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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.28		21.6
100	PI/2 BPSK	1	137		19.65		
100	PI/2 BPSK	1	271		20.12		
100	PI/2 BPSK	135	0		20.02		21.6
100	PI/2 BPSK	135	69		20.10		21.6
100	PI/2 BPSK	135	138		20.01		21.6
100	PI/2 BPSK	270	0		20.13		
100	QPSK	1	1		20.22		21.6
100	QPSK	1	137		19.70		
100	QPSK	1	271		19.95		
100	QPSK	135	0		19.97		21.6
100	QPSK	135	69		19.96		21.6
100	QPSK	135	138		19.95		21.6
100	QPSK	270	0		20.24		
100	16QAM	1	1		20.21		21.6
100	64QAM	1	1		20.09		21.6
100	256QAM	1	1		20.10		21.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.14	20.23	20.10	21.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.17	20.19	20.10	21.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.16	20.17	20.12	21.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.07	20.15	20.14	21.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.11	20.20	20.18	21.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.12	20.17	20.13	21.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.15	20.17	20.18	21.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.11	20.21	20.15	21.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.11	20.20	20.12	21.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.10	20.16	20.16	21.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.07	20.17	20.10	21.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.52		20.8
100	PI/2 BPSK	1	137		19.43		
100	PI/2 BPSK	1	271		19.43		
100	PI/2 BPSK	135	0		19.86		20.8
100	PI/2 BPSK	135	69		19.94		20.8
100	PI/2 BPSK	135	138		19.77		20.8
100	PI/2 BPSK	270	0		19.91		
100	QPSK	1	1		19.50		20.8
100	QPSK	1	137		19.40		
100	QPSK	1	271		19.31		
100	QPSK	135	0		19.92		20.8
100	QPSK	135	69		19.86		20.8
100	QPSK	135	138		19.79		20.8
100	QPSK	270	0		20.01		
100	16QAM	1	1		20.00		20.8
100	64QAM	1	1		19.97		20.8
100	256QAM	1	1		19.97		20.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.55	19.44	19.31	20.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.54	19.43	19.34	20.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.53	19.39	19.35	20.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.55	19.42	19.32	20.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.55	19.48	19.39	20.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.58	19.50	19.38	20.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.56	19.39	19.33	20.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.51	19.41	19.31	20.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.59	19.50	19.39	20.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.60	19.43	19.36	20.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.51	19.50	19.36	20.8



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.15		19.6
100	PI/2 BPSK	1	137		18.50		
100	PI/2 BPSK	1	271		19.13		
100	PI/2 BPSK	135	0		19.04		19.6
100	PI/2 BPSK	135	69		19.05		19.6
100	PI/2 BPSK	135	138		18.91		19.6
100	PI/2 BPSK	270	0		18.98		
100	QPSK	1	1		19.13		19.6
100	QPSK	1	137		18.46		
100	QPSK	1	271		19.10		
100	QPSK	135	0		19.00		19.6
100	QPSK	135	69		19.03		19.6
100	QPSK	135	138		18.88		19.6
100	QPSK	270	0		18.97		
100	16QAM	1	1		19.07		19.6
100	64QAM	1	1		18.97		19.6
100	256QAM	1	1		18.94		19.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.94	18.95	18.87	19.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.86	18.89	18.83	19.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.86	18.91	18.85	19.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.86	18.87	18.80	19.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.89	18.92	18.79	19.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.88	18.89	18.84	19.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.86	18.91	18.84	19.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.87	18.90	18.80	19.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.87	18.90	18.83	19.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.87	18.89	18.80	19.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.88	18.89	18.79	19.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.50		27.3
100	PI/2 BPSK	1	137		25.47		
100	PI/2 BPSK	1	271		25.41		
100	PI/2 BPSK	135	0		25.45		26.8
100	PI/2 BPSK	135	69		25.92		27.3
100	PI/2 BPSK	135	138		25.39		26.8
100	PI/2 BPSK	270	0		25.38		
100	QPSK	1	1		25.44		27.3
100	QPSK	1	137		25.48		
100	QPSK	1	271		25.46		
100	QPSK	135	0		24.92		26.3
100	QPSK	135	69		25.91		27.3
100	QPSK	135	138		24.87		26.3
100	QPSK	270	0		24.86		
100	16QAM	1	1		24.44		26.3
100	64QAM	1	1		22.89		24.8
100	256QAM	1	1		20.98		22.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.47	25.48	25.44	27.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.37	25.38	25.42	27.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.37	25.41	25.42	27.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.44	25.44	25.43	27.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.38	25.42	25.43	27.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.43	25.40	25.36	27.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.38	25.47	25.37	27.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.38	25.43	25.38	27.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.43	25.39	25.34	27.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.46	25.44	25.35	27.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.44	25.40	25.39	27.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		18.3
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.38		18.3
100	PI/2 BPSK	1	137		17.18		
100	PI/2 BPSK	1	271		16.42		
100	PI/2 BPSK	135	0		17.14		18.3
100	PI/2 BPSK	135	69		17.24		18.3
100	PI/2 BPSK	135	138		16.78		18.3
100	PI/2 BPSK	270	0		17.07		
100	QPSK	1	1		17.33		18.3
100	QPSK	1	137		17.13		
100	QPSK	1	271		16.40		
100	QPSK	135	0		17.20		18.3
100	QPSK	135	69		17.12		18.3
100	QPSK	135	138		16.75		18.3
100	QPSK	270	0		17.06		
100	16QAM	1	1		17.32		18.3
100	64QAM	1	1		17.25		18.3
100	256QAM	1	1		17.22		18.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.31	17.27	17.31	18.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.27	17.29	17.29	18.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.27	17.24	17.26	18.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.28	17.35	17.27	18.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.22	17.34	17.21	18.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.30	17.33	17.34	18.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.26	17.32	17.31	18.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.27	17.29	17.21	18.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.27	17.27	17.24	18.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.22	17.26	17.29	18.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.21	17.32	17.24	18.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.50		27.3
100	PI/2 BPSK	1	137		25.47		
100	PI/2 BPSK	1	271		25.41		
100	PI/2 BPSK	135	0		25.45		26.8
100	PI/2 BPSK	135	69		25.92		27.3
100	PI/2 BPSK	135	138		25.39		26.8
100	PI/2 BPSK	270	0		25.38		
100	QPSK	1	1		25.44		27.3
100	QPSK	1	137		25.48		
100	QPSK	1	271		25.46		
100	QPSK	135	0		24.92		26.3
100	QPSK	135	69		25.91		27.3
100	QPSK	135	138		24.87		26.3
100	QPSK	270	0		24.86		
100	16QAM	1	1		24.44		26.3
100	64QAM	1	1		22.89		24.8
100	256QAM	1	1		20.98		22.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.47	25.48	25.44	27.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.37	25.38	25.42	27.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.37	25.41	25.42	27.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.44	25.44	25.43	27.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.38	25.42	25.43	27.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.43	25.40	25.36	27.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.38	25.47	25.37	27.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.38	25.43	25.38	27.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.43	25.39	25.34	27.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.46	25.44	25.35	27.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.44	25.40	25.39	27.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		16.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.60		16.7
100	PI/2 BPSK	1	137		16.43		
100	PI/2 BPSK	1	271		15.81		
100	PI/2 BPSK	135	0		16.48		16.7
100	PI/2 BPSK	135	69		16.39		16.7
100	PI/2 BPSK	135	138		16.11		16.7
100	PI/2 BPSK	270	0		16.36		
100	QPSK	1	1		16.58		16.7
100	QPSK	1	137		16.41		
100	QPSK	1	271		15.79		
100	QPSK	135	0		16.43		16.7
100	QPSK	135	69		16.37		16.7
100	QPSK	135	138		16.10		16.7
100	QPSK	270	0		16.34		
100	16QAM	1	1		16.56		16.7
100	64QAM	1	1		16.48		16.7
100	256QAM	1	1		16.57		16.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.53	16.57	16.59	16.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.45	16.49	16.52	16.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.48	16.50	16.49	16.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.44	16.49	16.50	16.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.43	16.47	16.54	16.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.43	16.47	16.51	16.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.48	16.47	16.54	16.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.45	16.49	16.50	16.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.45	16.52	16.52	16.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.43	16.50	16.50	16.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.44	16.47	16.52	16.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		23.9
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.53		
100	PI/2 BPSK	1	137		22.51		23.9
100	PI/2 BPSK	1	271		22.47		
100	PI/2 BPSK	135	0		22.80		
100	PI/2 BPSK	135	69		22.80		23.9
100	PI/2 BPSK	135	138		22.71		
100	PI/2 BPSK	270	0		22.73		
100	QPSK	1	1		22.26		23.9
100	QPSK	1	137		22.34		
100	QPSK	1	271		22.24		
100	QPSK	135	0		22.62		23.9
100	QPSK	135	69		22.66		
100	QPSK	135	138		22.68		
100	QPSK	270	0		22.66		23.9
100	16QAM	1	1		22.33		
100	64QAM	1	1		22.31		
100	256QAM	1	1		20.81		22.8
Channel				633000	633332	633666	23.9
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.35	22.45	22.44	
Channel				632668	633332	634000	23.9
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.35	22.46	22.42	
Channel				632334	633332	634332	23.9
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.36	22.44	22.45	
Channel				632000	633332	634666	23.9
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.37	22.43	22.42	
Channel				631668	633332	635000	23.9
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.39	22.45	22.44	
Channel				631334	633332	635332	23.9
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.38	22.47	22.43	
Channel				631000	633332	635666	23.9
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.37	22.46	22.43	
Channel				630834	633332	635832	23.9
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.38	22.44	22.40	
Channel				630668	633332	636000	23.9
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.40	22.44	22.40	
Channel				630500	633332	636166	23.9
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.39	22.47	22.45	
Channel				630334	633332	636332	23.9
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.40	22.45	22.42	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.27		22.5
100	PI/2 BPSK	1	137		22.20		
100	PI/2 BPSK	1	271		21.58		
100	PI/2 BPSK	135	0		22.10		22.5
100	PI/2 BPSK	135	69		22.11		22.5
100	PI/2 BPSK	135	138		21.93		22.5
100	PI/2 BPSK	270	0		21.97		
100	QPSK	1	1		22.20		22.5
100	QPSK	1	137		22.02		
100	QPSK	1	271		21.61		
100	QPSK	135	0		22.08		22.5
100	QPSK	135	69		22.14		22.5
100	QPSK	135	138		21.93		22.5
100	QPSK	270	0		21.97		
100	16QAM	1	1		22.15		22.5
100	64QAM	1	1		21.96		22.5
100	256QAM	1	1		20.07		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.14	22.17	22.16	22.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.26	22.11	22.14	22.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.07	22.24	22.00	22.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.23	22.22	22.01	22.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.25	22.24	22.05	22.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.24	22.12	22.12	22.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.21	22.08	22.09	22.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.17	22.08	22.14	22.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.08	22.20	22.04	22.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.18	22.09	22.02	22.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.11	22.25	22.08	22.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.53		23.9
100	PI/2 BPSK	1	137		22.51		
100	PI/2 BPSK	1	271		22.47		
100	PI/2 BPSK	135	0		22.80		23.9
100	PI/2 BPSK	135	69		22.80		23.9
100	PI/2 BPSK	135	138		22.71		23.9
100	PI/2 BPSK	270	0		22.73		
100	QPSK	1	1		22.26		23.9
100	QPSK	1	137		22.34		
100	QPSK	1	271		22.24		
100	QPSK	135	0		22.62		23.9
100	QPSK	135	69		22.66		23.9
100	QPSK	135	138		22.68		23.9
100	QPSK	270	0		22.66		
100	16QAM	1	1		22.33		23.9
100	64QAM	1	1		22.31		23.9
100	256QAM	1	1		20.81		22.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.35	22.45	22.44	23.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.35	22.46	22.42	23.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.36	22.44	22.45	23.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.37	22.43	22.42	23.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.39	22.45	22.44	23.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.38	22.47	22.43	23.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.37	22.46	22.43	23.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.38	22.44	22.40	23.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.40	22.44	22.40	23.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.39	22.47	22.45	23.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.40	22.45	22.42	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.43		25.4
100	PI/2 BPSK	1	137		24.36		
100	PI/2 BPSK	1	271		23.61		
100	PI/2 BPSK	135	0		23.86		25.4
100	PI/2 BPSK	135	69		24.37		25.4
100	PI/2 BPSK	135	138		23.50		25.4
100	PI/2 BPSK	270	0		23.74		
100	QPSK	1	1		24.40		25.4
100	QPSK	1	137		24.28		
100	QPSK	1	271		23.61		
100	QPSK	135	0		23.28		25.0
100	QPSK	135	69		24.26		25.4
100	QPSK	135	138		23.00		25.0
100	QPSK	270	0		23.18		
100	16QAM	1	1		23.43		25.0
100	64QAM	1	1		21.68		23.5
100	256QAM	1	1		19.75		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.27	24.42	24.39	25.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.24	24.38	24.36	25.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.24	24.38	24.36	25.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.24	24.37	24.34	25.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.24	24.39	24.35	25.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.24	24.37	24.33	25.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.23	24.37	24.35	25.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.22	24.39	24.34	25.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.23	24.37	24.35	25.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.22	24.37	24.34	25.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.24	24.38	24.33	25.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.53		23.9
100	PI/2 BPSK	1	137		22.51		
100	PI/2 BPSK	1	271		22.47		
100	PI/2 BPSK	135	0		22.80		23.9
100	PI/2 BPSK	135	69		22.80		23.9
100	PI/2 BPSK	135	138		22.71		23.9
100	PI/2 BPSK	270	0		22.73		
100	QPSK	1	1		22.26		23.9
100	QPSK	1	137		22.34		
100	QPSK	1	271		22.24		
100	QPSK	135	0		22.62		23.9
100	QPSK	135	69		22.66		23.9
100	QPSK	135	138		22.68		23.9
100	QPSK	270	0		22.66		
100	16QAM	1	1		22.33		23.9
100	64QAM	1	1		22.31		23.9
100	256QAM	1	1		20.81		22.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.35	22.45	22.44	23.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.35	22.46	22.42	23.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.36	22.44	22.45	23.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.37	22.43	22.42	23.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.39	22.45	22.44	23.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.38	22.47	22.43	23.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.37	22.46	22.43	23.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.38	22.44	22.40	23.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.40	22.44	22.40	23.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.39	22.47	22.45	23.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.40	22.45	22.42	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.27		22.5
100	PI/2 BPSK	1	137		22.20		
100	PI/2 BPSK	1	271		21.58		
100	PI/2 BPSK	135	0		22.10		22.5
100	PI/2 BPSK	135	69		22.11		22.5
100	PI/2 BPSK	135	138		21.93		22.5
100	PI/2 BPSK	270	0		21.97		
100	QPSK	1	1		22.20		22.5
100	QPSK	1	137		22.02		
100	QPSK	1	271		21.61		
100	QPSK	135	0		22.08		22.5
100	QPSK	135	69		22.14		22.5
100	QPSK	135	138		21.93		22.5
100	QPSK	270	0		21.97		
100	16QAM	1	1		22.15		22.5
100	64QAM	1	1		21.96		22.5
100	256QAM	1	1		20.07		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.14	22.17	22.16	22.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.26	22.11	22.14	22.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.07	22.24	22.00	22.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.23	22.22	22.01	22.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.25	22.24	22.05	22.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.24	22.12	22.12	22.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.21	22.08	22.09	22.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.17	22.08	22.14	22.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.08	22.20	22.04	22.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.18	22.09	22.02	22.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.11	22.25	22.08	22.5



TX1 Output Power

<FR1 n2_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.58	23.59	23.41	24.5
20	PI/2 BPSK	1	53	23.57	23.52	23.30	
20	PI/2 BPSK	1	104	23.43	23.32	23.14	
20	PI/2 BPSK	50	0	23.02	22.96	22.84	24.0
20	PI/2 BPSK	50	28	23.52	23.54	23.24	24.5
20	PI/2 BPSK	50	56	23.01	22.90	22.67	24.0
20	PI/2 BPSK	100	0	23.02	23.05	22.73	
20	QPSK	1	1	23.57	23.47	23.41	24.5
20	QPSK	1	53	23.56	23.46	23.39	
20	QPSK	1	104	23.42	23.28	23.10	
20	QPSK	50	0	22.56	22.46	22.32	23.5
20	QPSK	50	28	23.52	23.45	23.27	24.5
20	QPSK	50	56	22.51	22.35	22.19	23.5
20	QPSK	100	0	22.54	22.43	22.24	
20	16QAM	1	1	22.38	22.64	22.50	23.5
20	64QAM	1	1	21.12	21.10	20.93	22.0
20	256QAM	1	1	19.14	18.87	18.62	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.52	23.50	23.32	24.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.53	23.45	23.34	24.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.53	23.47	23.34	24.5



<FR1 n2_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.58	23.59	23.41	24.5
20	PI/2 BPSK	1	53	23.57	23.52	23.30	
20	PI/2 BPSK	1	104	23.43	23.32	23.14	
20	PI/2 BPSK	50	0	23.02	22.96	22.84	24.0
20	PI/2 BPSK	50	28	23.52	23.54	23.24	24.5
20	PI/2 BPSK	50	56	23.01	22.90	22.67	24.0
20	PI/2 BPSK	100	0	23.02	23.05	22.73	
20	QPSK	1	1	23.57	23.47	23.41	24.5
20	QPSK	1	53	23.56	23.46	23.39	
20	QPSK	1	104	23.42	23.28	23.10	
20	QPSK	50	0	22.56	22.46	22.32	23.5
20	QPSK	50	28	23.52	23.45	23.27	24.5
20	QPSK	50	56	22.51	22.35	22.19	23.5
20	QPSK	100	0	22.54	22.43	22.24	
20	16QAM	1	1	22.38	22.64	22.50	23.5
20	64QAM	1	1	21.12	21.10	20.93	22.0
20	256QAM	1	1	19.14	18.87	18.62	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.52	23.50	23.32	24.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.53	23.45	23.34	24.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.53	23.47	23.34	24.5



<FR1 n2_Ant 0_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.93	20.96	20.94	22.0
20	PI/2 BPSK	1	53	20.92	20.95	20.93	
20	PI/2 BPSK	1	104	20.77	20.82	20.75	
20	PI/2 BPSK	50	0	20.91	21.01	20.90	22.0
20	PI/2 BPSK	50	28	20.92	21.02	20.96	22.0
20	PI/2 BPSK	50	56	20.88	20.89	20.85	22.0
20	PI/2 BPSK	100	0	20.84	20.95	20.87	
20	QPSK	1	1	20.91	20.94	20.89	22.0
20	QPSK	1	53	20.88	20.89	20.78	
20	QPSK	1	104	20.65	20.73	20.71	
20	QPSK	50	0	20.82	20.93	20.84	22.0
20	QPSK	50	28	20.86	20.97	20.86	22.0
20	QPSK	50	56	20.78	20.80	20.71	22.0
20	QPSK	100	0	20.90	20.94	20.93	
20	16QAM	1	1	20.86	20.94	20.83	22.0
20	64QAM	1	1	20.98	21.00	20.99	22.0
20	256QAM	1	1	18.76	18.81	18.70	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.92	20.86	20.87	22.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	20.92	20.91	20.88	22.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.85	20.94	20.85	22.0



<FR1 n2_Ant 0_Index 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				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.58	23.59	23.41	23.7
20	PI/2 BPSK	1	53	23.57	23.52	23.30	
20	PI/2 BPSK	1	104	23.43	23.32	23.14	
20	PI/2 BPSK	50	0	23.02	22.96	22.84	23.7
20	PI/2 BPSK	50	28	23.52	23.54	23.24	23.7
20	PI/2 BPSK	50	56	23.01	22.90	22.67	23.7
20	PI/2 BPSK	100	0	23.02	23.05	22.73	
20	QPSK	1	1	23.57	23.47	23.41	23.7
20	QPSK	1	53	23.56	23.46	23.39	
20	QPSK	1	104	23.42	23.28	23.10	
20	QPSK	50	0	22.56	22.46	22.32	23.5
20	QPSK	50	28	23.52	23.45	23.27	23.7
20	QPSK	50	56	22.51	22.35	22.19	23.5
20	QPSK	100	0	22.54	22.43	22.24	
20	16QAM	1	1	22.38	22.64	22.50	23.5
20	64QAM	1	1	21.12	21.10	20.93	22.0
20	256QAM	1	1	19.14	18.87	18.62	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.52	23.50	23.32	23.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.53	23.45	23.34	23.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.53	23.47	23.34	23.7



<FR1 n2_Ant 0_Index 6>

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	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.93	20.96	20.94	22.0
20	PI/2 BPSK	1	53	20.92	20.95	20.93	
20	PI/2 BPSK	1	104	20.77	20.82	20.75	
20	PI/2 BPSK	50	0	20.91	21.01	20.90	22.0
20	PI/2 BPSK	50	28	20.92	21.02	20.96	22.0
20	PI/2 BPSK	50	56	20.88	20.89	20.85	22.0
20	PI/2 BPSK	100	0	20.84	20.95	20.87	
20	QPSK	1	1	20.91	20.94	20.89	22.0
20	QPSK	1	53	20.88	20.89	20.78	
20	QPSK	1	104	20.65	20.73	20.71	
20	QPSK	50	0	20.82	20.93	20.84	22.0
20	QPSK	50	28	20.86	20.97	20.86	22.0
20	QPSK	50	56	20.78	20.80	20.71	22.0
20	QPSK	100	0	20.90	20.94	20.93	
20	16QAM	1	1	20.86	20.94	20.83	22.0
20	64QAM	1	1	20.98	21.00	20.99	22.0
20	256QAM	1	1	18.76	18.81	18.70	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.92	20.86	20.87	22.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	20.92	20.91	20.88	22.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.85	20.94	20.85	22.0



<FR1 n5_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	21.5
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	19.88	19.94	19.91	
20	PI/2 BPSK	1	53	19.82	19.90	19.87	21.5
20	PI/2 BPSK	1	104	19.76	19.81	19.77	
20	PI/2 BPSK	50	0	19.75	19.83	19.79	
20	PI/2 BPSK	50	28	19.81	19.86	19.82	21.5
20	PI/2 BPSK	50	56	19.77	19.85	19.81	21.5
20	PI/2 BPSK	100	0	19.75	19.83	19.81	
20	QPSK	1	1	19.82	19.89	19.87	
20	QPSK	1	53	19.83	19.89	19.85	21.5
20	QPSK	1	104	19.80	19.85	19.82	
20	QPSK	50	0	19.79	19.85	19.81	
20	QPSK	50	28	19.77	19.85	19.80	21.5
20	QPSK	50	56	19.76	19.84	19.80	21.5
20	QPSK	100	0	19.78	19.83	19.79	
20	16QAM	1	1	19.85	19.90	19.86	
20	64QAM	1	1	19.87	19.92	19.90	21.5
20	256QAM	1	1	19.59	19.65	19.60	20.7
Channel				166300	167300	168300	21.5
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	19.83	19.84	19.85	
Channel				165800	167300	168800	21.5
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	19.83	19.87	19.83	
Channel				165300	167300	169300	21.5
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	19.79	19.84	19.84	



<FR1 n5_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	19.8
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	18.52	18.61	18.56	
20	PI/2 BPSK	1	53	18.50	18.55	18.53	19.8
20	PI/2 BPSK	1	104	18.42	18.47	18.40	
20	PI/2 BPSK	50	0	18.40	18.51	18.42	
20	PI/2 BPSK	50	28	18.45	18.52	18.48	19.8
20	PI/2 BPSK	50	56	18.43	18.50	18.46	19.8
20	PI/2 BPSK	100	0	18.39	18.46	18.44	
20	QPSK	1	1	18.44	18.52	18.53	
20	QPSK	1	53	18.47	18.52	18.51	19.8
20	QPSK	1	104	18.45	18.47	18.49	
20	QPSK	50	0	18.44	18.51	18.45	
20	QPSK	50	28	18.41	18.47	18.44	19.8
20	QPSK	50	56	18.39	18.49	18.42	19.8
20	QPSK	100	0	18.41	18.49	18.43	
20	16QAM	1	1	18.49	18.56	18.49	
20	64QAM	1	1	18.49	18.57	18.57	19.8
20	256QAM	1	1	18.21	18.27	18.25	19.8
Channel				166300	167300	168300	19.8
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	18.49	18.58	18.51	
Channel				165800	167300	168800	19.8
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	18.45	18.53	18.50	
Channel				165300	167300	169300	19.8
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	18.44	18.59	18.52	



<FR1 n5_Ant 1_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	23.1
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	21.93	21.98	21.86	
20	PI/2 BPSK	1	53	21.82	21.92	21.88	23.1
20	PI/2 BPSK	1	104	21.91	21.94	21.92	
20	PI/2 BPSK	50	0	21.76	21.87	21.86	
20	PI/2 BPSK	50	28	21.81	21.95	21.87	23.1
20	PI/2 BPSK	50	56	21.88	21.94	21.93	23.1
20	PI/2 BPSK	100	0	21.77	21.93	21.89	
20	QPSK	1	1	21.94	21.90	21.88	
20	QPSK	1	53	21.83	21.88	21.77	23.1
20	QPSK	1	104	21.88	21.95	21.93	
20	QPSK	50	0	21.94	21.92	21.92	
20	QPSK	50	28	21.88	21.98	21.88	23.1
20	QPSK	50	56	21.90	21.86	21.86	23.1
20	QPSK	100	0	21.83	21.88	21.81	
20	16QAM	1	1	21.86	21.88	21.86	
20	64QAM	1	1	21.87	21.86	21.76	22.7
20	256QAM	1	1	19.85	19.91	19.86	20.7
Channel				166300	167300	168300	23.1
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	21.85	21.94	21.77	
Channel				165800	167300	168800	23.1
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	21.84	21.92	21.81	
Channel				165300	167300	169300	23.1
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	21.87	21.95	21.79	



