



**Appendix D-2. Output Power Measurement**

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.41	24.41	24.38	25.3
20	PI/2 BPSK	1	53	24.52	24.53	24.51	
20	PI/2 BPSK	1	104	24.43	24.36	24.45	
20	PI/2 BPSK	50	0	23.94	23.83	23.91	24.8
20	PI/2 BPSK	50	28	24.46	24.35	24.46	25.3
20	PI/2 BPSK	50	56	23.94	23.88	24.01	24.8
20	PI/2 BPSK	100	0	23.91	23.87	24.00	
20	QPSK	1	1	24.38	24.40	24.37	25.3
20	QPSK	1	53	24.52	24.51	24.50	
20	QPSK	1	104	24.44	24.33	24.46	
20	QPSK	50	0	23.47	23.39	23.41	24.3
20	QPSK	50	28	24.46	24.43	24.49	25.3
20	QPSK	50	56	23.42	23.39	23.56	24.3
20	QPSK	100	0	23.44	23.42	23.51	
20	16QAM	1	1	23.43	23.41	23.43	24.3
20	64QAM	1	1	21.92	21.90	21.81	22.8
20	256QAM	1	1	20.09	20.04	19.79	20.8
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.33	24.32	24.32	25.3
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.39	24.39	24.31	25.3
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.34	24.31	24.38	25.3



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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				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	18.10	18.08	18.11	18.2
20	PI/2 BPSK	1	53	18.00	18.05	18.00	
20	PI/2 BPSK	1	104	17.81	17.82	17.79	
20	PI/2 BPSK	50	0	18.00	18.00	18.01	18.2
20	PI/2 BPSK	50	28	18.05	18.10	18.04	18.2
20	PI/2 BPSK	50	56	18.02	18.06	18.04	18.2
20	PI/2 BPSK	100	0	18.05	18.04	18.10	
20	QPSK	1	1	18.07	18.06	18.09	18.2
20	QPSK	1	53	18.01	17.99	18.00	
20	QPSK	1	104	17.74	17.69	17.67	
20	QPSK	50	0	18.05	18.04	18.02	18.2
20	QPSK	50	28	18.04	18.06	18.10	18.2
20	QPSK	50	56	18.00	18.00	18.00	18.2
20	QPSK	100	0	17.93	17.95	17.97	
20	16QAM	1	1	17.98	18.06	17.96	18.2
20	64QAM	1	1	18.06	17.99	18.07	18.2
20	256QAM	1	1	18.08	18.08	18.08	18.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	18.07	18.08	18.06	18.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	18.03	17.99	18.10	18.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	18.06	18.00	18.07	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				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	18.10	18.08	18.11	19.5
20	PI/2 BPSK	1	53	18.00	18.05	18.00	
20	PI/2 BPSK	1	104	17.81	17.82	17.79	
20	PI/2 BPSK	50	0	18.00	18.00	18.01	19.5
20	PI/2 BPSK	50	28	18.05	18.10	18.04	19.5
20	PI/2 BPSK	50	56	18.02	18.06	18.04	19.5
20	PI/2 BPSK	100	0	18.05	18.04	18.10	
20	QPSK	1	1	18.07	18.06	18.09	19.5
20	QPSK	1	53	18.01	17.99	18.00	
20	QPSK	1	104	17.74	17.69	17.67	
20	QPSK	50	0	18.05	18.04	18.02	19.5
20	QPSK	50	28	18.04	18.06	18.10	19.5
20	QPSK	50	56	18.00	18.00	18.00	19.5
20	QPSK	100	0	17.93	17.95	17.97	
20	16QAM	1	1	17.98	18.06	17.96	19.5
20	64QAM	1	1	18.06	17.99	18.07	19.5
20	256QAM	1	1	18.08	18.08	18.08	19.5
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	18.07	18.08	18.06	19.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	18.03	17.99	18.10	19.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	18.06	18.00	18.07	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				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	18.10	18.08	18.11	18.8
20	PI/2 BPSK	1	53	18.00	18.05	18.00	
20	PI/2 BPSK	1	104	17.81	17.82	17.79	
20	PI/2 BPSK	50	0	18.00	18.00	18.01	18.8
20	PI/2 BPSK	50	28	18.05	18.10	18.04	18.8
20	PI/2 BPSK	50	56	18.02	18.06	18.04	18.8
20	PI/2 BPSK	100	0	18.05	18.04	18.10	
20	QPSK	1	1	18.07	18.06	18.09	18.8
20	QPSK	1	53	18.01	17.99	18.00	
20	QPSK	1	104	17.74	17.69	17.67	
20	QPSK	50	0	18.05	18.04	18.02	18.8
20	QPSK	50	28	18.04	18.06	18.10	18.8
20	QPSK	50	56	18.00	18.00	18.00	18.8
20	QPSK	100	0	17.93	17.95	17.97	
20	16QAM	1	1	17.98	18.06	17.96	18.8
20	64QAM	1	1	18.06	17.99	18.07	18.8
20	256QAM	1	1	18.08	18.08	18.08	18.8
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	18.07	18.08	18.06	18.8
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	18.03	17.99	18.10	18.8
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	18.06	18.00	18.07	18.8



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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				372000	376000	380000	17.7
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	16.51	16.62	16.52	
20	PI/2 BPSK	1	53	16.61	16.64	16.59	17.7
20	PI/2 BPSK	1	104	16.50	16.46	16.51	
20	PI/2 BPSK	50	0	16.54	16.60	16.50	17.7
20	PI/2 BPSK	50	28	16.53	16.53	16.50	17.7
20	PI/2 BPSK	50	56	16.53	16.51	16.50	17.7
20	PI/2 BPSK	100	0	16.52	16.53	16.52	
20	QPSK	1	1	16.50	16.61	16.51	17.7
20	QPSK	1	53	16.60	16.60	16.58	
20	QPSK	1	104	16.49	16.46	16.50	
20	QPSK	50	0	16.52	16.59	16.49	17.7
20	QPSK	50	28	16.52	16.53	16.51	17.7
20	QPSK	50	56	16.51	16.50	16.50	17.7
20	QPSK	100	0	16.48	16.52	16.51	
20	16QAM	1	1	16.52	16.56	16.58	17.7
20	64QAM	1	1	16.50	16.58	16.53	17.7
20	256QAM	1	1	16.45	16.50	16.46	17.7
Channel				371500	376000	380500	17.7
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	16.47	16.53	16.48	17.7
Channel				371000	376000	381000	17.7
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	16.41	16.51	16.43	17.7
Channel				370500	376000	381500	17.7
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	16.43	16.50	16.42	17.7



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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				372000	376000	380000	17.0
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	16.51	16.62	16.52	
20	PI/2 BPSK	1	53	16.61	16.64	16.59	17.0
20	PI/2 BPSK	1	104	16.50	16.46	16.51	
20	PI/2 BPSK	50	0	16.54	16.60	16.50	17.0
20	PI/2 BPSK	50	28	16.53	16.53	16.50	17.0
20	PI/2 BPSK	50	56	16.53	16.51	16.50	17.0
20	PI/2 BPSK	100	0	16.52	16.53	16.52	
20	QPSK	1	1	16.50	16.61	16.51	17.0
20	QPSK	1	53	16.60	16.60	16.58	
20	QPSK	1	104	16.49	16.46	16.50	
20	QPSK	50	0	16.52	16.59	16.49	17.0
20	QPSK	50	28	16.52	16.53	16.51	17.0
20	QPSK	50	56	16.51	16.50	16.50	17.0
20	QPSK	100	0	16.48	16.52	16.51	
20	16QAM	1	1	16.52	16.56	16.58	17.0
20	64QAM	1	1	16.50	16.58	16.53	17.0
20	256QAM	1	1	16.45	16.50	16.46	17.0
Channel				371500	376000	380500	17.0
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	16.47	16.53	16.48	17.0
Channel				371000	376000	381000	17.0
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	16.41	16.51	16.43	17.0
Channel				370500	376000	381500	17.0
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	16.43	16.50	16.42	17.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.48	20.64	20.51	21.2
20	PI/2 BPSK	1	53	20.54	20.65	20.63	
20	PI/2 BPSK	1	104	20.49	20.53	20.59	
20	PI/2 BPSK	50	0	20.51	20.59	20.51	21.2
20	PI/2 BPSK	50	28	20.52	20.60	20.59	21.2
20	PI/2 BPSK	50	56	20.49	20.58	20.57	21.2
20	PI/2 BPSK	100	0	20.50	20.59	20.54	
20	QPSK	1	1	20.48	20.62	20.51	21.2
20	QPSK	1	53	20.52	20.63	20.60	
20	QPSK	1	104	20.50	20.51	20.60	
20	QPSK	50	0	20.47	20.59	20.52	21.2
20	QPSK	50	28	20.49	20.58	20.56	21.2
20	QPSK	50	56	20.48	20.58	20.57	21.2
20	QPSK	100	0	20.47	20.60	20.53	
20	16QAM	1	1	20.46	20.62	20.50	21.2
20	64QAM	1	1	20.46	20.63	20.49	21.2
20	256QAM	1	1	20.41	20.55	20.43	20.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.45	20.59	20.49	21.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	20.48	20.61	20.50	21.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.47	20.60	20.49	21.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	21.46	21.58	21.46	22.8
20	PI/2 BPSK	1	53	21.54	21.63	21.58	
20	PI/2 BPSK	1	104	21.46	21.52	21.57	
20	PI/2 BPSK	50	0	21.43	21.49	21.48	22.8
20	PI/2 BPSK	50	28	21.49	21.58	21.56	22.8
20	PI/2 BPSK	50	56	21.40	21.50	21.56	22.8
20	PI/2 BPSK	100	0	21.47	21.50	21.46	
20	QPSK	1	1	21.39	21.62	21.41	22.8
20	QPSK	1	53	21.46	21.53	21.60	
20	QPSK	1	104	21.42	21.47	21.50	
20	QPSK	50	0	21.38	21.50	21.48	22.8
20	QPSK	50	28	21.46	21.58	21.49	22.8
20	QPSK	50	56	21.47	21.57	21.52	22.8
20	QPSK	100	0	21.37	21.52	21.53	
20	16QAM	1	1	21.43	21.53	21.45	22.8
20	64QAM	1	1	21.38	21.59	21.42	22.8
20	256QAM	1	1	20.37	20.52	20.41	20.8
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	21.37	21.56	21.49	22.8
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	21.46	21.56	21.43	22.8
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	21.42	21.58	21.41	22.8





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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				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	21.46	21.58	21.46	
20	PI/2 BPSK	1	53	21.54	21.63	21.58	22.1
20	PI/2 BPSK	1	104	21.46	21.52	21.57	
20	PI/2 BPSK	50	0	21.43	21.49	21.48	22.1
20	PI/2 BPSK	50	28	21.49	21.58	21.56	22.1
20	PI/2 BPSK	50	56	21.40	21.50	21.56	22.1
20	PI/2 BPSK	100	0	21.47	21.50	21.46	
20	QPSK	1	1	21.39	21.62	21.41	22.1
20	QPSK	1	53	21.46	21.53	21.60	
20	QPSK	1	104	21.42	21.47	21.50	
20	QPSK	50	0	21.38	21.50	21.48	22.1
20	QPSK	50	28	21.46	21.58	21.49	22.1
20	QPSK	50	56	21.47	21.57	21.52	22.1
20	QPSK	100	0	21.37	21.52	21.53	
20	16QAM	1	1	21.43	21.53	21.45	22.1
20	64QAM	1	1	21.38	21.59	21.42	22.1
20	256QAM	1	1	20.37	20.52	20.41	20.6
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	21.37	21.56	21.49	22.1
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	21.46	21.56	21.43	22.1
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	21.42	21.58	21.41	22.1



<FR1 n2\_Ant 2\_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	24.7
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.41	23.45	23.30	
20	PI/2 BPSK	1	53	23.42	23.44	23.31	24.7
20	PI/2 BPSK	1	104	23.27	23.22	23.29	
20	PI/2 BPSK	50	0	23.39	23.26	23.28	24.7
20	PI/2 BPSK	50	28	23.36	23.32	23.24	24.7
20	PI/2 BPSK	50	56	23.28	23.28	23.21	24.7
20	PI/2 BPSK	100	0	23.31	23.32	23.24	
20	QPSK	1	1	23.36	23.32	23.32	24.7
20	QPSK	1	53	23.44	23.38	23.29	
20	QPSK	1	104	23.25	23.23	23.24	
20	QPSK	50	0	22.38	22.26	22.27	24.2
20	QPSK	50	28	23.34	23.30	23.23	24.7
20	QPSK	50	56	22.27	22.30	22.20	24.2
20	QPSK	100	0	22.31	22.31	22.25	
20	16QAM	1	1	22.41	22.34	22.35	24.2
20	64QAM	1	1	21.75	21.65	21.60	22.7
20	256QAM	1	1	19.57	19.58	19.56	20.7
Channel				371500	376000	380500	24.7
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.41	23.27	23.20	24.7
Channel				371000	376000	381000	24.7
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.34	23.30	23.29	24.7
Channel				370500	376000	381500	24.7
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.33	23.31	23.29	24.7



<FR1 n2\_Ant 2\_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.41	23.45	23.30	24.0
20	PI/2 BPSK	1	53	23.42	23.44	23.31	
20	PI/2 BPSK	1	104	23.27	23.22	23.29	
20	PI/2 BPSK	50	0	23.39	23.26	23.28	24.0
20	PI/2 BPSK	50	28	23.36	23.32	23.24	24.0
20	PI/2 BPSK	50	56	23.28	23.28	23.21	24.0
20	PI/2 BPSK	100	0	23.31	23.32	23.24	
20	QPSK	1	1	23.36	23.32	23.32	24.0
20	QPSK	1	53	23.44	23.38	23.29	
20	QPSK	1	104	23.25	23.23	23.24	
20	QPSK	50	0	22.38	22.26	22.27	24.0
20	QPSK	50	28	23.34	23.30	23.23	24.0
20	QPSK	50	56	22.27	22.30	22.20	24.0
20	QPSK	100	0	22.31	22.31	22.25	
20	16QAM	1	1	22.41	22.34	22.35	24.0
20	64QAM	1	1	21.75	21.65	21.60	23.0
20	256QAM	1	1	19.57	19.58	19.56	21.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.41	23.27	23.20	24.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.34	23.30	23.29	24.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.33	23.31	23.29	24.0



<FR1 n2\_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				372000	376000	380000	21.2
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.18	20.21	20.25	
20	PI/2 BPSK	1	53	20.18	20.26	20.24	21.2
20	PI/2 BPSK	1	104	19.92	19.95	19.91	
20	PI/2 BPSK	50	0	20.20	20.18	20.11	21.2
20	PI/2 BPSK	50	28	20.06	20.20	20.11	21.2
20	PI/2 BPSK	50	56	20.17	20.12	20.12	21.2
20	PI/2 BPSK	100	0	20.20	20.17	20.11	
20	QPSK	1	1	20.17	20.24	20.14	21.2
20	QPSK	1	53	20.12	20.13	20.03	
20	QPSK	1	104	19.95	19.90	19.90	
20	QPSK	50	0	20.06	20.17	20.05	21.2
20	QPSK	50	28	20.07	20.08	20.03	21.2
20	QPSK	50	56	20.16	20.09	20.05	21.2
20	QPSK	100	0	20.14	20.22	20.18	
20	16QAM	1	1	19.92	20.00	19.94	21.2
20	64QAM	1	1	20.06	20.14	20.09	21.2
20	256QAM	1	1	19.83	19.84	19.76	21.0
Channel				371500	376000	380500	21.2
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.22	20.18	20.22	21.2
Channel				371000	376000	381000	21.2
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	20.18	20.18	20.14	21.2
Channel				370500	376000	381500	21.2
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.22	20.20	20.22	21.2



<FR1 n2\_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				372000	376000	380000	21.9
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.18	20.21	20.25	
20	PI/2 BPSK	1	53	20.18	20.26	20.24	21.9
20	PI/2 BPSK	1	104	19.92	19.95	19.91	
20	PI/2 BPSK	50	0	20.20	20.18	20.11	21.9
20	PI/2 BPSK	50	28	20.06	20.20	20.11	21.9
20	PI/2 BPSK	50	56	20.17	20.12	20.12	21.9
20	PI/2 BPSK	100	0	20.20	20.17	20.11	
20	QPSK	1	1	20.17	20.24	20.14	21.9
20	QPSK	1	53	20.12	20.13	20.03	
20	QPSK	1	104	19.95	19.90	19.90	
20	QPSK	50	0	20.06	20.17	20.05	21.9
20	QPSK	50	28	20.07	20.08	20.03	21.9
20	QPSK	50	56	20.16	20.09	20.05	21.9
20	QPSK	100	0	20.14	20.22	20.18	
20	16QAM	1	1	19.92	20.00	19.94	21.9
20	64QAM	1	1	20.06	20.14	20.09	21.9
20	256QAM	1	1	19.83	19.84	19.76	21.0
Channel				371500	376000	380500	21.9
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.22	20.18	20.22	21.9
Channel				371000	376000	381000	21.9
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	20.18	20.18	20.14	21.9
Channel				370500	376000	381500	21.9
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.22	20.20	20.22	21.9



<FR1 n2\_Ant 2\_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	21.2
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.18	20.21	20.25	
20	PI/2 BPSK	1	53	20.18	20.26	20.24	21.2
20	PI/2 BPSK	1	104	19.92	19.95	19.91	
20	PI/2 BPSK	50	0	20.20	20.18	20.11	21.2
20	PI/2 BPSK	50	28	20.06	20.20	20.11	21.2
20	PI/2 BPSK	50	56	20.17	20.12	20.12	21.2
20	PI/2 BPSK	100	0	20.20	20.17	20.11	
20	QPSK	1	1	20.17	20.24	20.14	21.2
20	QPSK	1	53	20.12	20.13	20.03	
20	QPSK	1	104	19.95	19.90	19.90	
20	QPSK	50	0	20.06	20.17	20.05	21.2
20	QPSK	50	28	20.07	20.08	20.03	21.2
20	QPSK	50	56	20.16	20.09	20.05	21.2
20	QPSK	100	0	20.14	20.22	20.18	
20	16QAM	1	1	19.92	20.00	19.94	21.2
20	64QAM	1	1	20.06	20.14	20.09	21.2
20	256QAM	1	1	19.83	19.84	19.76	21.0
Channel				371500	376000	380500	21.2
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.22	20.18	20.22	21.2
Channel				371000	376000	381000	21.2
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	20.18	20.18	20.14	21.2
Channel				370500	376000	381500	21.2
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.22	20.20	20.22	21.2



<FR1 n2\_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				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	15.88	15.90	15.88	17.3
20	PI/2 BPSK	1	53	15.73	15.82	15.76	
20	PI/2 BPSK	1	104	15.72	15.81	15.78	
20	PI/2 BPSK	50	0	15.82	15.86	15.82	17.3
20	PI/2 BPSK	50	28	15.71	15.78	15.73	17.3
20	PI/2 BPSK	50	56	15.73	15.76	15.71	17.3
20	PI/2 BPSK	100	0	15.85	15.85	15.84	
20	QPSK	1	1	15.88	15.89	15.86	17.3
20	QPSK	1	53	15.86	15.86	15.79	
20	QPSK	1	104	15.81	15.86	15.77	
20	QPSK	50	0	15.78	15.80	15.75	17.3
20	QPSK	50	28	15.76	15.84	15.80	17.3
20	QPSK	50	56	15.71	15.78	15.78	17.3
20	QPSK	100	0	15.69	15.77	15.76	
20	16QAM	1	1	15.84	15.88	15.80	17.3
20	64QAM	1	1	15.84	15.85	15.79	17.3
20	256QAM	1	1	15.66	15.67	15.61	17.3
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	15.88	15.76	15.78	17.3
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	15.86	15.72	15.71	17.3
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	15.81	15.79	15.74	17.3



<FR1 n2\_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				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	15.88	15.90	15.88	16.6
20	PI/2 BPSK	1	53	15.73	15.82	15.76	
20	PI/2 BPSK	1	104	15.72	15.81	15.78	
20	PI/2 BPSK	50	0	15.82	15.86	15.82	16.6
20	PI/2 BPSK	50	28	15.71	15.78	15.73	16.6
20	PI/2 BPSK	50	56	15.73	15.76	15.71	16.6
20	PI/2 BPSK	100	0	15.85	15.85	15.84	
20	QPSK	1	1	15.88	15.89	15.86	16.6
20	QPSK	1	53	15.86	15.86	15.79	
20	QPSK	1	104	15.81	15.86	15.77	
20	QPSK	50	0	15.78	15.80	15.75	16.6
20	QPSK	50	28	15.76	15.84	15.80	16.6
20	QPSK	50	56	15.71	15.78	15.78	16.6
20	QPSK	100	0	15.69	15.77	15.76	
20	16QAM	1	1	15.84	15.88	15.80	16.6
20	64QAM	1	1	15.84	15.85	15.79	16.6
20	256QAM	1	1	15.66	15.67	15.61	16.6
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	15.88	15.76	15.78	16.6
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	15.86	15.72	15.71	16.6
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	15.81	15.79	15.74	16.6





<FR1 n2\_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				372000	376000	380000	21.2
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.33	20.38	20.32	
20	PI/2 BPSK	1	53	20.32	20.37	20.37	21.2
20	PI/2 BPSK	1	104	20.26	20.36	20.27	
20	PI/2 BPSK	50	0	20.34	20.36	20.35	21.2
20	PI/2 BPSK	50	28	20.33	20.35	20.35	21.2
20	PI/2 BPSK	50	56	20.23	20.30	20.30	21.2
20	PI/2 BPSK	100	0	20.31	20.34	20.29	
20	QPSK	1	1	20.33	20.37	20.28	21.2
20	QPSK	1	53	20.23	20.28	20.28	
20	QPSK	1	104	20.28	20.31	20.27	
20	QPSK	50	0	20.26	20.32	20.29	21.2
20	QPSK	50	28	20.31	20.32	20.30	21.2
20	QPSK	50	56	20.21	20.28	20.22	21.2
20	QPSK	100	0	20.27	20.33	20.29	
20	16QAM	1	1	20.33	20.37	20.31	21.2
20	64QAM	1	1	20.24	20.32	20.23	21.2
20	256QAM	1	1	18.82	18.91	18.85	20.8
Channel				371500	376000	380500	21.2
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.31	20.30	20.33	21.2
Channel				371000	376000	381000	21.2
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	20.29	20.31	20.34	21.2
Channel				370500	376000	381500	21.2
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.32	20.27	20.29	21.2



<FR1 n2\_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				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.33	20.38	20.32	21.9
20	PI/2 BPSK	1	53	20.32	20.37	20.37	
20	PI/2 BPSK	1	104	20.26	20.36	20.27	
20	PI/2 BPSK	50	0	20.34	20.36	20.35	21.9
20	PI/2 BPSK	50	28	20.33	20.35	20.35	21.9
20	PI/2 BPSK	50	56	20.23	20.30	20.30	21.9
20	PI/2 BPSK	100	0	20.31	20.34	20.29	
20	QPSK	1	1	20.33	20.37	20.28	21.9
20	QPSK	1	53	20.23	20.28	20.28	
20	QPSK	1	104	20.28	20.31	20.27	
20	QPSK	50	0	20.26	20.32	20.29	21.9
20	QPSK	50	28	20.31	20.32	20.30	21.9
20	QPSK	50	56	20.21	20.28	20.22	21.9
20	QPSK	100	0	20.27	20.33	20.29	
20	16QAM	1	1	20.33	20.37	20.31	21.9
20	64QAM	1	1	20.24	20.32	20.23	21.9
20	256QAM	1	1	18.82	18.91	18.85	20.8
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.31	20.30	20.33	21.9
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	20.29	20.31	20.34	21.9
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.32	20.27	20.29	21.9



<FR1 n2\_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				372000	376000	380000	21.2
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.33	20.38	20.32	
20	PI/2 BPSK	1	53	20.32	20.37	20.37	21.2
20	PI/2 BPSK	1	104	20.26	20.36	20.27	
20	PI/2 BPSK	50	0	20.34	20.36	20.35	21.2
20	PI/2 BPSK	50	28	20.33	20.35	20.35	21.2
20	PI/2 BPSK	50	56	20.23	20.30	20.30	21.2
20	PI/2 BPSK	100	0	20.31	20.34	20.29	
20	QPSK	1	1	20.33	20.37	20.28	21.2
20	QPSK	1	53	20.23	20.28	20.28	
20	QPSK	1	104	20.28	20.31	20.27	
20	QPSK	50	0	20.26	20.32	20.29	21.2
20	QPSK	50	28	20.31	20.32	20.30	21.2
20	QPSK	50	56	20.21	20.28	20.22	21.2
20	QPSK	100	0	20.27	20.33	20.29	
20	16QAM	1	1	20.33	20.37	20.31	21.2
20	64QAM	1	1	20.24	20.32	20.23	21.2
20	256QAM	1	1	18.82	18.91	18.85	20.8
Channel				371500	376000	380500	21.2
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.31	20.30	20.33	21.2
Channel				371000	376000	381000	21.2
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	20.29	20.31	20.34	21.2
Channel				370500	376000	381500	21.2
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.32	20.27	20.29	21.2



<FR1 n5\_Ant 0\_Index 2/3/5/6>

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	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.43	24.50	24.41	25.5
20	PI/2 BPSK	1	53	24.46	24.49	24.49	
20	PI/2 BPSK	1	104	24.41	24.40	24.38	
20	PI/2 BPSK	50	0	23.96	23.94	23.92	25.0
20	PI/2 BPSK	50	28	24.42	24.39	24.46	25.5
20	PI/2 BPSK	50	56	23.93	23.91	23.91	25.0
20	PI/2 BPSK	100	0	23.95	23.88	23.94	
20	QPSK	1	1	24.44	24.43	24.44	25.5
20	QPSK	1	53	24.46	24.47	24.48	
20	QPSK	1	104	24.43	24.41	24.39	
20	QPSK	50	0	23.46	23.44	23.45	24.5
20	QPSK	50	28	24.44	24.40	24.47	25.5
20	QPSK	50	56	23.45	23.44	23.42	24.5
20	QPSK	100	0	23.44	23.41	23.43	
20	16QAM	1	1	23.46	23.38	23.38	24.5
20	64QAM	1	1	21.87	21.94	21.95	23.0
20	256QAM	1	1	20.02	20.00	20.01	21.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.33	24.42	24.37	25.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.36	24.45	24.32	25.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.35	24.45	24.33	25.5



<FR1 n5\_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				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.43	24.50	24.41	25.1
20	PI/2 BPSK	1	53	24.46	24.49	24.49	
20	PI/2 BPSK	1	104	24.41	24.40	24.38	
20	PI/2 BPSK	50	0	23.96	23.94	23.92	24.6
20	PI/2 BPSK	50	28	24.42	24.39	24.46	25.1
20	PI/2 BPSK	50	56	23.93	23.91	23.91	24.6
20	PI/2 BPSK	100	0	23.95	23.88	23.94	
20	QPSK	1	1	24.44	24.43	24.44	25.1
20	QPSK	1	53	24.46	24.47	24.48	
20	QPSK	1	104	24.43	24.41	24.39	
20	QPSK	50	0	23.46	23.44	23.45	24.1
20	QPSK	50	28	24.44	24.40	24.47	25.1
20	QPSK	50	56	23.45	23.44	23.42	24.1
20	QPSK	100	0	23.44	23.41	23.43	
20	16QAM	1	1	23.46	23.38	23.38	24.1
20	64QAM	1	1	21.87	21.94	21.95	22.6
20	256QAM	1	1	20.02	20.00	20.01	20.6
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.33	24.42	24.37	25.1
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.36	24.45	24.32	25.1
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.35	24.45	24.33	25.1



<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	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	20.31	20.45	20.34	21.3
20	PI/2 BPSK	1	53	20.40	20.44	20.32	
20	PI/2 BPSK	1	104	20.35	20.36	20.28	
20	PI/2 BPSK	50	0	20.39	20.40	20.40	21.3
20	PI/2 BPSK	50	28	20.38	20.44	20.41	21.3
20	PI/2 BPSK	50	56	20.36	20.43	20.37	21.3
20	PI/2 BPSK	100	0	20.34	20.43	20.35	
20	QPSK	1	1	20.41	20.41	20.41	21.3
20	QPSK	1	53	20.50	20.55	20.52	
20	QPSK	1	104	20.38	20.38	20.32	
20	QPSK	50	0	20.38	20.42	20.36	21.3
20	QPSK	50	28	20.39	20.42	20.42	21.3
20	QPSK	50	56	20.33	20.42	20.37	21.3
20	QPSK	100	0	20.38	20.43	20.43	
20	16QAM	1	1	20.39	20.40	20.39	21.3
20	64QAM	1	1	20.39	20.41	20.41	21.3
20	256QAM	1	1	18.90	18.90	18.90	20.3
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	20.27	20.35	20.26	21.3
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	20.22	20.38	20.26	21.3
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	20.26	20.40	20.30	21.3



<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	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	20.31	20.45	20.34	20.6
20	PI/2 BPSK	1	53	20.40	20.44	20.32	
20	PI/2 BPSK	1	104	20.35	20.36	20.28	
20	PI/2 BPSK	50	0	20.39	20.40	20.40	20.6
20	PI/2 BPSK	50	28	20.38	20.44	20.41	20.6
20	PI/2 BPSK	50	56	20.36	20.43	20.37	20.6
20	PI/2 BPSK	100	0	20.34	20.43	20.35	
20	QPSK	1	1	20.41	20.41	20.41	20.6
20	QPSK	1	53	20.50	20.55	20.52	
20	QPSK	1	104	20.38	20.38	20.32	
20	QPSK	50	0	20.38	20.42	20.36	20.6
20	QPSK	50	28	20.39	20.42	20.42	20.6
20	QPSK	50	56	20.33	20.42	20.37	20.6
20	QPSK	100	0	20.38	20.43	20.43	
20	16QAM	1	1	20.39	20.40	20.39	20.6
20	64QAM	1	1	20.39	20.41	20.41	20.6
20	256QAM	1	1	18.90	18.90	18.90	20.6
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	20.27	20.35	20.26	20.6
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	20.22	20.38	20.26	20.6
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	20.26	20.40	20.30	20.6



<FR1 n5\_Ant 1\_Index 4/5/6>

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	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.45	24.61	24.51	25.1
20	PI/2 BPSK	1	53	24.52	24.50	24.52	
20	PI/2 BPSK	1	104	24.50	24.58	24.54	
20	PI/2 BPSK	50	0	24.05	24.12	24.09	24.6
20	PI/2 BPSK	50	28	24.49	24.59	24.57	25.1
20	PI/2 BPSK	50	56	24.16	24.21	24.19	24.6
20	PI/2 BPSK	100	0	24.01	24.11	24.09	
20	QPSK	1	1	24.52	24.52	24.45	25.1
20	QPSK	1	53	24.51	24.60	24.60	
20	QPSK	1	104	24.55	24.56	24.50	
20	QPSK	50	0	23.59	23.60	23.51	24.1
20	QPSK	50	28	24.56	24.60	24.58	25.1
20	QPSK	50	56	23.64	23.69	23.67	24.1
20	QPSK	100	0	23.56	23.60	23.54	
20	16QAM	1	1	23.69	23.77	23.69	24.1
20	64QAM	1	1	22.05	22.14	22.11	22.6
20	256QAM	1	1	20.03	20.06	20.02	20.6
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.38	24.50	24.42	25.1
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.37	24.48	24.49	25.1
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.42	24.53	24.47	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				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	23.80	23.82	23.79	25.0
50	PI/2 BPSK	1	135	23.67	23.72	23.69	
50	PI/2 BPSK	1	268	23.61	23.69	23.59	
50	PI/2 BPSK	135	0	23.27	23.34	23.34	24.5
50	PI/2 BPSK	135	68	23.72	23.80	23.76	25.0
50	PI/2 BPSK	135	135	23.20	23.25	23.21	24.5
50	PI/2 BPSK	270	0	23.26	23.32	23.22	
50	QPSK	1	1	23.72	23.80	23.76	25.0
50	QPSK	1	135	23.79	23.80	23.70	
50	QPSK	1	268	23.71	23.77	23.76	
50	QPSK	135	0	22.76	22.85	22.82	24.0
50	QPSK	135	68	23.76	23.81	23.71	25.0
50	QPSK	135	135	22.81	22.81	22.72	24.0
50	QPSK	270	0	22.83	22.83	22.79	
50	16QAM	1	1	22.93	22.96	22.95	24.0
50	64QAM	1	1	21.68	21.68	21.61	22.5
50	256QAM	1	1	19.20	19.25	19.17	20.5
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	23.71	23.76	23.74	25.0
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	23.73	23.75	23.77	25.0
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	23.78	23.78	23.69	25.0
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	23.79	23.79	23.77	25.0
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.80	23.79	23.77	25.0
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.79	23.80	23.69	25.0
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.73	23.72	23.74	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	17.45	17.52	17.42	18.6
50	PI/2 BPSK	1	135	17.44	17.46	17.41	
50	PI/2 BPSK	1	268	17.24	17.30	17.21	
50	PI/2 BPSK	135	0	17.43	17.47	17.44	18.6
50	PI/2 BPSK	135	68	17.26	17.36	17.26	18.6
50	PI/2 BPSK	135	135	17.21	17.27	17.21	18.6
50	PI/2 BPSK	270	0	17.31	17.32	17.32	
50	QPSK	1	1	17.42	17.47	17.43	18.6
50	QPSK	1	135	17.31	17.38	17.33	
50	QPSK	1	268	17.14	17.21	17.11	
50	QPSK	135	0	17.39	17.47	17.42	18.6
50	QPSK	135	68	17.25	17.32	17.31	18.6
50	QPSK	135	135	17.15	17.24	17.17	18.6
50	QPSK	270	0	17.22	17.32	17.25	
50	16QAM	1	1	17.40	17.45	17.39	18.6
50	64QAM	1	1	17.31	17.36	17.33	18.6
50	256QAM	1	1	17.23	17.28	17.19	18.6
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	17.40	17.42	17.32	18.6
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	17.40	17.46	17.35	18.6
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	17.41	17.44	17.40	18.6
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	17.43	17.42	17.39	18.6
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	17.41	17.39	17.36	18.6
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	17.37	17.38	17.41	18.6
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	17.44	17.43	17.35	18.6



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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				505000	507000	509000	20.8
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	19.23	19.25	19.23	
50	PI/2 BPSK	1	135	19.10	19.12	19.07	20.8
50	PI/2 BPSK	1	268	19.08	19.10	19.00	
50	PI/2 BPSK	135	0	19.12	19.15	19.13	
50	PI/2 BPSK	135	68	19.08	19.10	19.03	20.8
50	PI/2 BPSK	135	135	19.03	19.10	19.00	
50	PI/2 BPSK	270	0	19.08	19.12	19.10	
50	QPSK	1	1	19.12	19.22	19.19	20.8
50	QPSK	1	135	19.06	19.09	19.03	
50	QPSK	1	268	19.06	19.07	19.11	
50	QPSK	135	0	19.12	19.15	19.15	20.8
50	QPSK	135	68	19.05	19.09	19.02	
50	QPSK	135	135	19.04	19.07	19.06	
50	QPSK	270	0	19.12	19.05	19.06	20.8
50	16QAM	1	1	19.13	19.19	19.17	
50	64QAM	1	1	19.11	19.15	19.15	
50	256QAM	1	1	19.19	19.23	19.23	20.3
Channel				504000	507000	510000	20.8
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	19.12	19.14	19.11	
Channel				503000	507000	511000	20.8
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	19.14	19.10	19.17	
Channel				502500	507000	511500	20.8
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	19.17	19.19	19.19	
Channel				502000	507000	512000	20.8
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	19.13	19.19	19.20	
Channel				501500	507000	512500	20.8
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	19.20	19.17	19.12	
Channel				501000	507000	513000	20.8
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	19.11	19.12	19.11	
Channel				500500	507000	513500	20.8
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	19.10	19.14	19.16	



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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	20.1
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	19.23	19.25	19.23	
50	PI/2 BPSK	1	135	19.10	19.12	19.07	20.1
50	PI/2 BPSK	1	268	19.08	19.10	19.00	
50	PI/2 BPSK	135	0	19.12	19.15	19.13	20.1
50	PI/2 BPSK	135	68	19.08	19.10	19.03	20.1
50	PI/2 BPSK	135	135	19.03	19.10	19.00	20.1
50	PI/2 BPSK	270	0	19.08	19.12	19.10	
50	QPSK	1	1	19.12	19.22	19.19	20.1
50	QPSK	1	135	19.06	19.09	19.03	
50	QPSK	1	268	19.06	19.07	19.11	
50	QPSK	135	0	19.12	19.15	19.15	20.1
50	QPSK	135	68	19.05	19.09	19.02	20.1
50	QPSK	135	135	19.04	19.07	19.06	20.1
50	QPSK	270	0	19.12	19.05	19.06	
50	16QAM	1	1	19.13	19.19	19.17	20.1
50	64QAM	1	1	19.11	19.15	19.15	20.1
50	256QAM	1	1	19.19	19.23	19.23	20.1
Channel				504000	507000	510000	20.1
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	19.12	19.14	19.11	20.1
Channel				503000	507000	511000	20.1
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	19.14	19.10	19.17	20.1
Channel				502500	507000	511500	20.1
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	19.17	19.19	19.19	20.1
Channel				502000	507000	512000	20.1
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	19.13	19.19	19.20	20.1
Channel				501500	507000	512500	20.1
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	19.20	19.17	19.12	20.1
Channel				501000	507000	513000	20.1
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	19.11	19.12	19.11	20.1
Channel				500500	507000	513500	20.1
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	19.10	19.14	19.16	20.1



<FR1 n7\_Ant 2\_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	21.18	21.30	21.13	22.8
50	PI/2 BPSK	1	135	20.99	21.08	20.99	
50	PI/2 BPSK	1	268	20.92	21.02	20.94	
50	PI/2 BPSK	135	0	21.10	21.10	21.06	22.8
50	PI/2 BPSK	135	68	20.99	20.99	20.99	22.8
50	PI/2 BPSK	135	135	20.94	20.95	20.87	22.8
50	PI/2 BPSK	270	0	20.94	20.98	20.91	
50	QPSK	1	1	21.20	21.20	21.13	22.8
50	QPSK	1	135	20.94	21.04	21.04	
50	QPSK	1	268	20.94	20.96	20.94	
50	QPSK	135	0	20.98	21.02	20.97	22.8
50	QPSK	135	68	20.89	20.97	20.88	22.8
50	QPSK	135	135	20.89	20.92	20.83	22.8
50	QPSK	270	0	20.86	20.94	20.93	
50	16QAM	1	1	21.17	21.17	21.13	22.8
50	64QAM	1	1	21.05	21.11	21.01	22.8
50	256QAM	1	1	20.32	20.42	20.41	20.8
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	21.08	21.10	21.07	22.8
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	21.10	21.06	21.11	22.8
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	21.06	21.07	21.08	22.8
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	21.11	21.15	21.12	22.8
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	21.10	21.11	21.11	22.8
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	21.11	21.08	21.10	22.8
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	21.14	21.10	21.10	22.8



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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				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	21.18	21.30	21.13	22.1
50	PI/2 BPSK	1	135	20.99	21.08	20.99	
50	PI/2 BPSK	1	268	20.92	21.02	20.94	
50	PI/2 BPSK	135	0	21.10	21.10	21.06	22.1
50	PI/2 BPSK	135	68	20.99	20.99	20.99	22.1
50	PI/2 BPSK	135	135	20.94	20.95	20.87	22.1
50	PI/2 BPSK	270	0	20.94	20.98	20.91	
50	QPSK	1	1	21.20	21.20	21.13	22.1
50	QPSK	1	135	20.94	21.04	21.04	
50	QPSK	1	268	20.94	20.96	20.94	
50	QPSK	135	0	20.98	21.02	20.97	22.1
50	QPSK	135	68	20.89	20.97	20.88	22.1
50	QPSK	135	135	20.89	20.92	20.83	22.1
50	QPSK	270	0	20.86	20.94	20.93	
50	16QAM	1	1	21.17	21.17	21.13	22.1
50	64QAM	1	1	21.05	21.11	21.01	22.1
50	256QAM	1	1	20.32	20.42	20.41	20.9
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	21.08	21.10	21.07	22.1
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	21.10	21.06	21.11	22.1
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	21.06	21.07	21.08	22.1
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	21.11	21.15	21.12	22.1
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	21.10	21.11	21.11	22.1
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	21.11	21.08	21.10	22.1
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	21.14	21.10	21.10	22.1



<FR1 n7\_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				505000	507000	509000	19.9
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	18.91	18.97	18.90	
50	PI/2 BPSK	1	135	18.83	18.88	18.82	19.9
50	PI/2 BPSK	1	268	18.80	18.89	18.84	
50	PI/2 BPSK	135	0	18.83	18.91	18.91	19.9
50	PI/2 BPSK	135	68	18.80	18.86	18.78	19.9
50	PI/2 BPSK	135	135	18.79	18.84	18.79	19.9
50	PI/2 BPSK	270	0	18.77	18.83	18.78	
50	QPSK	1	1	18.88	18.97	18.90	19.9
50	QPSK	1	135	18.80	18.84	18.83	
50	QPSK	1	268	18.83	18.88	18.78	
50	QPSK	135	0	18.83	18.88	18.86	19.9
50	QPSK	135	68	18.74	18.77	18.73	19.9
50	QPSK	135	135	18.73	18.83	18.80	19.9
50	QPSK	270	0	18.72	18.79	18.77	
50	16QAM	1	1	18.93	18.93	18.93	19.9
50	64QAM	1	1	18.74	18.80	18.71	19.9
50	256QAM	1	1	18.78	18.79	18.69	19.9
Channel				504000	507000	510000	19.9
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	18.88	18.80	18.85	19.9
Channel				503000	507000	511000	19.9
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	18.80	18.88	18.85	19.9
Channel				502500	507000	511500	19.9
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	18.83	18.80	18.79	19.9
Channel				502000	507000	512000	19.9
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	18.83	18.86	18.88	19.9
Channel				501500	507000	512500	19.9
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	18.84	18.80	18.88	19.9
Channel				501000	507000	513000	19.9
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	18.81	18.87	18.83	19.9
Channel				500500	507000	513500	19.9
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	18.86	18.86	18.84	19.9



<FR1 n7\_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				505000	507000	509000	20.6
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	18.91	18.97	18.90	
50	PI/2 BPSK	1	135	18.83	18.88	18.82	20.6
50	PI/2 BPSK	1	268	18.80	18.89	18.84	
50	PI/2 BPSK	135	0	18.83	18.91	18.91	20.6
50	PI/2 BPSK	135	68	18.80	18.86	18.78	20.6
50	PI/2 BPSK	135	135	18.79	18.84	18.79	20.6
50	PI/2 BPSK	270	0	18.77	18.83	18.78	
50	QPSK	1	1	18.88	18.97	18.90	20.6
50	QPSK	1	135	18.80	18.84	18.83	
50	QPSK	1	268	18.83	18.88	18.78	
50	QPSK	135	0	18.83	18.88	18.86	20.6
50	QPSK	135	68	18.74	18.77	18.73	20.6
50	QPSK	135	135	18.73	18.83	18.80	20.6
50	QPSK	270	0	18.72	18.79	18.77	
50	16QAM	1	1	18.93	18.93	18.93	20.6
50	64QAM	1	1	18.74	18.80	18.71	20.6
50	256QAM	1	1	18.78	18.79	18.69	20.6
Channel				504000	507000	510000	20.6
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	18.88	18.80	18.85	20.6
Channel				503000	507000	511000	20.6
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	18.80	18.88	18.85	20.6
Channel				502500	507000	511500	20.6
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	18.83	18.80	18.79	20.6
Channel				502000	507000	512000	20.6
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	18.83	18.86	18.88	20.6
Channel				501500	507000	512500	20.6
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	18.84	18.80	18.88	20.6
Channel				501000	507000	513000	20.6
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	18.81	18.87	18.83	20.6
Channel				500500	507000	513500	20.6
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	18.86	18.86	18.84	20.6





<FR1 n7\_Ant 2\_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				505000	507000	509000	19.9
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	18.91	18.97	18.90	
50	PI/2 BPSK	1	135	18.83	18.88	18.82	19.9
50	PI/2 BPSK	1	268	18.80	18.89	18.84	
50	PI/2 BPSK	135	0	18.83	18.91	18.91	19.9
50	PI/2 BPSK	135	68	18.80	18.86	18.78	19.9
50	PI/2 BPSK	135	135	18.79	18.84	18.79	19.9
50	PI/2 BPSK	270	0	18.77	18.83	18.78	
50	QPSK	1	1	18.88	18.97	18.90	19.9
50	QPSK	1	135	18.80	18.84	18.83	
50	QPSK	1	268	18.83	18.88	18.78	
50	QPSK	135	0	18.83	18.88	18.86	19.9
50	QPSK	135	68	18.74	18.77	18.73	19.9
50	QPSK	135	135	18.73	18.83	18.80	19.9
50	QPSK	270	0	18.72	18.79	18.77	
50	16QAM	1	1	18.93	18.93	18.93	19.9
50	64QAM	1	1	18.74	18.80	18.71	19.9
50	256QAM	1	1	18.78	18.79	18.69	19.9
Channel				504000	507000	510000	19.9
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	18.88	18.80	18.85	19.9
Channel				503000	507000	511000	19.9
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	18.80	18.88	18.85	19.9
Channel				502500	507000	511500	19.9
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	18.83	18.80	18.79	19.9
Channel				502000	507000	512000	19.9
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	18.83	18.86	18.88	19.9
Channel				501500	507000	512500	19.9
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	18.84	18.80	18.88	19.9
Channel				501000	507000	513000	19.9
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	18.81	18.87	18.83	19.9
Channel				500500	507000	513500	19.9
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	18.86	18.86	18.84	19.9



<FR1 n12\_Ant 0\_Index 2/3/4/5/6>

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	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.58	24.66	24.61	25.5
15	PI/2 BPSK	1	40	24.53	24.53	24.52	
15	PI/2 BPSK	1	77	24.64	24.65	24.64	
15	PI/2 BPSK	36	0	24.10	24.11	24.10	25.0
15	PI/2 BPSK	36	22	24.62	24.61	24.59	25.5
15	PI/2 BPSK	36	43	24.13	24.16	24.15	25.0
15	PI/2 BPSK	75	0	24.11	24.12	24.10	
15	QPSK	1	1	24.60	24.59	24.62	25.5
15	QPSK	1	40	24.54	24.54	24.54	
15	QPSK	1	77	24.64	24.58	24.63	
15	QPSK	36	0	23.63	23.63	23.62	24.5
15	QPSK	36	22	24.61	24.62	24.61	25.5
15	QPSK	36	43	23.63	23.66	23.66	24.5
15	QPSK	75	0	23.63	23.63	23.62	
15	16QAM	1	1	23.60	23.64	23.60	24.5
15	64QAM	1	1	22.03	21.92	22.19	23.0
15	256QAM	1	1	20.08	19.97	20.10	21.0
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.46	24.48	24.47	25.5
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.44	24.47	24.46	25.5

<FR1 n12\_Ant 1\_Index 4/5/6>

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	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.59	24.63	24.63	25.1
15	PI/2 BPSK	1	40	24.56	24.66	24.60	
15	PI/2 BPSK	1	77	24.82	24.84	24.83	
15	PI/2 BPSK	36	0	24.15	24.18	24.09	24.6
15	PI/2 BPSK	36	22	24.63	24.72	24.72	25.1
15	PI/2 BPSK	36	43	24.21	24.31	24.29	24.6
15	PI/2 BPSK	75	0	24.21	24.22	24.21	
15	QPSK	1	1	24.60	24.65	24.62	25.1
15	QPSK	1	40	24.57	24.61	24.58	
15	QPSK	1	77	24.73	24.77	24.71	
15	QPSK	36	0	23.63	23.69	23.60	24.1
15	QPSK	36	22	24.74	24.74	24.73	25.1
15	QPSK	36	43	23.71	23.80	23.76	24.1
15	QPSK	75	0	23.70	23.72	23.62	
15	16QAM	1	1	23.53	23.61	23.61	24.1
15	64QAM	1	1	22.13	22.14	22.05	22.6
15	256QAM	1	1	19.98	20.02	19.97	20.6
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.51	24.57	24.54	25.1
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.59	24.56	24.62	25.1



<FR1 n12\_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				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	21.66	21.67	21.62	23.4
15	PI/2 BPSK	1	40	21.62	21.61	21.62	
15	PI/2 BPSK	1	77	21.60	21.65	21.61	
15	PI/2 BPSK	36	0	21.60	21.69	21.65	23.4
15	PI/2 BPSK	36	22	21.62	21.65	21.64	23.4
15	PI/2 BPSK	36	43	21.68	21.68	21.66	23.4
15	PI/2 BPSK	75	0	21.61	21.67	21.65	
15	QPSK	1	1	21.64	21.65	21.61	23.4
15	QPSK	1	40	21.63	21.66	21.64	
15	QPSK	1	77	21.60	21.68	21.63	
15	QPSK	36	0	21.63	21.63	21.65	23.4
15	QPSK	36	22	21.61	21.65	21.63	23.4
15	QPSK	36	43	21.61	21.66	21.60	23.4
15	QPSK	75	0	21.62	21.63	21.63	
15	16QAM	1	1	21.61	21.66	21.65	23.4
15	64QAM	1	1	21.59	21.67	21.62	22.4
	256QAM	1	1	19.76	19.76	19.70	20.4
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	21.65	21.66	21.63	23.4
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	21.66	21.67	21.63	23.4

<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	21.66	21.67	21.62	22.7
15	PI/2 BPSK	1	40	21.62	21.61	21.62	
15	PI/2 BPSK	1	77	21.60	21.65	21.61	
15	PI/2 BPSK	36	0	21.60	21.69	21.65	22.7
15	PI/2 BPSK	36	22	21.62	21.65	21.64	22.7
15	PI/2 BPSK	36	43	21.68	21.68	21.66	22.7
15	PI/2 BPSK	75	0	21.61	21.67	21.65	
15	QPSK	1	1	21.64	21.65	21.61	22.7
15	QPSK	1	40	21.63	21.66	21.64	
15	QPSK	1	77	21.60	21.68	21.63	
15	QPSK	36	0	21.63	21.63	21.65	22.7
15	QPSK	36	22	21.61	21.65	21.63	22.7
15	QPSK	36	43	21.61	21.66	21.60	22.7
15	QPSK	75	0	21.62	21.63	21.63	
15	16QAM	1	1	21.61	21.66	21.65	22.7
15	64QAM	1	1	21.59	21.67	21.62	22.2
	256QAM	1	1	19.76	19.76	19.70	20.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	21.65	21.66	21.63	22.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	21.66	21.67	21.63	22.7



<FR1 n25\_Ant 0\_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	25.3
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	24.35	24.36	24.32	25.3
40	PI/2 BPSK	1	108	24.54	24.58	24.56	
40	PI/2 BPSK	1	214	24.29	24.39	24.29	
40	PI/2 BPSK	108	0	23.99	23.99	23.91	24.8
40	PI/2 BPSK	108	54	24.48	24.56	24.53	25.3
40	PI/2 BPSK	108	108	24.04	24.05	23.98	24.8
40	PI/2 BPSK	216	0	24.01	24.09	24.05	
40	QPSK	1	1	24.34	24.44	24.42	25.3
40	QPSK	1	108	24.51	24.57	24.47	
40	QPSK	1	214	24.40	24.41	24.32	
40	QPSK	108	0	23.51	23.52	23.50	24.3
40	QPSK	108	54	24.51	24.57	24.51	25.3
40	QPSK	108	108	23.62	23.62	23.54	24.3
40	QPSK	216	0	23.50	23.60	23.53	
40	16QAM	1	1	23.36	23.36	23.34	24.3
40	64QAM	1	1	21.99	21.99	21.92	22.8
40	256QAM	1	1	20.12	20.21	20.19	20.8
Channel				373000	376500	380000	25.3
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	24.34	24.32	24.32	25.3
Channel				372500	376500	380500	25.3
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	24.26	24.35	24.23	25.3
Channel				372000	376500	381000	25.3
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	24.25	24.33	24.32	25.3
Channel				371500	376500	381500	25.3
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	24.33	24.35	24.26	25.3
Channel				371000	376500	382000	25.3
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	24.26	24.36	24.23	25.3
Channel				370500	376500	382500	25.3
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	24.34	24.26	24.24	25.3



<FR1 n25\_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				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	18.06	18.20	18.06	18.2
40	PI/2 BPSK	1	108	18.00	18.09	18.00	
40	PI/2 BPSK	1	214	17.81	17.82	17.81	
40	PI/2 BPSK	108	0	18.03	18.20	18.03	18.2
40	PI/2 BPSK	108	54	18.02	18.11	18.01	18.2
40	PI/2 BPSK	108	108	18.08	18.10	18.08	18.2
40	PI/2 BPSK	216	0	18.04	18.20	18.04	
40	QPSK	1	1	18.15	18.15	18.15	18.2
40	QPSK	1	108	18.01	18.09	18.01	
40	QPSK	1	214	17.75	17.75	17.75	
40	QPSK	108	0	18.01	18.08	18.01	18.2
40	QPSK	108	54	18.07	18.11	18.07	18.2
40	QPSK	108	108	17.92	18.02	17.92	18.2
40	QPSK	216	0	17.99	18.03	17.99	
40	16QAM	1	1	17.98	18.06	17.98	18.2
40	64QAM	1	1	18.04	18.08	18.04	18.2
40	256QAM	1	1	18.06	18.10	18.06	18.2
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	18.09	18.06	18.10	18.2
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	18.02	18.04	18.04	18.2
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	18.04	18.06	18.03	18.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	18.05	18.03	18.01	18.2
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	18.06	18.03	18.02	18.2
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	18.03	18.01	18.04	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				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	18.06	18.20	18.06	19.5
40	PI/2 BPSK	1	108	18.00	18.09	18.00	
40	PI/2 BPSK	1	214	17.81	17.82	17.81	
40	PI/2 BPSK	108	0	18.03	18.20	18.03	19.5
40	PI/2 BPSK	108	54	18.02	18.11	18.01	19.5
40	PI/2 BPSK	108	108	18.08	18.10	18.08	19.5
40	PI/2 BPSK	216	0	18.04	18.20	18.04	
40	QPSK	1	1	18.15	18.15	18.15	19.5
40	QPSK	1	108	18.01	18.09	18.01	
40	QPSK	1	214	17.75	17.75	17.75	
40	QPSK	108	0	18.01	18.08	18.01	19.5
40	QPSK	108	54	18.07	18.11	18.07	19.5
40	QPSK	108	108	17.92	18.02	17.92	19.5
40	QPSK	216	0	17.99	18.03	17.99	
40	16QAM	1	1	17.98	18.06	17.98	19.5
40	64QAM	1	1	18.04	18.08	18.04	19.5
40	256QAM	1	1	18.06	18.10	18.06	19.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	18.09	18.06	18.10	19.5
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	18.02	18.04	18.04	19.5
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	18.04	18.06	18.03	19.5
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	18.05	18.03	18.01	19.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	18.06	18.03	18.02	19.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	18.03	18.01	18.04	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				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	18.06	18.20	18.06	18.8
40	PI/2 BPSK	1	108	18.00	18.09	18.00	
40	PI/2 BPSK	1	214	17.81	17.82	17.81	
40	PI/2 BPSK	108	0	18.03	18.20	18.03	18.8
40	PI/2 BPSK	108	54	18.02	18.11	18.01	18.8
40	PI/2 BPSK	108	108	18.08	18.10	18.08	18.8
40	PI/2 BPSK	216	0	18.04	18.20	18.04	
40	QPSK	1	1	18.15	18.15	18.15	18.8
40	QPSK	1	108	18.01	18.09	18.01	
40	QPSK	1	214	17.75	17.75	17.75	
40	QPSK	108	0	18.01	18.08	18.01	18.8
40	QPSK	108	54	18.07	18.11	18.07	18.8
40	QPSK	108	108	17.92	18.02	17.92	18.8
40	QPSK	216	0	17.99	18.03	17.99	
40	16QAM	1	1	17.98	18.06	17.98	18.8
40	64QAM	1	1	18.04	18.08	18.04	18.8
40	256QAM	1	1	18.06	18.10	18.06	18.8
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	18.09	18.06	18.10	18.8
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	18.02	18.04	18.04	18.8
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	18.04	18.06	18.03	18.8
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	18.05	18.03	18.01	18.8
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	18.06	18.03	18.02	18.8
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	18.03	18.01	18.04	18.8



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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				374000	376500	379000	24.7
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.41	23.42	23.30	24.7
40	PI/2 BPSK	1	108	23.38	23.37	23.28	
40	PI/2 BPSK	1	214	23.15	23.11	23.05	
40	PI/2 BPSK	108	0	23.34	23.31	23.33	24.7
40	PI/2 BPSK	108	54	23.32	23.35	23.33	24.7
40	PI/2 BPSK	108	108	23.24	23.31	23.31	24.7
40	PI/2 BPSK	216	0	23.21	23.39	23.31	
40	QPSK	1	1	23.41	23.31	23.32	24.7
40	QPSK	1	108	23.40	23.34	23.39	
40	QPSK	1	214	23.12	23.11	23.15	
40	QPSK	108	0	22.37	22.29	22.39	24.2
40	QPSK	108	54	23.32	23.35	23.41	24.7
40	QPSK	108	108	22.25	22.30	22.34	24.2
40	QPSK	216	0	22.22	22.40	22.51	
40	16QAM	1	1	22.42	22.29	22.23	24.2
40	64QAM	1	1	21.99	21.86	21.81	22.7
40	256QAM	1	1	19.95	19.94	19.92	20.7
Channel				373000	376500	380000	24.7
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.41	23.38	23.37	24.7
Channel				372500	376500	380500	24.7
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.38	23.39	23.35	24.7
Channel				372000	376500	381000	24.7
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.33	23.32	23.33	24.7
Channel				371500	376500	381500	24.7
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.31	23.36	23.33	24.7
Channel				371000	376500	382000	24.7
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.32	23.30	23.29	24.7
Channel				370500	376500	382500	24.7
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.38	23.35	23.31	24.7





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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				374000	376500	379000	24.0
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.41	23.42	23.30	24.0
40	PI/2 BPSK	1	108	23.38	23.37	23.28	
40	PI/2 BPSK	1	214	23.15	23.11	23.05	
40	PI/2 BPSK	108	0	23.34	23.31	23.33	24.0
40	PI/2 BPSK	108	54	23.32	23.35	23.33	24.0
40	PI/2 BPSK	108	108	23.24	23.31	23.31	24.0
40	PI/2 BPSK	216	0	23.21	23.39	23.31	
40	QPSK	1	1	23.41	23.31	23.32	24.0
40	QPSK	1	108	23.40	23.34	23.39	
40	QPSK	1	214	23.12	23.11	23.15	
40	QPSK	108	0	22.37	22.29	22.39	24.0
40	QPSK	108	54	23.32	23.35	23.41	24.0
40	QPSK	108	108	22.25	22.30	22.34	24.0
40	QPSK	216	0	22.22	22.40	22.51	
40	16QAM	1	1	22.42	22.29	22.23	24.0
40	64QAM	1	1	21.99	21.86	21.81	23.0
40	256QAM	1	1	19.95	19.94	19.92	21.0
Channel				373000	376500	380000	24.0
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.41	23.38	23.37	24.0
Channel				372500	376500	380500	24.0
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.38	23.39	23.35	24.0
Channel				372000	376500	381000	24.0
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.33	23.32	23.33	24.0
Channel				371500	376500	381500	24.0
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.31	23.36	23.33	24.0
Channel				371000	376500	382000	24.0
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.32	23.30	23.29	24.0
Channel				370500	376500	382500	24.0
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.38	23.35	23.31	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				374000	376500	379000	21.2
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	20.19	20.29	20.27	21.2
40	PI/2 BPSK	1	108	20.22	20.27	20.24	
40	PI/2 BPSK	1	214	19.94	20.00	19.91	
40	PI/2 BPSK	108	0	20.22	20.24	20.15	21.2
40	PI/2 BPSK	108	54	20.16	20.23	20.13	21.2
40	PI/2 BPSK	108	108	20.17	20.20	20.18	21.2
40	PI/2 BPSK	216	0	20.20	20.25	20.20	
40	QPSK	1	1	20.24	20.25	20.19	21.2
40	QPSK	1	108	20.16	20.19	20.12	
40	QPSK	1	214	19.95	19.93	19.92	
40	QPSK	108	0	20.13	20.19	20.14	21.2
40	QPSK	108	54	20.10	20.15	20.11	21.2
40	QPSK	108	108	20.16	20.18	20.13	21.2
40	QPSK	216	0	20.20	20.23	20.18	
40	16QAM	1	1	19.99	19.93	19.96	21.2
40	64QAM	1	1	20.09	20.19	20.13	21.2
40	256QAM	1	1	19.86	19.88	19.81	21.0
Channel				373000	376500	380000	21.2
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	20.13	20.17	20.16	21.2
Channel				372500	376500	380500	21.2
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	20.17	20.21	20.16	21.2
Channel				372000	376500	381000	21.2
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	20.14	20.25	20.19	21.2
Channel				371500	376500	381500	21.2
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	20.14	20.22	20.16	21.2
Channel				371000	376500	382000	21.2
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	20.18	20.18	20.24	21.2
Channel				370500	376500	382500	21.2
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	20.14	20.18	20.19	21.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	21.9
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	20.19	20.29	20.27	21.9
40	PI/2 BPSK	1	108	20.22	20.27	20.24	
40	PI/2 BPSK	1	214	19.94	20.00	19.91	21.9
40	PI/2 BPSK	108	0	20.22	20.24	20.15	
40	PI/2 BPSK	108	54	20.16	20.23	20.13	21.9
40	PI/2 BPSK	108	108	20.17	20.20	20.18	
40	PI/2 BPSK	216	0	20.20	20.25	20.20	21.9
40	QPSK	1	1	20.24	20.25	20.19	
40	QPSK	1	108	20.16	20.19	20.12	21.9
40	QPSK	1	214	19.95	19.93	19.92	
40	QPSK	108	0	20.13	20.19	20.14	21.9
40	QPSK	108	54	20.10	20.15	20.11	
40	QPSK	108	108	20.16	20.18	20.13	21.9
40	QPSK	216	0	20.20	20.23	20.18	
40	16QAM	1	1	19.99	19.93	19.96	21.9
40	64QAM	1	1	20.09	20.19	20.13	
40	256QAM	1	1	19.86	19.88	19.81	21.0
Channel				373000	376500	380000	21.9
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	20.13	20.17	20.16	21.9
Channel				372500	376500	380500	21.9
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	20.17	20.21	20.16	21.9
Channel				372000	376500	381000	21.9
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	20.14	20.25	20.19	21.9
Channel				371500	376500	381500	21.9
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	20.14	20.22	20.16	21.9
Channel				371000	376500	382000	21.9
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	20.18	20.18	20.24	21.9
Channel				370500	376500	382500	21.9
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	20.14	20.18	20.19	21.9



