



<FR1 n41\_HPUE\_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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.26	23.30	23.26	24.7
100	PI/2 BPSK	1	137	22.90	22.96	22.92	
100	PI/2 BPSK	1	271	22.95	23.02	22.95	
100	PI/2 BPSK	135	0	22.87	22.93	22.83	24.7
100	PI/2 BPSK	135	69	22.84	22.94	22.85	24.7
100	PI/2 BPSK	135	138	22.89	22.93	22.83	24.7
100	PI/2 BPSK	270	0	22.88	22.93	22.88	
100	QPSK	1	1	23.23	23.26	23.22	24.7
100	QPSK	1	137	22.83	22.93	22.86	
100	QPSK	1	271	22.83	22.92	22.87	
100	QPSK	135	0	22.83	22.86	22.81	24.7
100	QPSK	135	69	22.79	22.84	22.75	24.7
100	QPSK	135	138	22.79	22.88	22.82	24.7
100	QPSK	270	0	22.79	22.88	22.81	
100	16QAM	1	1	23.22	23.28	23.20	24.7
100	64QAM	1	1	23.14	23.20	23.17	24.7
100	256QAM	1	1	22.19	22.22	22.17	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.07	23.11	23.12	24.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.14	23.20	23.10	24.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.06	23.15	23.12	24.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.16	23.20	23.08	24.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.15	23.17	23.08	24.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.14	23.13	23.12	24.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.11	23.11	23.10	24.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.07	23.15	23.09	24.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.12	23.12	23.13	24.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.07	23.12	23.08	24.7



<FR1 n41\_HPUE\_Ant 1\_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.77	21.79	21.68	22.3
100	PI/2 BPSK	1	137	20.92	21.01	20.98	
100	PI/2 BPSK	1	271	21.38	21.45	21.45	
100	PI/2 BPSK	135	0	21.13	21.14	21.04	22.3
100	PI/2 BPSK	135	69	21.14	21.15	21.08	22.3
100	PI/2 BPSK	135	138	21.10	21.13	21.09	22.3
100	PI/2 BPSK	270	0	21.18	21.18	21.14	
100	QPSK	1	1	21.68	21.78	21.71	22.3
100	QPSK	1	137	20.95	21.00	20.96	
100	QPSK	1	271	21.38	21.46	21.37	
100	QPSK	135	0	21.20	21.24	21.21	22.3
100	QPSK	135	69	21.04	21.05	21.04	22.3
100	QPSK	135	138	21.05	21.12	21.05	22.3
100	QPSK	270	0	21.18	21.19	21.09	
100	16QAM	1	1	21.73	21.78	21.69	22.3
100	64QAM	1	1	21.68	21.70	21.69	22.3
100	256QAM	1	1	21.67	21.73	21.66	22.2
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.72	21.70	21.64	22.3
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.73	21.77	21.60	22.3
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.72	21.71	21.65	22.3
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.68	21.70	21.65	22.3
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.74	21.75	21.61	22.3
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.68	21.72	21.59	22.3
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.70	21.73	21.61	22.3
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.75	21.70	21.65	22.3
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.68	21.73	21.61	22.3
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.67	21.77	21.59	22.3



<FR1 n48_Ant 1_Index 2>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
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	13.38	15.10	13.15	14.00	16.20	14.00
40	PI/2 BPSK	1	104	13.00	15.07	12.81	14.00	16.20	13.50
40	PI/2 BPSK	50	25	13.20	15.13	12.99	14.00	16.20	13.50
40	PI/2 BPSK	1	0	13.40	15.08	13.14	14.00	16.20	14.00
40	PI/2 BPSK	1	105	12.99	15.01	12.83	13.50	16.20	13.50
40	PI/2 BPSK	100	0	13.23	15.12	13.04	14.00	16.20	14.00
40	QPSK	1	1	9.93	15.07	9.67	10.50	16.20	10.50
40	QPSK	1	104	9.52	15.03	9.43	10.50	16.20	10.00
40	QPSK	50	25	9.65	14.99	9.51	10.50	16.20	10.50
40	QPSK	1	0	9.86	15.01	9.65	10.50	16.20	10.50
40	QPSK	1	105	9.54	15.07	9.45	10.50	16.20	10.00
40	QPSK	100	0	9.68	15.03	9.52	10.50	16.20	10.50
40	16QAM	1	1	9.82	15.01	9.69	10.50	16.20	10.50
40	64QAM	1	1	9.98	14.99	9.56	10.50	16.20	10.50
40	256QAM	1	1	9.76	15.07	9.59	10.50	16.20	10.50
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	15.00	15.20	15.10	16.20	16.20	16.20
20	PI/2 BPSK	1	49	14.96	15.08	15.07	16.20	16.20	16.20
20	PI/2 BPSK	25	12	14.95	15.12	15.03	16.20	16.20	16.20
20	PI/2 BPSK	1	0	14.94	15.14	15.08	16.20	16.20	16.20
20	PI/2 BPSK	1	50	14.86	15.15	15.09	16.20	16.20	16.20
20	PI/2 BPSK	50	0	15.20	15.19	15.17	16.20	16.20	16.20
20	QPSK	1	1	15.09	15.12	15.12	16.20	16.20	16.20
20	QPSK	1	49	15.04	15.04	15.08	16.20	16.20	16.20
20	QPSK	25	12	15.11	15.01	15.07	16.20	16.20	16.20
20	QPSK	1	0	15.14	15.02	15.05	16.20	16.20	16.20
20	QPSK	1	50	15.15	15.21	15.13	16.20	16.20	16.20
20	QPSK	50	0	15.09	15.13	15.08	16.20	16.20	16.20
20	16QAM	1	1	15.13	15.16	15.09	16.20	16.20	16.20
20	64QAM	1	1	14.80	14.94	14.90	16.20	16.20	16.20
20	256QAM	1	1	14.92	15.02	14.98	16.20	16.20	16.20
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	15.04	14.90	14.95	16.20	16.20	16.20
15	PI/2 BPSK	1	36	14.93	14.96	14.88	16.20	16.20	16.20
15	PI/2 BPSK	18	9	14.99	15.08	15.03	16.20	16.20	16.20
15	PI/2 BPSK	1	0	14.99	15.03	15.01	16.20	16.20	16.20
15	PI/2 BPSK	1	37	14.86	14.82	14.81	16.20	16.20	16.20
15	PI/2 BPSK	36	0	15.01	14.93	15.03	16.20	16.20	16.20
15	QPSK	1	1	14.88	14.94	14.93	16.20	16.20	16.20
15	QPSK	1	36	14.97	14.97	14.92	16.20	16.20	16.20
15	QPSK	18	9	14.91	14.81	14.85	16.20	16.20	16.20
15	QPSK	1	0	14.85	14.96	14.94	16.20	16.20	16.20
15	QPSK	1	37	14.89	14.97	14.99	16.20	16.20	16.20
15	QPSK	36	0	14.98	14.88	14.87	16.20	16.20	16.20
15	16QAM	1	1	14.89	14.94	14.81	16.20	16.20	16.20
15	64QAM	1	1	14.82	14.79	14.92	16.20	16.20	16.20
15	256QAM	1	1	14.88	14.87	14.88	16.20	16.20	16.20
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	14.92	14.94	14.80	16.20	16.20	16.20
10	PI/2 BPSK	1	22	14.97	14.94	14.86	16.20	16.20	16.20
10	PI/2 BPSK	12	6	15.05	14.94	14.99	16.20	16.20	16.20
10	PI/2 BPSK	1	0	15.03	14.95	14.93	16.20	16.20	16.20
10	PI/2 BPSK	1	23	14.92	14.85	14.76	16.20	16.20	16.20
10	PI/2 BPSK	24	0	14.98	15.06	14.89	16.20	16.20	16.20
10	QPSK	1	1	14.94	15.02	14.87	16.20	16.20	16.20
10	QPSK	1	22	14.88	14.84	14.90	16.20	16.20	16.20
10	QPSK	12	6	14.90	14.81	14.75	16.20	16.20	16.20
10	QPSK	1	0	14.87	14.85	14.88	16.20	16.20	16.20
10	QPSK	1	23	14.87	15.01	14.91	16.20	16.20	16.20
10	QPSK	24	0	14.96	14.88	14.84	16.20	16.20	16.20
10	16QAM	1	1	14.88	14.87	14.90	16.20	16.20	16.20
10	64QAM	1	1	14.92	14.80	14.69	16.20	16.20	16.20
10	256QAM	1	1	14.94	14.96	14.80	16.20	16.20	16.20