<FR1 n5_Ant 1_Index 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				166800	167300	167800	25.2
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.60	24.67	24.62	
20	PI/2 BPSK	1	53	24.55	24.64	24.61	24.7
20	PI/2 BPSK	1	104	24.47	24.55	24.51	
20	PI/2 BPSK	50	0	23.98	24.08	24.05	
20	PI/2 BPSK	50	28	24.56	24.62	24.52	24.7
20	PI/2 BPSK	50	56	24.04	24.11	24.09	
20	PI/2 BPSK	100	0	24.07	24.10	24.04	
20	QPSK	1	1	24.51	24.60	24.52	25.2
20	QPSK	1	53	24.58	24.64	24.55	
20	QPSK	1	104	24.52	24.56	24.54	
20	QPSK	50	0	23.53	23.59	23.49	24.2
20	QPSK	50	28	24.52	24.61	24.51	
20	QPSK	50	56	23.57	23.62	23.62	
20	QPSK	100	0	23.53	23.61	23.56	22.7
20	16QAM	1	1	23.28	23.32	23.23	
20	64QAM	1	1	21.98	22.05	22.02	
20	256QAM	1	1	20.03	20.07	20.05	20.7
Channel				166300	167300	168300	25.2
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.52	24.60	24.62	
Channel				165800	167300	168800	25.2
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.60	24.57	24.56	
Channel				165300	167300	169300	25.2
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.58	24.61	24.52	



<FR1 n5_Ant 1_Index 6>

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	23.1
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	21.93	21.98	21.86	
20	PI/2 BPSK	1	53	21.82	21.92	21.88	23.1
20	PI/2 BPSK	1	104	21.91	21.94	21.92	
20	PI/2 BPSK	50	0	21.76	21.87	21.86	
20	PI/2 BPSK	50	28	21.81	21.95	21.87	23.1
20	PI/2 BPSK	50	56	21.88	21.94	21.93	23.1
20	PI/2 BPSK	100	0	21.77	21.93	21.89	
20	QPSK	1	1	21.94	21.90	21.88	
20	QPSK	1	53	21.83	21.88	21.77	23.1
20	QPSK	1	104	21.88	21.95	21.93	
20	QPSK	50	0	21.94	21.92	21.92	
20	QPSK	50	28	21.88	21.98	21.88	23.1
20	QPSK	50	56	21.90	21.86	21.86	23.1
20	QPSK	100	0	21.83	21.88	21.81	
20	16QAM	1	1	21.86	21.88	21.86	
20	64QAM	1	1	21.87	21.86	21.76	22.7
20	256QAM	1	1	19.85	19.91	19.86	20.7
Channel				166300	167300	168300	23.1
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	21.85	21.94	21.77	
Channel				165800	167300	168800	23.1
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	21.84	21.92	21.81	
Channel				165300	167300	169300	23.1
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	21.87	21.95	21.79	



<FR1 n7_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	25.2
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.40	24.47	24.42	
50	PI/2 BPSK	1	135	24.34	24.44	24.40	24.7
50	PI/2 BPSK	1	268	24.21	24.21	24.14	
50	PI/2 BPSK	135	0	23.78	23.79	23.77	
50	PI/2 BPSK	135	68	24.32	24.33	24.31	25.2
50	PI/2 BPSK	135	135	23.77	23.80	23.75	24.7
50	PI/2 BPSK	270	0	23.78	23.84	23.81	
50	QPSK	1	1	24.35	24.37	24.35	
50	QPSK	1	135	24.39	24.41	24.33	25.2
50	QPSK	1	268	24.26	24.28	24.21	
50	QPSK	135	0	23.21	23.31	23.23	
50	QPSK	135	68	24.29	24.33	24.28	24.2
50	QPSK	135	135	23.20	23.28	23.26	25.2
50	QPSK	270	0	23.31	23.38	23.31	
50	16QAM	1	1	23.18	23.18	23.17	
50	64QAM	1	1	22.02	22.10	22.01	24.2
50	256QAM	1	1	19.62	19.71	19.70	22.7
Channel				504000	507000	510000	20.7
Frequency (MHz)				2520	2535	2550	25.2
40	PI/2 BPSK	1	1	24.32	24.39	24.39	
Channel				503000	507000	511000	25.2
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	24.33	24.45	24.34	
Channel				502500	507000	511500	25.2
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	24.30	24.46	24.37	
Channel				502000	507000	512000	25.2
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	24.39	24.43	24.37	
Channel				501500	507000	512500	25.2
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	24.39	24.42	24.32	
Channel				501000	507000	513000	25.2
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	24.38	24.41	24.32	
Channel				500500	507000	513500	25.2
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	24.39	24.45	24.42	



<FR1 n7_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	24.8
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.40	24.47	24.42	
50	PI/2 BPSK	1	135	24.34	24.44	24.40	24.7
50	PI/2 BPSK	1	268	24.21	24.21	24.14	
50	PI/2 BPSK	135	0	23.78	23.79	23.77	
50	PI/2 BPSK	135	68	24.32	24.33	24.31	24.7
50	PI/2 BPSK	135	135	23.77	23.80	23.75	
50	PI/2 BPSK	270	0	23.78	23.84	23.81	
50	QPSK	1	1	24.35	24.37	24.35	24.8
50	QPSK	1	135	24.39	24.41	24.33	
50	QPSK	1	268	24.26	24.28	24.21	
50	QPSK	135	0	23.21	23.31	23.23	24.2
50	QPSK	135	68	24.29	24.33	24.28	
50	QPSK	135	135	23.20	23.28	23.26	
50	QPSK	270	0	23.31	23.38	23.31	22.7
50	16QAM	1	1	23.18	23.18	23.17	
50	64QAM	1	1	22.02	22.10	22.01	
50	256QAM	1	1	19.62	19.71	19.70	20.7
Channel				504000	507000	510000	24.8
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	24.32	24.39	24.39	
Channel				503000	507000	511000	24.8
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	24.33	24.45	24.34	
Channel				502500	507000	511500	24.8
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	24.30	24.46	24.37	
Channel				502000	507000	512000	24.8
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	24.39	24.43	24.37	
Channel				501500	507000	512500	24.8
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	24.39	24.42	24.32	
Channel				501000	507000	513000	24.8
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	24.38	24.41	24.32	
Channel				500500	507000	513500	24.8
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	24.39	24.45	24.42	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	20.6
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	19.94	19.96	19.94	
50	PI/2 BPSK	1	135	19.91	19.93	19.91	20.6
50	PI/2 BPSK	1	268	19.80	19.82	19.80	
50	PI/2 BPSK	135	0	19.79	19.81	19.79	
50	PI/2 BPSK	135	68	19.83	19.85	19.83	20.6
50	PI/2 BPSK	135	135	19.75	19.77	19.75	20.6
50	PI/2 BPSK	270	0	19.83	19.85	19.83	
50	QPSK	1	1	19.91	19.93	19.91	
50	QPSK	1	135	19.89	19.91	19.89	20.6
50	QPSK	1	268	19.77	19.79	19.77	
50	QPSK	135	0	19.78	19.80	19.78	
50	QPSK	135	68	19.80	19.82	19.80	20.6
50	QPSK	135	135	19.73	19.75	19.73	20.6
50	QPSK	270	0	19.79	19.81	19.79	
50	16QAM	1	1	19.91	19.93	19.91	
50	64QAM	1	1	19.89	19.91	19.89	20.6
50	256QAM	1	1	19.60	19.63	19.61	20.6
Channel				504000	507000	20	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	19.80	19.86	19.84	
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	19.88	19.81	19.83	
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	19.85	19.87	19.82	
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	19.87	19.81	19.84	
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	19.83	19.84	19.88	
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	19.86	19.89	19.87	
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	19.89	19.82	19.84	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	23.6
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	22.15	22.18	22.10	
50	PI/2 BPSK	1	135	22.05	22.17	22.03	23.6
50	PI/2 BPSK	1	268	22.11	22.15	22.10	
50	PI/2 BPSK	135	0	22.11	22.15	22.00	
50	PI/2 BPSK	135	68	22.10	22.20	22.05	23.6
50	PI/2 BPSK	135	135	22.03	22.18	22.08	23.6
50	PI/2 BPSK	270	0	22.21	22.25	22.16	
50	QPSK	1	1	22.09	22.13	21.98	
50	QPSK	1	135	21.96	22.11	21.97	23.6
50	QPSK	1	268	21.98	22.06	21.99	
50	QPSK	135	0	22.08	22.12	21.97	
50	QPSK	135	68	22.01	22.16	22.12	23.6
50	QPSK	135	135	22.02	22.15	22.00	23.6
50	QPSK	270	0	22.20	22.22	22.15	
50	16QAM	1	1	22.11	22.20	22.19	
50	64QAM	1	1	21.70	21.80	21.68	22.7
50	256QAM	1	1	19.56	19.65	19.58	20.7
Channel				504000	507000	510000	23.6
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	22.11	22.06	22.07	
Channel				503000	507000	511000	23.6
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	22.01	22.12	21.99	
Channel				502500	507000	511500	23.6
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	22.02	22.12	22.03	
Channel				502000	507000	512000	23.6
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	22.10	22.08	22.02	
Channel				501500	507000	512500	23.6
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	22.00	22.06	22.04	
Channel				501000	507000	513000	23.6
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	22.04	22.15	21.97	
Channel				500500	507000	513500	23.6
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	22.05	22.07	22.06	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	20.6
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	19.94	19.96	19.94	
50	PI/2 BPSK	1	135	19.91	19.93	19.91	20.6
50	PI/2 BPSK	1	268	19.80	19.82	19.80	
50	PI/2 BPSK	135	0	19.79	19.81	19.79	
50	PI/2 BPSK	135	68	19.83	19.85	19.83	20.6
50	PI/2 BPSK	135	135	19.75	19.77	19.75	20.6
50	PI/2 BPSK	270	0	19.83	19.85	19.83	
50	QPSK	1	1	19.91	19.93	19.91	
50	QPSK	1	135	19.89	19.91	19.89	20.6
50	QPSK	1	268	19.77	19.79	19.77	
50	QPSK	135	0	19.78	19.80	19.78	
50	QPSK	135	68	19.80	19.82	19.80	20.6
50	QPSK	135	135	19.73	19.75	19.73	20.6
50	QPSK	270	0	19.79	19.81	19.79	
50	16QAM	1	1	19.91	19.93	19.91	
50	64QAM	1	1	19.89	19.91	19.89	20.6
50	256QAM	1	1	19.60	19.63	19.61	20.6
Channel				504000	507000	20	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	19.80	19.86	19.84	
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	19.88	19.81	19.83	
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	19.85	19.87	19.82	
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	19.87	19.81	19.84	
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	19.83	19.84	19.88	
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	19.86	19.89	19.87	
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	19.89	19.82	19.84	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	20.43	20.47	20.39	
15	PI/2 BPSK	1	40	20.35	20.39	20.34	22.1
15	PI/2 BPSK	1	77	20.37	20.42	20.37	
15	PI/2 BPSK	36	0	20.34	20.38	20.33	
15	PI/2 BPSK	36	22	20.41	20.46	20.39	22.1
15	PI/2 BPSK	36	43	20.40	20.45	20.38	22.1
15	PI/2 BPSK	75	0	20.41	20.46	20.39	
15	QPSK	1	1	20.40	20.45	20.37	
15	QPSK	1	40	20.41	20.43	20.35	22.1
15	QPSK	1	77	20.40	20.45	20.39	
15	QPSK	36	0	20.35	20.37	20.32	
15	QPSK	36	22	20.39	20.43	20.35	22.1
15	QPSK	36	43	20.37	20.41	20.33	22.1
15	QPSK	75	0	20.41	20.43	20.36	
15	16QAM	1	1	20.33	20.38	20.32	
15	64QAM	1	1	20.39	20.42	20.37	22.1
15	256QAM	1	1	19.37	19.42	19.34	20.7
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	20.34	20.39	20.32	
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	20.37	20.38	20.30	

<FR1 n12_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	20.43	20.47	20.39	
15	PI/2 BPSK	1	40	20.35	20.39	20.34	20.5
15	PI/2 BPSK	1	77	20.37	20.42	20.37	
15	PI/2 BPSK	36	0	20.34	20.38	20.33	
15	PI/2 BPSK	36	22	20.41	20.46	20.39	20.5
15	PI/2 BPSK	36	43	20.40	20.45	20.38	20.5
15	PI/2 BPSK	75	0	20.41	20.46	20.39	
15	QPSK	1	1	20.40	20.45	20.37	
15	QPSK	1	40	20.41	20.43	20.35	20.5
15	QPSK	1	77	20.40	20.45	20.39	
15	QPSK	36	0	20.35	20.37	20.32	
15	QPSK	36	22	20.39	20.43	20.35	20.5
15	QPSK	36	43	20.37	20.41	20.33	20.5
15	QPSK	75	0	20.41	20.43	20.36	
15	16QAM	1	1	20.33	20.38	20.32	
15	64QAM	1	1	20.39	20.42	20.37	20.5
15	256QAM	1	1	19.37	19.42	19.34	20.3
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	20.34	20.39	20.32	
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	20.37	20.38	20.30	



<FR1 n12_Ant 1_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.00	24.02	23.94	
15	PI/2 BPSK	1	40	23.88	23.93	23.88	25.2
15	PI/2 BPSK	1	77	23.98	24.00	23.91	
15	PI/2 BPSK	36	0	23.42	23.43	23.38	24.7
15	PI/2 BPSK	36	22	23.90	23.98	23.92	25.2
15	PI/2 BPSK	36	43	23.56	23.56	23.53	24.7
15	PI/2 BPSK	75	0	23.43	23.50	23.49	
15	QPSK	1	1	23.95	23.98	23.90	25.2
15	QPSK	1	40	23.95	23.95	23.90	
15	QPSK	1	77	23.97	24.00	23.93	
15	QPSK	36	0	22.85	22.94	22.93	24.2
15	QPSK	36	22	23.95	24.00	23.94	25.2
15	QPSK	36	43	23.00	23.05	23.05	24.2
15	QPSK	75	0	22.92	23.02	22.93	
15	16QAM	1	1	22.82	22.92	22.92	24.2
15	64QAM	1	1	21.64	21.65	21.61	22.7
	256QAM	1	1	19.33	19.40	19.40	20.7
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.91	23.96	23.90	25.2
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.98	24.00	23.93	25.2

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.00	24.02	23.94	
15	PI/2 BPSK	1	40	23.88	23.93	23.88	25.2
15	PI/2 BPSK	1	77	23.98	24.00	23.91	
15	PI/2 BPSK	36	0	23.42	23.43	23.38	24.7
15	PI/2 BPSK	36	22	23.90	23.98	23.92	25.2
15	PI/2 BPSK	36	43	23.56	23.56	23.53	24.7
15	PI/2 BPSK	75	0	23.43	23.50	23.49	
15	QPSK	1	1	23.95	23.98	23.90	25.2
15	QPSK	1	40	23.95	23.95	23.90	
15	QPSK	1	77	23.97	24.00	23.93	
15	QPSK	36	0	22.85	22.94	22.93	24.2
15	QPSK	36	22	23.95	24.00	23.94	25.2
15	QPSK	36	43	23.00	23.05	23.05	24.2
15	QPSK	75	0	22.92	23.02	22.93	
15	16QAM	1	1	22.82	22.92	22.92	24.2
15	64QAM	1	1	21.64	21.65	21.61	22.7
	256QAM	1	1	19.33	19.40	19.40	20.7
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.91	23.96	23.90	25.2
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.98	24.00	23.93	25.2



<FR1 n12_Ant 1_Index 6>

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	25.2
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.00	24.02	23.94	
15	PI/2 BPSK	1	40	23.88	23.93	23.88	24.7
15	PI/2 BPSK	1	77	23.98	24.00	23.91	
15	PI/2 BPSK	36	0	23.42	23.43	23.38	
15	PI/2 BPSK	36	22	23.90	23.98	23.92	24.7
15	PI/2 BPSK	36	43	23.56	23.56	23.53	
15	PI/2 BPSK	75	0	23.43	23.50	23.49	
15	QPSK	1	1	23.95	23.98	23.90	25.2
15	QPSK	1	40	23.95	23.95	23.90	
15	QPSK	1	77	23.97	24.00	23.93	
15	QPSK	36	0	22.85	22.94	22.93	24.2
15	QPSK	36	22	23.95	24.00	23.94	
15	QPSK	36	43	23.00	23.05	23.05	
15	QPSK	75	0	22.92	23.02	22.93	22.7
15	16QAM	1	1	22.82	22.92	22.92	
15	64QAM	1	1	21.64	21.65	21.61	
15	256QAM	1	1	19.33	19.40	19.40	20.7
Channel				140800	141500	142200	25.2
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.91	23.96	23.90	
Channel				140300	141500	142700	25.2
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.98	24.00	23.93	



<FR1 n26_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	21.5
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	19.83	19.90	19.87	
20	PI/2 BPSK	1	53	19.81	19.88	19.83	21.5
20	PI/2 BPSK	1	104	19.72	19.78	19.76	
20	PI/2 BPSK	50	0	19.72	19.77	19.75	
20	PI/2 BPSK	50	28	19.77	19.85	19.80	21.5
20	PI/2 BPSK	50	56	19.73	19.79	19.75	21.5
20	PI/2 BPSK	100	0	19.72	19.78	19.75	
20	QPSK	1	1	19.66	19.72	19.67	
20	QPSK	1	53	19.73	19.81	19.76	21.5
20	QPSK	1	104	19.61	19.69	19.64	
20	QPSK	50	0	19.73	19.81	19.76	
20	QPSK	50	28	19.73	19.80	19.76	21.5
20	QPSK	50	56	19.75	19.82	19.80	21.5
20	QPSK	100	0	19.73	19.81	19.78	
20	16QAM	1	1	19.57	19.65	19.63	
20	64QAM	1	1	19.82	19.89	19.86	21.5
20	256QAM	1	1	19.66	19.73	19.71	20.7
Channel				164300	166300	168300	21.5
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	19.73	19.84	19.81	
Channel				163800	166300	168800	21.5
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	19.76	19.80	19.82	
Channel				163300	166300	169300	21.5
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	19.73	19.84	19.82	



<FR1 n26_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	19.8
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	18.39	18.59	18.49	
20	PI/2 BPSK	1	53	18.45	18.51	18.45	19.8
20	PI/2 BPSK	1	104	18.30	18.36	18.42	
20	PI/2 BPSK	50	0	18.33	18.34	18.39	
20	PI/2 BPSK	50	28	18.35	18.46	18.45	19.8
20	PI/2 BPSK	50	56	18.32	18.38	18.37	19.8
20	PI/2 BPSK	100	0	18.28	18.42	18.41	
20	QPSK	1	1	18.29	18.38	18.34	
20	QPSK	1	53	18.35	18.44	18.44	19.8
20	QPSK	1	104	18.19	18.29	18.29	
20	QPSK	50	0	18.36	18.39	18.43	
20	QPSK	50	28	18.31	18.39	18.39	19.8
20	QPSK	50	56	18.36	18.36	18.45	19.8
20	QPSK	100	0	18.30	18.41	18.40	
20	16QAM	1	1	18.18	18.25	18.28	
20	64QAM	1	1	18.43	18.50	18.49	19.8
20	256QAM	1	1	18.28	18.29	18.36	19.8
Channel				164300	166300	168300	19.8
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	18.37	18.55	18.47	
Channel				163800	166300	168800	19.8
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	18.35	18.53	18.46	
Channel				163300	166300	169300	19.8
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	18.37	18.56	18.42	



<FR1 n26_Ant 1_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	23.1
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	21.97	22.02	21.93	
20	PI/2 BPSK	1	53	21.90	22.00	21.93	23.1
20	PI/2 BPSK	1	104	21.97	22.01	21.99	
20	PI/2 BPSK	50	0	21.84	21.93	21.89	
20	PI/2 BPSK	50	28	21.89	21.99	21.96	23.1
20	PI/2 BPSK	50	56	21.91	21.98	21.95	23.1
20	PI/2 BPSK	100	0	21.87	21.97	21.92	
20	QPSK	1	1	21.98	22.00	21.94	
20	QPSK	1	53	21.91	21.96	21.85	23.1
20	QPSK	1	104	21.96	21.99	21.96	
20	QPSK	50	0	21.97	22.01	21.94	
20	QPSK	50	28	21.93	22.00	21.93	23.1
20	QPSK	50	56	21.94	21.96	21.90	23.1
20	QPSK	100	0	21.92	21.98	21.88	
20	16QAM	1	1	21.93	21.96	21.89	
20	64QAM	1	1	21.91	21.94	21.85	22.7
20	256QAM	1	1	19.92	19.95	19.90	20.7
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	21.85	21.87	21.90	
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	21.91	21.94	21.87	
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	21.93	21.89	21.84	



<FR1 n26_Ant 1_Index 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				164800	166300	167800	25.2
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.61	24.65	24.57	
20	PI/2 BPSK	1	53	24.60	24.64	24.54	24.7
20	PI/2 BPSK	1	104	24.57	24.57	24.48	
20	PI/2 BPSK	50	0	23.99	24.08	24.00	
20	PI/2 BPSK	50	28	24.60	24.64	24.60	24.7
20	PI/2 BPSK	50	56	24.08	24.13	24.08	
20	PI/2 BPSK	100	0	24.02	24.10	24.09	
20	QPSK	1	1	24.49	24.56	24.46	25.2
20	QPSK	1	53	24.52	24.60	24.53	
20	QPSK	1	104	24.48	24.55	24.46	
20	QPSK	50	0	23.52	23.58	23.52	24.2
20	QPSK	50	28	24.56	24.62	24.59	
20	QPSK	50	56	23.57	23.60	23.55	
20	QPSK	100	0	23.56	23.60	23.59	22.7
20	16QAM	1	1	23.69	23.70	23.69	
20	64QAM	1	1	21.95	21.95	21.89	
20	256QAM	1	1	19.97	20.00	19.93	20.7
Channel				164300	166300	168300	25.2
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.56	24.64	24.56	
Channel				163800	166300	168800	25.2
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.57	24.62	24.48	
Channel				163300	166300	169300	25.2
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.58	24.56	24.49	



<FR1 n26_Ant 1_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	21.97	22.02	21.93	23.1
20	PI/2 BPSK	1	53	21.90	22.00	21.93	
20	PI/2 BPSK	1	104	21.97	22.01	21.99	
20	PI/2 BPSK	50	0	21.84	21.93	21.89	23.1
20	PI/2 BPSK	50	28	21.89	21.99	21.96	23.1
20	PI/2 BPSK	50	56	21.91	21.98	21.95	23.1
20	PI/2 BPSK	100	0	21.87	21.97	21.92	
20	QPSK	1	1	21.98	22.00	21.94	23.1
20	QPSK	1	53	21.91	21.96	21.85	
20	QPSK	1	104	21.96	21.99	21.96	
20	QPSK	50	0	21.97	22.01	21.94	23.1
20	QPSK	50	28	21.93	22.00	21.93	23.1
20	QPSK	50	56	21.94	21.96	21.90	23.1
20	QPSK	100	0	21.92	21.98	21.88	
20	16QAM	1	1	21.93	21.96	21.89	23.1
20	64QAM	1	1	21.91	21.94	21.85	22.7
20	256QAM	1	1	19.92	19.95	19.90	20.7
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	21.85	21.87	21.90	23.1
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	21.91	21.94	21.87	23.1
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	21.93	21.89	21.84	23.1



<FR1 n38_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	24.62	24.68	24.65	25.2
20	PI/2 BPSK	1	26	24.52	24.65	24.47	
20	PI/2 BPSK	1	49	24.45	24.62	24.42	
20	PI/2 BPSK	25	0	24.00	24.17	24.04	24.7
20	PI/2 BPSK	25	13	24.47	24.64	24.48	25.2
20	PI/2 BPSK	25	26	23.95	24.11	23.98	24.7
20	PI/2 BPSK	50	0	24.00	24.16	24.06	
20	QPSK	1	1	24.53	24.67	24.51	25.2
20	QPSK	1	26	24.48	24.62	24.50	
20	QPSK	1	49	24.42	24.61	24.41	
20	QPSK	25	0	23.51	23.66	23.50	24.2
20	QPSK	25	13	24.50	24.65	24.49	25.2
20	QPSK	25	26	23.49	23.62	23.43	24.2
20	QPSK	50	0	23.51	23.65	23.47	
20	16QAM	1	1	23.55	23.71	23.59	24.2
20	64QAM	1	1	21.98	22.14	21.97	22.7
20	256QAM	1	1	20.01	20.16	20.00	20.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	24.43	24.51	24.53	25.2
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	24.51	24.53	24.55	25.2

<FR1 n38_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	24.62	24.68	24.65	25.2
20	PI/2 BPSK	1	26	24.52	24.65	24.47	
20	PI/2 BPSK	1	49	24.45	24.62	24.42	
20	PI/2 BPSK	25	0	24.00	24.17	24.04	24.7
20	PI/2 BPSK	25	13	24.47	24.64	24.48	25.2
20	PI/2 BPSK	25	26	23.95	24.11	23.98	24.7
20	PI/2 BPSK	50	0	24.00	24.16	24.06	
20	QPSK	1	1	24.53	24.67	24.51	25.2
20	QPSK	1	26	24.48	24.62	24.50	
20	QPSK	1	49	24.42	24.61	24.41	
20	QPSK	25	0	23.51	23.66	23.50	24.2
20	QPSK	25	13	24.50	24.65	24.49	25.2
20	QPSK	25	26	23.49	23.62	23.43	24.2
20	QPSK	50	0	23.51	23.65	23.47	
20	16QAM	1	1	23.55	23.71	23.59	24.2
20	64QAM	1	1	21.98	22.14	21.97	22.7
20	256QAM	1	1	20.01	20.16	20.00	20.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	24.43	24.51	24.53	25.2
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	24.51	24.53	24.55	25.2