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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				374000	376500	379000	21.2
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	20.19	20.29	20.27	21.2
40	PI/2 BPSK	1	108	20.22	20.27	20.24	
40	PI/2 BPSK	1	214	19.94	20.00	19.91	
40	PI/2 BPSK	108	0	20.22	20.24	20.15	21.2
40	PI/2 BPSK	108	54	20.16	20.23	20.13	21.2
40	PI/2 BPSK	108	108	20.17	20.20	20.18	21.2
40	PI/2 BPSK	216	0	20.20	20.25	20.20	
40	QPSK	1	1	20.24	20.25	20.19	21.2
40	QPSK	1	108	20.16	20.19	20.12	
40	QPSK	1	214	19.95	19.93	19.92	
40	QPSK	108	0	20.13	20.19	20.14	21.2
40	QPSK	108	54	20.10	20.15	20.11	21.2
40	QPSK	108	108	20.16	20.18	20.13	21.2
40	QPSK	216	0	20.20	20.23	20.18	
40	16QAM	1	1	19.99	19.93	19.96	21.2
40	64QAM	1	1	20.09	20.19	20.13	21.2
40	256QAM	1	1	19.86	19.88	19.81	21.0
Channel				373000	376500	380000	21.2
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	20.13	20.17	20.16	21.2
Channel				372500	376500	380500	21.2
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	20.17	20.21	20.16	21.2
Channel				372000	376500	381000	21.2
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	20.14	20.25	20.19	21.2
Channel				371500	376500	381500	21.2
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	20.14	20.22	20.16	21.2
Channel				371000	376500	382000	21.2
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	20.18	20.18	20.24	21.2
Channel				370500	376500	382500	21.2
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	20.14	20.18	20.19	21.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.56	24.60	24.58	25.5
20	PI/2 BPSK	1	53	24.53	24.59	24.52	
20	PI/2 BPSK	1	104	24.51	24.57	24.43	
20	PI/2 BPSK	50	0	24.10	24.19	24.09	25.0
20	PI/2 BPSK	50	28	24.47	24.52	24.52	25.5
20	PI/2 BPSK	50	56	24.27	24.21	24.04	25.0
20	PI/2 BPSK	100	0	24.18	24.23	24.09	
20	QPSK	1	1	24.52	24.55	24.53	25.5
20	QPSK	1	53	24.54	24.52	24.57	
20	QPSK	1	104	24.53	24.54	24.42	
20	QPSK	50	0	23.62	23.68	23.60	24.5
20	QPSK	50	28	24.56	24.52	24.52	25.5
20	QPSK	50	56	23.75	23.69	23.54	24.5
20	QPSK	100	0	23.68	23.71	23.59	
20	16QAM	1	1	23.66	23.67	23.57	24.5
20	64QAM	1	1	22.08	22.18	22.04	23.0
20	256QAM	1	1	20.22	20.13	20.14	21.0
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.53	24.48	24.49	25.5
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.48	24.51	24.52	25.5
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.55	24.56	24.57	25.5



<FR1 n26\_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				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.56	24.60	24.58	25.1
20	PI/2 BPSK	1	53	24.53	24.59	24.52	
20	PI/2 BPSK	1	104	24.51	24.57	24.43	
20	PI/2 BPSK	50	0	24.10	24.19	24.09	24.6
20	PI/2 BPSK	50	28	24.47	24.52	24.52	25.1
20	PI/2 BPSK	50	56	24.27	24.21	24.04	24.6
20	PI/2 BPSK	100	0	24.18	24.23	24.09	
20	QPSK	1	1	24.52	24.55	24.53	25.1
20	QPSK	1	53	24.54	24.52	24.57	
20	QPSK	1	104	24.53	24.54	24.42	
20	QPSK	50	0	23.62	23.68	23.60	24.1
20	QPSK	50	28	24.56	24.52	24.52	25.1
20	QPSK	50	56	23.75	23.69	23.54	24.1
20	QPSK	100	0	23.68	23.71	23.59	
20	16QAM	1	1	23.66	23.67	23.57	24.1
20	64QAM	1	1	22.08	22.18	22.04	22.6
20	256QAM	1	1	20.22	20.13	20.14	20.6
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.53	24.48	24.49	25.1
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.48	24.51	24.52	25.1
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.55	24.56	24.57	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				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.68	24.75	24.70	25.1
20	PI/2 BPSK	1	53	24.70	24.74	24.72	
20	PI/2 BPSK	1	104	24.76	24.81	24.77	
20	PI/2 BPSK	50	0	24.16	24.25	24.23	24.6
20	PI/2 BPSK	50	28	24.66	24.75	24.72	25.1
20	PI/2 BPSK	50	56	24.18	24.27	24.20	24.6
20	PI/2 BPSK	100	0	24.25	24.31	24.27	
20	QPSK	1	1	24.68	24.70	24.62	25.1
20	QPSK	1	53	24.72	24.77	24.68	
20	QPSK	1	104	24.71	24.80	24.74	
20	QPSK	50	0	23.64	23.74	23.65	24.1
20	QPSK	50	28	24.73	24.78	24.71	25.1
20	QPSK	50	56	23.73	23.78	23.76	24.1
20	QPSK	100	0	23.74	23.79	23.75	
20	16QAM	1	1	23.83	23.83	23.76	24.1
20	64QAM	1	1	21.93	22.02	22.02	22.6
20	256QAM	1	1	20.08	20.13	20.13	20.6
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.63	24.72	24.70	25.1
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.60	24.65	24.70	25.1
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.63	24.74	24.65	25.1



<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	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	20.35	20.43	20.32	21.3
20	PI/2 BPSK	1	53	20.42	20.42	20.31	
20	PI/2 BPSK	1	104	20.26	20.40	20.25	
20	PI/2 BPSK	50	0	20.33	20.41	20.29	21.3
20	PI/2 BPSK	50	28	20.32	20.42	20.36	21.3
20	PI/2 BPSK	50	56	20.30	20.41	20.29	21.3
20	PI/2 BPSK	100	0	20.34	20.42	20.32	
20	QPSK	1	1	20.41	20.31	20.40	21.3
20	QPSK	1	53	20.40	20.40	20.42	
20	QPSK	1	104	20.36	20.36	20.34	
20	QPSK	50	0	20.30	20.39	20.36	21.3
20	QPSK	50	28	20.34	20.41	20.38	21.3
20	QPSK	50	56	20.24	20.41	20.31	21.3
20	QPSK	100	0	20.35	20.34	20.35	
20	16QAM	1	1	20.31	20.34	20.36	21.3
20	64QAM	1	1	20.36	20.33	20.29	21.3
20	256QAM	1	1	18.89	18.97	18.83	20.3
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	20.40	20.37	20.27	21.3
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	20.42	20.34	20.31	21.3
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	20.39	20.33	20.25	21.3





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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				164800	166300	167800	Tune-up limit (dBm)
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	20.35	20.43	20.32	20.6
20	PI/2 BPSK	1	53	20.42	20.42	20.31	
20	PI/2 BPSK	1	104	20.26	20.40	20.25	
20	PI/2 BPSK	50	0	20.33	20.41	20.29	20.6
20	PI/2 BPSK	50	28	20.32	20.42	20.36	20.6
20	PI/2 BPSK	50	56	20.30	20.41	20.29	20.6
20	PI/2 BPSK	100	0	20.34	20.42	20.32	
20	QPSK	1	1	20.41	20.31	20.40	20.6
20	QPSK	1	53	20.40	20.40	20.42	
20	QPSK	1	104	20.36	20.36	20.34	
20	QPSK	50	0	20.30	20.39	20.36	20.6
20	QPSK	50	28	20.34	20.41	20.38	20.6
20	QPSK	50	56	20.24	20.41	20.31	20.6
20	QPSK	100	0	20.35	20.34	20.35	
20	16QAM	1	1	20.31	20.34	20.36	20.6
20	64QAM	1	1	20.36	20.33	20.29	20.6
20	256QAM	1	1	18.89	18.97	18.83	20.6
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	20.40	20.37	20.27	20.6
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	20.42	20.34	20.31	20.6
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	20.39	20.33	20.25	20.6



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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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		20.03		20.8
10	PI/2 BPSK	1	26		20.03		
10	PI/2 BPSK	1	50		19.91		
10	PI/2 BPSK	25	0		19.99		20.8
10	PI/2 BPSK	25	14		19.96		20.8
10	PI/2 BPSK	25	27		19.91		20.8
10	PI/2 BPSK	50	0		19.95		
10	QPSK	1	1		20.01		20.8
10	QPSK	1	26		20.04		
10	QPSK	1	50		19.90		
10	QPSK	25	0		19.80		20.8
10	QPSK	25	14		19.96		20.8
10	QPSK	25	27		19.79		20.8
10	QPSK	50	0		19.77		
10	16QAM	1	1		19.79		20.8
10	64QAM	1	1		20.00		20.8
10	256QAM	1	1		18.74		20.5
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	20.01	19.96	20.01	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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		15.69		16.9
10	PI/2 BPSK	1	26		15.76		
10	PI/2 BPSK	1	50		15.62		
10	PI/2 BPSK	25	0		15.65		16.9
10	PI/2 BPSK	25	14		15.65		16.9
10	PI/2 BPSK	25	27		15.64		16.9
10	PI/2 BPSK	50	0		15.65		
10	QPSK	1	1		15.66		16.9
10	QPSK	1	26		15.71		
10	QPSK	1	50		15.56		
10	QPSK	25	0		15.62		16.9
10	QPSK	25	14		15.59		16.9
10	QPSK	25	27		15.63		16.9
10	QPSK	50	0		15.61		
10	16QAM	1	1		15.69		16.9
10	64QAM	1	1		15.68		16.9
10	256QAM	1	1		15.61		16.9
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	15.65	15.56	15.66	16.9



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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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		17.86		19.5
10	PI/2 BPSK	1	26		17.87		
10	PI/2 BPSK	1	50		17.83		
10	PI/2 BPSK	25	0		17.89		19.5
10	PI/2 BPSK	25	14		17.87		19.5
10	PI/2 BPSK	25	27		17.85		19.5
10	PI/2 BPSK	50	0		17.83		
10	QPSK	1	1		17.81		19.5
10	QPSK	1	26		17.78		
10	QPSK	1	50		17.79		
10	QPSK	25	0		17.82		19.5
10	QPSK	25	14		17.87		19.5
10	QPSK	25	27		17.76		19.5
10	QPSK	50	0		17.77		
10	16QAM	1	1		17.79		19.5
10	64QAM	1	1		17.82		19.5
10	256QAM	1	1		17.87		19.5
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	17.85	17.86	17.85	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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		17.86		18.8
10	PI/2 BPSK	1	26		17.87		
10	PI/2 BPSK	1	50		17.83		
10	PI/2 BPSK	25	0		17.89		18.8
10	PI/2 BPSK	25	14		17.87		18.8
10	PI/2 BPSK	25	27		17.85		18.8
10	PI/2 BPSK	50	0		17.83		
10	QPSK	1	1		17.81		18.8
10	QPSK	1	26		17.78		
10	QPSK	1	50		17.79		
10	QPSK	25	0		17.82		18.8
10	QPSK	25	14		17.87		18.8
10	QPSK	25	27		17.76		18.8
10	QPSK	50	0		17.77		
10	16QAM	1	1		17.79		18.8
10	64QAM	1	1		17.82		18.8
10	256QAM	1	1		17.87		18.8
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	17.85	17.86	17.85	18.8



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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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		21.51		22.5
10	PI/2 BPSK	1	26		21.50		
10	PI/2 BPSK	1	50		21.48		
10	PI/2 BPSK	25	0		21.51		22.5
10	PI/2 BPSK	25	14		21.50		22.5
10	PI/2 BPSK	25	27		21.48		22.5
10	PI/2 BPSK	50	0		21.49		
10	QPSK	1	1		21.56		22.5
10	QPSK	1	26		21.56		
10	QPSK	1	50		21.47		
10	QPSK	25	0		21.51		22.5
10	QPSK	25	14		21.51		22.5
10	QPSK	25	27		21.49		22.5
10	QPSK	50	0		21.51		
10	16QAM	1	1		21.47		22.5
10	64QAM	1	1		21.56		22.5
10	256QAM	1	1		19.99		20.9
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	21.48	21.45	21.50	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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		18.42		19.4
10	PI/2 BPSK	1	26		18.40		
10	PI/2 BPSK	1	50		18.35		
10	PI/2 BPSK	25	0		18.41		19.4
10	PI/2 BPSK	25	14		18.40		19.4
10	PI/2 BPSK	25	27		18.38		19.4
10	PI/2 BPSK	50	0		18.38		
10	QPSK	1	1		18.38		19.4
10	QPSK	1	26		18.37		
10	QPSK	1	50		18.32		
10	QPSK	25	0		18.32		19.4
10	QPSK	25	14		18.37		19.4
10	QPSK	25	27		18.30		19.4
10	QPSK	50	0		18.34		
10	16QAM	1	1		18.35		19.4
10	64QAM	1	1		18.32		19.4
10	256QAM	1	1		18.32		19.4
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	18.34	18.30	18.32	19.4



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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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		18.42		20.1
10	PI/2 BPSK	1	26		18.40		
10	PI/2 BPSK	1	50		18.35		
10	PI/2 BPSK	25	0		18.41		20.1
10	PI/2 BPSK	25	14		18.40		20.1
10	PI/2 BPSK	25	27		18.38		20.1
10	PI/2 BPSK	50	0		18.38		
10	QPSK	1	1		18.38		20.1
10	QPSK	1	26		18.37		
10	QPSK	1	50		18.32		
10	QPSK	25	0		18.32		20.1
10	QPSK	25	14		18.37		20.1
10	QPSK	25	27		18.30		20.1
10	QPSK	50	0		18.34		
10	16QAM	1	1		18.35		20.1
10	64QAM	1	1		18.32		20.1
10	256QAM	1	1		18.32		20.1
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	18.34	18.30	18.32	20.1

**<FR1 n30\_Ant 2\_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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		18.42		19.4
10	PI/2 BPSK	1	26		18.40		
10	PI/2 BPSK	1	50		18.35		
10	PI/2 BPSK	25	0		18.41		19.4
10	PI/2 BPSK	25	14		18.40		19.4
10	PI/2 BPSK	25	27		18.38		19.4
10	PI/2 BPSK	50	0		18.38		
10	QPSK	1	1		18.38		19.4
10	QPSK	1	26		18.37		
10	QPSK	1	50		18.32		
10	QPSK	25	0		18.32		19.4
10	QPSK	25	14		18.37		19.4
10	QPSK	25	27		18.30		19.4
10	QPSK	50	0		18.34		
10	16QAM	1	1		18.35		19.4
10	64QAM	1	1		18.32		19.4
10	256QAM	1	1		18.32		19.4
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	18.34	18.30	18.32	19.4



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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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.43	24.46	24.43	25.3
40	PI/2 BPSK	1	108	24.69	24.78	24.76	
40	PI/2 BPSK	1	214	24.53	24.55	24.53	
40	PI/2 BPSK	108	0	24.05	24.15	24.12	24.8
40	PI/2 BPSK	108	54	24.61	24.68	24.63	25.3
40	PI/2 BPSK	108	108	24.10	24.12	24.06	24.8
40	PI/2 BPSK	216	0	23.97	24.06	23.96	
40	QPSK	1	1	24.51	24.55	24.47	25.3
40	QPSK	1	108	24.70	24.70	24.70	
40	QPSK	1	214	24.47	24.55	24.46	
40	QPSK	108	0	23.62	23.66	23.62	24.3
40	QPSK	108	54	24.71	24.71	24.65	25.3
40	QPSK	108	108	23.59	23.65	23.59	24.3
40	QPSK	216	0	23.56	23.59	23.57	
40	16QAM	1	1	23.44	23.48	23.39	24.3
40	64QAM	1	1	22.00	22.03	21.95	22.8
40	256QAM	1	1	19.58	19.67	19.62	20.8
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.41	24.44	24.43	25.3
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.38	24.40	24.41	25.3
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.38	24.40	24.39	25.3
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.34	24.42	24.40	25.3
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.37	24.44	24.35	25.3
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.35	24.36	24.36	25.3



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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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	17.66	17.74	17.66	18.1
40	PI/2 BPSK	1	108	17.84	17.85	17.78	
40	PI/2 BPSK	1	214	17.43	17.48	17.38	
40	PI/2 BPSK	108	0	17.67	17.76	17.67	18.1
40	PI/2 BPSK	108	54	17.66	17.75	17.68	18.1
40	PI/2 BPSK	108	108	17.56	17.62	17.53	18.1
40	PI/2 BPSK	216	0	17.60	17.64	17.58	
40	QPSK	1	1	17.64	17.70	17.68	18.1
40	QPSK	1	108	17.67	17.77	17.72	
40	QPSK	1	214	17.44	17.47	17.45	
40	QPSK	108	0	17.68	17.70	17.64	18.1
40	QPSK	108	54	17.68	17.73	17.73	18.1
40	QPSK	108	108	17.51	17.59	17.56	18.1
40	QPSK	216	0	17.58	17.62	17.59	
40	16QAM	1	1	17.57	17.66	17.62	18.1
40	64QAM	1	1	17.66	17.67	17.57	18.1
40	256QAM	1	1	17.53	17.56	17.46	18.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	17.63	17.66	17.58	18.1
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	17.58	17.64	17.64	18.1
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	17.65	17.71	17.60	18.1
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	17.57	17.67	17.66	18.1
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	17.65	17.65	17.56	18.1
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	17.66	17.70	17.63	18.1



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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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	19.64	19.70	19.69	21.0
40	PI/2 BPSK	1	108	19.82	19.86	19.80	
40	PI/2 BPSK	1	214	19.67	19.70	19.68	
40	PI/2 BPSK	108	0	19.66	19.74	19.72	21.0
40	PI/2 BPSK	108	54	19.67	19.72	19.70	21.0
40	PI/2 BPSK	108	108	19.62	19.65	19.61	21.0
40	PI/2 BPSK	216	0	19.60	19.65	19.63	
40	QPSK	1	1	19.62	19.68	19.60	21.0
40	QPSK	1	108	19.75	19.84	19.74	
40	QPSK	1	214	19.63	19.65	19.64	
40	QPSK	108	0	19.69	19.69	19.63	21.0
40	QPSK	108	54	19.62	19.68	19.60	21.0
40	QPSK	108	108	19.63	19.61	19.62	21.0
40	QPSK	216	0	19.71	19.72	19.68	
40	16QAM	1	1	19.61	19.71	19.61	21.0
40	64QAM	1	1	19.67	19.72	19.68	21.0
40	256QAM	1	1	19.74	19.84	19.75	20.2
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	19.73	19.79	19.79	21.0
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	19.79	19.77	19.73	21.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	19.75	19.82	19.75	21.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	19.82	19.79	19.73	21.0
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	19.74	19.82	19.78	21.0
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	19.80	19.78	19.75	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				346000	349000	352000	20.3
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	19.64	19.70	19.69	20.3
40	PI/2 BPSK	1	108	19.82	19.86	19.80	
40	PI/2 BPSK	1	214	19.67	19.70	19.68	
40	PI/2 BPSK	108	0	19.66	19.74	19.72	20.3
40	PI/2 BPSK	108	54	19.67	19.72	19.70	20.3
40	PI/2 BPSK	108	108	19.62	19.65	19.61	20.3
40	PI/2 BPSK	216	0	19.60	19.65	19.63	
40	QPSK	1	1	19.62	19.68	19.60	20.3
40	QPSK	1	108	19.75	19.84	19.74	
40	QPSK	1	214	19.63	19.65	19.64	
40	QPSK	108	0	19.69	19.69	19.63	20.3
40	QPSK	108	54	19.62	19.68	19.60	20.3
40	QPSK	108	108	19.63	19.61	19.62	20.3
40	QPSK	216	0	19.71	19.72	19.68	
40	16QAM	1	1	19.61	19.71	19.61	20.3
40	64QAM	1	1	19.67	19.72	19.68	20.3
40	256QAM	1	1	19.74	19.84	19.75	20.2
Channel				345000	349000	353000	20.3
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	19.73	19.79	19.79	20.3
Channel				344500	349000	353500	20.3
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	19.79	19.77	19.73	20.3
Channel				344000	349000	354000	20.3
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	19.75	19.82	19.75	20.3
Channel				343500	349000	354500	20.3
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	19.82	19.79	19.73	20.3
Channel				343000	349000	355000	20.3
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	19.74	19.82	19.78	20.3
Channel				342500	349000	355500	20.3
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	19.80	19.78	19.75	20.3



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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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	19.31	19.35	19.32	20.1
40	PI/2 BPSK	1	108	19.39	19.40	19.39	
40	PI/2 BPSK	1	214	19.18	19.26	19.13	
40	PI/2 BPSK	108	0	19.39	19.39	19.31	20.1
40	PI/2 BPSK	108	54	19.39	19.32	19.39	20.1
40	PI/2 BPSK	108	108	19.38	19.35	19.35	20.1
40	PI/2 BPSK	216	0	19.36	19.39	19.37	
40	QPSK	1	1	19.39	19.34	19.31	20.1
40	QPSK	1	108	19.33	19.39	19.38	
40	QPSK	1	214	19.19	19.29	19.12	
40	QPSK	108	0	19.38	19.39	19.18	20.1
40	QPSK	108	54	19.39	19.33	19.39	20.1
40	QPSK	108	108	19.31	19.33	19.36	20.1
40	QPSK	216	0	19.35	19.35	19.37	
40	16QAM	1	1	19.39	19.35	19.35	20.1
40	64QAM	1	1	19.38	19.34	19.33	20.1
40	256QAM	1	1	19.36	19.38	19.26	20.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	19.30	19.34	19.20	20.1
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	19.28	19.32	19.19	20.1
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	19.32	19.33	19.21	20.1
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	19.31	19.31	19.19	20.1
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	19.27	19.30	19.17	20.1
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	19.31	19.34	19.20	20.1



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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				346000	349000	352000	19.4
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	19.31	19.35	19.32	19.4
40	PI/2 BPSK	1	108	19.39	19.40	19.39	
40	PI/2 BPSK	1	214	19.18	19.26	19.13	
40	PI/2 BPSK	108	0	19.39	19.39	19.31	19.4
40	PI/2 BPSK	108	54	19.39	19.32	19.39	19.4
40	PI/2 BPSK	108	108	19.38	19.35	19.35	19.4
40	PI/2 BPSK	216	0	19.36	19.39	19.37	
40	QPSK	1	1	19.39	19.34	19.31	19.4
40	QPSK	1	108	19.33	19.39	19.38	
40	QPSK	1	214	19.19	19.29	19.12	
40	QPSK	108	0	19.38	19.39	19.18	19.4
40	QPSK	108	54	19.39	19.33	19.39	19.4
40	QPSK	108	108	19.31	19.33	19.36	19.4
40	QPSK	216	0	19.35	19.35	19.37	
40	16QAM	1	1	19.39	19.35	19.35	19.4
40	64QAM	1	1	19.38	19.34	19.33	19.4
40	256QAM	1	1	19.36	19.38	19.26	19.4
Channel				345000	349000	353000	19.4
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	19.30	19.34	19.20	19.4
Channel				344500	349000	353500	19.4
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	19.28	19.32	19.19	19.4
Channel				344000	349000	354000	19.4
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	19.32	19.33	19.21	19.4
Channel				343500	349000	354500	19.4
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	19.31	19.31	19.19	19.4
Channel				343000	349000	355000	19.4
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	19.27	19.30	19.17	19.4
Channel				342500	349000	355500	19.4
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	19.31	19.34	19.20	19.4



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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				346000	349000	352000	22.7
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.17	22.23	22.15	22.7
40	PI/2 BPSK	1	108	22.25	22.27	22.17	
40	PI/2 BPSK	1	214	22.04	21.95	22.11	22.7
40	PI/2 BPSK	108	0	22.21	22.23	22.19	
40	PI/2 BPSK	108	54	22.20	22.15	22.18	22.7
40	PI/2 BPSK	108	108	22.14	22.10	22.13	
40	PI/2 BPSK	216	0	22.19	22.08	22.15	22.7
40	QPSK	1	1	22.16	22.21	22.13	
40	QPSK	1	108	22.24	22.25	22.16	22.7
40	QPSK	1	214	22.01	21.93	22.08	
40	QPSK	108	0	22.15	22.20	22.13	22.7
40	QPSK	108	54	22.16	22.16	22.17	
40	QPSK	108	108	22.16	22.11	22.14	22.7
40	QPSK	216	0	22.17	22.10	22.16	
40	16QAM	1	1	22.16	22.17	22.16	22.7
40	64QAM	1	1	22.16	22.14	22.17	
40	256QAM	1	1	20.41	20.49	20.39	20.7
Channel				345000	349000	353000	22.7
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	22.14	22.18	22.11	22.7
Channel				344500	349000	353500	22.7
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	22.16	22.19	22.10	22.7
Channel				344000	349000	354000	22.7
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	22.13	22.20	22.13	22.7
Channel				343500	349000	354500	22.7
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.10	22.15	22.08	22.7
Channel				343000	349000	355000	22.7
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	22.16	22.21	22.14	22.7
Channel				342500	349000	355500	22.7
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	22.15	22.20	22.10	22.7



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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				346000	349000	352000	24.6
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.18	23.20	23.17	24.6
40	PI/2 BPSK	1	108	23.17	23.18	23.15	
40	PI/2 BPSK	1	214	22.96	23.02	23.01	24.6
40	PI/2 BPSK	108	0	23.15	23.18	23.09	
40	PI/2 BPSK	108	54	23.04	23.04	23.01	24.6
40	PI/2 BPSK	108	108	22.86	22.96	22.89	
40	PI/2 BPSK	216	0	22.94	22.95	22.93	24.6
40	QPSK	1	1	23.16	23.17	23.10	
40	QPSK	1	108	23.13	23.16	23.10	24.6
40	QPSK	1	214	22.88	22.97	22.91	
40	QPSK	108	0	23.09	23.18	23.08	24.6
40	QPSK	108	54	23.02	23.02	22.96	
40	QPSK	108	108	22.89	22.90	22.90	24.6
40	QPSK	216	0	22.83	22.92	22.82	
40	16QAM	1	1	23.11	23.16	23.12	24.6
40	64QAM	1	1	22.63	22.68	22.60	
40	256QAM	1	1	19.02	19.05	19.01	21.0
Channel				345000	349000	353000	24.6
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.14	23.12	23.08	24.6
Channel				344500	349000	353500	
Frequency (MHz)				1722.5	1745	1767.5	24.6
25	PI/2 BPSK	1	1	23.11	23.19	23.11	
Channel				344000	349000	354000	24.6
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.17	23.16	23.08	24.6
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	24.6
15	PI/2 BPSK	1	1	23.15	23.14	23.10	
Channel				343000	349000	355000	24.6
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.08	23.13	23.13	24.6
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	24.6
5	PI/2 BPSK	1	1	23.18	23.18	23.12	



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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	23.9
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.18	23.20	23.17	23.9
40	PI/2 BPSK	1	108	23.17	23.18	23.15	
40	PI/2 BPSK	1	214	22.96	23.02	23.01	23.9
40	PI/2 BPSK	108	0	23.15	23.18	23.09	
40	PI/2 BPSK	108	54	23.04	23.04	23.01	23.9
40	PI/2 BPSK	108	108	22.86	22.96	22.89	
40	PI/2 BPSK	216	0	22.94	22.95	22.93	23.9
40	QPSK	1	1	23.16	23.17	23.10	
40	QPSK	1	108	23.13	23.16	23.10	23.9
40	QPSK	1	214	22.88	22.97	22.91	
40	QPSK	108	0	23.09	23.18	23.08	23.9
40	QPSK	108	54	23.02	23.02	22.96	
40	QPSK	108	108	22.89	22.90	22.90	23.9
40	QPSK	216	0	22.83	22.92	22.82	
40	16QAM	1	1	23.11	23.16	23.12	23.9
40	64QAM	1	1	22.63	22.68	22.60	
40	256QAM	1	1	19.02	19.05	19.01	20.3
Channel				345000	349000	353000	23.9
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.14	23.12	23.08	23.9
Channel				344500	349000	353500	
Frequency (MHz)				1722.5	1745	1767.5	23.9
25	PI/2 BPSK	1	1	23.11	23.19	23.11	
Channel				344000	349000	354000	23.9
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.17	23.16	23.08	23.9
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	23.9
15	PI/2 BPSK	1	1	23.15	23.14	23.10	
Channel				343000	349000	355000	23.9
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.08	23.13	23.13	23.9
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	23.9
5	PI/2 BPSK	1	1	23.18	23.18	23.12	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.79	24.59	24.61	25.5
40	PI/2 BPSK	1	108	24.78	24.58	24.66	
40	PI/2 BPSK	1	214	24.51	24.32	24.28	
40	PI/2 BPSK	108	0	24.22	24.09	24.10	25.0
40	PI/2 BPSK	108	54	24.70	24.70	24.58	25.5
40	PI/2 BPSK	108	108	24.08	23.95	24.01	25.0
40	PI/2 BPSK	216	0	24.13	23.98	24.02	
40	QPSK	1	1	24.76	24.58	24.67	25.5
40	QPSK	1	108	24.78	24.69	24.66	
40	QPSK	1	214	24.39	24.26	24.33	
40	QPSK	108	0	23.74	23.62	23.61	24.5
40	QPSK	108	54	24.71	24.61	24.60	25.5
40	QPSK	108	108	23.59	23.46	23.50	24.5
40	QPSK	216	0	23.64	23.51	23.53	
40	16QAM	1	1	23.77	23.68	23.60	24.5
40	64QAM	1	1	22.35	22.08	22.07	23.0
40	256QAM	1	1	20.27	20.18	20.09	21.0
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.73	24.68	24.70	25.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.67	24.64	24.63	25.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.74	24.65	24.66	25.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.74	24.71	24.73	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.76	24.69	24.72	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.75	24.67	24.68	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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	20.55	20.56	20.49	21.5
40	PI/2 BPSK	1	108	20.49	20.55	20.48	
40	PI/2 BPSK	1	214	20.22	20.31	20.26	
40	PI/2 BPSK	108	0	20.46	20.55	20.55	21.5
40	PI/2 BPSK	108	54	20.47	20.54	20.54	21.5
40	PI/2 BPSK	108	108	20.42	20.44	20.36	21.5
40	PI/2 BPSK	216	0	20.38	20.45	20.43	
40	QPSK	1	1	20.46	20.55	20.53	21.5
40	QPSK	1	108	20.38	20.46	20.41	
40	QPSK	1	214	20.25	20.29	20.25	
40	QPSK	108	0	20.49	20.49	20.39	21.5
40	QPSK	108	54	20.45	20.49	20.39	21.5
40	QPSK	108	108	20.33	20.36	20.29	21.5
40	QPSK	216	0	20.44	20.45	20.36	
40	16QAM	1	1	20.41	20.48	20.38	21.5
40	64QAM	1	1	20.39	20.49	20.47	21.5
40	256QAM	1	1	20.15	20.20	20.11	21.0
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	20.40	20.45	20.47	21.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	20.42	20.49	20.38	21.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	20.42	20.54	20.39	21.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	20.41	20.53	20.40	21.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	20.43	20.50	20.45	21.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	20.39	20.50	20.43	21.5





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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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	20.55	20.56	20.49	22.2
40	PI/2 BPSK	1	108	20.49	20.55	20.48	
40	PI/2 BPSK	1	214	20.22	20.31	20.26	
40	PI/2 BPSK	108	0	20.46	20.55	20.55	22.2
40	PI/2 BPSK	108	54	20.47	20.54	20.54	22.2
40	PI/2 BPSK	108	108	20.42	20.44	20.36	22.2
40	PI/2 BPSK	216	0	20.38	20.45	20.43	
40	QPSK	1	1	20.46	20.55	20.53	22.2
40	QPSK	1	108	20.38	20.46	20.41	
40	QPSK	1	214	20.25	20.29	20.25	
40	QPSK	108	0	20.49	20.49	20.39	22.2
40	QPSK	108	54	20.45	20.49	20.39	22.2
40	QPSK	108	108	20.33	20.36	20.29	22.2
40	QPSK	216	0	20.44	20.45	20.36	
40	16QAM	1	1	20.41	20.48	20.38	22.2
40	64QAM	1	1	20.39	20.49	20.47	22.2
40	256QAM	1	1	20.15	20.20	20.11	21.0
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	20.40	20.45	20.47	22.2
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	20.42	20.49	20.38	22.2
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	20.42	20.54	20.39	22.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	20.41	20.53	20.40	22.2
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	20.43	20.50	20.45	22.2
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	20.39	20.50	20.43	22.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	21.5
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	20.55	20.56	20.49	
40	PI/2 BPSK	1	108	20.49	20.55	20.48	21.5
40	PI/2 BPSK	1	214	20.22	20.31	20.26	
40	PI/2 BPSK	108	0	20.46	20.55	20.55	21.5
40	PI/2 BPSK	108	54	20.47	20.54	20.54	21.5
40	PI/2 BPSK	108	108	20.42	20.44	20.36	21.5
40	PI/2 BPSK	216	0	20.38	20.45	20.43	
40	QPSK	1	1	20.46	20.55	20.53	21.5
40	QPSK	1	108	20.38	20.46	20.41	
40	QPSK	1	214	20.25	20.29	20.25	
40	QPSK	108	0	20.49	20.49	20.39	21.5
40	QPSK	108	54	20.45	20.49	20.39	21.5
40	QPSK	108	108	20.33	20.36	20.29	21.5
40	QPSK	216	0	20.44	20.45	20.36	
40	16QAM	1	1	20.41	20.48	20.38	21.5
40	64QAM	1	1	20.39	20.49	20.47	21.5
40	256QAM	1	1	20.15	20.20	20.11	21.0
Channel				345000	349000	353000	21.5
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	20.40	20.45	20.47	21.5
Channel				344500	349000	353500	21.5
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	20.42	20.49	20.38	21.5
Channel				344000	349000	354000	21.5
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	20.42	20.54	20.39	21.5
Channel				343500	349000	354500	21.5
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	20.41	20.53	20.40	21.5
Channel				343000	349000	355000	21.5
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	20.43	20.50	20.45	21.5
Channel				342500	349000	355500	21.5
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	20.39	20.50	20.43	21.5



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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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	18.74	18.79	18.73	19.8
40	PI/2 BPSK	1	108	18.78	18.78	18.76	
40	PI/2 BPSK	1	214	18.47	18.48	18.40	
40	PI/2 BPSK	108	0	18.70	18.78	18.72	19.8
40	PI/2 BPSK	108	54	18.69	18.70	18.63	19.8
40	PI/2 BPSK	108	108	18.56	18.60	18.51	19.8
40	PI/2 BPSK	216	0	18.62	18.65	18.65	
40	QPSK	1	1	18.61	18.68	18.60	19.8
40	QPSK	1	108	18.65	18.69	18.66	
40	QPSK	1	214	18.67	18.69	18.60	
40	QPSK	108	0	18.65	18.68	18.63	19.8
40	QPSK	108	54	18.53	18.63	18.59	19.8
40	QPSK	108	108	18.47	18.57	18.51	19.8
40	QPSK	216	0	18.54	18.60	18.59	
40	16QAM	1	1	18.71	18.78	18.77	19.8
40	64QAM	1	1	18.73	18.74	18.73	19.8
40	256QAM	1	1	18.18	18.28	18.23	19.8
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	18.53	18.66	18.50	19.8
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	18.52	18.61	18.57	19.8
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	18.57	18.68	18.60	19.8
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	18.57	18.62	18.52	19.8
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	18.59	18.67	18.55	19.8
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	18.59	18.63	18.53	19.8



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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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	18.74	18.79	18.73	19.1
40	PI/2 BPSK	1	108	18.78	18.78	18.76	
40	PI/2 BPSK	1	214	18.47	18.48	18.40	
40	PI/2 BPSK	108	0	18.70	18.78	18.72	19.1
40	PI/2 BPSK	108	54	18.69	18.70	18.63	19.1
40	PI/2 BPSK	108	108	18.56	18.60	18.51	19.1
40	PI/2 BPSK	216	0	18.62	18.65	18.65	
40	QPSK	1	1	18.61	18.68	18.60	19.1
40	QPSK	1	108	18.65	18.69	18.66	
40	QPSK	1	214	18.67	18.69	18.60	
40	QPSK	108	0	18.65	18.68	18.63	19.1
40	QPSK	108	54	18.53	18.63	18.59	19.1
40	QPSK	108	108	18.47	18.57	18.51	19.1
40	QPSK	216	0	18.54	18.60	18.59	
40	16QAM	1	1	18.71	18.78	18.77	19.1
40	64QAM	1	1	18.73	18.74	18.73	19.1
40	256QAM	1	1	18.18	18.28	18.23	19.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	18.53	18.66	18.50	19.1
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	18.52	18.61	18.57	19.1
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	18.57	18.68	18.60	19.1
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	18.57	18.62	18.52	19.1
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	18.59	18.67	18.55	19.1
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	18.59	18.63	18.53	19.1



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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				346000	349000	352000	21.0
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	20.74	20.79	20.73	21.0
40	PI/2 BPSK	1	108	20.78	20.78	20.76	
40	PI/2 BPSK	1	214	20.47	20.48	20.40	21.0
40	PI/2 BPSK	108	0	20.70	20.78	20.72	
40	PI/2 BPSK	108	54	20.69	20.70	20.63	21.0
40	PI/2 BPSK	108	108	20.56	20.60	20.51	
40	PI/2 BPSK	216	0	20.62	20.65	20.65	21.0
40	QPSK	1	1	20.61	20.68	20.60	
40	QPSK	1	108	20.65	20.69	20.66	21.0
40	QPSK	1	214	20.67	20.69	20.60	
40	QPSK	108	0	20.65	20.68	20.63	21.0
40	QPSK	108	54	20.53	20.63	20.59	
40	QPSK	108	108	20.47	20.57	20.51	21.0
40	QPSK	216	0	20.54	20.60	20.59	
40	16QAM	1	1	20.71	20.78	20.77	21.0
40	64QAM	1	1	20.73	20.74	20.73	
40	256QAM	1	1	19.18	19.28	19.23	20.8
Channel				345000	349000	353000	21.0
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	20.53	20.66	20.50	21.0
Channel				344500	349000	353500	21.0
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	20.52	20.61	20.57	21.0
Channel				344000	349000	354000	21.0
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	20.57	20.68	20.60	21.0
Channel				343500	349000	354500	21.0
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	20.57	20.62	20.52	21.0
Channel				343000	349000	355000	21.0
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	20.59	20.67	20.55	21.0
Channel				342500	349000	355500	21.0
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	20.59	20.63	20.53	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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.27	22.33	22.32	23.8
40	PI/2 BPSK	1	108	22.35	22.35	22.30	
40	PI/2 BPSK	1	214	22.17	22.19	22.15	
40	PI/2 BPSK	108	0	22.31	22.33	22.27	23.8
40	PI/2 BPSK	108	54	22.26	22.36	22.35	23.8
40	PI/2 BPSK	108	108	22.25	22.32	22.28	23.8
40	PI/2 BPSK	216	0	22.24	22.34	22.30	
40	QPSK	1	1	22.27	22.31	22.31	23.8
40	QPSK	1	108	22.20	22.29	22.22	
40	QPSK	1	214	22.27	22.29	22.29	
40	QPSK	108	0	22.29	22.32	22.31	23.8
40	QPSK	108	54	22.25	22.26	22.20	23.8
40	QPSK	108	108	22.17	22.23	22.14	23.8
40	QPSK	216	0	22.27	22.30	22.28	
40	16QAM	1	1	22.16	22.20	22.18	23.8
40	64QAM	1	1	21.50	21.55	21.50	22.8
40	256QAM	1	1	19.52	19.52	19.43	20.8
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	22.21	22.29	22.30	23.8
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	22.20	22.26	22.31	23.8
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	22.22	22.28	22.31	23.8
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.26	22.28	22.26	23.8
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	22.17	22.25	22.30	23.8
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	22.19	22.30	22.23	23.8



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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				346000	349000	352000	23.1
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.27	22.33	22.32	23.1
40	PI/2 BPSK	1	108	22.35	22.35	22.30	
40	PI/2 BPSK	1	214	22.17	22.19	22.15	23.1
40	PI/2 BPSK	108	0	22.31	22.33	22.27	
40	PI/2 BPSK	108	54	22.26	22.36	22.35	23.1
40	PI/2 BPSK	108	108	22.25	22.32	22.28	
40	PI/2 BPSK	216	0	22.24	22.34	22.30	23.1
40	QPSK	1	1	22.27	22.31	22.31	
40	QPSK	1	108	22.20	22.29	22.22	23.1
40	QPSK	1	214	22.27	22.29	22.29	
40	QPSK	108	0	22.29	22.32	22.31	23.1
40	QPSK	108	54	22.25	22.26	22.20	
40	QPSK	108	108	22.17	22.23	22.14	23.1
40	QPSK	216	0	22.27	22.30	22.28	
40	16QAM	1	1	22.16	22.20	22.18	23.1
40	64QAM	1	1	21.50	21.55	21.50	
40	256QAM	1	1	19.52	19.52	19.43	20.8
Channel				345000	349000	353000	23.1
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	22.21	22.29	22.30	23.1
Channel				344500	349000	353500	
Frequency (MHz)				1722.5	1745	1767.5	23.1
25	PI/2 BPSK	1	1	22.20	22.26	22.31	
Channel				344000	349000	354000	23.1
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	22.22	22.28	22.31	23.1
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	23.1
15	PI/2 BPSK	1	1	22.26	22.28	22.26	
Channel				343000	349000	355000	23.1
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	22.17	22.25	22.30	23.1
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	23.1
5	PI/2 BPSK	1	1	22.19	22.30	22.23	



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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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		24.52		25.3
15	PI/2 BPSK	1	40		24.50		
15	PI/2 BPSK	1	77		24.76		
15	PI/2 BPSK	36	0		24.10		24.8
15	PI/2 BPSK	36	22		24.65		25.3
15	PI/2 BPSK	36	43		24.22		24.8
15	PI/2 BPSK	75	0		24.19		
15	QPSK	1	1		24.50		25.3
15	QPSK	1	40		24.58		
15	QPSK	1	77		24.68		
15	QPSK	36	0		23.61		24.3
15	QPSK	36	22		24.67		25.3
15	QPSK	36	43		23.71		24.3
15	QPSK	75	0		23.68		
15	16QAM	1	1		23.68		24.3
15	64QAM	1	1		22.23		22.8
15	256QAM	1	1		20.01		20.8
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	24.52	24.50	24.51	25.3
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	24.56	24.51	24.46	25.3

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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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		18.41		19.0
15	PI/2 BPSK	1	40		18.35		
15	PI/2 BPSK	1	77		18.40		
15	PI/2 BPSK	36	0		18.39		19.0
15	PI/2 BPSK	36	22		18.40		19.0
15	PI/2 BPSK	36	43		18.38		19.0
15	PI/2 BPSK	75	0		18.39		
15	QPSK	1	1		18.33		19.0
15	QPSK	1	40		18.33		
15	QPSK	1	77		18.34		
15	QPSK	36	0		18.35		19.0
15	QPSK	36	22		18.32		19.0
15	QPSK	36	43		18.29		19.0
15	QPSK	75	0		18.33		
15	16QAM	1	1		18.35		19.0
15	64QAM	1	1		18.27		19.0
15	256QAM	1	1		18.36		19.0
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	18.38	18.35	18.36	19.0
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	18.37	18.34	18.30	19.0





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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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		18.41		19.9
15	PI/2 BPSK	1	40		18.35		
15	PI/2 BPSK	1	77		18.40		
15	PI/2 BPSK	36	0		18.39		19.9
15	PI/2 BPSK	36	22		18.40		19.9
15	PI/2 BPSK	36	43		18.38		19.9
15	PI/2 BPSK	75	0		18.39		
15	QPSK	1	1		18.33		19.9
15	QPSK	1	40		18.33		
15	QPSK	1	77		18.34		
15	QPSK	36	0		18.35		19.9
15	QPSK	36	22		18.32		19.9
15	QPSK	36	43		18.29		19.9
15	QPSK	75	0		18.33		
15	16QAM	1	1		18.35		19.9
15	64QAM	1	1		18.27		19.9
15	256QAM	1	1		18.36		19.9
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	18.38	18.35	18.36	19.9
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	18.37	18.34	18.30	19.9

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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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		18.41		19.2
15	PI/2 BPSK	1	40		18.35		
15	PI/2 BPSK	1	77		18.40		
15	PI/2 BPSK	36	0		18.39		19.2
15	PI/2 BPSK	36	22		18.40		19.2
15	PI/2 BPSK	36	43		18.38		19.2
15	PI/2 BPSK	75	0		18.39		
15	QPSK	1	1		18.33		19.2
15	QPSK	1	40		18.33		
15	QPSK	1	77		18.34		
15	QPSK	36	0		18.35		19.2
15	QPSK	36	22		18.32		19.2
15	QPSK	36	43		18.29		19.2
15	QPSK	75	0		18.33		
15	16QAM	1	1		18.35		19.2
15	64QAM	1	1		18.27		19.2
15	256QAM	1	1		18.36		19.2
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	18.38	18.35	18.36	19.2
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	18.37	18.34	18.30	19.2



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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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		24.64		25.5
15	PI/2 BPSK	1	40		24.49		
15	PI/2 BPSK	1	77		24.63		
15	PI/2 BPSK	36	0		24.08		25.0
15	PI/2 BPSK	36	22		24.59		25.5
15	PI/2 BPSK	36	43		24.10		25.0
15	PI/2 BPSK	75	0		24.13		
15	QPSK	1	1		24.58		25.5
15	QPSK	1	40		24.54		
15	QPSK	1	77		24.58		
15	QPSK	36	0		23.57		24.5
15	QPSK	36	22		24.59		25.5
15	QPSK	36	43		23.58		24.5
15	QPSK	75	0		23.61		
15	16QAM	1	1		23.58		24.5
15	64QAM	1	1		22.01		23.0
15	256QAM	1	1		20.05		21.0
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	24.57	24.61	24.58	25.5
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	24.56	24.57	24.55	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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		20.85		21.8
15	PI/2 BPSK	1	40		20.77		
15	PI/2 BPSK	1	77		20.82		
15	PI/2 BPSK	36	0		20.87		21.8
15	PI/2 BPSK	36	22		20.84		21.8
15	PI/2 BPSK	36	43		20.84		21.8
15	PI/2 BPSK	75	0		20.86		
15	QPSK	1	1		20.75		21.8
15	QPSK	1	40		20.76		
15	QPSK	1	77		20.77		
15	QPSK	36	0		20.77		21.8
15	QPSK	36	22		20.83		21.8
15	QPSK	36	43		20.76		21.8
15	QPSK	75	0		20.81		
15	16QAM	1	1		20.77		21.8
15	64QAM	1	1		20.85		21.8
15	256QAM	1	1		20.05		21.0
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	20.71	20.72	20.70	21.8
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	20.68	20.74	20.68	21.8



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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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		20.85		22.5
15	PI/2 BPSK	1	40		20.77		
15	PI/2 BPSK	1	77		20.82		
15	PI/2 BPSK	36	0		20.87		22.5
15	PI/2 BPSK	36	22		20.84		22.5
15	PI/2 BPSK	36	43		20.84		22.5
15	PI/2 BPSK	75	0		20.86		
15	QPSK	1	1		20.75		22.5
15	QPSK	1	40		20.76		
15	QPSK	1	77		20.77		
15	QPSK	36	0		20.77		22.5
15	QPSK	36	22		20.83		22.5
15	QPSK	36	43		20.76		22.5
15	QPSK	75	0		20.81		
15	16QAM	1	1		20.77		22.5
15	64QAM	1	1		20.85		22.5
15	256QAM	1	1		20.05		21.0
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	20.71	20.72	20.70	22.5
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	20.68	20.74	20.68	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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		20.85		21.8
15	PI/2 BPSK	1	40		20.77		
15	PI/2 BPSK	1	77		20.82		
15	PI/2 BPSK	36	0		20.87		21.8
15	PI/2 BPSK	36	22		20.84		21.8
15	PI/2 BPSK	36	43		20.84		21.8
15	PI/2 BPSK	75	0		20.86		
15	QPSK	1	1		20.75		21.8
15	QPSK	1	40		20.76		
15	QPSK	1	77		20.77		
15	QPSK	36	0		20.77		21.8
15	QPSK	36	22		20.83		21.8
15	QPSK	36	43		20.76		21.8
15	QPSK	75	0		20.81		
15	16QAM	1	1		20.77		21.8
15	64QAM	1	1		20.85		21.8
15	256QAM	1	1		20.05		21.0
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	20.71	20.72	20.70	21.8
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	20.68	20.74	20.68	21.8



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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				134600	136100	137600	Tune-up limit (dBm)
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.53	24.54	24.38	25.5
20	PI/2 BPSK	1	53	24.50	24.50	24.50	
20	PI/2 BPSK	1	104	24.47	24.51	24.50	
20	PI/2 BPSK	50	0	23.92	23.85	23.96	25.0
20	PI/2 BPSK	50	28	24.43	24.50	24.52	25.5
20	PI/2 BPSK	50	56	23.95	23.99	24.04	25.0
20	PI/2 BPSK	100	0	23.94	23.92	24.01	
20	QPSK	1	1	24.42	24.35	24.40	25.5
20	QPSK	1	53	24.48	24.52	24.50	
20	QPSK	1	104	24.47	24.51	24.51	
20	QPSK	50	0	23.41	23.40	23.46	24.5
20	QPSK	50	28	24.44	24.47	24.52	25.5
20	QPSK	50	56	23.46	23.52	23.53	24.5
20	QPSK	100	0	23.45	23.44	23.50	
20	16QAM	1	1	23.39	23.40	23.41	24.5
20	64QAM	1	1	21.90	21.86	21.91	23.0
20	256QAM	1	1	20.01	19.90	19.88	21.0
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.35	24.36	24.37	25.5
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.33	24.37	24.36	25.5
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.43	24.42	24.45	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				134600	136100	137600	Tune-up limit (dBm)
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.65	24.66	24.62	25.1
20	PI/2 BPSK	1	53	24.95	24.96	24.88	
20	PI/2 BPSK	1	104	24.85	24.86	24.84	
20	PI/2 BPSK	50	0	24.19	24.24	24.23	24.6
20	PI/2 BPSK	50	28	24.77	24.82	24.77	25.1
20	PI/2 BPSK	50	56	24.27	24.36	24.29	24.6
20	PI/2 BPSK	100	0	24.21	24.27	24.23	
20	QPSK	1	1	24.77	24.79	24.74	25.1
20	QPSK	1	53	24.86	24.89	24.89	
20	QPSK	1	104	24.84	24.90	24.85	
20	QPSK	50	0	23.65	23.74	23.67	24.1
20	QPSK	50	28	24.79	24.79	24.71	25.1
20	QPSK	50	56	23.83	23.86	23.82	24.1
20	QPSK	100	0	23.72	23.81	23.71	
20	16QAM	1	1	23.72	23.81	23.71	24.1
20	64QAM	1	1	22.28	22.31	22.29	22.6
20	256QAM	1	1	20.06	20.12	20.12	20.6
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.57	24.58	24.58	25.1
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.60	24.62	24.53	25.1
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.64	24.61	24.54	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				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	22.48	22.53	22.47	23.5
20	PI/2 BPSK	1	53	22.69	22.75	22.63	
20	PI/2 BPSK	1	104	22.62	22.64	22.59	
20	PI/2 BPSK	50	0	22.51	22.64	22.57	23.5
20	PI/2 BPSK	50	28	22.55	22.63	22.57	23.5
20	PI/2 BPSK	50	56	22.58	22.63	22.63	23.5
20	PI/2 BPSK	100	0	22.62	22.63	22.57	
20	QPSK	1	1	22.48	22.51	22.50	23.5
20	QPSK	1	53	22.61	22.63	22.55	
20	QPSK	1	104	22.56	22.59	22.54	
20	QPSK	50	0	22.53	22.58	22.53	23.5
20	QPSK	50	28	22.57	22.58	22.52	23.5
20	QPSK	50	56	22.54	22.56	22.53	23.5
20	QPSK	100	0	22.62	22.63	22.63	
20	16QAM	1	1	22.48	22.51	22.41	23.5
20	64QAM	1	1	21.92	21.96	21.90	22.6
20	256QAM	1	1	19.87	19.92	19.88	20.6
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	22.46	22.53	22.46	23.5
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	22.48	22.52	22.45	23.5
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	22.46	22.52	22.49	23.5



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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				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	22.48	22.53	22.47	22.8
20	PI/2 BPSK	1	53	22.69	22.75	22.63	
20	PI/2 BPSK	1	104	22.62	22.64	22.59	
20	PI/2 BPSK	50	0	22.51	22.64	22.57	22.8
20	PI/2 BPSK	50	28	22.55	22.63	22.57	22.8
20	PI/2 BPSK	50	56	22.58	22.63	22.63	22.8
20	PI/2 BPSK	100	0	22.62	22.63	22.57	
20	QPSK	1	1	22.48	22.51	22.50	22.8
20	QPSK	1	53	22.61	22.63	22.55	
20	QPSK	1	104	22.56	22.59	22.54	
20	QPSK	50	0	22.53	22.58	22.53	22.8
20	QPSK	50	28	22.57	22.58	22.52	22.8
20	QPSK	50	56	22.54	22.56	22.53	22.8
20	QPSK	100	0	22.62	22.63	22.63	
20	16QAM	1	1	22.48	22.51	22.41	22.8
20	64QAM	1	1	21.92	21.96	21.90	22.6
20	256QAM	1	1	19.87	19.92	19.88	20.6
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	22.46	22.53	22.46	22.8
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	22.48	22.52	22.45	22.8
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	22.46	22.52	22.49	22.8



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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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	23.43	23.56	23.38	25.0
20	PI/2 BPSK	1	26	23.42	23.36	23.37	
20	PI/2 BPSK	1	49	23.41	23.37	23.42	
20	PI/2 BPSK	25	0	22.98	22.96	22.93	24.5
20	PI/2 BPSK	25	13	23.47	23.42	23.44	25.0
20	PI/2 BPSK	25	26	22.96	22.91	22.95	24.5
20	PI/2 BPSK	50	0	22.97	22.92	22.94	
20	QPSK	1	1	23.51	23.55	23.41	25.0
20	QPSK	1	26	23.41	23.45	23.38	
20	QPSK	1	49	23.48	23.43	23.41	
20	QPSK	25	0	22.55	22.50	22.43	25.0
20	QPSK	25	13	23.49	23.43	23.41	
20	QPSK	25	26	22.46	22.43	22.43	
20	QPSK	50	0	22.48	22.44	22.42	24.0
20	16QAM	1	1	22.55	22.53	22.46	24.0
20	64QAM	1	1	20.98	20.83	20.87	22.5
20	256QAM	1	1	19.12	19.03	19.04	20.5
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	23.48	23.48	23.40	25.0
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	23.49	23.48	23.41	25.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	17.98	18.13	18.00	18.4
20	PI/2 BPSK	1	26	17.98	18.02	17.99	
20	PI/2 BPSK	1	49	17.90	17.97	17.93	
20	PI/2 BPSK	25	0	18.01	18.04	18.00	18.4
20	PI/2 BPSK	25	13	17.93	18.02	17.95	18.4
20	PI/2 BPSK	25	26	17.96	18.01	17.98	18.4
20	PI/2 BPSK	50	0	17.99	18.02	18.02	
20	QPSK	1	1	18.01	18.04	17.96	18.4
20	QPSK	1	26	17.96	17.98	17.92	
20	QPSK	1	49	17.95	17.98	17.95	
20	QPSK	25	0	17.96	18.01	18.01	18.4
20	QPSK	25	13	17.92	18.00	17.91	
20	QPSK	25	26	17.94	18.01	17.99	
20	QPSK	50	0	17.99	18.02	17.98	18.4
20	16QAM	1	1	17.96	18.04	17.99	18.4
20	64QAM	1	1	17.95	18.00	17.99	18.4
20	256QAM	1	1	17.98	18.04	18.01	18.4
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	18.00	17.99	17.93	18.4
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	18.02	17.92	17.95	18.4





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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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	18.66	18.75	18.73	20.5
20	PI/2 BPSK	1	26	18.60	18.62	18.61	
20	PI/2 BPSK	1	49	18.54	18.59	18.50	
20	PI/2 BPSK	25	0	18.56	18.65	18.58	20.5
20	PI/2 BPSK	25	13	18.58	18.64	18.56	20.5
20	PI/2 BPSK	25	26	18.57	18.63	18.58	20.5
20	PI/2 BPSK	50	0	18.57	18.62	18.54	
20	QPSK	1	1	18.65	18.72	18.64	20.5
20	QPSK	1	26	18.58	18.55	18.55	
20	QPSK	1	49	18.58	18.58	18.59	
20	QPSK	25	0	18.52	18.62	18.60	20.5
20	QPSK	25	13	18.55	18.60	18.52	
20	QPSK	25	26	18.56	18.59	18.52	
20	QPSK	50	0	18.55	18.60	18.54	20.5
20	16QAM	1	1	18.69	18.72	18.70	20.5
20	64QAM	1	1	18.62	18.66	18.56	20.5
20	256QAM	1	1	18.60	18.70	18.63	20.5
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	18.57	18.74	18.66	20.5
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	18.56	18.74	18.68	20.5

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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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	18.66	18.75	18.73	19.8
20	PI/2 BPSK	1	26	18.60	18.62	18.61	
20	PI/2 BPSK	1	49	18.54	18.59	18.50	
20	PI/2 BPSK	25	0	18.56	18.65	18.58	19.8
20	PI/2 BPSK	25	13	18.58	18.64	18.56	19.8
20	PI/2 BPSK	25	26	18.57	18.63	18.58	19.8
20	PI/2 BPSK	50	0	18.57	18.62	18.54	
20	QPSK	1	1	18.65	18.72	18.64	19.8
20	QPSK	1	26	18.58	18.55	18.55	
20	QPSK	1	49	18.58	18.58	18.59	
20	QPSK	25	0	18.52	18.62	18.60	19.8
20	QPSK	25	13	18.55	18.60	18.52	
20	QPSK	25	26	18.56	18.59	18.52	
20	QPSK	50	0	18.55	18.60	18.54	19.8
20	16QAM	1	1	18.69	18.72	18.70	19.8
20	64QAM	1	1	18.62	18.66	18.56	19.8
20	256QAM	1	1	18.60	18.70	18.63	19.8
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	18.57	18.74	18.66	19.8
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	18.56	18.74	18.68	19.8



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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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	13.14	13.22	13.19	14.4
20	PI/2 BPSK	1	26	13.16	13.18	13.12	
20	PI/2 BPSK	1	49	13.05	13.12	13.11	
20	PI/2 BPSK	25	0	13.13	13.19	13.09	14.4
20	PI/2 BPSK	25	13	13.17	13.20	13.14	14.4
20	PI/2 BPSK	25	26	13.14	13.15	13.08	14.4
20	PI/2 BPSK	50	0	13.19	13.20	13.16	
20	QPSK	1	1	13.10	13.16	13.15	14.4
20	QPSK	1	26	13.12	13.18	13.09	
20	QPSK	1	49	13.01	13.11	13.08	
20	QPSK	25	0	13.19	13.20	13.16	14.4
20	QPSK	25	13	13.12	13.20	13.12	
20	QPSK	25	26	13.06	13.15	13.10	
20	QPSK	50	0	13.12	13.20	13.12	14.4
20	16QAM	1	1	13.11	13.21	13.12	14.4
20	64QAM	1	1	13.10	13.14	13.06	14.4
20	256QAM	1	1	13.12	13.17	13.13	14.4
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	13.07	13.21	13.11	14.4
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	13.11	13.14	13.10	14.4

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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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	13.14	13.22	13.19	13.7
20	PI/2 BPSK	1	26	13.16	13.18	13.12	
20	PI/2 BPSK	1	49	13.05	13.12	13.11	
20	PI/2 BPSK	25	0	13.13	13.19	13.09	13.7
20	PI/2 BPSK	25	13	13.17	13.20	13.14	13.7
20	PI/2 BPSK	25	26	13.14	13.15	13.08	13.7
20	PI/2 BPSK	50	0	13.19	13.20	13.16	
20	QPSK	1	1	13.10	13.16	13.15	13.7
20	QPSK	1	26	13.12	13.18	13.09	
20	QPSK	1	49	13.01	13.11	13.08	
20	QPSK	25	0	13.19	13.20	13.16	13.7
20	QPSK	25	13	13.12	13.20	13.12	
20	QPSK	25	26	13.06	13.15	13.10	
20	QPSK	50	0	13.12	13.20	13.12	13.7
20	16QAM	1	1	13.11	13.21	13.12	13.7
20	64QAM	1	1	13.10	13.14	13.06	13.7
20	256QAM	1	1	13.12	13.17	13.13	13.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	13.07	13.21	13.11	13.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	13.11	13.14	13.10	13.7