<FR1 n48_Ant 1_Index 3>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
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	13.38	13.09	13.15	14.00	14.10	14.00
40	PI/2 BPSK	1	104	13.00	12.96	12.81	14.00	14.10	13.50
40	PI/2 BPSK	50	25	13.20	13.10	12.99	14.00	14.10	13.50
40	PI/2 BPSK	1	0	13.40	12.99	13.14	14.00	14.10	14.00
40	PI/2 BPSK	1	105	12.99	12.91	12.83	13.50	14.10	13.50
40	PI/2 BPSK	100	0	13.23	13.09	13.04	14.00	14.10	14.00
40	QPSK	1	1	9.93	13.02	9.67	10.50	14.10	10.50
40	QPSK	1	104	9.52	13.01	9.43	10.50	14.10	10.00
40	QPSK	50	25	9.65	12.89	9.51	10.50	14.10	10.50
40	QPSK	1	0	9.86	12.92	9.65	10.50	14.10	10.50
40	QPSK	1	105	9.54	12.99	9.45	10.50	14.10	10.00
40	QPSK	100	0	9.68	12.99	9.52	10.50	14.10	10.50
40	16QAM	1	1	9.82	12.92	9.69	10.50	14.10	10.50
40	64QAM	1	1	9.98	12.98	9.56	10.50	14.10	10.50
40	256QAM	1	1	9.76	13.00	9.59	10.50	14.10	10.50
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	12.94	13.13	13.02	14.10	14.10	14.10
20	PI/2 BPSK	1	49	12.93	13.07	12.98	14.10	14.10	14.10
20	PI/2 BPSK	25	12	12.86	13.06	13.00	14.10	14.10	14.10
20	PI/2 BPSK	1	0	12.84	13.08	13.05	14.10	14.10	14.10
20	PI/2 BPSK	1	50	12.78	13.05	13.08	14.10	14.10	14.10
20	PI/2 BPSK	50	0	13.13	13.08	13.09	14.10	14.10	14.10
20	QPSK	1	1	13.06	13.03	13.04	14.10	14.10	14.10
20	QPSK	1	49	12.94	13.01	13.05	14.10	14.10	14.10
20	QPSK	25	12	13.04	12.90	13.01	14.10	14.10	14.10
20	QPSK	1	0	13.05	12.93	12.94	14.10	14.10	14.10
20	QPSK	1	50	13.13	13.16	13.06	14.10	14.10	14.10
20	QPSK	50	0	13.05	13.04	13.02	14.10	14.10	14.10
20	16QAM	1	1	13.09	13.06	13.07	14.10	14.10	14.10
20	64QAM	1	1	12.78	12.89	12.79	14.10	14.10	14.10
20	256QAM	1	1	12.84	13.01	12.94	14.10	14.10	14.10
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	13.00	12.86	12.84	14.10	14.10	14.10
15	PI/2 BPSK	1	36	12.90	12.89	12.85	14.10	14.10	14.10
15	PI/2 BPSK	18	9	12.96	12.99	13.00	14.10	14.10	14.10
15	PI/2 BPSK	1	0	12.91	13.02	12.94	14.10	14.10	14.10
15	PI/2 BPSK	1	37	12.85	12.80	12.79	14.10	14.10	14.10
15	PI/2 BPSK	36	0	12.98	12.92	12.94	14.10	14.10	14.10
15	QPSK	1	1	12.77	12.90	12.87	14.10	14.10	14.10
15	QPSK	1	36	12.88	12.92	12.90	14.10	14.10	14.10
15	QPSK	18	9	12.83	12.70	12.79	14.10	14.10	14.10
15	QPSK	1	0	12.80	12.95	12.88	14.10	14.10	14.10
15	QPSK	1	37	12.82	12.95	12.93	14.10	14.10	14.10
15	QPSK	36	0	12.90	12.80	12.83	14.10	14.10	14.10
15	16QAM	1	1	12.78	12.92	12.78	14.10	14.10	14.10
15	64QAM	1	1	12.81	12.69	12.81	14.10	14.10	14.10
15	256QAM	1	1	12.87	12.76	12.87	14.10	14.10	14.10
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