**<FR1 n38_Ant 0_Index 4>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	20.81	20.87	20.84	21.9
20	PI/2 BPSK	1	26	20.78	20.83	20.74	
20	PI/2 BPSK	1	49	20.80	20.85	20.83	
20	PI/2 BPSK	25	0	20.81	20.84	20.79	21.9
20	PI/2 BPSK	25	13	20.82	20.85	20.84	21.9
20	PI/2 BPSK	25	26	20.75	20.82	20.81	21.9
20	PI/2 BPSK	50	0	20.86	20.86	20.79	
20	QPSK	1	1	20.80	20.86	20.86	21.9
20	QPSK	1	26	20.83	20.84	20.74	
20	QPSK	1	49	20.85	20.85	20.80	
20	QPSK	25	0	20.77	20.82	20.78	21.9
20	QPSK	25	13	20.69	20.76	20.70	21.9
20	QPSK	25	26	20.71	20.74	20.65	21.9
20	QPSK	50	0	20.73	20.78	20.77	
20	16QAM	1	1	20.86	20.86	20.78	21.9
20	64QAM	1	1	20.79	20.81	20.71	21.9
20	256QAM	1	1	20.11	20.14	20.03	20.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	20.69	20.79	20.82	21.9
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	20.68	20.72	20.76	21.9

<FR1 n38_Ant 0_Index 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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	23.01	23.04	22.95	24.4
20	PI/2 BPSK	1	26	22.86	22.92	22.80	
20	PI/2 BPSK	1	49	22.90	22.98	22.89	
20	PI/2 BPSK	25	0	22.85	22.82	22.84	24.4
20	PI/2 BPSK	25	13	22.92	22.92	22.91	24.4
20	PI/2 BPSK	25	26	22.90	22.80	22.87	24.4
20	PI/2 BPSK	50	0	22.96	22.84	22.92	
20	QPSK	1	1	22.89	22.96	23.00	24.4
20	QPSK	1	26	22.94	22.84	22.95	
20	QPSK	1	49	22.94	22.97	22.85	
20	QPSK	25	0	22.88	22.91	22.99	24.2
20	QPSK	25	13	22.98	22.85	22.91	24.4
20	QPSK	25	26	22.92	22.81	22.92	24.2
20	QPSK	50	0	22.80	22.83	22.92	
20	16QAM	1	1	22.95	22.99	22.89	24.2
20	64QAM	1	1	22.07	22.11	21.97	22.7
20	256QAM	1	1	20.11	20.14	20.03	20.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	22.93	22.95	22.86	24.4
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	22.94	22.94	22.85	24.4



<FR1 n38_Ant 0_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	20.81	20.87	20.84	21.9
20	PI/2 BPSK	1	26	20.78	20.83	20.74	
20	PI/2 BPSK	1	49	20.80	20.85	20.83	
20	PI/2 BPSK	25	0	20.81	20.84	20.79	21.9
20	PI/2 BPSK	25	13	20.82	20.85	20.84	21.9
20	PI/2 BPSK	25	26	20.75	20.82	20.81	21.9
20	PI/2 BPSK	50	0	20.86	20.86	20.79	
20	QPSK	1	1	20.80	20.86	20.86	21.9
20	QPSK	1	26	20.83	20.84	20.74	
20	QPSK	1	49	20.85	20.85	20.80	
20	QPSK	25	0	20.77	20.82	20.78	21.9
20	QPSK	25	13	20.69	20.76	20.70	21.9
20	QPSK	25	26	20.71	20.74	20.65	21.9
20	QPSK	50	0	20.73	20.78	20.77	
20	16QAM	1	1	20.86	20.86	20.78	21.9
20	64QAM	1	1	20.79	20.81	20.71	21.9
20	256QAM	1	1	20.11	20.14	20.03	20.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	20.69	20.79	20.82	21.9
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	20.68	20.72	20.76	21.9



<FR1 n41_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	25.2
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.75	24.80	24.61	
100	PI/2 BPSK	1	137	24.30	24.44	24.27	24.7
100	PI/2 BPSK	1	271	24.31	24.50	24.34	
100	PI/2 BPSK	135	0	23.87	24.04	23.90	
100	PI/2 BPSK	135	69	24.29	24.44	24.29	25.2
100	PI/2 BPSK	135	138	23.71	23.91	23.81	
100	PI/2 BPSK	270	0	23.76	23.94	23.76	
100	QPSK	1	1	24.68	24.78	24.60	24.2
100	QPSK	1	137	24.22	24.40	24.22	
100	QPSK	1	271	24.38	24.50	24.31	
100	QPSK	135	0	23.40	23.54	23.36	25.2
100	QPSK	135	69	24.31	24.43	24.30	
100	QPSK	135	138	23.22	23.40	23.28	
100	QPSK	270	0	23.30	23.43	23.30	24.2
100	16QAM	1	1	23.64	23.79	23.61	
100	64QAM	1	1	22.12	22.25	22.07	
100	256QAM	1	1	20.14	20.28	20.14	20.7
Channel				508200	518598	528996	25.2
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.62	24.71	24.61	
Channel				507204	518598	529998	25.2
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.63	24.69	24.62	
Channel				506202	518598	531000	25.2
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.66	24.71	24.63	
Channel				505200	518598	531996	25.2
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.52	24.67	24.58	
Channel				504204	518598	532998	25.2
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.52	24.58	24.53	
Channel				503202	518598	534000	25.2
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.55	24.57	24.55	
Channel				502200	518598	534996	25.2
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.51	24.57	24.50	
Channel				501204	518598	535998	25.2
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.41	24.46	24.44	
Channel				500700	518598	536496	25.2
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.42	24.46	24.46	
Channel				500202	518598	537000	25.2
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.43	24.45	24.40	



<FR1 n41_Ant 5_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	16.6
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	15.14	15.21	15.12	
100	PI/2 BPSK	1	137	15.50	15.56	15.47	16.6
100	PI/2 BPSK	1	271	14.86	14.94	14.88	
100	PI/2 BPSK	135	0	14.60	14.69	14.61	
100	PI/2 BPSK	135	69	14.62	14.70	14.61	16.6
100	PI/2 BPSK	135	138	14.60	14.69	14.60	16.6
100	PI/2 BPSK	270	0	14.64	14.72	14.63	
100	QPSK	1	1	15.16	15.13	15.13	
100	QPSK	1	137	15.47	15.50	15.47	16.6
100	QPSK	1	271	14.86	14.86	14.88	
100	QPSK	135	0	14.63	14.63	14.64	
100	QPSK	135	69	14.62	14.60	14.60	16.6
100	QPSK	135	138	14.60	14.60	14.62	16.6
100	QPSK	270	0	14.67	14.66	14.63	
100	16QAM	1	1	15.08	15.18	15.10	
100	64QAM	1	1	15.12	15.20	15.12	16.6
100	256QAM	1	1	15.10	15.19	15.13	16.6
Channel				508200	518598	528996	16.6
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	14.94	15.05	14.97	
Channel				507204	518598	529998	16.6
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	14.94	15.09	14.98	
Channel				506202	518598	531000	16.6
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	14.98	15.07	14.96	
Channel				505200	518598	531996	16.6
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	15.00	15.05	14.97	
Channel				504204	518598	532998	16.6
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	14.98	15.01	14.96	
Channel				503202	518598	534000	16.6
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	14.96	15.10	14.97	
Channel				502200	518598	534996	16.6
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	14.98	15.06	14.95	
Channel				501204	518598	535998	16.6
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	15.01	15.11	14.94	
Channel				500700	518598	536496	16.6
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	14.94	15.03	14.95	
Channel				500202	518598	537000	16.6
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	14.96	15.06	14.94	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	25.2
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.75	24.80	24.61	
100	PI/2 BPSK	1	137	24.30	24.44	24.27	24.7
100	PI/2 BPSK	1	271	24.31	24.50	24.34	
100	PI/2 BPSK	135	0	23.87	24.04	23.90	
100	PI/2 BPSK	135	69	24.29	24.44	24.29	25.2
100	PI/2 BPSK	135	138	23.71	23.91	23.81	
100	PI/2 BPSK	270	0	23.76	23.94	23.76	
100	QPSK	1	1	24.68	24.78	24.60	24.2
100	QPSK	1	137	24.22	24.40	24.22	
100	QPSK	1	271	24.38	24.50	24.31	
100	QPSK	135	0	23.40	23.54	23.36	25.2
100	QPSK	135	69	24.31	24.43	24.30	
100	QPSK	135	138	23.22	23.40	23.28	
100	QPSK	270	0	23.30	23.43	23.30	24.2
100	16QAM	1	1	23.64	23.79	23.61	
100	64QAM	1	1	22.12	22.25	22.07	
100	256QAM	1	1	20.14	20.28	20.14	20.7
Channel				508200	518598	528996	25.2
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.62	24.71	24.61	
Channel				507204	518598	529998	25.2
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.63	24.69	24.62	
Channel				506202	518598	531000	25.2
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.66	24.71	24.63	
Channel				505200	518598	531996	25.2
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.52	24.67	24.58	
Channel				504204	518598	532998	25.2
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.52	24.58	24.53	
Channel				503202	518598	534000	25.2
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.55	24.57	24.55	
Channel				502200	518598	534996	25.2
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.51	24.57	24.50	
Channel				501204	518598	535998	25.2
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.41	24.46	24.44	
Channel				500700	518598	536496	25.2
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.42	24.46	24.46	
Channel				500202	518598	537000	25.2
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.43	24.45	24.40	



<FR1 n41_Ant 5_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	15.6
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	15.14	15.21	15.12	
100	PI/2 BPSK	1	137	15.50	15.56	15.47	15.6
100	PI/2 BPSK	1	271	14.86	14.94	14.88	
100	PI/2 BPSK	135	0	14.60	14.69	14.61	
100	PI/2 BPSK	135	69	14.62	14.70	14.61	15.6
100	PI/2 BPSK	135	138	14.60	14.69	14.60	15.6
100	PI/2 BPSK	270	0	14.64	14.72	14.63	
100	QPSK	1	1	15.16	15.13	15.13	
100	QPSK	1	137	15.47	15.50	15.47	15.6
100	QPSK	1	271	14.86	14.86	14.88	
100	QPSK	135	0	14.63	14.63	14.64	
100	QPSK	135	69	14.62	14.60	14.60	15.6
100	QPSK	135	138	14.60	14.60	14.62	15.6
100	QPSK	270	0	14.67	14.66	14.63	
100	16QAM	1	1	15.08	15.18	15.10	
100	64QAM	1	1	15.12	15.20	15.12	15.6
100	256QAM	1	1	15.10	15.19	15.13	15.6
Channel				508200	518598	528996	15.6
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	14.94	15.05	14.97	
Channel				507204	518598	529998	15.6
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	14.94	15.09	14.98	
Channel				506202	518598	531000	15.6
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	14.98	15.07	14.96	
Channel				505200	518598	531996	15.6
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	15.00	15.05	14.97	
Channel				504204	518598	532998	15.6
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	14.98	15.01	14.96	
Channel				503202	518598	534000	15.6
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	14.96	15.10	14.97	
Channel				502200	518598	534996	15.6
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	14.98	15.06	14.95	
Channel				501204	518598	535998	15.6
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	15.01	15.11	14.94	
Channel				500700	518598	536496	15.6
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	14.94	15.03	14.95	
Channel				500202	518598	537000	15.6
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	14.96	15.06	14.94	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	21.9
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.12	21.13	21.09	
100	PI/2 BPSK	1	137	20.80	20.82	20.79	21.9
100	PI/2 BPSK	1	271	20.93	20.95	20.86	
100	PI/2 BPSK	135	0	20.79	20.87	20.86	
100	PI/2 BPSK	135	69	20.73	20.79	20.75	21.9
100	PI/2 BPSK	135	138	20.75	20.79	20.75	
100	PI/2 BPSK	270	0	20.75	20.80	20.72	
100	QPSK	1	1	21.09	21.11	21.01	21.9
100	QPSK	1	137	20.64	20.72	20.65	
100	QPSK	1	271	20.90	20.92	20.88	
100	QPSK	135	0	20.78	20.83	20.78	21.9
100	QPSK	135	69	20.68	20.76	20.69	
100	QPSK	135	138	20.69	20.72	20.66	
100	QPSK	270	0	20.77	20.79	20.78	21.9
100	16QAM	1	1	21.09	21.12	21.05	
100	64QAM	1	1	20.99	21.07	21.04	
100	256QAM	1	1	20.16	20.25	20.09	20.7
Channel				508200	518598	528996	21.9
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.05	21.05	21.03	
Channel				507204	518598	529998	21.9
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.03	21.04	20.95	
Channel				506202	518598	531000	21.9
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.99	20.98	20.98	
Channel				505200	518598	531996	21.9
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.03	21.07	20.94	
Channel				504204	518598	532998	21.9
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.00	20.99	20.95	
Channel				503202	518598	534000	21.9
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.05	21.06	21.01	
Channel				502200	518598	534996	21.9
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.98	21.02	20.94	
Channel				501204	518598	535998	21.9
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.03	21.03	20.95	
Channel				500700	518598	536496	21.9
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.04	21.05	20.95	
Channel				500202	518598	537000	21.9
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.06	21.05	20.99	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	19.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.13	19.14	19.12	
100	PI/2 BPSK	1	137	18.47	18.53	18.46	19.7
100	PI/2 BPSK	1	271	18.93	18.93	18.93	
100	PI/2 BPSK	135	0	18.55	18.58	18.57	
100	PI/2 BPSK	135	69	18.50	18.59	18.50	19.7
100	PI/2 BPSK	135	138	18.57	18.56	18.52	19.7
100	PI/2 BPSK	270	0	18.57	18.65	18.56	
100	QPSK	1	1	19.05	19.09	19.07	
100	QPSK	1	137	18.45	18.52	18.52	19.7
100	QPSK	1	271	18.88	18.94	18.90	
100	QPSK	135	0	18.62	18.65	18.55	
100	QPSK	135	69	18.50	18.56	18.46	19.7
100	QPSK	135	138	18.54	18.61	18.55	19.7
100	QPSK	270	0	18.56	18.65	18.58	
100	16QAM	1	1	19.02	19.11	19.08	
100	64QAM	1	1	19.03	19.04	18.97	19.7
100	256QAM	1	1	19.00	19.06	19.05	19.7
Channel				508200	518598	528996	19.7
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.02	19.04	19.06	
Channel				507204	518598	529998	19.7
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.02	19.02	19.03	
Channel				506202	518598	531000	19.7
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.03	19.10	19.09	
Channel				505200	518598	531996	19.7
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.01	19.06	19.08	
Channel				504204	518598	532998	19.7
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.05	19.12	19.01	
Channel				503202	518598	534000	19.7
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.09	19.04	19.03	
Channel				502200	518598	534996	19.7
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.04	19.03	19.08	
Channel				501204	518598	535998	19.7
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.06	19.09	19.10	
Channel				500700	518598	536496	19.7
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.10	19.06	19.10	
Channel				500202	518598	537000	19.7
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.01	19.12	19.04	



<FR1 n41_Ant 0_Index 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	24.4
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.65	22.70	22.58	
100	PI/2 BPSK	1	137	22.50	22.58	22.44	24.4
100	PI/2 BPSK	1	271	22.42	22.50	22.42	
100	PI/2 BPSK	135	0	22.44	22.49	22.44	
100	PI/2 BPSK	135	69	22.49	22.50	22.42	24.4
100	PI/2 BPSK	135	138	22.49	22.44	22.48	24.4
100	PI/2 BPSK	270	0	22.68	22.58	22.64	
100	QPSK	1	1	22.59	22.69	22.56	
100	QPSK	1	137	22.50	22.59	22.47	24.4
100	QPSK	1	271	22.43	22.50	22.53	
100	QPSK	135	0	22.78	22.87	22.71	
100	QPSK	135	69	22.51	22.58	22.42	24.2
100	QPSK	135	138	22.65	22.75	22.59	24.2
100	QPSK	270	0	22.27	22.37	22.20	
100	16QAM	1	1	22.55	22.65	22.48	
100	64QAM	1	1	22.18	22.25	22.10	22.7
100	256QAM	1	1	20.16	20.25	20.09	20.7
Channel				508200	518598	528996	24.4
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.60	22.60	22.50	
Channel				507204	518598	529998	24.4
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.57	22.65	22.53	
Channel				506202	518598	531000	24.4
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.56	22.61	22.48	
Channel				505200	518598	531996	24.4
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.55	22.65	22.50	
Channel				504204	518598	532998	24.4
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.55	22.60	22.53	
Channel				503202	518598	534000	24.4
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.58	22.65	22.50	
Channel				502200	518598	534996	24.4
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.60	22.65	22.51	
Channel				501204	518598	535998	24.4
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.56	22.64	22.52	
Channel				500700	518598	536496	24.4
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.59	22.64	22.51	
Channel				500202	518598	537000	24.4
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.58	22.64	22.51	



<FR1 n41_Ant 5_Index 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	22.1
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.15	21.26	21.13	
100	PI/2 BPSK	1	137	20.59	20.72	20.60	22.1
100	PI/2 BPSK	1	271	21.00	21.09	20.97	
100	PI/2 BPSK	135	0	20.60	20.71	20.63	
100	PI/2 BPSK	135	69	20.65	20.74	20.62	22.1
100	PI/2 BPSK	135	138	20.66	20.71	20.62	22.1
100	PI/2 BPSK	270	0	20.77	20.87	20.78	
100	QPSK	1	1	21.13	21.24	21.17	
100	QPSK	1	137	20.50	20.64	20.58	22.1
100	QPSK	1	271	20.90	20.97	20.90	
100	QPSK	135	0	20.63	20.68	20.59	
100	QPSK	135	69	20.58	20.66	20.58	22.1
100	QPSK	135	138	20.53	20.61	20.47	22.1
100	QPSK	270	0	20.70	20.77	20.65	
100	16QAM	1	1	21.07	21.22	21.09	
100	64QAM	1	1	21.13	21.18	21.09	22.1
100	256QAM	1	1	20.04	20.11	19.96	20.2
Channel				508200	518598	528996	22.1
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.06	21.21	21.02	
Channel				507204	518598	529998	22.1
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.08	21.14	21.07	
Channel				506202	518598	531000	22.1
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.08	21.15	21.04	
Channel				505200	518598	531996	22.1
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.03	21.21	21.01	
Channel				504204	518598	532998	22.1
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.09	21.12	20.99	
Channel				503202	518598	534000	22.1
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.08	21.17	21.06	
Channel				502200	518598	534996	22.1
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.02	21.18	21.01	
Channel				501204	518598	535998	22.1
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.06	21.14	21.04	
Channel				500700	518598	536496	22.1
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.04	21.21	21.01	
Channel				500202	518598	537000	22.1
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.04	21.13	21.05	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	21.9
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.12	21.13	21.09	
100	PI/2 BPSK	1	137	20.80	20.82	20.79	21.9
100	PI/2 BPSK	1	271	20.93	20.95	20.86	
100	PI/2 BPSK	135	0	20.79	20.87	20.86	
100	PI/2 BPSK	135	69	20.73	20.79	20.75	21.9
100	PI/2 BPSK	135	138	20.75	20.79	20.75	
100	PI/2 BPSK	270	0	20.75	20.80	20.72	
100	QPSK	1	1	21.09	21.11	21.01	21.9
100	QPSK	1	137	20.64	20.72	20.65	
100	QPSK	1	271	20.90	20.92	20.88	
100	QPSK	135	0	20.78	20.83	20.78	21.9
100	QPSK	135	69	20.68	20.76	20.69	
100	QPSK	135	138	20.69	20.72	20.66	
100	QPSK	270	0	20.77	20.79	20.78	21.9
100	16QAM	1	1	21.09	21.12	21.05	
100	64QAM	1	1	20.99	21.07	21.04	
100	256QAM	1	1	20.16	20.25	20.09	20.7
Channel				508200	518598	528996	21.9
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.05	21.05	21.03	
Channel				507204	518598	529998	21.9
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.03	21.04	20.95	
Channel				506202	518598	531000	21.9
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.99	20.98	20.98	
Channel				505200	518598	531996	21.9
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.03	21.07	20.94	
Channel				504204	518598	532998	21.9
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.00	20.99	20.95	
Channel				503202	518598	534000	21.9
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.05	21.06	21.01	
Channel				502200	518598	534996	21.9
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.98	21.02	20.94	
Channel				501204	518598	535998	21.9
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.03	21.03	20.95	
Channel				500700	518598	536496	21.9
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.04	21.05	20.95	
Channel				500202	518598	537000	21.9
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.06	21.05	20.99	



<FR1 n41_Ant 5_Index 6>

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	19.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.13	19.14	19.12	
100	PI/2 BPSK	1	137	18.47	18.53	18.46	19.7
100	PI/2 BPSK	1	271	18.93	18.93	18.93	
100	PI/2 BPSK	135	0	18.55	18.58	18.57	
100	PI/2 BPSK	135	69	18.50	18.59	18.50	19.7
100	PI/2 BPSK	135	138	18.57	18.56	18.52	19.7
100	PI/2 BPSK	270	0	18.57	18.65	18.56	
100	QPSK	1	1	19.05	19.09	19.07	
100	QPSK	1	137	18.45	18.52	18.52	19.7
100	QPSK	1	271	18.88	18.94	18.90	
100	QPSK	135	0	18.62	18.65	18.55	
100	QPSK	135	69	18.50	18.56	18.46	19.7
100	QPSK	135	138	18.54	18.61	18.55	19.7
100	QPSK	270	0	18.56	18.65	18.58	
100	16QAM	1	1	19.02	19.11	19.08	
100	64QAM	1	1	19.03	19.04	18.97	19.7
100	256QAM	1	1	19.00	19.06	19.05	19.7
Channel				508200	518598	528996	19.7
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.02	19.04	19.06	
Channel				507204	518598	529998	19.7
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.02	19.02	19.03	
Channel				506202	518598	531000	19.7
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.03	19.10	19.09	
Channel				505200	518598	531996	19.7
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.01	19.06	19.08	
Channel				504204	518598	532998	19.7
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.05	19.12	19.01	
Channel				503202	518598	534000	19.7
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.09	19.04	19.03	
Channel				502200	518598	534996	19.7
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.04	19.03	19.08	
Channel				501204	518598	535998	19.7
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.06	19.09	19.10	
Channel				500700	518598	536496	19.7
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.10	19.06	19.10	
Channel				500202	518598	537000	19.7
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.01	19.12	19.04	



<FR1 n41_HPUE_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	27.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.54	26.62	26.43	
100	PI/2 BPSK	1	137	26.14	26.19	26.13	26.5
100	PI/2 BPSK	1	271	26.18	26.28	26.21	
100	PI/2 BPSK	135	0	25.76	25.81	25.76	
100	PI/2 BPSK	135	69	26.13	26.20	26.10	26.5
100	PI/2 BPSK	135	138	25.57	25.67	25.59	
100	PI/2 BPSK	270	0	25.62	25.71	25.65	
100	QPSK	1	1	26.48	26.53	26.44	27.0
100	QPSK	1	137	26.13	26.18	26.10	
100	QPSK	1	271	26.21	26.28	26.21	
100	QPSK	135	0	25.21	25.29	25.23	26.0
100	QPSK	135	69	26.12	26.19	26.12	
100	QPSK	135	138	25.10	25.15	25.09	
100	QPSK	270	0	25.14	25.19	25.10	24.5
100	16QAM	1	1	25.51	25.56	25.49	
100	64QAM	1	1	23.96	24.02	23.94	
100	256QAM	1	1	21.98	22.03	21.94	22.5
Channel				508200	518598	528996	27.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	26.49	26.51	26.34	
Channel				507204	518598	529998	27.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.46	26.51	26.32	
Channel				506202	518598	531000	27.0
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	26.47	26.50	26.31	
Channel				505200	518598	531996	27.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.46	26.55	26.37	
Channel				504204	518598	532998	27.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.45	26.51	26.32	
Channel				503202	518598	534000	27.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.49	26.50	26.38	
Channel				502200	518598	534996	27.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.44	26.53	26.38	
Channel				501204	518598	535998	27.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	26.45	26.53	26.38	
Channel				500700	518598	536496	27.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	26.44	26.57	26.37	
Channel				500202	518598	537000	27.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	26.30	26.42	26.34	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	19.6
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.08	18.20	18.12	
100	PI/2 BPSK	1	137	17.75	17.81	17.75	19.6
100	PI/2 BPSK	1	271	17.85	17.91	17.79	
100	PI/2 BPSK	135	0	17.68	17.67	17.65	
100	PI/2 BPSK	135	69	17.73	17.80	17.72	19.6
100	PI/2 BPSK	135	138	17.64	17.60	17.63	19.6
100	PI/2 BPSK	270	0	17.64	17.75	17.69	
100	QPSK	1	1	18.11	18.11	18.10	
100	QPSK	1	137	17.68	17.73	17.70	19.6
100	QPSK	1	271	17.79	17.84	17.79	
100	QPSK	135	0	17.60	17.64	17.62	
100	QPSK	135	69	17.75	17.72	17.69	19.6
100	QPSK	135	138	17.61	17.61	17.62	19.6
100	QPSK	270	0	17.64	17.67	17.66	
100	16QAM	1	1	17.99	18.11	18.00	
100	64QAM	1	1	18.01	18.05	18.00	19.6
100	256QAM	1	1	18.01	18.05	17.99	19.6
Channel				508200	518598	528996	19.6
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.00	18.06	18.05	
Channel				507204	518598	529998	19.6
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	17.93	18.08	18.05	
Channel				506202	518598	531000	19.6
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.01	18.10	18.04	
Channel				505200	518598	531996	19.6
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	17.98	18.12	18.02	
Channel				504204	518598	532998	19.6
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	17.98	18.08	18.07	
Channel				503202	518598	534000	19.6
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	17.98	18.06	17.99	
Channel				502200	518598	534996	19.6
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.03	18.08	18.04	
Channel				501204	518598	535998	19.6
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.03	18.09	17.98	
Channel				500700	518598	536496	19.6
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	17.96	18.13	17.99	
Channel				500202	518598	537000	19.6
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	17.95	18.12	18.05	