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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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	18.25	18.29	18.22	19.3
20	PI/2 BPSK	1	26	18.28	18.28	18.19	
20	PI/2 BPSK	1	49	18.20	18.21	18.18	
20	PI/2 BPSK	25	0	18.25	18.28	18.24	19.3
20	PI/2 BPSK	25	13	18.25	18.28	18.25	19.3
20	PI/2 BPSK	25	26	18.18	18.25	18.19	19.3
20	PI/2 BPSK	50	0	18.20	18.28	18.22	
20	QPSK	1	1	18.20	18.28	18.27	19.3
20	QPSK	1	26	18.20	18.27	18.26	
20	QPSK	1	49	18.14	18.20	18.17	
20	QPSK	25	0	18.19	18.28	18.26	19.3
20	QPSK	25	13	18.25	18.28	18.18	
20	QPSK	25	26	18.18	18.25	18.19	
20	QPSK	50	0	18.17	18.27	18.25	19.3
20	16QAM	1	1	18.23	18.24	18.16	19.3
20	64QAM	1	1	18.27	18.27	18.20	19.3
20	256QAM	1	1	18.21	18.28	18.25	19.3
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	18.22	18.24	18.25	19.3
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	18.27	18.24	18.28	19.3

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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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	19.25	19.34	19.33	20.7
20	PI/2 BPSK	1	26	19.25	19.31	19.29	
20	PI/2 BPSK	1	49	19.11	19.21	19.21	
20	PI/2 BPSK	25	0	19.22	19.26	19.16	20.7
20	PI/2 BPSK	25	13	19.26	19.29	19.29	20.7
20	PI/2 BPSK	25	26	19.11	19.21	19.13	20.7
20	PI/2 BPSK	50	0	19.18	19.26	19.26	
20	QPSK	1	1	19.32	19.32	19.25	20.7
20	QPSK	1	26	19.28	19.29	19.24	
20	QPSK	1	49	19.17	19.21	19.11	
20	QPSK	25	0	19.23	19.26	19.22	20.7
20	QPSK	25	13	19.22	19.29	19.23	
20	QPSK	25	26	19.16	19.21	19.18	
20	QPSK	50	0	19.16	19.26	19.23	20.7
20	16QAM	1	1	19.29	19.32	19.28	20.7
20	64QAM	1	1	19.25	19.27	19.20	20.7
20	256QAM	1	1	19.22	19.27	19.26	20.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	19.33	19.29	19.21	20.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	19.32	19.23	19.13	20.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	19.25	19.34	19.33	20.0
20	PI/2 BPSK	1	26	19.25	19.31	19.29	
20	PI/2 BPSK	1	49	19.11	19.21	19.21	
20	PI/2 BPSK	25	0	19.22	19.26	19.16	20.0
20	PI/2 BPSK	25	13	19.26	19.29	19.29	20.0
20	PI/2 BPSK	25	26	19.11	19.21	19.13	20.0
20	PI/2 BPSK	50	0	19.18	19.26	19.26	
20	QPSK	1	1	19.32	19.32	19.25	20.0
20	QPSK	1	26	19.28	19.29	19.24	
20	QPSK	1	49	19.17	19.21	19.11	
20	QPSK	25	0	19.23	19.26	19.22	20.0
20	QPSK	25	13	19.22	19.29	19.23	
20	QPSK	25	26	19.16	19.21	19.18	
20	QPSK	50	0	19.16	19.26	19.23	20.0
20	16QAM	1	1	19.29	19.32	19.28	20.0
20	64QAM	1	1	19.25	19.27	19.20	20.0
20	256QAM	1	1	19.22	19.27	19.26	20.0
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	19.33	19.29	19.21	20.0
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	19.32	19.23	19.13	20.0



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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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	20.74	20.80	20.75	22.4
20	PI/2 BPSK	1	26	20.72	20.79	20.78	
20	PI/2 BPSK	1	49	20.65	20.75	20.74	
20	PI/2 BPSK	25	0	20.73	20.78	20.76	22.4
20	PI/2 BPSK	25	13	20.76	20.77	20.73	22.4
20	PI/2 BPSK	25	26	20.70	20.79	20.76	22.4
20	PI/2 BPSK	50	0	20.72	20.76	20.74	
20	QPSK	1	1	20.73	20.77	20.75	22.4
20	QPSK	1	26	20.79	20.79	20.78	
20	QPSK	1	49	20.76	20.76	20.71	
20	QPSK	25	0	20.73	20.79	20.71	22.4
20	QPSK	25	13	20.75	20.78	20.69	
20	QPSK	25	26	20.70	20.76	20.72	
20	QPSK	50	0	20.71	20.78	20.72	22.4
20	16QAM	1	1	20.70	20.79	20.74	22.4
20	64QAM	1	1	20.68	20.75	20.71	22.4
20	256QAM	1	1	19.83	19.89	19.82	20.9
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	20.77	20.78	20.71	22.4
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	20.74	20.71	20.71	22.4

<FR1 n38\_Ant 2\_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	20.74	20.80	20.75	21.7
20	PI/2 BPSK	1	26	20.72	20.79	20.78	
20	PI/2 BPSK	1	49	20.65	20.75	20.74	
20	PI/2 BPSK	25	0	20.73	20.78	20.76	21.7
20	PI/2 BPSK	25	13	20.76	20.77	20.73	21.7
20	PI/2 BPSK	25	26	20.70	20.79	20.76	21.7
20	PI/2 BPSK	50	0	20.72	20.76	20.74	
20	QPSK	1	1	20.73	20.77	20.75	21.7
20	QPSK	1	26	20.79	20.79	20.78	
20	QPSK	1	49	20.76	20.76	20.71	
20	QPSK	25	0	20.73	20.79	20.71	21.7
20	QPSK	25	13	20.75	20.78	20.69	
20	QPSK	25	26	20.70	20.76	20.72	
20	QPSK	50	0	20.71	20.78	20.72	21.7
20	16QAM	1	1	20.70	20.79	20.74	21.7
20	64QAM	1	1	20.68	20.75	20.71	21.7
20	256QAM	1	1	19.83	19.89	19.82	20.9
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	20.77	20.78	20.71	21.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	20.74	20.71	20.71	21.7



<FR1 n38\_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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	18.19	18.21	18.15	18.7
20	PI/2 BPSK	1	26	18.07	18.12	18.10	
20	PI/2 BPSK	1	49	18.08	18.15	18.10	
20	PI/2 BPSK	25	0	18.15	18.20	18.20	18.7
20	PI/2 BPSK	25	13	18.17	18.17	18.09	18.7
20	PI/2 BPSK	25	26	18.14	18.19	18.19	18.7
20	PI/2 BPSK	50	0	18.14	18.20	18.16	
20	QPSK	1	1	18.13	18.18	18.16	18.7
20	QPSK	1	26	18.11	18.13	18.03	
20	QPSK	1	49	18.11	18.15	18.05	
20	QPSK	25	0	18.19	18.19	18.18	18.7
20	QPSK	25	13	18.10	18.19	18.16	
20	QPSK	25	26	18.08	18.17	18.13	
20	QPSK	50	0	18.16	18.20	18.19	18.7
20	16QAM	1	1	18.18	18.20	18.11	18.7
20	64QAM	1	1	18.04	18.14	18.04	18.7
20	256QAM	1	1	18.07	18.16	18.16	18.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	18.15	18.14	18.19	18.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	18.14	18.07	18.15	18.7

<FR1 n38\_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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	19.67	19.74	19.64	21.5
20	PI/2 BPSK	1	26	19.63	19.64	19.60	
20	PI/2 BPSK	1	49	19.59	19.62	19.59	
20	PI/2 BPSK	25	0	19.67	19.70	19.62	21.5
20	PI/2 BPSK	25	13	19.66	19.68	19.63	21.5
20	PI/2 BPSK	25	26	19.67	19.67	19.57	21.5
20	PI/2 BPSK	50	0	19.58	19.66	19.58	
20	QPSK	1	1	19.57	19.66	19.64	21.5
20	QPSK	1	26	19.51	19.61	19.61	
20	QPSK	1	49	19.50	19.52	19.51	
20	QPSK	25	0	19.57	19.67	19.64	21.5
20	QPSK	25	13	19.55	19.59	19.57	
20	QPSK	25	26	19.58	19.65	19.64	
20	QPSK	50	0	19.64	19.65	19.61	21.5
20	16QAM	1	1	19.65	19.73	19.65	21.5
20	64QAM	1	1	19.66	19.71	19.63	21.5
20	256QAM	1	1	19.69	19.73	19.66	20.9
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	19.70	19.72	19.71	21.5
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	19.65	19.68	19.69	21.5



<FR1 n38\_Ant 2\_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	19.67	19.74	19.64	20.8
20	PI/2 BPSK	1	26	19.63	19.64	19.60	
20	PI/2 BPSK	1	49	19.59	19.62	19.59	
20	PI/2 BPSK	25	0	19.67	19.70	19.62	20.8
20	PI/2 BPSK	25	13	19.66	19.68	19.63	20.8
20	PI/2 BPSK	25	26	19.67	19.67	19.57	20.8
20	PI/2 BPSK	50	0	19.58	19.66	19.58	
20	QPSK	1	1	19.57	19.66	19.64	20.8
20	QPSK	1	26	19.51	19.61	19.61	
20	QPSK	1	49	19.50	19.52	19.51	
20	QPSK	25	0	19.57	19.67	19.64	20.8
20	QPSK	25	13	19.55	19.59	19.57	
20	QPSK	25	26	19.58	19.65	19.64	
20	QPSK	50	0	19.64	19.65	19.61	20.8
20	16QAM	1	1	19.65	19.73	19.65	20.8
20	64QAM	1	1	19.66	19.71	19.63	20.8
20	256QAM	1	1	19.69	19.73	19.66	20.8
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	19.70	19.72	19.71	20.8
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	19.65	19.68	19.69	20.8



**<FR1 n38\_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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.45	16.46	16.36	17.4
20	PI/2 BPSK	1	26	16.30	16.40	16.36	
20	PI/2 BPSK	1	49	16.32	16.34	16.33	
20	PI/2 BPSK	25	0	16.33	16.41	16.40	17.4
20	PI/2 BPSK	25	13	16.35	16.41	16.31	17.4
20	PI/2 BPSK	25	26	16.31	16.34	16.26	17.4
20	PI/2 BPSK	50	0	16.33	16.38	16.29	
20	QPSK	1	1	16.39	16.45	16.45	17.4
20	QPSK	1	26	16.35	16.43	16.35	
20	QPSK	1	49	16.34	16.34	16.33	
20	QPSK	25	0	16.39	16.41	16.35	17.4
20	QPSK	25	13	16.37	16.38	16.35	
20	QPSK	25	26	16.33	16.34	16.28	
20	QPSK	50	0	16.32	16.38	16.32	17.4
20	16QAM	1	1	16.45	16.45	16.36	17.4
20	64QAM	1	1	16.38	16.39	16.30	17.4
20	256QAM	1	1	16.37	16.38	16.31	17.4
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.32	16.43	16.43	17.4
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	16.32	16.40	16.44	17.4

**<FR1 n38\_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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.45	16.46	16.36	16.7
20	PI/2 BPSK	1	26	16.30	16.40	16.36	
20	PI/2 BPSK	1	49	16.32	16.34	16.33	
20	PI/2 BPSK	25	0	16.33	16.41	16.40	16.7
20	PI/2 BPSK	25	13	16.35	16.41	16.31	16.7
20	PI/2 BPSK	25	26	16.31	16.34	16.26	16.7
20	PI/2 BPSK	50	0	16.33	16.38	16.29	
20	QPSK	1	1	16.39	16.45	16.45	16.7
20	QPSK	1	26	16.35	16.43	16.35	
20	QPSK	1	49	16.34	16.34	16.33	
20	QPSK	25	0	16.39	16.41	16.35	16.7
20	QPSK	25	13	16.37	16.38	16.35	
20	QPSK	25	26	16.33	16.34	16.28	
20	QPSK	50	0	16.32	16.38	16.32	16.7
20	16QAM	1	1	16.45	16.45	16.36	16.7
20	64QAM	1	1	16.38	16.39	16.30	16.7
20	256QAM	1	1	16.37	16.38	16.31	16.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.32	16.43	16.43	16.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	16.32	16.40	16.44	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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	18.41	18.44	18.40	19.4
20	PI/2 BPSK	1	26	18.36	18.42	18.37	
20	PI/2 BPSK	1	49	18.30	18.37	18.37	
20	PI/2 BPSK	25	0	18.36	18.39	18.34	19.4
20	PI/2 BPSK	25	13	18.32	18.41	18.39	19.4
20	PI/2 BPSK	25	26	18.29	18.33	18.24	19.4
20	PI/2 BPSK	50	0	18.38	18.38	18.37	
20	QPSK	1	1	18.35	18.43	18.36	19.4
20	QPSK	1	26	18.35	18.40	18.38	
20	QPSK	1	49	18.24	18.32	18.32	
20	QPSK	25	0	18.35	18.39	18.37	19.4
20	QPSK	25	13	18.35	18.41	18.38	
20	QPSK	25	26	18.28	18.34	18.30	
20	QPSK	50	0	18.31	18.39	18.35	19.4
20	16QAM	1	1	18.35	18.43	18.35	19.4
20	64QAM	1	1	18.27	18.37	18.35	19.4
20	256QAM	1	1	18.36	18.42	18.42	19.4
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	18.40	18.37	18.37	19.4
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	18.37	18.33	18.29	19.4

<FR1 n38\_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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	19.49	19.58	19.55	21.4
20	PI/2 BPSK	1	26	19.47	19.54	19.47	
20	PI/2 BPSK	1	49	19.48	19.48	19.43	
20	PI/2 BPSK	25	0	19.45	19.53	19.52	21.4
20	PI/2 BPSK	25	13	19.47	19.49	19.47	21.4
20	PI/2 BPSK	25	26	19.49	19.49	19.46	21.4
20	PI/2 BPSK	50	0	19.47	19.47	19.46	
20	QPSK	1	1	19.49	19.56	19.49	21.4
20	QPSK	1	26	19.47	19.53	19.53	
20	QPSK	1	49	19.49	19.49	19.43	
20	QPSK	25	0	19.49	19.49	19.49	21.4
20	QPSK	25	13	19.41	19.48	19.41	
20	QPSK	25	26	19.38	19.43	19.42	
20	QPSK	50	0	19.43	19.44	19.40	21.4
20	16QAM	1	1	19.57	19.57	19.55	21.4
20	64QAM	1	1	19.47	19.47	19.44	21.4
20	256QAM	1	1	18.52	18.55	18.51	20.5
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	19.45	19.53	19.55	21.4
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	19.40	19.57	19.46	21.4



<FR1 n38\_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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	19.49	19.58	19.55	20.7
20	PI/2 BPSK	1	26	19.47	19.54	19.47	
20	PI/2 BPSK	1	49	19.48	19.48	19.43	
20	PI/2 BPSK	25	0	19.45	19.53	19.52	20.7
20	PI/2 BPSK	25	13	19.47	19.49	19.47	20.7
20	PI/2 BPSK	25	26	19.49	19.49	19.46	20.7
20	PI/2 BPSK	50	0	19.47	19.47	19.46	
20	QPSK	1	1	19.49	19.56	19.49	20.7
20	QPSK	1	26	19.47	19.53	19.53	
20	QPSK	1	49	19.49	19.49	19.43	
20	QPSK	25	0	19.49	19.49	19.49	20.7
20	QPSK	25	13	19.41	19.48	19.41	
20	QPSK	25	26	19.38	19.43	19.42	
20	QPSK	50	0	19.43	19.44	19.40	20.7
20	16QAM	1	1	19.57	19.57	19.55	20.7
20	64QAM	1	1	19.47	19.47	19.44	20.7
20	256QAM	1	1	18.52	18.55	18.51	20.5
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	19.45	19.53	19.55	20.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	19.40	19.57	19.46	20.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.22	22.17	22.32	23.7
100	PI/2 BPSK	1	137	22.07	21.95	22.16	
100	PI/2 BPSK	1	271	22.04	22.04	22.22	
100	PI/2 BPSK	135	0	21.66	21.74	21.61	23.2
100	PI/2 BPSK	135	69	22.13	22.11	22.10	23.7
100	PI/2 BPSK	135	138	21.61	21.56	21.62	23.2
100	PI/2 BPSK	270	0	21.65	21.61	21.64	
100	QPSK	1	1	22.28	22.29	22.25	23.7
100	QPSK	1	137	22.10	22.09	22.08	
100	QPSK	1	271	22.15	22.13	22.19	
100	QPSK	135	0	21.19	21.21	21.06	23.7
100	QPSK	135	69	22.10	22.09	22.11	
100	QPSK	135	138	21.09	21.04	21.11	
100	QPSK	270	0	21.11	21.05	21.08	22.7
100	16QAM	1	1	21.27	21.30	21.23	22.7
100	64QAM	1	1	19.72	19.78	19.67	21.2
100	256QAM	1	1	17.84	17.89	17.83	19.2
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.18	22.11	22.22	23.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.14	22.07	22.18	23.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.13	22.17	22.20	23.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.19	22.10	22.18	23.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.21	22.17	22.21	23.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.20	22.16	22.18	23.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.12	22.10	22.11	23.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.14	22.08	22.21	23.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.19	22.17	22.12	23.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.17	22.11	22.14	23.7



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.18	18.20	18.10	18.4
100	PI/2 BPSK	1	137	18.03	18.11	18.07	
100	PI/2 BPSK	1	271	18.08	18.16	18.14	
100	PI/2 BPSK	135	0	18.12	18.22	18.14	18.4
100	PI/2 BPSK	135	69	18.08	18.11	18.05	18.4
100	PI/2 BPSK	135	138	18.03	18.08	18.02	18.4
100	PI/2 BPSK	270	0	18.12	18.13	18.09	
100	QPSK	1	1	18.17	18.18	18.11	18.4
100	QPSK	1	137	18.10	18.12	18.04	
100	QPSK	1	271	18.08	18.18	18.18	
100	QPSK	135	0	18.16	18.19	18.12	18.4
100	QPSK	135	69	18.10	18.11	18.03	
100	QPSK	135	138	18.08	18.08	17.98	
100	QPSK	270	0	18.07	18.14	18.11	18.4
100	16QAM	1	1	18.15	18.19	18.12	18.4
100	64QAM	1	1	18.10	18.18	18.18	18.4
100	256QAM	1	1	18.01	18.11	18.03	18.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.08	18.18	18.03	18.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.08	18.15	18.07	18.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.18	18.14	18.09	18.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.09	18.15	18.06	18.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.15	18.17	18.00	18.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.16	18.18	18.02	18.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.12	18.12	18.05	18.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.14	18.10	18.05	18.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.08	18.19	18.10	18.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.10	18.13	18.03	18.4



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.98	19.02	18.95	20.5
100	PI/2 BPSK	1	137	18.61	18.61	18.58	
100	PI/2 BPSK	1	271	18.87	18.89	18.89	
100	PI/2 BPSK	135	0	18.71	18.81	18.72	20.5
100	PI/2 BPSK	135	69	18.62	18.65	18.63	20.5
100	PI/2 BPSK	135	138	18.62	18.69	18.69	20.5
100	PI/2 BPSK	270	0	18.69	18.69	18.64	
100	QPSK	1	1	18.94	18.94	18.84	20.5
100	QPSK	1	137	18.58	18.59	18.51	
100	QPSK	1	271	18.81	18.85	18.76	
100	QPSK	135	0	18.75	18.75	18.69	20.5
100	QPSK	135	69	18.58	18.62	18.61	
100	QPSK	135	138	18.62	18.64	18.64	
100	QPSK	270	0	18.60	18.63	18.56	20.5
100	16QAM	1	1	18.91	19.00	18.93	20.5
100	64QAM	1	1	18.94	18.98	18.93	20.5
100	256QAM	1	1	17.94	18.00	17.98	19.2
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.94	18.98	18.85	20.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.98	18.96	18.86	20.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.90	18.95	18.92	20.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.98	18.99	18.90	20.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.98	18.93	18.95	20.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.91	18.98	18.85	20.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.89	18.95	18.89	20.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.97	18.99	18.93	20.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.94	19.01	18.88	20.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.91	19.01	18.93	20.5



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.98	19.02	18.95	19.8
100	PI/2 BPSK	1	137	18.61	18.61	18.58	
100	PI/2 BPSK	1	271	18.87	18.89	18.89	
100	PI/2 BPSK	135	0	18.71	18.81	18.72	19.8
100	PI/2 BPSK	135	69	18.62	18.65	18.63	19.8
100	PI/2 BPSK	135	138	18.62	18.69	18.69	19.8
100	PI/2 BPSK	270	0	18.69	18.69	18.64	
100	QPSK	1	1	18.94	18.94	18.84	19.8
100	QPSK	1	137	18.58	18.59	18.51	
100	QPSK	1	271	18.81	18.85	18.76	
100	QPSK	135	0	18.75	18.75	18.69	19.8
100	QPSK	135	69	18.58	18.62	18.61	
100	QPSK	135	138	18.62	18.64	18.64	
100	QPSK	270	0	18.60	18.63	18.56	19.8
100	16QAM	1	1	18.91	19.00	18.93	19.8
100	64QAM	1	1	18.94	18.98	18.93	19.8
100	256QAM	1	1	17.94	18.00	17.98	19.2
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.94	18.98	18.85	19.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.98	18.96	18.86	19.8
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.90	18.95	18.92	19.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.98	18.99	18.90	19.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.98	18.93	18.95	19.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.91	18.98	18.85	19.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.89	18.95	18.89	19.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.97	18.99	18.93	19.8
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.94	19.01	18.88	19.8
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.91	19.01	18.93	19.8



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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				509202	518598	528000	26.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.05	25.08	25.19	
100	PI/2 BPSK	1	137	24.74	24.96	25.17	26.0
100	PI/2 BPSK	1	271	25.04	25.24	25.57	
100	PI/2 BPSK	135	0	24.34	24.44	24.64	26.5
100	PI/2 BPSK	135	69	24.76	24.94	25.19	
100	PI/2 BPSK	135	138	24.37	24.54	24.85	26.0
100	PI/2 BPSK	270	0	24.31	24.48	24.73	
100	QPSK	1	1	24.97	25.02	25.25	26.5
100	QPSK	1	137	24.78	24.96	25.18	
100	QPSK	1	271	25.08	25.22	25.53	
100	QPSK	135	0	23.84	23.96	24.15	26.5
100	QPSK	135	69	24.79	24.96	25.18	
100	QPSK	135	138	23.87	24.05	24.36	
100	QPSK	270	0	23.80	23.96	24.22	25.5
100	16QAM	1	1	23.99	24.04	24.26	25.5
100	64QAM	1	1	22.42	22.50	22.70	24.0
100	256QAM	1	1	20.48	20.55	20.74	22.0
Channel				508200	518598	528996	26.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.03	25.00	25.05	26.5
Channel				507204	518598	529998	26.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.00	24.98	25.03	26.5
Channel				506202	518598	531000	26.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.99	24.97	25.02	26.5
Channel				505200	518598	531996	26.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.01	24.98	25.12	26.5
Channel				504204	518598	532998	26.5
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.08	24.96	25.11	26.5
Channel				503202	518598	534000	26.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.03	24.94	25.09	26.5
Channel				502200	518598	534996	26.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.06	24.94	25.08	26.5
Channel				501204	518598	535998	26.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.02	24.95	25.06	26.5
Channel				500700	518598	536496	26.5
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.01	24.93	25.04	26.5
Channel				500202	518598	537000	26.5
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.98	24.95	25.03	26.5



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.14	21.23	21.15	21.5
100	PI/2 BPSK	1	137	21.07	21.10	21.07	
100	PI/2 BPSK	1	271	21.18	21.18	21.08	
100	PI/2 BPSK	135	0	21.17	21.21	21.20	21.5
100	PI/2 BPSK	135	69	21.09	21.13	21.05	21.5
100	PI/2 BPSK	135	138	21.02	21.11	21.11	21.5
100	PI/2 BPSK	270	0	21.09	21.13	21.04	
100	QPSK	1	1	21.15	21.22	21.12	21.5
100	QPSK	1	137	21.04	21.10	21.09	
100	QPSK	1	271	21.16	21.18	21.09	
100	QPSK	135	0	21.19	21.21	21.17	21.5
100	QPSK	135	69	21.10	21.13	21.10	
100	QPSK	135	138	21.06	21.11	21.10	
100	QPSK	270	0	21.10	21.13	21.10	21.5
100	16QAM	1	1	21.11	21.20	21.13	21.5
100	64QAM	1	1	21.12	21.17	21.14	21.5
100	256QAM	1	1	20.68	20.75	20.69	21.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.09	21.15	21.02	21.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.14	21.13	21.08	21.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.11	21.17	21.08	21.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.10	21.15	21.02	21.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.05	21.22	21.11	21.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.05	21.19	21.08	21.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.13	21.15	21.07	21.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.07	21.12	21.09	21.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.12	21.18	21.12	21.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.10	21.16	21.09	21.5





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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.13	22.15	22.11	23.6
100	PI/2 BPSK	1	137	21.69	21.79	21.77	
100	PI/2 BPSK	1	271	21.98	22.03	21.94	
100	PI/2 BPSK	135	0	21.86	21.95	21.89	23.6
100	PI/2 BPSK	135	69	21.79	21.83	21.78	23.6
100	PI/2 BPSK	135	138	21.86	21.88	21.87	23.6
100	PI/2 BPSK	270	0	21.81	21.88	21.87	
100	QPSK	1	1	22.00	22.06	21.97	23.6
100	QPSK	1	137	21.72	21.75	21.74	
100	QPSK	1	271	21.91	21.93	21.86	
100	QPSK	135	0	21.82	21.87	21.79	23.6
100	QPSK	135	69	21.67	21.75	21.68	
100	QPSK	135	138	21.82	21.84	21.84	
100	QPSK	270	0	21.81	21.87	21.82	23.6
100	16QAM	1	1	22.11	22.13	22.06	23.6
100	64QAM	1	1	22.10	22.12	22.09	23.6
100	256QAM	1	1	20.68	20.72	20.68	22.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.09	22.10	22.06	23.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.05	22.06	22.10	23.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.09	22.05	22.07	23.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.06	22.10	22.04	23.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.08	22.13	22.04	23.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.12	22.12	22.05	23.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.12	22.11	22.07	23.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.03	22.07	22.06	23.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.11	22.08	22.06	23.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.09	22.14	22.01	23.6



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.13	22.15	22.11	22.9
100	PI/2 BPSK	1	137	21.69	21.79	21.77	
100	PI/2 BPSK	1	271	21.98	22.03	21.94	
100	PI/2 BPSK	135	0	21.86	21.95	21.89	22.9
100	PI/2 BPSK	135	69	21.79	21.83	21.78	22.9
100	PI/2 BPSK	135	138	21.86	21.88	21.87	22.9
100	PI/2 BPSK	270	0	21.81	21.88	21.87	
100	QPSK	1	1	22.00	22.06	21.97	22.9
100	QPSK	1	137	21.72	21.75	21.74	
100	QPSK	1	271	21.91	21.93	21.86	
100	QPSK	135	0	21.82	21.87	21.79	22.9
100	QPSK	135	69	21.67	21.75	21.68	
100	QPSK	135	138	21.82	21.84	21.84	
100	QPSK	270	0	21.81	21.87	21.82	22.9
100	16QAM	1	1	22.11	22.13	22.06	22.9
100	64QAM	1	1	22.10	22.12	22.09	22.9
100	256QAM	1	1	20.68	20.72	20.68	22.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.09	22.10	22.06	22.9
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.05	22.06	22.10	22.9
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.09	22.05	22.07	22.9
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.06	22.10	22.04	22.9
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.08	22.13	22.04	22.9
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.12	22.12	22.05	22.9
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.12	22.11	22.07	22.9
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.03	22.07	22.06	22.9
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.11	22.08	22.06	22.9
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.09	22.14	22.01	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	13.25	13.34	13.28	14.4
100	PI/2 BPSK	1	137	13.17	13.22	13.15	
100	PI/2 BPSK	1	271	12.96	12.99	12.97	
100	PI/2 BPSK	135	0	13.25	13.25	13.18	14.4
100	PI/2 BPSK	135	69	13.19	13.21	13.13	14.4
100	PI/2 BPSK	135	138	13.12	13.12	13.07	14.4
100	PI/2 BPSK	270	0	13.13	13.20	13.19	
100	QPSK	1	1	13.33	13.33	13.33	14.4
100	QPSK	1	137	13.15	13.20	13.14	
100	QPSK	1	271	12.99	13.00	12.95	
100	QPSK	135	0	13.19	13.26	13.26	14.4
100	QPSK	135	69	13.18	13.21	13.13	
100	QPSK	135	138	13.11	13.12	13.11	
100	QPSK	270	0	13.18	13.20	13.10	14.4
100	16QAM	1	1	13.27	13.31	13.22	14.4
100	64QAM	1	1	13.27	13.28	13.25	14.4
100	256QAM	1	1	13.30	13.30	13.22	14.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	13.29	13.31	13.26	14.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	13.26	13.29	13.32	14.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	13.29	13.30	13.25	14.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	13.30	13.25	13.27	14.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	13.32	13.29	13.32	14.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	13.26	13.27	13.24	14.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	13.32	13.33	13.33	14.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	13.28	13.32	13.24	14.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	13.24	13.30	13.27	14.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	13.24	13.28	13.24	14.4



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	13.25	13.34	13.28	13.7
100	PI/2 BPSK	1	137	13.17	13.22	13.15	
100	PI/2 BPSK	1	271	12.96	12.99	12.97	
100	PI/2 BPSK	135	0	13.25	13.25	13.18	13.7
100	PI/2 BPSK	135	69	13.19	13.21	13.13	13.7
100	PI/2 BPSK	135	138	13.12	13.12	13.07	13.7
100	PI/2 BPSK	270	0	13.13	13.20	13.19	
100	QPSK	1	1	13.33	13.33	13.33	13.7
100	QPSK	1	137	13.15	13.20	13.14	
100	QPSK	1	271	12.99	13.00	12.95	
100	QPSK	135	0	13.19	13.26	13.26	13.7
100	QPSK	135	69	13.18	13.21	13.13	
100	QPSK	135	138	13.11	13.12	13.11	
100	QPSK	270	0	13.18	13.20	13.10	13.7
100	16QAM	1	1	13.27	13.31	13.22	13.7
100	64QAM	1	1	13.27	13.28	13.25	13.7
100	256QAM	1	1	13.30	13.30	13.22	13.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	13.29	13.31	13.26	13.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	13.26	13.29	13.32	13.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	13.29	13.30	13.25	13.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	13.30	13.25	13.27	13.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	13.32	13.29	13.32	13.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	13.26	13.27	13.24	13.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	13.32	13.33	13.33	13.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	13.28	13.32	13.24	13.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	13.24	13.30	13.27	13.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	13.24	13.28	13.24	13.7



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.34	18.40	18.30	19.3
100	PI/2 BPSK	1	137	18.27	18.32	18.28	
100	PI/2 BPSK	1	271	18.05	18.08	18.07	
100	PI/2 BPSK	135	0	18.35	18.35	18.33	19.3
100	PI/2 BPSK	135	69	18.23	18.29	18.21	19.3
100	PI/2 BPSK	135	138	18.09	18.19	18.10	19.3
100	PI/2 BPSK	270	0	18.27	18.27	18.18	
100	QPSK	1	1	18.33	18.38	18.32	19.3
100	QPSK	1	137	18.24	18.33	18.28	
100	QPSK	1	271	18.07	18.08	18.08	
100	QPSK	135	0	18.26	18.34	18.33	19.3
100	QPSK	135	69	18.25	18.29	18.22	
100	QPSK	135	138	18.11	18.19	18.19	
100	QPSK	270	0	18.21	18.27	18.21	19.3
100	16QAM	1	1	18.29	18.38	18.37	19.3
100	64QAM	1	1	18.28	18.32	18.32	19.3
100	256QAM	1	1	18.32	18.33	18.33	19.3
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.35	18.28	18.01	19.3
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.37	18.27	18.07	19.3
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.30	18.30	18.07	19.3
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.30	18.22	18.08	19.3
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.37	18.23	18.00	19.3
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.36	18.28	18.02	19.3
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.35	18.30	17.99	19.3
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.31	18.32	18.03	19.3
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.31	18.24	18.06	19.3
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.39	18.27	18.03	19.3



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.32	19.38	19.36	20.7
100	PI/2 BPSK	1	137	19.23	19.31	19.30	
100	PI/2 BPSK	1	271	18.95	19.04	19.04	
100	PI/2 BPSK	135	0	19.25	19.33	19.32	20.7
100	PI/2 BPSK	135	69	19.26	19.27	19.26	20.7
100	PI/2 BPSK	135	138	19.19	19.19	19.19	20.7
100	PI/2 BPSK	270	0	19.17	19.23	19.23	
100	QPSK	1	1	19.27	19.37	19.32	20.7
100	QPSK	1	137	19.29	19.32	19.25	
100	QPSK	1	271	18.98	19.04	18.98	
100	QPSK	135	0	19.29	19.33	19.30	20.7
100	QPSK	135	69	19.20	19.28	19.28	
100	QPSK	135	138	19.09	19.15	19.09	
100	QPSK	270	0	19.16	19.23	19.16	20.7
100	16QAM	1	1	19.33	19.37	19.29	20.7
100	64QAM	1	1	19.33	19.33	19.32	20.7
100	256QAM	1	1	18.82	18.84	18.79	19.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.17	19.37	19.31	20.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.23	19.35	19.32	20.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.24	19.34	19.22	20.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.27	19.27	19.22	20.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.20	19.35	19.25	20.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.18	19.36	19.24	20.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.21	19.37	19.25	20.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.24	19.28	19.24	20.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.20	19.32	19.30	20.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.21	19.33	19.26	20.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.32	19.38	19.36	20.0
100	PI/2 BPSK	1	137	19.23	19.31	19.30	
100	PI/2 BPSK	1	271	18.95	19.04	19.04	
100	PI/2 BPSK	135	0	19.25	19.33	19.32	20.0
100	PI/2 BPSK	135	69	19.26	19.27	19.26	20.0
100	PI/2 BPSK	135	138	19.19	19.19	19.19	20.0
100	PI/2 BPSK	270	0	19.17	19.23	19.23	
100	QPSK	1	1	19.27	19.37	19.32	20.0
100	QPSK	1	137	19.29	19.32	19.25	
100	QPSK	1	271	18.98	19.04	18.98	
100	QPSK	135	0	19.29	19.33	19.30	20.0
100	QPSK	135	69	19.20	19.28	19.28	
100	QPSK	135	138	19.09	19.15	19.09	
100	QPSK	270	0	19.16	19.23	19.16	20.0
100	16QAM	1	1	19.33	19.37	19.29	20.0
100	64QAM	1	1	19.33	19.33	19.32	20.0
100	256QAM	1	1	18.82	18.84	18.79	19.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.17	19.37	19.31	20.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.23	19.35	19.32	20.0
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.24	19.34	19.22	20.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.27	19.27	19.22	20.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.20	19.35	19.25	20.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.18	19.36	19.24	20.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.21	19.37	19.25	20.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.24	19.28	19.24	20.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.20	19.32	19.30	20.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.21	19.33	19.26	20.0



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.46	16.47	16.38	17.4
100	PI/2 BPSK	1	137	16.29	16.33	16.30	
100	PI/2 BPSK	1	271	16.00	16.08	16.00	
100	PI/2 BPSK	135	0	16.34	16.40	16.33	17.4
100	PI/2 BPSK	135	69	16.30	16.35	16.34	17.4
100	PI/2 BPSK	135	138	16.20	16.24	16.24	17.4
100	PI/2 BPSK	270	0	16.27	16.33	16.33	
100	QPSK	1	1	16.37	16.43	16.37	17.4
100	QPSK	1	137	16.32	16.33	16.28	
100	QPSK	1	271	16.04	16.08	15.98	
100	QPSK	135	0	16.33	16.39	16.34	17.4
100	QPSK	135	69	16.24	16.34	16.30	
100	QPSK	135	138	16.23	16.23	16.16	
100	QPSK	270	0	16.26	16.32	16.28	17.4
100	16QAM	1	1	16.38	16.45	16.41	17.4
100	64QAM	1	1	16.27	16.37	16.36	17.4
100	256QAM	1	1	16.30	16.38	16.32	17.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.33	16.38	16.29	17.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.30	16.40	16.34	17.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.36	16.39	16.30	17.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.30	16.39	16.33	17.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.37	16.42	16.35	17.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.31	16.42	16.28	17.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.35	16.35	16.36	17.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.33	16.39	16.34	17.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	16.35	16.41	16.27	17.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	16.34	16.34	16.35	17.4





<FR1 n41\_PC2\_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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.46	16.47	16.38	16.7
100	PI/2 BPSK	1	137	16.29	16.33	16.30	
100	PI/2 BPSK	1	271	16.00	16.08	16.00	
100	PI/2 BPSK	135	0	16.34	16.40	16.33	16.7
100	PI/2 BPSK	135	69	16.30	16.35	16.34	16.7
100	PI/2 BPSK	135	138	16.20	16.24	16.24	16.7
100	PI/2 BPSK	270	0	16.27	16.33	16.33	
100	QPSK	1	1	16.37	16.43	16.37	16.7
100	QPSK	1	137	16.32	16.33	16.28	
100	QPSK	1	271	16.04	16.08	15.98	
100	QPSK	135	0	16.33	16.39	16.34	16.7
100	QPSK	135	69	16.24	16.34	16.30	
100	QPSK	135	138	16.23	16.23	16.16	
100	QPSK	270	0	16.26	16.32	16.28	16.7
100	16QAM	1	1	16.38	16.45	16.41	16.7
100	64QAM	1	1	16.27	16.37	16.36	16.7
100	256QAM	1	1	16.30	16.38	16.32	16.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.33	16.38	16.29	16.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.30	16.40	16.34	16.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.36	16.39	16.30	16.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.30	16.39	16.33	16.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.37	16.42	16.35	16.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.31	16.42	16.28	16.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.35	16.35	16.36	16.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.33	16.39	16.34	16.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	16.35	16.41	16.27	16.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	16.34	16.34	16.35	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.39	21.42	21.33	22.3
100	PI/2 BPSK	1	137	21.28	21.31	21.28	
100	PI/2 BPSK	1	271	21.03	21.03	21.01	
100	PI/2 BPSK	135	0	21.31	21.32	21.24	22.3
100	PI/2 BPSK	135	69	21.26	21.30	21.27	22.3
100	PI/2 BPSK	135	138	21.16	21.16	21.11	22.3
100	PI/2 BPSK	270	0	21.19	21.24	21.16	
100	QPSK	1	1	21.36	21.41	21.33	22.3
100	QPSK	1	137	21.32	21.32	21.22	
100	QPSK	1	271	20.96	21.02	20.95	
100	QPSK	135	0	21.28	21.32	21.25	22.3
100	QPSK	135	69	21.21	21.27	21.17	
100	QPSK	135	138	21.08	21.15	21.05	
100	QPSK	270	0	21.21	21.28	21.23	22.3
100	16QAM	1	1	21.33	21.37	21.33	22.3
100	64QAM	1	1	21.27	21.30	21.24	22.3
100	256QAM	1	1	21.30	21.34	21.25	22.3
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.27	21.34	21.24	22.3
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.33	21.39	21.25	22.3
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.30	21.33	21.24	22.3
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.32	21.41	21.27	22.3
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.34	21.33	21.31	22.3
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.32	21.37	21.25	22.3
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.35	21.36	21.30	22.3
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.31	21.40	21.23	22.3
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.28	21.34	21.24	22.3
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.35	21.41	21.24	22.3



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.33	22.34	22.31	23.7
100	PI/2 BPSK	1	137	22.28	22.30	22.22	
100	PI/2 BPSK	1	271	21.95	21.98	21.94	
100	PI/2 BPSK	135	0	22.25	22.27	22.27	23.7
100	PI/2 BPSK	135	69	22.24	22.25	22.23	23.7
100	PI/2 BPSK	135	138	22.10	22.15	22.11	23.7
100	PI/2 BPSK	270	0	22.21	22.23	22.18	
100	QPSK	1	1	22.26	22.33	22.28	23.7
100	QPSK	1	137	22.23	22.27	22.21	
100	QPSK	1	271	21.94	21.97	21.93	
100	QPSK	135	0	22.25	22.27	22.19	23.7
100	QPSK	135	69	22.19	22.25	22.23	
100	QPSK	135	138	22.13	22.15	22.05	
100	QPSK	270	0	22.21	22.23	22.19	23.7
100	16QAM	1	1	22.23	22.33	22.29	23.7
100	64QAM	1	1	22.28	22.28	22.22	23.7
100	256QAM	1	1	21.73	21.78	21.76	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.23	22.30	22.19	23.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.23	22.32	22.19	23.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.20	22.25	22.19	23.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.19	22.26	22.18	23.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.21	22.29	22.18	23.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.19	22.33	22.28	23.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.25	22.26	22.26	23.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.21	22.31	22.24	23.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.20	22.26	22.23	23.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.17	22.30	22.19	23.7



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.33	22.34	22.31	23.0
100	PI/2 BPSK	1	137	22.28	22.30	22.22	
100	PI/2 BPSK	1	271	21.95	21.98	21.94	
100	PI/2 BPSK	135	0	22.25	22.27	22.27	23.0
100	PI/2 BPSK	135	69	22.24	22.25	22.23	23.0
100	PI/2 BPSK	135	138	22.10	22.15	22.11	23.0
100	PI/2 BPSK	270	0	22.21	22.23	22.18	
100	QPSK	1	1	22.26	22.33	22.28	23.0
100	QPSK	1	137	22.23	22.27	22.21	
100	QPSK	1	271	21.94	21.97	21.93	
100	QPSK	135	0	22.25	22.27	22.19	23.0
100	QPSK	135	69	22.19	22.25	22.23	
100	QPSK	135	138	22.13	22.15	22.05	
100	QPSK	270	0	22.21	22.23	22.19	23.0
100	16QAM	1	1	22.23	22.33	22.29	23.0
100	64QAM	1	1	22.28	22.28	22.22	23.0
100	256QAM	1	1	21.73	21.78	21.76	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.23	22.30	22.19	23.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.23	22.32	22.19	23.0
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.20	22.25	22.19	23.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.19	22.26	22.18	23.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.21	22.29	22.18	23.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.19	22.33	22.28	23.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.25	22.26	22.26	23.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.21	22.31	22.24	23.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.20	22.26	22.23	23.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.17	22.30	22.19	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.01	21.10	21.06	22.4
100	PI/2 BPSK	1	137	20.73	20.83	20.78	
100	PI/2 BPSK	1	271	20.85	20.93	20.85	
100	PI/2 BPSK	135	0	20.94	20.96	20.93	22.4
100	PI/2 BPSK	135	69	20.76	20.85	20.85	22.4
100	PI/2 BPSK	135	138	20.82	20.85	20.83	22.4
100	PI/2 BPSK	270	0	20.84	20.90	20.82	
100	QPSK	1	1	21.00	21.07	21.07	22.4
100	QPSK	1	137	20.77	20.84	20.83	
100	QPSK	1	271	20.88	20.92	20.88	
100	QPSK	135	0	20.94	20.98	20.97	22.4
100	QPSK	135	69	20.81	20.86	20.76	
100	QPSK	135	138	20.79	20.85	20.85	
100	QPSK	270	0	20.83	20.88	20.88	22.4
100	16QAM	1	1	21.02	21.09	21.09	22.4
100	64QAM	1	1	20.54	20.56	20.50	21.4
100	256QAM	1	1	18.57	18.67	18.66	19.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.92	21.02	21.03	22.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.00	21.01	20.99	22.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.98	21.09	21.01	22.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	20.98	21.05	20.98	22.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.93	21.06	21.06	22.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.00	21.07	21.04	22.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.94	21.03	20.97	22.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.96	21.06	21.02	22.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.01	21.07	21.06	22.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.93	21.03	20.99	22.4



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.01	21.10	21.06	21.7
100	PI/2 BPSK	1	137	20.73	20.83	20.78	
100	PI/2 BPSK	1	271	20.85	20.93	20.85	
100	PI/2 BPSK	135	0	20.94	20.96	20.93	21.7
100	PI/2 BPSK	135	69	20.76	20.85	20.85	21.7
100	PI/2 BPSK	135	138	20.82	20.85	20.83	21.7
100	PI/2 BPSK	270	0	20.84	20.90	20.82	
100	QPSK	1	1	21.00	21.07	21.07	21.7
100	QPSK	1	137	20.77	20.84	20.83	
100	QPSK	1	271	20.88	20.92	20.88	
100	QPSK	135	0	20.94	20.98	20.97	21.7
100	QPSK	135	69	20.81	20.86	20.76	
100	QPSK	135	138	20.79	20.85	20.85	
100	QPSK	270	0	20.83	20.88	20.88	21.7
100	16QAM	1	1	21.02	21.09	21.09	21.7
100	64QAM	1	1	20.54	20.56	20.50	21.4
100	256QAM	1	1	18.57	18.67	18.66	19.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.92	21.02	21.03	21.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.00	21.01	20.99	21.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.98	21.09	21.01	21.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	20.98	21.05	20.98	21.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.93	21.06	21.06	21.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.00	21.07	21.04	21.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.94	21.03	20.97	21.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.96	21.06	21.02	21.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.01	21.07	21.06	21.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.93	21.03	20.99	21.7



<FR1 n41\_PC3\_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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	17.67	17.73	17.67	18.7
100	PI/2 BPSK	1	137	17.66	17.68	17.64	
100	PI/2 BPSK	1	271	17.69	17.69	17.68	
100	PI/2 BPSK	135	0	17.62	17.68	17.65	18.7
100	PI/2 BPSK	135	69	17.64	17.65	17.65	18.7
100	PI/2 BPSK	135	138	17.55	17.63	17.55	18.7
100	PI/2 BPSK	270	0	17.50	17.59	17.49	
100	QPSK	1	1	17.61	17.71	17.63	18.7
100	QPSK	1	137	17.72	17.72	17.68	
100	QPSK	1	271	17.63	17.66	17.56	
100	QPSK	135	0	17.54	17.64	17.56	18.7
100	QPSK	135	69	17.62	17.66	17.57	
100	QPSK	135	138	17.57	17.61	17.56	
100	QPSK	270	0	17.49	17.57	17.55	18.7
100	16QAM	1	1	17.53	17.55	17.51	18.7
100	64QAM	1	1	17.56	17.63	17.61	18.7
100	256QAM	1	1	17.64	17.69	17.59	18.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	17.61	17.63	17.58	18.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	17.60	17.69	17.63	18.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	17.57	17.63	17.65	18.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	17.63	17.65	17.63	18.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	17.65	17.69	17.67	18.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	17.61	17.65	17.67	18.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	17.62	17.72	17.57	18.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	17.64	17.71	17.58	18.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	17.60	17.68	17.62	18.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	17.60	17.66	17.65	18.7



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.03	20.08	20.04	21.5
100	PI/2 BPSK	1	137	19.60	19.63	19.58	
100	PI/2 BPSK	1	271	19.82	19.82	19.80	
100	PI/2 BPSK	135	0	19.85	19.85	19.80	21.5
100	PI/2 BPSK	135	69	19.68	19.68	19.68	21.5
100	PI/2 BPSK	135	138	19.62	19.67	19.65	21.5
100	PI/2 BPSK	270	0	19.73	19.75	19.75	
100	QPSK	1	1	20.01	20.06	20.01	21.5
100	QPSK	1	137	19.55	19.60	19.50	
100	QPSK	1	271	19.70	19.79	19.69	
100	QPSK	135	0	19.69	19.77	19.76	21.5
100	QPSK	135	69	19.51	19.58	19.55	
100	QPSK	135	138	19.54	19.64	19.55	
100	QPSK	270	0	19.63	19.70	19.64	21.5
100	16QAM	1	1	20.01	20.05	19.97	21.5
100	64QAM	1	1	20.02	20.06	19.96	21.4
100	256QAM	1	1	18.60	18.69	18.59	19.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.99	20.00	20.02	21.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.94	20.04	20.00	21.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.00	20.01	20.03	21.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.93	20.03	20.02	21.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.02	20.06	20.00	21.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.01	20.07	20.01	21.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.94	20.02	20.03	21.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.01	20.04	20.04	21.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.96	20.04	20.01	21.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.97	20.05	20.04	21.5





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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.03	20.08	20.04	20.8
100	PI/2 BPSK	1	137	19.60	19.63	19.58	
100	PI/2 BPSK	1	271	19.82	19.82	19.80	
100	PI/2 BPSK	135	0	19.85	19.85	19.80	20.8
100	PI/2 BPSK	135	69	19.68	19.68	19.68	20.8
100	PI/2 BPSK	135	138	19.62	19.67	19.65	20.8
100	PI/2 BPSK	270	0	19.73	19.75	19.75	
100	QPSK	1	1	20.01	20.06	20.01	20.8
100	QPSK	1	137	19.55	19.60	19.50	
100	QPSK	1	271	19.70	19.79	19.69	
100	QPSK	135	0	19.69	19.77	19.76	20.8
100	QPSK	135	69	19.51	19.58	19.55	
100	QPSK	135	138	19.54	19.64	19.55	
100	QPSK	270	0	19.63	19.70	19.64	20.8
100	16QAM	1	1	20.01	20.05	19.97	20.8
100	64QAM	1	1	20.02	20.06	19.96	20.8
100	256QAM	1	1	18.60	18.69	18.59	19.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.99	20.00	20.02	20.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.94	20.04	20.00	20.8
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.00	20.01	20.03	20.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.93	20.03	20.02	20.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.02	20.06	20.00	20.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.01	20.07	20.01	20.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.94	20.02	20.03	20.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.01	20.04	20.04	20.8
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.96	20.04	20.01	20.8
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.97	20.05	20.04	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.22	24.25	24.19	25.4
100	PI/2 BPSK	1	137	23.86	23.95	23.87	
100	PI/2 BPSK	1	271	23.98	24.03	23.94	
100	PI/2 BPSK	135	0	24.01	24.05	24.05	25.4
100	PI/2 BPSK	135	69	23.92	23.96	23.90	25.4
100	PI/2 BPSK	135	138	23.94	23.94	23.91	25.4
100	PI/2 BPSK	270	0	23.90	23.98	23.98	
100	QPSK	1	1	24.24	24.24	24.22	25.4
100	QPSK	1	137	23.93	23.94	23.87	
100	QPSK	1	271	23.95	24.04	24.01	
100	QPSK	135	0	24.01	24.05	23.98	25.4
100	QPSK	135	69	23.89	23.96	23.88	
100	QPSK	135	138	23.83	23.93	23.88	
100	QPSK	270	0	23.93	23.97	23.97	25.4
100	16QAM	1	1	24.18	24.23	24.13	25.4
100	64QAM	1	1	23.69	23.69	23.59	24.4
100	256QAM	1	1	21.75	21.75	21.68	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.17	24.23	24.11	25.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.21	24.24	24.12	25.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.16	24.17	24.19	25.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.21	24.23	24.13	25.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.15	24.19	24.10	25.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.18	24.16	24.17	25.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.13	24.22	24.17	25.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.21	24.23	24.10	25.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.20	24.23	24.18	25.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.22	24.20	24.14	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.22	24.25	24.19	24.7
100	PI/2 BPSK	1	137	23.86	23.95	23.87	
100	PI/2 BPSK	1	271	23.98	24.03	23.94	
100	PI/2 BPSK	135	0	24.01	24.05	24.05	24.7
100	PI/2 BPSK	135	69	23.92	23.96	23.90	24.7
100	PI/2 BPSK	135	138	23.94	23.94	23.91	24.7
100	PI/2 BPSK	270	0	23.90	23.98	23.98	
100	QPSK	1	1	24.24	24.24	24.22	24.7
100	QPSK	1	137	23.93	23.94	23.87	
100	QPSK	1	271	23.95	24.04	24.01	
100	QPSK	135	0	24.01	24.05	23.98	24.7
100	QPSK	135	69	23.89	23.96	23.88	
100	QPSK	135	138	23.83	23.93	23.88	
100	QPSK	270	0	23.93	23.97	23.97	24.7
100	16QAM	1	1	24.18	24.23	24.13	24.7
100	64QAM	1	1	23.69	23.69	23.59	24.4
100	256QAM	1	1	21.75	21.75	21.68	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.17	24.23	24.11	24.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.21	24.24	24.12	24.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.16	24.17	24.19	24.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.21	24.23	24.13	24.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.15	24.19	24.10	24.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.18	24.16	24.17	24.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.13	24.22	24.17	24.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.21	24.23	24.10	24.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.20	24.23	24.18	24.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.22	24.20	24.14	24.7



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.28	21.36	21.28	21.7
100	PI/2 BPSK	1	137	20.99	21.08	21.01	
100	PI/2 BPSK	1	271	21.06	21.12	21.03	
100	PI/2 BPSK	135	0	21.06	21.14	21.06	21.7
100	PI/2 BPSK	135	69	20.97	21.05	20.96	21.7
100	PI/2 BPSK	135	138	20.95	21.03	20.96	21.7
100	PI/2 BPSK	270	0	20.98	21.05	21.03	
100	QPSK	1	1	21.32	21.35	21.31	21.7
100	QPSK	1	137	21.07	21.07	21.01	
100	QPSK	1	271	21.06	21.12	21.11	
100	QPSK	135	0	21.07	21.14	21.05	21.7
100	QPSK	135	69	21.01	21.04	21.04	
100	QPSK	135	138	20.99	21.02	20.92	
100	QPSK	270	0	21.01	21.05	20.98	21.7
100	16QAM	1	1	21.26	21.35	21.35	21.7
100	64QAM	1	1	21.26	21.29	21.26	21.7
100	256QAM	1	1	21.26	21.34	21.29	21.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.20	21.26	21.19	21.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.21	21.30	21.18	21.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.18	21.26	21.23	21.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.20	21.35	21.19	21.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.25	21.30	21.25	21.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.22	21.30	21.22	21.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.27	21.32	21.28	21.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.27	21.35	21.27	21.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.19	21.28	21.25	21.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.26	21.28	21.25	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.12	23.22	23.21	24.5
100	PI/2 BPSK	1	137	22.72	22.79	22.79	
100	PI/2 BPSK	1	271	22.87	22.97	22.92	
100	PI/2 BPSK	135	0	22.90	22.98	22.92	24.5
100	PI/2 BPSK	135	69	22.73	22.82	22.80	24.5
100	PI/2 BPSK	135	138	22.79	22.81	22.75	24.5
100	PI/2 BPSK	270	0	22.86	22.86	22.82	
100	QPSK	1	1	23.16	23.18	23.11	24.5
100	QPSK	1	137	22.72	22.76	22.67	
100	QPSK	1	271	22.85	22.92	22.88	
100	QPSK	135	0	22.92	22.93	22.93	24.5
100	QPSK	135	69	22.76	22.79	22.77	
100	QPSK	135	138	22.78	22.79	22.78	
100	QPSK	270	0	22.76	22.85	22.85	24.5
100	16QAM	1	1	23.16	23.21	23.20	24.5
100	64QAM	1	1	23.10	23.20	23.10	24.4
100	256QAM	1	1	21.63	21.73	21.72	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.02	23.12	23.18	24.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.09	23.13	23.11	24.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.12	23.20	23.11	24.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.03	23.13	23.21	24.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.11	23.15	23.21	24.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.04	23.14	23.13	24.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.09	23.21	23.18	24.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.02	23.15	23.18	24.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.10	23.17	23.13	24.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.09	23.19	23.15	24.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.12	23.22	23.21	23.8
100	PI/2 BPSK	1	137	22.72	22.79	22.79	
100	PI/2 BPSK	1	271	22.87	22.97	22.92	
100	PI/2 BPSK	135	0	22.90	22.98	22.92	23.8
100	PI/2 BPSK	135	69	22.73	22.82	22.80	23.8
100	PI/2 BPSK	135	138	22.79	22.81	22.75	23.8
100	PI/2 BPSK	270	0	22.86	22.86	22.82	
100	QPSK	1	1	23.16	23.18	23.11	23.8
100	QPSK	1	137	22.72	22.76	22.67	
100	QPSK	1	271	22.85	22.92	22.88	
100	QPSK	135	0	22.92	22.93	22.93	23.8
100	QPSK	135	69	22.76	22.79	22.77	
100	QPSK	135	138	22.78	22.79	22.78	
100	QPSK	270	0	22.76	22.85	22.85	23.8
100	16QAM	1	1	23.16	23.21	23.20	23.8
100	64QAM	1	1	23.10	23.20	23.10	23.8
100	256QAM	1	1	21.63	21.73	21.72	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.02	23.12	23.18	23.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.09	23.13	23.11	23.8
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.12	23.20	23.11	23.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.03	23.13	23.21	23.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.11	23.15	23.21	23.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.04	23.14	23.13	23.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.09	23.21	23.18	23.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.02	23.15	23.18	23.8
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.10	23.17	23.13	23.8
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.09	23.19	23.15	23.8



<FR1 n41\_PC3\_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	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.40	16.49	16.44	17.4
100	PI/2 BPSK	1	137	16.38	16.43	16.34	
100	PI/2 BPSK	1	271	16.20	16.25	16.19	
100	PI/2 BPSK	135	0	16.45	16.45	16.43	17.4
100	PI/2 BPSK	135	69	16.41	16.42	16.41	17.4
100	PI/2 BPSK	135	138	16.25	16.32	16.29	17.4
100	PI/2 BPSK	270	0	16.35	16.38	16.34	
100	QPSK	1	1	16.40	16.47	16.38	17.4
100	QPSK	1	137	16.34	16.42	16.36	
100	QPSK	1	271	16.16	16.26	16.19	
100	QPSK	135	0	16.42	16.45	16.36	17.4
100	QPSK	135	69	16.32	16.42	16.32	
100	QPSK	135	138	16.24	16.34	16.28	
100	QPSK	270	0	16.32	16.38	16.30	17.4
100	16QAM	1	1	16.45	16.46	16.44	17.4
100	64QAM	1	1	16.38	16.46	16.40	17.4
100	256QAM	1	1	16.00	16.02	16.00	17.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.34	16.47	16.30	17.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.34	16.39	16.32	17.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.34	16.47	16.34	17.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.32	16.47	16.28	17.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.31	16.40	16.32	17.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.30	16.37	16.38	17.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.40	16.42	16.32	17.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.30	16.37	16.28	17.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	16.33	16.39	16.33	17.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	16.37	16.41	16.31	17.4



<FR1 n41\_PC3\_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	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.40	16.49	16.44	16.7
100	PI/2 BPSK	1	137	16.38	16.43	16.34	
100	PI/2 BPSK	1	271	16.20	16.25	16.19	
100	PI/2 BPSK	135	0	16.45	16.45	16.43	16.7
100	PI/2 BPSK	135	69	16.41	16.42	16.41	16.7
100	PI/2 BPSK	135	138	16.25	16.32	16.29	16.7
100	PI/2 BPSK	270	0	16.35	16.38	16.34	
100	QPSK	1	1	16.40	16.47	16.38	16.7
100	QPSK	1	137	16.34	16.42	16.36	
100	QPSK	1	271	16.16	16.26	16.19	
100	QPSK	135	0	16.42	16.45	16.36	16.7
100	QPSK	135	69	16.32	16.42	16.32	
100	QPSK	135	138	16.24	16.34	16.28	
100	QPSK	270	0	16.32	16.38	16.30	16.7
100	16QAM	1	1	16.45	16.46	16.44	16.7
100	64QAM	1	1	16.38	16.46	16.40	16.7
100	256QAM	1	1	16.00	16.02	16.00	16.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.34	16.47	16.30	16.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.34	16.39	16.32	16.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.34	16.47	16.34	16.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.32	16.47	16.28	16.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.31	16.40	16.32	16.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.30	16.37	16.38	16.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.40	16.42	16.32	16.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.30	16.37	16.28	16.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	16.33	16.39	16.33	16.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	16.37	16.41	16.31	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.56	18.57	18.54	19.4
100	PI/2 BPSK	1	137	18.33	18.42	18.36	
100	PI/2 BPSK	1	271	18.12	18.17	18.13	
100	PI/2 BPSK	135	0	18.28	18.37	18.37	19.4
100	PI/2 BPSK	135	69	18.33	18.35	18.29	19.4
100	PI/2 BPSK	135	138	18.20	18.29	18.20	19.4
100	PI/2 BPSK	270	0	18.23	18.32	18.30	
100	QPSK	1	1	18.50	18.53	18.53	19.4
100	QPSK	1	137	18.36	18.39	18.31	
100	QPSK	1	271	18.14	18.15	18.06	
100	QPSK	135	0	18.28	18.37	18.36	19.4
100	QPSK	135	69	18.28	18.35	18.29	
100	QPSK	135	138	18.16	18.25	18.19	
100	QPSK	270	0	18.26	18.32	18.24	19.4
100	16QAM	1	1	18.42	18.50	18.47	19.4
100	64QAM	1	1	18.43	18.45	18.45	19.4
100	256QAM	1	1	17.27	17.30	17.20	19.2
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.41	18.51	18.46	19.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.45	18.45	18.50	19.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.47	18.51	18.50	19.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.48	18.53	18.48	19.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.49	18.44	18.47	19.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.41	18.50	18.45	19.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.40	18.46	18.52	19.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.44	18.48	18.45	19.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.43	18.48	18.51	19.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.47	18.48	18.45	19.4



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.72	19.73	19.67	21.4
100	PI/2 BPSK	1	137	19.60	19.70	19.69	
100	PI/2 BPSK	1	271	19.53	19.62	19.54	
100	PI/2 BPSK	135	0	19.59	19.61	19.59	21.4
100	PI/2 BPSK	135	69	19.64	19.64	19.58	21.4
100	PI/2 BPSK	135	138	19.53	19.62	19.59	21.4
100	PI/2 BPSK	270	0	19.60	19.60	19.57	
100	QPSK	1	1	19.47	19.55	19.45	21.4
100	QPSK	1	137	19.55	19.63	19.57	
100	QPSK	1	271	19.38	19.45	19.43	
100	QPSK	135	0	19.40	19.47	19.41	21.4
100	QPSK	135	69	19.53	19.58	19.51	
100	QPSK	135	138	19.44	19.46	19.43	
100	QPSK	270	0	19.41	19.49	19.44	21.4
100	16QAM	1	1	19.41	19.48	19.43	21.4
100	64QAM	1	1	19.37	19.45	19.44	21.2
100	256QAM	1	1	17.41	17.42	17.40	19.2
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.69	19.67	19.59	21.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.69	19.70	19.60	21.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.66	19.72	19.63	21.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.62	19.71	19.61	21.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.67	19.68	19.58	21.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.69	19.63	19.63	21.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.71	19.63	19.67	21.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.63	19.65	19.59	21.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.69	19.67	19.66	21.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.65	19.69	19.60	21.4