**FCC SAR TEST REPORT**

**Report No. :FA451606B**

10	PI/2 BPSK	1	1	12.83	12.86	12.71	14.10	14.10	14.10
10	PI/2 BPSK	1	22	12.93	12.88	12.79	14.10	14.10	14.10
10	PI/2 BPSK	12	6	12.95	12.90	12.95	14.10	14.10	14.10
10	PI/2 BPSK	1	0	12.98	12.89	12.88	14.10	14.10	14.10
10	PI/2 BPSK	1	23	12.84	12.78	12.66	14.10	14.10	14.10
10	PI/2 BPSK	24	0	12.95	12.96	12.86	14.10	14.10	14.10
10	QPSK	1	1	12.90	12.97	12.84	14.10	14.10	14.10
10	QPSK	1	22	12.87	12.74	12.85	14.10	14.10	14.10
10	QPSK	12	6	12.89	12.70	12.67	14.10	14.10	14.10
10	QPSK	1	0	12.86	12.76	12.81	14.10	14.10	14.10
10	QPSK	1	23	12.82	12.90	12.85	14.10	14.10	14.10
10	QPSK	24	0	12.94	12.87	12.76	14.10	14.10	14.10
10	16QAM	1	1	12.87	12.81	12.85	14.10	14.10	14.10
10	64QAM	1	1	12.90	12.70	12.62	14.10	14.10	14.10
10	256QAM	1	1	12.90	12.92	12.72	14.10	14.10	14.10



**FCC SAR TEST REPORT**

**Report No. :FA451606B**

<FR1 n48_Ant 1_Index 4/5/6 >							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
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	13.38	19.40	13.15	14.00	20.20	14.00
40	PI/2 BPSK	1	104	13.00	19.47	12.81	14.00	20.00	13.50
40	PI/2 BPSK	50	25	13.20	19.91	12.99	14.00	21.20	13.50
40	PI/2 BPSK	1	0	13.40	19.34	13.14	14.00	20.20	14.00
40	PI/2 BPSK	1	105	12.99	19.47	12.83	13.50	20.00	13.50
40	PI/2 BPSK	100	0	13.23	19.24	13.04	14.00	20.00	14.00
40	QPSK	1	1	9.93	19.34	9.67	10.50	20.20	10.50
40	QPSK	1	104	9.52	19.46	9.43	10.50	20.00	10.00
40	QPSK	50	25	9.65	19.85	9.51	10.50	21.20	10.50
40	QPSK	1	0	9.86	19.36	9.65	10.50	20.20	10.50
40	QPSK	1	105	9.54	19.48	9.45	10.50	20.00	10.00
40	QPSK	100	0	9.68	19.18	9.52	10.50	20.00	10.50
40	16QAM	1	1	9.82	19.45	9.69	10.50	20.20	10.50
40	64QAM	1	1	9.98	19.49	9.56	10.50	20.20	10.50
40	256QAM	1	1	9.76	18.98	9.59	10.50	19.50	10.50
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	19.49	20.00	19.86	20.20	21.20	21.20
20	PI/2 BPSK	1	49	19.61	19.93	19.11	21.20	21.20	19.70
20	PI/2 BPSK	25	12	19.69	19.92	19.75	21.20	21.20	21.20
20	PI/2 BPSK	1	0	19.43	19.99	19.81	20.20	21.20	21.20
20	PI/2 BPSK	1	50	19.57	19.91	19.45	21.20	21.20	20.00
20	PI/2 BPSK	50	0	19.37	19.92	19.46	20.20	21.20	20.00
20	QPSK	1	1	19.45	19.84	19.81	20.20	21.20	21.20
20	QPSK	1	49	19.81	20.00	19.40	21.20	21.20	20.00
20	QPSK	25	12	19.82	19.99	19.82	21.20	21.20	21.20
20	QPSK	1	0	19.45	19.92	19.81	20.20	21.20	21.20
20	QPSK	1	50	19.79	19.88	19.42	21.20	21.20	20.00
20	QPSK	50	0	19.43	19.86	19.20	20.20	21.20	20.20
20	16QAM	1	1	18.76	19.87	19.73	19.50	21.20	21.20
20	64QAM	1	1	18.65	19.85	19.76	19.50	21.20	21.20
20	256QAM	1	1	19.24	19.34	18.79	20.00	20.00	19.50
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	19.72	20.28	20.11	20.20	21.20	21.20
15	PI/2 BPSK	1	36	20.11	20.17	19.42	21.20	21.20	19.70
15	PI/2 BPSK	18	9	20.03	20.11	20.15	21.20	21.20	21.20
15	PI/2 BPSK	1	0	19.73	20.22	20.12	20.20	21.20	21.20
15	PI/2 BPSK	1	37	20.03	20.08	19.43	21.20	21.20	19.70
15	PI/2 BPSK	36	0	19.64	20.18	19.46	20.20	21.20	19.70
15	QPSK	1	1	19.75	20.10	20.11	20.20	21.20	21.20
15	QPSK	1	36	20.12	20.23	19.44	21.20	21.20	19.70
15	QPSK	18	9	20.09	20.21	20.09	21.20	21.20	21.20
15	QPSK	1	0	19.66	20.19	20.13	20.20	21.20	21.20
15	QPSK	1	37	20.13	20.05	19.46	21.20	21.20	19.70
15	QPSK	36	0	19.66	20.15	19.51	20.20	21.20	20.20
15	16QAM	1	1	18.84	20.07	20.13	19.50	21.20	21.20
15	64QAM	1	1	18.89	20.04	20.15	19.50	21.20	21.20
15	256QAM	1	1	19.57	19.23	19.33	20.20	19.70	19.70
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



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10	PI/2 BPSK	1	1	19.90	19.93	19.95	21.20	21.20	21.20
10	PI/2 BPSK	1	22	19.84	19.79	19.80	21.20	21.20	21.20
10	PI/2 BPSK	12	6	19.73	19.71	19.78	21.20	21.20	21.20
10	PI/2 BPSK	1	0	19.87	19.84	19.83	21.20	21.20	21.20
10	PI/2 BPSK	1	23	19.69	19.72	19.69	21.20	21.20	21.20
10	PI/2 BPSK	24	0	19.81	19.79	19.82	21.20	21.20	21.20
10	QPSK	1	1	19.71	19.70	19.74	21.20	21.20	21.20
10	QPSK	1	22	19.83	19.86	19.88	21.20	21.20	21.20
10	QPSK	12	6	19.87	19.81	19.86	21.20	21.20	21.20
10	QPSK	1	0	19.84	19.84	19.85	21.20	21.20	21.20
10	QPSK	1	23	19.66	19.66	19.65	21.20	21.20	21.20
10	QPSK	24	0	19.82	19.80	19.82	21.20	21.20	21.20
10	16QAM	1	1	19.69	19.67	19.70	21.20	21.20	21.20
10	64QAM	1	1	19.64	19.70	19.64	21.20	21.20	21.20
10	256QAM	1	1	19.16	19.14	18.97	20.00	20.00	19.50