<FR1 n41_HPUE_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	27.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.54	26.62	26.43	
100	PI/2 BPSK	1	137	26.14	26.19	26.13	26.5
100	PI/2 BPSK	1	271	26.18	26.28	26.21	
100	PI/2 BPSK	135	0	25.76	25.81	25.76	
100	PI/2 BPSK	135	69	26.13	26.20	26.10	26.5
100	PI/2 BPSK	135	138	25.57	25.67	25.59	
100	PI/2 BPSK	270	0	25.62	25.71	25.65	
100	QPSK	1	1	26.48	26.53	26.44	27.0
100	QPSK	1	137	26.13	26.18	26.10	
100	QPSK	1	271	26.21	26.28	26.21	
100	QPSK	135	0	25.21	25.29	25.23	27.0
100	QPSK	135	69	26.12	26.19	26.12	
100	QPSK	135	138	25.10	25.15	25.09	
100	QPSK	270	0	25.14	25.19	25.10	26.0
100	16QAM	1	1	25.51	25.56	25.49	
100	64QAM	1	1	23.96	24.02	23.94	
100	256QAM	1	1	21.98	22.03	21.94	22.5
Channel				508200	518598	528996	27.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	26.49	26.51	26.34	
Channel				507204	518598	529998	27.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.46	26.51	26.32	
Channel				506202	518598	531000	27.0
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	26.47	26.50	26.31	
Channel				505200	518598	531996	27.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.46	26.55	26.37	
Channel				504204	518598	532998	27.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.45	26.51	26.32	
Channel				503202	518598	534000	27.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.49	26.50	26.38	
Channel				502200	518598	534996	27.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.44	26.53	26.38	
Channel				501204	518598	535998	27.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	26.45	26.53	26.38	
Channel				500700	518598	536496	27.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	26.44	26.57	26.37	
Channel				500202	518598	537000	27.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	26.30	26.42	26.34	



<FR1 n41_HPUE_Ant 5_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	18.6
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.08	18.20	18.12	
100	PI/2 BPSK	1	137	17.75	17.81	17.75	18.6
100	PI/2 BPSK	1	271	17.85	17.91	17.79	
100	PI/2 BPSK	135	0	17.68	17.67	17.65	
100	PI/2 BPSK	135	69	17.73	17.80	17.72	18.6
100	PI/2 BPSK	135	138	17.64	17.60	17.63	18.6
100	PI/2 BPSK	270	0	17.64	17.75	17.69	
100	QPSK	1	1	18.11	18.11	18.10	
100	QPSK	1	137	17.68	17.73	17.70	18.6
100	QPSK	1	271	17.79	17.84	17.79	
100	QPSK	135	0	17.60	17.64	17.62	
100	QPSK	135	69	17.75	17.72	17.69	18.6
100	QPSK	135	138	17.61	17.61	17.62	18.6
100	QPSK	270	0	17.64	17.67	17.66	
100	16QAM	1	1	17.99	18.11	18.00	
100	64QAM	1	1	18.01	18.05	18.00	18.6
100	256QAM	1	1	18.01	18.05	17.99	18.6
Channel				508200	518598	528996	18.6
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.00	18.06	18.05	
Channel				507204	518598	529998	18.6
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	17.93	18.08	18.05	
Channel				506202	518598	531000	18.6
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.01	18.10	18.04	
Channel				505200	518598	531996	18.6
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	17.98	18.12	18.02	
Channel				504204	518598	532998	18.6
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	17.98	18.08	18.07	
Channel				503202	518598	534000	18.6
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	17.98	18.06	17.99	
Channel				502200	518598	534996	18.6
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.03	18.08	18.04	
Channel				501204	518598	535998	18.6
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.03	18.09	17.98	
Channel				500700	518598	536496	18.6
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	17.96	18.13	17.99	
Channel				500202	518598	537000	18.6
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	17.95	18.12	18.05	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	24.9
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.13	24.18	24.17	
100	PI/2 BPSK	1	137	23.82	23.83	23.78	24.9
100	PI/2 BPSK	1	271	23.92	23.98	23.95	
100	PI/2 BPSK	135	0	23.00	23.10	23.10	
100	PI/2 BPSK	135	69	23.75	23.83	23.80	24.9
100	PI/2 BPSK	135	138	23.77	23.82	23.72	24.9
100	PI/2 BPSK	270	0	23.81	23.83	23.78	
100	QPSK	1	1	24.12	24.12	24.04	
100	QPSK	1	137	23.81	23.84	23.76	24.9
100	QPSK	1	271	23.93	23.99	23.97	
100	QPSK	135	0	23.89	23.92	23.83	
100	QPSK	135	69	23.76	23.83	23.80	24.9
100	QPSK	135	138	23.80	23.83	23.74	24.9
100	QPSK	270	0	23.76	23.84	23.75	
100	16QAM	1	1	24.05	24.15	24.15	
100	64QAM	1	1	23.96	24.02	23.94	24.5
100	256QAM	1	1	21.98	22.03	21.94	22.5
Channel				508200	518598	528996	24.9
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.08	24.08	24.14	
Channel				507204	518598	529998	24.9
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.01	24.06	24.05	
Channel				506202	518598	531000	24.9
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.09	24.15	24.06	
Channel				505200	518598	531996	24.9
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.02	24.03	24.11	
Channel				504204	518598	532998	24.9
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.08	24.05	24.05	
Channel				503202	518598	534000	24.9
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.03	24.03	24.06	
Channel				502200	518598	534996	24.9
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.99	24.15	24.05	
Channel				501204	518598	535998	24.9
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.08	24.11	24.05	
Channel				500700	518598	536496	24.9
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.06	24.14	24.09	
Channel				500202	518598	537000	24.9
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.07	24.08	24.10	



<FR1 n41_HPUE_Ant 5_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	22.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.95	22.02	21.99	
100	PI/2 BPSK	1	137	21.36	21.40	21.31	22.7
100	PI/2 BPSK	1	271	21.77	21.85	21.84	
100	PI/2 BPSK	135	0	21.46	21.49	21.49	
100	PI/2 BPSK	135	69	21.38	21.50	21.35	22.7
100	PI/2 BPSK	135	138	21.48	21.48	21.46	22.7
100	PI/2 BPSK	270	0	21.47	21.57	21.47	
100	QPSK	1	1	22.02	22.03	21.99	
100	QPSK	1	137	21.34	21.40	21.34	22.7
100	QPSK	1	271	21.84	21.84	21.84	
100	QPSK	135	0	21.47	21.55	21.55	
100	QPSK	135	69	21.34	21.44	21.39	22.7
100	QPSK	135	138	21.44	21.53	21.46	22.7
100	QPSK	270	0	21.48	21.58	21.52	
100	16QAM	1	1	22.02	22.08	22.01	
100	64QAM	1	1	21.98	21.98	21.88	22.7
100	256QAM	1	1	21.50	21.60	21.58	22.0
Channel				508200	518598	528996	22.7
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.91	21.90	21.96	
Channel				507204	518598	529998	22.7
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.86	21.87	21.85	
Channel				506202	518598	531000	22.7
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.90	21.92	21.87	
Channel				505200	518598	531996	22.7
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.89	21.96	21.94	
Channel				504204	518598	532998	22.7
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.81	21.96	21.87	
Channel				503202	518598	534000	22.7
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.87	21.92	21.89	
Channel				502200	518598	534996	22.7
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.83	21.94	21.85	
Channel				501204	518598	535998	22.7
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.84	21.98	21.90	
Channel				500700	518598	536496	22.7
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.82	21.90	21.95	
Channel				500202	518598	537000	22.7
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.86	21.89	21.86	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	27.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.54	26.62	26.43	
100	PI/2 BPSK	1	137	26.14	26.19	26.13	26.5
100	PI/2 BPSK	1	271	26.18	26.28	26.21	
100	PI/2 BPSK	135	0	25.76	25.81	25.76	
100	PI/2 BPSK	135	69	26.13	26.20	26.10	27.0
100	PI/2 BPSK	135	138	25.57	25.67	25.59	
100	PI/2 BPSK	270	0	25.62	25.71	25.65	
100	QPSK	1	1	26.48	26.53	26.44	26.0
100	QPSK	1	137	26.13	26.18	26.10	
100	QPSK	1	271	26.21	26.28	26.21	
100	QPSK	135	0	25.21	25.29	25.23	27.0
100	QPSK	135	69	26.12	26.19	26.12	
100	QPSK	135	138	25.10	25.15	25.09	
100	QPSK	270	0	25.14	25.19	25.10	26.0
100	16QAM	1	1	25.51	25.56	25.49	
100	64QAM	1	1	23.96	24.02	23.94	
100	256QAM	1	1	21.98	22.03	21.94	22.5
Channel				508200	518598	528996	27.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	26.49	26.51	26.34	
Channel				507204	518598	529998	27.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.46	26.51	26.32	
Channel				506202	518598	531000	27.0
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	26.47	26.50	26.31	
Channel				505200	518598	531996	27.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.46	26.55	26.37	
Channel				504204	518598	532998	27.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.45	26.51	26.32	
Channel				503202	518598	534000	27.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.49	26.50	26.38	
Channel				502200	518598	534996	27.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.44	26.53	26.38	
Channel				501204	518598	535998	27.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	26.45	26.53	26.38	
Channel				500700	518598	536496	27.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	26.44	26.57	26.37	
Channel				500202	518598	537000	27.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	26.30	26.42	26.34	



<FR1 n41_HPUE_Ant 5_Index 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	25.1
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.11	24.19	24.06	
100	PI/2 BPSK	1	137	23.66	23.75	23.70	25.1
100	PI/2 BPSK	1	271	23.86	23.98	23.92	
100	PI/2 BPSK	135	0	23.62	23.70	23.61	
100	PI/2 BPSK	135	69	23.60	23.71	23.60	25.1
100	PI/2 BPSK	135	138	23.62	23.70	23.62	
100	PI/2 BPSK	270	0	23.63	23.74	23.68	
100	QPSK	1	1	23.99	24.11	24.03	25.1
100	QPSK	1	137	23.62	23.67	23.56	
100	QPSK	1	271	23.75	23.88	23.82	
100	QPSK	135	0	23.55	23.64	23.53	25.1
100	QPSK	135	69	23.46	23.61	23.56	25.1
100	QPSK	135	138	23.47	23.62	23.49	25.1
100	QPSK	270	0	23.55	23.66	23.52	
100	16QAM	1	1	24.13	24.18	24.13	
100	64QAM	1	1	23.56	23.62	23.50	24.0
100	256QAM	1	1	21.50	21.60	21.58	22.0
Channel				508200	518598	528996	25.1
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.04	24.13	24.04	
Channel				507204	518598	529998	25.1
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.02	24.08	24.00	
Channel				506202	518598	531000	25.1
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.99	24.10	23.98	
Channel				505200	518598	531996	25.1
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.07	24.07	24.03	
Channel				504204	518598	532998	25.1
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.03	24.15	24.01	
Channel				503202	518598	534000	25.1
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.01	24.09	23.95	
Channel				502200	518598	534996	25.1
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.06	24.12	24.01	
Channel				501204	518598	535998	25.1
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.01	24.12	23.95	
Channel				500700	518598	536496	25.1
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.01	24.10	23.98	
Channel				500202	518598	537000	25.1
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.01	24.11	24.04	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	24.9
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.13	24.18	24.17	
100	PI/2 BPSK	1	137	23.82	23.83	23.78	24.9
100	PI/2 BPSK	1	271	23.92	23.98	23.95	
100	PI/2 BPSK	135	0	23.00	23.10	23.10	
100	PI/2 BPSK	135	69	23.75	23.83	23.80	24.9
100	PI/2 BPSK	135	138	23.77	23.82	23.72	24.9
100	PI/2 BPSK	270	0	23.81	23.83	23.78	
100	QPSK	1	1	24.12	24.12	24.04	
100	QPSK	1	137	23.81	23.84	23.76	24.9
100	QPSK	1	271	23.93	23.99	23.97	
100	QPSK	135	0	23.89	23.92	23.83	
100	QPSK	135	69	23.76	23.83	23.80	24.9
100	QPSK	135	138	23.80	23.83	23.74	24.9
100	QPSK	270	0	23.76	23.84	23.75	
100	16QAM	1	1	24.05	24.15	24.15	
100	64QAM	1	1	23.96	24.02	23.94	24.5
100	256QAM	1	1	21.98	22.03	21.94	22.5
Channel				508200	518598	528996	24.9
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.08	24.08	24.14	
Channel				507204	518598	529998	24.9
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.01	24.06	24.05	
Channel				506202	518598	531000	24.9
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.09	24.15	24.06	
Channel				505200	518598	531996	24.9
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.02	24.03	24.11	
Channel				504204	518598	532998	24.9
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.08	24.05	24.05	
Channel				503202	518598	534000	24.9
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.03	24.03	24.06	
Channel				502200	518598	534996	24.9
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.99	24.15	24.05	
Channel				501204	518598	535998	24.9
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.08	24.11	24.05	
Channel				500700	518598	536496	24.9
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.06	24.14	24.09	
Channel				500202	518598	537000	24.9
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.07	24.08	24.10	



<FR1 n41_HPUE_Ant 5_Index 6>

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	22.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.95	22.02	21.99	
100	PI/2 BPSK	1	137	21.36	21.40	21.31	22.7
100	PI/2 BPSK	1	271	21.77	21.85	21.84	
100	PI/2 BPSK	135	0	21.46	21.49	21.49	
100	PI/2 BPSK	135	69	21.38	21.50	21.35	22.7
100	PI/2 BPSK	135	138	21.48	21.48	21.46	22.7
100	PI/2 BPSK	270	0	21.47	21.57	21.47	
100	QPSK	1	1	22.02	22.03	21.99	
100	QPSK	1	137	21.34	21.40	21.34	22.7
100	QPSK	1	271	21.84	21.84	21.84	
100	QPSK	135	0	21.47	21.55	21.55	
100	QPSK	135	69	21.34	21.44	21.39	22.7
100	QPSK	135	138	21.44	21.53	21.46	22.7
100	QPSK	270	0	21.48	21.58	21.52	
100	16QAM	1	1	22.02	22.08	22.01	
100	64QAM	1	1	21.98	21.98	21.88	22.7
100	256QAM	1	1	21.50	21.60	21.58	22.0
Channel				508200	518598	528996	22.7
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.91	21.90	21.96	
Channel				507204	518598	529998	22.7
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.86	21.87	21.85	
Channel				506202	518598	531000	22.7
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.90	21.92	21.87	
Channel				505200	518598	531996	22.7
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.89	21.96	21.94	
Channel				504204	518598	532998	22.7
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.81	21.96	21.87	
Channel				503202	518598	534000	22.7
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.87	21.92	21.89	
Channel				502200	518598	534996	22.7
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.83	21.94	21.85	
Channel				501204	518598	535998	22.7
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.84	21.98	21.90	
Channel				500700	518598	536496	22.7
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.82	21.90	21.95	
Channel				500202	518598	537000	22.7
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.86	21.89	21.86	



<FR1 n66_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	25.2
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.98	24.03	23.96	
40	PI/2 BPSK	1	108	23.89	24.01	23.85	24.7
40	PI/2 BPSK	1	214	23.63	23.57	23.56	
40	PI/2 BPSK	108	0	23.23	23.40	23.31	
40	PI/2 BPSK	108	54	23.83	23.89	23.80	25.2
40	PI/2 BPSK	108	108	23.27	23.24	23.23	
40	PI/2 BPSK	216	0	23.31	23.34	23.28	
40	QPSK	1	1	23.97	23.89	23.95	24.7
40	QPSK	1	108	23.94	23.85	23.92	
40	QPSK	1	214	23.66	23.60	23.60	
40	QPSK	108	0	22.75	22.88	22.84	25.2
40	QPSK	108	54	23.85	23.89	23.86	
40	QPSK	108	108	22.75	22.76	22.76	
40	QPSK	216	0	22.81	22.88	22.76	24.2
40	16QAM	1	1	22.55	22.52	22.71	
40	64QAM	1	1	21.12	21.39	21.99	
40	256QAM	1	1	19.17	19.20	19.31	20.7
Channel				345000	349000	353000	25.2
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.71	23.82	23.76	
Channel				344500	349000	353500	25.2
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.72	23.83	23.75	
Channel				344000	349000	354000	25.2
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.81	23.90	23.82	
Channel				343500	349000	354500	25.2
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.76	23.85	23.78	
Channel				343000	349000	355000	25.2
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.79	23.92	23.84	
Channel				342500	349000	355500	25.2
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.82	23.92	23.85	



<FR1 n66_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	25.2
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.98	24.03	23.96	
40	PI/2 BPSK	1	108	23.89	24.01	23.85	24.7
40	PI/2 BPSK	1	214	23.63	23.57	23.56	
40	PI/2 BPSK	108	0	23.23	23.40	23.31	
40	PI/2 BPSK	108	54	23.83	23.89	23.80	24.7
40	PI/2 BPSK	108	108	23.27	23.24	23.23	
40	PI/2 BPSK	216	0	23.31	23.34	23.28	
40	QPSK	1	1	23.97	23.89	23.95	25.2
40	QPSK	1	108	23.94	23.85	23.92	
40	QPSK	1	214	23.66	23.60	23.60	
40	QPSK	108	0	22.75	22.88	22.84	25.2
40	QPSK	108	54	23.85	23.89	23.86	
40	QPSK	108	108	22.75	22.76	22.76	
40	QPSK	216	0	22.81	22.88	22.76	24.2
40	16QAM	1	1	22.55	22.52	22.71	
40	64QAM	1	1	21.12	21.39	21.99	
40	256QAM	1	1	19.17	19.20	19.31	20.7
Channel				345000	349000	353000	25.2
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.71	23.82	23.76	
Channel				344500	349000	353500	25.2
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.72	23.83	23.75	
Channel				344000	349000	354000	25.2
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.81	23.90	23.82	
Channel				343500	349000	354500	25.2
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.76	23.85	23.78	
Channel				343000	349000	355000	25.2
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.79	23.92	23.84	
Channel				342500	349000	355500	25.2
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.82	23.92	23.85	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	23.0
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.87	21.95	21.91	
40	PI/2 BPSK	1	108	21.86	21.94	21.85	23.0
40	PI/2 BPSK	1	214	21.78	21.87	21.84	
40	PI/2 BPSK	108	0	22.12	22.14	22.07	
40	PI/2 BPSK	108	54	22.13	22.15	22.09	23.0
40	PI/2 BPSK	108	108	22.03	22.05	22.04	23.0
40	PI/2 BPSK	216	0	22.01	22.09	22.07	
40	QPSK	1	1	21.86	21.89	21.88	
40	QPSK	1	108	21.89	21.93	21.92	23.0
40	QPSK	1	214	21.74	21.82	21.79	
40	QPSK	108	0	22.04	22.13	22.05	
40	QPSK	108	54	22.05	22.11	22.08	23.0
40	QPSK	108	108	21.95	22.01	21.98	23.0
40	QPSK	216	0	22.04	22.06	22.03	
40	16QAM	1	1	21.94	21.95	21.91	
40	64QAM	1	1	21.24	21.33	21.25	22.7
40	256QAM	1	1	19.09	19.15	19.13	20.7
Channel				345000	349000	353000	23.0
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.84	21.90	21.81	
Channel				344500	349000	353500	23.0
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.77	21.90	21.88	
Channel				344000	349000	354000	23.0
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.83	21.88	21.84	
Channel				343500	349000	354500	23.0
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.80	21.89	21.88	
Channel				343000	349000	355000	23.0
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.81	21.88	21.88	
Channel				342500	349000	355500	23.0
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.84	21.90	21.85	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	24.8
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.98	24.03	23.96	
40	PI/2 BPSK	1	108	23.89	24.01	23.85	24.7
40	PI/2 BPSK	1	214	23.63	23.57	23.56	
40	PI/2 BPSK	108	0	23.23	23.40	23.31	
40	PI/2 BPSK	108	54	23.83	23.89	23.80	24.7
40	PI/2 BPSK	108	108	23.27	23.24	23.23	
40	PI/2 BPSK	216	0	23.31	23.34	23.28	
40	QPSK	1	1	23.97	23.89	23.95	24.8
40	QPSK	1	108	23.94	23.85	23.92	
40	QPSK	1	214	23.66	23.60	23.60	
40	QPSK	108	0	22.75	22.88	22.84	24.8
40	QPSK	108	54	23.85	23.89	23.86	
40	QPSK	108	108	22.75	22.76	22.76	
40	QPSK	216	0	22.81	22.88	22.76	24.2
40	16QAM	1	1	22.55	22.52	22.71	
40	64QAM	1	1	21.12	21.39	21.99	
40	256QAM	1	1	19.17	19.20	19.31	20.7
Channel				345000	349000	353000	24.8
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.71	23.82	23.76	
Channel				344500	349000	353500	24.8
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.72	23.83	23.75	
Channel				344000	349000	354000	24.8
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.81	23.90	23.82	
Channel				343500	349000	354500	24.8
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.76	23.85	23.78	
Channel				343000	349000	355000	24.8
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.79	23.92	23.84	
Channel				342500	349000	355500	24.8
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.82	23.92	23.85	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	23.0
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.87	21.95	21.91	
40	PI/2 BPSK	1	108	21.86	21.94	21.85	23.0
40	PI/2 BPSK	1	214	21.78	21.87	21.84	
40	PI/2 BPSK	108	0	22.12	22.14	22.07	
40	PI/2 BPSK	108	54	22.13	22.15	22.09	23.0
40	PI/2 BPSK	108	108	22.03	22.05	22.04	23.0
40	PI/2 BPSK	216	0	22.01	22.09	22.07	
40	QPSK	1	1	21.86	21.89	21.88	
40	QPSK	1	108	21.89	21.93	21.92	23.0
40	QPSK	1	214	21.74	21.82	21.79	
40	QPSK	108	0	22.04	22.13	22.05	
40	QPSK	108	54	22.05	22.11	22.08	23.0
40	QPSK	108	108	21.95	22.01	21.98	23.0
40	QPSK	216	0	22.04	22.06	22.03	
40	16QAM	1	1	21.94	21.95	21.91	
40	64QAM	1	1	21.24	21.33	21.25	22.7
40	256QAM	1	1	19.09	19.15	19.13	20.7
Channel				345000	349000	353000	23.0
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.84	21.90	21.81	
Channel				344500	349000	353500	23.0
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.77	21.90	21.88	
Channel				344000	349000	354000	23.0
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.83	21.88	21.84	
Channel				343500	349000	354500	23.0
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.80	21.89	21.88	
Channel				343000	349000	355000	23.0
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.81	21.88	21.88	
Channel				342500	349000	355500	23.0
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.84	21.90	21.85	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	25.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.33	23.50	23.49	
100	PI/2 BPSK	1	137	23.27	23.49	23.46	24.7
100	PI/2 BPSK	1	271	23.20	23.47	23.40	
100	PI/2 BPSK	135	0	23.39	23.65	23.63	
100	PI/2 BPSK	135	69	23.80	24.05	23.99	24.7
100	PI/2 BPSK	135	138	23.23	23.43	23.42	
100	PI/2 BPSK	270	0	23.43	23.61	23.59	
100	QPSK	1	1	23.29	23.46	23.42	25.1
100	QPSK	1	137	23.28	23.45	23.39	
100	QPSK	1	271	23.22	23.46	23.43	
100	QPSK	135	0	22.94	23.15	23.09	24.2
100	QPSK	135	69	23.80	24.04	23.99	
100	QPSK	135	138	22.75	22.96	22.94	
100	QPSK	270	0	22.95	23.13	23.03	24.2
100	16QAM	1	1	22.26	22.49	22.47	
100	64QAM	1	1	20.77	20.94	20.90	
100	256QAM	1	1	18.83	19.01	18.91	20.7
Channel				649668	656000	662332	25.1
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.27	23.49	23.43	
Channel				649334	656000	662666	25.1
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.29	23.47	23.43	
Channel				649000	656000	663000	25.1
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.31	23.45	23.45	
Channel				648668	656000	663332	25.1
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.28	23.44	23.47	
Channel				648334	656000	663666	25.1
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.30	23.45	23.44	
Channel				648000	656000	664000	25.1
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.25	23.42	23.43	
Channel				647668	656000	664332	25.1
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.30	23.44	23.47	
Channel				647500	656000	664500	25.1
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.23	23.48	23.45	
Channel				647334	656000	664666	25.1
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.28	23.41	23.45	
Channel				647168	656000	664832	25.1
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.24	23.42	23.41	
Channel				647000	656000	665000	25.1
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.23	23.45	23.48	