<FR1 n41\_PC3\_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	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.72	19.73	19.67	20.7
100	PI/2 BPSK	1	137	19.60	19.70	19.69	
100	PI/2 BPSK	1	271	19.53	19.62	19.54	
100	PI/2 BPSK	135	0	19.59	19.61	19.59	20.7
100	PI/2 BPSK	135	69	19.64	19.64	19.58	20.7
100	PI/2 BPSK	135	138	19.53	19.62	19.59	20.7
100	PI/2 BPSK	270	0	19.60	19.60	19.57	
100	QPSK	1	1	19.47	19.55	19.45	20.7
100	QPSK	1	137	19.55	19.63	19.57	
100	QPSK	1	271	19.38	19.45	19.43	
100	QPSK	135	0	19.40	19.47	19.41	20.7
100	QPSK	135	69	19.53	19.58	19.51	
100	QPSK	135	138	19.44	19.46	19.43	
100	QPSK	270	0	19.41	19.49	19.44	20.7
100	16QAM	1	1	19.41	19.48	19.43	20.7
100	64QAM	1	1	19.37	19.45	19.44	20.7
100	256QAM	1	1	17.41	17.42	17.40	19.2
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.69	19.67	19.59	20.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.69	19.70	19.60	20.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.66	19.72	19.63	20.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.62	19.71	19.61	20.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.67	19.68	19.58	20.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.69	19.63	19.63	20.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.71	19.63	19.67	20.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.63	19.65	19.59	20.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.69	19.67	19.66	20.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.65	19.69	19.60	20.7



<FR1 n41\_PC2\_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	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.42	19.49	19.47	20.5
100	PI/2 BPSK	1	137	19.26	19.36	19.26	
100	PI/2 BPSK	1	271	19.15	19.17	19.07	
100	PI/2 BPSK	135	0	19.32	19.41	19.35	20.5
100	PI/2 BPSK	135	69	19.30	19.37	19.36	20.5
100	PI/2 BPSK	135	138	19.29	19.31	19.23	20.5
100	PI/2 BPSK	270	0	19.30	19.38	19.34	
100	QPSK	1	1	19.41	19.47	19.44	20.5
100	QPSK	1	137	19.29	19.36	19.35	
100	QPSK	1	271	19.10	19.18	19.13	
100	QPSK	135	0	19.39	19.41	19.41	20.5
100	QPSK	135	69	19.33	19.38	19.28	
100	QPSK	135	138	19.32	19.32	19.31	
100	QPSK	270	0	19.34	19.38	19.30	20.5
100	16QAM	1	1	19.41	19.48	19.40	20.5
100	64QAM	1	1	19.41	19.42	19.40	20.5
100	256QAM	1	1	18.89	18.94	18.85	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.47	19.45	19.46	20.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.42	19.36	19.39	20.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.44	19.45	19.37	20.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.42	19.36	19.42	20.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.45	19.35	19.38	20.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.42	19.42	19.46	20.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.45	19.38	19.46	20.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.42	19.41	19.46	20.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.43	19.37	19.41	20.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.40	19.38	19.39	20.5



<FR1 n41\_PC2\_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	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.42	19.49	19.47	19.8
100	PI/2 BPSK	1	137	19.26	19.36	19.26	
100	PI/2 BPSK	1	271	19.15	19.17	19.07	
100	PI/2 BPSK	135	0	19.32	19.41	19.35	19.8
100	PI/2 BPSK	135	69	19.30	19.37	19.36	19.8
100	PI/2 BPSK	135	138	19.29	19.31	19.23	19.8
100	PI/2 BPSK	270	0	19.30	19.38	19.34	
100	QPSK	1	1	19.41	19.47	19.44	19.8
100	QPSK	1	137	19.29	19.36	19.35	
100	QPSK	1	271	19.10	19.18	19.13	
100	QPSK	135	0	19.39	19.41	19.41	19.8
100	QPSK	135	69	19.33	19.38	19.28	
100	QPSK	135	138	19.32	19.32	19.31	
100	QPSK	270	0	19.34	19.38	19.30	19.8
100	16QAM	1	1	19.41	19.48	19.40	19.8
100	64QAM	1	1	19.41	19.42	19.40	19.8
100	256QAM	1	1	18.89	18.94	18.85	19.8
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.47	19.45	19.46	19.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.42	19.36	19.39	19.8
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.44	19.45	19.37	19.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.42	19.36	19.42	19.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.45	19.35	19.38	19.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.42	19.42	19.46	19.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.45	19.38	19.46	19.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.42	19.41	19.46	19.8
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.43	19.37	19.41	19.8
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.40	19.38	19.39	19.8



<FR1 n41\_PC2\_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	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.51	21.55	21.50	22.5
100	PI/2 BPSK	1	137	21.34	21.43	21.40	
100	PI/2 BPSK	1	271	21.22	21.30	21.27	
100	PI/2 BPSK	135	0	21.38	21.45	21.36	22.5
100	PI/2 BPSK	135	69	21.39	21.40	21.37	22.5
100	PI/2 BPSK	135	138	21.26	21.33	21.32	22.5
100	PI/2 BPSK	270	0	21.34	21.41	21.36	
100	QPSK	1	1	21.47	21.54	21.44	22.5
100	QPSK	1	137	21.38	21.43	21.38	
100	QPSK	1	271	21.30	21.30	21.23	
100	QPSK	135	0	21.39	21.44	21.37	22.5
100	QPSK	135	69	21.36	21.41	21.31	
100	QPSK	135	138	21.25	21.34	21.31	
100	QPSK	270	0	21.36	21.40	21.35	22.5
100	16QAM	1	1	21.45	21.54	21.54	22.5
100	64QAM	1	1	21.45	21.49	21.43	22.5
100	256QAM	1	1	20.00	20.05	20.02	22.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.47	21.50	21.44	22.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.41	21.50	21.42	22.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.40	21.46	21.37	22.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.43	21.49	21.36	22.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.41	21.45	21.42	22.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.44	21.52	21.37	22.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.42	21.48	21.39	22.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.39	21.46	21.43	22.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.43	21.48	21.43	22.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.38	21.49	21.34	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.22	23.32	23.30	24.5
100	PI/2 BPSK	1	137	23.49	23.55	23.45	
100	PI/2 BPSK	1	271	23.01	23.09	23.05	
100	PI/2 BPSK	135	0	23.46	23.46	23.45	24.5
100	PI/2 BPSK	135	69	23.47	23.49	23.40	24.5
100	PI/2 BPSK	135	138	23.29	23.32	23.30	24.5
100	PI/2 BPSK	270	0	23.39	23.46	23.41	
100	QPSK	1	1	23.27	23.32	23.30	24.5
100	QPSK	1	137	23.42	23.50	23.40	
100	QPSK	1	271	23.01	23.02	23.01	
100	QPSK	135	0	23.29	23.38	23.36	24.5
100	QPSK	135	69	23.41	23.42	23.42	
100	QPSK	135	138	23.27	23.32	23.32	
100	QPSK	270	0	23.31	23.38	23.35	24.5
100	16QAM	1	1	23.28	23.29	23.23	24.5
100	64QAM	1	1	21.63	21.73	21.64	24.0
100	256QAM	1	1	19.77	19.84	19.77	22.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.17	23.32	23.25	24.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.20	23.26	23.29	24.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.21	23.30	23.26	24.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.13	23.32	23.28	24.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.14	23.30	23.23	24.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.13	23.26	23.26	24.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.16	23.32	23.26	24.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.14	23.29	23.21	24.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.13	23.30	23.24	24.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.19	23.32	23.28	24.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.22	23.32	23.30	23.8
100	PI/2 BPSK	1	137	23.49	23.55	23.45	
100	PI/2 BPSK	1	271	23.01	23.09	23.05	
100	PI/2 BPSK	135	0	23.46	23.46	23.45	23.8
100	PI/2 BPSK	135	69	23.47	23.49	23.40	23.8
100	PI/2 BPSK	135	138	23.29	23.32	23.30	23.8
100	PI/2 BPSK	270	0	23.39	23.46	23.41	
100	QPSK	1	1	23.27	23.32	23.30	23.8
100	QPSK	1	137	23.42	23.50	23.40	
100	QPSK	1	271	23.01	23.02	23.01	
100	QPSK	135	0	23.29	23.38	23.36	23.8
100	QPSK	135	69	23.41	23.42	23.42	
100	QPSK	135	138	23.27	23.32	23.32	
100	QPSK	270	0	23.31	23.38	23.35	23.8
100	16QAM	1	1	23.28	23.29	23.23	23.8
100	64QAM	1	1	21.63	21.73	21.64	23.8
100	256QAM	1	1	19.77	19.84	19.77	22.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.17	23.32	23.25	23.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.20	23.26	23.29	23.8
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.21	23.30	23.26	23.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.13	23.32	23.28	23.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.14	23.30	23.23	23.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.13	23.26	23.26	23.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.16	23.32	23.26	23.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.14	23.29	23.21	23.8
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.13	23.30	23.24	23.8
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.19	23.32	23.28	23.8





<FR1 n41\_PC1.5\_Ant 0\_Index 2/3/5/6>

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	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.87	23.88	24.08	25.0
100	PI/2 BPSK	1	137	23.69	23.86	24.08	
100	PI/2 BPSK	1	271	23.88	24.17	24.40	
100	PI/2 BPSK	135	0	23.18	23.34	23.44	24.5
100	PI/2 BPSK	135	69	23.60	23.80	24.07	25.0
100	PI/2 BPSK	135	138	23.24	23.34	23.67	24.5
100	PI/2 BPSK	270	0	23.12	23.35	23.73	
100	QPSK	1	1	23.89	23.91	24.17	25.0
100	QPSK	1	137	23.62	23.82	23.99	
100	QPSK	1	271	23.89	24.21	24.39	
100	QPSK	135	0	22.83	22.87	23.13	25.0
100	QPSK	135	69	23.70	23.93	24.15	
100	QPSK	135	138	22.86	23.02	23.34	
100	QPSK	270	0	22.62	22.82	23.10	24.0
100	16QAM	1	1	22.97	22.89	23.11	24.0
100	64QAM	1	1	21.33	21.48	21.55	22.5
100	256QAM	1	1	19.37	19.45	19.65	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.88	23.95	24.05	25.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.93	23.81	23.93	25.0
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.96	23.94	23.99	25.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.88	23.79	23.94	25.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.97	23.94	24.10	25.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.90	23.88	24.05	25.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.89	23.75	23.92	25.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.00	23.84	24.04	25.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.97	23.89	24.00	25.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.89	23.91	23.84	25.0



<FR1 n41\_PC1.5\_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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.87	23.88	24.08	24.5
100	PI/2 BPSK	1	137	23.69	23.86	24.08	
100	PI/2 BPSK	1	271	23.88	24.17	24.40	
100	PI/2 BPSK	135	0	23.18	23.34	23.44	24.5
100	PI/2 BPSK	135	69	23.60	23.80	24.07	24.5
100	PI/2 BPSK	135	138	23.24	23.34	23.67	24.5
100	PI/2 BPSK	270	0	23.12	23.35	23.73	
100	QPSK	1	1	23.89	23.91	24.17	24.5
100	QPSK	1	137	23.62	23.82	23.99	
100	QPSK	1	271	23.89	24.21	24.39	
100	QPSK	135	0	22.83	22.87	23.13	24.5
100	QPSK	135	69	23.70	23.93	24.15	
100	QPSK	135	138	22.86	23.02	23.34	
100	QPSK	270	0	22.62	22.82	23.10	24.0
100	16QAM	1	1	22.97	22.89	23.11	24.0
100	64QAM	1	1	21.33	21.48	21.55	22.5
100	256QAM	1	1	19.37	19.45	19.65	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.88	23.95	24.05	24.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.93	23.81	23.93	24.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.96	23.94	23.99	24.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.88	23.79	23.94	24.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.97	23.94	24.10	24.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.90	23.88	24.05	24.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.89	23.75	23.92	24.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.00	23.84	24.04	24.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.97	23.89	24.00	24.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.89	23.91	23.84	24.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.24	19.30	19.22	20.4
100	PI/2 BPSK	1	137	19.05	19.12	19.04	
100	PI/2 BPSK	1	271	19.17	19.02	19.01	
100	PI/2 BPSK	135	0	19.16	19.08	19.06	20.4
100	PI/2 BPSK	135	69	19.12	19.12	19.03	20.4
100	PI/2 BPSK	135	138	19.15	19.09	19.19	20.4
100	PI/2 BPSK	270	0	19.11	19.19	19.19	
100	QPSK	1	1	19.19	19.11	19.11	20.4
100	QPSK	1	137	19.08	19.03	19.04	
100	QPSK	1	271	19.16	19.19	19.13	
100	QPSK	135	0	19.02	19.01	19.19	20.4
100	QPSK	135	69	19.04	19.01	19.11	
100	QPSK	135	138	19.10	19.16	19.17	
100	QPSK	270	0	19.13	19.03	19.18	20.4
100	16QAM	1	1	19.18	19.13	19.13	20.4
100	64QAM	1	1	19.04	19.20	19.13	20.4
100	256QAM	1	1	19.06	19.19	19.10	20.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.14	19.08	19.14	20.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.07	19.20	19.10	20.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.19	19.03	19.17	20.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.01	19.08	19.05	20.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.15	19.12	19.15	20.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.10	19.07	19.19	20.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.00	19.08	19.09	20.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.16	19.13	19.14	20.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.14	19.11	19.08	20.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.12	19.11	19.10	20.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.24	19.30	19.22	19.7
100	PI/2 BPSK	1	137	19.05	19.12	19.04	
100	PI/2 BPSK	1	271	19.17	19.02	19.01	
100	PI/2 BPSK	135	0	19.16	19.08	19.06	19.7
100	PI/2 BPSK	135	69	19.12	19.12	19.03	19.7
100	PI/2 BPSK	135	138	19.15	19.09	19.19	19.7
100	PI/2 BPSK	270	0	19.11	19.19	19.19	
100	QPSK	1	1	19.19	19.11	19.11	19.7
100	QPSK	1	137	19.08	19.03	19.04	
100	QPSK	1	271	19.16	19.19	19.13	
100	QPSK	135	0	19.02	19.01	19.19	19.7
100	QPSK	135	69	19.04	19.01	19.11	
100	QPSK	135	138	19.10	19.16	19.17	
100	QPSK	270	0	19.13	19.03	19.18	19.7
100	16QAM	1	1	19.18	19.13	19.13	19.7
100	64QAM	1	1	19.04	19.20	19.13	19.7
100	256QAM	1	1	19.06	19.19	19.10	19.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.14	19.08	19.14	19.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.07	19.20	19.10	19.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.19	19.03	19.17	19.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.01	19.08	19.05	19.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.15	19.12	19.15	19.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.10	19.07	19.19	19.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.00	19.08	19.09	19.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.16	19.13	19.14	19.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.14	19.11	19.08	19.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.12	19.11	19.10	19.7



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.51	24.55	24.50	25.3
100	PI/2 BPSK	1	137	24.66	24.70	24.70	
100	PI/2 BPSK	1	271	24.34	24.39	24.29	
100	PI/2 BPSK	135	0	24.02	24.15	24.14	24.8
100	PI/2 BPSK	135	69	24.67	24.65	24.70	25.3
100	PI/2 BPSK	135	138	24.04	24.07	24.10	24.8
100	PI/2 BPSK	270	0	24.10	24.12	24.11	
100	QPSK	1	1	24.46	24.53	24.47	25.3
100	QPSK	1	137	24.68	24.54	24.58	
100	QPSK	1	271	24.34	24.42	24.35	
100	QPSK	135	0	23.60	23.65	23.58	25.3
100	QPSK	135	69	24.67	24.53	24.62	
100	QPSK	135	138	23.62	23.58	23.57	
100	QPSK	270	0	23.65	23.64	23.63	24.3
100	16QAM	1	1	23.63	23.67	23.70	24.3
100	64QAM	1	1	22.03	22.07	22.03	22.8
100	256QAM	1	1	20.14	20.20	20.18	20.8
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.46	24.47	24.47	25.3
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.47	24.49	24.44	25.3
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.45	24.47	24.44	25.3
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.45	24.46	24.52	25.3
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.48	24.49	24.47	25.3
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.45	24.41	24.45	25.3
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.52	24.46	24.46	25.3
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.41	24.44	24.49	25.3
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.44	24.52	24.48	25.3
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.53	24.57	24.50	25.3



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.51	24.55	24.50	25.4
100	PI/2 BPSK	1	137	24.66	24.70	24.70	
100	PI/2 BPSK	1	271	24.34	24.39	24.29	
100	PI/2 BPSK	135	0	24.02	24.15	24.14	24.9
100	PI/2 BPSK	135	69	24.67	24.65	24.70	25.4
100	PI/2 BPSK	135	138	24.04	24.07	24.10	24.9
100	PI/2 BPSK	270	0	24.10	24.12	24.11	
100	QPSK	1	1	24.46	24.53	24.47	25.4
100	QPSK	1	137	24.68	24.54	24.58	
100	QPSK	1	271	24.34	24.42	24.35	
100	QPSK	135	0	23.60	23.65	23.58	25.4
100	QPSK	135	69	24.67	24.53	24.62	
100	QPSK	135	138	23.62	23.58	23.57	
100	QPSK	270	0	23.65	23.64	23.63	24.4
100	16QAM	1	1	23.63	23.67	23.70	24.4
100	64QAM	1	1	22.03	22.07	22.03	22.9
100	256QAM	1	1	20.14	20.20	20.18	20.9
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.46	24.47	24.47	25.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.47	24.49	24.44	25.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.45	24.47	24.44	25.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.45	24.46	24.52	25.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.48	24.49	24.47	25.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.45	24.41	24.45	25.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.52	24.46	24.46	25.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.41	24.44	24.49	25.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.44	24.52	24.48	25.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.53	24.57	24.50	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.67	24.64	24.68	25.4
100	PI/2 BPSK	1	137	24.34	24.40	24.35	
100	PI/2 BPSK	1	271	24.32	24.47	24.37	
100	PI/2 BPSK	135	0	24.06	24.11	24.04	24.9
100	PI/2 BPSK	135	69	24.41	24.47	24.43	25.4
100	PI/2 BPSK	135	138	23.82	23.91	23.84	24.9
100	PI/2 BPSK	270	0	23.89	23.90	23.92	
100	QPSK	1	1	24.64	24.57	24.56	25.4
100	QPSK	1	137	24.37	24.39	24.26	
100	QPSK	1	271	24.41	24.44	24.36	
100	QPSK	135	0	23.52	23.59	23.61	25.4
100	QPSK	135	69	24.37	24.48	24.44	
100	QPSK	135	138	23.55	23.60	23.64	
100	QPSK	270	0	23.34	23.40	23.38	24.4
100	16QAM	1	1	23.84	23.69	23.81	24.4
100	64QAM	1	1	22.09	22.11	22.22	22.9
100	256QAM	1	1	20.45	20.34	20.43	20.9
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.65	24.61	24.62	25.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.63	24.62	24.55	25.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.67	24.58	24.57	25.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.62	24.67	24.52	25.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.57	24.60	24.53	25.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.60	24.63	25.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.60	24.60	24.59	25.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.62	24.66	24.66	25.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.63	24.61	24.55	25.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.63	24.61	24.58	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.67	24.64	24.68	24.7
100	PI/2 BPSK	1	137	24.34	24.40	24.35	
100	PI/2 BPSK	1	271	24.32	24.47	24.37	
100	PI/2 BPSK	135	0	24.06	24.11	24.04	24.7
100	PI/2 BPSK	135	69	24.41	24.47	24.43	24.7
100	PI/2 BPSK	135	138	23.82	23.91	23.84	24.7
100	PI/2 BPSK	270	0	23.89	23.90	23.92	
100	QPSK	1	1	24.64	24.57	24.56	24.7
100	QPSK	1	137	24.37	24.39	24.26	
100	QPSK	1	271	24.41	24.44	24.36	
100	QPSK	135	0	23.52	23.59	23.61	24.7
100	QPSK	135	69	24.37	24.48	24.44	
100	QPSK	135	138	23.55	23.60	23.64	
100	QPSK	270	0	23.34	23.40	23.38	24.2
100	16QAM	1	1	23.84	23.69	23.81	24.2
100	64QAM	1	1	22.09	22.11	22.22	22.7
100	256QAM	1	1	20.45	20.34	20.43	20.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.65	24.61	24.62	24.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.63	24.62	24.55	24.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.67	24.58	24.57	24.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.62	24.67	24.52	24.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.57	24.60	24.53	24.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.60	24.63	24.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.60	24.60	24.59	24.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.62	24.66	24.66	24.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.63	24.61	24.55	24.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.63	24.61	24.58	24.7





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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.53	22.43	22.27	23.5
100	PI/2 BPSK	1	137	22.63	22.40	22.36	
100	PI/2 BPSK	1	271	22.41	22.40	22.36	
100	PI/2 BPSK	135	0	22.37	21.97	21.97	23.5
100	PI/2 BPSK	135	69	22.50	22.49	22.49	23.5
100	PI/2 BPSK	135	138	21.91	22.02	22.04	23.5
100	PI/2 BPSK	270	0	22.06	21.81	22.03	
100	QPSK	1	1	22.62	22.21	22.22	23.5
100	QPSK	1	137	22.33	22.30	22.37	
100	QPSK	1	271	22.09	21.94	21.85	
100	QPSK	135	0	21.53	21.66	21.57	23.5
100	QPSK	135	69	22.36	22.29	22.17	
100	QPSK	135	138	21.75	21.52	21.63	
100	QPSK	270	0	22.47	22.42	22.44	23.5
100	16QAM	1	1	22.50	22.50	22.30	23.5
100	64QAM	1	1	21.41	20.93	20.98	22.5
100	256QAM	1	1	19.28	19.05	18.88	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.43	22.51	22.43	23.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.49	22.44	22.53	23.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.55	22.55	22.51	23.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.56	22.40	22.45	23.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.50	22.39	22.45	23.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.43	22.45	22.41	23.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.39	22.55	22.45	23.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.46	22.45	22.40	23.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.38	22.50	22.47	23.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.44	22.52	22.41	23.5



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.53	22.43	22.27	22.8
100	PI/2 BPSK	1	137	22.63	22.40	22.36	
100	PI/2 BPSK	1	271	22.41	22.40	22.36	
100	PI/2 BPSK	135	0	22.37	21.97	21.97	22.8
100	PI/2 BPSK	135	69	22.50	22.49	22.49	22.8
100	PI/2 BPSK	135	138	21.91	22.02	22.04	22.8
100	PI/2 BPSK	270	0	22.06	21.81	22.03	
100	QPSK	1	1	22.62	22.21	22.22	22.8
100	QPSK	1	137	22.33	22.30	22.37	
100	QPSK	1	271	22.09	21.94	21.85	
100	QPSK	135	0	21.53	21.66	21.57	22.8
100	QPSK	135	69	22.36	22.29	22.17	
100	QPSK	135	138	21.75	21.52	21.63	
100	QPSK	270	0	22.47	22.42	22.44	22.8
100	16QAM	1	1	22.50	22.50	22.30	22.8
100	64QAM	1	1	21.41	20.93	20.98	22.5
100	256QAM	1	1	19.28	19.05	18.88	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.43	22.51	22.43	22.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.49	22.44	22.53	22.8
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.55	22.55	22.51	22.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.56	22.40	22.45	22.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.50	22.39	22.45	22.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.43	22.45	22.41	22.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.39	22.55	22.45	22.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.46	22.45	22.40	22.8
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.38	22.50	22.47	22.8
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.44	22.52	22.41	22.8



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.93	23.76	23.65	25.0
100	PI/2 BPSK	1	137	23.87	23.77	23.71	
100	PI/2 BPSK	1	271	23.78	23.65	23.72	
100	PI/2 BPSK	135	0	23.68	23.28	23.29	24.5
100	PI/2 BPSK	135	69	23.86	23.80	23.78	25.0
100	PI/2 BPSK	135	138	23.27	23.29	23.27	24.5
100	PI/2 BPSK	270	0	23.34	23.19	23.27	
100	QPSK	1	1	23.88	23.58	23.45	25.0
100	QPSK	1	137	23.64	23.53	23.59	
100	QPSK	1	271	23.29	23.26	23.15	
100	QPSK	135	0	22.84	22.98	22.97	25.0
100	QPSK	135	69	23.63	23.55	23.46	
100	QPSK	135	138	22.96	22.92	22.95	
100	QPSK	270	0	22.50	22.45	22.54	24.0
100	16QAM	1	1	23.05	22.68	22.44	24.0
100	64QAM	1	1	21.41	21.07	21.02	22.5
100	256QAM	1	1	19.45	19.19	19.01	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.78	23.79	23.80	25.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.90	23.78	23.67	25.0
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.80	23.93	23.77	25.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.87	23.87	23.66	25.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.90	23.89	23.64	25.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.88	23.68	23.86	25.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.84	23.79	23.74	25.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.82	23.86	23.91	25.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.85	23.80	23.81	25.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.90	23.87	23.69	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Limit		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	19.97	20.39	20.17	21.70	21.70	21.70
10	PI/2 BPSK	1	22	20.12	20.11	20.10	21.70	21.70	21.70
10	PI/2 BPSK	12	6	20.11	20.17	20.20	21.70	21.70	21.70
10	PI/2 BPSK	1	0	20.08	20.43	20.21	21.70	21.70	21.70
10	PI/2 BPSK	1	23	20.13	20.18	19.99	21.70	21.70	21.70
10	PI/2 BPSK	24	0	20.15	20.30	20.21	21.70	21.70	21.70
10	QPSK	1	1	20.26	20.32	20.24	21.70	21.70	21.70
10	QPSK	1	22	19.96	20.05	19.92	21.70	21.70	21.70
10	QPSK	12	6	20.20	20.23	20.09	21.70	21.70	21.70
10	QPSK	1	0	20.30	20.40	20.33	21.70	21.70	21.70
10	QPSK	1	23	20.09	20.11	20.08	21.70	21.70	21.70
10	QPSK	24	0	20.10	20.10	20.02	21.70	21.70	21.70
10	16QAM	1	1	19.09	20.02	19.99	21.70	21.70	21.70
10	64QAM	1	1	19.04	20.17	20.19	21.70	21.70	21.70
10	256QAM	1	1	19.56	19.66	19.61	20.50	20.50	20.50
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	20.01	20.33	20.22	21.70	21.70	21.70
15	PI/2 BPSK	1	36	20.15	20.07	20.08	21.70	21.70	21.70
15	PI/2 BPSK	18	9	20.16	20.22	20.18	21.70	21.70	21.70
15	PI/2 BPSK	1	0	20.13	20.45	20.27	21.70	21.70	21.70
15	PI/2 BPSK	1	37	20.14	20.15	20.02	21.70	21.70	21.70
15	PI/2 BPSK	36	0	20.14	20.27	20.13	21.70	21.70	21.70
15	QPSK	1	1	20.24	20.25	20.21	21.50	21.70	21.70
15	QPSK	1	36	20.02	20.00	19.94	21.70	21.70	21.50
15	QPSK	18	9	20.21	20.15	20.10	21.70	21.70	21.70
15	QPSK	1	0	20.23	20.35	20.23	21.50	21.70	21.70
15	QPSK	1	37	20.08	20.15	20.06	21.50	21.70	21.70
15	QPSK	36	0	20.09	20.05	19.99	21.50	21.70	21.70
15	16QAM	1	1	19.12	20.00	20.02	20.50	21.70	21.70
15	64QAM	1	1	19.09	20.16	20.20	20.50	21.70	21.70
15	256QAM	1	1	19.53	19.66	19.71	20.50	20.50	20.50
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	20.06	20.40	20.27	21.50	21.70	21.70
20	PI/2 BPSK	1	49	20.17	20.17	20.10	21.70	21.70	21.70
20	PI/2 BPSK	25	12	20.19	20.26	20.22	21.70	21.70	21.70
20	PI/2 BPSK	1	0	20.13	20.45	20.47	21.50	21.70	21.70
20	PI/2 BPSK	1	50	20.17	20.19	20.09	21.50	21.70	21.70
20	PI/2 BPSK	50	0	20.20	20.30	20.22	21.50	21.70	21.70
20	QPSK	1	1	20.26	20.34	20.28	21.50	21.70	21.70
20	QPSK	1	49	20.05	20.06	20.00	21.70	21.70	21.50
20	QPSK	25	12	20.22	20.23	20.13	21.70	21.70	21.70
20	QPSK	1	0	20.33	20.41	20.33	21.70	21.70	21.70
20	QPSK	1	50	20.15	20.19	20.15	21.70	21.70	21.50
20	QPSK	50	0	20.11	20.15	20.06	21.50	21.70	21.50
20	16QAM	1	1	19.13	20.09	20.02	20.50	21.70	21.70
20	64QAM	1	1	19.10	20.26	20.21	20.50	21.70	21.70
20	256QAM	1	1	19.62	19.72	19.71	20.50	20.50	20.50
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	12.61	20.47	12.64	13.00	21.70	13.00
40	PI/2 BPSK	1	104	12.42	20.25	12.64	13.00	21.70	13.00
40	PI/2 BPSK	50	25	12.61	20.33	12.75	13.00	21.70	13.00



40	PI/2 BPSK	1	0	12.60	20.48	12.67	13.00	21.70	13.00
40	PI/2 BPSK	1	105	12.41	20.26	12.62	13.00	21.70	13.00
40	PI/2 BPSK	100	0	12.61	20.31	12.71	13.00	21.70	13.00
40	QPSK	1	1	12.58	20.42	12.70	13.00	21.50	13.00
40	QPSK	1	104	12.38	20.15	12.63	13.00	21.50	13.00
40	QPSK	50	25	12.64	20.33	12.78	13.00	21.70	13.00
40	QPSK	1	0	12.62	20.42	12.69	13.00	21.50	13.00
40	QPSK	1	105	12.40	20.22	12.62	13.00	21.50	13.00
40	QPSK	100	0	12.62	20.23	12.78	13.00	20.50	13.00
40	16QAM	1	1	12.32	20.19	12.17	12.50	21.50	12.50
40	64QAM	1	1	12.13	20.31	12.16	12.50	21.50	12.50
40	256QAM	1	1	12.04	19.86	12.19	12.50	20.50	12.50

**<FR1 n48\_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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	19.97	20.39	20.17	21.00	21.00	21.00
10	PI/2 BPSK	1	22	20.12	20.11	20.10	21.00	21.00	21.00
10	PI/2 BPSK	12	6	20.11	20.17	20.20	21.00	21.00	21.00
10	PI/2 BPSK	1	0	20.08	20.43	20.21	21.00	21.00	21.00
10	PI/2 BPSK	1	23	20.13	20.18	19.99	21.00	21.00	21.00
10	PI/2 BPSK	24	0	20.15	20.30	20.21	21.00	21.00	21.00
10	QPSK	1	1	20.26	20.32	20.24	21.00	21.00	21.00
10	QPSK	1	22	19.96	20.05	19.92	21.00	21.00	21.00
10	QPSK	12	6	20.20	20.23	20.09	21.00	21.00	21.00
10	QPSK	1	0	20.30	20.40	20.33	21.00	21.00	21.00
10	QPSK	1	23	20.09	20.11	20.08	21.00	21.00	21.00
10	QPSK	24	0	20.10	20.10	20.02	21.00	21.00	21.00
10	16QAM	1	1	19.09	20.02	19.99	21.00	21.00	21.00
10	64QAM	1	1	19.04	20.17	20.19	21.00	21.00	21.00
10	256QAM	1	1	19.56	19.66	19.61	20.50	20.50	20.50
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	20.01	20.33	20.22	21.00	21.00	21.00
15	PI/2 BPSK	1	36	20.15	20.07	20.08	21.00	21.00	21.00
15	PI/2 BPSK	18	9	20.16	20.22	20.18	21.00	21.00	21.00
15	PI/2 BPSK	1	0	20.13	20.45	20.27	21.00	21.00	21.00
15	PI/2 BPSK	1	37	20.14	20.15	20.02	21.00	21.00	21.00
15	PI/2 BPSK	36	0	20.14	20.27	20.13	21.00	21.00	21.00
15	QPSK	1	1	20.24	20.25	20.21	21.00	21.00	21.00
15	QPSK	1	36	20.02	20.00	19.94	21.00	21.00	21.00
15	QPSK	18	9	20.21	20.15	20.10	21.00	21.00	21.00
15	QPSK	1	0	20.23	20.35	20.23	21.00	21.00	21.00
15	QPSK	1	37	20.08	20.15	20.06	21.00	21.00	21.00
15	QPSK	36	0	20.09	20.05	19.99	21.00	21.00	21.00
15	16QAM	1	1	19.12	20.00	20.02	20.50	21.00	21.00
15	64QAM	1	1	19.09	20.16	20.20	20.50	21.00	21.00
15	256QAM	1	1	19.53	19.66	19.71	20.50	20.50	20.50
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	20.06	20.40	20.27	21.00	21.00	21.00
20	PI/2 BPSK	1	49	20.17	20.17	20.10	21.00	21.00	21.00
20	PI/2 BPSK	25	12	20.19	20.26	20.22	21.00	21.00	21.00
20	PI/2 BPSK	1	0	20.13	20.45	20.27	21.00	21.00	21.00
20	PI/2 BPSK	1	50	20.17	20.19	20.09	21.00	21.00	21.00
20	PI/2 BPSK	50	0	20.20	20.30	20.22	21.00	21.00	21.00
20	QPSK	1	1	20.26	20.34	20.28	21.00	21.00	21.00



**FCC SAR TEST REPORT**

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20	QPSK	1	49	20.05	20.06	20.00	21.00	21.00	21.00
20	QPSK	25	12	20.22	20.23	20.13	21.00	21.00	21.00
20	QPSK	1	0	20.33	20.41	20.33	21.00	21.00	21.00
20	QPSK	1	50	20.15	20.19	20.15	21.00	21.00	21.00
20	QPSK	50	0	20.11	20.15	20.06	21.00	21.00	21.00
20	16QAM	1	1	19.13	20.09	20.02	20.50	21.00	21.00
20	64QAM	1	1	19.10	20.26	20.21	20.50	21.00	21.00
20	256QAM	1	1	19.62	19.72	19.71	20.50	20.50	20.50
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	12.61	20.47	12.64	13.00	21.00	13.00
40	PI/2 BPSK	1	104	12.42	20.25	12.64	13.00	21.00	13.00
40	PI/2 BPSK	50	25	12.61	20.33	12.75	13.00	21.00	13.00
40	PI/2 BPSK	1	0	12.60	20.48	12.67	13.00	21.00	13.00
40	PI/2 BPSK	1	105	12.41	20.26	12.62	13.00	21.00	13.00
40	PI/2 BPSK	100	0	12.61	20.31	12.71	13.00	21.00	13.00
40	QPSK	1	1	12.58	20.42	12.70	13.00	21.00	13.00
40	QPSK	1	104	12.38	20.15	12.63	13.00	21.00	13.00
40	QPSK	50	25	12.64	20.33	12.78	13.00	21.00	13.00
40	QPSK	1	0	12.62	20.42	12.69	13.00	21.00	13.00
40	QPSK	1	105	12.40	20.22	12.62	13.00	21.00	13.00
40	QPSK	100	0	12.62	20.23	12.78	13.00	20.50	13.00
40	16QAM	1	1	12.32	20.19	12.17	12.50	21.00	12.50
40	64QAM	1	1	12.13	20.31	12.16	12.50	21.00	12.50
40	256QAM	1	1	12.04	19.86	12.19	12.50	20.50	12.50

**<FR1 n48\_Ant 1\_Index 4/5/6>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Limit		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	20.95	21.25	21.39	22.50	22.50	22.50
10	PI/2 BPSK	1	22	20.92	21.41	21.37	22.50	22.50	22.50
10	PI/2 BPSK	12	6	20.98	21.41	21.36	22.50	22.50	22.50
10	PI/2 BPSK	1	0	20.94	21.26	21.38	22.50	22.50	22.50
10	PI/2 BPSK	1	23	20.91	21.39	21.35	22.50	22.50	22.50
10	PI/2 BPSK	24	0	20.98	21.41	21.34	22.50	22.50	22.50
10	QPSK	1	1	21.00	21.32	21.39	22.50	22.50	22.50
10	QPSK	1	22	20.99	21.45	21.36	22.50	22.50	22.50
10	QPSK	12	6	21.03	21.40	21.35	22.50	22.50	22.50
10	QPSK	1	0	21.00	21.32	21.38	22.50	22.50	22.50
10	QPSK	1	23	20.94	21.43	21.36	22.50	22.50	22.50
10	QPSK	24	0	21.00	21.41	21.37	22.50	22.50	22.50
10	16QAM	1	1	21.17	21.28	21.32	22.50	22.50	22.50
10	64QAM	1	1	20.86	21.28	21.52	22.50	22.50	22.50
10	256QAM	1	1	19.68	19.85	20.03	20.50	20.50	20.50
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	21.03	21.25	21.36	22.50	22.50	22.50
15	PI/2 BPSK	1	36	20.95	21.37	21.29	22.50	22.50	22.50
15	PI/2 BPSK	18	9	21.04	21.40	21.32	22.50	22.50	22.50
15	PI/2 BPSK	1	0	20.98	21.25	21.36	22.50	22.50	22.50
15	PI/2 BPSK	1	37	20.95	21.35	21.31	22.50	22.50	22.50
15	PI/2 BPSK	36	0	21.02	21.45	21.29	22.50	22.50	22.50
15	QPSK	1	1	20.15	21.24	21.33	21.50	22.50	22.50
15	QPSK	1	36	21.00	21.38	20.39	22.50	22.50	21.50
15	QPSK	18	9	21.02	21.43	21.34	22.50	22.50	22.50



15	QPSK	1	0	20.15	21.24	21.33	21.50	22.50	22.50
15	QPSK	1	37	21.01	21.37	20.36	21.50	22.50	22.50
15	QPSK	36	0	20.12	21.40	20.42	21.50	22.50	22.50
15	16QAM	1	1	19.09	21.21	21.40	20.50	22.50	22.50
15	64QAM	1	1	18.97	21.15	21.18	20.50	22.50	22.50
15	256QAM	1	1	19.50	19.82	19.88	20.50	20.50	20.50
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	20.14	21.28	21.32	21.50	22.50	22.50
20	PI/2 BPSK	1	49	21.02	21.27	21.19	22.50	22.50	22.50
20	PI/2 BPSK	25	12	21.08	21.42	21.25	22.50	22.50	22.50
20	PI/2 BPSK	1	0	20.13	21.26	21.32	21.50	22.50	22.50
20	PI/2 BPSK	1	50	20.98	21.32	21.19	21.50	22.50	22.50
20	PI/2 BPSK	50	0	20.16	21.43	21.28	21.50	22.50	22.50
20	QPSK	1	1	20.16	21.25	21.30	21.50	22.50	22.50
20	QPSK	1	49	21.08	21.33	20.35	22.50	22.50	21.50
20	QPSK	25	12	21.08	21.43	21.26	22.50	22.50	22.50
20	QPSK	1	0	20.16	21.21	21.28	22.50	22.50	22.50
20	QPSK	1	50	21.05	21.30	20.33	22.50	22.50	21.50
20	QPSK	50	0	20.18	21.44	20.34	21.50	22.50	21.50
20	16QAM	1	1	19.13	21.13	21.30	20.50	22.50	22.50
20	64QAM	1	1	19.10	21.28	21.37	20.50	22.50	22.50
20	256QAM	1	1	19.68	19.72	19.79	20.50	20.50	20.50
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	12.61	21.41	12.64	13.00	22.50	13.00
40	PI/2 BPSK	1	104	12.42	21.14	12.64	13.00	22.50	13.00
40	PI/2 BPSK	50	25	12.61	21.22	12.75	13.00	22.50	13.00
40	PI/2 BPSK	1	0	12.60	21.44	12.67	13.00	22.50	13.00
40	PI/2 BPSK	1	105	12.41	21.10	12.62	13.00	22.50	13.00
40	PI/2 BPSK	100	0	12.61	21.20	12.71	13.00	22.50	13.00
40	QPSK	1	1	12.58	20.49	12.70	13.00	21.50	13.00
40	QPSK	1	104	12.38	20.25	12.63	13.00	21.50	13.00
40	QPSK	50	25	12.64	21.23	12.78	13.00	22.50	13.00
40	QPSK	1	0	12.62	20.50	12.69	13.00	21.50	13.00
40	QPSK	1	105	12.40	20.25	12.62	13.00	21.50	13.00
40	QPSK	100	0	12.62	19.81	12.78	13.00	20.50	13.00
40	16QAM	1	1	12.32	20.62	12.17	12.50	21.50	12.50
40	64QAM	1	1	12.13	20.63	12.16	12.50	21.50	12.50
40	256QAM	1	1	12.04	19.86	12.19	12.50	20.50	12.50



**<FR1 n48\_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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	14.58	14.48	14.48	15.90	15.90	15.90
10	PI/2 BPSK	1	22	14.70	14.61	14.35	15.90	15.90	15.90
10	PI/2 BPSK	12	6	14.72	14.67	14.42	15.90	15.90	15.90
10	PI/2 BPSK	1	0	14.75	14.58	14.52	15.90	15.90	15.90
10	PI/2 BPSK	1	23	14.74	14.75	14.37	15.90	15.90	15.90
10	PI/2 BPSK	24	0	14.70	14.76	14.37	15.90	15.90	15.90
10	QPSK	1	1	14.58	14.52	14.38	15.90	15.90	15.90
10	QPSK	1	22	14.67	14.62	14.35	15.90	15.90	15.90
10	QPSK	12	6	14.64	14.60	14.34	15.90	15.90	15.90
10	QPSK	1	0	14.59	14.52	14.43	15.90	15.90	15.90
10	QPSK	1	23	14.71	14.63	14.28	15.90	15.90	15.90
10	QPSK	24	0	14.70	14.69	14.36	15.90	15.90	15.90
10	16QAM	1	1	14.57	14.49	14.49	15.90	15.90	15.90
10	64QAM	1	1	14.48	14.47	14.50	15.90	15.90	15.90
10	256QAM	1	1	14.49	14.48	14.48	15.90	15.90	15.90
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	14.48	14.43	14.46	15.90	15.90	15.90
15	PI/2 BPSK	1	36	14.65	14.53	14.27	15.90	15.90	15.90
15	PI/2 BPSK	18	9	14.65	14.65	14.41	15.90	15.90	15.90
15	PI/2 BPSK	1	0	14.65	14.50	14.51	15.90	15.90	15.90
15	PI/2 BPSK	1	37	14.68	14.65	14.34	15.90	15.90	15.90
15	PI/2 BPSK	36	0	14.70	14.72	14.30	15.90	15.90	15.90
15	QPSK	1	1	14.49	14.51	14.28	15.90	15.90	15.90
15	QPSK	1	36	14.64	14.52	14.26	15.90	15.90	15.90
15	QPSK	18	9	14.58	14.60	14.29	15.90	15.90	15.90
15	QPSK	1	0	14.58	14.45	14.34	15.90	15.90	15.90
15	QPSK	1	37	14.63	14.56	14.25	15.90	15.90	15.90
15	QPSK	36	0	14.71	14.63	14.32	15.90	15.90	15.90
15	16QAM	1	1	14.50	14.43	14.39	15.90	15.90	15.90
15	64QAM	1	1	14.42	14.43	14.50	15.90	15.90	15.90
15	256QAM	1	1	14.40	14.47	14.42	15.90	15.90	15.90
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	14.48	14.43	14.39	15.90	15.90	15.90
20	PI/2 BPSK	1	49	14.62	14.54	14.35	15.90	15.90	15.90
20	PI/2 BPSK	25	12	14.72	14.64	14.35	15.90	15.90	15.90
20	PI/2 BPSK	1	0	14.66	14.56	14.48	15.90	15.90	15.90
20	PI/2 BPSK	1	50	14.71	14.68	14.29	15.90	15.90	15.90
20	PI/2 BPSK	50	0	14.72	14.67	14.30	15.90	15.90	15.90
20	QPSK	1	1	14.54	14.43	14.29	15.90	15.90	15.90
20	QPSK	1	49	14.63	14.56	14.27	15.90	15.90	15.90
20	QPSK	25	12	14.55	14.56	14.28	15.90	15.90	15.90
20	QPSK	1	0	14.56	14.47	14.38	15.90	15.90	15.90
20	QPSK	1	50	14.61	14.54	14.26	15.90	15.90	15.90
20	QPSK	50	0	14.69	14.63	14.28	15.90	15.90	15.90
20	16QAM	1	1	14.47	14.41	14.46	15.90	15.90	15.90
20	64QAM	1	1	14.46	14.39	14.50	15.90	15.90	15.90
20	256QAM	1	1	14.39	14.48	14.44	15.90	15.90	15.90
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.46	14.92	12.92	13.50	15.90	13.50
40	PI/2 BPSK	1	104	12.89	14.58	12.98	13.50	15.90	13.50
40	PI/2 BPSK	50	25	13.32	14.74	13.05	13.50	15.90	13.50





40	PI/2 BPSK	1	0	13.46	14.95	12.89	13.50	15.90	13.50
40	PI/2 BPSK	1	105	12.89	14.61	12.98	13.50	15.90	13.50
40	PI/2 BPSK	100	0	13.32	14.74	13.02	13.50	15.90	13.50
40	QPSK	1	1	13.50	14.58	12.90	13.50	15.90	13.50
40	QPSK	1	104	12.90	14.62	12.96	13.50	15.90	13.50
40	QPSK	50	25	13.37	14.72	13.04	13.50	15.90	13.50
40	QPSK	1	0	13.50	14.61	12.89	13.50	15.90	13.50
40	QPSK	1	105	12.92	14.70	12.98	13.50	15.90	13.50
40	QPSK	100	0	13.37	14.70	13.01	13.50	15.90	13.50
40	16QAM	1	1	12.93	14.53	12.44	13.50	15.90	13.00
40	64QAM	1	1	13.03	14.57	12.48	13.50	15.90	13.00
40	256QAM	1	1	12.95	14.58	12.22	13.50	15.90	13.00

**<FR1 n48\_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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	14.58	14.48	14.48	15.20	15.20	15.20
10	PI/2 BPSK	1	22	14.70	14.61	14.35	15.20	15.20	15.20
10	PI/2 BPSK	12	6	14.72	14.67	14.42	15.20	15.20	15.20
10	PI/2 BPSK	1	0	14.75	14.58	14.52	15.20	15.20	15.20
10	PI/2 BPSK	1	23	14.74	14.75	14.37	15.20	15.20	15.20
10	PI/2 BPSK	24	0	14.70	14.76	14.37	15.20	15.20	15.20
10	QPSK	1	1	14.58	14.52	14.38	15.20	15.20	15.20
10	QPSK	1	22	14.67	14.62	14.35	15.20	15.20	15.20
10	QPSK	12	6	14.64	14.60	14.34	15.20	15.20	15.20
10	QPSK	1	0	14.59	14.52	14.43	15.20	15.20	15.20
10	QPSK	1	23	14.71	14.63	14.28	15.20	15.20	15.20
10	QPSK	24	0	14.70	14.69	14.36	15.20	15.20	15.20
10	16QAM	1	1	14.57	14.49	14.49	15.20	15.20	15.20
10	64QAM	1	1	14.48	14.47	14.50	15.20	15.20	15.20
10	256QAM	1	1	14.49	14.48	14.48	15.20	15.20	15.20
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	14.48	14.43	14.46	15.20	15.20	15.20
15	PI/2 BPSK	1	36	14.65	14.53	14.27	15.20	15.20	15.20
15	PI/2 BPSK	18	9	14.65	14.65	14.41	15.20	15.20	15.20
15	PI/2 BPSK	1	0	14.65	14.50	14.51	15.20	15.20	15.20
15	PI/2 BPSK	1	37	14.68	14.65	14.34	15.20	15.20	15.20
15	PI/2 BPSK	36	0	14.70	14.72	14.30	15.20	15.20	15.20
15	QPSK	1	1	14.49	14.51	14.28	15.20	15.20	15.20
15	QPSK	1	36	14.64	14.52	14.26	15.20	15.20	15.20
15	QPSK	18	9	14.58	14.60	14.29	15.20	15.20	15.20
15	QPSK	1	0	14.58	14.45	14.34	15.20	15.20	15.20
15	QPSK	1	37	14.63	14.56	14.25	15.20	15.20	15.20
15	QPSK	36	0	14.71	14.63	14.32	15.20	15.20	15.20
15	16QAM	1	1	14.50	14.43	14.39	15.20	15.20	15.20
15	64QAM	1	1	14.42	14.43	14.50	15.20	15.20	15.20
15	256QAM	1	1	14.40	14.47	14.42	15.20	15.20	15.20
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	14.48	14.43	14.39	15.20	15.20	15.20
20	PI/2 BPSK	1	49	14.62	14.54	14.35	15.20	15.20	15.20
20	PI/2 BPSK	25	12	14.72	14.64	14.35	15.20	15.20	15.20
20	PI/2 BPSK	1	0	14.66	14.56	14.48	15.20	15.20	15.20
20	PI/2 BPSK	1	50	14.71	14.68	14.29	15.20	15.20	15.20
20	PI/2 BPSK	50	0	14.72	14.67	14.30	15.20	15.20	15.20
20	QPSK	1	1	14.54	14.43	14.29	15.20	15.20	15.20



20	QPSK	1	49	14.63	14.56	14.27	15.20	15.20	15.20
20	QPSK	25	12	14.55	14.56	14.28	15.20	15.20	15.20
20	QPSK	1	0	14.56	14.47	14.38	15.20	15.20	15.20
20	QPSK	1	50	14.61	14.54	14.26	15.20	15.20	15.20
20	QPSK	50	0	14.69	14.63	14.28	15.20	15.20	15.20
20	16QAM	1	1	14.47	14.41	14.46	15.20	15.20	15.20
20	64QAM	1	1	14.46	14.39	14.50	15.20	15.20	15.20
20	256QAM	1	1	14.39	14.48	14.44	15.20	15.20	15.20
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.46	14.92	12.92	13.50	15.20	13.50
40	PI/2 BPSK	1	104	12.89	14.58	12.98	13.50	15.20	13.50
40	PI/2 BPSK	50	25	13.32	14.74	13.05	13.50	15.20	13.50
40	PI/2 BPSK	1	0	13.46	14.95	12.89	13.50	15.20	13.50
40	PI/2 BPSK	1	105	12.89	14.61	12.98	13.50	15.20	13.50
40	PI/2 BPSK	100	0	13.32	14.74	13.02	13.50	15.20	13.50
40	QPSK	1	1	13.50	14.58	12.90	13.50	15.20	13.50
40	QPSK	1	104	12.90	14.62	12.96	13.50	15.20	13.50
40	QPSK	50	25	13.37	14.72	13.04	13.50	15.20	13.50
40	QPSK	1	0	13.50	14.61	12.89	13.50	15.20	13.50
40	QPSK	1	105	12.92	14.70	12.98	13.50	15.20	13.50
40	QPSK	100	0	13.37	14.70	13.01	13.50	15.20	13.50
40	16QAM	1	1	12.93	14.53	12.44	13.50	15.20	13.00
40	64QAM	1	1	13.03	14.57	12.48	13.50	15.20	13.00
40	256QAM	1	1	12.95	14.58	12.22	13.50	15.20	13.00

**<FR1 n48 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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	19.77	19.68	19.60	20.30	20.30	20.30
10	PI/2 BPSK	1	22	19.87	19.87	19.44	20.30	20.30	20.30
10	PI/2 BPSK	12	6	19.86	19.77	19.54	20.30	20.30	20.30
10	PI/2 BPSK	1	0	19.79	19.71	19.59	20.30	20.30	20.30
10	PI/2 BPSK	1	23	19.86	19.80	19.46	20.30	20.30	20.30
10	PI/2 BPSK	24	0	19.86	19.78	19.55	20.30	20.30	20.30
10	QPSK	1	1	19.71	19.64	19.51	20.30	20.30	20.30
10	QPSK	1	22	19.80	19.74	19.43	20.30	20.30	20.30
10	QPSK	12	6	19.83	19.80	19.52	20.30	20.30	20.30
10	QPSK	1	0	19.78	19.76	19.57	20.30	20.30	20.30
10	QPSK	1	23	19.78	19.70	19.37	20.30	20.30	20.30
10	QPSK	24	0	19.85	19.81	19.55	20.30	20.30	20.30
10	16QAM	1	1	19.71	19.66	19.49	20.30	20.30	20.30
10	64QAM	1	1	19.81	19.76	19.34	20.30	20.30	20.30
10	256QAM	1	1	19.82	19.76	19.49	20.30	20.30	20.30
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	19.67	19.68	19.54	20.30	20.30	20.30
15	PI/2 BPSK	1	36	19.86	19.86	19.42	20.30	20.30	20.30
15	PI/2 BPSK	18	9	19.76	19.76	19.52	20.30	20.30	20.30
15	PI/2 BPSK	1	0	19.69	19.64	19.56	20.30	20.30	20.30
15	PI/2 BPSK	1	37	19.85	19.76	19.43	20.30	20.30	20.30
15	PI/2 BPSK	36	0	19.76	19.70	19.55	20.30	20.30	20.30
15	QPSK	1	1	19.64	19.58	19.48	20.30	20.30	20.30
15	QPSK	1	36	19.78	19.71	19.37	20.30	20.30	20.30
15	QPSK	18	9	19.79	19.79	19.49	20.30	20.30	20.30
15	QPSK	1	0	19.70	19.76	19.53	20.30	20.30	20.30
15	QPSK	1	37	19.71	19.69	19.31	20.30	20.30	20.30



15	QPSK	36	0	19.75	19.77	19.47	20.30	20.30	20.30
15	16QAM	1	1	19.62	19.58	19.48	20.30	20.30	20.30
15	64QAM	1	1	19.79	19.66	19.32	20.30	20.30	20.30
15	256QAM	1	1	19.74	19.70	19.43	20.30	20.30	20.30
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	19.71	19.68	19.52	20.30	20.30	20.30
20	PI/2 BPSK	1	49	19.80	19.87	19.42	20.30	20.30	20.30
20	PI/2 BPSK	25	12	19.84	19.68	19.50	20.30	20.30	20.30
20	PI/2 BPSK	1	0	19.73	19.70	19.53	20.30	20.30	20.30
20	PI/2 BPSK	1	50	19.82	19.71	19.46	20.30	20.30	20.30
20	PI/2 BPSK	50	0	19.85	19.70	19.52	20.30	20.30	20.30
20	QPSK	1	1	19.62	19.64	19.46	20.30	20.30	20.30
20	QPSK	1	49	19.71	19.71	19.37	20.30	20.30	20.30
20	QPSK	25	12	19.79	19.77	19.47	20.30	20.30	20.30
20	QPSK	1	0	19.75	19.72	19.52	20.30	20.30	20.30
20	QPSK	1	50	19.74	19.60	19.34	20.30	20.30	20.30
20	QPSK	50	0	19.79	19.71	19.49	20.30	20.30	20.30
20	16QAM	1	1	19.65	19.59	19.47	20.30	20.30	20.30
20	64QAM	1	1	19.76	19.70	19.30	20.30	20.30	20.30
20	256QAM	1	1	19.74	19.69	19.45	20.30	20.30	20.30
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.46	19.95	12.92	13.50	20.30	13.50
40	PI/2 BPSK	1	104	12.89	19.68	12.98	13.50	20.30	13.50
40	PI/2 BPSK	50	25	13.32	19.83	13.05	13.50	20.30	13.50
40	PI/2 BPSK	1	0	13.46	20.04	12.89	13.50	20.30	13.50
40	PI/2 BPSK	1	105	12.89	19.68	12.98	13.50	20.30	13.50
40	PI/2 BPSK	100	0	13.32	19.83	13.02	13.50	20.30	13.50
40	QPSK	1	1	13.50	20.02	12.90	13.50	20.30	13.50
40	QPSK	1	104	12.90	19.68	12.96	13.50	20.30	13.50
40	QPSK	50	25	13.37	19.81	13.04	13.50	20.30	13.50
40	QPSK	1	0	13.50	20.02	12.89	13.50	20.30	13.50
40	QPSK	1	105	12.92	19.68	12.98	13.50	20.30	13.50
40	QPSK	100	0	13.37	19.81	13.01	13.50	20.30	13.50
40	16QAM	1	1	12.93	19.94	12.44	13.50	20.30	13.00
40	64QAM	1	1	13.03	19.89	12.48	13.50	20.30	13.00
40	256QAM	1	1	12.95	19.91	12.22	13.50	20.30	13.00



<FR1 n48 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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	19.77	19.68	19.60	21.00	21.00	21.00
10	PI/2 BPSK	1	22	19.87	19.87	19.44	21.00	21.00	21.00
10	PI/2 BPSK	12	6	19.86	19.77	19.54	21.00	21.00	21.00
10	PI/2 BPSK	1	0	19.79	19.71	19.59	21.00	21.00	21.00
10	PI/2 BPSK	1	23	19.86	19.80	19.46	21.00	21.00	21.00
10	PI/2 BPSK	24	0	19.86	19.78	19.55	21.00	21.00	21.00
10	QPSK	1	1	19.71	19.64	19.51	21.00	21.00	21.00
10	QPSK	1	22	19.80	19.74	19.43	21.00	21.00	21.00
10	QPSK	12	6	19.83	19.80	19.52	21.00	21.00	21.00
10	QPSK	1	0	19.78	19.76	19.57	21.00	21.00	21.00
10	QPSK	1	23	19.78	19.70	19.37	21.00	21.00	21.00
10	QPSK	24	0	19.85	19.81	19.55	21.00	21.00	21.00
10	16QAM	1	1	19.71	19.66	19.49	21.00	21.00	21.00
10	64QAM	1	1	19.81	19.76	19.34	21.00	21.00	21.00
10	256QAM	1	1	19.82	19.76	19.49	21.00	20.50	21.00
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	19.67	19.68	19.54	21.00	21.00	21.00
15	PI/2 BPSK	1	36	19.86	19.86	19.42	21.00	21.00	21.00
15	PI/2 BPSK	18	9	19.76	19.76	19.52	21.00	21.00	21.00
15	PI/2 BPSK	1	0	19.69	19.64	19.56	21.00	21.00	21.00
15	PI/2 BPSK	1	37	19.85	19.76	19.43	21.00	21.00	21.00
15	PI/2 BPSK	36	0	19.76	19.70	19.55	21.00	21.00	21.00
15	QPSK	1	1	19.64	19.58	19.48	21.00	21.00	21.00
15	QPSK	1	36	19.78	19.71	19.37	21.00	21.00	21.00
15	QPSK	18	9	19.79	19.79	19.49	21.00	21.00	21.00
15	QPSK	1	0	19.70	19.76	19.53	21.00	21.00	21.00
15	QPSK	1	37	19.71	19.69	19.31	21.00	21.00	21.00
15	QPSK	36	0	19.75	19.77	19.47	21.00	21.00	21.00
15	16QAM	1	1	19.62	19.58	19.48	21.00	21.00	21.00
15	64QAM	1	1	19.79	19.66	19.32	21.00	21.00	21.00
15	256QAM	1	1	19.74	19.70	19.43	21.00	20.50	20.50
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	19.71	19.68	19.52	21.00	21.00	21.00
20	PI/2 BPSK	1	49	19.80	19.87	19.42	21.00	21.00	21.00
20	PI/2 BPSK	25	12	19.84	19.68	19.50	21.00	21.00	21.00
20	PI/2 BPSK	1	0	19.73	19.70	19.53	21.00	21.00	21.00
20	PI/2 BPSK	1	50	19.82	19.71	19.46	21.00	21.00	21.00
20	PI/2 BPSK	50	0	19.85	19.70	19.52	21.00	21.00	21.00
20	QPSK	1	1	19.62	19.64	19.46	21.00	21.00	21.00
20	QPSK	1	49	19.71	19.71	19.37	21.00	21.00	21.00
20	QPSK	25	12	19.79	19.77	19.47	21.00	21.00	21.00
20	QPSK	1	0	19.75	19.72	19.52	21.00	21.00	21.00
20	QPSK	1	50	19.74	19.60	19.34	21.00	21.00	21.00
20	QPSK	50	0	19.79	19.71	19.49	21.00	21.00	21.00
20	16QAM	1	1	19.65	19.59	19.47	20.50	21.00	21.00
20	64QAM	1	1	19.76	19.70	19.30	20.50	21.00	21.00
20	256QAM	1	1	19.74	19.69	19.45	21.00	21.00	21.00
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.46	19.95	12.92	13.50	21.00	13.50
40	PI/2 BPSK	1	104	12.89	19.68	12.98	13.50	21.00	13.50
40	PI/2 BPSK	50	25	13.32	19.83	13.05	13.50	21.00	13.50



40	PI/2 BPSK	1	0	13.46	20.04	12.89	13.50	21.00	13.50
40	PI/2 BPSK	1	105	12.89	19.68	12.98	13.50	21.00	13.50
40	PI/2 BPSK	100	0	13.32	19.83	13.02	13.50	21.00	13.50
40	QPSK	1	1	13.50	20.02	12.90	13.50	21.00	13.50
40	QPSK	1	104	12.90	19.68	12.96	13.50	21.00	13.50
40	QPSK	50	25	13.37	19.81	13.04	13.50	21.00	13.50
40	QPSK	1	0	13.50	20.02	12.89	13.50	21.00	13.50
40	QPSK	1	105	12.92	19.68	12.98	13.50	21.00	13.50
40	QPSK	100	0	13.37	19.81	13.01	13.50	21.00	13.50
40	16QAM	1	1	12.93	19.94	12.44	13.50	21.00	13.00
40	64QAM	1	1	13.03	19.89	12.48	13.50	21.00	13.00
40	256QAM	1	1	12.95	19.91	12.22	13.50	21.00	13.00