<FR1 n48_Ant 6_Index 2/3>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
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	13.49	20.02	13.37	14.00	21.00	14.00
40	PI/2 BPSK	1	104	13.04	19.50	13.04	14.00	20.50	14.00
40	PI/2 BPSK	50	25	13.43	23.94	13.13	14.00	24.60	14.00
40	PI/2 BPSK	1	0	13.53	20.03	13.34	14.00	21.00	14.00
40	PI/2 BPSK	1	105	13.06	19.44	13.05	14.00	20.00	14.00
40	PI/2 BPSK	100	0	13.33	19.42	13.13	14.00	20.00	14.00
40	QPSK	1	1	13.51	19.99	13.43	14.00	21.00	14.00
40	QPSK	1	104	12.95	19.48	13.00	14.00	20.50	14.00
40	QPSK	50	25	13.34	23.92	13.13	14.00	24.60	14.00
40	QPSK	1	0	13.47	19.99	13.39	14.00	21.00	14.00
40	QPSK	1	105	13.09	19.45	13.04	14.00	20.00	14.00
40	QPSK	100	0	13.40	19.37	13.15	14.00	20.00	14.00
40	16QAM	1	1	12.93	19.95	12.85	14.00	21.00	14.00
40	64QAM	1	1	13.01	20.19	12.93	14.00	21.00	14.00
40	256QAM	1	1	12.77	19.70	12.80	13.50	20.50	13.50
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	19.87	24.07	23.73	20.50	24.60	24.60
20	PI/2 BPSK	1	49	23.78	23.84	19.62	24.60	24.60	20.50
20	PI/2 BPSK	25	12	23.85	23.97	23.66	24.60	24.60	24.60
20	PI/2 BPSK	1	0	19.88	23.56	23.20	20.50	24.60	24.00
20	PI/2 BPSK	1	50	23.27	23.33	19.68	24.00	24.00	20.50
20	PI/2 BPSK	50	0	19.80	23.48	19.68	20.50	24.00	20.50
20	QPSK	1	1	19.92	24.16	23.76	20.50	24.60	24.60
20	QPSK	1	49	23.82	23.90	19.57	24.60	24.60	20.50
20	QPSK	25	12	23.89	23.99	23.62	24.60	24.60	24.60
20	QPSK	1	0	19.94	23.07	22.67	20.50	24.00	23.50
20	QPSK	1	50	22.76	22.84	19.64	23.50	23.50	20.50
20	QPSK	50	0	19.83	22.99	19.64	20.50	23.50	20.50
20	16QAM	1	1	18.96	23.26	22.85	19.50	24.00	23.50
20	64QAM	1	1	18.91	21.33	21.14	19.50	22.00	22.00
20	256QAM	1	1	19.34	19.45	19.20	20.00	20.00	20.00
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	19.86	24.03	23.66	20.50	24.60	24.60
15	PI/2 BPSK	1	36	23.87	23.86	19.69	24.60	24.60	20.50
15	PI/2 BPSK	18	9	23.85	23.95	23.68	24.60	24.60	24.60
15	PI/2 BPSK	1	0	19.87	23.49	23.20	20.50	24.00	24.00
15	PI/2 BPSK	1	37	23.29	23.45	19.66	24.00	24.00	20.50
15	PI/2 BPSK	36	0	19.81	23.46	19.60	20.50	24.00	20.50
15	QPSK	1	1	19.72	23.98	23.73	20.50	24.60	24.60
15	QPSK	1	36	23.84	23.91	19.68	24.60	24.60	20.50
15	QPSK	18	9	23.81	23.99	23.66	24.60	24.60	24.60
15	QPSK	1	0	19.80	23.01	22.69	20.50	24.00	23.50
15	QPSK	1	37	22.84	22.87	19.69	23.50	23.50	20.50
15	QPSK	36	0	19.76	22.92	19.62	20.50	23.50	20.50
15	16QAM	1	1	18.94	22.94	22.71	19.50	23.50	23.50
15	64QAM	1	1	18.89	21.34	21.21	19.50	22.00	22.00
15	256QAM	1	1	19.29	19.46	19.18	20.00	20.00	20.00
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



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**Report No. :FA451606B**

10	PI/2 BPSK	1	1	23.91	24.04	23.72	24.60	24.60	24.60
10	PI/2 BPSK	1	22	23.87	23.94	23.82	24.60	24.60	24.60
10	PI/2 BPSK	12	6	23.86	24.02	23.67	24.60	24.60	24.60
10	PI/2 BPSK	1	0	23.45	23.50	23.22	24.00	24.60	24.00
10	PI/2 BPSK	1	23	23.39	23.46	23.29	24.00	24.00	24.00
10	PI/2 BPSK	24	0	23.44	23.47	23.18	24.00	24.00	24.00
10	QPSK	1	1	23.97	24.00	23.69	24.60	24.60	24.60
10	QPSK	1	22	23.96	23.95	23.75	24.60	24.60	24.60
10	QPSK	12	6	23.90	24.02	23.67	24.60	24.60	24.60
10	QPSK	1	0	22.89	22.98	22.65	23.50	23.50	23.50
10	QPSK	1	23	22.88	22.91	22.73	23.50	23.50	23.50
10	QPSK	24	0	22.88	22.97	22.67	23.50	23.50	23.50
10	16QAM	1	1	22.79	23.00	22.86	23.50	24.00	23.50
10	64QAM	1	1	21.46	21.49	21.26	22.00	22.00	22.00
10	256QAM	1	1	19.34	19.45	19.05	20.00	20.00	20.00