<FR1 n77_Ant 5_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	15.6
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	14.18	14.32	14.18	
100	PI/2 BPSK	1	137	13.95	14.00	13.97	15.6
100	PI/2 BPSK	1	271	14.17	14.31	14.20	
100	PI/2 BPSK	135	0	14.24	14.29	14.24	
100	PI/2 BPSK	135	69	14.28	14.30	14.25	15.6
100	PI/2 BPSK	135	138	14.00	14.11	13.98	15.6
100	PI/2 BPSK	270	0	14.38	14.43	14.40	
100	QPSK	1	1	14.21	14.18	14.19	
100	QPSK	1	137	13.95	13.97	13.90	15.6
100	QPSK	1	271	14.44	14.46	14.48	
100	QPSK	135	0	14.26	14.28	14.26	
100	QPSK	135	69	14.25	14.26	14.26	15.6
100	QPSK	135	138	14.01	14.01	14.00	15.6
100	QPSK	270	0	14.39	14.39	14.37	
100	16QAM	1	1	13.98	14.16	13.99	
100	64QAM	1	1	14.08	14.15	13.99	15.6
100	256QAM	1	1	14.00	14.22	14.04	15.6
Channel				649668	656000	662332	15.6
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	13.99	14.21	14.06	
Channel				649334	656000	662666	15.6
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	14.03	14.12	14.05	
Channel				649000	656000	663000	15.6
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	14.03	14.18	14.07	
Channel				648668	656000	663332	15.6
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	14.05	14.17	14.00	
Channel				648334	656000	663666	15.6
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	14.00	14.22	13.98	
Channel				648000	656000	664000	15.6
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	14.02	14.21	13.99	
Channel				647668	656000	664332	15.6
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	14.02	14.13	14.04	
Channel				647500	656000	664500	15.6
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	14.01	14.17	13.99	
Channel				647334	656000	664666	15.6
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.01	14.19	13.98	
Channel				647168	656000	664832	15.6
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	13.99	14.13	14.02	
Channel				647000	656000	665000	15.6
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.01	14.00	13.99	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.65	21.73	21.90	23.0
100	PI/2 BPSK	1	137	21.62	21.70	21.87	
100	PI/2 BPSK	1	271	21.59	21.67	21.84	
100	PI/2 BPSK	135	0	22.01	22.09	22.26	23.0
100	PI/2 BPSK	135	69	22.02	22.10	22.27	23.0
100	PI/2 BPSK	135	138	21.58	21.66	21.83	23.0
100	PI/2 BPSK	270	0	21.89	21.97	22.14	
100	QPSK	1	1	21.62	21.70	21.87	23.0
100	QPSK	1	137	21.63	21.71	21.88	
100	QPSK	1	271	21.60	21.68	21.85	
100	QPSK	135	0	21.96	22.04	22.21	23.0
100	QPSK	135	69	21.99	22.07	22.24	23.0
100	QPSK	135	138	21.58	21.66	21.83	23.0
100	QPSK	270	0	21.87	21.95	22.12	
100	16QAM	1	1	21.62	21.70	21.87	23.0
100	64QAM	1	1	20.76	20.84	21.00	22.7
100	256QAM	1	1	18.84	18.91	19.06	20.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.63	21.68	21.71	23.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.58	21.58	21.75	23.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.58	21.58	21.75	23.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.50	21.68	21.88	23.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.45	21.54	21.88	23.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.47	21.63	21.72	23.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.48	21.60	21.77	23.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.54	21.57	21.83	23.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.52	21.70	21.84	23.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.64	21.73	21.84	23.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.58	21.68	21.79	23.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	14.9
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	14.18	14.32	14.18	
100	PI/2 BPSK	1	137	13.95	14.00	13.97	14.9
100	PI/2 BPSK	1	271	14.17	14.31	14.20	
100	PI/2 BPSK	135	0	14.24	14.29	14.24	
100	PI/2 BPSK	135	69	14.28	14.30	14.25	14.9
100	PI/2 BPSK	135	138	14.00	14.11	13.98	14.9
100	PI/2 BPSK	270	0	14.38	14.43	14.40	
100	QPSK	1	1	14.21	14.18	14.19	
100	QPSK	1	137	13.95	13.97	13.90	14.9
100	QPSK	1	271	14.44	14.46	14.48	
100	QPSK	135	0	14.26	14.28	14.26	
100	QPSK	135	69	14.25	14.26	14.26	14.9
100	QPSK	135	138	14.01	14.01	14.00	14.9
100	QPSK	270	0	14.39	14.39	14.37	
100	16QAM	1	1	13.98	14.16	13.99	
100	64QAM	1	1	14.08	14.15	13.99	14.9
100	256QAM	1	1	14.00	14.22	14.04	14.9
Channel				649668	656000	662332	14.9
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	13.99	14.21	14.06	
Channel				649334	656000	662666	14.9
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	14.03	14.12	14.05	
Channel				649000	656000	663000	14.9
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	14.03	14.18	14.07	
Channel				648668	656000	663332	14.9
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	14.05	14.17	14.00	
Channel				648334	656000	663666	14.9
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	14.00	14.22	13.98	
Channel				648000	656000	664000	14.9
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	14.02	14.21	13.99	
Channel				647668	656000	664332	14.9
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	14.02	14.13	14.04	
Channel				647500	656000	664500	14.9
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	14.01	14.17	13.99	
Channel				647334	656000	664666	14.9
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.01	14.19	13.98	
Channel				647168	656000	664832	14.9
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	13.99	14.13	14.02	
Channel				647000	656000	665000	14.9
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.01	14.00	13.99	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	19.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.91	17.99	17.89	
100	PI/2 BPSK	1	137	17.94	17.98	17.95	19.5
100	PI/2 BPSK	1	271	17.94	17.96	17.93	
100	PI/2 BPSK	135	0	18.35	18.44	18.38	
100	PI/2 BPSK	135	69	18.42	18.46	18.42	19.5
100	PI/2 BPSK	135	138	18.34	18.40	18.35	19.5
100	PI/2 BPSK	270	0	18.47	18.50	18.45	
100	QPSK	1	1	17.88	17.97	17.88	
100	QPSK	1	137	17.79	17.89	17.79	19.5
100	QPSK	1	271	17.82	17.89	17.79	
100	QPSK	135	0	18.27	18.35	18.33	
100	QPSK	135	69	18.27	18.36	18.32	19.5
100	QPSK	135	138	18.27	18.34	18.28	19.5
100	QPSK	270	0	18.34	18.42	18.33	
100	16QAM	1	1	17.95	17.98	17.91	
100	64QAM	1	1	17.86	17.96	17.92	19.5
100	256QAM	1	1	17.76	17.86	17.83	19.5
Channel				649668	656000	662332	19.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	17.80	17.96	17.77	
Channel				649334	656000	662666	19.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.86	17.88	17.81	
Channel				649000	656000	663000	19.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	17.81	17.88	17.84	
Channel				648668	656000	663332	19.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.80	17.97	17.82	
Channel				648334	656000	663666	19.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	17.80	17.96	17.79	
Channel				648000	656000	664000	19.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.89	17.97	17.81	
Channel				647668	656000	664332	19.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	17.86	17.94	17.86	
Channel				647500	656000	664500	19.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	17.81	17.90	17.82	
Channel				647334	656000	664666	19.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.87	17.88	17.81	
Channel				647168	656000	664832	19.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	17.83	17.94	17.86	
Channel				647000	656000	665000	19.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	17.89	17.91	17.85	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	21.7
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.30	21.37	21.29	
100	PI/2 BPSK	1	137	20.96	21.01	20.95	21.7
100	PI/2 BPSK	1	271	21.26	21.36	21.21	
100	PI/2 BPSK	135	0	21.23	21.37	21.24	
100	PI/2 BPSK	135	69	21.28	21.38	21.31	21.7
100	PI/2 BPSK	135	138	20.99	21.13	21.06	21.7
100	PI/2 BPSK	270	0	21.41	21.52	21.47	
100	QPSK	1	1	21.15	21.27	21.21	
100	QPSK	1	137	20.96	21.00	20.95	21.7
100	QPSK	1	271	21.22	21.29	21.23	
100	QPSK	135	0	21.26	21.32	21.21	
100	QPSK	135	69	21.23	21.34	21.24	21.7
100	QPSK	135	138	20.93	20.98	20.92	21.7
100	QPSK	270	0	21.26	21.41	21.34	
100	16QAM	1	1	21.30	21.39	21.30	
100	64QAM	1	1	21.18	21.31	21.23	21.7
100	256QAM	1	1	19.50	19.55	19.42	20.7
Channel				649668	656000	662332	21.7
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.18	21.31	21.21	
Channel				649334	656000	662666	21.7
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.24	21.25	21.20	
Channel				649000	656000	663000	21.7
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.21	21.32	21.17	
Channel				648668	656000	663332	21.7
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.19	21.30	21.19	
Channel				648334	656000	663666	21.7
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.15	21.23	21.20	
Channel				648000	656000	664000	21.7
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.15	21.30	21.24	
Channel				647668	656000	664332	21.7
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.21	21.32	21.17	
Channel				647500	656000	664500	21.7
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.23	21.29	21.22	
Channel				647334	656000	664666	21.7
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.16	21.22	21.21	
Channel				647168	656000	664832	21.7
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.18	21.29	21.23	
Channel				647000	656000	665000	21.7
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.17	21.24	21.21	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	21.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.83	20.13	20.12	
100	PI/2 BPSK	1	137	19.80	20.06	20.01	21.0
100	PI/2 BPSK	1	271	19.76	20.03	20.01	
100	PI/2 BPSK	135	0	20.23	20.44	20.48	
100	PI/2 BPSK	135	69	20.22	20.51	20.40	21.0
100	PI/2 BPSK	135	138	20.09	20.32	20.29	21.0
100	PI/2 BPSK	270	0	20.22	20.49	20.47	
100	QPSK	1	1	19.68	19.92	19.89	
100	QPSK	1	137	19.82	20.06	20.03	21.0
100	QPSK	1	271	19.80	20.04	20.02	
100	QPSK	135	0	20.21	20.50	20.45	
100	QPSK	135	69	20.22	20.44	20.39	21.0
100	QPSK	135	138	20.04	20.32	20.30	21.0
100	QPSK	270	0	20.26	20.48	20.43	
100	16QAM	1	1	19.63	19.93	19.91	
100	64QAM	1	1	19.59	19.86	19.83	21.0
100	256QAM	1	1	18.81	19.09	19.06	20.7
Channel				649668	656000	662332	21.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.77	20.04	20.06	
Channel				649334	656000	662666	21.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.75	20.03	20.05	
Channel				649000	656000	663000	21.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.76	20.08	20.02	
Channel				648668	656000	663332	21.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.77	20.07	20.02	
Channel				648334	656000	663666	21.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.75	20.08	20.07	
Channel				648000	656000	664000	21.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.75	20.06	20.05	
Channel				647668	656000	664332	21.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.74	20.04	20.05	
Channel				647500	656000	664500	21.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.76	20.08	20.06	
Channel				647334	656000	664666	21.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.76	20.04	20.03	
Channel				647168	656000	664832	21.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.76	20.04	20.05	
Channel				647000	656000	665000	21.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.73	20.08	20.07	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	22.9
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.30	21.37	21.29	
100	PI/2 BPSK	1	137	20.96	21.01	20.95	22.9
100	PI/2 BPSK	1	271	21.26	21.36	21.21	
100	PI/2 BPSK	135	0	21.23	21.37	21.24	
100	PI/2 BPSK	135	69	21.28	21.38	21.31	22.9
100	PI/2 BPSK	135	138	20.99	21.13	21.06	22.9
100	PI/2 BPSK	270	0	21.41	21.52	21.47	
100	QPSK	1	1	21.15	21.27	21.21	
100	QPSK	1	137	20.96	21.00	20.95	22.9
100	QPSK	1	271	21.22	21.29	21.23	
100	QPSK	135	0	21.26	21.32	21.21	
100	QPSK	135	69	21.23	21.34	21.24	22.9
100	QPSK	135	138	20.93	20.98	20.92	22.9
100	QPSK	270	0	21.26	21.41	21.34	
100	16QAM	1	1	21.30	21.39	21.30	
100	64QAM	1	1	21.18	21.31	21.23	22.7
100	256QAM	1	1	19.50	19.55	19.42	20.7
Channel				649668	656000	662332	22.9
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.18	21.31	21.21	
Channel				649334	656000	662666	22.9
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.24	21.25	21.20	
Channel				649000	656000	663000	22.9
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.21	21.32	21.17	
Channel				648668	656000	663332	22.9
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.19	21.30	21.19	
Channel				648334	656000	663666	22.9
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.15	21.23	21.20	
Channel				648000	656000	664000	22.9
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.15	21.30	21.24	
Channel				647668	656000	664332	22.9
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.21	21.32	21.17	
Channel				647500	656000	664500	22.9
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.23	21.29	21.22	
Channel				647334	656000	664666	22.9
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.16	21.22	21.21	
Channel				647168	656000	664832	22.9
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.18	21.29	21.23	
Channel				647000	656000	665000	22.9
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.17	21.24	21.21	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.83	20.13	20.12	21.0
100	PI/2 BPSK	1	137	19.80	20.06	20.01	
100	PI/2 BPSK	1	271	19.76	20.03	20.01	
100	PI/2 BPSK	135	0	20.23	20.44	20.48	21.0
100	PI/2 BPSK	135	69	20.22	20.51	20.40	21.0
100	PI/2 BPSK	135	138	20.09	20.32	20.29	21.0
100	PI/2 BPSK	270	0	20.22	20.49	20.47	
100	QPSK	1	1	19.68	19.92	19.89	21.0
100	QPSK	1	137	19.82	20.06	20.03	
100	QPSK	1	271	19.80	20.04	20.02	
100	QPSK	135	0	20.21	20.50	20.45	21.0
100	QPSK	135	69	20.22	20.44	20.39	21.0
100	QPSK	135	138	20.04	20.32	20.30	21.0
100	QPSK	270	0	20.26	20.48	20.43	
100	16QAM	1	1	19.63	19.93	19.91	21.0
100	64QAM	1	1	19.59	19.86	19.83	21.0
100	256QAM	1	1	18.81	19.09	19.06	20.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.77	20.04	20.06	21.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.75	20.03	20.05	21.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.76	20.08	20.02	21.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.77	20.07	20.02	21.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.75	20.08	20.07	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.75	20.06	20.05	21.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.74	20.04	20.05	21.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.76	20.08	20.06	21.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.76	20.04	20.03	21.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.76	20.04	20.05	21.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.73	20.08	20.07	21.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	21.7
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.30	21.37	21.29	
100	PI/2 BPSK	1	137	20.96	21.01	20.95	21.7
100	PI/2 BPSK	1	271	21.26	21.36	21.21	
100	PI/2 BPSK	135	0	21.23	21.37	21.24	
100	PI/2 BPSK	135	69	21.28	21.38	21.31	21.7
100	PI/2 BPSK	135	138	20.99	21.13	21.06	21.7
100	PI/2 BPSK	270	0	21.41	21.52	21.47	
100	QPSK	1	1	21.15	21.27	21.21	
100	QPSK	1	137	20.96	21.00	20.95	21.7
100	QPSK	1	271	21.22	21.29	21.23	
100	QPSK	135	0	21.26	21.32	21.21	
100	QPSK	135	69	21.23	21.34	21.24	21.7
100	QPSK	135	138	20.93	20.98	20.92	21.7
100	QPSK	270	0	21.26	21.41	21.34	
100	16QAM	1	1	21.30	21.39	21.30	
100	64QAM	1	1	21.18	21.31	21.23	21.7
100	256QAM	1	1	19.50	19.55	19.42	20.7
Channel				649668	656000	662332	21.7
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.18	21.31	21.21	
Channel				649334	656000	662666	21.7
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.24	21.25	21.20	
Channel				649000	656000	663000	21.7
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.21	21.32	21.17	
Channel				648668	656000	663332	21.7
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.19	21.30	21.19	
Channel				648334	656000	663666	21.7
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.15	21.23	21.20	
Channel				648000	656000	664000	21.7
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.15	21.30	21.24	
Channel				647668	656000	664332	21.7
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.21	21.32	21.17	
Channel				647500	656000	664500	21.7
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.23	21.29	21.22	
Channel				647334	656000	664666	21.7
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.16	21.22	21.21	
Channel				647168	656000	664832	21.7
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.18	21.29	21.23	
Channel				647000	656000	665000	21.7
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.17	21.24	21.21	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.12	25.23	25.12	26.7
100	PI/2 BPSK	1	137	25.11	25.22	25.11	
100	PI/2 BPSK	1	271	24.94	25.01	24.94	
100	PI/2 BPSK	135	0	25.06	25.13	25.06	26.2
100	PI/2 BPSK	135	69	25.55	25.61	25.55	26.7
100	PI/2 BPSK	135	138	24.83	24.95	24.87	26.2
100	PI/2 BPSK	270	0	25.03	25.12	25.05	
100	QPSK	1	1	25.14	25.20	25.14	26.7
100	QPSK	1	137	25.11	25.19	25.10	
100	QPSK	1	271	24.95	25.01	24.95	
100	QPSK	135	0	24.55	24.62	24.54	25.7
100	QPSK	135	69	25.49	25.59	25.46	26.7
100	QPSK	135	138	24.31	24.43	24.36	25.7
100	QPSK	270	0	24.47	24.60	24.48	
100	16QAM	1	1	23.89	23.96	23.83	25.7
100	64QAM	1	1	22.33	22.42	22.29	24.2
100	256QAM	1	1	20.43	20.49	20.42	22.2
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.96	25.12	24.94	26.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.93	25.13	24.92	26.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.96	25.10	25.00	26.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.99	25.10	25.01	26.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.94	25.11	24.97	26.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.92	25.08	24.95	26.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.97	25.03	24.92	26.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.98	25.09	24.94	26.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.01	25.06	24.93	26.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.01	25.08	24.93	26.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.02	25.08	24.92	26.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	18.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.02	17.13	17.10	
100	PI/2 BPSK	1	137	16.92	17.05	17.01	18.2
100	PI/2 BPSK	1	271	16.31	16.38	16.31	
100	PI/2 BPSK	135	0	16.95	17.01	16.87	
100	PI/2 BPSK	135	69	16.98	17.05	16.92	18.2
100	PI/2 BPSK	135	138	16.58	16.62	16.54	18.2
100	PI/2 BPSK	270	0	16.90	16.96	16.82	
100	QPSK	1	1	16.98	17.05	16.96	
100	QPSK	1	137	16.94	17.01	16.95	18.2
100	QPSK	1	271	16.28	16.33	16.29	
100	QPSK	135	0	16.92	17.01	16.94	
100	QPSK	135	69	16.95	17.04	16.96	18.2
100	QPSK	135	138	16.54	16.61	16.55	18.2
100	QPSK	270	0	16.90	16.95	16.85	
100	16QAM	1	1	16.96	17.02	16.96	
100	64QAM	1	1	16.95	17.01	16.87	18.2
100	256QAM	1	1	16.92	16.98	16.91	18.2
Channel				649668	656000	662332	18.2
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	16.89	17.07	16.97	
Channel				649334	656000	662666	18.2
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	16.91	17.11	17.01	
Channel				649000	656000	663000	18.2
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	16.95	17.05	17.02	
Channel				648668	656000	663332	18.2
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	16.97	17.08	17.07	
Channel				648334	656000	663666	18.2
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	16.92	17.10	16.96	
Channel				648000	656000	664000	18.2
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	16.90	17.10	16.96	
Channel				647668	656000	664332	18.2
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	16.93	17.07	17.01	
Channel				647500	656000	664500	18.2
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	16.87	17.05	17.01	
Channel				647334	656000	664666	18.2
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	16.93	17.03	17.02	
Channel				647168	656000	664832	18.2
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	16.99	17.05	16.98	
Channel				647000	656000	665000	18.2
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	16.92	17.10	16.98	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	26.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.12	25.23	25.12	
100	PI/2 BPSK	1	137	25.11	25.22	25.11	26.0
100	PI/2 BPSK	1	271	24.94	25.01	24.94	
100	PI/2 BPSK	135	0	25.06	25.13	25.06	
100	PI/2 BPSK	135	69	25.55	25.61	25.55	26.0
100	PI/2 BPSK	135	138	24.83	24.95	24.87	26.0
100	PI/2 BPSK	270	0	25.03	25.12	25.05	
100	QPSK	1	1	25.14	25.20	25.14	
100	QPSK	1	137	25.11	25.19	25.10	26.0
100	QPSK	1	271	24.95	25.01	24.95	
100	QPSK	135	0	24.55	24.62	24.54	
100	QPSK	135	69	25.49	25.59	25.46	25.7
100	QPSK	135	138	24.31	24.43	24.36	25.7
100	QPSK	270	0	24.47	24.60	24.48	
100	16QAM	1	1	23.89	23.96	23.83	
100	64QAM	1	1	22.33	22.42	22.29	24.2
100	256QAM	1	1	20.43	20.49	20.42	22.2
Channel				649668	656000	662332	26.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.96	25.12	24.94	
Channel				649334	656000	662666	26.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.93	25.13	24.92	
Channel				649000	656000	663000	26.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.96	25.10	25.00	
Channel				648668	656000	663332	26.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.99	25.10	25.01	
Channel				648334	656000	663666	26.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.94	25.11	24.97	
Channel				648000	656000	664000	26.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.92	25.08	24.95	
Channel				647668	656000	664332	26.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.97	25.03	24.92	
Channel				647500	656000	664500	26.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.98	25.09	24.94	
Channel				647334	656000	664666	26.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.01	25.06	24.93	
Channel				647168	656000	664832	26.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.01	25.08	24.93	
Channel				647000	656000	665000	26.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.02	25.08	24.92	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	17.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.02	17.13	17.10	
100	PI/2 BPSK	1	137	16.92	17.05	17.01	17.5
100	PI/2 BPSK	1	271	16.31	16.38	16.31	
100	PI/2 BPSK	135	0	16.95	17.01	16.87	
100	PI/2 BPSK	135	69	16.98	17.05	16.92	17.5
100	PI/2 BPSK	135	138	16.58	16.62	16.54	17.5
100	PI/2 BPSK	270	0	16.90	16.96	16.82	
100	QPSK	1	1	16.98	17.05	16.96	
100	QPSK	1	137	16.94	17.01	16.95	17.5
100	QPSK	1	271	16.28	16.33	16.29	
100	QPSK	135	0	16.92	17.01	16.94	
100	QPSK	135	69	16.95	17.04	16.96	17.5
100	QPSK	135	138	16.54	16.61	16.55	17.5
100	QPSK	270	0	16.90	16.95	16.85	
100	16QAM	1	1	16.96	17.02	16.96	
100	64QAM	1	1	16.95	17.01	16.87	17.5
100	256QAM	1	1	16.92	16.98	16.91	17.5
Channel				649668	656000	662332	17.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	16.89	17.07	16.97	
Channel				649334	656000	662666	17.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	16.91	17.11	17.01	
Channel				649000	656000	663000	17.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	16.95	17.05	17.02	
Channel				648668	656000	663332	17.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	16.97	17.08	17.07	
Channel				648334	656000	663666	17.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	16.92	17.10	16.96	
Channel				648000	656000	664000	17.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	16.90	17.10	16.96	
Channel				647668	656000	664332	17.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	16.93	17.07	17.01	
Channel				647500	656000	664500	17.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	16.87	17.05	17.01	
Channel				647334	656000	664666	17.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	16.93	17.03	17.02	
Channel				647168	656000	664832	17.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	16.99	17.05	16.98	
Channel				647000	656000	665000	17.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	16.92	17.10	16.98	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	22.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.94	21.00	20.94	
100	PI/2 BPSK	1	137	20.94	20.99	20.92	22.5
100	PI/2 BPSK	1	271	20.95	20.98	20.93	
100	PI/2 BPSK	135	0	21.33	21.40	21.38	
100	PI/2 BPSK	135	69	21.41	21.46	21.42	22.5
100	PI/2 BPSK	135	138	21.30	21.33	21.31	
100	PI/2 BPSK	270	0	21.49	21.51	21.45	
100	QPSK	1	1	20.90	20.94	20.89	22.5
100	QPSK	1	137	20.80	20.90	20.80	
100	QPSK	1	271	20.85	20.88	20.79	
100	QPSK	135	0	21.23	21.33	21.25	22.5
100	QPSK	135	69	21.34	21.37	21.29	
100	QPSK	135	138	21.21	21.26	21.15	
100	QPSK	270	0	21.41	21.45	21.39	22.5
100	16QAM	1	1	20.97	20.99	20.97	
100	64QAM	1	1	20.93	20.96	20.88	
100	256QAM	1	1	20.90	20.96	20.90	22.2
Channel				649668	656000	662332	22.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.87	20.86	20.81	
Channel				649334	656000	662666	22.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.80	20.95	20.79	
Channel				649000	656000	663000	22.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.87	20.93	20.82	
Channel				648668	656000	663332	22.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.83	20.85	20.79	
Channel				648334	656000	663666	22.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.88	20.91	20.83	
Channel				648000	656000	664000	22.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.89	20.87	20.88	
Channel				647668	656000	664332	22.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.89	20.85	20.86	
Channel				647500	656000	664500	22.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.80	20.86	20.84	
Channel				647334	656000	664666	22.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.84	20.94	20.89	
Channel				647168	656000	664832	22.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.81	20.85	20.82	
Channel				647000	656000	665000	22.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.85	20.86	20.83	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	22.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.84	21.90	21.84	
100	PI/2 BPSK	1	137	21.83	21.89	21.81	22.5
100	PI/2 BPSK	1	271	21.41	21.49	21.45	
100	PI/2 BPSK	135	0	21.76	21.87	21.79	
100	PI/2 BPSK	135	69	21.81	21.88	21.80	22.5
100	PI/2 BPSK	135	138	21.67	21.68	21.59	22.5
100	PI/2 BPSK	270	0	21.69	21.79	21.75	
100	QPSK	1	1	21.80	21.82	21.80	
100	QPSK	1	137	21.80	21.88	21.80	22.5
100	QPSK	1	271	21.36	21.42	21.33	