**<FR1 n48\_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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	19.77	19.68	19.60	20.30	20.30	20.30
10	PI/2 BPSK	1	22	19.87	19.87	19.44	20.30	20.30	20.30
10	PI/2 BPSK	12	6	19.86	19.77	19.54	20.30	20.30	20.30
10	PI/2 BPSK	1	0	19.79	19.71	19.59	20.30	20.30	20.30
10	PI/2 BPSK	1	23	19.86	19.80	19.46	20.30	20.30	20.30
10	PI/2 BPSK	24	0	19.86	19.78	19.55	20.30	20.30	20.30
10	QPSK	1	1	19.71	19.64	19.51	20.30	20.30	20.30
10	QPSK	1	22	19.80	19.74	19.43	20.30	20.30	20.30
10	QPSK	12	6	19.83	19.80	19.52	20.30	20.30	20.30
10	QPSK	1	0	19.78	19.76	19.57	20.30	20.30	20.30
10	QPSK	1	23	19.78	19.70	19.37	20.30	20.30	20.30
10	QPSK	24	0	19.85	19.81	19.55	20.30	20.30	20.30
10	16QAM	1	1	19.71	19.66	19.49	20.30	20.30	20.30
10	64QAM	1	1	19.81	19.76	19.34	20.30	20.30	20.30
10	256QAM	1	1	19.82	19.76	19.49	20.30	20.30	20.30
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	19.67	19.68	19.54	20.30	20.30	20.30
15	PI/2 BPSK	1	36	19.86	19.86	19.42	20.30	20.30	20.30
15	PI/2 BPSK	18	9	19.76	19.76	19.52	20.30	20.30	20.30
15	PI/2 BPSK	1	0	19.69	19.64	19.56	20.30	20.30	20.30
15	PI/2 BPSK	1	37	19.85	19.76	19.43	20.30	20.30	20.30
15	PI/2 BPSK	36	0	19.76	19.70	19.55	20.30	20.30	20.30
15	QPSK	1	1	19.64	19.58	19.48	20.30	20.30	20.30
15	QPSK	1	36	19.78	19.71	19.37	20.30	20.30	20.30
15	QPSK	18	9	19.79	19.79	19.49	20.30	20.30	20.30
15	QPSK	1	0	19.70	19.76	19.53	20.30	20.30	20.30
15	QPSK	1	37	19.71	19.69	19.31	20.30	20.30	20.30
15	QPSK	36	0	19.75	19.77	19.47	20.30	20.30	20.30
15	16QAM	1	1	19.62	19.58	19.48	20.30	20.30	20.30
15	64QAM	1	1	19.79	19.66	19.32	20.30	20.30	20.30
15	256QAM	1	1	19.74	19.70	19.43	20.30	20.30	20.30
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	19.71	19.68	19.52	20.30	20.30	20.30
20	PI/2 BPSK	1	49	19.80	19.87	19.42	20.30	20.30	20.30
20	PI/2 BPSK	25	12	19.84	19.68	19.50	20.30	20.30	20.30
20	PI/2 BPSK	1	0	19.73	19.70	19.53	20.30	20.30	20.30
20	PI/2 BPSK	1	50	19.82	19.71	19.46	20.30	20.30	20.30
20	PI/2 BPSK	50	0	19.85	19.70	19.52	20.30	20.30	20.30
20	QPSK	1	1	19.62	19.64	19.46	20.30	20.30	20.30



20	QPSK	1	49	19.71	19.71	19.37	20.30	20.30	20.30
20	QPSK	25	12	19.79	19.77	19.47	20.30	20.30	20.30
20	QPSK	1	0	19.75	19.72	19.52	20.30	20.30	20.30
20	QPSK	1	50	19.74	19.60	19.34	20.30	20.30	20.30
20	QPSK	50	0	19.79	19.71	19.49	20.30	20.30	20.30
20	16QAM	1	1	19.65	19.59	19.47	20.30	20.30	20.30
20	64QAM	1	1	19.76	19.70	19.30	20.30	20.30	20.30
20	256QAM	1	1	19.74	19.69	19.45	20.30	20.30	20.30
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.46	19.95	12.92	13.50	20.30	13.50
40	PI/2 BPSK	1	104	12.89	19.68	12.98	13.50	20.30	13.50
40	PI/2 BPSK	50	25	13.32	19.83	13.05	13.50	20.30	13.50
40	PI/2 BPSK	1	0	13.46	20.04	12.89	13.50	20.30	13.50
40	PI/2 BPSK	1	105	12.89	19.68	12.98	13.50	20.30	13.50
40	PI/2 BPSK	100	0	13.32	19.83	13.02	13.50	20.30	13.50
40	QPSK	1	1	13.50	20.02	12.90	13.50	20.30	13.50
40	QPSK	1	104	12.90	19.68	12.96	13.50	20.30	13.50
40	QPSK	50	25	13.37	19.81	13.04	13.50	20.30	13.50
40	QPSK	1	0	13.50	20.02	12.89	13.50	20.30	13.50
40	QPSK	1	105	12.92	19.68	12.98	13.50	20.30	13.50
40	QPSK	100	0	13.37	19.81	13.01	13.50	20.30	13.50
40	16QAM	1	1	12.93	19.94	12.44	13.50	20.30	13.00
40	64QAM	1	1	13.03	19.89	12.48	13.50	20.30	13.00
40	256QAM	1	1	12.95	19.91	12.22	13.50	20.30	13.00

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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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	21.31	21.66	21.45	22.50	22.50	22.50
10	PI/2 BPSK	1	22	21.19	21.56	21.39	22.50	22.50	22.50
10	PI/2 BPSK	12	6	21.21	21.56	21.44	22.50	22.50	22.50
10	PI/2 BPSK	1	0	21.30	21.60	21.46	22.50	22.50	22.50
10	PI/2 BPSK	1	23	21.20	21.55	21.42	22.50	22.50	22.50
10	PI/2 BPSK	24	0	21.23	21.54	21.43	22.50	22.50	22.50
10	QPSK	1	1	21.32	21.62	21.54	22.50	22.50	22.50
10	QPSK	1	22	21.18	21.52	21.46	22.50	22.50	22.50
10	QPSK	12	6	21.22	21.54	21.44	22.50	22.50	22.50
10	QPSK	1	0	21.36	21.59	21.50	22.50	22.50	22.50
10	QPSK	1	23	21.23	21.54	21.41	22.50	22.50	22.50
10	QPSK	24	0	21.21	21.51	21.44	22.50	22.50	22.50
10	16QAM	1	1	21.24	21.63	21.46	22.50	22.50	22.50
10	64QAM	1	1	21.32	21.52	21.30	22.50	22.50	22.50
10	256QAM	1	1	19.99	19.93	20.03	20.50	20.50	20.50
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	21.36	21.57	21.36	22.50	22.50	22.50
15	PI/2 BPSK	1	36	21.26	21.55	21.33	22.50	22.50	22.50
15	PI/2 BPSK	18	9	21.30	21.55	21.42	22.50	22.50	22.50
15	PI/2 BPSK	1	0	21.37	21.55	21.36	22.50	22.50	22.50
15	PI/2 BPSK	1	37	21.23	21.50	21.33	22.50	22.50	22.50
15	PI/2 BPSK	36	0	21.28	21.57	21.39	22.50	22.50	22.50
15	QPSK	1	1	20.48	21.62	21.42	21.50	22.50	22.50
15	QPSK	1	36	21.21	21.52	20.46	22.50	22.50	21.50
15	QPSK	18	9	21.29	21.53	21.43	22.50	22.50	22.50
15	QPSK	1	0	20.48	21.58	21.40	21.50	22.50	22.50
15	QPSK	1	37	21.21	21.52	20.45	22.50	22.50	21.50



15	QPSK	36	0	20.40	21.54	20.52	21.50	22.50	21.50
15	16QAM	1	1	19.50	21.61	21.36	20.50	22.50	22.50
15	64QAM	1	1	19.50	21.58	21.38	20.50	22.50	22.50
15	256QAM	1	1	19.89	20.03	19.90	20.50	20.50	20.50
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	20.49	21.54	21.34	21.50	22.50	22.50
20	PI/2 BPSK	1	49	21.24	21.63	21.27	22.50	22.50	22.50
20	PI/2 BPSK	25	12	21.34	21.55	21.39	22.50	22.50	22.50
20	PI/2 BPSK	1	0	20.52	21.58	21.32	22.50	22.50	22.50
20	PI/2 BPSK	1	50	21.20	21.63	21.26	22.50	22.50	22.50
20	PI/2 BPSK	50	0	20.42	21.53	21.37	21.50	22.50	22.50
20	QPSK	1	1	20.53	21.59	21.38	21.50	22.50	22.50
20	QPSK	1	49	21.28	21.60	20.39	22.50	22.50	22.50
20	QPSK	25	12	21.36	21.54	21.40	22.50	22.50	22.50
20	QPSK	1	0	20.54	21.59	21.37	21.50	22.50	22.50
20	QPSK	1	50	21.25	21.60	20.36	22.50	22.50	21.50
20	QPSK	50	0	20.43	21.53	20.49	21.50	22.50	21.50
20	16QAM	1	1	19.58	21.57	21.30	20.50	22.50	22.50
20	64QAM	1	1	19.50	21.53	21.47	20.50	22.50	22.50
20	256QAM	1	1	20.03	20.11	19.80	20.50	20.50	20.50
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	12.76	21.42	12.75	13.00	22.50	13.00
40	PI/2 BPSK	1	104	12.60	21.42	12.37	13.00	22.50	13.00
40	PI/2 BPSK	50	25	12.70	21.56	12.52	13.00	22.50	13.00
40	PI/2 BPSK	1	0	12.77	21.44	12.72	13.00	22.50	13.00
40	PI/2 BPSK	1	105	12.61	21.42	12.42	13.00	22.50	13.00
40	PI/2 BPSK	100	0	12.68	21.58	12.56	13.00	22.50	13.00
40	QPSK	1	1	12.75	20.51	12.75	13.00	21.50	13.00
40	QPSK	1	104	12.59	20.52	12.34	13.00	21.50	13.00
40	QPSK	50	25	12.68	21.56	12.93	13.00	22.50	13.00
40	QPSK	1	0	12.67	20.52	12.70	13.00	21.50	13.00
40	QPSK	1	105	12.61	20.53	12.32	13.00	21.50	13.00
40	QPSK	100	0	12.68	20.16	12.54	13.00	21.50	13.00
40	16QAM	1	1	12.23	20.56	12.23	13.00	21.50	13.00
40	64QAM	1	1	12.16	20.58	12.19	13.00	21.50	13.00
40	256QAM	1	1	12.31	20.07	12.10	13.00	21.50	13.00

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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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	18.30	18.21	18.25	18.70	18.70	18.70
10	PI/2 BPSK	1	22	18.25	18.30	18.15	18.70	18.70	18.70
10	PI/2 BPSK	12	6	18.21	18.24	18.01	18.70	18.70	18.70
10	PI/2 BPSK	1	0	18.20	18.28	18.11	18.70	18.70	18.70
10	PI/2 BPSK	1	23	18.16	18.21	18.09	18.70	18.70	18.70
10	PI/2 BPSK	24	0	18.19	18.23	18.12	18.70	18.70	18.70
10	QPSK	1	1	18.26	18.23	18.21	18.70	18.70	18.70
10	QPSK	1	22	18.25	18.24	18.21	18.70	18.70	18.70
10	QPSK	12	6	18.28	18.26	18.21	18.70	18.70	18.70
10	QPSK	1	0	18.28	18.22	18.22	18.70	18.70	18.70
10	QPSK	1	23	18.21	18.27	18.21	18.70	18.70	18.70
10	QPSK	24	0	18.21	18.27	18.24	18.70	18.70	18.70
10	16QAM	1	1	18.23	18.27	18.22	18.70	18.70	18.70
10	64QAM	1	1	18.26	18.20	18.20	18.70	18.70	18.70
10	256QAM	1	1	18.26	18.03	18.22	18.70	18.70	18.70





Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	18.19	18.23	18.23	18.70	18.70	18.70
15	PI/2 BPSK	1	36	18.25	18.20	18.22	18.70	18.70	18.70
15	PI/2 BPSK	18	9	18.24	18.19	18.19	18.70	18.70	18.70
15	PI/2 BPSK	1	0	18.22	18.23	18.19	18.70	18.70	18.70
15	PI/2 BPSK	1	37	18.25	18.22	18.23	18.70	18.70	18.70
15	PI/2 BPSK	36	0	18.23	18.20	18.19	18.70	18.70	18.70
15	QPSK	1	1	18.22	18.18	18.22	18.70	18.70	18.70
15	QPSK	1	36	18.18	18.19	18.20	18.70	18.70	18.70
15	QPSK	18	9	18.20	18.18	18.17	18.70	18.70	18.70
15	QPSK	1	0	18.22	18.21	18.24	18.70	18.70	18.70
15	QPSK	1	37	18.19	18.20	18.19	18.70	18.70	18.70
15	QPSK	36	0	18.19	18.20	18.24	18.70	18.70	18.70
15	16QAM	1	1	18.25	18.20	18.23	18.70	18.70	18.70
15	64QAM	1	1	18.20	18.23	18.17	18.70	18.70	18.70
15	256QAM	1	1	18.23	17.98	18.25	18.70	18.70	18.70
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	18.13	18.23	18.09	18.70	18.70	18.70
20	PI/2 BPSK	1	49	18.16	18.30	18.14	18.70	18.70	18.70
20	PI/2 BPSK	25	12	18.08	18.24	18.15	18.70	18.70	18.70
20	PI/2 BPSK	1	0	18.08	18.25	18.11	18.70	18.70	18.70
20	PI/2 BPSK	1	50	18.15	18.23	18.10	18.70	18.70	18.70
20	PI/2 BPSK	50	0	18.15	18.19	18.14	18.70	18.70	18.70
20	QPSK	1	1	18.14	18.24	18.10	18.70	18.70	18.70
20	QPSK	1	49	18.11	18.29	18.12	18.70	18.70	18.70
20	QPSK	25	12	18.06	18.25	18.11	18.70	18.70	18.70
20	QPSK	1	0	18.11	18.19	18.15	18.70	18.70	18.70
20	QPSK	1	50	18.13	18.27	18.11	18.70	18.70	18.70
20	QPSK	50	0	18.14	18.28	18.12	18.70	18.70	18.70
20	16QAM	1	1	18.07	18.24	18.08	18.70	18.70	18.70
20	64QAM	1	1	18.14	18.24	18.13	18.70	18.70	18.70
20	256QAM	1	1	18.16	18.06	18.12	18.70	18.70	18.70
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	12.76	18.61	12.75	13.00	18.70	13.00
40	PI/2 BPSK	1	104	12.60	18.30	12.37	13.00	18.70	13.00
40	PI/2 BPSK	50	25	12.70	18.27	12.52	13.00	18.70	13.00
40	PI/2 BPSK	1	0	12.77	18.60	12.72	13.00	18.70	13.00
40	PI/2 BPSK	1	105	12.61	18.32	12.42	13.00	18.70	13.00
40	PI/2 BPSK	100	0	12.68	18.29	12.56	13.00	18.70	13.00
40	QPSK	1	1	12.75	18.32	12.75	13.00	18.70	13.00
40	QPSK	1	104	12.59	18.20	12.34	13.00	18.70	13.00
40	QPSK	50	25	12.68	18.32	12.93	13.00	18.70	13.00
40	QPSK	1	0	12.67	18.19	12.70	13.00	18.70	13.00
40	QPSK	1	105	12.61	18.22	12.32	13.00	18.70	13.00
40	QPSK	100	0	12.68	18.25	12.54	13.00	18.70	13.00
40	16QAM	1	1	12.23	18.29	12.23	13.00	18.70	13.00
40	64QAM	1	1	12.16	18.31	12.19	13.00	18.70	13.00
40	256QAM	1	1	12.31	18.22	12.10	13.00	18.70	13.00





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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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	18.30	18.21	18.25	19.70	19.70	19.70
10	PI/2 BPSK	1	22	18.25	18.30	18.15	19.70	19.70	19.70
10	PI/2 BPSK	12	6	18.21	18.24	18.01	19.70	19.70	19.70
10	PI/2 BPSK	1	0	18.20	18.28	18.11	19.70	19.70	19.70
10	PI/2 BPSK	1	23	18.16	18.21	18.09	19.70	19.70	19.70
10	PI/2 BPSK	24	0	18.19	18.23	18.12	19.70	19.70	19.70
10	QPSK	1	1	18.26	18.23	18.21	19.70	19.70	19.70
10	QPSK	1	22	18.25	18.24	18.21	19.70	19.70	19.70
10	QPSK	12	6	18.28	18.26	18.21	19.70	19.70	19.70
10	QPSK	1	0	18.28	18.22	18.22	19.70	19.70	19.70
10	QPSK	1	23	18.21	18.27	18.21	19.70	19.70	19.70
10	QPSK	24	0	18.21	18.27	18.24	19.70	19.70	19.70
10	16QAM	1	1	18.23	18.27	18.22	19.70	19.70	19.70
10	64QAM	1	1	18.26	18.20	18.20	19.70	19.70	19.70
10	256QAM	1	1	18.26	18.03	18.22	19.70	19.70	19.70
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	18.19	18.23	18.23	19.70	19.70	19.70
15	PI/2 BPSK	1	36	18.25	18.20	18.22	19.70	19.70	19.70
15	PI/2 BPSK	18	9	18.24	18.19	18.19	19.70	19.70	19.70
15	PI/2 BPSK	1	0	18.22	18.23	18.19	19.70	19.70	19.70
15	PI/2 BPSK	1	37	18.25	18.22	18.23	19.70	19.70	19.70
15	PI/2 BPSK	36	0	18.23	18.20	18.19	19.70	19.70	19.70
15	QPSK	1	1	18.22	18.18	18.22	19.70	19.70	19.70
15	QPSK	1	36	18.18	18.19	18.20	19.70	19.70	19.70
15	QPSK	18	9	18.20	18.18	18.17	19.70	19.70	19.70
15	QPSK	1	0	18.22	18.21	18.24	19.70	19.70	19.70
15	QPSK	1	37	18.19	18.20	18.19	19.70	19.70	19.70
15	QPSK	36	0	18.19	18.20	18.24	19.70	19.70	19.70
15	16QAM	1	1	18.25	18.20	18.23	19.70	19.70	19.70
15	64QAM	1	1	18.20	18.23	18.17	19.70	19.70	19.70
15	256QAM	1	1	18.23	17.98	18.25	19.70	19.70	19.70
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	18.13	18.23	18.09	19.70	19.70	19.70
20	PI/2 BPSK	1	49	18.16	18.30	18.14	19.70	19.70	19.70
20	PI/2 BPSK	25	12	18.08	18.24	18.15	19.70	19.70	19.70
20	PI/2 BPSK	1	0	18.08	18.25	18.11	19.70	19.70	19.70
20	PI/2 BPSK	1	50	18.15	18.23	18.10	19.70	19.70	19.70
20	PI/2 BPSK	50	0	18.15	18.19	18.14	19.70	19.70	19.70
20	QPSK	1	1	18.14	18.24	18.10	19.70	19.70	19.70
20	QPSK	1	49	18.11	18.29	18.12	19.70	19.70	19.70
20	QPSK	25	12	18.06	18.25	18.11	19.70	19.70	19.70
20	QPSK	1	0	18.11	18.19	18.15	19.70	19.70	19.70
20	QPSK	1	50	18.13	18.27	18.11	19.70	19.70	19.70
20	QPSK	50	0	18.14	18.28	18.12	19.70	19.70	19.70
20	16QAM	1	1	18.07	18.24	18.08	19.70	19.70	19.70
20	64QAM	1	1	18.14	18.24	18.13	19.70	19.70	19.70
20	256QAM	1	1	18.16	18.06	18.12	19.70	19.70	19.70
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	12.76	18.61	12.75	13.00	19.70	13.00
40	PI/2 BPSK	1	104	12.60	18.30	12.37	13.00	19.70	13.00
40	PI/2 BPSK	50	25	12.70	18.27	12.52	13.00	19.70	13.00



40	PI/2 BPSK	1	0	12.77	18.60	12.72	13.00	19.70	13.00
40	PI/2 BPSK	1	105	12.61	18.32	12.42	13.00	19.70	13.00
40	PI/2 BPSK	100	0	12.68	18.29	12.56	13.00	19.70	13.00
40	QPSK	1	1	12.75	18.32	12.75	13.00	19.70	13.00
40	QPSK	1	104	12.59	18.20	12.34	13.00	19.70	13.00
40	QPSK	50	25	12.68	18.32	12.93	13.00	19.70	13.00
40	QPSK	1	0	12.67	18.19	12.70	13.00	19.70	13.00
40	QPSK	1	105	12.61	18.22	12.32	13.00	19.70	13.00
40	QPSK	100	0	12.68	18.25	12.54	13.00	19.70	13.00
40	16QAM	1	1	12.23	18.29	12.23	13.00	19.70	13.00
40	64QAM	1	1	12.16	18.31	12.19	13.00	19.70	13.00
40	256QAM	1	1	12.31	18.22	12.10	13.00	19.70	13.00

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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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	18.30	18.21	18.25	19.00	19.00	19.00
10	PI/2 BPSK	1	22	18.25	18.30	18.15	19.00	19.00	19.00
10	PI/2 BPSK	12	6	18.21	18.24	18.01	19.00	19.00	19.00
10	PI/2 BPSK	1	0	18.20	18.28	18.11	19.00	19.00	19.00
10	PI/2 BPSK	1	23	18.16	18.21	18.09	19.00	19.00	19.00
10	PI/2 BPSK	24	0	18.19	18.23	18.12	19.00	19.00	19.00
10	QPSK	1	1	18.26	18.23	18.21	19.00	19.00	19.00
10	QPSK	1	22	18.25	18.24	18.21	19.00	19.00	19.00
10	QPSK	12	6	18.28	18.26	18.21	19.00	19.00	19.00
10	QPSK	1	0	18.28	18.22	18.22	19.00	19.00	19.00
10	QPSK	1	23	18.21	18.27	18.21	19.00	19.00	19.00
10	QPSK	24	0	18.21	18.27	18.24	19.00	19.00	19.00
10	16QAM	1	1	18.23	18.27	18.22	19.00	19.00	19.00
10	64QAM	1	1	18.26	18.20	18.20	19.00	19.00	19.00
10	256QAM	1	1	18.26	18.03	18.22	19.00	19.00	19.00
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	18.19	18.23	18.23	19.00	19.00	19.00
15	PI/2 BPSK	1	36	18.25	18.20	18.22	19.00	19.00	19.00
15	PI/2 BPSK	18	9	18.24	18.19	18.19	19.00	19.00	19.00
15	PI/2 BPSK	1	0	18.22	18.23	18.19	19.00	19.00	19.00
15	PI/2 BPSK	1	37	18.25	18.22	18.23	19.00	19.00	19.00
15	PI/2 BPSK	36	0	18.23	18.20	18.19	19.00	19.00	19.00
15	QPSK	1	1	18.22	18.18	18.22	19.00	19.00	19.00
15	QPSK	1	36	18.18	18.19	18.20	19.00	19.00	19.00
15	QPSK	18	9	18.20	18.18	18.17	19.00	19.00	19.00
15	QPSK	1	0	18.22	18.21	18.24	19.00	19.00	19.00
15	QPSK	1	37	18.19	18.20	18.19	19.00	19.00	19.00
15	QPSK	36	0	18.19	18.20	18.24	19.00	19.00	19.00
15	16QAM	1	1	18.25	18.20	18.23	19.00	19.00	19.00
15	64QAM	1	1	18.20	18.23	18.17	19.00	19.00	19.00
15	256QAM	1	1	18.23	17.98	18.25	19.00	19.00	19.00
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	18.13	18.23	18.09	19.00	19.00	19.00
20	PI/2 BPSK	1	49	18.16	18.30	18.14	19.00	19.00	19.00
20	PI/2 BPSK	25	12	18.08	18.24	18.15	19.00	19.00	19.00
20	PI/2 BPSK	1	0	18.08	18.25	18.11	19.00	19.00	19.00
20	PI/2 BPSK	1	50	18.15	18.23	18.10	19.00	19.00	19.00
20	PI/2 BPSK	50	0	18.15	18.19	18.14	19.00	19.00	19.00
20	QPSK	1	1	18.14	18.24	18.10	19.00	19.00	19.00



20	QPSK	1	49	18.11	18.29	18.12	19.00	19.00	19.00
20	QPSK	25	12	18.06	18.25	18.11	19.00	19.00	19.00
20	QPSK	1	0	18.11	18.19	18.15	19.00	19.00	19.00
20	QPSK	1	50	18.13	18.27	18.11	19.00	19.00	19.00
20	QPSK	50	0	18.14	18.28	18.12	19.00	19.00	19.00
20	16QAM	1	1	18.07	18.24	18.08	19.00	19.00	19.00
20	64QAM	1	1	18.14	18.24	18.13	19.00	19.00	19.00
20	256QAM	1	1	18.16	18.06	18.12	19.00	19.00	19.00
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	12.76	18.61	12.75	13.00	19.00	13.00
40	PI/2 BPSK	1	104	12.60	18.30	12.37	13.00	19.00	13.00
40	PI/2 BPSK	50	25	12.70	18.27	12.52	13.00	19.00	13.00
40	PI/2 BPSK	1	0	12.77	18.60	12.72	13.00	19.00	13.00
40	PI/2 BPSK	1	105	12.61	18.32	12.42	13.00	19.00	13.00
40	PI/2 BPSK	100	0	12.68	18.29	12.56	13.00	19.00	13.00
40	QPSK	1	1	12.75	18.32	12.75	13.00	19.00	13.00
40	QPSK	1	104	12.59	18.20	12.34	13.00	19.00	13.00
40	QPSK	50	25	12.68	18.32	12.93	13.00	19.00	13.00
40	QPSK	1	0	12.67	18.19	12.70	13.00	19.00	13.00
40	QPSK	1	105	12.61	18.22	12.32	13.00	19.00	13.00
40	QPSK	100	0	12.68	18.25	12.54	13.00	19.00	13.00
40	16QAM	1	1	12.23	18.29	12.23	13.00	19.00	13.00
40	64QAM	1	1	12.16	18.31	12.19	13.00	19.00	13.00
40	256QAM	1	1	12.31	18.22	12.10	13.00	19.00	13.00

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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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	22.27	22.47	22.31	24.00	24.00	24.00
10	PI/2 BPSK	1	22	22.15	22.38	22.25	24.00	24.00	24.00
10	PI/2 BPSK	12	6	22.20	22.47	22.28	24.00	24.00	24.00
10	PI/2 BPSK	1	0	22.26	22.46	22.32	24.00	24.00	24.00
10	PI/2 BPSK	1	23	22.14	22.38	22.20	24.00	24.00	24.00
10	PI/2 BPSK	24	0	22.19	22.44	22.29	24.00	24.00	24.00
10	QPSK	1	1	22.27	22.52	22.38	24.00	24.00	24.00
10	QPSK	1	22	22.20	22.43	22.31	24.00	24.00	24.00
10	QPSK	12	6	22.17	22.42	22.30	24.00	24.00	24.00
10	QPSK	1	0	22.32	22.44	22.35	24.00	24.00	24.00
10	QPSK	1	23	22.21	22.42	22.29	24.00	24.00	24.00
10	QPSK	24	0	22.20	22.42	22.31	24.00	24.00	24.00
10	16QAM	1	1	22.26	22.68	22.30	23.50	23.50	23.50
10	64QAM	1	1	22.09	22.28	22.21	23.50	23.50	23.50
10	256QAM	1	1	19.81	20.12	20.06	21.50	21.50	21.50
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	22.33	22.48	22.24	24.00	24.00	24.00
15	PI/2 BPSK	1	36	22.21	22.36	22.20	24.00	24.00	24.00
15	PI/2 BPSK	18	9	22.28	22.46	22.29	24.00	24.00	24.00
15	PI/2 BPSK	1	0	22.33	22.50	22.28	24.00	24.00	24.00
15	PI/2 BPSK	1	37	22.18	22.37	22.21	24.00	24.00	24.00
15	PI/2 BPSK	36	0	22.26	22.45	22.31	24.00	24.00	24.00
15	QPSK	1	1	20.62	22.48	22.30	21.50	24.00	24.00
15	QPSK	1	36	22.19	22.39	20.56	24.00	24.00	21.50
15	QPSK	18	9	22.26	22.46	22.30	24.00	24.00	24.00
15	QPSK	1	0	20.60	22.48	22.29	21.50	24.00	24.00
15	QPSK	1	37	22.15	22.38	20.58	24.00	24.00	21.50



15	QPSK	36	0	20.56	22.46	20.61	21.50	24.00	21.50
15	16QAM	1	1	19.61	22.40	22.15	20.50	23.50	23.50
15	64QAM	1	1	19.77	22.41	22.03	20.50	23.50	23.50
15	256QAM	1	1	20.22	20.25	20.14	21.50	21.50	21.50
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	20.68	22.50	22.24	21.50	24.00	24.00
20	PI/2 BPSK	1	49	22.23	22.54	22.19	24.00	24.00	24.00
20	PI/2 BPSK	25	12	22.31	22.50	22.29	24.00	24.00	24.00
20	PI/2 BPSK	1	0	20.65	22.48	22.25	21.50	24.00	24.00
20	PI/2 BPSK	1	50	22.23	22.57	22.17	24.00	24.00	24.00
20	PI/2 BPSK	50	0	20.64	22.47	22.29	21.50	24.00	24.00
20	QPSK	1	1	20.71	22.50	22.26	21.50	24.00	24.00
20	QPSK	1	49	22.26	22.56	20.48	24.00	24.00	21.56
20	QPSK	25	12	22.33	22.51	22.32	24.00	24.00	24.00
20	QPSK	1	0	20.74	22.52	22.24	21.50	24.00	24.00
20	QPSK	1	50	22.27	22.56	20.47	24.00	24.00	21.50
20	QPSK	50	0	20.64	22.48	20.58	21.50	24.00	21.50
20	16QAM	1	1	19.85	22.51	22.42	20.50	23.50	23.50
20	64QAM	1	1	19.79	22.41	22.05	20.50	23.50	23.50
20	256QAM	1	1	20.10	20.33	20.02	21.50	21.50	21.50
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.22	22.33	13.16	13.50	24.00	13.50
40	PI/2 BPSK	1	104	13.02	22.30	12.87	13.50	24.00	13.50
40	PI/2 BPSK	50	25	13.10	22.52	13.02	13.50	24.00	13.50
40	PI/2 BPSK	1	0	13.19	22.31	13.20	13.50	24.00	13.50
40	PI/2 BPSK	1	105	13.00	22.32	12.83	13.50	24.00	13.50
40	PI/2 BPSK	100	0	13.13	22.50	13.01	13.50	24.00	13.50
40	QPSK	1	1	13.24	20.69	13.20	13.50	21.50	13.50
40	QPSK	1	104	13.02	20.67	12.86	13.50	21.50	13.50
40	QPSK	50	25	13.16	22.54	13.04	13.50	24.00	13.50
40	QPSK	1	0	13.25	20.68	13.23	13.50	21.50	13.50
40	QPSK	1	105	13.01	20.63	12.87	13.50	21.50	13.50
40	QPSK	100	0	13.14	20.29	13.02	13.50	21.50	13.50
40	16QAM	1	1	12.72	20.69	12.71	13.00	21.50	13.00
40	64QAM	1	1	12.76	20.62	12.73	13.00	21.50	13.00
40	256QAM	1	1	12.73	20.08	12.75	13.00	21.50	13.00

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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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	19.28	19.26	18.90	20.10	20.10	20.10
10	PI/2 BPSK	1	22	19.21	19.23	19.14	20.10	20.10	20.10
10	PI/2 BPSK	12	6	19.19	19.24	18.89	20.10	20.10	20.10
10	PI/2 BPSK	1	0	19.20	19.26	18.89	20.10	20.10	20.10
10	PI/2 BPSK	1	23	19.15	19.20	19.10	20.10	20.10	20.10
10	PI/2 BPSK	24	0	19.22	19.20	18.88	20.10	20.10	20.10
10	QPSK	1	1	19.20	19.18	18.91	20.10	20.10	20.10
10	QPSK	1	22	19.23	19.26	19.10	20.10	20.10	20.10
10	QPSK	12	6	19.16	19.25	18.88	20.10	20.10	20.10
10	QPSK	1	0	19.16	19.20	18.87	20.10	20.10	20.10
10	QPSK	1	23	19.14	19.25	19.10	20.10	20.10	20.10
10	QPSK	24	0	19.19	19.18	18.86	20.10	20.10	20.10
10	16QAM	1	1	19.25	19.25	18.89	20.10	20.10	20.10
10	64QAM	1	1	19.16	19.21	19.10	20.10	20.10	20.10
10	256QAM	1	1	19.23	19.17	18.93	20.10	20.10	20.10



Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	19.17	19.18	18.88	20.10	20.10	20.10
15	PI/2 BPSK	1	36	19.17	19.25	19.13	20.10	20.10	20.10
15	PI/2 BPSK	18	9	19.18	19.18	18.94	20.10	20.10	20.10
15	PI/2 BPSK	1	0	19.16	19.26	18.89	20.10	20.10	20.10
15	PI/2 BPSK	1	37	19.25	19.24	19.10	20.10	20.10	20.10
15	PI/2 BPSK	36	0	19.18	19.17	18.91	20.10	20.10	20.10
15	QPSK	1	1	19.17	19.23	18.85	20.10	20.10	20.10
15	QPSK	1	36	19.17	19.23	19.10	20.10	20.10	20.10
15	QPSK	18	9	19.23	19.16	18.87	20.10	20.10	20.10
15	QPSK	1	0	19.18	19.20	18.94	20.10	20.10	20.10
15	QPSK	1	37	19.26	19.22	19.10	20.10	20.10	20.10
15	QPSK	36	0	19.19	19.18	18.92	20.10	20.10	20.10
15	16QAM	1	1	19.16	19.21	18.93	20.50	20.10	20.10
15	64QAM	1	1	19.23	19.18	18.92	20.50	20.10	20.10
15	256QAM	1	1	19.22	19.18	18.91	20.10	20.10	20.10
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	19.25	19.17	18.91	20.10	20.10	20.10
20	PI/2 BPSK	1	49	19.16	19.24	19.10	20.10	20.10	20.10
20	PI/2 BPSK	25	12	19.17	19.25	18.94	20.10	20.10	20.10
20	PI/2 BPSK	1	0	19.19	19.16	18.84	20.10	20.10	20.10
20	PI/2 BPSK	1	50	19.26	19.22	19.10	20.10	20.10	20.10
20	PI/2 BPSK	50	0	19.21	19.17	18.83	20.10	20.10	20.10
20	QPSK	1	1	19.22	19.26	18.92	20.10	20.10	20.10
20	QPSK	1	49	19.21	19.26	19.10	20.10	20.10	20.10
20	QPSK	25	12	19.20	19.25	18.90	20.10	20.10	20.10
20	QPSK	1	0	19.26	19.20	18.92	20.10	20.10	20.10
20	QPSK	1	50	19.26	19.25	19.10	20.10	20.10	20.10
20	QPSK	50	0	19.22	19.26	18.88	20.10	20.10	20.10
20	16QAM	1	1	19.26	19.18	18.91	20.50	20.10	20.10
20	64QAM	1	1	19.16	19.18	18.90	20.50	20.10	20.10
20	256QAM	1	1	19.18	19.20	18.92	20.10	20.10	20.10
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.22	19.55	13.16	13.50	20.10	13.50
40	PI/2 BPSK	1	104	13.02	19.22	12.87	13.50	20.10	13.50
40	PI/2 BPSK	50	25	13.10	19.21	13.02	13.50	20.10	13.50
40	PI/2 BPSK	1	0	13.19	19.54	13.20	13.50	20.10	13.50
40	PI/2 BPSK	1	105	13.00	19.18	12.83	13.50	20.10	13.50
40	PI/2 BPSK	100	0	13.13	19.17	13.01	13.50	20.10	13.50
40	QPSK	1	1	13.24	19.53	13.20	13.50	20.10	13.50
40	QPSK	1	104	13.02	19.24	12.86	13.50	20.10	13.50
40	QPSK	50	25	13.16	19.21	13.04	13.50	20.10	13.50
40	QPSK	1	0	13.25	19.51	13.23	13.50	20.10	13.50
40	QPSK	1	105	13.01	19.21	12.87	13.50	20.10	13.50
40	QPSK	100	0	13.14	19.19	13.02	13.50	20.10	13.50
40	16QAM	1	1	12.72	19.27	12.71	13.00	20.10	13.00
40	64QAM	1	1	12.76	19.19	12.73	13.00	20.10	13.00
40	256QAM	1	1	12.73	19.49	12.75	13.00	20.10	13.00



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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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	20.31	20.23	20.15	22.10	22.10	22.10
10	PI/2 BPSK	1	22	20.30	20.21	20.11	22.10	22.10	22.10
10	PI/2 BPSK	12	6	20.29	20.25	20.12	22.10	22.10	22.10
10	PI/2 BPSK	1	0	20.29	20.16	20.11	22.10	22.10	22.10
10	PI/2 BPSK	1	23	20.26	20.22	20.12	22.10	22.10	22.10
10	PI/2 BPSK	24	0	20.29	20.20	20.10	22.10	22.10	22.10
10	QPSK	1	1	20.25	20.21	20.19	22.10	22.10	22.10
10	QPSK	1	22	20.22	20.24	20.16	22.10	22.10	22.10
10	QPSK	12	6	20.25	20.25	20.12	22.10	22.10	22.10
10	QPSK	1	0	20.27	20.25	20.11	22.10	22.10	22.10
10	QPSK	1	23	20.26	20.26	20.16	22.10	22.10	22.10
10	QPSK	24	0	20.29	20.23	20.19	22.10	22.10	22.10
10	16QAM	1	1	20.28	20.18	20.14	22.10	22.10	22.10
10	64QAM	1	1	20.20	20.15	20.12	22.10	22.10	22.10
10	256QAM	1	1	20.24	20.25	20.16	21.50	21.50	21.50
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	20.23	20.22	20.13	22.10	22.10	22.10
15	PI/2 BPSK	1	36	20.28	20.13	20.13	22.10	22.10	22.10
15	PI/2 BPSK	18	9	20.24	20.22	20.12	22.10	22.10	22.10
15	PI/2 BPSK	1	0	20.25	20.16	20.10	22.10	22.10	22.10
15	PI/2 BPSK	1	37	20.17	20.12	20.10	22.10	22.10	22.10
15	PI/2 BPSK	36	0	20.21	20.18	20.10	22.10	22.10	22.10
15	QPSK	1	1	20.16	20.18	20.16	21.50	22.10	22.10
15	QPSK	1	36	20.16	20.19	20.20	22.10	22.10	21.50
15	QPSK	18	9	20.15	20.16	20.18	22.10	22.10	22.10
15	QPSK	1	0	20.17	20.19	20.19	21.50	22.10	22.10
15	QPSK	1	37	20.20	20.18	20.19	22.10	22.10	21.50
15	QPSK	36	0	20.20	20.22	20.20	21.50	22.10	21.50
15	16QAM	1	1	20.18	20.12	20.15	20.50	22.10	22.10
15	64QAM	1	1	20.15	20.10	20.14	20.50	22.10	22.10
15	256QAM	1	1	20.21	20.15	20.21	21.50	21.50	21.50
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	20.24	20.22	20.10	21.50	22.10	22.10
20	PI/2 BPSK	1	49	20.22	20.18	20.10	22.10	22.10	22.10
20	PI/2 BPSK	25	12	20.29	20.18	20.12	22.10	22.10	22.10
20	PI/2 BPSK	1	0	20.29	20.09	20.14	21.50	22.10	22.10
20	PI/2 BPSK	1	50	20.23	20.21	20.14	22.10	22.10	22.10
20	PI/2 BPSK	50	0	20.24	20.15	20.12	21.50	22.10	22.10
20	QPSK	1	1	20.17	20.16	20.11	21.50	22.10	22.10
20	QPSK	1	49	20.20	20.24	20.14	22.10	22.10	21.56
20	QPSK	25	12	20.16	20.19	20.13	22.10	22.10	22.10
20	QPSK	1	0	20.21	20.22	20.18	21.50	22.10	22.10
20	QPSK	1	50	20.17	20.22	20.19	22.10	22.10	21.50
20	QPSK	50	0	20.21	20.15	20.16	21.50	22.10	21.50
20	16QAM	1	1	20.27	20.10	20.11	20.50	22.10	22.10
20	64QAM	1	1	20.20	20.15	20.13	20.50	22.10	22.10
20	256QAM	1	1	20.18	20.15	20.24	21.50	21.50	21.50
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.22	20.59	13.16	13.50	22.10	13.50
40	PI/2 BPSK	1	104	13.02	20.30	12.87	13.50	22.10	13.50
40	PI/2 BPSK	50	25	13.10	20.26	13.02	13.50	22.10	13.50



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40	PI/2 BPSK	1	0	13.19	20.57	13.20	13.50	22.10	13.50
40	PI/2 BPSK	1	105	13.00	20.35	12.83	13.50	22.10	13.50
40	PI/2 BPSK	100	0	13.13	20.21	13.01	13.50	22.10	13.50
40	QPSK	1	1	13.24	20.50	13.20	13.50	21.50	13.50
40	QPSK	1	104	13.02	20.27	12.86	13.50	21.50	13.50
40	QPSK	50	25	13.16	20.25	13.04	13.50	22.10	13.50
40	QPSK	1	0	13.25	20.47	13.23	13.50	21.50	13.50
40	QPSK	1	105	13.01	20.28	12.87	13.50	21.50	13.50
40	QPSK	100	0	13.14	20.18	13.02	13.50	21.50	13.50
40	16QAM	1	1	12.72	20.54	12.71	13.00	21.50	13.00
40	64QAM	1	1	12.76	20.23	12.73	13.00	21.50	13.00
40	256QAM	1	1	12.73	20.17	12.75	13.00	21.50	13.00

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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		
							Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	20.31	20.23	20.15	21.40	21.40	21.40
10	PI/2 BPSK	1	22	20.30	20.21	20.11	21.40	21.40	21.40
10	PI/2 BPSK	12	6	20.29	20.25	20.12	21.40	21.40	21.40
10	PI/2 BPSK	1	0	20.29	20.16	20.11	21.40	21.40	21.40
10	PI/2 BPSK	1	23	20.26	20.22	20.12	21.40	21.40	21.40
10	PI/2 BPSK	24	0	20.29	20.20	20.10	21.40	21.40	21.40
10	QPSK	1	1	20.25	20.21	20.19	21.40	21.40	21.40
10	QPSK	1	22	20.22	20.24	20.16	21.40	21.40	21.40
10	QPSK	12	6	20.25	20.25	20.12	21.40	21.40	21.40
10	QPSK	1	0	20.27	20.25	20.11	21.40	21.40	21.40
10	QPSK	1	23	20.26	20.26	20.16	21.40	21.40	21.40
10	QPSK	24	0	20.29	20.23	20.19	21.40	21.40	21.40
10	16QAM	1	1	20.28	20.18	20.14	21.40	21.40	21.40
10	64QAM	1	1	20.20	20.15	20.12	21.40	21.40	21.40
10	256QAM	1	1	20.24	20.25	20.16	21.40	21.40	21.40
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	20.23	20.22	20.13	21.40	21.40	21.40
15	PI/2 BPSK	1	36	20.28	20.13	20.13	21.40	21.40	21.40
15	PI/2 BPSK	18	9	20.24	20.22	20.12	21.40	21.40	21.40
15	PI/2 BPSK	1	0	20.25	20.16	20.10	21.40	21.40	21.40
15	PI/2 BPSK	1	37	20.17	20.12	20.10	21.40	21.40	21.40
15	PI/2 BPSK	36	0	20.21	20.18	20.10	21.40	21.40	21.40
15	QPSK	1	1	20.16	20.18	20.16	21.40	21.40	21.40
15	QPSK	1	36	20.16	20.19	20.20	21.40	21.40	21.40
15	QPSK	18	9	20.15	20.16	20.18	21.40	21.40	21.40
15	QPSK	1	0	20.17	20.19	20.19	21.40	21.40	21.40
15	QPSK	1	37	20.20	20.18	20.19	21.40	21.40	21.40
15	QPSK	36	0	20.20	20.22	20.20	21.40	21.40	21.40
15	16QAM	1	1	20.18	20.12	20.15	20.50	21.40	21.40
15	64QAM	1	1	20.15	20.10	20.14	20.50	21.40	21.40
15	256QAM	1	1	20.21	20.15	20.21	21.40	21.40	21.40
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	20.24	20.22	20.10	21.40	21.40	21.40
20	PI/2 BPSK	1	49	20.22	20.18	20.10	21.40	21.40	21.40
20	PI/2 BPSK	25	12	20.29	20.18	20.12	21.40	21.40	21.40
20	PI/2 BPSK	1	0	20.29	20.09	20.14	21.40	21.40	21.40
20	PI/2 BPSK	1	50	20.23	20.21	20.14	21.40	21.40	21.40
20	PI/2 BPSK	50	0	20.24	20.15	20.12	21.40	21.40	21.40
20	QPSK	1	1	20.17	20.16	20.11	21.40	21.40	21.40
20	QPSK	1	49	20.20	20.24	20.14	21.40	21.40	21.40





20	QPSK	25	12	20.16	20.19	20.13	21.40	21.40	21.40
20	QPSK	1	0	20.21	20.22	20.18	21.40	21.40	21.40
20	QPSK	1	50	20.17	20.22	20.19	21.40	21.40	21.40
20	QPSK	50	0	20.21	20.15	20.16	21.40	21.40	21.40
20	16QAM	1	1	20.27	20.10	20.11	20.50	21.40	21.40
20	64QAM	1	1	20.20	20.15	20.13	20.50	21.40	21.40
20	256QAM	1	1	20.18	20.15	20.24	21.40	21.40	21.40
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.22	20.59	13.16	13.50	21.40	13.50
40	PI/2 BPSK	1	104	13.02	20.30	12.87	13.50	21.40	13.50
40	PI/2 BPSK	50	25	13.10	20.26	13.02	13.50	21.40	13.50
40	PI/2 BPSK	1	0	13.19	20.57	13.20	13.50	21.40	13.50
40	PI/2 BPSK	1	105	13.00	20.35	12.83	13.50	21.40	13.50
40	PI/2 BPSK	100	0	13.13	20.21	13.01	13.50	21.40	13.50
40	QPSK	1	1	13.24	20.50	13.20	13.50	21.40	13.50
40	QPSK	1	104	13.02	20.27	12.86	13.50	21.40	13.50
40	QPSK	50	25	13.16	20.25	13.04	13.50	21.40	13.50
40	QPSK	1	0	13.25	20.47	13.23	13.50	21.40	13.50
40	QPSK	1	105	13.01	20.28	12.87	13.50	21.40	13.50
40	QPSK	100	0	13.14	20.18	13.02	13.50	21.40	13.50
40	16QAM	1	1	12.72	20.54	12.71	13.00	21.40	13.00
40	64QAM	1	1	12.76	20.23	12.73	13.00	21.40	13.00
40	256QAM	1	1	12.73	20.17	12.75	13.00	21.40	13.00





<FR1 n77\_PC3\_Ant 1\_Index 2>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.39	20.45	20.44	21.8
100	PI/2 BPSK	1	137	20.27	20.35	20.35	
100	PI/2 BPSK	1	271	19.92	19.97	19.91	
100	PI/2 BPSK	135	0	20.04	20.08	20.00	21.8
100	PI/2 BPSK	135	69	20.30	20.31	20.23	21.8
100	PI/2 BPSK	135	138	20.07	20.07	20.05	21.8
100	PI/2 BPSK	270	0	20.01	20.11	20.11	
100	QPSK	1	1	20.34	20.44	20.38	21.8
100	QPSK	1	137	20.25	20.32	20.31	
100	QPSK	1	271	19.96	19.98	19.94	
100	QPSK	135	0	20.07	20.08	19.99	21.8
100	QPSK	135	69	20.23	20.31	20.25	
100	QPSK	135	138	20.07	20.07	20.00	
100	QPSK	270	0	20.05	20.10	20.05	21.8
100	16QAM	1	1	20.34	20.44	20.34	21.8
100	64QAM	1	1	20.33	20.40	20.33	21.8
100	256QAM	1	1	18.86	18.89	18.84	19.9
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.24	20.38	20.38	21.8
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.32	20.41	20.38	21.8
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.32	20.41	20.29	21.8
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.24	20.40	20.32	21.8
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.31	20.34	20.35	21.8
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.28	20.37	20.33	21.8
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.28	20.35	20.35	21.8
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.33	20.36	20.33	21.8
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.29	20.40	20.31	21.8
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.26	20.38	20.36	21.8
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.29	20.38	20.35	21.8



<FR1 n77\_PC3\_Ant 1\_Index 2>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.08		21.8
100	PI/2 BPSK	1	137		20.97		
100	PI/2 BPSK	1	271		20.57		
100	PI/2 BPSK	135	0		21.06		21.8
100	PI/2 BPSK	135	69		20.93		21.8
100	PI/2 BPSK	135	138		20.71		21.8
100	PI/2 BPSK	270	0		20.92		
100	QPSK	1	1		21.05		21.8
100	QPSK	1	137		20.97		
100	QPSK	1	271		20.56		
100	QPSK	135	0		21.07		21.8
100	QPSK	135	69		20.94		
100	QPSK	135	138		20.72		
100	QPSK	270	0		20.92		21.8
100	16QAM	1	1		21.07		21.8
100	64QAM	1	1		20.49		21.8
100	256QAM	1	1		18.46		19.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.05	21.06	21.03	21.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.96	20.98	21.03	21.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.99	21.02	20.99	21.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.05	21.06	21.04	21.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.08	21.07	21.05	21.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.04	21.03	21.03	21.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.95	20.98	21.03	21.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.04	21.04	21.06	21.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.06	21.08	21.06	21.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.97	21.01	20.94	21.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.96	21.03	20.96	21.8



<FR1 n77\_PC3\_Ant 1\_Index 3>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.39	20.45	20.44	21.1
100	PI/2 BPSK	1	137	20.27	20.35	20.35	
100	PI/2 BPSK	1	271	19.92	19.97	19.91	
100	PI/2 BPSK	135	0	20.04	20.08	20.00	21.1
100	PI/2 BPSK	135	69	20.30	20.31	20.23	21.1
100	PI/2 BPSK	135	138	20.07	20.07	20.05	21.1
100	PI/2 BPSK	270	0	20.01	20.11	20.11	
100	QPSK	1	1	20.34	20.44	20.38	21.1
100	QPSK	1	137	20.25	20.32	20.31	
100	QPSK	1	271	19.96	19.98	19.94	
100	QPSK	135	0	20.07	20.08	19.99	21.1
100	QPSK	135	69	20.23	20.31	20.25	
100	QPSK	135	138	20.07	20.07	20.00	
100	QPSK	270	0	20.05	20.10	20.05	21.1
100	16QAM	1	1	20.34	20.44	20.34	21.1
100	64QAM	1	1	20.33	20.40	20.33	21.1
100	256QAM	1	1	18.86	18.89	18.84	19.9
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.24	20.38	20.38	21.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.32	20.41	20.38	21.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.32	20.41	20.29	21.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.24	20.40	20.32	21.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.31	20.34	20.35	21.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.28	20.37	20.33	21.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.28	20.35	20.35	21.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.33	20.36	20.33	21.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.29	20.40	20.31	21.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.26	20.38	20.36	21.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.29	20.38	20.35	21.1



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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		21.08		21.1
100	PI/2 BPSK	1	137		20.97		
100	PI/2 BPSK	1	271		20.57		
100	PI/2 BPSK	135	0		21.06		21.1
100	PI/2 BPSK	135	69		20.93		21.1
100	PI/2 BPSK	135	138		20.71		21.1
100	PI/2 BPSK	270	0		20.92		
100	QPSK	1	1		21.05		21.1
100	QPSK	1	137		20.97		
100	QPSK	1	271		20.56		
100	QPSK	135	0		21.07		21.1
100	QPSK	135	69		20.94		
100	QPSK	135	138		20.72		
100	QPSK	270	0		20.92		21.1
100	16QAM	1	1		21.07		21.1
100	64QAM	1	1		20.49		21.1
100	256QAM	1	1		18.46		19.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.05	21.06	21.03	21.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.96	20.98	21.03	21.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.99	21.02	20.99	21.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.05	21.06	21.04	21.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.08	21.07	21.05	21.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.04	21.03	21.03	21.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.95	20.98	21.03	21.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.04	21.04	21.06	21.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.06	21.08	21.06	21.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.97	21.01	20.94	21.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.96	21.03	20.96	21.1



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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	656000	662000	23.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.96	22.94	23.04	23.1
100	PI/2 BPSK	1	137	22.78	22.81	22.99	
100	PI/2 BPSK	1	271	22.26	22.33	22.33	
100	PI/2 BPSK	135	0	22.45	22.05	22.50	23.1
100	PI/2 BPSK	135	69	22.76	22.78	23.00	23.1
100	PI/2 BPSK	135	138	22.01	22.02	22.08	23.1
100	PI/2 BPSK	270	0	22.17	22.05	22.11	
100	QPSK	1	1	22.94	22.90	23.01	23.1
100	QPSK	1	137	22.80	22.77	23.00	
100	QPSK	1	271	22.25	22.30	22.33	
100	QPSK	135	0	21.91	21.90	22.00	23.1
100	QPSK	135	69	22.75	22.78	22.99	
100	QPSK	135	138	21.90	21.91	21.90	
100	QPSK	270	0	21.59	21.50	21.59	23.1
100	16QAM	1	1	21.92	21.90	21.97	23.1
100	64QAM	1	1	20.37	20.36	20.39	21.9
100	256QAM	1	1	18.36	18.32	18.44	19.9
Channel				649668	656000	662332	23.1
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.92	22.92	22.93	23.1
Channel				649334	656000	662666	23.1
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.87	22.88	22.86	23.1
Channel				649000	656000	663000	23.1
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.67	22.69	22.69	23.1
Channel				648668	656000	663332	23.1
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.68	22.69	22.68	23.1
Channel				648334	656000	663666	23.1
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.57	22.58	22.58	23.1
Channel				648000	656000	664000	23.1
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.56	22.56	22.56	23.1
Channel				647668	656000	664332	23.1
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.75	22.76	22.78	23.1
Channel				647500	656000	664500	23.1
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.77	22.79	22.76	23.1
Channel				647334	656000	664666	23.1
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.62	22.65	22.65	23.1
Channel				647168	656000	664832	23.1
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.66	22.66	22.56	23.1
Channel				647000	656000	665000	23.1
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.66	22.67	22.68	23.1



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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		23.02		23.1
100	PI/2 BPSK	1	137		22.91		
100	PI/2 BPSK	1	271		22.50		
100	PI/2 BPSK	135	0		22.50		22.9
100	PI/2 BPSK	135	69		22.90		23.1
100	PI/2 BPSK	135	138		22.17		22.9
100	PI/2 BPSK	270	0		22.38		
100	QPSK	1	1		22.95		23.1
100	QPSK	1	137		22.91		
100	QPSK	1	271		22.47		
100	QPSK	135	0		22.40		23.1
100	QPSK	135	69		22.89		
100	QPSK	135	138		22.41		
100	QPSK	270	0		21.85		22.4
100	16QAM	1	1		21.97		22.4
100	64QAM	1	1		20.42		20.9
100	256QAM	1	1		18.39		18.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.92	22.81	22.86	23.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.91	22.85	22.96	23.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.51	23.00	22.78	23.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.49	22.97	22.60	23.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.52	23.00	22.50	23.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.42	22.99	22.40	23.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.41	23.00	22.44	23.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.43	23.00	22.64	23.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.41	23.00	22.64	23.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.43	22.98	22.67	23.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.41	22.99	22.58	23.1



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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	656000	662000	23.8
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.96	22.94	23.04	23.8
100	PI/2 BPSK	1	137	22.78	22.81	22.99	
100	PI/2 BPSK	1	271	22.26	22.33	22.33	
100	PI/2 BPSK	135	0	22.45	22.05	22.50	23.8
100	PI/2 BPSK	135	69	22.76	22.78	23.00	23.8
100	PI/2 BPSK	135	138	22.01	22.02	22.08	23.8
100	PI/2 BPSK	270	0	22.17	22.05	22.11	
100	QPSK	1	1	22.94	22.90	23.01	23.8
100	QPSK	1	137	22.80	22.77	23.00	
100	QPSK	1	271	22.25	22.30	22.33	
100	QPSK	135	0	21.91	21.90	22.00	23.8
100	QPSK	135	69	22.75	22.78	22.99	
100	QPSK	135	138	21.90	21.91	21.90	
100	QPSK	270	0	21.59	21.50	21.59	23.4
100	16QAM	1	1	21.92	21.90	21.97	23.4
100	64QAM	1	1	20.37	20.36	20.39	21.9
100	256QAM	1	1	18.36	18.32	18.44	19.9
Channel				649668	656000	662332	23.8
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.92	22.92	22.93	23.8
Channel				649334	656000	662666	23.8
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.87	22.88	22.86	23.8
Channel				649000	656000	663000	23.8
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.67	22.69	22.69	23.8
Channel				648668	656000	663332	23.8
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.68	22.69	22.68	23.8
Channel				648334	656000	663666	23.8
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.57	22.58	22.58	23.8
Channel				648000	656000	664000	23.8
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.56	22.56	22.56	23.8
Channel				647668	656000	664332	23.8
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.75	22.76	22.78	23.8
Channel				647500	656000	664500	23.8
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.77	22.79	22.76	23.8
Channel				647334	656000	664666	23.8
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.62	22.65	22.65	23.8
Channel				647168	656000	664832	23.8
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.66	22.66	22.56	23.8
Channel				647000	656000	665000	23.8
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.66	22.67	22.68	23.8



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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		23.02		23.8
100	PI/2 BPSK	1	137		22.91		
100	PI/2 BPSK	1	271		22.50		
100	PI/2 BPSK	135	0		22.50		23.8
100	PI/2 BPSK	135	69		22.90		23.8
100	PI/2 BPSK	135	138		22.17		23.8
100	PI/2 BPSK	270	0		22.38		
100	QPSK	1	1		22.95		23.8
100	QPSK	1	137		22.91		
100	QPSK	1	271		22.47		
100	QPSK	135	0		22.40		23.8
100	QPSK	135	69		22.89		
100	QPSK	135	138		22.41		
100	QPSK	270	0		21.85		23.4
100	16QAM	1	1		21.97		23.4
100	64QAM	1	1		20.42		21.9
100	256QAM	1	1		18.39		19.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.92	22.81	22.86	23.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.91	22.85	22.96	23.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.51	23.00	22.78	23.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.49	22.97	22.60	23.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.52	23.00	22.50	23.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.42	22.99	22.40	23.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.41	23.00	22.44	23.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.43	23.00	22.64	23.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.41	23.00	22.64	23.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.43	22.98	22.67	23.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.41	22.99	22.58	23.8





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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				650000	656000	662000	23.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.96	22.94	23.04	23.1
100	PI/2 BPSK	1	137	22.78	22.81	22.99	
100	PI/2 BPSK	1	271	22.26	22.33	22.33	
100	PI/2 BPSK	135	0	22.45	22.05	22.50	23.1
100	PI/2 BPSK	135	69	22.76	22.78	23.00	23.1
100	PI/2 BPSK	135	138	22.01	22.02	22.08	23.1
100	PI/2 BPSK	270	0	22.17	22.05	22.11	
100	QPSK	1	1	22.94	22.90	23.01	23.1
100	QPSK	1	137	22.80	22.77	23.00	
100	QPSK	1	271	22.25	22.30	22.33	
100	QPSK	135	0	21.91	21.90	22.00	23.1
100	QPSK	135	69	22.75	22.78	22.99	
100	QPSK	135	138	21.90	21.91	21.90	
100	QPSK	270	0	21.59	21.50	21.59	23.1
100	16QAM	1	1	21.92	21.90	21.97	23.1
100	64QAM	1	1	20.37	20.36	20.39	21.9
100	256QAM	1	1	18.36	18.32	18.44	19.9
Channel				649668	656000	662332	23.1
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.92	22.92	22.93	23.1
Channel				649334	656000	662666	23.1
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.87	22.88	22.86	23.1
Channel				649000	656000	663000	23.1
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.67	22.69	22.69	23.1
Channel				648668	656000	663332	23.1
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.68	22.69	22.68	23.1
Channel				648334	656000	663666	23.1
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.57	22.58	22.58	23.1
Channel				648000	656000	664000	23.1
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.56	22.56	22.56	23.1
Channel				647668	656000	664332	23.1
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.75	22.76	22.78	23.1
Channel				647500	656000	664500	23.1
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.77	22.79	22.76	23.1
Channel				647334	656000	664666	23.1
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.62	22.65	22.65	23.1
Channel				647168	656000	664832	23.1
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.66	22.66	22.56	23.1
Channel				647000	656000	665000	23.1
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.66	22.67	22.68	23.1



<FR1 n77\_PC3\_Ant 1\_Index 6>FCC Part 27C

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		23.1
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.02		23.1
100	PI/2 BPSK	1	137		22.91		
100	PI/2 BPSK	1	271		22.50		23.1
100	PI/2 BPSK	135	0		22.50		
100	PI/2 BPSK	135	69		22.90		23.1
100	PI/2 BPSK	135	138		22.17		
100	PI/2 BPSK	270	0		22.38		23.1
100	QPSK	1	1		22.95		
100	QPSK	1	137		22.91		23.1
100	QPSK	1	271		22.47		
100	QPSK	135	0		22.40		23.1
100	QPSK	135	69		22.89		
100	QPSK	135	138		22.41		23.1
100	QPSK	270	0		21.85		
100	16QAM	1	1		21.97		23.1
100	64QAM	1	1		20.42		21.9
100	256QAM	1	1		18.39		19.9
Channel				633000	633332	633666	23.1
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.92	22.81	22.86	23.1
Channel				632668	633332	634000	23.1
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.91	22.85	22.96	23.1
Channel				632334	633332	634332	23.1
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.51	23.00	22.78	23.1
Channel				632000	633332	634666	23.1
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.49	22.97	22.60	23.1
Channel				631668	633332	635000	23.1
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.52	23.00	22.50	23.1
Channel				631334	633332	635332	23.1
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.42	22.99	22.40	23.1
Channel				631000	633332	635666	23.1
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.41	23.00	22.44	23.1
Channel				630834	633332	635832	23.1
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.43	23.00	22.64	23.1
Channel				630668	633332	636000	23.1
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.41	23.00	22.64	23.1
Channel				630500	633332	636166	23.1
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.43	22.98	22.67	23.1
Channel				630334	633332	636332	23.1
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.41	22.99	22.58	23.1