**FCC SAR TEST REPORT**

**Report No. :FA451606B**

<FR1 n48_Ant 6_Index 4/5/6>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
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	13.49	20.02	13.37	14.00	20.30	14.00
40	PI/2 BPSK	1	104	13.04	19.50	13.04	14.00	20.30	14.00
40	PI/2 BPSK	50	25	13.43	19.96	13.13	14.00	20.30	14.00
40	PI/2 BPSK	1	0	13.53	20.03	13.34	14.00	20.30	14.00
40	PI/2 BPSK	1	105	13.06	19.44	13.05	14.00	20.00	14.00
40	PI/2 BPSK	100	0	13.33	19.42	13.13	14.00	20.00	14.00
40	QPSK	1	1	13.51	19.99	13.43	14.00	20.30	14.00
40	QPSK	1	104	12.95	19.48	13.00	14.00	20.30	14.00
40	QPSK	50	25	13.34	19.91	13.13	14.00	20.30	14.00
40	QPSK	1	0	13.47	19.99	13.39	14.00	20.30	14.00
40	QPSK	1	105	13.09	19.45	13.04	14.00	20.00	14.00
40	QPSK	100	0	13.40	19.37	13.15	14.00	20.00	14.00
40	16QAM	1	1	12.93	19.95	12.85	14.00	20.30	14.00
40	64QAM	1	1	13.01	20.19	12.93	14.00	20.30	14.00
40	256QAM	1	1	12.77	19.70	12.80	13.50	20.30	13.50
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	19.87	20.18	19.87	20.30	20.30	20.30
20	PI/2 BPSK	1	49	19.95	19.90	19.62	20.30	20.30	20.30
20	PI/2 BPSK	25	12	20.05	20.03	19.79	20.30	20.30	20.30
20	PI/2 BPSK	1	0	19.88	19.91	19.86	20.30	20.30	20.30
20	PI/2 BPSK	1	50	19.71	19.76	19.68	20.30	20.30	20.30
20	PI/2 BPSK	50	0	19.80	19.95	19.68	20.30	20.30	20.30
20	QPSK	1	1	19.92	19.95	19.86	20.30	20.30	20.30
20	QPSK	1	49	19.61	19.66	19.57	20.30	20.30	20.30
20	QPSK	25	12	19.55	19.60	19.50	20.30	20.30	20.30
20	QPSK	1	0	19.94	19.95	19.90	20.30	20.30	20.30
20	QPSK	1	50	19.71	19.78	19.64	20.30	20.30	20.30
20	QPSK	50	0	19.83	19.88	19.64	20.30	20.30	20.30
20	16QAM	1	1	18.96	19.85	19.80	19.50	20.30	20.30
20	64QAM	1	1	18.91	19.81	19.75	19.50	20.30	20.30
20	256QAM	1	1	19.34	19.45	19.20	20.00	20.00	20.00
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	19.86	20.08	19.95	20.30	20.30	20.30
15	PI/2 BPSK	1	36	19.80	19.84	19.69	20.30	20.30	20.30
15	PI/2 BPSK	18	9	19.90	19.96	19.91	20.30	20.30	20.30
15	PI/2 BPSK	1	0	19.87	19.88	19.80	20.30	20.30	20.30
15	PI/2 BPSK	1	37	19.69	19.74	19.66	20.30	20.30	20.30
15	PI/2 BPSK	36	0	19.81	19.93	19.60	20.30	20.30	20.30
15	QPSK	1	1	19.72	19.85	19.68	20.30	20.30	20.30
15	QPSK	1	36	19.55	19.60	19.68	20.30	20.30	20.30
15	QPSK	18	9	19.44	19.54	19.48	20.30	20.30	20.30
15	QPSK	1	0	19.80	19.89	19.76	20.30	20.30	20.30
15	QPSK	1	37	19.70	19.76	19.69	20.30	20.30	20.30
15	QPSK	36	0	19.76	19.78	19.62	20.30	20.30	20.30
15	16QAM	1	1	18.94	19.78	19.76	19.50	20.30	20.30
15	64QAM	1	1	18.89	19.79	19.71	19.50	20.30	20.30
15	256QAM	1	1	19.29	19.46	19.18	20.00	20.00	20.00
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



**FCC SAR TEST REPORT**

**Report No. :FA451606B**

10	PI/2 BPSK	1	1	19.76	20.04	19.93	20.30	20.30	20.30
10	PI/2 BPSK	1	22	19.77	19.76	19.60	20.30	20.30	20.30
10	PI/2 BPSK	12	6	19.84	19.94	19.81	20.30	20.30	20.30
10	PI/2 BPSK	1	0	19.78	19.78	19.75	20.30	20.30	20.30
10	PI/2 BPSK	1	23	19.64	19.65	19.63	20.30	20.30	20.30
10	PI/2 BPSK	24	0	19.80	19.87	19.56	20.30	20.30	20.30
10	QPSK	1	1	19.62	19.76	19.66	20.30	20.30	20.30
10	QPSK	1	22	19.51	19.57	19.63	20.30	20.30	20.30
10	QPSK	12	6	19.38	19.52	19.43	20.30	20.30	20.30
10	QPSK	1	0	19.70	19.88	19.68	20.30	20.30	20.30
10	QPSK	1	23	19.61	19.66	19.63	20.30	20.30	20.30
10	QPSK	24	0	19.70	19.71	19.60	20.30	20.30	20.30
10	16QAM	1	1	19.68	19.73	19.72	20.30	20.30	20.30
10	64QAM	1	1	19.65	19.76	19.67	20.30	20.30	20.30
10	256QAM	1	1	19.34	19.45	19.05	20.00	20.00	20.00



<FR1 n66\_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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.68	24.69	24.57	25.7
40	PI/2 BPSK	1	108	24.67	24.67	24.55	
40	PI/2 BPSK	1	214	24.32	24.42	24.28	
40	PI/2 BPSK	108	0	24.15	24.18	24.01	25.2
40	PI/2 BPSK	108	54	24.59	24.66	24.53	25.7
40	PI/2 BPSK	108	108	24.04	24.06	23.96	25.2
40	PI/2 BPSK	216	0	24.06	24.11	23.99	
40	QPSK	1	1	24.60	24.64	24.54	25.7
40	QPSK	1	108	24.64	24.68	24.51	
40	QPSK	1	214	24.40	24.42	24.23	
40	QPSK	108	0	23.63	23.67	23.57	24.7
40	QPSK	108	54	24.59	24.65	24.45	25.7
40	QPSK	108	108	23.53	23.55	23.38	24.7
40	QPSK	216	0	23.52	23.59	23.44	
40	16QAM	1	1	23.63	23.68	23.53	24.7
40	64QAM	1	1	21.99	22.07	21.94	23.2
40	256QAM	1	1	20.03	20.05	19.90	21.2
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.66	24.68	24.47	25.7
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.58	24.59	24.48	25.7
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.60	24.67	24.57	25.7
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.58	24.60	24.55	25.7
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.68	24.60	24.53	25.7
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.61	24.65	24.48	25.7



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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	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.68	24.69	24.57	25.7
40	PI/2 BPSK	1	108	24.67	24.67	24.55	
40	PI/2 BPSK	1	214	24.32	24.42	24.28	
40	PI/2 BPSK	108	0	24.15	24.18	24.01	25.2
40	PI/2 BPSK	108	54	24.59	24.66	24.53	25.7
40	PI/2 BPSK	108	108	24.04	24.06	23.96	25.2
40	PI/2 BPSK	216	0	24.06	24.11	23.99	
40	QPSK	1	1	24.60	24.64	24.54	25.7
40	QPSK	1	108	24.64	24.68	24.51	
40	QPSK	1	214	24.40	24.42	24.23	
40	QPSK	108	0	23.63	23.67	23.57	24.7
40	QPSK	108	54	24.59	24.65	24.45	25.7
40	QPSK	108	108	23.53	23.55	23.38	24.7
40	QPSK	216	0	23.52	23.59	23.44	
40	16QAM	1	1	23.63	23.68	23.53	24.7
40	64QAM	1	1	21.99	22.07	21.94	23.2
40	256QAM	1	1	20.03	20.05	19.90	21.2
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.66	24.68	24.47	25.7
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.58	24.59	24.48	25.7
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.60	24.67	24.57	25.7
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.58	24.60	24.55	25.7
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.68	24.60	24.53	25.7
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.61	24.65	24.48	25.7



