
		116	5580													14.50	15.00	14.50	15.50	18.0							
		124	5620													14.50	15.00	14.50	15.50	18.0							
	802.11ac-VHT40 MCS0	132	5660													14.50	15.00	14.50	15.50	18.0							
		144	5720													14.50	15.00	14.50	15.50	18.0							
		102	5510													14.50	15.00	14.50	15.50	18.0							
		110	5550													14.50	15.00	14.50	15.50	18.0							
	802.11ac-VHT80 MCS0	126	5630													14.50	15.00	14.50	15.50	18.0							
		134	5670													14.50	15.00	14.50	15.50	18.0							
		142	5710													14.50	15.00	14.50	15.50	18.0							
		106	5530													14.00	14.50	14.10	14.50	14.30	14.50	14.40	14.50	17.36	17.5		
	802.11ac-VHT80 MCS0	122	5610													14.20	14.50	14.50	15.00	92.62	14.40	14.50	15.40	15.50	17.94	18.0	91.78
		138	5690													14.20	14.50	14.60	15.00	14.40	14.50	15.10	15.50	17.77	18.0	91.78	

5GHz WLAN		Ant 4					Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3													
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %												
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	Not required	Not required	15.00	Not required	Not required	14.50	Not required	17.00	Not required	18.9	Not required												
		157	5785													15.00	15.00	14.50	17.00	18.9							
		165	5825													15.00	15.00	14.50	17.00	18.9							
	802.11n-HT20 MCS0	149	5745													15.00	15.00	14.50	17.00	18.9							
		157	5785													15.00	15.00	14.50	17.00	18.9							
		165	5825													15.00	15.00	14.50	17.00	18.9							
	802.11n-HT40 MCS0	151	5755													15.00	15.00	14.50	17.00	18.9							
		159	5795													15.00	15.00	14.50	17.00	18.9							
	802.11ac-VHT20 MCS0	149	5745													15.00	15.00	14.50	17.00	18.9							
		157	5785													15.00	15.00	14.50	17.00	18.9							
		165	5825													15.00	15.00	14.50	17.00	18.9							
	802.11ac-VHT40 MCS0	151	5755													15.00	15.00	14.50	17.00	18.9							
		159	5795													15.00	15.00	14.50	17.00	18.9							
	802.11ac-VHT80 MCS0	155	5775													14.70	15.00	14.70	15.00	92.62	14.50	14.50	16.60	17.00	18.69	18.9	91.78



2.4GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
																			802.11b 1Mbps
	6	2437	19.50	20.00	19.60	20.00	19.90	20.00	19.40	20.00	22.67	23.0							
	11	2462	19.50	20.00	19.60	20.00	19.70	20.00	19.50	20.00	22.61	23.0							
802.11g 6Mbps	1	2412	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	17.50	Not required	17.50	Not required	20.5	Not required	
	6	2437		20.00			20.00						20.00		23.0				
	11	2462		18.00			18.00						18.00		21.0				
802.11n-HT20 MCS0	1	2412	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	17.50	Not required	17.50	Not required	20.5	Not required	
	6	2437		19.50			19.50						19.50		22.5				
	11	2462		16.00			16.00						16.00		19.0				
802.11ac-VHT20 MCS0	1	2412	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	17.50	Not required	17.50	Not required	20.5	Not required	
	6	2437		19.50			19.50						19.50		22.5				
	11	2462		16.00			16.00						16.00		19.0				

5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
																			802.11a 6Mbps
	40	5200	17.50	17.50	17.50	20.5													
	44	5220	17.50	17.50	17.50	20.5													
802.11n-HT20 MCS0	36	5180	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	17.50	Not required	17.50	Not required	20.5	Not required	
	40	5200		17.50			17.50						17.50		20.5				
	44	5220		17.50			17.50						17.50		20.5				
802.11n-HT40 MCS0	38	5190	16.60	17.00	95.88	16.40	17.00	95.30	17.00	17.00	16.10	17.00	19.58	20.0	20.12	20.5	95.37		
	46	5230	17.10	17.50		16.90	17.50		17.40	17.50	16.80	17.50	20.12	20.5					
802.11ac-VHT20 MCS0	36	5180	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	17.50	Not required	17.50	Not required	20.5	Not required	
	40	5200		17.50			17.50						17.50		20.5				
	44	5220		17.50			17.50						17.50		20.5				
	48	5240	17.50	17.50		17.50	17.50		17.50	17.50	16.50	17.50	20.5	20.5					
802.11ac-VHT40 MCS0	38	5190	Not required	17.00	Not required	Not required	17.00	Not required	Not required	Not required	Not required	Not required	17.00	Not required	17.00	Not required	20.0	Not required	
	46	5230		17.50			17.50						17.50		20.5				
	42	5210		16.50			16.50						16.50		19.5				

5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
																			802.11a 6Mbps
	56	5280	17.50	17.50	17.50	20.5													
	60	5300	17.50	17.50	17.50	20.5													
802.11n-HT20 MCS0	52	5260	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	17.50	Not required	17.50	Not required	20.5	Not required	
	56	5280		17.50			17.50						17.50		20.5				
	60	5300		17.50			17.50						17.50		20.5				
802.11n-HT40 MCS0	54	5270	17.20	17.50	95.88	17.10	17.50	95.30	17.50	17.50	17.20	17.50	20.36	20.5	20.36	20.5	95.37		
	62	5310	16.70	17.00		16.10	17.00		16.80	17.00	16.30	17.00	19.57	20.0					
802.11ac-VHT20 MCS0	52	5260	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	17.50	Not required	17.50	Not required	20.5	Not required	
	56	5280		17.50			17.50						17.50		20.5				
	60	5300		17.50			17.50						17.50		20.5				
	64	5320	17.50	17.50		17.50	17.50		17.50	17.50	16.00	17.50	20.5	20.5					
802.11ac-VHT40 MCS0	54	5270	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	Not required	17.50	Not required	17.50	Not required	20.5	Not required	
	62	5310		17.00			17.00						17.00		20.0				
	58	5290		16.00			16.00						16.00		19.0				