<FR1 n77\_PC2\_Ant 1\_Index 2>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.32	23.40	23.35	25.0
100	PI/2 BPSK	1	137	23.24	23.33	23.30	
100	PI/2 BPSK	1	271	22.73	22.78	22.75	
100	PI/2 BPSK	135	0	23.00	23.05	23.02	25.0
100	PI/2 BPSK	135	69	23.19	23.29	23.21	25.0
100	PI/2 BPSK	135	138	23.03	23.04	23.00	25.0
100	PI/2 BPSK	270	0	23.00	23.08	23.00	
100	QPSK	1	1	23.34	23.37	23.30	25.0
100	QPSK	1	137	23.25	23.33	23.25	
100	QPSK	1	271	22.71	22.77	22.73	
100	QPSK	135	0	23.05	23.05	23.04	25.0
100	QPSK	135	69	23.27	23.29	23.19	
100	QPSK	135	138	22.98	23.05	23.00	
100	QPSK	270	0	23.00	23.07	23.00	25.0
100	16QAM	1	1	23.34	23.38	23.33	25.0
100	64QAM	1	1	23.00	23.01	23.01	25.0
100	256QAM	1	1	21.82	21.88	21.86	23.1
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.27	23.28	23.26	25.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.20	23.23	23.23	25.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.18	23.18	23.19	25.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.19	23.28	23.22	25.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.17	23.23	23.16	25.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.24	23.26	23.16	25.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.21	23.27	23.16	25.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.24	23.27	23.19	25.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.18	23.26	23.21	25.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.27	23.22	23.16	25.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.27	23.28	23.20	25.0



<FR1 n77\_PC2\_Ant 1\_Index 2>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		25.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.03		25.0
100	PI/2 BPSK	1	137		24.00		
100	PI/2 BPSK	1	271		23.53		25.0
100	PI/2 BPSK	135	0		24.11		
100	PI/2 BPSK	135	69		24.01		25.0
100	PI/2 BPSK	135	138		23.77		
100	PI/2 BPSK	270	0		23.97		25.0
100	QPSK	1	1		24.01		
100	QPSK	1	137		23.99		25.0
100	QPSK	1	271		23.52		
100	QPSK	135	0		24.10		25.0
100	QPSK	135	69		24.00		
100	QPSK	135	138		23.78		25.0
100	QPSK	270	0		23.97		
100	16QAM	1	1		24.02		25.0
100	64QAM	1	1		23.46		
100	256QAM	1	1		21.47		23.1
Channel				633000	633332	633666	25.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.02	24.02	24.03	25.0
Channel				632668	633332	634000	25.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.99	24.02	24.01	25.0
Channel				632334	633332	634332	25.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.00	23.92	23.96	25.0
Channel				632000	633332	634666	25.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.94	24.00	23.99	25.0
Channel				631668	633332	635000	25.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.00	23.97	23.99	25.0
Channel				631334	633332	635332	25.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.97	23.97	24.02	25.0
Channel				631000	633332	635666	25.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.99	24.01	24.03	25.0
Channel				630834	633332	635832	25.0
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.00	24.01	24.02	25.0
Channel				630668	633332	636000	25.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.00	24.00	23.94	25.0
Channel				630500	633332	636166	25.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.96	23.94	23.97	25.0
Channel				630334	633332	636332	25.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.95	23.93	23.95	25.0



<FR1 n77\_PC2\_Ant 1\_Index 3>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.32	23.40	23.35	24.3
100	PI/2 BPSK	1	137	23.24	23.33	23.30	
100	PI/2 BPSK	1	271	22.73	22.78	22.75	
100	PI/2 BPSK	135	0	23.00	23.05	23.02	24.3
100	PI/2 BPSK	135	69	23.19	23.29	23.21	24.3
100	PI/2 BPSK	135	138	23.03	23.04	23.00	24.3
100	PI/2 BPSK	270	0	23.00	23.08	23.00	
100	QPSK	1	1	23.34	23.37	23.30	24.3
100	QPSK	1	137	23.25	23.33	23.25	
100	QPSK	1	271	22.71	22.77	22.73	
100	QPSK	135	0	23.05	23.05	23.04	24.3
100	QPSK	135	69	23.27	23.29	23.19	
100	QPSK	135	138	22.98	23.05	23.00	
100	QPSK	270	0	23.00	23.07	23.00	24.3
100	16QAM	1	1	23.34	23.38	23.33	24.3
100	64QAM	1	1	23.00	23.01	23.01	24.3
100	256QAM	1	1	21.82	21.88	21.86	23.1
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.27	23.28	23.26	24.3
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.20	23.23	23.23	24.3
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.18	23.18	23.19	24.3
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.19	23.28	23.22	24.3
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.17	23.23	23.16	24.3
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.24	23.26	23.16	24.3
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.21	23.27	23.16	24.3
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.24	23.27	23.19	24.3
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.18	23.26	23.21	24.3
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.27	23.22	23.16	24.3
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.27	23.28	23.20	24.3



<FR1 n77\_PC2\_Ant 1\_Index 3>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.03		24.3
100	PI/2 BPSK	1	137		24.00		
100	PI/2 BPSK	1	271		23.53		
100	PI/2 BPSK	135	0		24.11		24.3
100	PI/2 BPSK	135	69		24.01		24.3
100	PI/2 BPSK	135	138		23.77		24.3
100	PI/2 BPSK	270	0		23.97		
100	QPSK	1	1		24.01		24.3
100	QPSK	1	137		23.99		
100	QPSK	1	271		23.52		
100	QPSK	135	0		24.10		24.3
100	QPSK	135	69		24.00		
100	QPSK	135	138		23.78		
100	QPSK	270	0		23.97		24.3
100	16QAM	1	1		24.02		24.3
100	64QAM	1	1		23.46		24.3
100	256QAM	1	1		21.47		23.1
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.02	24.02	24.03	24.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.99	24.02	24.01	24.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.00	23.92	23.96	24.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.94	24.00	23.99	24.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.00	23.97	23.99	24.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.97	23.97	24.02	24.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.99	24.01	24.03	24.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.00	24.01	24.02	24.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.00	24.00	23.94	24.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.96	23.94	23.97	24.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.95	23.93	23.95	24.3



<FR1 n77\_PC2\_Ant 1\_Index 4>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.95	26.07	26.30	26.3
100	PI/2 BPSK	1	137	25.82	25.90	26.14	
100	PI/2 BPSK	1	271	25.33	25.42	25.57	
100	PI/2 BPSK	135	0	25.34	25.59	25.57	26.3
100	PI/2 BPSK	135	69	25.81	25.87	26.07	26.3
100	PI/2 BPSK	135	138	25.21	25.38	25.12	26.3
100	PI/2 BPSK	270	0	25.19	25.30	25.35	
100	QPSK	1	1	25.95	26.08	26.29	26.3
100	QPSK	1	137	25.81	25.89	26.15	
100	QPSK	1	271	25.34	25.44	25.55	
100	QPSK	135	0	25.21	25.25	25.21	26.3
100	QPSK	135	69	25.81	25.91	26.05	
100	QPSK	135	138	25.20	25.21	25.21	
100	QPSK	270	0	24.72	24.83	24.84	26.3
100	16QAM	1	1	24.98	25.12	25.30	26.3
100	64QAM	1	1	23.44	23.53	23.72	25.1
100	256QAM	1	1	21.49	21.60	21.75	23.1
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.94	25.88	26.21	26.3
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.93	25.98	26.24	26.3
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.87	26.14	26.27	26.3
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.86	26.11	26.26	26.3
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.93	26.07	26.24	26.3
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.87	26.09	26.20	26.3
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.86	26.05	26.21	26.3
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.89	26.04	26.22	26.3
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.85	25.84	26.22	26.3
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.85	25.89	26.24	26.3
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.94	25.88	26.24	26.3



<FR1 n77\_PC2\_Ant 1\_Index 4>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.03		26.3
100	PI/2 BPSK	1	137		26.00		
100	PI/2 BPSK	1	271		25.34		
100	PI/2 BPSK	135	0		25.41		26.1
100	PI/2 BPSK	135	69		26.02		26.3
100	PI/2 BPSK	135	138		25.09		26.1
100	PI/2 BPSK	270	0		25.48		
100	QPSK	1	1		26.01		26.3
100	QPSK	1	137		26.00		
100	QPSK	1	271		25.41		
100	QPSK	135	0		25.10		26.3
100	QPSK	135	69		26.02		
100	QPSK	135	138		25.11		
100	QPSK	270	0		24.97		25.6
100	16QAM	1	1		25.05		25.6
100	64QAM	1	1		23.43		24.1
100	256QAM	1	1		21.44		22.1
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.97	25.90	25.91	26.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.94	25.95	25.90	26.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.97	26.00	25.87	26.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.87	25.97	25.87	26.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.93	25.95	25.86	26.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.94	26.01	25.90	26.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.91	26.02	25.84	26.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.87	26.02	25.86	26.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.90	25.97	25.84	26.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.93	25.94	25.84	26.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.94	25.91	25.88	26.3





<FR1 n77\_PC2\_Ant 1\_Index 5>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.95	26.07	26.30	27.0
100	PI/2 BPSK	1	137	25.82	25.90	26.14	
100	PI/2 BPSK	1	271	25.33	25.42	25.57	
100	PI/2 BPSK	135	0	25.34	25.59	25.57	27.0
100	PI/2 BPSK	135	69	25.81	25.87	26.07	27.0
100	PI/2 BPSK	135	138	25.21	25.38	25.12	27.0
100	PI/2 BPSK	270	0	25.19	25.30	25.35	
100	QPSK	1	1	25.95	26.08	26.29	27.0
100	QPSK	1	137	25.81	25.89	26.15	
100	QPSK	1	271	25.34	25.44	25.55	
100	QPSK	135	0	25.21	25.25	25.21	27.0
100	QPSK	135	69	25.81	25.91	26.05	
100	QPSK	135	138	25.20	25.21	25.21	
100	QPSK	270	0	24.72	24.83	24.84	26.6
100	16QAM	1	1	24.98	25.12	25.30	26.6
100	64QAM	1	1	23.44	23.53	23.72	25.1
100	256QAM	1	1	21.49	21.60	21.75	23.1
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.94	25.88	26.21	27.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.93	25.98	26.24	27.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.87	26.14	26.27	27.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.86	26.11	26.26	27.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.93	26.07	26.24	27.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.87	26.09	26.20	27.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.86	26.05	26.21	27.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.89	26.04	26.22	27.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.85	25.84	26.22	27.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.85	25.89	26.24	27.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.94	25.88	26.24	27.0



<FR1 n77\_PC2\_Ant 1\_Index 5>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.03		27.0
100	PI/2 BPSK	1	137		26.00		
100	PI/2 BPSK	1	271		25.34		
100	PI/2 BPSK	135	0		25.41		27.0
100	PI/2 BPSK	135	69		26.02		27.0
100	PI/2 BPSK	135	138		25.09		27.0
100	PI/2 BPSK	270	0		25.48		
100	QPSK	1	1		26.01		27.0
100	QPSK	1	137		26.00		
100	QPSK	1	271		25.41		
100	QPSK	135	0		25.10		27.0
100	QPSK	135	69		26.02		
100	QPSK	135	138		25.11		
100	QPSK	270	0		24.97		26.6
100	16QAM	1	1		25.05		26.6
100	64QAM	1	1		23.43		25.1
100	256QAM	1	1		21.44		23.1
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.97	25.90	25.91	27.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.94	25.95	25.90	27.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.97	26.00	25.87	27.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.87	25.97	25.87	27.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.93	25.95	25.86	27.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.94	26.01	25.90	27.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.91	26.02	25.84	27.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.87	26.02	25.86	27.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.90	25.97	25.84	27.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.93	25.94	25.84	27.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.94	25.91	25.88	27.0



<FR1 n77\_PC2\_Ant 1\_Index 6>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.95	26.07	26.30	26.3
100	PI/2 BPSK	1	137	25.82	25.90	26.14	
100	PI/2 BPSK	1	271	25.33	25.42	25.57	
100	PI/2 BPSK	135	0	25.34	25.59	25.57	26.3
100	PI/2 BPSK	135	69	25.81	25.87	26.07	26.3
100	PI/2 BPSK	135	138	25.21	25.38	25.12	26.3
100	PI/2 BPSK	270	0	25.19	25.30	25.35	
100	QPSK	1	1	25.95	26.08	26.29	26.3
100	QPSK	1	137	25.81	25.89	26.15	
100	QPSK	1	271	25.34	25.44	25.55	
100	QPSK	135	0	25.21	25.25	25.21	26.3
100	QPSK	135	69	25.81	25.91	26.05	
100	QPSK	135	138	25.20	25.21	25.21	
100	QPSK	270	0	24.72	24.83	24.84	26.3
100	16QAM	1	1	24.98	25.12	25.30	26.3
100	64QAM	1	1	23.44	23.53	23.72	25.1
100	256QAM	1	1	21.49	21.60	21.75	23.1
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.94	25.88	26.21	26.3
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.93	25.98	26.24	26.3
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.87	26.14	26.27	26.3
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.86	26.11	26.26	26.3
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.93	26.07	26.24	26.3
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.87	26.09	26.20	26.3
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.86	26.05	26.21	26.3
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.89	26.04	26.22	26.3
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.85	25.84	26.22	26.3
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.85	25.89	26.24	26.3
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.94	25.88	26.24	26.3



<FR1 n77\_PC2\_Ant 1\_Index 6>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		26.3
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.03		26.3
100	PI/2 BPSK	1	137		26.00		
100	PI/2 BPSK	1	271		25.34		26.3
100	PI/2 BPSK	135	0		25.41		
100	PI/2 BPSK	135	69		26.02		26.3
100	PI/2 BPSK	135	138		25.09		
100	PI/2 BPSK	270	0		25.48		26.3
100	QPSK	1	1		26.01		
100	QPSK	1	137		26.00		26.3
100	QPSK	1	271		25.41		
100	QPSK	135	0		25.10		26.3
100	QPSK	135	69		26.02		
100	QPSK	135	138		25.11		26.3
100	QPSK	270	0		24.97		
100	16QAM	1	1		25.05		26.3
100	64QAM	1	1		23.43		
100	256QAM	1	1		21.44		23.1
Channel				633000	633332	633666	26.3
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.97	25.90	25.91	26.3
Channel				632668	633332	634000	26.3
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.94	25.95	25.90	26.3
Channel				632334	633332	634332	26.3
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.97	26.00	25.87	26.3
Channel				632000	633332	634666	26.3
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.87	25.97	25.87	26.3
Channel				631668	633332	635000	26.3
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.93	25.95	25.86	26.3
Channel				631334	633332	635332	26.3
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.94	26.01	25.90	26.3
Channel				631000	633332	635666	26.3
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.91	26.02	25.84	26.3
Channel				630834	633332	635832	26.3
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.87	26.02	25.86	26.3
Channel				630668	633332	636000	26.3
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.90	25.97	25.84	26.3
Channel				630500	633332	636166	26.3
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.93	25.94	25.84	26.3
Channel				630334	633332	636332	26.3
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.94	25.91	25.88	26.3



<FR1 n77\_PC3\_Ant 5\_Index 2>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	15.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	14.23	14.29	14.22	15.1
100	PI/2 BPSK	1	137	14.24	14.25	14.22	
100	PI/2 BPSK	1	271	13.94	14.00	13.97	15.1
100	PI/2 BPSK	135	0	13.85	13.93	13.83	
100	PI/2 BPSK	135	69	14.15	14.24	14.17	15.1
100	PI/2 BPSK	135	138	14.05	14.10	14.09	
100	PI/2 BPSK	270	0	14.00	14.01	13.97	15.1
100	QPSK	1	1	14.17	14.24	14.24	
100	QPSK	1	137	14.18	14.26	14.23	15.1
100	QPSK	1	271	14.00	14.00	13.94	
100	QPSK	135	0	13.92	13.93	13.90	15.1
100	QPSK	135	69	14.19	14.25	14.15	
100	QPSK	135	138	14.09	14.09	14.04	15.1
100	QPSK	270	0	13.97	14.01	14.01	
100	16QAM	1	1	14.23	14.25	14.23	15.1
100	64QAM	1	1	14.09	14.19	14.10	
100	256QAM	1	1	14.11	14.21	14.20	15.1
Channel				649668	656000	662332	15.1
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	14.07	14.16	14.14	15.1
Channel				649334	656000	662666	15.1
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	14.08	14.22	14.23	15.1
Channel				649000	656000	663000	15.1
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	14.15	14.16	14.23	15.1
Channel				648668	656000	663332	15.1
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	14.11	14.16	14.23	15.1
Channel				648334	656000	663666	15.1
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	14.09	14.17	14.19	15.1
Channel				648000	656000	664000	15.1
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	14.07	14.19	14.16	15.1
Channel				647668	656000	664332	15.1
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	14.16	14.24	14.20	15.1
Channel				647500	656000	664500	15.1
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	14.11	14.24	14.21	15.1
Channel				647334	656000	664666	15.1
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.15	14.22	14.21	15.1
Channel				647168	656000	664832	15.1
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	14.11	14.15	14.16	15.1
Channel				647000	656000	665000	15.1
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.10	14.24	14.22	15.1



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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		15.1
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.29		15.1
100	PI/2 BPSK	1	137		14.11		
100	PI/2 BPSK	1	271		13.90		15.1
100	PI/2 BPSK	135	0		14.23		
100	PI/2 BPSK	135	69		14.09		15.1
100	PI/2 BPSK	135	138		13.93		
100	PI/2 BPSK	270	0		14.04		15.1
100	QPSK	1	1		14.28		
100	QPSK	1	137		14.11		15.1
100	QPSK	1	271		13.91		
100	QPSK	135	0		14.23		15.1
100	QPSK	135	69		14.08		
100	QPSK	135	138		13.94		15.1
100	QPSK	270	0		14.04		
100	16QAM	1	1		14.26		15.1
100	64QAM	1	1		14.20		
100	256QAM	1	1		14.21		15.1
Channel				633000	633332	633666	15.1
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.27	14.25	14.24	15.1
Channel				632668	633332	634000	15.1
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.27	14.19	14.14	15.1
Channel				632334	633332	634332	15.1
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.27	14.18	14.22	15.1
Channel				632000	633332	634666	15.1
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.18	14.25	14.19	15.1
Channel				631668	633332	635000	15.1
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.26	14.18	14.24	15.1
Channel				631334	633332	635332	15.1
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.17	14.23	14.16	15.1
Channel				631000	633332	635666	15.1
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.27	14.16	14.16	15.1
Channel				630834	633332	635832	15.1
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	14.25	14.23	14.15	15.1
Channel				630668	633332	636000	15.1
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.22	14.17	14.17	15.1
Channel				630500	633332	636166	15.1
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.18	14.19	14.18	15.1
Channel				630334	633332	636332	15.1
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.27	14.25	14.23	15.1



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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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	14.23	14.29	14.22	14.4
100	PI/2 BPSK	1	137	14.24	14.25	14.22	
100	PI/2 BPSK	1	271	13.94	14.00	13.97	
100	PI/2 BPSK	135	0	13.85	13.93	13.83	14.4
100	PI/2 BPSK	135	69	14.15	14.24	14.17	14.4
100	PI/2 BPSK	135	138	14.05	14.10	14.09	14.4
100	PI/2 BPSK	270	0	14.00	14.01	13.97	
100	QPSK	1	1	14.17	14.24	14.24	14.4
100	QPSK	1	137	14.18	14.26	14.23	
100	QPSK	1	271	14.00	14.00	13.94	
100	QPSK	135	0	13.92	13.93	13.90	14.4
100	QPSK	135	69	14.19	14.25	14.15	
100	QPSK	135	138	14.09	14.09	14.04	
100	QPSK	270	0	13.97	14.01	14.01	14.4
100	16QAM	1	1	14.23	14.25	14.23	14.4
100	64QAM	1	1	14.09	14.19	14.10	14.4
100	256QAM	1	1	14.11	14.21	14.20	14.4
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	14.07	14.16	14.14	14.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	14.08	14.22	14.23	14.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	14.15	14.16	14.23	14.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	14.11	14.16	14.23	14.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	14.09	14.17	14.19	14.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	14.07	14.19	14.16	14.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	14.16	14.24	14.20	14.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	14.11	14.24	14.21	14.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.15	14.22	14.21	14.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	14.11	14.15	14.16	14.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.10	14.24	14.22	14.4



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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		14.4
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.29		14.4
100	PI/2 BPSK	1	137		14.11		
100	PI/2 BPSK	1	271		13.90		14.4
100	PI/2 BPSK	135	0		14.23		
100	PI/2 BPSK	135	69		14.09		14.4
100	PI/2 BPSK	135	138		13.93		
100	PI/2 BPSK	270	0		14.04		14.4
100	QPSK	1	1		14.28		
100	QPSK	1	137		14.11		14.4
100	QPSK	1	271		13.91		
100	QPSK	135	0		14.23		14.4
100	QPSK	135	69		14.08		
100	QPSK	135	138		13.94		14.4
100	QPSK	270	0		14.04		
100	16QAM	1	1		14.26		14.4
100	64QAM	1	1		14.20		14.4
100	256QAM	1	1		14.21		14.4
Channel				633000	633332	633666	14.4
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.27	14.25	14.24	14.4
Channel				632668	633332	634000	14.4
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.27	14.19	14.14	14.4
Channel				632334	633332	634332	14.4
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.27	14.18	14.22	14.4
Channel				632000	633332	634666	14.4
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.18	14.25	14.19	14.4
Channel				631668	633332	635000	14.4
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.26	14.18	14.24	14.4
Channel				631334	633332	635332	14.4
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.17	14.23	14.16	14.4
Channel				631000	633332	635666	14.4
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.27	14.16	14.16	14.4
Channel				630834	633332	635832	14.4
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	14.25	14.23	14.15	14.4
Channel				630668	633332	636000	14.4
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.22	14.17	14.17	14.4
Channel				630500	633332	636166	14.4
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.18	14.19	14.18	14.4
Channel				630334	633332	636332	14.4
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.27	14.25	14.23	14.4





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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				650000	656000	662000	19.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.27	18.33	18.29	19.1
100	PI/2 BPSK	1	137	18.31	18.31	18.30	
100	PI/2 BPSK	1	271	18.20	18.26	18.22	
100	PI/2 BPSK	135	0	18.18	18.20	18.12	19.1
100	PI/2 BPSK	135	69	18.20	18.30	18.25	19.1
100	PI/2 BPSK	135	138	18.20	18.23	18.17	19.1
100	PI/2 BPSK	270	0	18.12	18.17	18.17	
100	QPSK	1	1	18.28	18.30	18.26	19.1
100	QPSK	1	137	18.19	18.27	18.23	
100	QPSK	1	271	18.26	18.26	18.23	
100	QPSK	135	0	18.20	18.20	18.10	19.1
100	QPSK	135	69	18.22	18.30	18.25	
100	QPSK	135	138	18.15	18.24	18.23	
100	QPSK	270	0	18.10	18.16	18.10	19.1
100	16QAM	1	1	18.22	18.32	18.27	19.1
100	64QAM	1	1	18.17	18.25	18.17	19.1
100	256QAM	1	1	17.61	17.70	17.63	19.1
Channel				649668	656000	662332	19.1
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.28	18.21	18.16	19.1
Channel				649334	656000	662666	19.1
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.27	18.23	18.19	19.1
Channel				649000	656000	663000	19.1
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.21	18.29	18.20	19.1
Channel				648668	656000	663332	19.1
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.26	18.26	18.22	19.1
Channel				648334	656000	663666	19.1
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.25	18.22	18.26	19.1
Channel				648000	656000	664000	19.1
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.21	18.30	18.25	19.1
Channel				647668	656000	664332	19.1
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.25	18.25	18.21	19.1
Channel				647500	656000	664500	19.1
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.27	18.22	18.23	19.1
Channel				647334	656000	664666	19.1
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.25	18.26	18.26	19.1
Channel				647168	656000	664832	19.1
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.19	18.22	18.17	19.1
Channel				647000	656000	665000	19.1
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.27	18.26	18.24	19.1



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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		18.51		19.1
100	PI/2 BPSK	1	137		18.40		
100	PI/2 BPSK	1	271		18.22		
100	PI/2 BPSK	135	0		18.49		19.1
100	PI/2 BPSK	135	69		18.38		19.1
100	PI/2 BPSK	135	138		18.21		19.1
100	PI/2 BPSK	270	0		18.33		
100	QPSK	1	1		18.50		19.1
100	QPSK	1	137		18.40		
100	QPSK	1	271		18.22		
100	QPSK	135	0		18.50		19.1
100	QPSK	135	69		18.38		
100	QPSK	135	138		18.20		
100	QPSK	270	0		18.32		19.1
100	16QAM	1	1		18.49		19.1
100	64QAM	1	1		18.44		19.1
100	256QAM	1	1		17.90		19.1
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.48	18.46	18.45	19.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.48	18.43	18.38	19.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.48	18.40	18.40	19.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.47	18.41	18.45	19.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.38	18.36	18.45	19.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.38	18.45	18.35	19.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.48	18.45	18.44	19.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.45	18.42	18.41	19.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.41	18.43	18.42	19.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.43	18.43	18.43	19.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.48	18.45	18.41	19.1



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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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.25	20.26	20.24	21.3
100	PI/2 BPSK	1	137	20.23	20.25	20.21	
100	PI/2 BPSK	1	271	19.90	19.91	19.82	
100	PI/2 BPSK	135	0	19.87	19.89	19.81	21.3
100	PI/2 BPSK	135	69	20.19	20.25	20.18	21.3
100	PI/2 BPSK	135	138	20.18	20.19	20.11	21.3
100	PI/2 BPSK	270	0	19.88	19.97	19.87	
100	QPSK	1	1	20.13	20.18	20.14	21.3
100	QPSK	1	137	20.19	20.21	20.11	
100	QPSK	1	271	19.79	19.89	19.89	
100	QPSK	135	0	19.79	19.89	19.82	21.3
100	QPSK	135	69	20.14	20.15	20.07	
100	QPSK	135	138	20.12	20.17	20.10	
100	QPSK	270	0	19.87	19.92	19.92	21.3
100	16QAM	1	1	20.14	20.22	20.18	21.3
100	64QAM	1	1	19.74	19.74	19.67	21.3
100	256QAM	1	1	17.71	17.71	17.70	19.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.22	20.21	20.22	21.3
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.16	20.19	20.15	21.3
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.15	20.21	20.16	21.3
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.16	20.16	20.20	21.3
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.19	20.23	20.21	21.3
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.20	20.19	20.17	21.3
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.21	20.18	20.23	21.3
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.21	20.16	20.19	21.3
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.25	20.17	20.24	21.3
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.15	20.18	20.21	21.3
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.18	20.24	20.24	21.3



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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		20.57		21.3
100	PI/2 BPSK	1	137		20.34		
100	PI/2 BPSK	1	271		19.52		
100	PI/2 BPSK	135	0		20.45		21.3
100	PI/2 BPSK	135	69		20.31		21.3
100	PI/2 BPSK	135	138		19.89		21.3
100	PI/2 BPSK	270	0		20.28		
100	QPSK	1	1		20.56		21.3
100	QPSK	1	137		20.30		
100	QPSK	1	271		19.51		
100	QPSK	135	0		20.39		21.3
100	QPSK	135	69		20.27		
100	QPSK	135	138		19.82		
100	QPSK	270	0		20.20		21.3
100	16QAM	1	1		20.55		21.3
100	64QAM	1	1		19.99		21.3
100	256QAM	1	1		17.97		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.48	20.50	20.48	21.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.48	20.55	20.51	21.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.52	20.52	20.51	21.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.47	20.53	20.54	21.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.48	20.56	20.51	21.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.50	20.52	20.50	21.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.48	20.50	20.51	21.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.50	20.52	20.50	21.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.51	20.55	20.47	21.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.47	20.55	20.51	21.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.48	20.47	20.49	21.3



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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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.25	20.26	20.24	20.6
100	PI/2 BPSK	1	137	20.23	20.25	20.21	
100	PI/2 BPSK	1	271	19.90	19.91	19.82	
100	PI/2 BPSK	135	0	19.87	19.89	19.81	20.6
100	PI/2 BPSK	135	69	20.19	20.25	20.18	20.6
100	PI/2 BPSK	135	138	20.18	20.19	20.11	20.6
100	PI/2 BPSK	270	0	19.88	19.97	19.87	
100	QPSK	1	1	20.13	20.18	20.14	20.6
100	QPSK	1	137	20.19	20.21	20.11	
100	QPSK	1	271	19.79	19.89	19.89	
100	QPSK	135	0	19.79	19.89	19.82	20.6
100	QPSK	135	69	20.14	20.15	20.07	
100	QPSK	135	138	20.12	20.17	20.10	
100	QPSK	270	0	19.87	19.92	19.92	20.6
100	16QAM	1	1	20.14	20.22	20.18	20.6
100	64QAM	1	1	19.74	19.74	19.67	20.6
100	256QAM	1	1	17.71	17.71	17.70	19.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.22	20.21	20.22	20.6
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.16	20.19	20.15	20.6
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.15	20.21	20.16	20.6
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.16	20.16	20.20	20.6
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.19	20.23	20.21	20.6
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.20	20.19	20.17	20.6
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.21	20.18	20.23	20.6
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.21	20.16	20.19	20.6
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.25	20.17	20.24	20.6
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.15	20.18	20.21	20.6
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.18	20.24	20.24	20.6



<FR1 n77\_PC3\_Ant 5\_Index 6>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.57		20.6
100	PI/2 BPSK	1	137		20.34		
100	PI/2 BPSK	1	271		19.52		
100	PI/2 BPSK	135	0		20.45		20.6
100	PI/2 BPSK	135	69		20.31		20.6
100	PI/2 BPSK	135	138		19.89		20.6
100	PI/2 BPSK	270	0		20.28		
100	QPSK	1	1		20.56		20.6
100	QPSK	1	137		20.30		
100	QPSK	1	271		19.51		
100	QPSK	135	0		20.39		20.6
100	QPSK	135	69		20.27		
100	QPSK	135	138		19.82		
100	QPSK	270	0		20.20		20.6
100	16QAM	1	1		20.55		20.6
100	64QAM	1	1		19.99		20.6
100	256QAM	1	1		17.97		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.48	20.50	20.48	20.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.48	20.55	20.51	20.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.52	20.52	20.51	20.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.47	20.53	20.54	20.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.48	20.56	20.51	20.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.50	20.52	20.50	20.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.48	20.50	20.51	20.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.50	20.52	20.50	20.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.51	20.55	20.47	20.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.47	20.55	20.51	20.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.48	20.47	20.49	20.6



<FR1 n77\_PC2\_Ant 5\_Index 2>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	18.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.20	17.26	17.22	
100	PI/2 BPSK	1	137	17.22	17.24	17.15	18.1
100	PI/2 BPSK	1	271	16.98	17.00	16.91	
100	PI/2 BPSK	135	0	16.90	16.96	16.86	18.1
100	PI/2 BPSK	135	69	17.23	17.24	17.18	18.1
100	PI/2 BPSK	135	138	17.00	17.10	17.02	18.1
100	PI/2 BPSK	270	0	17.04	17.04	17.01	
100	QPSK	1	1	17.11	17.19	17.11	18.1
100	QPSK	1	137	17.22	17.25	17.16	
100	QPSK	1	271	16.99	16.99	16.96	
100	QPSK	135	0	16.93	16.93	16.91	18.1
100	QPSK	135	69	17.18	17.24	17.24	
100	QPSK	135	138	17.08	17.10	17.10	18.1
100	QPSK	270	0	17.02	17.05	16.99	
100	16QAM	1	1	17.19	17.25	17.24	18.1
100	64QAM	1	1	17.10	17.20	17.20	18.1
100	256QAM	1	1	17.17	17.19	17.11	18.1
Channel				649668	656000	662332	18.1
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	17.02	17.15	17.02	18.1
Channel				649334	656000	662666	18.1
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.11	17.13	17.03	18.1
Channel				649000	656000	663000	18.1
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	17.07	17.14	17.07	18.1
Channel				648668	656000	663332	18.1
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.02	17.09	17.09	18.1
Channel				648334	656000	663666	18.1
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	17.02	17.09	17.01	18.1
Channel				648000	656000	664000	18.1
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.03	17.12	17.08	18.1
Channel				647668	656000	664332	18.1
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	17.08	17.10	17.03	18.1
Channel				647500	656000	664500	18.1
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	17.11	17.13	17.04	18.1
Channel				647334	656000	664666	18.1
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.01	17.17	17.05	18.1
Channel				647168	656000	664832	18.1
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	17.08	17.17	17.09	18.1
Channel				647000	656000	665000	18.1
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	17.04	17.10	17.06	18.1



<FR1 n77\_PC2\_Ant 5\_Index 2>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.29		18.1
100	PI/2 BPSK	1	137		17.12		
100	PI/2 BPSK	1	271		16.78		
100	PI/2 BPSK	135	0		17.23		18.1
100	PI/2 BPSK	135	69		16.99		18.1
100	PI/2 BPSK	135	138		16.86		18.1
100	PI/2 BPSK	270	0		17.08		
100	QPSK	1	1		17.26		18.1
100	QPSK	1	137		17.13		
100	QPSK	1	271		16.80		
100	QPSK	135	0		17.14		18.1
100	QPSK	135	69		17.11		
100	QPSK	135	138		16.86		
100	QPSK	270	0		17.08		18.1
100	16QAM	1	1		17.10		18.1
100	64QAM	1	1		17.20		18.1
100	256QAM	1	1		17.17		18.1
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.17	17.24	17.15	18.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.16	17.17	17.20	18.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.17	17.19	17.22	18.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.11	17.22	17.14	18.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.16	17.18	17.17	18.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.11	17.22	17.20	18.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.19	17.22	17.14	18.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.17	17.25	17.18	18.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.17	17.24	17.21	18.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.11	17.25	17.20	18.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.19	17.18	17.15	18.1





<FR1 n77\_PC2\_Ant 5\_Index 3>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.20	17.26	17.22	17.4
100	PI/2 BPSK	1	137	17.22	17.24	17.15	
100	PI/2 BPSK	1	271	16.98	17.00	16.91	
100	PI/2 BPSK	135	0	16.90	16.96	16.86	17.4
100	PI/2 BPSK	135	69	17.23	17.24	17.18	17.4
100	PI/2 BPSK	135	138	17.00	17.10	17.02	17.4
100	PI/2 BPSK	270	0	17.04	17.04	17.01	
100	QPSK	1	1	17.11	17.19	17.11	17.4
100	QPSK	1	137	17.22	17.25	17.16	
100	QPSK	1	271	16.99	16.99	16.96	
100	QPSK	135	0	16.93	16.93	16.91	17.4
100	QPSK	135	69	17.18	17.24	17.24	
100	QPSK	135	138	17.08	17.10	17.10	
100	QPSK	270	0	17.02	17.05	16.99	17.4
100	16QAM	1	1	17.19	17.25	17.24	17.4
100	64QAM	1	1	17.10	17.20	17.20	17.4
100	256QAM	1	1	17.17	17.19	17.11	17.4
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	17.02	17.15	17.02	17.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.11	17.13	17.03	17.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	17.07	17.14	17.07	17.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.02	17.09	17.09	17.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	17.02	17.09	17.01	17.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.03	17.12	17.08	17.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	17.08	17.10	17.03	17.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	17.11	17.13	17.04	17.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.01	17.17	17.05	17.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	17.08	17.17	17.09	17.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	17.04	17.10	17.06	17.4



<FR1 n77\_PC2\_Ant 5\_Index 3>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.29		17.4
100	PI/2 BPSK	1	137		17.12		
100	PI/2 BPSK	1	271		16.78		
100	PI/2 BPSK	135	0		17.23		17.4
100	PI/2 BPSK	135	69		16.99		17.4
100	PI/2 BPSK	135	138		16.86		17.4
100	PI/2 BPSK	270	0		17.08		
100	QPSK	1	1		17.26		17.4
100	QPSK	1	137		17.13		
100	QPSK	1	271		16.80		
100	QPSK	135	0		17.14		17.4
100	QPSK	135	69		17.11		
100	QPSK	135	138		16.86		
100	QPSK	270	0		17.08		17.4
100	16QAM	1	1		17.10		17.4
100	64QAM	1	1		17.20		17.4
100	256QAM	1	1		17.17		17.4
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.17	17.24	17.15	17.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.16	17.17	17.20	17.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.17	17.19	17.22	17.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.11	17.22	17.14	17.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.16	17.18	17.17	17.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.11	17.22	17.20	17.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.19	17.22	17.14	17.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.17	17.25	17.18	17.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.17	17.24	17.21	17.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.11	17.25	17.20	17.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.19	17.18	17.15	17.4



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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				650000	656000	662000	22.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.50	21.52	21.44	
100	PI/2 BPSK	1	137	21.52	21.59	21.56	22.1
100	PI/2 BPSK	1	271	21.30	21.32	21.27	
100	PI/2 BPSK	135	0	21.19	21.27	21.20	
100	PI/2 BPSK	135	69	21.49	21.58	21.49	22.1
100	PI/2 BPSK	135	138	21.40	21.42	21.38	
100	PI/2 BPSK	270	0	21.30	21.36	21.36	
100	QPSK	1	1	21.46	21.51	21.48	22.1
100	QPSK	1	137	21.54	21.58	21.57	
100	QPSK	1	271	21.24	21.33	21.27	
100	QPSK	135	0	21.28	21.28	21.23	22.1
100	QPSK	135	69	21.47	21.57	21.49	
100	QPSK	135	138	21.31	21.41	21.38	
100	QPSK	270	0	21.35	21.37	21.30	22.1
100	16QAM	1	1	21.41	21.50	21.42	
100	64QAM	1	1	21.46	21.46	21.40	
100	256QAM	1	1	20.90	21.00	21.00	22.1
Channel				649668	656000	662332	22.1
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.42	21.49	21.41	
Channel				649334	656000	662666	22.1
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.45	21.52	21.40	
Channel				649000	656000	663000	22.1
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.45	21.47	21.37	
Channel				648668	656000	663332	22.1
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.43	21.50	21.38	
Channel				648334	656000	663666	22.1
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.48	21.49	21.38	
Channel				648000	656000	664000	22.1
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.43	21.47	21.36	
Channel				647668	656000	664332	22.1
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.40	21.52	21.41	
Channel				647500	656000	664500	22.1
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.48	21.51	21.42	
Channel				647334	656000	664666	22.1
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.45	21.47	21.40	
Channel				647168	656000	664832	22.1
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.41	21.52	21.34	
Channel				647000	656000	665000	22.1
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.41	21.45	21.40	



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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		21.74		22.1
100	PI/2 BPSK	1	137		21.63		
100	PI/2 BPSK	1	271		21.17		
100	PI/2 BPSK	135	0		21.73		22.1
100	PI/2 BPSK	135	69		21.61		22.1
100	PI/2 BPSK	135	138		21.36		22.1
100	PI/2 BPSK	270	0		21.58		
100	QPSK	1	1		21.73		22.1
100	QPSK	1	137		21.65		
100	QPSK	1	271		21.17		
100	QPSK	135	0		21.73		22.1
100	QPSK	135	69		21.61		
100	QPSK	135	138		21.36		
100	QPSK	270	0		21.58		22.1
100	16QAM	1	1		21.73		22.1
100	64QAM	1	1		21.68		22.1
100	256QAM	1	1		21.16		22.1
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.70	21.72	21.71	22.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.62	21.70	21.62	22.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.69	21.63	21.62	22.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.67	21.70	21.65	22.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.64	21.65	21.68	22.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.66	21.62	21.66	22.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.66	21.67	21.61	22.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.70	21.70	21.62	22.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.66	21.68	21.71	22.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.70	21.71	21.69	22.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.64	21.65	21.65	22.1



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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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.01	23.06	22.97	24.3
100	PI/2 BPSK	1	137	23.19	23.21	23.13	
100	PI/2 BPSK	1	271	22.73	22.74	22.65	
100	PI/2 BPSK	135	0	22.82	22.86	22.86	24.3
100	PI/2 BPSK	135	69	23.20	23.20	23.20	24.3
100	PI/2 BPSK	135	138	23.13	23.14	23.10	24.3
100	PI/2 BPSK	270	0	22.88	22.90	22.81	
100	QPSK	1	1	22.93	23.01	22.96	24.3
100	QPSK	1	137	23.12	23.12	23.03	
100	QPSK	1	271	22.63	22.64	22.58	
100	QPSK	135	0	22.75	22.82	22.72	24.3
100	QPSK	135	69	23.07	23.11	23.06	
100	QPSK	135	138	23.07	23.07	23.07	
100	QPSK	270	0	22.85	22.89	22.81	24.3
100	16QAM	1	1	23.10	23.17	23.14	24.3
100	64QAM	1	1	22.57	22.59	22.59	24.3
100	256QAM	1	1	20.57	20.66	20.63	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.91	23.03	22.89	24.3
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.98	23.02	22.92	24.3
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.00	22.98	22.91	24.3
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.94	22.99	22.87	24.3
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.00	23.06	22.94	24.3
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.96	23.02	22.95	24.3
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.97	23.04	22.89	24.3
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.95	23.02	22.90	24.3
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.98	23.03	22.97	24.3
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.01	23.06	22.94	24.3
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.01	22.98	22.96	24.3



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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		23.55		24.3
100	PI/2 BPSK	1	137		23.43		
100	PI/2 BPSK	1	271		22.50		
100	PI/2 BPSK	135	0		23.49		24.3
100	PI/2 BPSK	135	69		23.41		24.3
100	PI/2 BPSK	135	138		22.96		24.3
100	PI/2 BPSK	270	0		23.36		
100	QPSK	1	1		23.54		24.3
100	QPSK	1	137		23.35		
100	QPSK	1	271		22.50		
100	QPSK	135	0		23.39		24.3
100	QPSK	135	69		23.33		
100	QPSK	135	138		22.92		
100	QPSK	270	0		23.35		24.3
100	16QAM	1	1		23.54		24.3
100	64QAM	1	1		22.98		24.3
100	256QAM	1	1		21.00		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.49	23.45	23.50	24.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.45	23.52	23.50	24.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.46	23.45	23.49	24.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.51	23.46	23.45	24.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.53	23.51	23.45	24.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.50	23.45	23.53	24.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.53	23.48	23.48	24.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.53	23.46	23.53	24.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.49	23.47	23.49	24.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.45	23.51	23.50	24.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.51	23.51	23.49	24.3



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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				650000	656000	662000	23.6
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.01	23.06	22.97	23.6
100	PI/2 BPSK	1	137	23.19	23.21	23.13	
100	PI/2 BPSK	1	271	22.73	22.74	22.65	
100	PI/2 BPSK	135	0	22.82	22.86	22.86	23.6
100	PI/2 BPSK	135	69	23.20	23.20	23.20	23.6
100	PI/2 BPSK	135	138	23.13	23.14	23.10	23.6
100	PI/2 BPSK	270	0	22.88	22.90	22.81	
100	QPSK	1	1	22.93	23.01	22.96	23.6
100	QPSK	1	137	23.12	23.12	23.03	
100	QPSK	1	271	22.63	22.64	22.58	
100	QPSK	135	0	22.75	22.82	22.72	23.6
100	QPSK	135	69	23.07	23.11	23.06	
100	QPSK	135	138	23.07	23.07	23.07	
100	QPSK	270	0	22.85	22.89	22.81	23.6
100	16QAM	1	1	23.10	23.17	23.14	23.6
100	64QAM	1	1	22.57	22.59	22.59	23.6
100	256QAM	1	1	20.57	20.66	20.63	22.5
Channel				649668	656000	662332	23.6
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.91	23.03	22.89	23.6
Channel				649334	656000	662666	23.6
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.98	23.02	22.92	23.6
Channel				649000	656000	663000	23.6
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.00	22.98	22.91	23.6
Channel				648668	656000	663332	23.6
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.94	22.99	22.87	23.6
Channel				648334	656000	663666	23.6
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.00	23.06	22.94	23.6
Channel				648000	656000	664000	23.6
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.96	23.02	22.95	23.6
Channel				647668	656000	664332	23.6
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.97	23.04	22.89	23.6
Channel				647500	656000	664500	23.6
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.95	23.02	22.90	23.6
Channel				647334	656000	664666	23.6
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.98	23.03	22.97	23.6
Channel				647168	656000	664832	23.6
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.01	23.06	22.94	23.6
Channel				647000	656000	665000	23.6
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.01	22.98	22.96	23.6



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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		23.55		23.6
100	PI/2 BPSK	1	137		23.43		
100	PI/2 BPSK	1	271		22.50		
100	PI/2 BPSK	135	0		23.49		23.6
100	PI/2 BPSK	135	69		23.41		23.6
100	PI/2 BPSK	135	138		22.96		23.6
100	PI/2 BPSK	270	0		23.36		
100	QPSK	1	1		23.54		23.6
100	QPSK	1	137		23.35		
100	QPSK	1	271		22.50		
100	QPSK	135	0		23.39		23.6
100	QPSK	135	69		23.33		
100	QPSK	135	138		22.92		
100	QPSK	270	0		23.35		23.6
100	16QAM	1	1		23.54		23.6
100	64QAM	1	1		22.98		23.6
100	256QAM	1	1		21.00		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.49	23.45	23.50	23.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.45	23.52	23.50	23.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.46	23.45	23.49	23.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.51	23.46	23.45	23.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.53	23.51	23.45	23.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.50	23.45	23.53	23.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.53	23.48	23.48	23.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.53	23.46	23.53	23.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.49	23.47	23.49	23.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.45	23.51	23.50	23.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.51	23.51	23.49	23.6





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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	656000	662000	22.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.44	21.45	21.43	
100	PI/2 BPSK	1	137	21.23	21.26	21.16	22.2
100	PI/2 BPSK	1	271	20.91	20.96	20.92	
100	PI/2 BPSK	135	0	21.15	21.20	21.19	
100	PI/2 BPSK	135	69	21.21	21.21	21.13	22.2
100	PI/2 BPSK	135	138	21.10	21.20	21.12	
100	PI/2 BPSK	270	0	21.27	21.37	21.37	
100	QPSK	1	1	21.34	21.40	21.37	22.2
100	QPSK	1	137	21.32	21.41	21.40	
100	QPSK	1	271	21.29	21.39	21.37	
100	QPSK	135	0	21.30	21.35	21.33	22.2
100	QPSK	135	69	21.37	21.37	21.37	
100	QPSK	135	138	21.34	21.42	21.35	
100	QPSK	270	0	21.33	21.38	21.32	22.2
100	16QAM	1	1	21.29	21.35	21.34	
100	64QAM	1	1	21.03	21.07	21.01	
100	256QAM	1	1	18.97	19.05	18.98	19.7
Channel				649668	656000	662332	22.2
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.24	21.21	21.17	
Channel				649334	656000	662666	22.2
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.18	21.17	21.21	
Channel				649000	656000	663000	22.2
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.21	21.19	21.23	
Channel				648668	656000	663332	22.2
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.19	21.19	21.19	
Channel				648334	656000	663666	22.2
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.22	21.26	21.19	
Channel				648000	656000	664000	22.2
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.24	21.21	21.20	
Channel				647668	656000	664332	22.2
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.19	21.19	21.17	
Channel				647500	656000	664500	22.2
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.18	21.24	21.23	
Channel				647334	656000	664666	22.2
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.20	21.16	21.20	
Channel				647168	656000	664832	22.2
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.24	21.26	21.20	
Channel				647000	656000	665000	22.2
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.26	21.16	21.20	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.23		22.2
100	PI/2 BPSK	1	137		21.11		
100	PI/2 BPSK	1	271		21.15		
100	PI/2 BPSK	135	0		21.11		22.2
100	PI/2 BPSK	135	69		21.12		22.2
100	PI/2 BPSK	135	138		21.06		22.2
100	PI/2 BPSK	270	0		21.07		
100	QPSK	1	1		21.20		22.2
100	QPSK	1	137		21.11		
100	QPSK	1	271		21.09		
100	QPSK	135	0		21.02		22.2
100	QPSK	135	69		21.09		
100	QPSK	135	138		21.03		
100	QPSK	270	0		21.03		22.2
100	16QAM	1	1		21.15		22.2
100	64QAM	1	1		20.91		21.7
100	256QAM	1	1		18.94		19.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.08	21.10	21.09	22.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.10	21.06	21.08	22.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.03	21.04	21.09	22.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.10	21.04	21.08	22.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.04	21.09	21.09	22.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.08	21.08	21.07	22.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.03	21.05	21.10	22.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.10	21.07	21.07	22.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.10	21.04	21.04	22.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.06	21.09	21.07	22.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.08	21.04	21.11	22.2



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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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.44	21.45	21.43	21.5
100	PI/2 BPSK	1	137	21.23	21.26	21.16	
100	PI/2 BPSK	1	271	20.91	20.96	20.92	
100	PI/2 BPSK	135	0	21.15	21.20	21.19	21.5
100	PI/2 BPSK	135	69	21.21	21.21	21.13	21.5
100	PI/2 BPSK	135	138	21.10	21.20	21.12	21.5
100	PI/2 BPSK	270	0	21.27	21.37	21.37	
100	QPSK	1	1	21.34	21.40	21.37	21.5
100	QPSK	1	137	21.32	21.41	21.40	
100	QPSK	1	271	21.29	21.39	21.37	
100	QPSK	135	0	21.30	21.35	21.33	21.5
100	QPSK	135	69	21.37	21.37	21.37	
100	QPSK	135	138	21.34	21.42	21.35	
100	QPSK	270	0	21.33	21.38	21.32	21.5
100	16QAM	1	1	21.29	21.35	21.34	21.5
100	64QAM	1	1	21.03	21.07	21.01	21.5
100	256QAM	1	1	18.97	19.05	18.98	19.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.24	21.21	21.17	21.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.18	21.17	21.21	21.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.21	21.19	21.23	21.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.19	21.19	21.19	21.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.22	21.26	21.19	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.24	21.21	21.20	21.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.19	21.19	21.17	21.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.18	21.24	21.23	21.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.20	21.16	21.20	21.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.24	21.26	21.20	21.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.26	21.16	21.20	21.5



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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		21.23		21.5
100	PI/2 BPSK	1	137		21.11		
100	PI/2 BPSK	1	271		21.15		
100	PI/2 BPSK	135	0		21.11		21.5
100	PI/2 BPSK	135	69		21.12		21.5
100	PI/2 BPSK	135	138		21.06		21.5
100	PI/2 BPSK	270	0		21.07		
100	QPSK	1	1		21.20		21.5
100	QPSK	1	137		21.11		
100	QPSK	1	271		21.09		
100	QPSK	135	0		21.02		21.5
100	QPSK	135	69		21.09		
100	QPSK	135	138		21.03		
100	QPSK	270	0		21.03		21.5
100	16QAM	1	1		21.15		21.5
100	64QAM	1	1		20.91		21.5
100	256QAM	1	1		18.94		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.08	21.10	21.09	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.10	21.06	21.08	21.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.03	21.04	21.09	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.10	21.04	21.08	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.04	21.09	21.09	21.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.08	21.08	21.07	21.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.03	21.05	21.10	21.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.10	21.07	21.07	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.10	21.04	21.04	21.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.06	21.09	21.07	21.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.08	21.04	21.11	21.5



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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	656000	662000	17.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.19	17.25	17.18	17.5
100	PI/2 BPSK	1	137	17.02	17.06	16.96	
100	PI/2 BPSK	1	271	16.52	16.56	16.46	17.5
100	PI/2 BPSK	135	0	17.11	17.15	17.13	
100	PI/2 BPSK	135	69	17.02	17.05	17.01	17.5
100	PI/2 BPSK	135	138	16.87	16.91	16.90	
100	PI/2 BPSK	270	0	16.92	17.00	16.90	17.5
100	QPSK	1	1	17.23	17.24	17.17	
100	QPSK	1	137	17.05	17.06	17.01	17.5
100	QPSK	1	271	16.47	16.55	16.45	
100	QPSK	135	0	17.12	17.15	17.15	17.5
100	QPSK	135	69	17.04	17.05	16.96	
100	QPSK	135	138	16.91	16.91	16.90	17.5
100	QPSK	270	0	16.91	16.99	16.89	
100	16QAM	1	1	17.24	17.24	17.15	17.5
100	64QAM	1	1	17.11	17.20	17.18	
100	256QAM	1	1	17.17	17.18	17.18	17.5
Channel				649668	656000	662332	
Frequency (MHz)				3745.02	3840	3934.98	17.5
90	PI/2 BPSK	1	1	17.15	17.23	17.07	
Channel				649334	656000	662666	17.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.19	17.22	17.09	17.5
Channel				649000	656000	663000	
Frequency (MHz)				3735	3840	3945	17.5
70	PI/2 BPSK	1	1	17.18	17.24	17.12	
Channel				648668	656000	663332	17.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.16	17.17	17.09	17.5
Channel				648334	656000	663666	
Frequency (MHz)				3725.01	3840	3954.99	17.5
50	PI/2 BPSK	1	1	17.21	17.14	17.09	
Channel				648000	656000	664000	17.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.13	17.18	17.07	17.5
Channel				647668	656000	664332	
Frequency (MHz)				3715.02	3840.00	3964.98	17.5
30	PI/2 BPSK	1	1	17.20	17.16	17.14	
Channel				647500	656000	664500	17.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	17.20	17.21	17.08	17.5
Channel				647334	656000	664666	
Frequency (MHz)				3710.01	3840	3969.99	17.5
20	PI/2 BPSK	1	1	17.16	17.23	17.10	
Channel				647168	656000	664832	17.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	17.21	17.23	17.07	17.5
Channel				647000	656000	665000	
Frequency (MHz)				3705	3840	3975	17.5
10	PI/2 BPSK	1	1	17.18	17.24	17.10	



<FR1 n77\_PC3\_Ant 6\_Index 4>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1	16.96	16.97	16.87	17.5
100	PI/2 BPSK	1	137	16.75	16.84	16.75	
100	PI/2 BPSK	1	271	16.51	16.59	16.50	
100	PI/2 BPSK	135	0	16.88	16.89	16.80	17.5
100	PI/2 BPSK	135	69	16.70	16.78	16.74	17.5
100	PI/2 BPSK	135	138	16.72	16.73	16.73	17.5
100	PI/2 BPSK	270	0	16.74	16.76	16.74	
100	QPSK	1	1	16.96	16.96	16.92	17.5
100	QPSK	1	137	16.78	16.83	16.79	
100	QPSK	1	271	16.50	16.59	16.56	
100	QPSK	135	0	16.79	16.85	16.75	17.5
100	QPSK	135	69	16.78	16.78	16.74	
100	QPSK	135	138	16.64	16.74	16.66	
100	QPSK	270	0	16.74	16.76	16.67	17.5
100	16QAM	1	1	16.89	16.96	16.96	17.5
100	64QAM	1	1	16.81	16.91	16.90	17.5
100	256QAM	1	1	16.90	16.92	16.87	17.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.89	16.89	16.89	17.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.89	16.95	16.83	17.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.88	16.94	16.85	17.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.88	16.86	16.89	17.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.89	16.94	16.82	17.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.95	16.93	16.83	17.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.96	16.94	16.83	17.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.87	16.86	16.92	17.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.90	16.87	16.84	17.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.94	16.90	16.86	17.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.95	16.93	16.88	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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.24	19.33	19.30	20.4
100	PI/2 BPSK	1	137	19.29	19.31	19.21	
100	PI/2 BPSK	1	271	18.59	18.60	18.52	
100	PI/2 BPSK	135	0	18.96	19.02	18.99	20.4
100	PI/2 BPSK	135	69	19.23	19.26	19.23	20.4
100	PI/2 BPSK	135	138	19.02	19.05	19.01	20.4
100	PI/2 BPSK	270	0	18.98	19.01	18.93	
100	QPSK	1	1	19.22	19.28	19.18	20.4
100	QPSK	1	137	19.22	19.25	19.15	
100	QPSK	1	271	18.43	18.52	18.50	
100	QPSK	135	0	19.01	19.02	19.02	20.4
100	QPSK	135	69	19.23	19.26	19.19	
100	QPSK	135	138	18.88	18.95	18.94	
100	QPSK	270	0	18.96	18.97	18.96	20.4
100	16QAM	1	1	19.22	19.32	19.23	20.4
100	64QAM	1	1	19.20	19.26	19.18	20.4
100	256QAM	1	1	19.25	19.25	19.16	19.9
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.18	19.26	19.25	20.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.20	19.26	19.20	20.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.17	19.30	19.29	20.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.14	19.24	19.20	20.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.14	19.23	19.23	20.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.23	19.29	19.28	20.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.23	19.32	19.23	20.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.17	19.23	19.30	20.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.24	19.29	19.21	20.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.24	19.26	19.21	20.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.19	19.31	19.20	20.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.04		20.4
100	PI/2 BPSK	1	137		18.95		
100	PI/2 BPSK	1	271		18.63		
100	PI/2 BPSK	135	0		18.95		20.4
100	PI/2 BPSK	135	69		18.96		20.4
100	PI/2 BPSK	135	138		18.81		20.4
100	PI/2 BPSK	270	0		18.84		
100	QPSK	1	1		18.99		20.4
100	QPSK	1	137		18.92		
100	QPSK	1	271		18.54		
100	QPSK	135	0		18.85		20.4
100	QPSK	135	69		18.83		
100	QPSK	135	138		18.77		
100	QPSK	270	0		18.77		20.4
100	16QAM	1	1		18.98		20.4
100	64QAM	1	1		18.90		20.4
100	256QAM	1	1		18.88		19.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.00	18.96	18.99	20.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.98	19.02	19.00	20.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.00	18.99	18.97	20.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.00	18.98	18.96	20.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.00	18.95	19.02	20.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.01	19.03	19.00	20.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.02	18.99	19.00	20.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.98	19.00	18.96	20.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.98	19.02	19.03	20.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.98	18.95	19.03	20.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.94	19.03	19.03	20.4





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.24	19.33	19.30	19.7
100	PI/2 BPSK	1	137	19.29	19.31	19.21	
100	PI/2 BPSK	1	271	18.59	18.60	18.52	
100	PI/2 BPSK	135	0	18.96	19.02	18.99	19.7
100	PI/2 BPSK	135	69	19.23	19.26	19.23	19.7
100	PI/2 BPSK	135	138	19.02	19.05	19.01	19.7
100	PI/2 BPSK	270	0	18.98	19.01	18.93	19.7
100	QPSK	1	1	19.22	19.28	19.18	
100	QPSK	1	137	19.22	19.25	19.15	
100	QPSK	1	271	18.43	18.52	18.50	19.7
100	QPSK	135	0	19.01	19.02	19.02	
100	QPSK	135	69	19.23	19.26	19.19	
100	QPSK	135	138	18.88	18.95	18.94	19.7
100	QPSK	270	0	18.96	18.97	18.96	
100	16QAM	1	1	19.22	19.32	19.23	
100	64QAM	1	1	19.20	19.26	19.18	19.7
100	256QAM	1	1	19.25	19.25	19.16	19.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.18	19.26	19.25	19.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.20	19.26	19.20	19.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.17	19.30	19.29	19.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.14	19.24	19.20	19.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.14	19.23	19.23	19.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.23	19.29	19.28	19.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.23	19.32	19.23	19.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.17	19.23	19.30	19.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.24	19.29	19.21	19.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.24	19.26	19.21	19.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.19	19.31	19.20	19.7



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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		19.04		19.7
100	PI/2 BPSK	1	137		18.95		
100	PI/2 BPSK	1	271		18.63		
100	PI/2 BPSK	135	0		18.95		19.7
100	PI/2 BPSK	135	69		18.96		19.7
100	PI/2 BPSK	135	138		18.81		19.7
100	PI/2 BPSK	270	0		18.84		
100	QPSK	1	1		18.99		19.7
100	QPSK	1	137		18.92		
100	QPSK	1	271		18.54		
100	QPSK	135	0		18.85		19.7
100	QPSK	135	69		18.83		
100	QPSK	135	138		18.77		
100	QPSK	270	0		18.77		19.7
100	16QAM	1	1		18.98		19.7
100	64QAM	1	1		18.90		19.7
100	256QAM	1	1		18.88		19.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.00	18.96	18.99	19.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.98	19.02	19.00	19.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.00	18.99	18.97	19.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.00	18.98	18.96	19.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.00	18.95	19.02	19.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.01	19.03	19.00	19.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.02	18.99	19.00	19.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.98	19.00	18.96	19.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.98	19.02	19.03	19.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.98	18.95	19.03	19.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.94	19.03	19.03	19.7



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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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.25	24.35	24.25	25.4
100	PI/2 BPSK	1	137	24.11	24.20	24.13	
100	PI/2 BPSK	1	271	24.13	24.15	24.14	
100	PI/2 BPSK	135	0	24.25	24.25	24.21	25.4
100	PI/2 BPSK	135	69	24.21	24.26	24.18	25.4
100	PI/2 BPSK	135	138	24.18	24.23	24.19	25.4
100	PI/2 BPSK	270	0	24.34	24.36	24.26	
100	QPSK	1	1	24.23	24.31	24.31	25.4
100	QPSK	1	137	24.06	24.12	24.02	
100	QPSK	1	271	24.07	24.09	23.99	
100	QPSK	135	0	24.16	24.21	24.16	25.4
100	QPSK	135	69	24.22	24.26	24.19	
100	QPSK	135	138	24.11	24.20	24.18	
100	QPSK	270	0	24.26	24.33	24.24	25.4
100	16QAM	1	1	24.07	24.10	24.03	25.4
100	64QAM	1	1	23.96	24.01	24.04	24.9
100	256QAM	1	1	22.22	22.23	22.13	22.9
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.06	24.15	24.04	25.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.11	24.19	24.13	25.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.10	24.14	24.04	25.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.11	24.17	24.10	25.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.06	24.15	24.05	25.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.11	24.15	24.11	25.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.04	24.18	24.04	25.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.11	24.10	24.11	25.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.04	24.09	24.03	25.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.09	24.18	24.11	25.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.07	24.09	24.04	25.4