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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	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.32	21.46	21.24	22.7
40	PI/2 BPSK	1	108	21.31	21.42	21.28	
40	PI/2 BPSK	1	214	21.15	21.20	21.02	
40	PI/2 BPSK	108	0	21.27	21.36	21.25	22.7
40	PI/2 BPSK	108	54	21.30	21.41	21.23	22.7
40	PI/2 BPSK	108	108	21.20	21.29	21.12	22.7
40	PI/2 BPSK	216	0	21.24	21.30	21.20	
40	QPSK	1	1	21.35	21.40	21.23	22.7
40	QPSK	1	108	21.30	21.40	21.28	
40	QPSK	1	214	21.10	21.16	21.01	
40	QPSK	108	0	21.34	21.39	21.29	22.7
40	QPSK	108	54	21.31	21.38	21.23	22.7
40	QPSK	108	108	21.20	21.30	21.15	22.7
40	QPSK	216	0	21.23	21.34	21.23	
40	16QAM	1	1	21.03	21.10	20.98	22.7
40	64QAM	1	1	21.29	21.37	21.19	22.7
40	256QAM	1	1	19.66	19.77	19.59	21.2
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.22	21.35	21.16	22.7
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.21	21.41	21.17	22.7
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.24	21.35	21.18	22.7
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.21	21.38	21.13	22.7
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.25	21.41	21.14	22.7
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.21	21.38	21.16	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	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.32	21.46	21.24	22.7
40	PI/2 BPSK	1	108	21.31	21.42	21.28	
40	PI/2 BPSK	1	214	21.15	21.20	21.02	
40	PI/2 BPSK	108	0	21.27	21.36	21.25	22.7
40	PI/2 BPSK	108	54	21.30	21.41	21.23	22.7
40	PI/2 BPSK	108	108	21.20	21.29	21.12	22.7
40	PI/2 BPSK	216	0	21.24	21.30	21.20	
40	QPSK	1	1	21.35	21.40	21.23	22.7
40	QPSK	1	108	21.30	21.40	21.28	
40	QPSK	1	214	21.10	21.16	21.01	
40	QPSK	108	0	21.34	21.39	21.29	22.7
40	QPSK	108	54	21.31	21.38	21.23	22.7
40	QPSK	108	108	21.20	21.30	21.15	22.7
40	QPSK	216	0	21.23	21.34	21.23	
40	16QAM	1	1	21.03	21.10	20.98	22.7
40	64QAM	1	1	21.29	21.37	21.19	22.7
40	256QAM	1	1	19.66	19.77	19.59	21.2
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.22	21.35	21.16	22.7
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.21	21.41	21.17	22.7
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.24	21.35	21.18	22.7
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.21	21.38	21.13	22.7
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.25	21.41	21.14	22.7
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.21	21.38	21.16	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	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.32	21.46	21.24	22.7
40	PI/2 BPSK	1	108	21.31	21.42	21.28	
40	PI/2 BPSK	1	214	21.15	21.20	21.02	
40	PI/2 BPSK	108	0	21.27	21.36	21.25	22.7
40	PI/2 BPSK	108	54	21.30	21.41	21.23	22.7
40	PI/2 BPSK	108	108	21.20	21.29	21.12	22.7
40	PI/2 BPSK	216	0	21.24	21.30	21.20	
40	QPSK	1	1	21.35	21.40	21.23	22.7
40	QPSK	1	108	21.30	21.40	21.28	
40	QPSK	1	214	21.10	21.16	21.01	
40	QPSK	108	0	21.34	21.39	21.29	22.7
40	QPSK	108	54	21.31	21.38	21.23	22.7
40	QPSK	108	108	21.20	21.30	21.15	22.7
40	QPSK	216	0	21.23	21.34	21.23	
40	16QAM	1	1	21.03	21.10	20.98	22.7
40	64QAM	1	1	21.29	21.37	21.19	22.7
40	256QAM	1	1	19.66	19.77	19.59	21.2
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.22	21.35	21.16	22.7
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.21	21.41	21.17	22.7
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.24	21.35	21.18	22.7
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.21	21.38	21.13	22.7
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.25	21.41	21.14	22.7
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.21	21.38	21.16	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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		24.74		25.7
15	PI/2 BPSK	1	40		24.67		
15	PI/2 BPSK	1	77		24.56		
15	PI/2 BPSK	36	0		24.26		25.2
15	PI/2 BPSK	36	22		24.72		25.7
15	PI/2 BPSK	36	43		24.21		25.2
15	PI/2 BPSK	75	0		24.31		
15	QPSK	1	1		24.72		25.7
15	QPSK	1	40		24.68		
15	QPSK	1	77		24.61		
15	QPSK	36	0		23.75		24.7
15	QPSK	36	22		24.71		25.7
15	QPSK	36	43		23.75		24.7
15	QPSK	75	0		23.79		
15	16QAM	1	1		23.89		24.7
15	64QAM	1	1		22.25		23.2
15	256QAM	1	1		20.49		21.2
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	24.65	24.71	24.67	25.7
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	24.68	24.70	24.64	25.7



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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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		24.74		25.6
15	PI/2 BPSK	1	40		24.67		
15	PI/2 BPSK	1	77		24.56		
15	PI/2 BPSK	36	0		24.26		25.2
15	PI/2 BPSK	36	22		24.72		25.6
15	PI/2 BPSK	36	43		24.21		25.2
15	PI/2 BPSK	75	0		24.31		
15	QPSK	1	1		24.72		25.6
15	QPSK	1	40		24.68		
15	QPSK	1	77		24.61		
15	QPSK	36	0		23.75		24.7
15	QPSK	36	22		24.71		25.6
15	QPSK	36	43		23.75		24.7
15	QPSK	75	0		23.79		
15	16QAM	1	1		23.89		24.7
15	64QAM	1	1		22.25		23.2
15	256QAM	1	1		20.49		21.2
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	24.65	24.71	24.67	25.6
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	24.68	24.70	24.64	25.6