5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	100	5500	Not required	17.50	Not required	Not required	15.00	Not required	Not required	17.50	Not required	17.50	17.50	Not required	17.50	Not required	17.50	17.50	20.5
	116	5580																	
	124	5620																	
	132	5660																	
	144	5720																	
	100	5500																	
	116	5580																	
	124	5620																	
	132	5660																	
	144	5720																	
	102	5510																	
	110	5550																	
	126	5630																	
	134	5670																	
	142	5710																	
802.11n-HT20 MCS0	100	5500	15.70	16.00	95.88	Not required	15.00	Not required	15.00	16.00	95.88	15.60	16.00	15.90	16.00	18.76	19.00	20.5	20.5
	110	5550																	
	126	5630																	
	134	5670																	
	142	5710																	
802.11n-HT40 MCS0	100	5500	17.20	17.50	95.88	Not required	15.00	Not required	15.00	16.00	95.88	17.40	17.50	16.80	17.50	20.12	20.5	20.5	20.5
	110	5550																	
	126	5630																	
	134	5670																	
	142	5710																	
802.11ac-VHT20 MCS0	100	5500	Not required	17.50	Not required	Not required	15.00	Not required	15.00	17.50	Not required	17.50	17.50	Not required	17.50	Not required	17.50	17.50	20.5
	116	5580																	
	124	5620																	
	132	5660																	
	144	5720																	
802.11ac-VHT40 MCS0	102	5510	Not required	16.00	Not required	Not required	15.00	Not required	15.00	16.00	Not required	17.50	17.50	Not required	17.50	Not required	17.50	17.50	20.5
	110	5550																	
	126	5630																	
	134	5670																	
	142	5710																	
802.11ac-VHT80 MCS0	106	5530	Not required	14.50	92.62	Not required	14.10	14.50	14.50	14.50	92.62	14.50	14.50	14.50	14.50	14.50	14.50	14.50	17.5
	122	5610																	
	138	5690																	
	138	5690																	

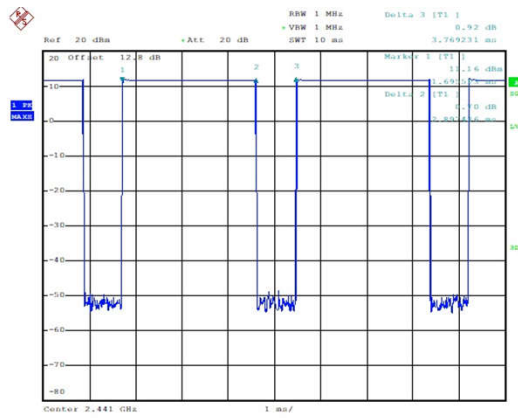
5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3																				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %																		
802.11a 6Mbps	149	5745	19.30	19.50	97.94	Not required	17.50	Not required	19.50	19.50	97.94	19.50	19.50	18.30	19.50	21.95	22.5	22.5	22.5																		
	157	5785																																			
	165	5825																																			
	149	5745																																			
	157	5785																																			
	165	5825																																			
	802.11n-HT20 MCS0	149																		5745	19.50	19.50	97.94	Not required	17.50	Not required	19.50	19.50	97.94	19.50	19.50	19.50	19.50	19.50	22.26	22.5	22.5
		157																		5785																	
		165																		5825																	
	802.11n-HT40 MCS0	151																		5755	17.50	17.50	95.30	17.20	17.50	95.30	17.50	17.50	95.30	17.50	17.50	17.50	17.50	17.50	17.50	20.5	
		159																		5795																	
	802.11ac-VHT20 MCS0	149																		5745	Not required	19.50	Not required	Not required	17.50	Not required	19.50	19.50	Not required	19.50	19.50	Not required	19.50	Not required	19.50	19.50	22.5
157		5785																																			
165		5825																																			
802.11ac-VHT40 MCS0	151	5755	Not required	17.50	Not required	Not required	17.50	Not required	17.50	17.50	Not required	17.50	17.50	17.50	17.50	17.50	17.50	17.50	20.5																		
	159	5795																																			
802.11ac-VHT80 MCS0	155	5775	Not required	17.00	Not required	17.00	Not required	17.00	17.00	Not required	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	20.0																		



Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.75	17.95	17.85
	CH 39	2441	17.98	17.23	17.21
	CH 78	2480	17.26	16.55	16.44
Tune-up Limit			18.00	18.00	18.00

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	17.60	17.40
	CH 19	2440	17.90	17.70
	CH 39	2480	17.60	17.40
Tune-up Limit			18.00	18.00

BT Duty cycle





Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	13.20	12.50	12.20
	CH 39	2441	13.90	13.10	12.70
	CH 78	2480	14.30	13.70	13.40
Tune-up Limit			14.50	14.50	14.50

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	13.30	13.20
	CH 19	2440	13.80	13.60
	CH 39	2480	13.90	13.80
Tune-up Limit			14.5	14.5





Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.75	17.95	17.85
	CH 39	2441	17.98	17.23	17.21
	CH 78	2480	17.26	16.55	16.44
Tune-up Limit			18.00	18.00	18.00

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	17.60	17.40
	CH 19	2440	17.90	17.70
	CH 39	2480	17.60	17.40
Tune-up Limit			18.00	18.00