<FR1 n77\_PC2\_Ant 6\_Index 2>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.20		25.4
100	PI/2 BPSK	1	137		24.11		
100	PI/2 BPSK	1	271		24.13		
100	PI/2 BPSK	135	0		24.13		25.4
100	PI/2 BPSK	135	69		24.14		25.4
100	PI/2 BPSK	135	138		24.10		25.4
100	PI/2 BPSK	270	0		24.12		
100	QPSK	1	1		24.15		25.4
100	QPSK	1	137		24.06		
100	QPSK	1	271		24.06		
100	QPSK	135	0		24.06		25.4
100	QPSK	135	69		24.06		
100	QPSK	135	138		24.07		
100	QPSK	270	0		24.05		25.4
100	16QAM	1	1		24.10		25.4
100	64QAM	1	1		23.86		24.9
100	256QAM	1	1		21.97		22.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.09	24.06	24.02	25.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.03	24.10	24.03	25.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.02	24.11	24.01	25.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.08	24.09	24.07	25.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.04	24.05	24.05	25.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.11	24.11	24.02	25.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.06	24.02	24.11	25.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.10	24.06	24.08	25.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.01	24.10	24.05	25.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.03	24.09	24.04	25.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.06	24.02	24.04	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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.25	24.35	24.25	24.7
100	PI/2 BPSK	1	137	24.11	24.20	24.13	
100	PI/2 BPSK	1	271	24.13	24.15	24.14	
100	PI/2 BPSK	135	0	24.25	24.25	24.21	24.7
100	PI/2 BPSK	135	69	24.21	24.26	24.18	24.7
100	PI/2 BPSK	135	138	24.18	24.23	24.19	24.7
100	PI/2 BPSK	270	0	24.34	24.36	24.26	
100	QPSK	1	1	24.23	24.31	24.31	24.7
100	QPSK	1	137	24.06	24.12	24.02	
100	QPSK	1	271	24.07	24.09	23.99	
100	QPSK	135	0	24.16	24.21	24.16	24.7
100	QPSK	135	69	24.22	24.26	24.19	
100	QPSK	135	138	24.11	24.20	24.18	
100	QPSK	270	0	24.26	24.33	24.24	24.7
100	16QAM	1	1	24.07	24.10	24.03	24.7
100	64QAM	1	1	23.96	24.01	24.04	24.7
100	256QAM	1	1	22.22	22.23	22.13	22.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.06	24.15	24.04	24.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.11	24.19	24.13	24.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.10	24.14	24.04	24.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.11	24.17	24.10	24.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.06	24.15	24.05	24.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.11	24.15	24.11	24.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.04	24.18	24.04	24.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.11	24.10	24.11	24.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.04	24.09	24.03	24.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.09	24.18	24.11	24.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.07	24.09	24.04	24.7



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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		24.20		24.7
100	PI/2 BPSK	1	137		24.11		
100	PI/2 BPSK	1	271		24.13		
100	PI/2 BPSK	135	0		24.13		24.7
100	PI/2 BPSK	135	69		24.14		24.7
100	PI/2 BPSK	135	138		24.10		24.7
100	PI/2 BPSK	270	0		24.12		
100	QPSK	1	1		24.15		24.7
100	QPSK	1	137		24.06		
100	QPSK	1	271		24.06		
100	QPSK	135	0		24.06		24.7
100	QPSK	135	69		24.06		
100	QPSK	135	138		24.07		
100	QPSK	270	0		24.05		24.7
100	16QAM	1	1		24.10		24.7
100	64QAM	1	1		23.86		24.7
100	256QAM	1	1		21.97		22.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.09	24.06	24.02	24.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.03	24.10	24.03	24.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.02	24.11	24.01	24.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.08	24.09	24.07	24.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.04	24.05	24.05	24.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.11	24.11	24.02	24.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.06	24.02	24.11	24.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.10	24.06	24.08	24.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.01	24.10	24.05	24.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.03	24.09	24.04	24.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.06	24.02	24.04	24.7



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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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.36	20.42	20.41	20.7
100	PI/2 BPSK	1	137	20.11	20.21	20.16	
100	PI/2 BPSK	1	271	19.94	19.95	19.86	
100	PI/2 BPSK	135	0	20.35	20.41	20.40	20.7
100	PI/2 BPSK	135	69	20.20	20.20	20.14	20.7
100	PI/2 BPSK	135	138	20.26	20.27	20.19	20.7
100	PI/2 BPSK	270	0	20.29	20.33	20.27	
100	QPSK	1	1	20.36	20.39	20.34	20.7
100	QPSK	1	137	20.11	20.19	20.12	
100	QPSK	1	271	19.90	19.96	19.89	
100	QPSK	135	0	20.27	20.34	20.26	20.7
100	QPSK	135	69	20.10	20.19	20.09	
100	QPSK	135	138	20.17	20.26	20.19	
100	QPSK	270	0	20.28	20.32	20.23	20.7
100	16QAM	1	1	20.31	20.40	20.32	20.7
100	64QAM	1	1	20.24	20.33	20.31	20.7
100	256QAM	1	1	20.28	20.32	20.28	20.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.36	20.32	20.33	20.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.27	20.39	20.31	20.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.34	20.34	20.34	20.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.36	20.35	20.37	20.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.30	20.35	20.35	20.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.28	20.37	20.40	20.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.28	20.37	20.40	20.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.36	20.38	20.40	20.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.28	20.35	20.33	20.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.35	20.34	20.33	20.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.28	20.41	20.38	20.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.15		20.7
100	PI/2 BPSK	1	137		20.01		
100	PI/2 BPSK	1	271		19.85		
100	PI/2 BPSK	135	0		20.08		20.7
100	PI/2 BPSK	135	69		19.99		20.7
100	PI/2 BPSK	135	138		20.00		20.7
100	PI/2 BPSK	270	0		19.96		
100	QPSK	1	1		20.14		20.7
100	QPSK	1	137		19.99		
100	QPSK	1	271		19.82		
100	QPSK	135	0		20.08		20.7
100	QPSK	135	69		19.99		
100	QPSK	135	138		20.00		
100	QPSK	270	0		19.96		20.7
100	16QAM	1	1		20.14		20.7
100	64QAM	1	1		20.04		20.7
100	256QAM	1	1		20.03		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.13	20.11	20.14	20.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.03	20.06	20.14	20.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.05	20.01	20.14	20.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.07	20.06	20.12	20.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.03	20.10	20.11	20.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.04	20.04	20.04	20.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.04	20.04	20.14	20.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.09	20.11	20.11	20.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.11	20.02	20.14	20.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.08	20.05	20.08	20.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.13	20.02	20.10	20.7





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.23	22.24	22.19	23.6
100	PI/2 BPSK	1	137	22.20	22.23	22.14	
100	PI/2 BPSK	1	271	21.61	21.66	21.65	
100	PI/2 BPSK	135	0	21.88	21.96	21.90	23.6
100	PI/2 BPSK	135	69	22.15	22.22	22.18	23.6
100	PI/2 BPSK	135	138	21.99	21.99	21.95	23.6
100	PI/2 BPSK	270	0	21.90	21.95	21.86	
100	QPSK	1	1	22.11	22.19	22.19	23.6
100	QPSK	1	137	22.18	22.20	22.10	
100	QPSK	1	271	21.68	21.69	21.63	
100	QPSK	135	0	21.89	21.89	21.86	23.6
100	QPSK	135	69	22.14	22.15	22.12	
100	QPSK	135	138	21.89	21.98	21.98	
100	QPSK	270	0	21.81	21.89	21.87	23.6
100	16QAM	1	1	22.18	22.21	22.12	23.6
100	64QAM	1	1	22.07	22.12	22.03	23.6
100	256QAM	1	1	22.10	22.15	22.07	23.1
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.19	22.14	22.13	23.6
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.18	22.14	22.18	23.6
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.16	22.18	22.10	23.6
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.15	22.18	22.11	23.6
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.14	22.23	22.09	23.6
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.19	22.14	22.14	23.6
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.22	22.22	22.19	23.6
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.22	22.16	22.11	23.6
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.13	22.23	22.10	23.6
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.21	22.20	22.09	23.6
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.19	22.16	22.15	23.6



<FR1 n77\_PC2\_Ant 6\_Index 5>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.96		23.6
100	PI/2 BPSK	1	137		21.91		
100	PI/2 BPSK	1	271		21.65		
100	PI/2 BPSK	135	0		21.95		23.6
100	PI/2 BPSK	135	69		21.92		23.6
100	PI/2 BPSK	135	138		21.78		23.6
100	PI/2 BPSK	270	0		21.88		
100	QPSK	1	1		21.87		23.6
100	QPSK	1	137		21.86		
100	QPSK	1	271		21.67		
100	QPSK	135	0		21.89		23.6
100	QPSK	135	69		21.92		
100	QPSK	135	138		21.70		
100	QPSK	270	0		21.82		23.6
100	16QAM	1	1		21.88		23.6
100	64QAM	1	1		21.82		23.6
100	256QAM	1	1		21.81		23.1
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.91	21.95	21.94	23.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.88	21.86	21.86	23.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.88	21.92	21.94	23.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.92	21.94	21.95	23.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.88	21.93	21.94	23.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.88	21.93	21.95	23.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.87	21.94	21.94	23.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.86	21.92	21.89	23.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.95	21.95	21.93	23.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.95	21.86	21.94	23.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.94	21.93	21.94	23.6



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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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.23	22.24	22.19	22.9
100	PI/2 BPSK	1	137	22.20	22.23	22.14	
100	PI/2 BPSK	1	271	21.61	21.66	21.65	
100	PI/2 BPSK	135	0	21.88	21.96	21.90	22.9
100	PI/2 BPSK	135	69	22.15	22.22	22.18	22.9
100	PI/2 BPSK	135	138	21.99	21.99	21.95	22.9
100	PI/2 BPSK	270	0	21.90	21.95	21.86	
100	QPSK	1	1	22.11	22.19	22.19	22.9
100	QPSK	1	137	22.18	22.20	22.10	
100	QPSK	1	271	21.68	21.69	21.63	
100	QPSK	135	0	21.89	21.89	21.86	22.9
100	QPSK	135	69	22.14	22.15	22.12	
100	QPSK	135	138	21.89	21.98	21.98	
100	QPSK	270	0	21.81	21.89	21.87	22.9
100	16QAM	1	1	22.18	22.21	22.12	22.9
100	64QAM	1	1	22.07	22.12	22.03	22.9
100	256QAM	1	1	22.10	22.15	22.07	22.9
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.19	22.14	22.13	22.9
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.18	22.14	22.18	22.9
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.16	22.18	22.10	22.9
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.15	22.18	22.11	22.9
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.14	22.23	22.09	22.9
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.19	22.14	22.14	22.9
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.22	22.22	22.19	22.9
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.22	22.16	22.11	22.9
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.13	22.23	22.10	22.9
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.21	22.20	22.09	22.9
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.19	22.16	22.15	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		21.96		22.9
100	PI/2 BPSK	1	137		21.91		
100	PI/2 BPSK	1	271		21.67		
100	PI/2 BPSK	135	0		21.95		22.9
100	PI/2 BPSK	135	69		21.92		22.9
100	PI/2 BPSK	135	138		21.78		22.9
100	PI/2 BPSK	270	0		21.88		
100	QPSK	1	1		21.87		22.9
100	QPSK	1	137		21.86		
100	QPSK	1	271		21.67		
100	QPSK	135	0		21.89		22.9
100	QPSK	135	69		21.92		
100	QPSK	135	138		21.70		
100	QPSK	270	0		21.82		22.9
100	16QAM	1	1		21.88		22.9
100	64QAM	1	1		21.82		22.9
100	256QAM	1	1		21.81		22.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.91	21.95	21.94	22.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.88	21.86	21.86	22.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.88	21.92	21.94	22.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.92	21.94	21.95	22.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.88	21.93	21.94	22.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.88	21.93	21.95	22.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.87	21.94	21.94	22.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.86	21.92	21.89	22.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.95	21.95	21.93	22.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.95	21.86	21.94	22.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.94	21.93	21.94	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	656000	662000	24.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.82	22.56	22.57	24.0
100	PI/2 BPSK	1	137	22.55	22.41	22.56	
100	PI/2 BPSK	1	271	22.00	22.00	22.00	
100	PI/2 BPSK	135	0	22.16	22.00	22.18	23.5
100	PI/2 BPSK	135	69	22.58	22.40	22.53	24.0
100	PI/2 BPSK	135	138	21.51	21.75	21.68	23.5
100	PI/2 BPSK	270	0	22.05	21.86	22.00	
100	QPSK	1	1	22.78	22.55	22.55	24.0
100	QPSK	1	137	22.60	22.40	22.57	
100	QPSK	1	271	21.88	21.85	21.79	
100	QPSK	135	0	21.66	21.50	21.68	24.0
100	QPSK	135	69	22.58	22.42	22.55	
100	QPSK	135	138	21.02	21.24	21.18	
100	QPSK	270	0	21.54	21.36	21.49	23.0
100	16QAM	1	1	21.80	21.54	21.58	23.0
100	64QAM	1	1	20.28	20.02	20.02	21.5
100	256QAM	1	1	18.30	18.04	18.07	19.5
Channel				649668	656000	662332	24.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.31	22.44	22.39	24.0
Channel				649334	656000	662666	24.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.42	22.41	22.50	24.0
Channel				649000	656000	663000	24.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.44	22.52	22.41	24.0
Channel				648668	656000	663332	24.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.39	22.50	22.45	24.0
Channel				648334	656000	663666	24.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.45	22.42	22.50	24.0
Channel				648000	656000	664000	24.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.43	22.39	22.44	24.0
Channel				647668	656000	664332	24.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.21	22.15	22.16	24.0
Channel				647500	656000	664500	24.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.14	22.16	22.20	24.0
Channel				647334	656000	664666	24.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.22	22.32	22.34	24.0
Channel				647168	656000	664832	24.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.34	22.34	22.25	24.0
Channel				647000	656000	665000	24.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.28	22.35	22.19	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		22.81		24.0
100	PI/2 BPSK	1	137		22.59		
100	PI/2 BPSK	1	271		22.11		
100	PI/2 BPSK	135	0		21.63		23.5
100	PI/2 BPSK	135	69		22.51		24.0
100	PI/2 BPSK	135	138		21.50		23.5
100	PI/2 BPSK	270	0		21.51		
100	QPSK	1	1		22.71		24.0
100	QPSK	1	137		22.58		
100	QPSK	1	271		22.12		
100	QPSK	135	0		21.66		24.0
100	QPSK	135	69		22.57		
100	QPSK	135	138		21.46		
100	QPSK	270	0		21.55		23.0
100	16QAM	1	1		21.74		23.0
100	64QAM	1	1		20.22		21.5
100	256QAM	1	1		18.22		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.75	22.70	22.71	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.61	22.70	22.61	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.71	22.80	22.79	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.69	22.66	22.75	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.70	22.67	22.72	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.58	22.77	22.68	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.74	22.73	22.64	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.70	22.74	22.59	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.58	22.62	22.66	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.63	22.61	22.70	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.65	22.60	22.58	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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.04	20.08	20.06	20.4
100	PI/2 BPSK	1	137	19.81	19.90	19.87	
100	PI/2 BPSK	1	271	19.24	19.32	19.31	
100	PI/2 BPSK	135	0	19.89	19.95	19.92	20.4
100	PI/2 BPSK	135	69	19.79	19.86	19.80	20.4
100	PI/2 BPSK	135	138	19.66	19.71	19.62	20.4
100	PI/2 BPSK	270	0	19.77	19.81	19.80	
100	QPSK	1	1	20.03	20.05	20.01	20.4
100	QPSK	1	137	19.87	19.90	19.83	
100	QPSK	1	271	19.30	19.30	19.27	
100	QPSK	135	0	19.94	19.96	19.96	20.4
100	QPSK	135	69	19.85	19.86	19.81	
100	QPSK	135	138	19.62	19.71	19.63	
100	QPSK	270	0	19.76	19.79	19.70	20.4
100	16QAM	1	1	20.00	20.05	19.98	20.4
100	64QAM	1	1	19.89	19.98	19.88	20.4
100	256QAM	1	1	17.96	17.99	17.94	19.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.99	20.00	19.96	20.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.00	20.04	19.97	20.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.00	19.97	19.97	20.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.96	20.05	19.93	20.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.01	20.03	20.00	20.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.03	19.97	19.97	20.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.93	20.00	19.95	20.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.03	19.98	19.95	20.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.98	19.99	20.00	20.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.97	19.98	19.96	20.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.93	20.05	20.00	20.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.4
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.23		20.4
100	PI/2 BPSK	1	137		19.93		
100	PI/2 BPSK	1	271		19.52		20.4
100	PI/2 BPSK	135	0		19.98		
100	PI/2 BPSK	135	69		19.88		20.4
100	PI/2 BPSK	135	138		19.76		
100	PI/2 BPSK	270	0		19.86		20.4
100	QPSK	1	1		20.11		
100	QPSK	1	137		19.92		20.4
100	QPSK	1	271		19.48		
100	QPSK	135	0		19.99		20.4
100	QPSK	135	69		19.87		
100	QPSK	135	138		19.77		20.4
100	QPSK	270	0		19.85		
100	16QAM	1	1		20.08		20.4
100	64QAM	1	1		19.99		
100	256QAM	1	1		18.05		19.5
Channel				633000	633332	633666	20.4
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.22	20.21	20.20	20.4
Channel				632668	633332	634000	20.4
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.21	20.16	20.14	20.4
Channel				632334	633332	634332	20.4
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.22	20.16	20.19	20.4
Channel				632000	633332	634666	20.4
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.21	20.11	20.12	20.4
Channel				631668	633332	635000	20.4
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.13	20.19	20.10	20.4
Channel				631334	633332	635332	20.4
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.21	20.12	20.14	20.4
Channel				631000	633332	635666	20.4
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.12	20.13	20.14	20.4
Channel				630834	633332	635832	20.4
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.15	20.20	20.19	20.4
Channel				630668	633332	636000	20.4
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.12	20.12	20.17	20.4
Channel				630500	633332	636166	20.4
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.12	20.18	20.17	20.4
Channel				630334	633332	636332	20.4
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.15	20.16	20.11	20.4





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.04	20.08	20.06	21.1
100	PI/2 BPSK	1	137	19.81	19.90	19.87	
100	PI/2 BPSK	1	271	19.24	19.32	19.31	
100	PI/2 BPSK	135	0	19.89	19.95	19.92	21.1
100	PI/2 BPSK	135	69	19.79	19.86	19.80	21.1
100	PI/2 BPSK	135	138	19.66	19.71	19.62	21.1
100	PI/2 BPSK	270	0	19.77	19.81	19.80	
100	QPSK	1	1	20.03	20.05	20.01	21.1
100	QPSK	1	137	19.87	19.90	19.83	
100	QPSK	1	271	19.30	19.30	19.27	
100	QPSK	135	0	19.94	19.96	19.96	21.1
100	QPSK	135	69	19.85	19.86	19.81	
100	QPSK	135	138	19.62	19.71	19.63	
100	QPSK	270	0	19.76	19.79	19.70	21.1
100	16QAM	1	1	20.00	20.05	19.98	21.1
100	64QAM	1	1	19.89	19.98	19.88	21.1
100	256QAM	1	1	17.96	17.99	17.94	19.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.99	20.00	19.96	21.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.00	20.04	19.97	21.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.00	19.97	19.97	21.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.96	20.05	19.93	21.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.01	20.03	20.00	21.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.03	19.97	19.97	21.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.93	20.00	19.95	21.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.03	19.98	19.95	21.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.98	19.99	20.00	21.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.97	19.98	19.96	21.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.93	20.05	20.00	21.1



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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		20.23		21.1
100	PI/2 BPSK	1	137		19.93		
100	PI/2 BPSK	1	271		19.52		
100	PI/2 BPSK	135	0		19.98		21.1
100	PI/2 BPSK	135	69		19.88		21.1
100	PI/2 BPSK	135	138		19.76		21.1
100	PI/2 BPSK	270	0		19.86		
100	QPSK	1	1		20.11		21.1
100	QPSK	1	137		19.92		
100	QPSK	1	271		19.48		
100	QPSK	135	0		19.99		21.1
100	QPSK	135	69		19.87		
100	QPSK	135	138		19.77		
100	QPSK	270	0		19.85		21.1
100	16QAM	1	1		20.08		21.1
100	64QAM	1	1		19.99		21.1
100	256QAM	1	1		18.05		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.22	20.21	20.20	21.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.21	20.16	20.14	21.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.22	20.16	20.19	21.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.21	20.11	20.12	21.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.13	20.19	20.10	21.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.21	20.12	20.14	21.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.12	20.13	20.14	21.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.15	20.20	20.19	21.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.12	20.12	20.17	21.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.12	20.18	20.17	21.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.15	20.16	20.11	21.1



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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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.04	20.08	20.06	20.4
100	PI/2 BPSK	1	137	19.81	19.90	19.87	
100	PI/2 BPSK	1	271	19.24	19.32	19.31	
100	PI/2 BPSK	135	0	19.89	19.95	19.92	20.4
100	PI/2 BPSK	135	69	19.79	19.86	19.80	20.4
100	PI/2 BPSK	135	138	19.66	19.71	19.62	20.4
100	PI/2 BPSK	270	0	19.77	19.81	19.80	
100	QPSK	1	1	20.03	20.05	20.01	20.4
100	QPSK	1	137	19.87	19.90	19.83	
100	QPSK	1	271	19.30	19.30	19.27	
100	QPSK	135	0	19.94	19.96	19.96	20.4
100	QPSK	135	69	19.85	19.86	19.81	
100	QPSK	135	138	19.62	19.71	19.63	
100	QPSK	270	0	19.76	19.79	19.70	20.4
100	16QAM	1	1	20.00	20.05	19.98	20.4
100	64QAM	1	1	19.89	19.98	19.88	20.4
100	256QAM	1	1	17.96	17.99	17.94	19.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.99	20.00	19.96	20.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.00	20.04	19.97	20.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.00	19.97	19.97	20.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.96	20.05	19.93	20.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.01	20.03	20.00	20.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.03	19.97	19.97	20.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.93	20.00	19.95	20.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.03	19.98	19.95	20.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.98	19.99	20.00	20.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.97	19.98	19.96	20.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.93	20.05	20.00	20.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.4
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.23		20.4
100	PI/2 BPSK	1	137		19.93		
100	PI/2 BPSK	1	271		19.52		20.4
100	PI/2 BPSK	135	0		19.98		
100	PI/2 BPSK	135	69		19.88		20.4
100	PI/2 BPSK	135	138		19.76		
100	PI/2 BPSK	270	0		19.86		20.4
100	QPSK	1	1		20.11		
100	QPSK	1	137		19.92		20.4
100	QPSK	1	271		19.48		
100	QPSK	135	0		19.99		20.4
100	QPSK	135	69		19.87		
100	QPSK	135	138		19.77		20.4
100	QPSK	270	0		19.85		
100	16QAM	1	1		20.08		20.4
100	64QAM	1	1		19.99		20.4
100	256QAM	1	1		18.05		19.5
Channel				633000	633332	633666	20.4
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.22	20.21	20.20	20.4
Channel				632668	633332	634000	20.4
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.21	20.16	20.14	20.4
Channel				632334	633332	634332	20.4
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.22	20.16	20.19	20.4
Channel				632000	633332	634666	20.4
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.21	20.11	20.12	20.4
Channel				631668	633332	635000	20.4
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.13	20.19	20.10	20.4
Channel				631334	633332	635332	20.4
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.21	20.12	20.14	20.4
Channel				631000	633332	635666	20.4
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.12	20.13	20.14	20.4
Channel				630834	633332	635832	20.4
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.15	20.20	20.19	20.4
Channel				630668	633332	636000	20.4
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.12	20.12	20.17	20.4
Channel				630500	633332	636166	20.4
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.12	20.18	20.17	20.4
Channel				630334	633332	636332	20.4
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.15	20.16	20.11	20.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.55	25.29	25.20	27.0
100	PI/2 BPSK	1	137	25.31	25.11	25.34	
100	PI/2 BPSK	1	271	24.54	24.53	24.42	
100	PI/2 BPSK	135	0	24.91	24.63	24.90	26.5
100	PI/2 BPSK	135	69	25.30	25.07	25.33	27.0
100	PI/2 BPSK	135	138	24.52	24.52	24.75	26.5
100	PI/2 BPSK	270	0	24.75	24.52	24.74	
100	QPSK	1	1	25.54	25.15	25.23	27.0
100	QPSK	1	137	25.30	25.12	25.34	
100	QPSK	1	271	24.58	24.46	24.49	
100	QPSK	135	0	24.01	24.03	24.05	27.0
100	QPSK	135	69	25.32	25.10	25.35	
100	QPSK	135	138	24.03	24.03	24.02	
100	QPSK	270	0	23.76	23.51	23.70	26.0
100	16QAM	1	1	24.55	24.18	24.28	26.0
100	64QAM	1	1	22.84	22.55	22.66	24.5
100	256QAM	1	1	20.97	20.59	20.71	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.44	25.06	25.13	27.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.43	25.08	25.15	27.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.47	25.23	25.43	27.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.45	25.22	25.41	27.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.42	25.18	25.43	27.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.41	25.17	25.41	27.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.44	25.02	25.21	27.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.43	25.15	25.23	27.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.45	25.11	25.21	27.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.46	25.16	25.19	27.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.45	25.17	25.20	27.0



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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		25.73		27.0
100	PI/2 BPSK	1	137		25.46		
100	PI/2 BPSK	1	271		25.00		
100	PI/2 BPSK	135	0		25.03		26.5
100	PI/2 BPSK	135	69		25.47		27.0
100	PI/2 BPSK	135	138		24.82		26.5
100	PI/2 BPSK	270	0		24.90		
100	QPSK	1	1		25.53		27.0
100	QPSK	1	137		25.48		
100	QPSK	1	271		25.00		
100	QPSK	135	0		24.04		27.0
100	QPSK	135	69		25.47		
100	QPSK	135	138		24.02		
100	QPSK	270	0		23.90		26.0
100	16QAM	1	1		24.59		26.0
100	64QAM	1	1		22.98		24.5
100	256QAM	1	1		21.02		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.49	25.59	25.55	27.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.40	25.55	25.53	27.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.44	25.51	25.45	27.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.46	25.51	25.47	27.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.41	25.57	25.46	27.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.49	25.50	25.51	27.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.47	25.58	25.54	27.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.41	25.59	25.46	27.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.49	25.50	25.48	27.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.39	25.58	25.46	27.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.49	25.54	25.50	27.0



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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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.96	22.99	22.90	23.4
100	PI/2 BPSK	1	137	22.90	22.91	22.90	
100	PI/2 BPSK	1	271	22.21	22.28	22.19	
100	PI/2 BPSK	135	0	22.88	22.96	22.89	23.4
100	PI/2 BPSK	135	69	22.77	22.87	22.85	23.4
100	PI/2 BPSK	135	138	22.67	22.71	22.62	23.4
100	PI/2 BPSK	270	0	22.83	22.83	22.80	
100	QPSK	1	1	22.90	22.98	22.94	23.4
100	QPSK	1	137	22.92	22.92	22.83	
100	QPSK	1	271	22.28	22.28	22.27	
100	QPSK	135	0	22.89	22.97	22.92	23.4
100	QPSK	135	69	22.84	22.88	22.88	
100	QPSK	135	138	22.68	22.73	22.72	
100	QPSK	270	0	22.84	22.84	22.74	23.4
100	16QAM	1	1	22.95	22.97	22.92	23.4
100	64QAM	1	1	22.87	22.89	22.84	23.4
100	256QAM	1	1	20.86	20.95	20.87	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.89	22.89	22.93	23.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.83	22.95	22.85	23.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.90	22.89	22.91	23.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.81	22.92	22.90	23.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.86	22.89	22.90	23.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.88	22.98	22.89	23.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.89	22.90	22.89	23.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.86	22.95	22.90	23.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.87	22.92	22.88	23.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.86	22.93	22.94	23.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.81	22.98	22.90	23.4



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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		23.13		23.4
100	PI/2 BPSK	1	137		22.96		
100	PI/2 BPSK	1	271		22.49		
100	PI/2 BPSK	135	0		23.06		23.4
100	PI/2 BPSK	135	69		22.93		23.4
100	PI/2 BPSK	135	138		22.81		23.4
100	PI/2 BPSK	270	0		22.90		
100	QPSK	1	1		23.10		23.4
100	QPSK	1	137		22.96		
100	QPSK	1	271		22.49		
100	QPSK	135	0		23.02		23.4
100	QPSK	135	69		22.92		
100	QPSK	135	138		22.82		
100	QPSK	270	0		22.90		23.4
100	16QAM	1	1		23.10		23.4
100	64QAM	1	1		23.02		23.4
100	256QAM	1	1		21.05		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.10	23.12	23.11	23.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.08	23.04	23.08	23.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.01	23.02	23.06	23.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.07	23.07	23.02	23.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.01	23.09	23.10	23.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.07	23.06	23.03	23.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.07	23.04	23.11	23.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.07	23.07	23.08	23.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.02	23.10	23.05	23.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.03	23.04	23.01	23.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.05	23.10	23.09	23.4





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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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.96	22.99	22.90	24.1
100	PI/2 BPSK	1	137	22.90	22.91	22.90	
100	PI/2 BPSK	1	271	22.21	22.28	22.19	
100	PI/2 BPSK	135	0	22.88	22.96	22.89	24.1
100	PI/2 BPSK	135	69	22.77	22.87	22.85	24.1
100	PI/2 BPSK	135	138	22.67	22.71	22.62	24.1
100	PI/2 BPSK	270	0	22.83	22.83	22.80	
100	QPSK	1	1	22.90	22.98	22.94	24.1
100	QPSK	1	137	22.92	22.92	22.83	
100	QPSK	1	271	22.28	22.28	22.27	
100	QPSK	135	0	22.89	22.97	22.92	24.1
100	QPSK	135	69	22.84	22.88	22.88	
100	QPSK	135	138	22.68	22.73	22.72	
100	QPSK	270	0	22.84	22.84	22.74	24.1
100	16QAM	1	1	22.95	22.97	22.92	24.1
100	64QAM	1	1	22.87	22.89	22.84	24.1
100	256QAM	1	1	20.86	20.95	20.87	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.89	22.89	22.93	24.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.83	22.95	22.85	24.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.90	22.89	22.91	24.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.81	22.92	22.90	24.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.86	22.89	22.90	24.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.88	22.98	22.89	24.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.89	22.90	22.89	24.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.86	22.95	22.90	24.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.87	22.92	22.88	24.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.86	22.93	22.94	24.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.81	22.98	22.90	24.1



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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		24.1
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.13		24.1
100	PI/2 BPSK	1	137		22.96		
100	PI/2 BPSK	1	271		22.49		24.1
100	PI/2 BPSK	135	0		23.06		
100	PI/2 BPSK	135	69		22.93		24.1
100	PI/2 BPSK	135	138		22.81		
100	PI/2 BPSK	270	0		22.90		24.1
100	QPSK	1	1		23.10		
100	QPSK	1	137		22.96		24.1
100	QPSK	1	271		22.49		
100	QPSK	135	0		23.02		24.1
100	QPSK	135	69		22.92		
100	QPSK	135	138		22.82		24.1
100	QPSK	270	0		22.90		
100	16QAM	1	1		23.10		24.1
100	64QAM	1	1		23.02		24.1
100	256QAM	1	1		21.05		22.5
Channel				633000	633332	633666	24.1
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.10	23.12	23.11	24.1
Channel				632668	633332	634000	24.1
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.08	23.04	23.08	24.1
Channel				632334	633332	634332	24.1
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.01	23.02	23.06	24.1
Channel				632000	633332	634666	24.1
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.07	23.07	23.02	24.1
Channel				631668	633332	635000	24.1
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.01	23.09	23.10	24.1
Channel				631334	633332	635332	24.1
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.07	23.06	23.03	24.1
Channel				631000	633332	635666	24.1
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.07	23.04	23.11	24.1
Channel				630834	633332	635832	24.1
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.07	23.07	23.08	24.1
Channel				630668	633332	636000	24.1
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.02	23.10	23.05	24.1
Channel				630500	633332	636166	24.1
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.03	23.04	23.01	24.1
Channel				630334	633332	636332	24.1
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.05	23.10	23.09	24.1



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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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.96	22.99	22.90	23.4
100	PI/2 BPSK	1	137	22.90	22.91	22.90	
100	PI/2 BPSK	1	271	22.21	22.28	22.19	
100	PI/2 BPSK	135	0	22.88	22.96	22.89	23.4
100	PI/2 BPSK	135	69	22.77	22.87	22.85	23.4
100	PI/2 BPSK	135	138	22.67	22.71	22.62	23.4
100	PI/2 BPSK	270	0	22.83	22.83	22.80	
100	QPSK	1	1	22.90	22.98	22.94	23.4
100	QPSK	1	137	22.92	22.92	22.83	
100	QPSK	1	271	22.28	22.28	22.27	
100	QPSK	135	0	22.89	22.97	22.92	23.4
100	QPSK	135	69	22.84	22.88	22.88	
100	QPSK	135	138	22.68	22.73	22.72	
100	QPSK	270	0	22.84	22.84	22.74	23.4
100	16QAM	1	1	22.95	22.97	22.92	23.4
100	64QAM	1	1	22.87	22.89	22.84	23.4
100	256QAM	1	1	20.86	20.95	20.87	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.89	22.89	22.93	23.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.83	22.95	22.85	23.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.90	22.89	22.91	23.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.81	22.92	22.90	23.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.86	22.89	22.90	23.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.88	22.98	22.89	23.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.89	22.90	22.89	23.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.86	22.95	22.90	23.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.87	22.92	22.88	23.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.86	22.93	22.94	23.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.81	22.98	22.90	23.4



<FR1 n77\_PC2\_Ant 7\_Index 6>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.13		23.4
100	PI/2 BPSK	1	137		22.96		
100	PI/2 BPSK	1	271		22.49		
100	PI/2 BPSK	135	0		23.06		23.4
100	PI/2 BPSK	135	69		22.93		23.4
100	PI/2 BPSK	135	138		22.81		23.4
100	PI/2 BPSK	270	0		22.90		
100	QPSK	1	1		23.10		23.4
100	QPSK	1	137		22.96		
100	QPSK	1	271		22.49		
100	QPSK	135	0		23.02		23.4
100	QPSK	135	69		22.92		
100	QPSK	135	138		22.82		
100	QPSK	270	0		22.90		23.4
100	16QAM	1	1		23.10		23.4
100	64QAM	1	1		23.02		23.4
100	256QAM	1	1		21.05		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.10	23.12	23.11	23.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.08	23.04	23.08	23.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.01	23.02	23.06	23.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.07	23.07	23.02	23.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.01	23.09	23.10	23.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.07	23.06	23.03	23.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.07	23.04	23.11	23.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.07	23.07	23.08	23.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.02	23.10	23.05	23.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.03	23.04	23.01	23.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.05	23.10	23.09	23.4



<FR1 n77\_PC1.5\_Ant 1\_Index 2/3/4/5/6>FCC Part 270

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)							
Channel	650000	656000	662000	26.1							
Frequency (MHz)	3750	3840	3930								
100	PI/2 BPSK	1	1		25.42	25.54	25.72				
100	PI/2 BPSK	1	137		25.27	25.36	25.61				
100	PI/2 BPSK	1	271		24.77	24.86	24.99				
100	PI/2 BPSK	135	0		24.83	25.03	25.05				
100	PI/2 BPSK	135	69		25.28	25.32	25.52				
100	PI/2 BPSK	135	138		24.65	24.84	24.54				
100	PI/2 BPSK	270	0		24.65	24.70	24.81				
100	QPSK	1	1		25.41	25.52	25.79				
100	QPSK	1	137		25.25	25.30	25.58				
100	QPSK	1	271		24.83	24.89	25.03				
100	QPSK	135	0		24.61	24.71	24.66				
100	QPSK	135	69		25.31	25.38	25.46				
100	QPSK	135	138		24.69	24.71	24.63				
100	QPSK	270	0		24.20	24.31	24.24				
100	16QAM	1	1		24.48	24.56	24.74				
100	64QAM	1	1	22.91	22.99	23.19					
100	256QAM	1	1	20.98	21.10	21.20					
Channel	649668	656000	662332	26.1							
Frequency (MHz)	3745.02	3840	3934.98								
90	PI/2 BPSK	1	1		25.36	25.37	25.66				
Channel	649334	656000	662666		26.1						
Frequency (MHz)	3740.01	3840	3939.99								
80	PI/2 BPSK	1	1			25.37	25.40	25.64			
Channel	649000	656000	663000			26.1					
Frequency (MHz)	3735	3840	3945								
70	PI/2 BPSK	1	1				25.30	25.60	25.67		
Channel	648668	656000	663332				26.1				
Frequency (MHz)	3730.02	3840	3949.98								
60	PI/2 BPSK	1	1					25.28	25.52	25.73	
Channel	648334	656000	663666					26.1			
Frequency (MHz)	3725.01	3840	3954.99								
50	PI/2 BPSK	1	1						25.42	25.51	25.73
Channel	648000	656000	664000						26.1		
Frequency (MHz)	3720	3840	3960								
40	PI/2 BPSK	1	1	25.29						25.57	25.67
Channel	647668	656000	664332	26.1							
Frequency (MHz)	3715.02	3840.00	3964.98								
30	PI/2 BPSK	1	1		25.26					25.47	25.65
Channel	647500	656000	664500		26.1						
Frequency (MHz)	3712.5	3840.00	3967.50								
25	PI/2 BPSK	1	1			25.36				25.45	25.63
Channel	647334	656000	664666			26.1					
Frequency (MHz)	3710.01	3840	3969.99								
20	PI/2 BPSK	1	1				25.35			25.30	25.70
Channel	647168	656000	664832				26.1				
Frequency (MHz)	3707.52	3840	3972.48								
15	PI/2 BPSK	1	1					25.33		25.39	25.74
Channel	647000	656000	665000					26.1			
Frequency (MHz)	3705	3840	3975								
10	PI/2 BPSK	1	1						25.36	25.29	25.72



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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		25.71		26.1
100	PI/2 BPSK	1	137		25.40		
100	PI/2 BPSK	1	271		24.90		
100	PI/2 BPSK	135	0		25.01		25.6
100	PI/2 BPSK	135	69		25.29		26.1
100	PI/2 BPSK	135	138		24.88		25.6
100	PI/2 BPSK	270	0		24.70		
100	QPSK	1	1		25.55		26.1
100	QPSK	1	137		25.34		
100	QPSK	1	271		24.84		
100	QPSK	135	0		24.66		26.1
100	QPSK	135	69		25.38		
100	QPSK	135	138		24.65		
100	QPSK	270	0		24.27		25.1
100	16QAM	1	1		24.53		25.1
100	64QAM	1	1		23.00		23.6
100	256QAM	1	1		21.02		21.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.39	25.37	25.62	26.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.34	25.43	25.65	26.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.35	25.63	25.68	26.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.30	25.53	25.70	26.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.35	25.48	25.50	26.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.28	25.50	25.60	26.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.30	25.47	25.61	26.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.34	25.52	25.64	26.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.35	25.28	25.62	26.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.28	25.30	25.50	26.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.44	25.31	25.50	26.1



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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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.11	20.09	20.02	21.1
100	PI/2 BPSK	1	137	19.95	20.07	20.00	
100	PI/2 BPSK	1	271	20.03	19.90	20.00	
100	PI/2 BPSK	135	0	20.02	20.02	20.01	21.1
100	PI/2 BPSK	135	69	19.94	19.97	20.06	21.1
100	PI/2 BPSK	135	138	20.05	19.96	20.05	21.1
100	PI/2 BPSK	270	0	19.98	20.04	20.04	
100	QPSK	1	1	20.02	19.99	19.99	21.1
100	QPSK	1	137	20.07	19.97	19.96	
100	QPSK	1	271	20.05	19.95	20.07	
100	QPSK	135	0	20.02	20.05	20.04	21.1
100	QPSK	135	69	19.90	19.97	20.08	
100	QPSK	135	138	19.96	19.96	19.90	
100	QPSK	270	0	19.96	19.94	19.92	21.1
100	16QAM	1	1	19.95	20.06	20.04	21.1
100	64QAM	1	1	19.95	20.02	19.94	21.1
100	256QAM	1	1	20.08	20.07	20.09	21.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.02	19.96	19.99	21.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.93	19.98	19.93	21.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.95	20.00	19.97	21.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.04	19.98	20.01	21.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.93	19.97	19.99	21.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.92	20.04	19.90	21.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.96	20.02	19.98	21.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.00	19.95	20.01	21.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.96	19.92	20.08	21.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.90	19.90	19.99	21.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.02	20.10	20.00	21.1



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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		20.14		21.1
100	PI/2 BPSK	1	137		20.06		
100	PI/2 BPSK	1	271		20.04		
100	PI/2 BPSK	135	0		19.99		21.1
100	PI/2 BPSK	135	69		20.05		21.1
100	PI/2 BPSK	135	138		20.05		21.1
100	PI/2 BPSK	270	0		19.92		
100	QPSK	1	1		19.92		21.1
100	QPSK	1	137		19.99		
100	QPSK	1	271		20.04		
100	QPSK	135	0		20.07		21.1
100	QPSK	135	69		20.08		
100	QPSK	135	138		20.03		
100	QPSK	270	0		19.91		21.1
100	16QAM	1	1		19.90		21.1
100	64QAM	1	1		20.06		21.1
100	256QAM	1	1		19.95		21.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.92	20.06	20.09	21.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.99	20.02	20.04	21.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.94	20.03	19.92	21.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.91	19.99	19.91	21.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.03	20.06	20.06	21.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.00	19.97	19.96	21.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.98	19.98	20.08	21.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.04	19.93	20.06	21.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.96	19.92	20.08	21.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.96	19.97	19.93	21.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.91	19.96	20.10	21.1





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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	656000	662000	20.4
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.11	20.09	20.02	20.4
100	PI/2 BPSK	1	137	19.95	20.07	20.00	
100	PI/2 BPSK	1	271	20.03	19.90	20.00	
100	PI/2 BPSK	135	0	20.02	20.02	20.01	20.4
100	PI/2 BPSK	135	69	19.94	19.97	20.06	20.4
100	PI/2 BPSK	135	138	20.05	19.96	20.05	20.4
100	PI/2 BPSK	270	0	19.98	20.04	20.04	
100	QPSK	1	1	20.02	19.99	19.99	20.4
100	QPSK	1	137	20.07	19.97	19.96	
100	QPSK	1	271	20.05	19.95	20.07	
100	QPSK	135	0	20.02	20.05	20.04	20.4
100	QPSK	135	69	19.90	19.97	20.08	
100	QPSK	135	138	19.96	19.96	19.90	
100	QPSK	270	0	19.96	19.94	19.92	20.4
100	16QAM	1	1	19.95	20.06	20.04	20.4
100	64QAM	1	1	19.95	20.02	19.94	20.4
100	256QAM	1	1	20.08	20.07	20.09	20.4
Channel				649668	656000	662332	20.4
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.02	19.96	19.99	20.4
Channel				649334	656000	662666	20.4
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.93	19.98	19.93	20.4
Channel				649000	656000	663000	20.4
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.95	20.00	19.97	20.4
Channel				648668	656000	663332	20.4
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.04	19.98	20.01	20.4
Channel				648334	656000	663666	20.4
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.93	19.97	19.99	20.4
Channel				648000	656000	664000	20.4
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.92	20.04	19.90	20.4
Channel				647668	656000	664332	20.4
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.96	20.02	19.98	20.4
Channel				647500	656000	664500	20.4
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.00	19.95	20.01	20.4
Channel				647334	656000	664666	20.4
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.96	19.92	20.08	20.4
Channel				647168	656000	664832	20.4
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.90	19.90	19.99	20.4
Channel				647000	656000	665000	20.4
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.02	20.10	20.00	20.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.14		20.4
100	PI/2 BPSK	1	137		20.06		
100	PI/2 BPSK	1	271		20.04		
100	PI/2 BPSK	135	0		19.99		20.4
100	PI/2 BPSK	135	69		20.05		20.4
100	PI/2 BPSK	135	138		20.05		20.4
100	PI/2 BPSK	270	0		19.92		
100	QPSK	1	1		19.92		20.4
100	QPSK	1	137		19.99		
100	QPSK	1	271		20.04		
100	QPSK	135	0		20.07		20.4
100	QPSK	135	69		20.08		
100	QPSK	135	138		20.03		
100	QPSK	270	0		19.91		20.4
100	16QAM	1	1		19.90		20.4
100	64QAM	1	1		20.06		20.4
100	256QAM	1	1		19.95		20.4
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.92	20.06	20.09	20.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.99	20.02	20.04	20.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.94	20.03	19.92	20.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.91	19.99	19.91	20.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.03	20.06	20.06	20.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.00	19.97	19.96	20.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.98	19.98	20.08	20.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.04	19.93	20.06	20.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.96	19.92	20.08	20.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.96	19.97	19.93	20.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.91	19.96	20.10	20.4



<FR1 n77\_PC1.5\_Ant 5\_Index 4>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	25.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.26	24.33	24.70	25.1
100	PI/2 BPSK	1	137	24.13	24.26	24.59	
100	PI/2 BPSK	1	271	24.25	24.23	24.12	
100	PI/2 BPSK	135	0	23.67	23.95	23.98	25.0
100	PI/2 BPSK	135	69	24.14	24.20	24.66	25.1
100	PI/2 BPSK	135	138	23.68	23.72	23.81	25.0
100	PI/2 BPSK	270	0	23.69	23.64	23.93	
100	QPSK	1	1	24.17	24.34	24.62	25.1
100	QPSK	1	137	24.15	24.30	24.64	
100	QPSK	1	271	23.61	23.95	24.27	
100	QPSK	135	0	23.21	23.39	23.55	25.1
100	QPSK	135	69	24.18	24.37	24.56	
100	QPSK	135	138	23.32	23.32	23.26	
100	QPSK	270	0	22.96	23.18	23.49	24.5
100	16QAM	1	1	23.37	23.36	23.74	24.5
100	64QAM	1	1	21.62	21.92	22.09	23.0
100	256QAM	1	1	19.70	19.92	20.14	21.0
Channel				649668	656000	662332	25.1
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.23	24.21	24.62	25.1
Channel				649334	656000	662666	25.1
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.26	24.42	24.68	25.1
Channel				649000	656000	663000	25.1
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.33	24.28	24.69	25.1
Channel				648668	656000	663332	25.1
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.35	24.50	24.50	25.1
Channel				648334	656000	663666	25.1
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.26	24.44	24.60	25.1
Channel				648000	656000	664000	25.1
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.11	24.48	24.62	25.1
Channel				647668	656000	664332	25.1
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.26	24.44	24.60	25.1
Channel				647500	656000	664500	25.1
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.25	24.31	24.67	25.1
Channel				647334	656000	664666	25.1
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.17	24.36	24.63	25.1
Channel				647168	656000	664832	25.1
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.21	24.17	24.50	25.1
Channel				647000	656000	665000	25.1
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.33	24.26	24.69	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		25.1
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.74		25.1
100	PI/2 BPSK	1	137		24.73		
100	PI/2 BPSK	1	271		24.18		
100	PI/2 BPSK	135	0		24.16		25.0
100	PI/2 BPSK	135	69		24.84		25.1
100	PI/2 BPSK	135	138		23.80		25.0
100	PI/2 BPSK	270	0		24.16		
100	QPSK	1	1		24.68		25.1
100	QPSK	1	137		24.66		
100	QPSK	1	271		24.10		
100	QPSK	135	0		23.82		25.1
100	QPSK	135	69		24.75		
100	QPSK	135	138		23.24		
100	QPSK	270	0		23.68		24.5
100	16QAM	1	1		23.84		24.5
100	64QAM	1	1		22.19		23.0
100	256QAM	1	1		20.33		21.0
Channel				633000	633332	633666	25.1
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.68	24.77	24.72	25.1
Channel				632668	633332	634000	25.1
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.64	24.72	24.66	25.1
Channel				632334	633332	634332	25.1
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.59	24.73	24.64	25.1
Channel				632000	633332	634666	25.1
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.74	24.79	24.70	25.1
Channel				631668	633332	635000	25.1
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.73	24.81	24.77	25.1
Channel				631334	633332	635332	25.1
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.74	24.75	24.58	25.1
Channel				631000	633332	635666	25.1
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.78	24.82	24.57	25.1
Channel				630834	633332	635832	25.1
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.83	24.81	24.59	25.1
Channel				630668	633332	636000	25.1
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.63	24.83	24.66	25.1
Channel				630500	633332	636166	25.1
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.63	24.82	24.54	25.1
Channel				630334	633332	636332	25.1
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.78	24.64	24.55	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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.26	24.33	24.70	25.5
100	PI/2 BPSK	1	137	24.13	24.26	24.59	
100	PI/2 BPSK	1	271	24.25	24.23	24.12	
100	PI/2 BPSK	135	0	23.67	23.95	23.98	25.0
100	PI/2 BPSK	135	69	24.14	24.20	24.66	25.5
100	PI/2 BPSK	135	138	23.68	23.72	23.81	25.0
100	PI/2 BPSK	270	0	23.69	23.64	23.93	
100	QPSK	1	1	24.17	24.34	24.62	25.5
100	QPSK	1	137	24.15	24.30	24.64	
100	QPSK	1	271	23.61	23.95	24.27	
100	QPSK	135	0	23.21	23.39	23.55	25.5
100	QPSK	135	69	24.18	24.37	24.56	
100	QPSK	135	138	23.32	23.32	23.26	
100	QPSK	270	0	22.96	23.18	23.49	24.5
100	16QAM	1	1	23.37	23.36	23.74	24.5
100	64QAM	1	1	21.62	21.92	22.09	23.0
100	256QAM	1	1	19.70	19.92	20.14	21.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.23	24.21	24.62	25.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.26	24.42	24.68	25.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.33	24.28	24.69	25.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.35	24.50	24.50	25.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.26	24.44	24.60	25.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.11	24.48	24.62	25.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.26	24.44	24.60	25.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.25	24.31	24.67	25.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.17	24.36	24.63	25.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.21	24.17	24.50	25.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.33	24.26	24.69	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		24.74		25.5
100	PI/2 BPSK	1	137		24.73		
100	PI/2 BPSK	1	271		24.18		
100	PI/2 BPSK	135	0		24.16		25.0
100	PI/2 BPSK	135	69		24.84		25.5
100	PI/2 BPSK	135	138		23.80		25.0
100	PI/2 BPSK	270	0		24.16		
100	QPSK	1	1		24.68		25.5
100	QPSK	1	137		24.66		
100	QPSK	1	271		24.10		
100	QPSK	135	0		23.82		25.5
100	QPSK	135	69		24.75		
100	QPSK	135	138		23.24		
100	QPSK	270	0		23.68		24.5
100	16QAM	1	1		23.84		24.5
100	64QAM	1	1		22.19		23.0
100	256QAM	1	1		20.33		21.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.68	24.77	24.72	25.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.64	24.72	24.66	25.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.59	24.73	24.64	25.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.74	24.79	24.70	25.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.73	24.81	24.77	25.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.74	24.75	24.58	25.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.78	24.82	24.57	25.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.83	24.81	24.59	25.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.63	24.83	24.66	25.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.63	24.82	24.54	25.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.78	24.64	24.55	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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.17	25.09	25.07	26.1
100	PI/2 BPSK	1	137	25.20	25.10	25.22	
100	PI/2 BPSK	1	271	24.47	24.39	24.35	
100	PI/2 BPSK	135	0	24.69	24.62	24.80	25.6
100	PI/2 BPSK	135	69	25.10	25.10	25.19	26.1
100	PI/2 BPSK	135	138	24.10	24.37	24.21	25.6
100	PI/2 BPSK	270	0	24.59	24.50	24.69	
100	QPSK	1	1	25.16	25.07	25.09	26.1
100	QPSK	1	137	25.10	25.06	25.15	
100	QPSK	1	271	24.36	24.32	24.30	
100	QPSK	135	0	23.64	23.67	23.83	26.1
100	QPSK	135	69	25.20	25.07	25.14	
100	QPSK	135	138	23.69	23.64	23.73	
100	QPSK	270	0	23.55	23.54	23.69	25.1
100	16QAM	1	1	24.31	24.36	24.30	25.1
100	64QAM	1	1	22.72	22.68	22.75	23.6
100	256QAM	1	1	21.02	20.85	20.78	21.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.05	25.12	24.98	26.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.13	25.03	25.05	26.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.15	25.08	25.14	26.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.09	25.02	25.03	26.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.13	25.04	25.05	26.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.05	24.98	25.10	26.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.22	25.01	25.02	26.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.11	25.09	25.00	26.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.16	25.08	25.07	26.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.04	24.98	25.02	26.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.20	25.05	25.09	26.1



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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		26.1
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.95		26.1
100	PI/2 BPSK	1	137		24.94		
100	PI/2 BPSK	1	271		24.50		
100	PI/2 BPSK	135	0		24.42		25.6
100	PI/2 BPSK	135	69		24.95		26.1
100	PI/2 BPSK	135	138		24.33		25.6
100	PI/2 BPSK	270	0		24.31		
100	QPSK	1	1		24.84		26.1
100	QPSK	1	137		24.91		
100	QPSK	1	271		24.44		
100	QPSK	135	0		23.64		26.1
100	QPSK	135	69		23.67		
100	QPSK	135	138		23.73		
100	QPSK	270	0		23.38		25.1
100	16QAM	1	1		24.09		25.1
100	64QAM	1	1		22.52		23.6
100	256QAM	1	1		20.59		21.6
Channel				633000	633332	633666	26.1
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.93	24.90	24.90	26.1
Channel				632668	633332	634000	26.1
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.82	24.89	24.81	26.1
Channel				632334	633332	634332	26.1
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.87	24.85	24.87	26.1
Channel				632000	633332	634666	26.1
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.88	24.85	24.85	26.1
Channel				631668	633332	635000	26.1
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.78	24.92	24.90	26.1
Channel				631334	633332	635332	26.1
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.83	24.91	24.92	26.1
Channel				631000	633332	635666	26.1
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.89	24.95	24.83	26.1
Channel				630834	633332	635832	26.1
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.83	24.90	24.86	26.1
Channel				630668	633332	636000	26.1
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.78	24.91	24.86	26.1
Channel				630500	633332	636166	26.1
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.94	24.86	24.91	26.1
Channel				630334	633332	636332	26.1
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.83	24.89	24.91	26.1





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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	656000	662000	23.7
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.63	23.43	23.57	23.7
100	PI/2 BPSK	1	137	23.64	23.40	23.69	
100	PI/2 BPSK	1	271	22.91	22.77	22.67	23.7
100	PI/2 BPSK	135	0	23.11	22.98	23.10	
100	PI/2 BPSK	135	69	23.44	23.52	23.60	23.7
100	PI/2 BPSK	135	138	22.48	22.86	22.57	
100	PI/2 BPSK	270	0	22.98	22.85	23.01	23.7
100	QPSK	1	1	23.66	23.46	23.39	
100	QPSK	1	137	23.56	23.50	23.58	23.7
100	QPSK	1	271	22.67	22.62	22.69	
100	QPSK	135	0	22.02	22.16	22.24	23.7
100	QPSK	135	69	23.50	23.55	23.46	
100	QPSK	135	138	22.02	21.99	22.20	23.7
100	QPSK	270	0	21.85	22.03	22.19	
100	16QAM	1	1	22.65	22.71	22.66	23.6
100	64QAM	1	1	22.70	22.64	22.71	
100	256QAM	1	1	21.00	20.81	20.72	21.6
Channel				649668	656000	662332	23.7
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.44	23.46	23.42	23.7
Channel				649334	656000	662666	23.7
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.61	23.49	23.49	23.7
Channel				649000	656000	663000	23.7
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.49	23.50	23.56	23.7
Channel				648668	656000	663332	23.7
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.53	23.36	23.41	23.7
Channel				648334	656000	663666	23.7
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.49	23.36	23.51	23.7
Channel				648000	656000	664000	23.7
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.54	23.45	23.42	23.7
Channel				647668	656000	664332	23.7
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.57	23.45	23.51	23.7
Channel				647500	656000	664500	23.7
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.42	23.40	23.35	23.7
Channel				647334	656000	664666	23.7
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.53	23.41	23.48	23.7
Channel				647168	656000	664832	23.7
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.51	23.38	23.47	23.7
Channel				647000	656000	665000	23.7
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.57	23.40	23.48	23.7



<FR1 n77\_PC1.5\_Ant 6\_Index 4>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.61		23.7
100	PI/2 BPSK	1	137		23.58		
100	PI/2 BPSK	1	271		22.76		
100	PI/2 BPSK	135	0		22.97		23.7
100	PI/2 BPSK	135	69		23.40		23.7
100	PI/2 BPSK	135	138		22.73		23.7
100	PI/2 BPSK	270	0		22.95		
100	QPSK	1	1		23.47		23.7
100	QPSK	1	137		23.43		
100	QPSK	1	271		22.78		
100	QPSK	135	0		22.10		23.7
100	QPSK	135	69		23.42		
100	QPSK	135	138		22.11		
100	QPSK	270	0		21.98		23.7
100	16QAM	1	1		22.74		23.7
100	64QAM	1	1		22.50		23.6
100	256QAM	1	1		20.52		21.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.39	23.42	23.31	23.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.49	23.37	23.51	23.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.46	23.43	23.60	23.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.47	23.39	23.38	23.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.57	23.41	23.50	23.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.51	23.42	23.50	23.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.58	23.44	23.52	23.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.60	23.57	23.49	23.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.58	23.41	23.45	23.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.43	23.28	23.41	23.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.60	23.51	23.39	23.7



<FR1 n77\_PC1.5\_Ant 6\_Index 6>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.17	25.09	25.07	25.9
100	PI/2 BPSK	1	137	25.20	25.10	25.22	
100	PI/2 BPSK	1	271	24.47	24.39	24.35	
100	PI/2 BPSK	135	0	24.69	24.62	24.80	25.6
100	PI/2 BPSK	135	69	25.10	25.10	25.19	25.9
100	PI/2 BPSK	135	138	24.10	24.37	24.21	25.6
100	PI/2 BPSK	270	0	24.59	24.50	24.69	
100	QPSK	1	1	25.16	25.07	25.09	25.9
100	QPSK	1	137	25.10	25.06	25.15	
100	QPSK	1	271	24.36	24.32	24.30	
100	QPSK	135	0	23.64	23.67	23.83	25.9
100	QPSK	135	69	25.20	25.07	25.14	
100	QPSK	135	138	23.69	23.64	23.73	
100	QPSK	270	0	23.55	23.54	23.69	25.1
100	16QAM	1	1	24.31	24.36	24.30	25.1
100	64QAM	1	1	22.72	22.68	22.75	23.6
100	256QAM	1	1	21.02	20.85	20.78	21.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.05	25.12	24.98	25.9
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.13	25.03	25.05	25.9
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.15	25.08	25.14	25.9
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.09	25.02	25.03	25.9
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.13	25.04	25.05	25.9
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.05	24.98	25.10	25.9
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.22	25.01	25.02	25.9
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.11	25.09	25.00	25.9
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.16	25.08	25.07	25.9
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.04	24.98	25.02	25.9
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.20	25.05	25.09	25.9



<FR1 n77\_PC1.5\_Ant 6\_Index 6>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.95		25.9
100	PI/2 BPSK	1	137		24.94		
100	PI/2 BPSK	1	271		24.50		
100	PI/2 BPSK	135	0		24.42		25.6
100	PI/2 BPSK	135	69		24.95		25.9
100	PI/2 BPSK	135	138		24.33		25.6
100	PI/2 BPSK	270	0		24.31		
100	QPSK	1	1		24.84		25.9
100	QPSK	1	137		24.91		
100	QPSK	1	271		24.44		
100	QPSK	135	0		23.64		25.9
100	QPSK	135	69		23.67		
100	QPSK	135	138		23.73		
100	QPSK	270	0		23.38		25.1
100	16QAM	1	1		24.09		25.1
100	64QAM	1	1		22.52		23.6
100	256QAM	1	1		20.59		21.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.93	24.90	24.90	25.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.82	24.89	24.81	25.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.87	24.85	24.87	25.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.88	24.85	24.85	25.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.78	24.92	24.90	25.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.83	24.91	24.92	25.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.89	24.95	24.83	25.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.83	24.90	24.86	25.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.78	24.91	24.86	25.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.94	24.86	24.91	25.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.83	24.89	24.91	25.9



<FR1 n77\_PC1.5\_Ant 7\_Index 2/3/4/5/6>-FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.57	24.25	24.06	25.5
100	PI/2 BPSK	1	137	24.20	24.06	24.23	
100	PI/2 BPSK	1	271	23.49	23.39	23.32	
100	PI/2 BPSK	135	0	23.74	23.50	23.89	25.0
100	PI/2 BPSK	135	69	24.25	23.93	24.33	25.5
100	PI/2 BPSK	135	138	23.32	23.42	23.71	25.0
100	PI/2 BPSK	270	0	23.64	23.43	23.62	
100	QPSK	1	1	24.45	24.04	24.06	25.5
100	QPSK	1	137	24.16	24.12	24.18	
100	QPSK	1	271	23.58	23.34	23.42	
100	QPSK	135	0	22.95	22.83	22.96	25.5
100	QPSK	135	69	24.12	23.95	24.30	
100	QPSK	135	138	22.86	22.97	22.86	
100	QPSK	270	0	22.71	22.46	22.50	24.5
100	16QAM	1	1	23.49	23.01	23.22	24.5
100	64QAM	1	1	21.64	21.40	21.60	23.0
100	256QAM	1	1	19.85	19.45	19.66	21.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.28	24.03	24.11	25.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.42	24.02	24.14	25.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.29	24.16	24.43	25.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.41	24.06	24.26	25.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.41	24.18	24.26	25.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.37	24.04	24.35	25.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.44	23.88	24.05	25.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.35	23.97	24.14	25.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.34	24.03	24.12	25.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.28	24.00	24.14	25.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.43	24.06	24.14	25.5