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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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		21.54		23.1
15	PI/2 BPSK	1	40		21.44		
15	PI/2 BPSK	1	77		21.40		
15	PI/2 BPSK	36	0		21.47		23.1
15	PI/2 BPSK	36	22		21.53		23.1
15	PI/2 BPSK	36	43		21.47		23.1
15	PI/2 BPSK	75	0		21.50		
15	QPSK	1	1		21.50		23.1
15	QPSK	1	40		21.41		
15	QPSK	1	77		21.39		
15	QPSK	36	0		21.51		23.1
15	QPSK	36	22		21.53		23.1
15	QPSK	36	43		21.46		23.1
15	QPSK	75	0		21.53		
15	16QAM	1	1		21.30		23.1
15	64QAM	1	1		21.46		23.1
15	256QAM	1	1		20.36		21.2
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	21.44	21.52	21.48	23.1
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	21.46	21.50	21.45	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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		21.54		23.1
15	PI/2 BPSK	1	40		21.44		
15	PI/2 BPSK	1	77		21.40		
15	PI/2 BPSK	36	0		21.47		23.1
15	PI/2 BPSK	36	22		21.53		23.1
15	PI/2 BPSK	36	43		21.47		23.1
15	PI/2 BPSK	75	0		21.50		
15	QPSK	1	1		21.50		23.1
15	QPSK	1	40		21.41		
15	QPSK	1	77		21.39		
15	QPSK	36	0		21.51		23.1
15	QPSK	36	22		21.53		23.1
15	QPSK	36	43		21.46		23.1
15	QPSK	75	0		21.53		
15	16QAM	1	1		21.30		23.1
15	64QAM	1	1		21.46		23.1
15	256QAM	1	1		20.36		21.2
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	21.44	21.52	21.48	23.1
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	21.46	21.50	21.45	23.1

<FR1 n70\_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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		21.54		23.1
15	PI/2 BPSK	1	40		21.44		
15	PI/2 BPSK	1	77		21.40		
15	PI/2 BPSK	36	0		21.47		23.1
15	PI/2 BPSK	36	22		21.53		23.1
15	PI/2 BPSK	36	43		21.47		23.1
15	PI/2 BPSK	75	0		21.50		
15	QPSK	1	1		21.50		23.1
15	QPSK	1	40		21.41		
15	QPSK	1	77		21.39		
15	QPSK	36	0		21.51		23.1
15	QPSK	36	22		21.53		23.1
15	QPSK	36	43		21.46		23.1
15	QPSK	75	0		21.53		
15	16QAM	1	1		21.30		23.1
15	64QAM	1	1		21.46		23.1
15	256QAM	1	1		20.36		21.2
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	21.44	21.52	21.48	23.1
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	21.46	21.50	21.45	23.1



<FR1 n71\_Ant 0\_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.73	24.78	24.75	25.7
20	PI/2 BPSK	1	53	24.77	24.77	24.67	
20	PI/2 BPSK	1	104	24.70	24.72	24.66	
20	PI/2 BPSK	50	0	24.25	24.28	24.27	25.2
20	PI/2 BPSK	50	28	24.69	24.73	24.70	25.7
20	PI/2 BPSK	50	56	24.23	24.23	24.20	25.2
20	PI/2 BPSK	100	0	24.13	24.22	24.13	
20	QPSK	1	1	24.68	24.70	24.69	25.7
20	QPSK	1	53	24.63	24.69	24.65	
20	QPSK	1	104	24.69	24.72	24.66	
20	QPSK	50	0	23.74	23.78	23.72	24.7
20	QPSK	50	28	24.66	24.72	24.71	25.7
20	QPSK	50	56	23.71	23.73	23.64	24.7
20	QPSK	100	0	23.73	23.75	23.74	
20	16QAM	1	1	23.78	23.81	23.75	24.7
20	64QAM	1	1	22.30	22.35	22.32	23.2
20	256QAM	1	1	20.31	20.32	20.22	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.64	24.76	24.71	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.73	24.73	24.73	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.69	24.73	24.67	25.7



<FR1 n71\_Ant 0\_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.73	24.78	24.75	25.7
20	PI/2 BPSK	1	53	24.77	24.77	24.67	
20	PI/2 BPSK	1	104	24.70	24.72	24.66	
20	PI/2 BPSK	50	0	24.25	24.28	24.27	25.2
20	PI/2 BPSK	50	28	24.69	24.73	24.70	25.7
20	PI/2 BPSK	50	56	24.23	24.23	24.20	25.2
20	PI/2 BPSK	100	0	24.13	24.22	24.13	
20	QPSK	1	1	24.68	24.70	24.69	25.7
20	QPSK	1	53	24.63	24.69	24.65	
20	QPSK	1	104	24.69	24.72	24.66	
20	QPSK	50	0	23.74	23.78	23.72	24.7
20	QPSK	50	28	24.66	24.72	24.71	25.7
20	QPSK	50	56	23.71	23.73	23.64	24.7
20	QPSK	100	0	23.73	23.75	23.74	
20	16QAM	1	1	23.78	23.81	23.75	24.7
20	64QAM	1	1	22.30	22.35	22.32	23.2
20	256QAM	1	1	20.31	20.32	20.22	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.64	24.76	24.71	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.73	24.73	24.73	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.69	24.73	24.67	25.7



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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				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.73	24.78	24.75	25.7
20	PI/2 BPSK	1	53	24.77	24.77	24.67	
20	PI/2 BPSK	1	104	24.70	24.72	24.66	
20	PI/2 BPSK	50	0	24.25	24.28	24.27	25.2
20	PI/2 BPSK	50	28	24.69	24.73	24.70	25.7
20	PI/2 BPSK	50	56	24.23	24.23	24.20	25.2
20	PI/2 BPSK	100	0	24.13	24.22	24.13	
20	QPSK	1	1	24.68	24.70	24.69	25.7
20	QPSK	1	53	24.63	24.69	24.65	
20	QPSK	1	104	24.69	24.72	24.66	
20	QPSK	50	0	23.74	23.78	23.72	24.7
20	QPSK	50	28	24.66	24.72	24.71	25.7
20	QPSK	50	56	23.71	23.73	23.64	24.7
20	QPSK	100	0	23.73	23.75	23.74	
20	16QAM	1	1	23.78	23.81	23.75	24.7
20	64QAM	1	1	22.30	22.35	22.32	23.2
20	256QAM	1	1	20.31	20.32	20.22	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.64	24.76	24.71	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.73	24.73	24.73	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.69	24.73	24.67	25.7