100	QPSK	135	0	21.75	21.81	21.71	
100	QPSK	135	69	21.79	21.84	21.75	22.5
100	QPSK	135	138	21.61	21.64	21.52	22.5
100	QPSK	270	0	21.64	21.70	21.67	
100	16QAM	1	1	21.77	21.81	21.70	
100	64QAM	1	1	21.39	21.47	21.38	22.5
100	256QAM	1	1	19.51	19.56	19.51	21.5
Channel				649668	656000	662332	22.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.70	21.73	21.80	
Channel				649334	656000	662666	22.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.69	21.89	21.67	
Channel				649000	656000	663000	22.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.64	21.79	21.79	
Channel				648668	656000	663332	22.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.68	21.72	21.78	
Channel				648334	656000	663666	22.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.71	21.80	21.71	
Channel				648000	656000	664000	22.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.82	21.80	21.77	
Channel				647668	656000	664332	22.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.67	21.89	21.70	
Channel				647500	656000	664500	22.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.81	21.84	21.66	
Channel				647334	656000	664666	22.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.64	21.74	21.77	
Channel				647168	656000	664832	22.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.69	21.81	21.68	
Channel				647000	656000	665000	22.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.80	21.73	21.74	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	24.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.06	22.17	22.06	
100	PI/2 BPSK	1	137	22.04	22.16	22.05	24.0
100	PI/2 BPSK	1	271	22.01	22.09	22.02	
100	PI/2 BPSK	135	0	22.42	22.45	22.46	
100	PI/2 BPSK	135	69	22.39	22.51	22.43	24.0
100	PI/2 BPSK	135	138	22.26	22.32	22.27	24.0
100	PI/2 BPSK	270	0	22.39	22.49	22.46	
100	QPSK	1	1	22.06	22.15	22.14	
100	QPSK	1	137	22.04	22.07	22.05	24.0
100	QPSK	1	271	22.01	22.04	22.03	
100	QPSK	135	0	22.41	22.50	22.48	
100	QPSK	135	69	22.35	22.43	22.39	24.0
100	QPSK	135	138	22.24	22.30	22.26	24.0
100	QPSK	270	0	22.39	22.48	22.44	
100	16QAM	1	1	22.04	22.15	22.14	
100	64QAM	1	1	22.02	22.13	22.08	24.0
100	256QAM	1	1	20.55	20.56	20.54	22.2
Channel				649668	656000	662332	24.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.13	22.15	22.12	
Channel				649334	656000	662666	24.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.05	22.16	22.00	
Channel				649000	656000	663000	24.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.00	22.14	22.01	
Channel				648668	656000	663332	24.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.04	22.14	22.04	
Channel				648334	656000	663666	24.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.03	22.14	22.02	
Channel				648000	656000	664000	24.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.01	22.16	22.01	
Channel				647668	656000	664332	24.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.04	22.14	22.02	
Channel				647500	656000	664500	24.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.02	22.11	22.03	
Channel				647334	656000	664666	24.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.01	22.11	22.03	
Channel				647168	656000	664832	24.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.05	22.12	22.01	
Channel				647000	656000	665000	24.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.03	22.15	22.02	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	25.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.11	24.26	24.25	
100	PI/2 BPSK	1	137	24.10	24.21	24.23	25.5
100	PI/2 BPSK	1	271	23.22	23.64	23.71	
100	PI/2 BPSK	135	0	23.61	23.71	23.92	
100	PI/2 BPSK	135	69	24.05	24.14	24.12	25.5
100	PI/2 BPSK	135	138	23.16	23.44	23.51	
100	PI/2 BPSK	270	0	23.53	23.70	23.59	
100	QPSK	1	1	24.11	24.20	24.16	25.5
100	QPSK	1	137	24.07	24.15	24.15	
100	QPSK	1	271	23.20	23.60	23.70	
100	QPSK	135	0	23.36	23.21	23.42	25.0
100	QPSK	135	69	24.02	24.18	24.15	
100	QPSK	135	138	22.69	22.97	23.04	
100	QPSK	270	0	23.02	23.07	23.19	25.0
100	16QAM	1	1	23.10	23.09	23.20	
100	64QAM	1	1	21.50	21.54	21.69	
100	256QAM	1	1	19.57	19.62	19.75	21.5
Channel				649668	656000	662332	25.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.02	24.20	24.20	
Channel				649334	656000	662666	25.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.01	24.23	24.19	
Channel				649000	656000	663000	25.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.02	24.17	24.17	
Channel				648668	656000	663332	25.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.07	24.16	24.17	
Channel				648334	656000	663666	25.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.08	24.22	24.20	
Channel				648000	656000	664000	25.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.03	24.22	24.19	
Channel				647668	656000	664332	25.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.06	24.24	24.16	
Channel				647500	656000	664500	25.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.01	24.24	24.19	
Channel				647334	656000	664666	25.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.01	24.24	24.21	
Channel				647168	656000	664832	25.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.08	24.23	24.18	
Channel				647000	656000	665000	25.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.06	24.24	24.21	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	24.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.06	22.17	22.06	
100	PI/2 BPSK	1	137	22.04	22.16	22.05	24.0
100	PI/2 BPSK	1	271	22.01	22.09	22.02	
100	PI/2 BPSK	135	0	22.42	22.45	22.46	
100	PI/2 BPSK	135	69	22.39	22.51	22.43	24.0
100	PI/2 BPSK	135	138	22.26	22.32	22.27	24.0
100	PI/2 BPSK	270	0	22.39	22.49	22.46	
100	QPSK	1	1	22.06	22.15	22.14	
100	QPSK	1	137	22.04	22.07	22.05	24.0
100	QPSK	1	271	22.01	22.04	22.03	
100	QPSK	135	0	22.41	22.50	22.48	
100	QPSK	135	69	22.35	22.43	22.39	24.0
100	QPSK	135	138	22.24	22.30	22.26	24.0
100	QPSK	270	0	22.39	22.48	22.44	
100	16QAM	1	1	22.04	22.15	22.14	
100	64QAM	1	1	22.02	22.13	22.08	24.0
100	256QAM	1	1	20.55	20.56	20.54	22.2
Channel				649668	656000	662332	24.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.13	22.15	22.12	
Channel				649334	656000	662666	24.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.05	22.16	22.00	
Channel				649000	656000	663000	24.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.00	22.14	22.01	
Channel				648668	656000	663332	24.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.04	22.14	22.04	
Channel				648334	656000	663666	24.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.03	22.14	22.02	
Channel				648000	656000	664000	24.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.01	22.16	22.01	
Channel				647668	656000	664332	24.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.04	22.14	22.02	
Channel				647500	656000	664500	24.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.02	22.11	22.03	
Channel				647334	656000	664666	24.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.01	22.11	22.03	
Channel				647168	656000	664832	24.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.05	22.12	22.01	
Channel				647000	656000	665000	24.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.03	22.15	22.02	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	22.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.84	21.90	21.84	
100	PI/2 BPSK	1	137	21.83	21.89	21.81	22.5
100	PI/2 BPSK	1	271	21.41	21.49	21.45	
100	PI/2 BPSK	135	0	21.76	21.87	21.79	
100	PI/2 BPSK	135	69	21.81	21.88	21.80	22.5
100	PI/2 BPSK	135	138	21.67	21.68	21.59	22.5
100	PI/2 BPSK	270	0	21.69	21.79	21.75	
100	QPSK	1	1	21.80	21.82	21.80	
100	QPSK	1	137	21.80	21.88	21.80	22.5
100	QPSK	1	271	21.36	21.42	21.33	
100	QPSK	135	0	21.75	21.81	21.71	
100	QPSK	135	69	21.79	21.84	21.75	22.5
100	QPSK	135	138	21.61	21.64	21.52	22.5
100	QPSK	270	0	21.64	21.70	21.67	
100	16QAM	1	1	21.77	21.81	21.70	
100	64QAM	1	1	21.39	21.47	21.38	22.5
100	256QAM	1	1	19.51	19.56	19.51	21.5
Channel				649668	656000	662332	22.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.70	21.73	21.80	
Channel				649334	656000	662666	22.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.69	21.89	21.67	
Channel				649000	656000	663000	22.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.64	21.79	21.79	
Channel				648668	656000	663332	22.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.68	21.72	21.78	
Channel				648334	656000	663666	22.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.71	21.80	21.71	
Channel				648000	656000	664000	22.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.82	21.80	21.77	
Channel				647668	656000	664332	22.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.67	21.89	21.70	
Channel				647500	656000	664500	22.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.81	21.84	21.66	
Channel				647334	656000	664666	22.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.64	21.74	21.77	
Channel				647168	656000	664832	22.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.69	21.81	21.68	
Channel				647000	656000	665000	22.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.80	21.73	21.74	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.64		25.1
100	PI/2 BPSK	1	137		23.63		
100	PI/2 BPSK	1	271		23.51		
100	PI/2 BPSK	135	0		23.59		24.7
100	PI/2 BPSK	135	69		24.11		25.1
100	PI/2 BPSK	135	138		23.25		24.0
100	PI/2 BPSK	270	0		23.58		
100	QPSK	1	1		23.59		25.1
100	QPSK	1	137		23.55		
100	QPSK	1	271		23.51		
100	QPSK	135	0		23.09		24.2
100	QPSK	135	69		24.10		25.1
100	QPSK	135	138		22.75		24.2
100	QPSK	270	0		23.09		
100	16QAM	1	1		22.62		24.2
100	64QAM	1	1		21.11		22.7
100	256QAM	1	1		19.15		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.55	23.58	23.54	25.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.60	23.63	23.58	25.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.59	23.58	23.54	25.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.54	23.63	23.62	25.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.55	23.58	23.60	25.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.61	23.58	23.62	25.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.61	23.60	23.56	25.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.54	23.58	23.58	25.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.56	23.63	23.58	25.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.62	23.62	23.57	25.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.62	23.60	23.60	25.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.52		15.6
100	PI/2 BPSK	1	137		14.09		
100	PI/2 BPSK	1	271		14.41		
100	PI/2 BPSK	135	0		14.49		15.6
100	PI/2 BPSK	135	69		14.53		15.6
100	PI/2 BPSK	135	138		14.16		15.6
100	PI/2 BPSK	270	0		14.55		
100	QPSK	1	1		14.25		15.6
100	QPSK	1	137		14.07		
100	QPSK	1	271		14.50		
100	QPSK	135	0		14.38		15.6
100	QPSK	135	69		14.31		15.6
100	QPSK	135	138		14.10		15.6
100	QPSK	270	0		14.46		
100	16QAM	1	1		14.25		15.6
100	64QAM	1	1		14.23		15.6
100	256QAM	1	1		14.27		15.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.34	14.41	14.35	15.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.36	14.40	14.34	15.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.37	14.40	14.29	15.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.35	14.41	14.31	15.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.39	14.47	14.35	15.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.36	14.46	14.31	15.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.33	14.47	14.30	15.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	14.32	14.46	14.34	15.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.37	14.42	14.33	15.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.34	14.44	14.35	15.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.33	14.41	14.40	15.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.85		23.0
100	PI/2 BPSK	1	137		21.84		
100	PI/2 BPSK	1	271		21.73		
100	PI/2 BPSK	135	0		22.27		23.0
100	PI/2 BPSK	135	69		22.28		23.0
100	PI/2 BPSK	135	138		22.03		24.0
100	PI/2 BPSK	270	0		22.25		
100	QPSK	1	1		21.82		23.0
100	QPSK	1	137		21.80		
100	QPSK	1	271		21.72		
100	QPSK	135	0		22.24		23.0
100	QPSK	135	69		22.26		23.0
100	QPSK	135	138		21.93		23.0
100	QPSK	270	0		22.25		
100	16QAM	1	1		21.80		23.0
100	64QAM	1	1		20.96		22.7
100	256QAM	1	1		19.01		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.69	21.79	21.80	23.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.72	21.70	21.74	23.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.70	21.68	21.74	23.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.66	21.76	21.82	23.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.72	21.77	21.79	23.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.71	21.65	21.73	23.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.82	21.77	21.66	23.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.80	21.75	21.79	23.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.72	21.68	21.65	23.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.74	21.69	21.72	23.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.74	21.78	21.67	23.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.52		14.9
100	PI/2 BPSK	1	137		14.09		
100	PI/2 BPSK	1	271		14.41		
100	PI/2 BPSK	135	0		14.49		14.9
100	PI/2 BPSK	135	69		14.53		14.9
100	PI/2 BPSK	135	138		14.16		14.9
100	PI/2 BPSK	270	0		14.55		
100	QPSK	1	1		14.25		14.9
100	QPSK	1	137		14.07		
100	QPSK	1	271		14.50		
100	QPSK	135	0		14.38		14.9
100	QPSK	135	69		14.31		14.9
100	QPSK	135	138		14.10		14.9
100	QPSK	270	0		14.46		
100	16QAM	1	1		14.25		14.9
100	64QAM	1	1		14.23		14.9
100	256QAM	1	1		14.27		14.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.34	14.41	14.35	14.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.36	14.40	14.34	14.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.37	14.40	14.29	14.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.35	14.41	14.31	14.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.39	14.47	14.35	14.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.36	14.46	14.31	14.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.33	14.47	14.30	14.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	14.32	14.46	14.34	14.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.37	14.42	14.33	14.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.34	14.44	14.35	14.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.33	14.41	14.40	14.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.36		19.5
100	PI/2 BPSK	1	137		18.31		
100	PI/2 BPSK	1	271		18.25		
100	PI/2 BPSK	135	0		18.69		19.5
100	PI/2 BPSK	135	69		18.70		19.5
100	PI/2 BPSK	135	138		18.33		19.5
100	PI/2 BPSK	270	0		18.66		
100	QPSK	1	1		18.28		19.5
100	QPSK	1	137		18.25		
100	QPSK	1	271		18.22		
100	QPSK	135	0		18.59		19.5
100	QPSK	135	69		18.60		19.5
100	QPSK	135	138		18.27		19.5
100	QPSK	270	0		18.57		
100	16QAM	1	1		18.33		19.5
100	64QAM	1	1		18.26		19.5
100	256QAM	1	1		18.32		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.24	18.34	18.23	19.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.23	18.32	18.25	19.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.30	18.26	18.30	19.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.26	18.33	18.20	19.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.29	18.28	18.29	19.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.26	18.33	18.26	19.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.25	18.29	18.24	19.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.24	18.33	18.27	19.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.26	18.31	18.20	19.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.24	18.24	18.22	19.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.28	18.25	18.21	19.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.60		21.7
100	PI/2 BPSK	1	137		21.10		
100	PI/2 BPSK	1	271		21.59		
100	PI/2 BPSK	135	0		21.58		21.7
100	PI/2 BPSK	135	69		21.59		21.7
100	PI/2 BPSK	135	138		21.58		21.7
100	PI/2 BPSK	270	0		21.69		
100	QPSK	1	1		21.54		21.7
100	QPSK	1	137		21.25		
100	QPSK	1	271		21.54		
100	QPSK	135	0		21.55		21.7
100	QPSK	135	69		21.61		21.7
100	QPSK	135	138		21.25		21.7
100	QPSK	270	0		21.66		
100	16QAM	1	1		21.64		21.7
100	64QAM	1	1		21.56		21.7
100	256QAM	1	1		19.65		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.42	21.47	21.42	21.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.41	21.48	21.43	21.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.43	21.51	21.45	21.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.44	21.51	21.43	21.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.40	21.54	21.39	21.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.48	21.50	21.39	21.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.44	21.46	21.48	21.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.48	21.45	21.41	21.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.48	21.53	21.42	21.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.48	21.50	21.43	21.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.43	21.47	21.40	21.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.33		21.0
100	PI/2 BPSK	1	137		20.22		
100	PI/2 BPSK	1	271		20.15		
100	PI/2 BPSK	135	0		20.58		21.0
100	PI/2 BPSK	135	69		20.69		21.0
100	PI/2 BPSK	135	138		20.42		21.0
100	PI/2 BPSK	270	0		20.67		
100	QPSK	1	1		20.08		21.0
100	QPSK	1	137		20.26		
100	QPSK	1	271		20.17		
100	QPSK	135	0		20.67		21.0
100	QPSK	135	69		20.58		21.0
100	QPSK	135	138		20.49		21.0
100	QPSK	270	0		20.62		
100	16QAM	1	1		20.05		21.0
100	64QAM	1	1		20.02		21.0
100	256QAM	1	1		19.26		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.72	19.95	19.99	21.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.67	19.98	20.01	21.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.72	19.98	19.98	21.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.68	19.97	19.99	21.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.68	19.99	20.00	21.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.70	19.96	19.99	21.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.69	19.99	19.98	21.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.69	19.94	20.01	21.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.70	19.94	19.98	21.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.71	19.94	19.98	21.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.69	19.94	19.97	21.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.60		22.9
100	PI/2 BPSK	1	137		21.10		
100	PI/2 BPSK	1	271		21.59		
100	PI/2 BPSK	135	0		21.58		22.9
100	PI/2 BPSK	135	69		21.59		22.9
100	PI/2 BPSK	135	138		21.58		22.9
100	PI/2 BPSK	270	0		21.69		
100	QPSK	1	1		21.54		22.9
100	QPSK	1	137		21.25		
100	QPSK	1	271		21.54		
100	QPSK	135	0		21.55		22.9
100	QPSK	135	69		21.61		22.9
100	QPSK	135	138		21.25		22.9
100	QPSK	270	0		21.66		
100	16QAM	1	1		21.64		22.9
100	64QAM	1	1		21.56		22.7
100	256QAM	1	1		19.65		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.42	21.47	21.42	22.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.41	21.48	21.43	22.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.43	21.51	21.45	22.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.44	21.51	21.43	22.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.40	21.54	21.39	22.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.48	21.50	21.39	22.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.44	21.46	21.48	22.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.48	21.45	21.41	22.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.48	21.53	21.42	22.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.48	21.50	21.43	22.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.43	21.47	21.40	22.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.33		21.0
100	PI/2 BPSK	1	137		20.22		
100	PI/2 BPSK	1	271		20.15		
100	PI/2 BPSK	135	0		20.58		21.0
100	PI/2 BPSK	135	69		20.69		21.0
100	PI/2 BPSK	135	138		20.42		21.0
100	PI/2 BPSK	270	0		20.67		
100	QPSK	1	1		20.08		21.0
100	QPSK	1	137		20.26		
100	QPSK	1	271		20.17		
100	QPSK	135	0		20.67		21.0
100	QPSK	135	69		20.58		21.0
100	QPSK	135	138		20.49		21.0
100	QPSK	270	0		20.62		
100	16QAM	1	1		20.05		21.0
100	64QAM	1	1		20.02		21.0
100	256QAM	1	1		19.26		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.72	19.95	19.99	21.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.67	19.98	20.01	21.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.72	19.98	19.98	21.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.68	19.97	19.99	21.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.68	19.99	20.00	21.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.70	19.96	19.99	21.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.69	19.99	19.98	21.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.69	19.94	20.01	21.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.70	19.94	19.98	21.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.71	19.94	19.98	21.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.69	19.94	19.97	21.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.60		21.7
100	PI/2 BPSK	1	137		21.10		
100	PI/2 BPSK	1	271		21.59		
100	PI/2 BPSK	135	0		21.58		21.7
100	PI/2 BPSK	135	69		21.59		21.7
100	PI/2 BPSK	135	138		21.58		21.7
100	PI/2 BPSK	270	0		21.69		
100	QPSK	1	1		21.54		21.7
100	QPSK	1	137		21.25		
100	QPSK	1	271		21.54		
100	QPSK	135	0		21.55		21.7
100	QPSK	135	69		21.61		21.7
100	QPSK	135	138		21.25		21.7
100	QPSK	270	0		21.66		
100	16QAM	1	1		21.64		21.7
100	64QAM	1	1		21.56		21.7
100	256QAM	1	1		19.65		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.42	21.47	21.42	21.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.41	21.48	21.43	21.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.43	21.51	21.45	21.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.44	21.51	21.43	21.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.40	21.54	21.39	21.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.48	21.50	21.39	21.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.44	21.46	21.48	21.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.48	21.45	21.41	21.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.48	21.53	21.42	21.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.48	21.50	21.43	21.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.43	21.47	21.40	21.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.29		26.7
100	PI/2 BPSK	1	137		25.22		
100	PI/2 BPSK	1	271		25.18		
100	PI/2 BPSK	135	0		25.22		26.2
100	PI/2 BPSK	135	69		25.83		26.7
100	PI/2 BPSK	135	138		24.96		26.2
100	PI/2 BPSK	270	0		25.29		
100	QPSK	1	1		25.25		26.7
100	QPSK	1	137		25.23		
100	QPSK	1	271		25.22		
100	QPSK	135	0		24.80		25.7
100	QPSK	135	69		25.82		26.7
100	QPSK	135	138		24.45		25.7
100	QPSK	270	0		24.77		
100	16QAM	1	1		24.29		25.7
100	64QAM	1	1		22.74		24.2
100	256QAM	1	1		20.84		22.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.19	25.22	25.11	26.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.07	25.09	24.98	26.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.07	25.09	25.00	26.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.12	25.09	25.03	26.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.08	25.14	25.01	26.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.13	25.15	24.99	26.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.13	25.11	25.04	26.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.06	25.10	25.04	26.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.07	25.13	25.01	26.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.07	25.11	25.03	26.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.10	25.09	25.01	26.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		18.2
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.48		18.2
100	PI/2 BPSK	1	137		16.42		
100	PI/2 BPSK	1	271		15.86		
100	PI/2 BPSK	135	0		16.40		18.2
100	PI/2 BPSK	135	69		16.41		18.2
100	PI/2 BPSK	135	138		16.12		18.2
100	PI/2 BPSK	270	0		16.34		
100	QPSK	1	1		16.46		18.2
100	QPSK	1	137		16.44		
100	QPSK	1	271		15.85		
100	QPSK	135	0		16.39		18.2
100	QPSK	135	69		16.35		18.2
100	QPSK	135	138		16.12		18.2
100	QPSK	270	0		16.30		
100	16QAM	1	1		16.44		18.2
100	64QAM	1	1		16.39		18.2
100	256QAM	1	1		16.40		18.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.39	16.38	16.37	18.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.32	16.38	16.37	18.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.42	16.34	16.35	18.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.30	16.34	16.37	18.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.42	16.43	16.37	18.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.33	16.44	16.43	18.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.35	16.42	16.31	18.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.33	16.46	16.40	18.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.38	16.47	16.40	18.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.32	16.47	16.39	18.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.34	16.44	16.41	18.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.29		26.0
100	PI/2 BPSK	1	137		25.22		
100	PI/2 BPSK	1	271		25.18		
100	PI/2 BPSK	135	0		25.22		26.0
100	PI/2 BPSK	135	69		25.83		26.0
100	PI/2 BPSK	135	138		24.96		26.0
100	PI/2 BPSK	270	0		25.29		
100	QPSK	1	1		25.25		26.0
100	QPSK	1	137		25.23		
100	QPSK	1	271		25.22		
100	QPSK	135	0		24.80		25.7
100	QPSK	135	69		25.82		26.0
100	QPSK	135	138		24.45		25.7
100	QPSK	270	0		24.77		
100	16QAM	1	1		24.29		25.7
100	64QAM	1	1		22.74		24.2
100	256QAM	1	1		20.84		22.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.19	25.22	25.11	26.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.07	25.09	24.98	26.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.07	25.09	25.00	26.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.12	25.09	25.03	26.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.08	25.14	25.01	26.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.13	25.15	24.99	26.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.13	25.11	25.04	26.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.06	25.10	25.04	26.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.07	25.13	25.01	26.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.07	25.11	25.03	26.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.10	25.09	25.01	26.0