<FR1 n77\_PC1.5\_Ant 7\_Index 2/3/4/5/6>-FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.54		25.5
100	PI/2 BPSK	1	137		24.44		
100	PI/2 BPSK	1	271		23.92		
100	PI/2 BPSK	135	0		23.99		25.0
100	PI/2 BPSK	135	69		24.37		25.5
100	PI/2 BPSK	135	138		23.76		25.0
100	PI/2 BPSK	270	0		23.78		
100	QPSK	1	1		24.53		25.5
100	QPSK	1	137		24.46		
100	QPSK	1	271		23.87		
100	QPSK	135	0		22.96		25.5
100	QPSK	135	69		24.41		
100	QPSK	135	138		22.83		
100	QPSK	270	0		22.89		24.5
100	16QAM	1	1		23.47		24.5
100	64QAM	1	1		21.84		23.0
100	256QAM	1	1		19.97		21.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.37	24.50	24.50	25.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.30	24.35	24.48	25.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.43	24.34	24.27	25.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.36	24.36	24.47	25.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.27	24.43	24.26	25.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.40	24.47	24.46	25.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.40	24.40	24.43	25.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.27	24.39	24.35	25.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.39	24.31	24.29	25.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.31	24.47	24.45	25.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.48	24.53	24.47	25.5



<FR1 n78\_PC3\_Ant 1\_Index 2>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		18.50		19.2
100	PI/2 BPSK	1	137		18.40		
100	PI/2 BPSK	1	271		18.01		
100	PI/2 BPSK	135	0		18.50		19.2
100	PI/2 BPSK	135	69		18.34		19.2
100	PI/2 BPSK	135	138		18.32		19.2
100	PI/2 BPSK	270	0		18.35		
100	QPSK	1	1		18.49		19.2
100	QPSK	1	137		18.40		
100	QPSK	1	271		18.00		
100	QPSK	135	0		18.50		19.2
100	QPSK	135	69		18.37		
100	QPSK	135	138		18.30		
100	QPSK	270	0		18.33		19.2
100	16QAM	1	1		18.49		19.2
100	64QAM	1	1		17.93		19.2
100	256QAM	1	1		17.95		19.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.50	18.48	18.49	19.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.46	18.41	18.48	19.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.49	18.42	18.40	19.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.41	18.45	18.40	19.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.47	18.41	18.41	19.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.43	18.40	18.49	19.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.48	18.45	18.49	19.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	18.48	18.47	18.39	19.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.44	18.38	18.45	19.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.50	18.47	18.40	19.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.42	18.45	18.48	19.2



<FR1 n78\_PC3\_Ant 1\_Index 2>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.48		19.2
100	PI/2 BPSK	1	137		18.36		
100	PI/2 BPSK	1	271		17.97		
100	PI/2 BPSK	135	0		18.47		19.2
100	PI/2 BPSK	135	69		18.35		19.2
100	PI/2 BPSK	135	138		18.13		19.2
100	PI/2 BPSK	270	0		18.31		
100	QPSK	1	1		18.45		19.2
100	QPSK	1	137		18.36		
100	QPSK	1	271		17.95		
100	QPSK	135	0		18.45		19.2
100	QPSK	135	69		18.36		
100	QPSK	135	138		18.10		
100	QPSK	270	0		18.31		19.2
100	16QAM	1	1		18.46		19.2
100	64QAM	1	1		17.91		19.2
100	256QAM	1	1		17.85		19.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.47	18.46	18.47	19.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.47	18.46	18.43	19.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.46	18.46	18.42	19.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.37	18.46	18.46	19.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.43	18.36	18.38	19.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.44	18.39	18.43	19.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.39	18.37	18.44	19.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.37	18.39	18.47	19.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.39	18.45	18.45	19.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.47	18.44	18.37	19.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.45	18.42	18.38	19.2





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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		18.50		18.5
100	PI/2 BPSK	1	137		18.40		
100	PI/2 BPSK	1	271		18.01		
100	PI/2 BPSK	135	0		18.50		18.5
100	PI/2 BPSK	135	69		18.34		18.5
100	PI/2 BPSK	135	138		18.32		18.5
100	PI/2 BPSK	270	0		18.35		
100	QPSK	1	1		18.49		18.5
100	QPSK	1	137		18.40		
100	QPSK	1	271		18.00		
100	QPSK	135	0		18.50		18.5
100	QPSK	135	69		18.37		
100	QPSK	135	138		18.30		
100	QPSK	270	0		18.33		18.5
100	16QAM	1	1		18.49		18.5
100	64QAM	1	1		17.93		18.5
100	256QAM	1	1		17.95		18.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.50	18.48	18.49	18.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.46	18.41	18.48	18.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.49	18.42	18.40	18.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.41	18.45	18.40	18.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.47	18.41	18.41	18.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.43	18.40	18.49	18.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.48	18.45	18.49	18.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	18.48	18.47	18.39	18.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.44	18.38	18.45	18.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.50	18.47	18.40	18.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.42	18.45	18.48	18.5



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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		18.48		18.5
100	PI/2 BPSK	1	137		18.36		
100	PI/2 BPSK	1	271		17.97		
100	PI/2 BPSK	135	0		18.47		18.5
100	PI/2 BPSK	135	69		18.35		18.5
100	PI/2 BPSK	135	138		18.13		18.5
100	PI/2 BPSK	270	0		18.31		
100	QPSK	1	1		18.45		18.5
100	QPSK	1	137		18.36		
100	QPSK	1	271		17.95		
100	QPSK	135	0		18.45		18.5
100	QPSK	135	69		18.36		
100	QPSK	135	138		18.10		
100	QPSK	270	0		18.31		18.5
100	16QAM	1	1		18.46		18.5
100	64QAM	1	1		17.91		18.5
100	256QAM	1	1		17.85		18.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.47	18.46	18.47	18.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.47	18.46	18.43	18.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.46	18.46	18.42	18.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.37	18.46	18.46	18.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.43	18.36	18.38	18.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.44	18.39	18.43	18.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.39	18.37	18.44	18.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.37	18.39	18.47	18.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.39	18.45	18.45	18.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.47	18.44	18.37	18.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.45	18.42	18.38	18.5



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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		21.0
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.16		21.0
100	PI/2 BPSK	1	137		19.72		
100	PI/2 BPSK	1	271		19.60		
100	PI/2 BPSK	135	0		19.89		21.0
100	PI/2 BPSK	135	69		19.71		21.0
100	PI/2 BPSK	135	138		19.68		21.0
100	PI/2 BPSK	270	0		19.67		
100	QPSK	1	1		20.11		21.0
100	QPSK	1	137		19.73		
100	QPSK	1	271		19.62		
100	QPSK	135	0		19.40		21.0
100	QPSK	135	69		19.68		
100	QPSK	135	138		19.17		
100	QPSK	270	0		19.10		21.0
100	16QAM	1	1		19.16		21.0
100	64QAM	1	1		19.11		21.0
100	256QAM	1	1		18.73		19.6
Channel				649668	650000	650332	21.0
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.51	19.64	19.63	21.0
Channel				649334	650000	650666	21.0
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.49	19.56	19.62	21.0
Channel				649000	650000	651000	21.0
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.49	19.58	19.55	21.0
Channel				648668	650000	651332	21.0
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.48	19.58	19.60	21.0
Channel				648334	650000	651666	21.0
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.50	19.61	19.57	21.0
Channel				648000	650000	652000	21.0
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.50	19.60	19.56	21.0
Channel				647668	650000	652332	21.0
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.48	19.62	19.54	21.0
Channel				647500	650000	652500	21.0
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.48	19.55	19.45	21.0
Channel				647334	650000	652666	21.0
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.45	19.60	19.55	21.0
Channel				647168	650000	652832	21.0
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.48	19.60	19.58	21.0
Channel				647000	650000	653000	21.0
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.47	19.58	19.60	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		20.08		21.0
100	PI/2 BPSK	1	137		19.97		
100	PI/2 BPSK	1	271		19.49		
100	PI/2 BPSK	135	0		19.92		21.0
100	PI/2 BPSK	135	69		19.94		21.0
100	PI/2 BPSK	135	138		19.54		21.0
100	PI/2 BPSK	270	0		19.94		
100	QPSK	1	1		20.05		21.0
100	QPSK	1	137		19.96		
100	QPSK	1	271		19.47		
100	QPSK	135	0		19.43		21.0
100	QPSK	135	69		19.98		
100	QPSK	135	138		19.04		
100	QPSK	270	0		19.03		20.3
100	16QAM	1	1		19.14		20.3
100	64QAM	1	1		19.19		18.8
100	256QAM	1	1		18.65		16.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.50	19.67	19.44	21.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.45	19.64	19.50	21.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.48	19.63	19.49	21.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.45	19.66	19.52	21.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.48	19.63	19.50	21.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.51	19.62	19.44	21.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.53	19.66	19.52	21.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.52	19.64	19.52	21.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.50	19.63	19.44	21.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.49	19.64	19.50	21.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.49	19.64	19.51	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		23.8
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.09		23.8
100	PI/2 BPSK	1	137		22.65		
100	PI/2 BPSK	1	271		22.53		
100	PI/2 BPSK	135	0		22.82		23.6
100	PI/2 BPSK	135	69		22.64		23.8
100	PI/2 BPSK	135	138		22.61		23.6
100	PI/2 BPSK	270	0		22.60		
100	QPSK	1	1		23.04		23.8
100	QPSK	1	137		22.66		
100	QPSK	1	271		22.55		
100	QPSK	135	0		22.33		23.8
100	QPSK	135	69		22.61		
100	QPSK	135	138		22.10		
100	QPSK	270	0		21.67		23.1
100	16QAM	1	1		22.09		23.1
100	64QAM	1	1		20.56		21.6
100	256QAM	1	1		18.56		19.6
Channel				649668	650000	650332	23.8
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.44	22.57	22.56	23.8
Channel				649334	650000	650666	23.8
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.42	22.49	22.55	23.8
Channel				649000	650000	651000	23.8
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.42	22.51	22.48	23.8
Channel				648668	650000	651332	23.8
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.41	22.51	22.53	23.8
Channel				648334	650000	651666	23.8
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.43	22.54	22.50	23.8
Channel				648000	650000	652000	23.8
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.43	22.53	22.49	23.8
Channel				647668	650000	652332	23.8
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.41	22.55	22.47	23.8
Channel				647500	650000	652500	23.8
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.41	22.48	22.38	23.8
Channel				647334	650000	652666	23.8
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.38	22.53	22.48	23.8
Channel				647168	650000	652832	23.8
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.41	22.53	22.51	23.8
Channel				647000	650000	653000	23.8
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.40	22.51	22.53	23.8



<FR1 n78\_PC3\_Ant 1\_Index 5>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.01		23.8
100	PI/2 BPSK	1	137		22.90		
100	PI/2 BPSK	1	271		22.42		
100	PI/2 BPSK	135	0		22.85		23.6
100	PI/2 BPSK	135	69		22.87		23.8
100	PI/2 BPSK	135	138		22.47		23.6
100	PI/2 BPSK	270	0		22.87		
100	QPSK	1	1		22.98		23.8
100	QPSK	1	137		22.89		
100	QPSK	1	271		22.40		
100	QPSK	135	0		22.36		23.8
100	QPSK	135	69		22.91		
100	QPSK	135	138		21.97		
100	QPSK	270	0		21.96		23.4
100	16QAM	1	1		22.07		23.4
100	64QAM	1	1		20.52		21.9
100	256QAM	1	1		18.48		19.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.43	22.60	22.37	23.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.38	22.57	22.43	23.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.41	22.56	22.42	23.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.38	22.59	22.45	23.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.41	22.56	22.43	23.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.44	22.55	22.37	23.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.46	22.59	22.45	23.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.45	22.57	22.45	23.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.43	22.56	22.37	23.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.42	22.57	22.43	23.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.42	22.57	22.44	23.8



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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					650000		23.1
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.09		23.1
100	PI/2 BPSK	1	137		22.65		
100	PI/2 BPSK	1	271		22.53		23.1
100	PI/2 BPSK	135	0		22.82		
100	PI/2 BPSK	135	69		22.64		23.1
100	PI/2 BPSK	135	138		22.61		
100	PI/2 BPSK	270	0		22.60		23.1
100	QPSK	1	1		23.04		
100	QPSK	1	137		22.66		23.1
100	QPSK	1	271		22.55		
100	QPSK	135	0		22.33		23.1
100	QPSK	135	69		22.61		
100	QPSK	135	138		22.10		23.1
100	QPSK	270	0		21.67		
100	16QAM	1	1		22.09		23.1
100	64QAM	1	1		20.56		
100	256QAM	1	1		18.56		19.6
Channel				649668	650000	650332	23.1
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.44	22.57	22.56	23.1
Channel				649334	650000	650666	23.1
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.42	22.49	22.55	23.1
Channel				649000	650000	651000	23.1
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.42	22.51	22.48	23.1
Channel				648668	650000	651332	23.1
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.41	22.51	22.53	23.1
Channel				648334	650000	651666	23.1
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.43	22.54	22.50	23.1
Channel				648000	650000	652000	23.1
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.43	22.53	22.49	23.1
Channel				647668	650000	652332	23.1
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.41	22.55	22.47	23.1
Channel				647500	650000	652500	23.1
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.41	22.48	22.38	23.1
Channel				647334	650000	652666	23.1
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.38	22.53	22.48	23.1
Channel				647168	650000	652832	23.1
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.41	22.53	22.51	23.1
Channel				647000	650000	653000	23.1
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.40	22.51	22.53	23.1



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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		23.1
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.01		23.1
100	PI/2 BPSK	1	137		22.90		
100	PI/2 BPSK	1	271		22.42		23.1
100	PI/2 BPSK	135	0		22.85		
100	PI/2 BPSK	135	69		22.87		23.1
100	PI/2 BPSK	135	138		22.47		
100	PI/2 BPSK	270	0		22.87		23.1
100	QPSK	1	1		22.98		
100	QPSK	1	137		22.89		23.1
100	QPSK	1	271		22.40		
100	QPSK	135	0		22.36		23.1
100	QPSK	135	69		22.91		
100	QPSK	135	138		21.97		23.1
100	QPSK	270	0		21.96		
100	16QAM	1	1		22.07		23.1
100	64QAM	1	1		20.52		21.9
100	256QAM	1	1		18.48		19.9
Channel				633000	633332	633666	23.1
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.43	22.60	22.37	23.1
Channel				632668	633332	634000	23.1
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.38	22.57	22.43	23.1
Channel				632334	633332	634332	23.1
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.41	22.56	22.42	23.1
Channel				632000	633332	634666	23.1
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.38	22.59	22.45	23.1
Channel				631668	633332	635000	23.1
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.41	22.56	22.43	23.1
Channel				631334	633332	635332	23.1
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.44	22.55	22.37	23.1
Channel				631000	633332	635666	23.1
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.46	22.59	22.45	23.1
Channel				630834	633332	635832	23.1
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.45	22.57	22.45	23.1
Channel				630668	633332	636000	23.1
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.43	22.56	22.37	23.1
Channel				630500	633332	636166	23.1
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.42	22.57	22.43	23.1
Channel				630334	633332	636332	23.1
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.42	22.57	22.44	23.1





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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		15.1
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		14.29		15.1
100	PI/2 BPSK	1	137		14.05		
100	PI/2 BPSK	1	271		13.94		
100	PI/2 BPSK	135	0		14.28		15.1
100	PI/2 BPSK	135	69		14.00		15.1
100	PI/2 BPSK	135	138		13.90		15.1
100	PI/2 BPSK	270	0		13.97		
100	QPSK	1	1		14.26		15.1
100	QPSK	1	137		14.04		
100	QPSK	1	271		13.95		
100	QPSK	135	0		14.24		15.1
100	QPSK	135	69		14.00		
100	QPSK	135	138		13.90		
100	QPSK	270	0		13.96		15.1
100	16QAM	1	1		14.27		15.1
100	64QAM	1	1		14.21		15.1
100	256QAM	1	1		14.22		15.1
Channel				649668	650000	650332	15.1
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	14.26	14.28	14.28	15.1
Channel				649334	650000	650666	15.1
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	14.23	14.22	14.27	15.1
Channel				649000	650000	651000	15.1
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	14.16	14.20	14.21	15.1
Channel				648668	650000	651332	15.1
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	14.22	14.22	14.24	15.1
Channel				648334	650000	651666	15.1
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	14.18	14.23	14.27	15.1
Channel				648000	650000	652000	15.1
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	14.23	14.27	14.19	15.1
Channel				647668	650000	652332	15.1
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	14.16	14.26	14.23	15.1
Channel				647500	650000	652500	15.1
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	14.18	14.25	14.22	15.1
Channel				647334	650000	652666	15.1
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	14.25	14.25	14.21	15.1
Channel				647168	650000	652832	15.1
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	14.20	14.20	14.25	15.1
Channel				647000	650000	653000	15.1
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	14.18	14.23	14.25	15.1



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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		15.1
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.29		15.1
100	PI/2 BPSK	1	137		14.20		
100	PI/2 BPSK	1	271		14.00		15.1
100	PI/2 BPSK	135	0		14.17		
100	PI/2 BPSK	135	69		14.10		15.1
100	PI/2 BPSK	135	138		13.89		
100	PI/2 BPSK	270	0		14.11		15.1
100	QPSK	1	1		14.28		
100	QPSK	1	137		14.19		15.1
100	QPSK	1	271		13.76		
100	QPSK	135	0		14.19		15.1
100	QPSK	135	69		14.13		
100	QPSK	135	138		13.89		15.1
100	QPSK	270	0		14.12		
100	16QAM	1	1		14.28		15.1
100	64QAM	1	1		14.23		
100	256QAM	1	1		14.26		15.1
Channel				633000	633332	633666	15.1
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.27	14.28	14.28	15.1
Channel				632668	633332	634000	15.1
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.18	14.27	14.25	15.1
Channel				632334	633332	634332	15.1
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.20	14.19	14.28	15.1
Channel				632000	633332	634666	15.1
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.27	14.24	14.19	15.1
Channel				631668	633332	635000	15.1
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.25	14.26	14.23	15.1
Channel				631334	633332	635332	15.1
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.18	14.20	14.21	15.1
Channel				631000	633332	635666	15.1
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.22	14.23	14.23	15.1
Channel				630834	633332	635832	15.1
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	14.25	14.23	14.27	15.1
Channel				630668	633332	636000	15.1
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.22	14.26	14.19	15.1
Channel				630500	633332	636166	15.1
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.20	14.25	14.25	15.1
Channel				630334	633332	636332	15.1
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.26	14.21	14.24	15.1



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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		14.29		14.4
100	PI/2 BPSK	1	137		14.05		
100	PI/2 BPSK	1	271		13.94		
100	PI/2 BPSK	135	0		14.28		14.4
100	PI/2 BPSK	135	69		14.00		14.4
100	PI/2 BPSK	135	138		13.90		14.4
100	PI/2 BPSK	270	0		13.97		
100	QPSK	1	1		14.26		14.4
100	QPSK	1	137		14.04		
100	QPSK	1	271		13.95		
100	QPSK	135	0		14.24		14.4
100	QPSK	135	69		14.00		
100	QPSK	135	138		13.90		
100	QPSK	270	0		13.96		14.4
100	16QAM	1	1		14.27		14.4
100	64QAM	1	1		14.21		14.4
100	256QAM	1	1		14.22		14.4
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	14.26	14.28	14.28	14.4
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	14.23	14.22	14.27	14.4
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	14.16	14.20	14.21	14.4
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	14.22	14.22	14.24	14.4
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	14.18	14.23	14.27	14.4
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	14.23	14.27	14.19	14.4
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	14.16	14.26	14.23	14.4
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	14.18	14.25	14.22	14.4
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	14.25	14.25	14.21	14.4
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	14.20	14.20	14.25	14.4
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	14.18	14.23	14.25	14.4



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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		14.29		14.4
100	PI/2 BPSK	1	137		14.20		
100	PI/2 BPSK	1	271		14.00		
100	PI/2 BPSK	135	0		14.17		14.4
100	PI/2 BPSK	135	69		14.10		14.4
100	PI/2 BPSK	135	138		13.89		14.4
100	PI/2 BPSK	270	0		14.11		
100	QPSK	1	1		14.28		14.4
100	QPSK	1	137		14.19		
100	QPSK	1	271		13.76		
100	QPSK	135	0		14.19		14.4
100	QPSK	135	69		14.13		
100	QPSK	135	138		13.89		
100	QPSK	270	0		14.12		14.4
100	16QAM	1	1		14.28		14.4
100	64QAM	1	1		14.23		14.4
100	256QAM	1	1		14.26		14.4
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.27	14.28	14.28	14.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.18	14.27	14.25	14.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.20	14.19	14.28	14.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.27	14.24	14.19	14.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.25	14.26	14.23	14.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.18	14.20	14.21	14.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.22	14.23	14.23	14.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	14.25	14.23	14.27	14.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.22	14.26	14.19	14.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.20	14.25	14.25	14.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.26	14.21	14.24	14.4



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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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		18.16		19.1
100	PI/2 BPSK	1	137		18.10		
100	PI/2 BPSK	1	271		18.12		
100	PI/2 BPSK	135	0		18.15		19.1
100	PI/2 BPSK	135	69		18.10		19.1
100	PI/2 BPSK	135	138		18.12		19.1
100	PI/2 BPSK	270	0		18.11		
100	QPSK	1	1		18.15		19.1
100	QPSK	1	137		18.10		
100	QPSK	1	271		18.11		
100	QPSK	135	0		18.13		19.1
100	QPSK	135	69		18.11		
100	QPSK	135	138		18.12		
100	QPSK	270	0		18.10		19.1
100	16QAM	1	1		18.15		19.1
100	64QAM	1	1		18.10		19.1
100	256QAM	1	1		17.55		19.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.15	18.14	18.13	19.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.14	18.14	18.12	19.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.13	18.15	18.12	19.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.14	18.13	18.14	19.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.15	18.14	18.13	19.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.12	18.13	18.13	19.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.12	18.13	18.11	19.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	18.15	18.14	18.11	19.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.11	18.10	18.12	19.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.15	18.15	18.15	19.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.15	18.15	18.15	19.1



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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		18.43		19.1
100	PI/2 BPSK	1	137		18.27		
100	PI/2 BPSK	1	271		18.14		
100	PI/2 BPSK	135	0		18.37		19.1
100	PI/2 BPSK	135	69		18.23		19.1
100	PI/2 BPSK	135	138		18.10		19.1
100	PI/2 BPSK	270	0		18.22		
100	QPSK	1	1		18.40		19.1
100	QPSK	1	137		18.24		
100	QPSK	1	271		18.12		
100	QPSK	135	0		18.35		19.1
100	QPSK	135	69		18.22		
100	QPSK	135	138		18.11		
100	QPSK	270	0		18.19		19.1
100	16QAM	1	1		18.40		19.1
100	64QAM	1	1		18.35		19.1
100	256QAM	1	1		17.80		19.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.38	18.39	18.42	19.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.34	18.39	18.41	19.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.30	18.30	18.35	19.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.36	18.31	18.37	19.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.35	18.36	18.37	19.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.38	18.30	18.38	19.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.29	18.32	18.38	19.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.29	18.32	18.39	19.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.32	18.38	18.41	19.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.38	18.32	18.35	19.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.34	18.32	18.35	19.1



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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		18.16		20.1
100	PI/2 BPSK	1	137		18.10		
100	PI/2 BPSK	1	271		18.12		
100	PI/2 BPSK	135	0		18.15		20.1
100	PI/2 BPSK	135	69		18.10		20.1
100	PI/2 BPSK	135	138		18.12		20.1
100	PI/2 BPSK	270	0		18.11		
100	QPSK	1	1		18.15		20.1
100	QPSK	1	137		18.10		
100	QPSK	1	271		18.11		
100	QPSK	135	0		18.13		20.1
100	QPSK	135	69		18.11		
100	QPSK	135	138		18.12		
100	QPSK	270	0		18.10		20.1
100	16QAM	1	1		18.15		20.1
100	64QAM	1	1		18.10		20.1
100	256QAM	1	1		17.55		19.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.15	18.14	18.13	20.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.14	18.14	18.12	20.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.13	18.15	18.12	20.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.14	18.13	18.14	20.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.15	18.14	18.13	20.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.12	18.13	18.13	20.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.12	18.13	18.11	20.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	18.15	18.14	18.11	20.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.11	18.10	18.12	20.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.15	18.15	18.15	20.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.15	18.15	18.15	20.1



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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		18.43		20.1
100	PI/2 BPSK	1	137		18.27		
100	PI/2 BPSK	1	271		18.14		
100	PI/2 BPSK	135	0		18.37		20.1
100	PI/2 BPSK	135	69		18.23		20.1
100	PI/2 BPSK	135	138		18.10		20.1
100	PI/2 BPSK	270	0		18.22		
100	QPSK	1	1		18.40		20.1
100	QPSK	1	137		18.24		
100	QPSK	1	271		18.12		
100	QPSK	135	0		18.35		20.1
100	QPSK	135	69		18.22		
100	QPSK	135	138		18.11		
100	QPSK	270	0		18.19		20.1
100	16QAM	1	1		18.40		20.1
100	64QAM	1	1		18.35		20.1
100	256QAM	1	1		17.80		19.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.38	18.39	18.42	20.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.34	18.39	18.41	20.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.30	18.30	18.35	20.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.36	18.31	18.37	20.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.35	18.36	18.37	20.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.38	18.30	18.38	20.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.29	18.32	18.38	20.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.29	18.32	18.39	20.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.32	18.38	18.41	20.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.38	18.32	18.35	20.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.34	18.32	18.35	20.1





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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		18.16		19.4
100	PI/2 BPSK	1	137		18.10		
100	PI/2 BPSK	1	271		18.12		
100	PI/2 BPSK	135	0		18.15		19.4
100	PI/2 BPSK	135	69		18.10		19.4
100	PI/2 BPSK	135	138		18.12		19.4
100	PI/2 BPSK	270	0		18.11		
100	QPSK	1	1		18.15		19.4
100	QPSK	1	137		18.10		
100	QPSK	1	271		18.11		
100	QPSK	135	0		18.13		19.4
100	QPSK	135	69		18.11		
100	QPSK	135	138		18.12		
100	QPSK	270	0		18.10		19.4
100	16QAM	1	1		18.15		19.4
100	64QAM	1	1		18.10		19.4
100	256QAM	1	1		17.55		19.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.15	18.14	18.13	19.4
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.14	18.14	18.12	19.4
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.13	18.15	18.12	19.4
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.14	18.13	18.14	19.4
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.15	18.14	18.13	19.4
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.12	18.13	18.13	19.4
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.12	18.13	18.11	19.4
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	18.15	18.14	18.11	19.4
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.11	18.10	18.12	19.4
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.15	18.15	18.15	19.4
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.15	18.15	18.15	19.4



<FR1 n78\_PC3\_Ant 5\_Index 6>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.43		19.4
100	PI/2 BPSK	1	137		18.27		
100	PI/2 BPSK	1	271		18.14		
100	PI/2 BPSK	135	0		18.37		19.4
100	PI/2 BPSK	135	69		18.23		19.4
100	PI/2 BPSK	135	138		18.10		19.4
100	PI/2 BPSK	270	0		18.22		
100	QPSK	1	1		18.40		19.4
100	QPSK	1	137		18.24		
100	QPSK	1	271		18.12		
100	QPSK	135	0		18.35		19.4
100	QPSK	135	69		18.22		
100	QPSK	135	138		18.11		
100	QPSK	270	0		18.19		19.4
100	16QAM	1	1		18.40		19.4
100	64QAM	1	1		18.35		19.4
100	256QAM	1	1		17.80		19.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.38	18.39	18.42	19.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.34	18.39	18.41	19.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.30	18.30	18.35	19.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.36	18.31	18.37	19.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.35	18.36	18.37	19.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.38	18.30	18.38	19.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.29	18.32	18.38	19.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.29	18.32	18.39	19.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.32	18.38	18.41	19.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.38	18.32	18.35	19.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.34	18.32	18.35	19.4



<FR1 n78\_PC3\_Ant 6\_Index 2>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.42		22.2
100	PI/2 BPSK	1	137		21.32		
100	PI/2 BPSK	1	271		21.29		
100	PI/2 BPSK	135	0		21.33		22.2
100	PI/2 BPSK	135	69		21.34		22.2
100	PI/2 BPSK	135	138		21.31		22.2
100	PI/2 BPSK	270	0		21.32		
100	QPSK	1	1		21.32		22.2
100	QPSK	1	137		21.32		
100	QPSK	1	271		21.20		
100	QPSK	135	0		21.33		22.2
100	QPSK	135	69		21.27		
100	QPSK	135	138		21.31		
100	QPSK	270	0		21.27		22.2
100	16QAM	1	1		21.27		22.2
100	64QAM	1	1		20.73		21.7
100	256QAM	1	1		18.76		19.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.25	21.30	21.24	22.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.28	21.26	21.25	22.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.31	21.26	21.25	22.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.26	21.30	21.28	22.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.22	21.32	21.25	22.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.31	21.27	21.30	22.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.26	21.32	21.22	22.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.23	21.26	21.27	22.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.31	21.28	21.25	22.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.28	21.24	21.28	22.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.29	21.31	21.32	22.2



<FR1 n78\_PC3\_Ant 6\_Index 2>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.29		22.2
100	PI/2 BPSK	1	137		21.25		
100	PI/2 BPSK	1	271		21.10		
100	PI/2 BPSK	135	0		21.16		22.2
100	PI/2 BPSK	135	69		21.17		22.2
100	PI/2 BPSK	135	138		21.15		22.2
100	PI/2 BPSK	270	0		21.17		
100	QPSK	1	1		21.24		22.2
100	QPSK	1	137		21.15		
100	QPSK	1	271		21.06		
100	QPSK	135	0		21.09		22.2
100	QPSK	135	69		21.09		
100	QPSK	135	138		21.07		
100	QPSK	270	0		21.14		22.2
100	16QAM	1	1		21.28		22.2
100	64QAM	1	1		20.60		21.7
100	256QAM	1	1		18.59		19.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.24	21.19	21.20	22.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.20	21.16	21.21	22.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.17	21.23	21.22	22.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.15	21.15	21.22	22.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.22	21.18	21.18	22.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.16	21.21	21.24	22.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.23	21.22	21.17	22.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.23	21.16	21.24	22.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.20	21.20	21.25	22.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.19	21.23	21.16	22.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.17	21.15	21.18	22.2



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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		21.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.42		
100	PI/2 BPSK	1	137		21.32		
100	PI/2 BPSK	1	271		21.29		
100	PI/2 BPSK	135	0		21.33		21.5
100	PI/2 BPSK	135	69		21.34		21.5
100	PI/2 BPSK	135	138		21.31		21.5
100	PI/2 BPSK	270	0		21.32		
100	QPSK	1	1		21.32		21.5
100	QPSK	1	137		21.32		
100	QPSK	1	271		21.20		
100	QPSK	135	0		21.33		21.5
100	QPSK	135	69		21.27		
100	QPSK	135	138		21.31		
100	QPSK	270	0		21.27		21.5
100	16QAM	1	1		21.27		21.5
100	64QAM	1	1		20.73		21.5
100	256QAM	1	1		18.76		19.5
Channel				649668	650000	650332	21.5
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.25	21.30	21.24	21.5
Channel				649334	650000	650666	21.5
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.28	21.26	21.25	21.5
Channel				649000	650000	651000	21.5
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.31	21.26	21.25	21.5
Channel				648668	650000	651332	21.5
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.26	21.30	21.28	21.5
Channel				648334	650000	651666	21.5
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.22	21.32	21.25	21.5
Channel				648000	650000	652000	21.5
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.31	21.27	21.30	21.5
Channel				647668	650000	652332	21.5
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.26	21.32	21.22	21.5
Channel				647500	650000	652500	21.5
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.23	21.26	21.27	21.5
Channel				647334	650000	652666	21.5
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.31	21.28	21.25	21.5
Channel				647168	650000	652832	21.5
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.28	21.24	21.28	21.5
Channel				647000	650000	653000	21.5
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.29	21.31	21.32	21.5



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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		21.29		21.5
100	PI/2 BPSK	1	137		21.25		
100	PI/2 BPSK	1	271		21.10		
100	PI/2 BPSK	135	0		21.16		21.5
100	PI/2 BPSK	135	69		21.17		21.5
100	PI/2 BPSK	135	138		21.15		21.5
100	PI/2 BPSK	270	0		21.17		
100	QPSK	1	1		21.24		21.5
100	QPSK	1	137		21.15		
100	QPSK	1	271		21.06		
100	QPSK	135	0		21.09		21.5
100	QPSK	135	69		21.09		
100	QPSK	135	138		21.07		
100	QPSK	270	0		21.14		21.5
100	16QAM	1	1		21.28		21.5
100	64QAM	1	1		20.60		21.5
100	256QAM	1	1		18.59		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.24	21.19	21.20	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.20	21.16	21.21	21.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.17	21.23	21.22	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.15	21.15	21.22	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.22	21.18	21.18	21.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.16	21.21	21.24	21.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.23	21.22	21.17	21.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.23	21.16	21.24	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.20	21.20	21.25	21.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.19	21.23	21.16	21.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.17	21.15	21.18	21.5



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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		17.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		17.01		
100	PI/2 BPSK	1	137		16.98		
100	PI/2 BPSK	1	271		16.58		
100	PI/2 BPSK	135	0		17.20		
100	PI/2 BPSK	135	69		17.00		
100	PI/2 BPSK	135	138		16.79		
100	PI/2 BPSK	270	0		17.01		
100	QPSK	1	1		17.00		
100	QPSK	1	137		16.98		
100	QPSK	1	271		16.59		
100	QPSK	135	0		17.19		
100	QPSK	135	69		16.98		
100	QPSK	135	138		16.79		
100	QPSK	270	0		16.98		
100	16QAM	1	1		16.99		
100	64QAM	1	1		17.00		
100	256QAM	1	1		16.98		
Channel				649668	650000	650332	17.5
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	16.94	16.91	17.01	
Channel				649334	650000	650666	17.5
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	16.95	16.93	16.96	
Channel				649000	650000	651000	17.5
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	16.88	16.98	16.98	
Channel				648668	650000	651332	17.5
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	16.95	16.99	17.00	
Channel				648334	650000	651666	17.5
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	16.93	16.97	16.98	
Channel				648000	650000	652000	17.5
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	16.86	16.99	16.96	
Channel				647668	650000	652332	17.5
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	16.87	16.95	16.93	
Channel				647500	650000	652500	17.5
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	16.89	16.98	16.98	
Channel				647334	650000	652666	17.5
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	16.96	16.93	17.00	
Channel				647168	650000	652832	17.5
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	16.96	16.92	17.00	
Channel				647000	650000	653000	17.5
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	16.87	16.98	16.91	



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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		17.08		17.5
100	PI/2 BPSK	1	137		16.92		
100	PI/2 BPSK	1	271		16.67		
100	PI/2 BPSK	135	0		16.98		17.5
100	PI/2 BPSK	135	69		16.88		17.5
100	PI/2 BPSK	135	138		16.83		17.5
100	PI/2 BPSK	270	0		16.86		
100	QPSK	1	1		17.07		17.5
100	QPSK	1	137		16.91		
100	QPSK	1	271		16.68		
100	QPSK	135	0		16.97		17.5
100	QPSK	135	69		16.87		
100	QPSK	135	138		16.82		
100	QPSK	270	0		16.85		17.5
100	16QAM	1	1		17.07		17.5
100	64QAM	1	1		17.03		17.5
100	256QAM	1	1		17.04		17.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.91	16.98	16.99	17.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.96	17.03	16.94	17.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.89	17.03	16.92	17.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.96	17.00	16.92	17.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.93	17.04	16.98	17.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.95	17.02	17.02	17.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.98	17.07	16.98	17.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.90	17.06	16.99	17.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.94	16.99	16.95	17.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.91	17.07	16.96	17.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.92	17.06	16.94	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		18.02		19.6
100	PI/2 BPSK	1	137		17.95		
100	PI/2 BPSK	1	271		17.64		
100	PI/2 BPSK	135	0		18.16		19.6
100	PI/2 BPSK	135	69		17.98		19.6
100	PI/2 BPSK	135	138		17.77		19.6
100	PI/2 BPSK	270	0		17.96		
100	QPSK	1	1		18.01		19.6
100	QPSK	1	137		17.96		
100	QPSK	1	271		17.66		
100	QPSK	135	0		18.15		19.6
100	QPSK	135	69		17.98		
100	QPSK	135	138		17.77		
100	QPSK	270	0		17.96		19.6
100	16QAM	1	1		18.00		19.6
100	64QAM	1	1		18.00		19.6
100	256QAM	1	1		18.01		19.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.00	18.02	18.01	19.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	17.96	17.95	18.01	19.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	17.94	17.94	17.95	19.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	17.92	17.94	17.93	19.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	17.91	17.99	17.98	19.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	17.94	17.93	17.95	19.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	17.91	17.95	17.94	19.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	17.95	18.00	17.91	19.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	17.92	17.99	17.98	19.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	17.99	17.94	17.96	19.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	17.96	18.00	17.99	19.6



<FR1 n78\_PC3\_Ant 6\_Index 5>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.11		19.6
100	PI/2 BPSK	1	137		17.92		
100	PI/2 BPSK	1	271		17.65		
100	PI/2 BPSK	135	0		17.96		19.6
100	PI/2 BPSK	135	69		17.90		19.6
100	PI/2 BPSK	135	138		17.85		19.6
100	PI/2 BPSK	270	0		17.89		
100	QPSK	1	1		18.10		19.6
100	QPSK	1	137		17.92		
100	QPSK	1	271		17.66		
100	QPSK	135	0		17.96		19.6
100	QPSK	135	69		17.89		
100	QPSK	135	138		17.85		
100	QPSK	270	0		17.89		19.6
100	16QAM	1	1		18.09		19.6
100	64QAM	1	1		17.99		19.6
100	256QAM	1	1		18.01		19.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.08	18.10	18.08	19.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.08	18.02	18.08	19.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.03	18.08	18.08	19.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.07	18.01	18.04	19.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.06	18.01	18.03	19.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.00	18.03	18.00	19.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.03	18.02	18.07	19.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.99	18.07	18.00	19.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.98	18.02	18.03	19.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.08	18.03	18.02	19.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.99	18.00	18.00	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		18.02		18.9
100	PI/2 BPSK	1	137		17.95		
100	PI/2 BPSK	1	271		17.64		
100	PI/2 BPSK	135	0		18.16		18.9
100	PI/2 BPSK	135	69		17.98		18.9
100	PI/2 BPSK	135	138		17.77		18.9
100	PI/2 BPSK	270	0		17.96		
100	QPSK	1	1		18.01		18.9
100	QPSK	1	137		17.96		
100	QPSK	1	271		17.66		
100	QPSK	135	0		18.15		18.9
100	QPSK	135	69		17.98		
100	QPSK	135	138		17.77		
100	QPSK	270	0		17.96		18.9
100	16QAM	1	1		18.00		18.9
100	64QAM	1	1		18.00		18.9
100	256QAM	1	1		18.01		18.9
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.00	18.02	18.01	18.9
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	17.96	17.95	18.01	18.9
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	17.94	17.94	17.95	18.9
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	17.92	17.94	17.93	18.9
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	17.91	17.99	17.98	18.9
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	17.94	17.93	17.95	18.9
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	17.91	17.95	17.94	18.9
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	17.95	18.00	17.91	18.9
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	17.92	17.99	17.98	18.9
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	17.99	17.94	17.96	18.9
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	17.96	18.00	17.99	18.9



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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		18.11		18.9
100	PI/2 BPSK	1	137		17.92		
100	PI/2 BPSK	1	271		17.65		
100	PI/2 BPSK	135	0		17.96		18.9
100	PI/2 BPSK	135	69		17.90		18.9
100	PI/2 BPSK	135	138		17.85		18.9
100	PI/2 BPSK	270	0		17.89		
100	QPSK	1	1		18.10		18.9
100	QPSK	1	137		17.92		
100	QPSK	1	271		17.66		
100	QPSK	135	0		17.96		18.9
100	QPSK	135	69		17.89		
100	QPSK	135	138		17.85		
100	QPSK	270	0		17.89		18.9
100	16QAM	1	1		18.09		18.9
100	64QAM	1	1		17.99		18.9
100	256QAM	1	1		18.01		18.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.08	18.10	18.08	18.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.08	18.02	18.08	18.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.03	18.08	18.08	18.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.07	18.01	18.04	18.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.06	18.01	18.03	18.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.00	18.03	18.00	18.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.03	18.02	18.07	18.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.99	18.07	18.00	18.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.98	18.02	18.03	18.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.08	18.03	18.02	18.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.99	18.00	18.00	18.9



<FR1 n78\_PC2\_Ant 6\_Index 2>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.30		25.2
100	PI/2 BPSK	1	137		24.26		
100	PI/2 BPSK	1	271		24.22		
100	PI/2 BPSK	135	0		24.33		25.2
100	PI/2 BPSK	135	69		24.36		25.2
100	PI/2 BPSK	135	138		24.29		25.2
100	PI/2 BPSK	270	0		24.32		
100	QPSK	1	1		24.20		25.2
100	QPSK	1	137		24.23		
100	QPSK	1	271		24.13		
100	QPSK	135	0		24.30		25.2
100	QPSK	135	69		24.34		
100	QPSK	135	138		24.19		
100	QPSK	270	0		24.29		25.2
100	16QAM	1	1		24.16		25.2
100	64QAM	1	1		23.95		24.7
100	256QAM	1	1		22.10		22.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.13	24.16	24.18	25.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.19	24.19	24.14	25.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.18	24.15	24.22	25.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.16	24.21	24.22	25.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.12	24.21	24.14	25.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.14	24.14	24.22	25.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.15	24.18	24.20	25.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.15	24.19	24.14	25.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.22	24.15	24.16	25.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.14	24.15	24.12	25.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.18	24.15	24.15	25.2



<FR1 n78\_PC2\_Ant 6\_Index 2>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		25.2
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.23		25.2
100	PI/2 BPSK	1	137		24.19		
100	PI/2 BPSK	1	271		24.17		
100	PI/2 BPSK	135	0		24.21		25.2
100	PI/2 BPSK	135	69		24.22		25.2
100	PI/2 BPSK	135	138		24.15		25.2
100	PI/2 BPSK	270	0		24.19		
100	QPSK	1	1		24.20		25.2
100	QPSK	1	137		24.13		
100	QPSK	1	271		24.14		
100	QPSK	135	0		24.12		25.2
100	QPSK	135	69		24.20		
100	QPSK	135	138		24.05		
100	QPSK	270	0		24.11		25.2
100	16QAM	1	1		24.22		25.2
100	64QAM	1	1		23.52		24.7
100	256QAM	1	1		21.75		22.7
Channel				633000	633332	633666	25.2
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.10	24.11	24.10	25.2
Channel				632668	633332	634000	25.2
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.19	24.12	24.18	25.2
Channel				632334	633332	634332	25.2
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.13	24.09	24.10	25.2
Channel				632000	633332	634666	25.2
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.14	24.19	24.18	25.2
Channel				631668	633332	635000	25.2
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.11	24.11	24.18	25.2
Channel				631334	633332	635332	25.2
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.12	24.15	24.18	25.2
Channel				631000	633332	635666	25.2
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.16	24.11	24.13	25.2
Channel				630834	633332	635832	25.2
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.13	24.10	24.09	25.2
Channel				630668	633332	636000	25.2
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.18	24.18	24.15	25.2
Channel				630500	633332	636166	25.2
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.09	24.19	24.16	25.2
Channel				630334	633332	636332	25.2
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.13	24.11	24.11	25.2



<FR1 n78\_PC2\_Ant 6\_Index 3>FCC Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.30		24.5
100	PI/2 BPSK	1	137		24.26		
100	PI/2 BPSK	1	271		24.22		
100	PI/2 BPSK	135	0		24.33		24.5
100	PI/2 BPSK	135	69		24.36		24.5
100	PI/2 BPSK	135	138		24.29		24.5
100	PI/2 BPSK	270	0		24.32		
100	QPSK	1	1		24.20		24.5
100	QPSK	1	137		24.23		
100	QPSK	1	271		24.13		
100	QPSK	135	0		24.30		24.5
100	QPSK	135	69		24.34		
100	QPSK	135	138		24.19		
100	QPSK	270	0		24.29		24.5
100	16QAM	1	1		24.16		24.5
100	64QAM	1	1		23.95		24.5
100	256QAM	1	1		22.10		23.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.13	24.16	24.18	24.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.19	24.19	24.14	24.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.18	24.15	24.22	24.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.16	24.21	24.22	24.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.12	24.21	24.14	24.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.14	24.14	24.22	24.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.15	24.18	24.20	24.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.15	24.19	24.14	24.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.22	24.15	24.16	24.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.14	24.15	24.12	24.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.18	24.15	24.15	24.5



<FR1 n78\_PC2\_Ant 6\_Index 3>FCC Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		24.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.23		24.5
100	PI/2 BPSK	1	137		24.19		
100	PI/2 BPSK	1	271		24.17		24.5
100	PI/2 BPSK	135	0		24.21		
100	PI/2 BPSK	135	69		24.22		24.5
100	PI/2 BPSK	135	138		24.15		
100	PI/2 BPSK	270	0		24.19		24.5
100	QPSK	1	1		24.20		
100	QPSK	1	137		24.13		24.5
100	QPSK	1	271		24.14		
100	QPSK	135	0		24.12		24.5
100	QPSK	135	69		24.20		
100	QPSK	135	138		24.05		24.5
100	QPSK	270	0		24.11		
100	16QAM	1	1		24.22		24.5
100	64QAM	1	1		23.52		
100	256QAM	1	1		21.75		22.5
Channel				633000	633332	633666	24.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.10	24.11	24.10	24.5
Channel				632668	633332	634000	24.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.19	24.12	24.18	24.5
Channel				632334	633332	634332	24.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.13	24.09	24.10	24.5
Channel				632000	633332	634666	24.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.14	24.19	24.18	24.5
Channel				631668	633332	635000	24.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.11	24.11	24.18	24.5
Channel				631334	633332	635332	24.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.12	24.15	24.18	24.5
Channel				631000	633332	635666	24.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.16	24.11	24.13	24.5
Channel				630834	633332	635832	24.5
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.13	24.10	24.09	24.5
Channel				630668	633332	636000	24.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.18	24.18	24.15	24.5
Channel				630500	633332	636166	24.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.09	24.19	24.16	24.5
Channel				630334	633332	636332	24.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.13	24.11	24.11	24.5





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.30		20.5
100	PI/2 BPSK	1	137		20.21		
100	PI/2 BPSK	1	271		20.17		
100	PI/2 BPSK	135	0		20.23		20.5
100	PI/2 BPSK	135	69		20.20		20.5
100	PI/2 BPSK	135	138		20.01		20.5
100	PI/2 BPSK	270	0		20.19		
100	QPSK	1	1		20.29		20.5
100	QPSK	1	137		20.23		
100	QPSK	1	271		20.17		
100	QPSK	135	0		20.22		20.5
100	QPSK	135	69		20.20		
100	QPSK	135	138		20.01		
100	QPSK	270	0		20.19		20.5
100	16QAM	1	1		20.28		20.5
100	64QAM	1	1		20.22		20.5
100	256QAM	1	1		20.20		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.28	20.29	20.27	20.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.18	20.27	20.26	20.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.28	20.24	20.25	20.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.19	20.24	20.25	20.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.25	20.29	20.20	20.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.22	20.22	20.26	20.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.25	20.27	20.18	20.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.19	20.27	20.20	20.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.26	20.23	20.20	20.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.27	20.26	20.27	20.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.27	20.21	20.24	20.5



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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		20.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.20		20.5
100	PI/2 BPSK	1	137		20.05		
100	PI/2 BPSK	1	271		19.88		20.5
100	PI/2 BPSK	135	0		20.12		
100	PI/2 BPSK	135	69		20.04		20.5
100	PI/2 BPSK	135	138		20.04		
100	PI/2 BPSK	270	0		20.03		20.5
100	QPSK	1	1		20.18		
100	QPSK	1	137		20.03		20.5
100	QPSK	1	271		19.88		
100	QPSK	135	0		20.13		20.5
100	QPSK	135	69		20.04		
100	QPSK	135	138		20.04		20.5
100	QPSK	270	0		20.01		
100	16QAM	1	1		20.17		20.5
100	64QAM	1	1		20.10		
100	256QAM	1	1		20.08		20.5
Channel				633000	633332	633666	20.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.18	20.19	20.18	20.5
Channel				632668	633332	634000	20.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.13	20.14	20.16	20.5
Channel				632334	633332	634332	20.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.15	20.19	20.14	20.5
Channel				632000	633332	634666	20.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.17	20.18	20.17	20.5
Channel				631668	633332	635000	20.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.15	20.18	20.11	20.5
Channel				631334	633332	635332	20.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.18	20.18	20.09	20.5
Channel				631000	633332	635666	20.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.15	20.17	20.08	20.5
Channel				630834	633332	635832	20.5
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.15	20.12	20.13	20.5
Channel				630668	633332	636000	20.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.16	20.14	20.09	20.5
Channel				630500	633332	636166	20.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.16	20.11	20.13	20.5
Channel				630334	633332	636332	20.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.08	20.15	20.13	20.5



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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		21.05		22.6
100	PI/2 BPSK	1	137		20.99		
100	PI/2 BPSK	1	271		20.62		
100	PI/2 BPSK	135	0		21.16		22.6
100	PI/2 BPSK	135	69		20.96		22.6
100	PI/2 BPSK	135	138		20.74		22.6
100	PI/2 BPSK	270	0		20.95		
100	QPSK	1	1		21.04		22.6
100	QPSK	1	137		20.98		
100	QPSK	1	271		20.61		
100	QPSK	135	0		21.15		22.6
100	QPSK	135	69		20.95		
100	QPSK	135	138		20.74		
100	QPSK	270	0		20.94		22.6
100	16QAM	1	1		21.04		22.6
100	64QAM	1	1		20.99		22.6
100	256QAM	1	1		21.00		22.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.04	21.05	21.03	22.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.94	20.95	21.01	22.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.03	21.05	20.99	22.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.97	21.00	20.96	22.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.97	20.95	21.00	22.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.96	20.99	20.97	22.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.00	20.98	20.97	22.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.99	20.99	20.99	22.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.98	20.97	20.94	22.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.99	20.95	20.94	22.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.02	20.97	21.03	22.6



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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		20.94		22.6
100	PI/2 BPSK	1	137		20.87		
100	PI/2 BPSK	1	271		20.62		
100	PI/2 BPSK	135	0		20.98		22.6
100	PI/2 BPSK	135	69		20.91		22.6
100	PI/2 BPSK	135	138		20.84		22.6
100	PI/2 BPSK	270	0		20.88		
100	QPSK	1	1		20.93		22.6
100	QPSK	1	137		20.88		
100	QPSK	1	271		20.62		
100	QPSK	135	0		20.95		22.6
100	QPSK	135	69		20.88		
100	QPSK	135	138		20.84		
100	QPSK	270	0		20.87		22.6
100	16QAM	1	1		20.93		22.6
100	64QAM	1	1		20.92		22.6
100	256QAM	1	1		20.92		22.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.93	20.94	20.92	22.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.84	20.89	20.89	22.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.92	20.94	20.82	22.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.87	20.86	20.86	22.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.87	20.85	20.92	22.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.84	20.90	20.85	22.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.84	20.91	20.82	22.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.86	20.88	20.86	22.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.83	20.92	20.84	22.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.91	20.86	20.86	22.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.88	20.91	20.90	22.6



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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		21.05		21.9
100	PI/2 BPSK	1	137		20.99		
100	PI/2 BPSK	1	271		20.62		
100	PI/2 BPSK	135	0		21.16		21.9
100	PI/2 BPSK	135	69		20.96		21.9
100	PI/2 BPSK	135	138		20.74		21.9
100	PI/2 BPSK	270	0		20.95		
100	QPSK	1	1		21.04		21.9
100	QPSK	1	137		20.98		
100	QPSK	1	271		20.61		
100	QPSK	135	0		21.15		21.9
100	QPSK	135	69		20.95		
100	QPSK	135	138		20.74		
100	QPSK	270	0		20.94		21.9
100	16QAM	1	1		21.04		21.9
100	64QAM	1	1		20.99		21.9
100	256QAM	1	1		21.00		21.9
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.04	21.05	21.03	21.9
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.94	20.95	21.01	21.9
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.03	21.05	20.99	21.9
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.97	21.00	20.96	21.9
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.97	20.95	21.00	21.9
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.96	20.99	20.97	21.9
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.00	20.98	20.97	21.9
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.99	20.99	20.99	21.9
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.98	20.97	20.94	21.9
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.99	20.95	20.94	21.9
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.02	20.97	21.03	21.9



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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		21.9
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.94		21.9
100	PI/2 BPSK	1	137		20.87		
100	PI/2 BPSK	1	271		20.62		21.9
100	PI/2 BPSK	135	0		20.98		
100	PI/2 BPSK	135	69		20.91		21.9
100	PI/2 BPSK	135	138		20.84		
100	PI/2 BPSK	270	0		20.88		21.9
100	QPSK	1	1		20.93		
100	QPSK	1	137		20.88		21.9
100	QPSK	1	271		20.62		
100	QPSK	135	0		20.95		21.9
100	QPSK	135	69		20.88		
100	QPSK	135	138		20.84		21.9
100	QPSK	270	0		20.87		
100	16QAM	1	1		20.93		21.9
100	64QAM	1	1		20.92		
100	256QAM	1	1		20.92		21.9
Channel				633000	633332	633666	21.9
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.93	20.94	20.92	21.9
Channel				632668	633332	634000	21.9
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.84	20.89	20.89	21.9
Channel				632334	633332	634332	21.9
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.92	20.94	20.82	21.9
Channel				632000	633332	634666	21.9
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.87	20.86	20.86	21.9
Channel				631668	633332	635000	21.9
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.87	20.85	20.92	21.9
Channel				631334	633332	635332	21.9
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.84	20.90	20.85	21.9
Channel				631000	633332	635666	21.9
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.84	20.91	20.82	21.9
Channel				630834	633332	635832	21.9
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.86	20.88	20.86	21.9
Channel				630668	633332	636000	21.9
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.83	20.92	20.84	21.9
Channel				630500	633332	636166	21.9
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.91	20.86	20.86	21.9
Channel				630334	633332	636332	21.9
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.88	20.91	20.90	21.9



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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		23.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.17		23.5
100	PI/2 BPSK	1	137		21.90		
100	PI/2 BPSK	1	271		21.43		
100	PI/2 BPSK	135	0		21.99		23.0
100	PI/2 BPSK	135	69		21.81		23.5
100	PI/2 BPSK	135	138		21.36		23.0
100	PI/2 BPSK	270	0		21.78		
100	QPSK	1	1		22.15		23.5
100	QPSK	1	137		21.84		
100	QPSK	1	271		21.41		
100	QPSK	135	0		21.46		23.5
100	QPSK	135	69		21.78		
100	QPSK	135	138		20.95		
100	QPSK	270	0		20.87		22.5
100	16QAM	1	1		21.22		22.5
100	64QAM	1	1		19.70		21.0
100	256QAM	1	1		17.75		19.0
Channel				649668	650000	650332	23.5
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.70	21.59	21.60	23.5
Channel				649334	650000	650666	23.5
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.63	21.52	21.60	23.5
Channel				649000	650000	651000	23.5
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.65	21.58	21.60	23.5
Channel				648668	650000	651332	23.5
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.62	21.55	21.51	23.5
Channel				648334	650000	651666	23.5
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.65	21.57	21.59	23.5
Channel				648000	650000	652000	23.5
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.68	21.59	21.50	23.5
Channel				647668	650000	652332	23.5
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.60	21.50	21.56	23.5
Channel				647500	650000	652500	23.5
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.60	21.52	21.59	23.5
Channel				647334	650000	652666	23.5
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.62	21.50	21.54	23.5
Channel				647168	650000	652832	23.5
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.64	21.60	21.55	23.5
Channel				647000	650000	653000	23.5
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.61	21.50	21.58	23.5



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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		22.37		23.5
100	PI/2 BPSK	1	137		22.15		
100	PI/2 BPSK	1	271		21.91		
100	PI/2 BPSK	135	0		22.28		23.0
100	PI/2 BPSK	135	69		22.15		23.5
100	PI/2 BPSK	135	138		22.12		23.0
100	PI/2 BPSK	270	0		22.15		
100	QPSK	1	1		22.34		23.5
100	QPSK	1	137		22.16		
100	QPSK	1	271		21.90		
100	QPSK	135	0		21.83		23.5
100	QPSK	135	69		22.14		
100	QPSK	135	138		21.61		
100	QPSK	270	0		21.23		22.5
100	16QAM	1	1		21.43		22.5
100	64QAM	1	1		19.87		21.0
100	256QAM	1	1		17.86		19.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.90	21.96	21.93	23.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.80	21.87	21.85	23.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.86	21.93	21.93	23.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.86	21.95	21.83	23.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.83	21.96	21.89	23.5
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	21.91	23.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.82	21.90	21.90	23.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.80	21.92	21.83	23.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.83	21.95	21.87	23.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.84	21.93	21.93	23.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.88	21.93	21.86	23.5





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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		20.4
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.22		20.4
100	PI/2 BPSK	1	137		20.04		
100	PI/2 BPSK	1	271		19.50		
100	PI/2 BPSK	135	0		20.21		20.4
100	PI/2 BPSK	135	69		20.03		20.4
100	PI/2 BPSK	135	138		19.77		20.4
100	PI/2 BPSK	270	0		20.01		
100	QPSK	1	1		20.19		20.4
100	QPSK	1	137		20.05		
100	QPSK	1	271		19.50		
100	QPSK	135	0		20.20		20.4
100	QPSK	135	69		20.03		
100	QPSK	135	138		19.77		
100	QPSK	270	0		20.01		20.4
100	16QAM	1	1		20.19		20.4
100	64QAM	1	1		19.62		20.4
100	256QAM	1	1		17.65		19.0
Channel				649668	650000	650332	20.4
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.20	20.21	20.21	20.4
Channel				649334	650000	650666	20.4
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.14	20.19	20.13	20.4
Channel				649000	650000	651000	20.4
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.19	20.13	20.12	20.4
Channel				648668	650000	651332	20.4
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.14	20.15	20.18	20.4
Channel				648334	650000	651666	20.4
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.11	20.18	20.19	20.4
Channel				648000	650000	652000	20.4
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.16	20.21	20.14	20.4
Channel				647668	650000	652332	20.4
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.16	20.16	20.13	20.4
Channel				647500	650000	652500	20.4
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.16	20.18	20.12	20.4
Channel				647334	650000	652666	20.4
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.20	20.18	20.11	20.4
Channel				647168	650000	652832	20.4
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.20	20.17	20.13	20.4
Channel				647000	650000	653000	20.4
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.12	20.21	20.12	20.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.4
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.26		20.4
100	PI/2 BPSK	1	137		20.03		
100	PI/2 BPSK	1	271		19.59		20.4
100	PI/2 BPSK	135	0		20.04		
100	PI/2 BPSK	135	69		19.94		20.4
100	PI/2 BPSK	135	138		19.84		
100	PI/2 BPSK	270	0		19.93		20.4
100	QPSK	1	1		20.22		
100	QPSK	1	137		19.99		20.4
100	QPSK	1	271		19.59		
100	QPSK	135	0		20.05		20.4
100	QPSK	135	69		19.95		
100	QPSK	135	138		19.85		20.4
100	QPSK	270	0		19.93		
100	16QAM	1	1		20.20		20.4
100	64QAM	1	1		19.63		20.4
100	256QAM	1	1		17.65		19.5
Channel				633000	633332	633666	20.4
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.24	20.20	20.22	20.4
Channel				632668	633332	634000	20.4
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.17	20.10	20.12	20.4
Channel				632334	633332	634332	20.4
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.15	20.17	20.18	20.4
Channel				632000	633332	634666	20.4
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.22	20.14	20.13	20.4
Channel				631668	633332	635000	20.4
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.20	20.17	20.16	20.4
Channel				631334	633332	635332	20.4
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.17	20.11	20.17	20.4
Channel				631000	633332	635666	20.4
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.17	20.10	20.17	20.4
Channel				630834	633332	635832	20.4
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.24	20.11	20.18	20.4
Channel				630668	633332	636000	20.4
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.22	20.12	20.19	20.4
Channel				630500	633332	636166	20.4
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.22	20.12	20.21	20.4
Channel				630334	633332	636332	20.4
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.14	20.15	20.17	20.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		21.1
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.22		21.1
100	PI/2 BPSK	1	137		20.04		
100	PI/2 BPSK	1	271		19.50		
100	PI/2 BPSK	135	0		20.21		21.1
100	PI/2 BPSK	135	69		20.03		21.1
100	PI/2 BPSK	135	138		19.77		21.1
100	PI/2 BPSK	270	0		20.01		
100	QPSK	1	1		20.19		21.1
100	QPSK	1	137		20.05		
100	QPSK	1	271		19.50		
100	QPSK	135	0		20.20		21.1
100	QPSK	135	69		20.03		
100	QPSK	135	138		19.77		
100	QPSK	270	0		20.01		21.1
100	16QAM	1	1		20.19		21.1
100	64QAM	1	1		19.62		21.0
100	256QAM	1	1		17.65		19.0
Channel				649668	650000	650332	21.1
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.20	20.21	20.21	21.1
Channel				649334	650000	650666	21.1
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.14	20.19	20.13	21.1
Channel				649000	650000	651000	21.1
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.19	20.13	20.12	21.1
Channel				648668	650000	651332	21.1
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.14	20.15	20.18	21.1
Channel				648334	650000	651666	21.1
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.11	20.18	20.19	21.1
Channel				648000	650000	652000	21.1
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.16	20.21	20.14	21.1
Channel				647668	650000	652332	21.1
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.16	20.16	20.13	21.1
Channel				647500	650000	652500	21.1
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.16	20.18	20.12	21.1
Channel				647334	650000	652666	21.1
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.20	20.18	20.11	21.1
Channel				647168	650000	652832	21.1
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.20	20.17	20.13	21.1
Channel				647000	650000	653000	21.1
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.12	20.21	20.12	21.1