<FR1 n77_HPUE_Ant 5_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.48		17.5
100	PI/2 BPSK	1	137		16.42		
100	PI/2 BPSK	1	271		15.86		
100	PI/2 BPSK	135	0		16.40		17.5
100	PI/2 BPSK	135	69		16.41		17.5
100	PI/2 BPSK	135	138		16.12		17.5
100	PI/2 BPSK	270	0		16.34		
100	QPSK	1	1		16.46		17.5
100	QPSK	1	137		16.44		
100	QPSK	1	271		15.85		
100	QPSK	135	0		16.39		17.5
100	QPSK	135	69		16.35		17.5
100	QPSK	135	138		16.12		17.5
100	QPSK	270	0		16.30		
100	16QAM	1	1		16.44		17.5
100	64QAM	1	1		16.39		17.5
100	256QAM	1	1		16.40		17.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.39	16.38	16.37	17.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.32	16.38	16.37	17.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.42	16.34	16.35	17.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.30	16.34	16.37	17.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.42	16.43	16.37	17.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.33	16.44	16.43	17.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.35	16.42	16.31	17.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.33	16.46	16.40	17.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.38	16.47	16.40	17.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.32	16.47	16.39	17.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.34	16.44	16.41	17.5



<FR1 n77_HPUE_Ant 2_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		22.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.30		
100	PI/2 BPSK	1	137		21.22		22.5
100	PI/2 BPSK	1	271		21.29		
100	PI/2 BPSK	135	0		21.60		
100	PI/2 BPSK	135	69		21.64		22.5
100	PI/2 BPSK	135	138		21.53		22.5
100	PI/2 BPSK	270	0		21.68		
100	QPSK	1	1		21.25		
100	QPSK	1	137		21.22		22.5
100	QPSK	1	271		21.11		
100	QPSK	135	0		21.57		
100	QPSK	135	69		21.60		22.5
100	QPSK	135	138		21.49		22.5
100	QPSK	270	0		21.62		
100	16QAM	1	1		21.15		
100	64QAM	1	1		21.19		22.5
100	256QAM	1	1		21.15		22.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.13	21.23	21.17	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.09	21.17	21.13	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.10	21.18	21.15	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.16	21.20	21.13	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.10	21.19	21.17	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.15	21.18	21.17	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.14	21.21	21.13	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.07	21.20	21.20	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.18	21.15	21.15	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.12	21.24	21.21	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.09	21.15	21.11	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.54		22.5
100	PI/2 BPSK	1	137		21.52		
100	PI/2 BPSK	1	271		21.20		
100	PI/2 BPSK	135	0		21.59		22.5
100	PI/2 BPSK	135	69		21.60		22.5
100	PI/2 BPSK	135	138		21.33		22.5
100	PI/2 BPSK	270	0		21.55		
100	QPSK	1	1		21.49		22.5
100	QPSK	1	137		21.47		
100	QPSK	1	271		21.15		
100	QPSK	135	0		21.49		22.5
100	QPSK	135	69		21.50		22.5
100	QPSK	135	138		21.29		22.5
100	QPSK	270	0		21.46		
100	16QAM	1	1		21.52		22.5
100	64QAM	1	1		21.13		22.5
100	256QAM	1	1		19.61		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.52	21.48	21.40	22.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.44	21.51	21.41	22.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.47	21.44	21.38	22.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.52	21.51	21.41	22.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.42	21.44	21.48	22.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.42	21.46	21.44	22.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.43	21.47	21.48	22.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.45	21.46	21.45	22.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.50	21.50	21.46	22.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.49	21.45	21.45	22.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.51	21.49	21.45	22.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.28		24.0
100	PI/2 BPSK	1	137		22.21		
100	PI/2 BPSK	1	271		22.19		
100	PI/2 BPSK	135	0		22.55		24.0
100	PI/2 BPSK	135	69		22.71		24.0
100	PI/2 BPSK	135	138		22.51		24.0
100	PI/2 BPSK	270	0		22.63		
100	QPSK	1	1		22.33		24.0
100	QPSK	1	137		22.26		
100	QPSK	1	271		22.20		
100	QPSK	135	0		22.66		24.0
100	QPSK	135	69		22.59		24.0
100	QPSK	135	138		22.45		24.0
100	QPSK	270	0		22.59		
100	16QAM	1	1		22.11		24.0
100	64QAM	1	1		22.03		24.0
100	256QAM	1	1		20.74		22.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.08	22.09	22.07	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.08	22.05	22.05	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.05	22.10	22.03	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.07	22.05	22.04	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.05	22.10	22.07	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.03	22.08	22.07	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.07	22.09	22.05	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.03	22.06	22.03	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.03	22.08	22.02	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.03	22.06	22.04	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.04	22.06	22.02	24.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.67		25.5
100	PI/2 BPSK	1	137		24.64		
100	PI/2 BPSK	1	271		23.96		
100	PI/2 BPSK	135	0		24.02		25.5
100	PI/2 BPSK	135	69		24.60		25.5
100	PI/2 BPSK	135	138		23.78		25.5
100	PI/2 BPSK	270	0		24.01		
100	QPSK	1	1		24.66		25.5
100	QPSK	1	137		24.62		
100	QPSK	1	271		24.07		
100	QPSK	135	0		23.54		25.0
100	QPSK	135	69		24.60		25.5
100	QPSK	135	138		23.29		25.0
100	QPSK	270	0		23.51		
100	16QAM	1	1		23.66		25.0
100	64QAM	1	1		21.86		23.5
100	256QAM	1	1		19.94		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.46	24.65	24.60	25.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.41	24.62	24.56	25.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.44	24.63	24.59	25.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.38	24.62	24.50	25.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.38	24.56	24.52	25.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.36	24.60	24.54	25.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.38	24.62	24.52	25.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.42	24.59	24.54	25.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.41	24.60	24.55	25.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.41	24.60	24.50	25.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.41	24.59	24.50	25.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.28		24.0
100	PI/2 BPSK	1	137		22.21		
100	PI/2 BPSK	1	271		22.19		
100	PI/2 BPSK	135	0		22.55		24.0
100	PI/2 BPSK	135	69		22.71		24.0
100	PI/2 BPSK	135	138		22.51		24.0
100	PI/2 BPSK	270	0		22.63		
100	QPSK	1	1		22.33		24.0
100	QPSK	1	137		22.26		
100	QPSK	1	271		22.20		
100	QPSK	135	0		22.66		24.0
100	QPSK	135	69		22.59		24.0
100	QPSK	135	138		22.45		24.0
100	QPSK	270	0		22.59		
100	16QAM	1	1		22.11		24.0
100	64QAM	1	1		22.03		24.0
100	256QAM	1	1		20.74		22.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.08	22.09	22.07	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.08	22.05	22.05	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.05	22.10	22.03	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.07	22.05	22.04	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.05	22.10	22.07	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.03	22.08	22.07	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.07	22.09	22.05	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.03	22.06	22.03	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.03	22.08	22.02	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.03	22.06	22.04	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.04	22.06	22.02	24.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.54		22.5
100	PI/2 BPSK	1	137		21.52		
100	PI/2 BPSK	1	271		21.20		
100	PI/2 BPSK	135	0		21.59		22.5
100	PI/2 BPSK	135	69		21.60		22.5
100	PI/2 BPSK	135	138		21.33		22.5
100	PI/2 BPSK	270	0		21.55		
100	QPSK	1	1		21.49		22.5
100	QPSK	1	137		21.47		
100	QPSK	1	271		21.15		
100	QPSK	135	0		21.49		22.5
100	QPSK	135	69		21.50		22.5
100	QPSK	135	138		21.29		22.5
100	QPSK	270	0		21.46		
100	16QAM	1	1		21.52		22.5
100	64QAM	1	1		21.13		22.5
100	256QAM	1	1		19.61		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.52	21.48	21.40	22.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.44	21.51	21.41	22.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.47	21.44	21.38	22.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.52	21.51	21.41	22.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.42	21.44	21.48	22.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.42	21.46	21.44	22.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.43	21.47	21.48	22.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.45	21.46	21.45	22.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.50	21.50	21.46	22.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.49	21.45	21.45	22.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.51	21.49	21.45	22.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.32		25.1
100	PI/2 BPSK	1	137		23.25		
100	PI/2 BPSK	1	271		23.28		
100	PI/2 BPSK	135	0		23.56		24.7
100	PI/2 BPSK	135	69		24.01		25.1
100	PI/2 BPSK	135	138		23.24		24.7
100	PI/2 BPSK	270	0		23.45		
100	QPSK	1	1		23.25		25.1
100	QPSK	1	137		23.31		
100	QPSK	1	271		23.29		
100	QPSK	135	0		23.05		24.2
100	QPSK	135	69		24.00		25.1
100	QPSK	135	138		22.78		24.2
100	QPSK	270	0		22.97		
100	16QAM	1	1		22.33		24.2
100	64QAM	1	1		20.77		22.7
100	256QAM	1	1		18.81		20.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.22	23.27	23.24	25.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.25	23.31	23.30	25.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.27	23.22	23.25	25.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.25	23.25	23.27	25.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.28	23.24	23.24	25.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.30	23.24	23.26	25.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.28	23.27	23.22	25.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.23	23.28	23.26	25.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.22	23.28	23.31	25.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.23	23.23	23.26	25.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.22	23.24	23.31	25.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		14.30		15.6
100	PI/2 BPSK	1	137		13.91		
100	PI/2 BPSK	1	271		14.13		
100	PI/2 BPSK	135	0		14.19		15.6
100	PI/2 BPSK	135	69		14.29		15.6
100	PI/2 BPSK	135	138		13.93		15.6
100	PI/2 BPSK	270	0		14.33		
100	QPSK	1	1		14.20		15.6
100	QPSK	1	137		14.10		
100	QPSK	1	271		14.25		
100	QPSK	135	0		14.15		15.6
100	QPSK	135	69		14.03		15.6
100	QPSK	135	138		14.10		15.6
100	QPSK	270	0		14.21		
100	16QAM	1	1		13.94		15.6
100	64QAM	1	1		14.02		15.6
100	256QAM	1	1		14.01		15.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	14.20	14.21	14.15	15.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	14.16	14.25	14.16	15.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	14.16	14.22	14.13	15.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	14.15	14.23	14.10	15.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	14.17	14.18	14.11	15.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	14.16	14.19	14.18	15.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	14.14	14.24	14.10	15.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	14.20	14.19	14.12	15.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	14.17	14.20	14.15	15.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	14.16	14.21	14.10	15.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	14.23	14.16	14.25	15.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.51		23.0
100	PI/2 BPSK	1	137		21.88		
100	PI/2 BPSK	1	271		21.85		
100	PI/2 BPSK	135	0		22.30		23.0
100	PI/2 BPSK	135	69		22.26		23.0
100	PI/2 BPSK	135	138		21.98		23.0
100	PI/2 BPSK	270	0		22.18		
100	QPSK	1	1		21.48		23.0
100	QPSK	1	137		21.79		
100	QPSK	1	271		21.77		
100	QPSK	135	0		22.29		23.0
100	QPSK	135	69		22.25		23.0
100	QPSK	135	138		21.98		23.0
100	QPSK	270	0		22.17		
100	16QAM	1	1		21.46		23.0
100	64QAM	1	1		21.03		22.7
100	256QAM	1	1		18.86		20.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.51	21.38	21.48	23.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.46	21.42	21.45	23.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.47	21.31	21.33	23.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.34	21.43	21.32	23.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.36	21.42	21.37	23.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.32	21.33	21.46	23.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.41	21.42	21.47	23.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.36	21.46	21.41	23.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)							
20	PI/2 BPSK	1	1	21.35	21.33	21.33	23.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.33	21.36	21.44	23.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.42	21.50	21.45	23.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		14.30		14.9
100	PI/2 BPSK	1	137		13.91		
100	PI/2 BPSK	1	271		14.13		
100	PI/2 BPSK	135	0		14.19		14.9
100	PI/2 BPSK	135	69		14.29		14.9
100	PI/2 BPSK	135	138		13.93		14.9
100	PI/2 BPSK	270	0		14.33		
100	QPSK	1	1		14.20		14.9
100	QPSK	1	137		14.10		
100	QPSK	1	271		14.25		
100	QPSK	135	0		14.15		14.9
100	QPSK	135	69		14.03		14.9
100	QPSK	135	138		14.10		14.9
100	QPSK	270	0		14.21		
100	16QAM	1	1		13.94		14.9
100	64QAM	1	1		14.02		14.9
100	256QAM	1	1		14.01		14.9
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	14.20	14.21	14.15	14.9
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	14.16	14.25	14.16	14.9
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	14.16	14.22	14.13	14.9
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	14.15	14.23	14.10	14.9
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	14.17	14.18	14.11	14.9
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	14.16	14.19	14.18	14.9
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	14.14	14.24	14.10	14.9
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	14.20	14.19	14.12	14.9
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	14.17	14.20	14.15	14.9
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	14.16	14.21	14.10	14.9
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	14.23	14.16	14.25	14.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		18.05		19.5
100	PI/2 BPSK	1	137		18.04		
100	PI/2 BPSK	1	271		17.99		
100	PI/2 BPSK	135	0		18.23		19.5
100	PI/2 BPSK	135	69		18.20		19.5
100	PI/2 BPSK	135	138		18.06		19.5
100	PI/2 BPSK	270	0		18.26		
100	QPSK	1	1		18.03		19.5
100	QPSK	1	137		17.94		
100	QPSK	1	271		17.97		
100	QPSK	135	0		18.36		19.5
100	QPSK	135	69		18.33		19.5
100	QPSK	135	138		18.06		19.5
100	QPSK	270	0		18.27		
100	16QAM	1	1		18.11		19.5
100	64QAM	1	1		17.99		19.5
100	256QAM	1	1		18.08		19.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	17.95	17.90	17.93	19.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	17.89	18.00	17.98	19.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	17.89	17.99	17.91	19.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	17.94	17.90	17.91	19.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	17.89	18.00	17.97	19.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	17.94	17.99	17.94	19.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	17.90	17.96	17.89	19.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	17.90	17.90	17.92	19.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	17.90	17.95	17.97	19.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	17.92	17.90	17.95	19.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	17.88	17.93	17.95	19.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.56		21.7
100	PI/2 BPSK	1	137		20.96		
100	PI/2 BPSK	1	271		21.38		
100	PI/2 BPSK	135	0		21.45		21.7
100	PI/2 BPSK	135	69		21.47		21.7
100	PI/2 BPSK	135	138		21.39		21.7
100	PI/2 BPSK	270	0		21.57		
100	QPSK	1	1		21.41		21.7
100	QPSK	1	137		21.14		
100	QPSK	1	271		21.40		
100	QPSK	135	0		21.41		21.7
100	QPSK	135	69		21.49		21.7
100	QPSK	135	138		21.10		21.7
100	QPSK	270	0		21.56		
100	16QAM	1	1		21.42		21.7
100	64QAM	1	1		21.42		21.7
100	256QAM	1	1		19.49		20.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.42	21.43	21.43	21.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.41	21.48	21.42	21.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.38	21.44	21.41	21.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.37	21.44	21.43	21.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.41	21.42	21.48	21.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.39	21.42	21.48	21.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.38	21.51	21.43	21.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.40	21.45	21.39	21.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.43	21.42	21.41	21.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.45	21.45	21.39	21.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.44	21.51	21.43	21.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.06		21.0
100	PI/2 BPSK	1	137		20.03		
100	PI/2 BPSK	1	271		19.94		
100	PI/2 BPSK	135	0		20.40		21.0
100	PI/2 BPSK	135	69		20.49		21.0
100	PI/2 BPSK	135	138		20.28		21.0
100	PI/2 BPSK	270	0		20.43		
100	QPSK	1	1		19.83		21.0
100	QPSK	1	137		19.98		
100	QPSK	1	271		20.02		
100	QPSK	135	0		20.46		21.0
100	QPSK	135	69		20.39		21.0
100	QPSK	135	138		20.25		21.0
100	QPSK	270	0		20.44		
100	16QAM	1	1		19.86		21.0
100	64QAM	1	1		19.80		21.0
100	256QAM	1	1		19.00		20.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.97	20.02	19.94	21.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.96	20.00	19.99	21.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.96	19.99	19.94	21.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.97	20.02	19.97	21.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.99	19.99	19.98	21.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.97	19.98	19.99	21.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.94	19.97	19.97	21.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.99	19.97	19.94	21.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.01	20.00	19.96	21.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.96	20.02	19.98	21.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.97	19.98	19.99	21.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.56		22.9
100	PI/2 BPSK	1	137		20.96		
100	PI/2 BPSK	1	271		21.38		
100	PI/2 BPSK	135	0		21.45		22.9
100	PI/2 BPSK	135	69		21.47		22.9
100	PI/2 BPSK	135	138		21.39		22.9
100	PI/2 BPSK	270	0		21.57		
100	QPSK	1	1		21.41		22.9
100	QPSK	1	137		21.14		
100	QPSK	1	271		21.40		
100	QPSK	135	0		21.41		22.9
100	QPSK	135	69		21.49		22.9
100	QPSK	135	138		21.10		22.9
100	QPSK	270	0		21.56		
100	16QAM	1	1		21.42		22.9
100	64QAM	1	1		21.42		22.7
100	256QAM	1	1		19.49		20.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.42	21.43	21.43	22.9
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.41	21.48	21.42	22.9
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.38	21.44	21.41	22.9
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.37	21.44	21.43	22.9
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.41	21.42	21.48	22.9
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.39	21.42	21.48	22.9
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.38	21.51	21.43	22.9
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.40	21.45	21.39	22.9
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.43	21.42	21.41	22.9
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.45	21.45	21.39	22.9
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.44	21.51	21.43	22.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.06		21.0
100	PI/2 BPSK	1	137		20.03		
100	PI/2 BPSK	1	271		19.94		
100	PI/2 BPSK	135	0		20.40		21.0
100	PI/2 BPSK	135	69		20.49		21.0
100	PI/2 BPSK	135	138		20.28		21.0
100	PI/2 BPSK	270	0		20.43		
100	QPSK	1	1		19.83		21.0
100	QPSK	1	137		19.98		
100	QPSK	1	271		20.02		
100	QPSK	135	0		20.46		21.0
100	QPSK	135	69		20.39		21.0
100	QPSK	135	138		20.25		21.0
100	QPSK	270	0		20.44		
100	16QAM	1	1		19.86		21.0
100	64QAM	1	1		19.80		21.0
100	256QAM	1	1		19.00		20.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.97	20.02	19.94	21.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.96	20.00	19.99	21.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.96	19.99	19.94	21.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.97	20.02	19.97	21.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.99	19.99	19.98	21.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.97	19.98	19.99	21.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.94	19.97	19.97	21.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.99	19.97	19.94	21.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.01	20.00	19.96	21.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.96	20.02	19.98	21.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.97	19.98	19.99	21.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.56		21.7
100	PI/2 BPSK	1	137		20.96		
100	PI/2 BPSK	1	271		21.38		
100	PI/2 BPSK	135	0		21.45		21.7
100	PI/2 BPSK	135	69		21.47		21.7
100	PI/2 BPSK	135	138		21.39		21.7
100	PI/2 BPSK	270	0		21.57		
100	QPSK	1	1		21.41		21.7
100	QPSK	1	137		21.14		
100	QPSK	1	271		21.40		
100	QPSK	135	0		21.41		21.7
100	QPSK	135	69		21.49		21.7
100	QPSK	135	138		21.10		21.7
100	QPSK	270	0		21.56		
100	16QAM	1	1		21.42		21.7
100	64QAM	1	1		21.42		21.7
100	256QAM	1	1		19.49		20.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.42	21.43	21.43	21.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.41	21.48	21.42	21.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.38	21.44	21.41	21.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.37	21.44	21.43	21.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.41	21.42	21.48	21.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.39	21.42	21.48	21.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.38	21.51	21.43	21.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.40	21.45	21.39	21.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.43	21.42	21.41	21.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.45	21.45	21.39	21.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.44	21.51	21.43	21.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		25.21		26.7
100	PI/2 BPSK	1	137		25.20		
100	PI/2 BPSK	1	271		25.04		
100	PI/2 BPSK	135	0		25.50		26.2
100	PI/2 BPSK	135	69		25.72		26.7
100	PI/2 BPSK	135	138		24.89		26.2
100	PI/2 BPSK	270	0		25.18		
100	QPSK	1	1		25.13		26.7
100	QPSK	1	137		25.33		
100	QPSK	1	271		25.05		
100	QPSK	135	0		25.00		25.7
100	QPSK	135	69		25.70		26.7
100	QPSK	135	138		24.44		25.7
100	QPSK	270	0		24.71		
100	16QAM	1	1		24.20		25.7
100	64QAM	1	1		22.66		24.2
100	256QAM	1	1		20.73		22.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	25.11	25.18	25.13	26.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.01	25.08	25.01	26.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.97	25.06	25.00	26.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.95	25.03	24.97	26.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.98	25.05	24.98	26.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.00	25.02	24.98	26.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.99	25.04	25.01	26.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.97	25.05	24.98	26.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.95	25.04	25.01	26.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.95	25.08	24.98	26.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.98	25.08	24.99	26.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		17.01		18.2
100	PI/2 BPSK	1	137		16.91		
100	PI/2 BPSK	1	271		16.26		
100	PI/2 BPSK	135	0		16.90		18.2
100	PI/2 BPSK	135	69		16.94		18.2
100	PI/2 BPSK	135	138		16.52		18.2
100	PI/2 BPSK	270	0		16.85		
100	QPSK	1	1		16.96		18.2
100	QPSK	1	137		16.90		
100	QPSK	1	271		16.25		
100	QPSK	135	0		16.92		18.2
100	QPSK	135	69		16.86		18.2
100	QPSK	135	138		16.52		18.2
100	QPSK	270	0		16.84		
100	16QAM	1	1		16.96		18.2
100	64QAM	1	1		16.93		18.2
100	256QAM	1	1		16.95		18.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	16.90	16.91	16.80	18.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	16.87	16.96	16.86	18.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	16.87	16.91	16.82	18.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	16.92	16.97	16.86	18.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	16.80	16.94	16.84	18.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	16.85	16.91	16.78	18.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	16.90	16.89	16.87	18.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	16.85	16.97	16.88	18.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	16.91	16.91	16.85	18.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	16.89	16.90	16.86	18.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	16.93	16.98	16.85	18.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		25.21		26.0
100	PI/2 BPSK	1	137		25.20		
100	PI/2 BPSK	1	271		25.04		
100	PI/2 BPSK	135	0		25.50		26.0
100	PI/2 BPSK	135	69		25.72		26.0
100	PI/2 BPSK	135	138		24.89		26.0
100	PI/2 BPSK	270	0		25.18		
100	QPSK	1	1		25.13		26.0
100	QPSK	1	137		25.33		
100	QPSK	1	271		25.05		
100	QPSK	135	0		25.00		25.7
100	QPSK	135	69		25.70		26.0
100	QPSK	135	138		24.44		25.7
100	QPSK	270	0		24.71		
100	16QAM	1	1		24.20		25.7
100	64QAM	1	1		22.66		24.2
100	256QAM	1	1		20.73		22.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	25.11	25.18	25.13	26.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.01	25.08	25.01	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.97	25.06	25.00	26.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.95	25.03	24.97	26.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.98	25.05	24.98	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.00	25.02	24.98	26.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.99	25.04	25.01	26.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.97	25.05	24.98	26.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.95	25.04	25.01	26.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.95	25.08	24.98	26.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.98	25.08	24.99	26.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		17.01		17.5
100	PI/2 BPSK	1	137		16.91		
100	PI/2 BPSK	1	271		16.26		
100	PI/2 BPSK	135	0		16.90		17.5
100	PI/2 BPSK	135	69		16.94		17.5
100	PI/2 BPSK	135	138		16.52		17.5
100	PI/2 BPSK	270	0		16.85		
100	QPSK	1	1		16.96		17.5
100	QPSK	1	137		16.90		
100	QPSK	1	271		16.25		
100	QPSK	135	0		16.92		17.5
100	QPSK	135	69		16.86		17.5
100	QPSK	135	138		16.52		17.5
100	QPSK	270	0		16.84		
100	16QAM	1	1		16.96		17.5
100	64QAM	1	1		16.93		17.5
100	256QAM	1	1		16.95		17.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	16.90	16.91	16.80	17.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	16.87	16.96	16.86	17.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	16.87	16.91	16.82	17.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	16.92	16.97	16.86	17.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	16.80	16.94	16.84	17.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	16.85	16.91	16.78	17.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	16.90	16.89	16.87	17.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	16.85	16.97	16.88	17.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	16.91	16.91	16.85	17.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	16.89	16.90	16.86	17.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	16.93	16.98	16.85	17.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.23		22.5
100	PI/2 BPSK	1	137		21.21		
100	PI/2 BPSK	1	271		21.18		
100	PI/2 BPSK	135	0		21.41		22.5
100	PI/2 BPSK	135	69		21.55		22.5
100	PI/2 BPSK	135	138		21.51		22.5
100	PI/2 BPSK	270	0		21.54		
100	QPSK	1	1		21.16		22.5
100	QPSK	1	137		21.17		
100	QPSK	1	271		21.06		
100	QPSK	135	0		21.43		22.5
100	QPSK	135	69		21.58		22.5
100	QPSK	135	138		21.34		22.5
100	QPSK	270	0		21.49		
100	16QAM	1	1		21.01		22.5
100	64QAM	1	1		21.05		22.5
100	256QAM	1	1		21.08		22.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.10	21.12	21.12	22.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.17	21.11	21.15	22.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.17	21.15	21.05	22.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.13	21.10	21.11	22.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.14	21.15	21.12	22.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.15	21.09	21.06	22.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.15	21.15	21.09	22.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.17	21.15	21.06	22.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.17	21.14	21.15	22.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.09	21.18	21.06	22.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.08	21.11	21.08	22.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.75		22.5
100	PI/2 BPSK	1	137		21.74		
100	PI/2 BPSK	1	271		21.29		
100	PI/2 BPSK	135	0		21.75		22.5
100	PI/2 BPSK	135	69		21.76		22.5
100	PI/2 BPSK	135	138		21.53		22.5
100	PI/2 BPSK	270	0		21.75		
100	QPSK	1	1		21.74		22.5
100	QPSK	1	137		21.84		
100	QPSK	1	271		21.37		
100	QPSK	135	0		21.78		22.5
100	QPSK	135	69		21.69		22.5
100	QPSK	135	138		21.49		22.5
100	QPSK	270	0		21.55		
100	16QAM	1	1		21.79		22.5
100	64QAM	1	1		21.39		22.5
100	256QAM	1	1		19.55		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.54	21.68	21.64	22.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.70	21.71	21.66	22.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.59	21.59	21.54	22.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.72	21.71	21.69	22.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.61	21.61	21.69	22.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.59	21.59	21.63	22.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.69	21.72	21.60	22.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.58	21.66	21.68	22.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.67	21.60	21.69	22.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.58	21.61	21.52	22.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.67	21.64	21.70	22.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.31		24.0
100	PI/2 BPSK	1	137		22.30		
100	PI/2 BPSK	1	271		22.16		
100	PI/2 BPSK	135	0		22.80		24.0
100	PI/2 BPSK	135	69		22.95		24.0
100	PI/2 BPSK	135	138		22.40		24.0
100	PI/2 BPSK	270	0		22.65		
100	QPSK	1	1		22.19		24.0
100	QPSK	1	137		22.27		
100	QPSK	1	271		22.08		
100	QPSK	135	0		22.92		24.0
100	QPSK	135	69		22.67		24.0
100	QPSK	135	138		22.37		24.0
100	QPSK	270	0		22.64		
100	16QAM	1	1		22.20		24.0
100	64QAM	1	1		22.13		24.0
100	256QAM	1	1		20.88		22.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.34	22.22	22.22	24.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.28	22.14	22.12	24.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.28	22.13	22.12	24.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.27	22.15	22.12	24.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.29	22.16	22.16	24.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.24	22.16	22.14	24.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.25	22.17	22.16	24.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.25	22.14	22.15	24.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.24	22.17	22.13	24.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.27	22.14	22.16	24.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.26	22.12	22.13	24.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.11		25.5
100	PI/2 BPSK	1	137		24.07		
100	PI/2 BPSK	1	271		23.20		
100	PI/2 BPSK	135	0		23.58		25.5
100	PI/2 BPSK	135	69		24.06		25.5
100	PI/2 BPSK	135	138		23.17		25.5
100	PI/2 BPSK	270	0		23.50		
100	QPSK	1	1		24.09		25.5
100	QPSK	1	137		24.08		
100	QPSK	1	271		23.22		
100	QPSK	135	0		23.09		25.0
100	QPSK	135	69		24.05		25.5
100	QPSK	135	138		22.67		25.0
100	QPSK	270	0		23.00		
100	16QAM	1	1		23.11		25.0
100	64QAM	1	1		21.50		23.5
100	256QAM	1	1		19.53		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.55	23.56	23.38	25.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.54	23.53	23.31	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.51	23.51	23.34	25.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.46	23.50	23.32	25.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.52	23.49	23.33	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.48	23.50	23.37	25.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.45	23.54	23.28	25.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.52	23.55	23.30	25.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.53	23.46	23.32	25.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.49	23.51	23.28	25.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.54	23.52	23.37	25.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.31		24.0
100	PI/2 BPSK	1	137		22.30		
100	PI/2 BPSK	1	271		22.16		
100	PI/2 BPSK	135	0		22.80		24.0
100	PI/2 BPSK	135	69		22.95		24.0
100	PI/2 BPSK	135	138		22.40		24.0
100	PI/2 BPSK	270	0		22.65		
100	QPSK	1	1		22.19		24.0
100	QPSK	1	137		22.27		
100	QPSK	1	271		22.08		
100	QPSK	135	0		22.92		24.0
100	QPSK	135	69		22.67		24.0
100	QPSK	135	138		22.37		24.0
100	QPSK	270	0		22.64		
100	16QAM	1	1		22.20		24.0
100	64QAM	1	1		22.13		24.0
100	256QAM	1	1		20.88		22.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.34	22.22	22.22	24.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.28	22.14	22.12	24.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.28	22.13	22.12	24.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.27	22.15	22.12	24.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.29	22.16	22.16	24.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.24	22.16	22.14	24.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.25	22.17	22.16	24.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.25	22.14	22.15	24.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.24	22.17	22.13	24.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.27	22.14	22.16	24.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.26	22.12	22.13	24.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.75		22.5
100	PI/2 BPSK	1	137		21.74		
100	PI/2 BPSK	1	271		21.29		
100	PI/2 BPSK	135	0		21.75		22.5
100	PI/2 BPSK	135	69		21.76		22.5
100	PI/2 BPSK	135	138		21.53		22.5
100	PI/2 BPSK	270	0		21.75		
100	QPSK	1	1		21.74		22.5
100	QPSK	1	137		21.84		
100	QPSK	1	271		21.37		
100	QPSK	135	0		21.78		22.5
100	QPSK	135	69		21.69		22.5
100	QPSK	135	138		21.49		22.5
100	QPSK	270	0		21.55		
100	16QAM	1	1		21.79		22.5
100	64QAM	1	1		21.39		22.5
100	256QAM	1	1		19.55		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.54	21.68	21.64	22.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.70	21.71	21.66	22.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.59	21.59	21.54	22.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.72	21.71	21.69	22.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.61	21.61	21.69	22.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.59	21.59	21.63	22.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.69	21.72	21.60	22.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.58	21.66	21.68	22.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.67	21.60	21.69	22.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.58	21.61	21.52	22.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.67	21.64	21.70	22.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.64		25.1
100	PI/2 BPSK	1	137		23.62		
100	PI/2 BPSK	1	271		23.47		
100	PI/2 BPSK	135	0		23.55		24.7
100	PI/2 BPSK	135	69		24.06		25.1
100	PI/2 BPSK	135	138		23.20		24.7
100	PI/2 BPSK	270	0		23.53		
100	QPSK	1	1		23.59		25.1
100	QPSK	1	137		23.58		
100	QPSK	1	271		23.46		
100	QPSK	135	0		23.07		24.2
100	QPSK	135	69		24.05		25.1
100	QPSK	135	138		22.69		24.2
100	QPSK	270	0		23.05		
100	16QAM	1	1		22.58		24.2
100	64QAM	1	1		21.08		22.7
100	256QAM	1	1		19.17		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.49	23.55	23.56	25.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.55	23.60	23.60	25.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.63	23.61	23.60	25.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.62	23.60	23.56	25.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.56	23.59	23.54	25.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.62	23.62	23.58	25.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.63	23.57	23.60	25.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.59	23.55	23.63	25.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.57	23.59	23.63	25.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.63	23.57	23.56	25.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.56	23.58	23.63	25.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.48		15.6
100	PI/2 BPSK	1	137		14.11		
100	PI/2 BPSK	1	271		14.31		
100	PI/2 BPSK	135	0		14.38		15.6
100	PI/2 BPSK	135	69		14.52		15.6
100	PI/2 BPSK	135	138		14.26		15.6
100	PI/2 BPSK	270	0		14.53		
100	QPSK	1	1		14.40		15.6
100	QPSK	1	137		14.12		
100	QPSK	1	271		14.48		
100	QPSK	135	0		14.37		15.6
100	QPSK	135	69		14.24		15.6
100	QPSK	135	138		14.30		15.6
100	QPSK	270	0		14.45		
100	16QAM	1	1		14.29		15.6
100	64QAM	1	1		14.27		15.6
100	256QAM	1	1		14.26		15.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.27	14.42	14.28	15.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.33	14.42	14.29	15.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.31	14.37	14.29	15.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.27	14.40	14.28	15.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.31	14.36	14.35	15.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.35	14.39	14.33	15.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.31	14.42	14.28	15.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	14.33	14.41	14.33	15.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.32	14.38	14.32	15.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.28	14.35	14.34	15.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.30	14.36	14.29	15.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.97		23.0
100	PI/2 BPSK	1	137		21.95		
100	PI/2 BPSK	1	271		21.78		
100	PI/2 BPSK	135	0		22.31		23.0
100	PI/2 BPSK	135	69		22.32		23.0
100	PI/2 BPSK	135	138		21.96		23.0
100	PI/2 BPSK	270	0		22.28		
100	QPSK	1	1		21.91		23.0
100	QPSK	1	137		21.84		
100	QPSK	1	271		21.77		
100	QPSK	135	0		22.30		23.0
100	QPSK	135	69		22.28		23.0
100	QPSK	135	138		21.97		23.0
100	QPSK	270	0		22.28		
100	16QAM	1	1		21.90		23.0
100	64QAM	1	1		21.06		22.7
100	256QAM	1	1		19.10		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.84	21.79	21.80	23.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.85	21.85	21.77	23.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.96	21.89	21.78	23.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.90	21.86	21.96	23.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.97	21.85	21.83	23.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.87	21.89	21.95	23.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.96	21.81	21.89	23.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.90	21.92	21.86	23.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.83	21.87	21.92	23.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.88	21.90	21.85	23.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.97	21.85	21.91	23.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.48		14.9
100	PI/2 BPSK	1	137		14.11		
100	PI/2 BPSK	1	271		14.31		
100	PI/2 BPSK	135	0		14.38		14.9
100	PI/2 BPSK	135	69		14.52		14.9
100	PI/2 BPSK	135	138		14.26		14.9
100	PI/2 BPSK	270	0		14.53		
100	QPSK	1	1		14.40		14.9
100	QPSK	1	137		14.12		
100	QPSK	1	271		14.48		
100	QPSK	135	0		14.37		14.9
100	QPSK	135	69		14.24		14.9
100	QPSK	135	138		14.30		14.9
100	QPSK	270	0		14.45		
100	16QAM	1	1		14.29		14.9
100	64QAM	1	1		14.27		14.9
100	256QAM	1	1		14.26		14.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.27	14.42	14.28	14.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.33	14.42	14.29	14.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.31	14.37	14.29	14.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.27	14.40	14.28	14.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.31	14.36	14.35	14.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.35	14.39	14.33	14.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.31	14.42	14.28	14.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	14.33	14.41	14.33	14.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.32	14.38	14.32	14.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.28	14.35	14.34	14.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.30	14.36	14.29	14.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.09		19.5
100	PI/2 BPSK	1	137		18.01		
100	PI/2 BPSK	1	271		17.96		
100	PI/2 BPSK	135	0		18.20		19.5
100	PI/2 BPSK	135	69		18.24		19.5
100	PI/2 BPSK	135	138		18.12		19.5
100	PI/2 BPSK	270	0		18.17		
100	QPSK	1	1		18.03		19.5
100	QPSK	1	137		17.99		
100	QPSK	1	271		17.99		
100	QPSK	135	0		18.41		19.5
100	QPSK	135	69		18.30		19.5
100	QPSK	135	138		18.05		19.5
100	QPSK	270	0		18.39		
100	16QAM	1	1		18.15		19.5
100	64QAM	1	1		17.95		19.5
100	256QAM	1	1		18.12		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.98	18.04	17.95	19.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.95	18.04	17.98	19.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.99	17.96	17.98	19.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.01	18.01	17.95	19.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.96	17.97	18.00	19.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.92	17.95	17.94	19.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.98	17.99	17.92	19.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.98	18.03	17.98	19.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.95	17.99	18.01	19.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.98	17.95	17.93	19.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.97	17.98	17.98	19.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.48		21.7
100	PI/2 BPSK	1	137		20.96		
100	PI/2 BPSK	1	271		21.29		
100	PI/2 BPSK	135	0		21.30		21.7
100	PI/2 BPSK	135	69		21.38		21.7
100	PI/2 BPSK	135	138		21.25		21.7
100	PI/2 BPSK	270	0		21.47		
100	QPSK	1	1		21.26		21.7
100	QPSK	1	137		21.08		
100	QPSK	1	271		21.28		
100	QPSK	135	0		21.36		21.7
100	QPSK	135	69		21.43		21.7
100	QPSK	135	138		21.04		21.7
100	QPSK	270	0		21.46		
100	16QAM	1	1		21.30		21.7
100	64QAM	1	1		21.37		21.7
100	256QAM	1	1		19.40		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.33	21.35	21.33	21.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.30	21.40	21.39	21.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.37	21.40	21.38	21.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.31	21.37	21.39	21.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.35	21.33	21.37	21.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.38	21.37	21.37	21.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.39	21.34	21.38	21.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.34	21.41	21.38	21.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.37	21.41	21.38	21.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.30	21.33	21.32	21.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.34	21.43	21.36	21.7



<FR1 n78_Ant 2_Index 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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.07		21.0
100	PI/2 BPSK	1	137		20.05		
100	PI/2 BPSK	1	271		20.04		
100	PI/2 BPSK	135	0		20.27		21.0
100	PI/2 BPSK	135	69		20.25		21.0
100	PI/2 BPSK	135	138		20.14		21.0
100	PI/2 BPSK	270	0		20.29		
100	QPSK	1	1		20.10		21.0
100	QPSK	1	137		20.09		
100	QPSK	1	271		20.06		
100	QPSK	135	0		20.44		21.0
100	QPSK	135	69		20.39		21.0
100	QPSK	135	138		20.14		21.0
100	QPSK	270	0		20.44		
100	16QAM	1	1		20.11		21.0
100	64QAM	1	1		20.05		21.0
100	256QAM	1	1		19.21		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.07	20.02	20.06	21.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.07	19.98	19.99	21.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.07	19.99	20.01	21.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.06	19.98	20.00	21.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.02	20.02	20.06	21.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.02	20.04	20.04	21.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.02	19.99	20.02	21.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.07	20.04	19.99	21.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.01	20.04	20.03	21.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.07	19.98	20.02	21.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.05	20.03	20.00	21.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.48		22.9
100	PI/2 BPSK	1	137		20.96		
100	PI/2 BPSK	1	271		21.29		
100	PI/2 BPSK	135	0		21.30		22.9
100	PI/2 BPSK	135	69		21.38		22.9
100	PI/2 BPSK	135	138		21.25		22.9
100	PI/2 BPSK	270	0		21.48		
100	QPSK	1	1		21.26		22.9
100	QPSK	1	137		21.08		
100	QPSK	1	271		21.28		
100	QPSK	135	0		21.36		22.9
100	QPSK	135	69		21.43		22.9
100	QPSK	135	138		21.04		22.9
100	QPSK	270	0		21.46		
100	16QAM	1	1		21.30		22.9
100	64QAM	1	1		21.37		22.7
100	256QAM	1	1		19.40		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.33	21.35	21.33	22.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.30	21.40	21.39	22.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.37	21.40	21.38	22.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.31	21.37	21.39	22.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.35	21.33	21.37	22.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.38	21.37	21.37	22.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.39	21.34	21.38	22.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.34	21.41	21.38	22.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.37	21.41	21.38	22.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.30	21.33	21.32	22.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.34	21.43	21.36	22.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.07		21.0
100	PI/2 BPSK	1	137		20.05		
100	PI/2 BPSK	1	271		20.04		
100	PI/2 BPSK	135	0		20.27		21.0
100	PI/2 BPSK	135	69		20.25		21.0
100	PI/2 BPSK	135	138		20.14		21.0
100	PI/2 BPSK	270	0		20.29		
100	QPSK	1	1		20.10		21.0
100	QPSK	1	137		20.09		
100	QPSK	1	271		20.06		
100	QPSK	135	0		20.44		21.0
100	QPSK	135	69		20.39		21.0
100	QPSK	135	138		20.14		21.0
100	QPSK	270	0		20.44		
100	16QAM	1	1		20.11		21.0
100	64QAM	1	1		20.05		21.0
100	256QAM	1	1		19.21		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.07	20.02	20.06	21.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.07	19.98	19.99	21.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.07	19.99	20.01	21.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.06	19.98	20.00	21.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.02	20.02	20.06	21.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.02	20.04	20.04	21.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.02	19.99	20.02	21.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.07	20.04	19.99	21.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.01	20.04	20.03	21.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.07	19.98	20.02	21.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.05	20.03	20.00	21.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		21.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.48		21.7
100	PI/2 BPSK	1	137		20.96		
100	PI/2 BPSK	1	271		21.29		
100	PI/2 BPSK	135	0		21.30		21.7
100	PI/2 BPSK	135	69		21.38		21.7
100	PI/2 BPSK	135	138		21.25		21.7
100	PI/2 BPSK	270	0		21.47		
100	QPSK	1	1		21.26		21.7
100	QPSK	1	137		21.08		
100	QPSK	1	271		21.28		
100	QPSK	135	0		21.36		21.7
100	QPSK	135	69		21.43		21.7
100	QPSK	135	138		21.04		21.7
100	QPSK	270	0		21.46		
100	16QAM	1	1		21.30		21.7
100	64QAM	1	1		21.37		21.7
100	256QAM	1	1		19.40		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.33	21.35	21.33	21.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.30	21.40	21.39	21.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.37	21.40	21.38	21.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.31	21.37	21.39	21.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.35	21.33	21.37	21.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.38	21.37	21.37	21.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.39	21.34	21.38	21.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.34	21.41	21.38	21.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.37	21.41	21.38	21.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.30	21.33	21.32	21.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.34	21.43	21.36	21.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		26.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.36		
100	PI/2 BPSK	1	137		25.33		26.2
100	PI/2 BPSK	1	271		25.17		
100	PI/2 BPSK	135	0		25.30		
100	PI/2 BPSK	135	69		25.78		26.2
100	PI/2 BPSK	135	138		24.91		
100	PI/2 BPSK	270	0		25.24		
100	QPSK	1	1		25.26		26.7
100	QPSK	1	137		25.33		
100	QPSK	1	271		25.11		
100	QPSK	135	0		24.78		25.7
100	QPSK	135	69		25.77		26.7
100	QPSK	135	138		24.44		25.7
100	QPSK	270	0		24.75		
100	16QAM	1	1		24.30		
100	64QAM	1	1		22.74		24.2
100	256QAM	1	1		20.81		22.2
Channel				633000	633332	633666	26.7
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.30	25.33	25.30	
Channel				632668	633332	634000	26.7
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.24	25.18	25.21	
Channel				632334	633332	634332	26.7
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.17	25.19	25.16	
Channel				632000	633332	634666	26.7
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.17	25.20	25.18	
Channel				631668	633332	635000	26.7
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.17	25.19	25.24	
Channel				631334	633332	635332	26.7
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.19	25.21	25.15	
Channel				631000	633332	635666	26.7
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.19	25.23	25.15	
Channel				630834	633332	635832	26.7
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.18	25.21	25.17	
Channel				630668	633332	636000	26.7
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.17	25.21	25.15	
Channel				630500	633332	636166	26.7
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.18	25.27	25.23	
Channel				630334	633332	636332	26.7
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.18	25.23	25.21	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.53		18.2
100	PI/2 BPSK	1	137		16.42		
100	PI/2 BPSK	1	271		15.85		
100	PI/2 BPSK	135	0		16.41		18.2
100	PI/2 BPSK	135	69		16.42		18.2
100	PI/2 BPSK	135	138		16.21		18.2
100	PI/2 BPSK	270	0		16.32		
100	QPSK	1	1		16.46		18.2
100	QPSK	1	137		16.42		
100	QPSK	1	271		15.85		
100	QPSK	135	0		16.38		18.2
100	QPSK	135	69		16.40		18.2
100	QPSK	135	138		16.11		18.2
100	QPSK	270	0		16.33		
100	16QAM	1	1		16.40		18.2
100	64QAM	1	1		16.39		18.2
100	256QAM	1	1		16.40		18.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.33	16.43	16.40	18.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.34	16.48	16.42	18.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.36	16.49	16.43	18.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.31	16.44	16.39	18.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.30	16.48	16.45	18.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.36	16.39	16.34	18.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.39	16.50	16.37	18.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.32	16.52	16.39	18.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.34	16.45	16.38	18.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.31	16.43	16.46	18.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.42	16.40	16.38	18.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.36		26.0
100	PI/2 BPSK	1	137		25.33		
100	PI/2 BPSK	1	271		25.17		
100	PI/2 BPSK	135	0		25.30		26.0
100	PI/2 BPSK	135	69		25.78		26.0
100	PI/2 BPSK	135	138		24.91		26.0
100	PI/2 BPSK	270	0		25.24		
100	QPSK	1	1		25.26		26.0
100	QPSK	1	137		25.33		
100	QPSK	1	271		25.11		
100	QPSK	135	0		24.78		25.7
100	QPSK	135	69		25.77		26.0
100	QPSK	135	138		24.44		25.7
100	QPSK	270	0		24.75		
100	16QAM	1	1		24.30		25.7
100	64QAM	1	1		22.74		24.2
100	256QAM	1	1		20.81		22.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.30	25.33	25.30	26.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.24	25.18	25.21	26.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.17	25.19	25.16	26.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.17	25.20	25.18	26.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.17	25.19	25.24	26.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.19	25.21	25.15	26.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.19	25.23	25.15	26.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.18	25.21	25.17	26.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.17	25.21	25.15	26.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.18	25.27	25.23	26.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.18	25.23	25.21	26.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.53		17.5
100	PI/2 BPSK	1	137		16.42		
100	PI/2 BPSK	1	271		15.85		
100	PI/2 BPSK	135	0		16.41		17.5
100	PI/2 BPSK	135	69		16.42		17.5
100	PI/2 BPSK	135	138		16.21		17.5
100	PI/2 BPSK	270	0		16.32		
100	QPSK	1	1		16.46		17.5
100	QPSK	1	137		16.42		
100	QPSK	1	271		15.85		
100	QPSK	135	0		16.38		17.5
100	QPSK	135	69		16.40		17.5
100	QPSK	135	138		16.11		17.5
100	QPSK	270	0		16.33		
100	16QAM	1	1		16.40		17.5
100	64QAM	1	1		16.39		17.5
100	256QAM	1	1		16.40		17.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.33	16.43	16.40	17.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.34	16.48	16.42	17.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.36	16.49	16.43	17.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.31	16.44	16.39	17.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.30	16.48	16.45	17.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.36	16.39	16.34	17.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.39	16.50	16.37	17.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.32	16.52	16.39	17.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.34	16.45	16.38	17.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.31	16.43	16.46	17.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.42	16.40	16.38	17.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.12		22.5
100	PI/2 BPSK	1	137		21.10		
100	PI/2 BPSK	1	271		21.11		
100	PI/2 BPSK	135	0		21.26		22.5
100	PI/2 BPSK	135	69		21.41		22.5
100	PI/2 BPSK	135	138		21.41		22.5
100	PI/2 BPSK	270	0		21.44		
100	QPSK	1	1		21.11		22.5
100	QPSK	1	137		21.07		
100	QPSK	1	271		20.94		
100	QPSK	135	0		21.28		22.5
100	QPSK	135	69		21.47		22.5
100	QPSK	135	138		21.20		22.5
100	QPSK	270	0		21.36		
100	16QAM	1	1		20.89		22.5
100	64QAM	1	1		21.00		22.5
100	256QAM	1	1		21.00		22.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.98	21.02	21.03	22.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.00	21.04	21.01	22.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.97	21.06	21.04	22.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.97	21.02	21.00	22.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.97	21.07	21.02	22.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.98	21.07	20.99	22.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.98	21.04	20.99	22.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.95	21.02	20.98	22.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.01	21.07	21.00	22.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.99	21.06	21.03	22.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.98	21.03	21.00	22.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.70		22.5
100	PI/2 BPSK	1	137		21.69		
100	PI/2 BPSK	1	271		21.33		
100	PI/2 BPSK	135	0		21.68		22.5
100	PI/2 BPSK	135	69		21.70		22.5
100	PI/2 BPSK	135	138		21.54		22.5
100	PI/2 BPSK	270	0		21.60		
100	QPSK	1	1		21.71		22.5
100	QPSK	1	137		21.71		
100	QPSK	1	271		21.24		
100	QPSK	135	0		21.61		22.5
100	QPSK	135	69		21.68		22.5
100	QPSK	135	138		21.43		22.5
100	QPSK	270	0		21.61		
100	16QAM	1	1		21.64		22.5
100	64QAM	1	1		21.36		22.5
100	256QAM	1	1		19.62		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.47	21.61	21.63	22.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.50	21.53	21.56	22.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.48	21.69	21.67	22.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.53	21.63	21.53	22.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.56	21.59	21.68	22.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.47	21.54	21.49	22.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.52	21.55	21.65	22.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.55	21.50	21.54	22.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.54	21.61	21.53	22.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.57	21.69	21.51	22.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.48	21.65	21.54	22.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.33		24.0
100	PI/2 BPSK	1	137		22.28		
100	PI/2 BPSK	1	271		22.18		
100	PI/2 BPSK	135	0		22.61		24.0
100	PI/2 BPSK	135	69		22.78		24.0
100	PI/2 BPSK	135	138		22.34		24.0
100	PI/2 BPSK	270	0		22.65		
100	QPSK	1	1		22.10		24.0
100	QPSK	1	137		22.27		
100	QPSK	1	271		22.13		
100	QPSK	135	0		22.56		24.0
100	QPSK	135	69		22.53		24.0
100	QPSK	135	138		22.29		24.0
100	QPSK	270	0		22.49		
100	16QAM	1	1		22.05		24.0
100	64QAM	1	1		22.03		24.0
100	256QAM	1	1		20.95		22.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.40	22.34	22.33	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.34	22.26	22.23	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.35	22.25	22.25	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.32	22.29	22.24	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.35	22.27	22.28	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.35	22.24	22.27	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.30	22.28	22.23	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.33	22.24	22.25	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.33	22.25	22.27	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.30	22.24	22.27	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.33	22.27	22.28	24.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.65		25.5
100	PI/2 BPSK	1	137		24.63		
100	PI/2 BPSK	1	271		23.90		
100	PI/2 BPSK	135	0		23.98		25.5
100	PI/2 BPSK	135	69		24.56		25.5
100	PI/2 BPSK	135	138		23.73		25.5
100	PI/2 BPSK	270	0		23.96		
100	QPSK	1	1		24.62		25.5
100	QPSK	1	137		24.61		
100	QPSK	1	271		24.02		
100	QPSK	135	0		23.50		25.0
100	QPSK	135	69		24.55		25.5
100	QPSK	135	138		23.24		25.0
100	QPSK	270	0		23.45		
100	16QAM	1	1		23.60		25.0
100	64QAM	1	1		21.85		23.5
100	256QAM	1	1		19.96		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.58	24.62	24.55	25.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.55	24.52	24.52	25.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.53	24.55	24.51	25.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.56	24.59	24.46	25.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.53	24.61	24.53	25.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.48	24.60	24.51	25.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.51	24.59	24.45	25.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.56	24.59	24.47	25.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.57	24.54	24.46	25.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.52	24.54	24.47	25.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.52	24.57	24.50	25.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.33		24.0
100	PI/2 BPSK	1	137		22.28		
100	PI/2 BPSK	1	271		22.18		
100	PI/2 BPSK	135	0		22.61		24.0
100	PI/2 BPSK	135	69		22.78		24.0
100	PI/2 BPSK	135	138		22.34		24.0
100	PI/2 BPSK	270	0		22.65		
100	QPSK	1	1		22.10		24.0
100	QPSK	1	137		22.27		
100	QPSK	1	271		22.13		
100	QPSK	135	0		22.56		24.0
100	QPSK	135	69		22.53		24.0
100	QPSK	135	138		22.29		24.0
100	QPSK	270	0		22.49		
100	16QAM	1	1		22.05		24.0
100	64QAM	1	1		22.03		24.0
100	256QAM	1	1		20.95		22.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.40	22.34	22.33	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.34	22.26	22.23	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.35	22.25	22.25	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.32	22.29	22.24	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.35	22.27	22.28	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.35	22.24	22.27	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.30	22.28	22.23	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.33	22.24	22.25	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.33	22.25	22.27	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.30	22.24	22.27	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.33	22.27	22.28	24.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.70		22.5
100	PI/2 BPSK	1	137		21.69		
100	PI/2 BPSK	1	271		21.33		
100	PI/2 BPSK	135	0		21.68		22.5
100	PI/2 BPSK	135	69		21.70		22.5
100	PI/2 BPSK	135	138		21.54		22.5
100	PI/2 BPSK	270	0		21.60		
100	QPSK	1	1		21.71		22.5
100	QPSK	1	137		21.71		
100	QPSK	1	271		21.24		
100	QPSK	135	0		21.61		22.5
100	QPSK	135	69		21.68		22.5
100	QPSK	135	138		21.43		22.5
100	QPSK	270	0		21.61		
100	16QAM	1	1		21.64		22.5
100	64QAM	1	1		21.36		22.5
100	256QAM	1	1		19.62		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.47	21.61	21.63	22.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.50	21.53	21.56	22.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.48	21.69	21.67	22.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.53	21.63	21.53	22.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.56	21.59	21.68	22.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.47	21.54	21.49	22.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.52	21.55	21.65	22.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.55	21.50	21.54	22.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.54	21.61	21.53	22.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.57	21.69	21.51	22.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.48	21.65	21.54	22.5