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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				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.73	24.78	24.75	25.7
20	PI/2 BPSK	1	53	24.77	24.77	24.67	
20	PI/2 BPSK	1	104	24.70	24.72	24.66	
20	PI/2 BPSK	50	0	24.25	24.28	24.27	25.2
20	PI/2 BPSK	50	28	24.69	24.73	24.70	25.7
20	PI/2 BPSK	50	56	24.23	24.23	24.20	25.2
20	PI/2 BPSK	100	0	24.13	24.22	24.13	
20	QPSK	1	1	24.68	24.70	24.69	25.7
20	QPSK	1	53	24.63	24.69	24.65	
20	QPSK	1	104	24.69	24.72	24.66	
20	QPSK	50	0	23.74	23.78	23.72	24.7
20	QPSK	50	28	24.66	24.72	24.71	25.7
20	QPSK	50	56	23.71	23.73	23.64	24.7
20	QPSK	100	0	23.73	23.75	23.74	
20	16QAM	1	1	23.78	23.81	23.75	24.7
20	64QAM	1	1	22.30	22.35	22.32	23.2
20	256QAM	1	1	20.31	20.32	20.22	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.64	24.76	24.71	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.73	24.73	24.73	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.69	24.73	24.67	25.7





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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				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.73	24.78	24.75	25.7
20	PI/2 BPSK	1	53	24.77	24.77	24.67	
20	PI/2 BPSK	1	104	24.70	24.72	24.66	
20	PI/2 BPSK	50	0	24.25	24.28	24.27	25.2
20	PI/2 BPSK	50	28	24.69	24.73	24.70	25.7
20	PI/2 BPSK	50	56	24.23	24.23	24.20	25.2
20	PI/2 BPSK	100	0	24.13	24.22	24.13	
20	QPSK	1	1	24.68	24.70	24.69	25.7
20	QPSK	1	53	24.63	24.69	24.65	
20	QPSK	1	104	24.69	24.72	24.66	
20	QPSK	50	0	23.74	23.78	23.72	24.7
20	QPSK	50	28	24.66	24.72	24.71	25.7
20	QPSK	50	56	23.71	23.73	23.64	24.7
20	QPSK	100	0	23.73	23.75	23.74	
20	16QAM	1	1	23.78	23.81	23.75	24.7
20	64QAM	1	1	22.30	22.35	22.32	23.2
20	256QAM	1	1	20.31	20.32	20.22	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.64	24.76	24.71	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.73	24.73	24.73	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.69	24.73	24.67	25.7



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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	24.21	24.24	24.19	25.7
100	PI/2 BPSK	1	137	24.13	24.22	24.18	
100	PI/2 BPSK	1	271	24.20	24.20	24.17	
100	PI/2 BPSK	135	0	24.16	24.21	24.20	25.2
100	PI/2 BPSK	135	69	24.50	24.58	24.57	25.7
100	PI/2 BPSK	135	138	23.90	23.99	23.92	25.2
100	PI/2 BPSK	270	0	24.08	24.18	24.15	
100	QPSK	1	1	23.88	23.96	23.93	25.7
100	QPSK	1	137	24.17	24.23	24.23	
100	QPSK	1	271	24.13	24.16	24.14	
100	QPSK	135	0	23.69	23.69	23.62	24.7
100	QPSK	135	69	24.48	24.57	24.47	25.7
100	QPSK	135	138	23.42	23.50	23.50	24.7
100	QPSK	270	0	23.65	23.67	23.64	
100	16QAM	1	1	22.95	22.98	22.92	24.7
100	64QAM	1	1	21.47	21.50	21.46	23.2
100	256QAM	1	1	19.46	19.53	19.47	21.2
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.21	24.21	24.14	25.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.13	24.14	24.12	25.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.11	24.18	24.09	25.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.13	24.14	24.13	25.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.12	24.24	24.10	25.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.12	24.18	24.16	25.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.21	24.20	24.10	25.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.17	24.20	24.19	25.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.15	24.22	24.16	25.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.13	24.16	24.17	25.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.16	24.16	24.17	25.7



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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	14.08	14.18	14.07	15.5
100	PI/2 BPSK	1	137	13.66	13.61	13.51	
100	PI/2 BPSK	1	271	13.81	13.93	13.78	
100	PI/2 BPSK	135	0	13.75	13.85	13.71	15.5
100	PI/2 BPSK	135	69	13.75	13.86	13.71	15.5
100	PI/2 BPSK	135	138	13.70	13.85	13.70	15.5
100	PI/2 BPSK	270	0	14.04	14.15	14.00	
100	QPSK	1	1	13.99	14.13	13.99	15.5
100	QPSK	1	137	13.63	13.52	13.62	
100	QPSK	1	271	13.76	13.86	13.71	
100	QPSK	135	0	13.67	13.78	13.66	15.5
100	QPSK	135	69	13.67	13.79	13.65	15.5
100	QPSK	135	138	13.66	13.76	13.66	15.5
100	QPSK	270	0	13.93	14.07	13.92	
100	16QAM	1	1	13.96	14.11	13.96	15.5
100	64QAM	1	1	14.02	14.12	13.99	15.5
100	256QAM	1	1	14.03	14.15	14.00	15.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	14.03	14.10	13.99	15.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	14.00	14.09	14.00	15.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	14.01	14.11	14.01	15.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	14.01	14.10	14.02	15.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	14.03	14.08	14.01	15.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	13.99	14.13	14.02	15.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	14.02	14.10	14.01	15.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	13.98	14.12	14.00	15.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	13.99	14.10	13.97	15.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	14.00	14.12	14.00	15.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.02	14.11	14.12	15.5



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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	23.30	23.29	23.55	24.3
100	PI/2 BPSK	1	137	23.22	23.21	23.47	
100	PI/2 BPSK	1	271	23.12	23.11	23.37	
100	PI/2 BPSK	135	0	23.22	23.21	23.47	24.3
100	PI/2 BPSK	135	69	23.17	23.16	23.42	24.3
100	PI/2 BPSK	135	138	23.23	23.22	23.48	24.3
100	PI/2 BPSK	270	0	23.27	23.26	23.52	
100	QPSK	1	1	23.20	23.19	23.45	24.3
100	QPSK	1	137	23.25	23.24	23.50	
100	QPSK	1	271	23.12	23.11	23.37	
100	QPSK	135	0	23.09	23.08	23.34	24.2
100	QPSK	135	69	23.27	23.26	23.52	24.3
100	QPSK	135	138	23.01	23.00	23.26	24.2
100	QPSK	270	0	23.28	23.27	23.53	
100	16QAM	1	1	22.84	22.84	23.09	24.2
100	64QAM	1	1	21.32	21.31	21.55	22.7
100	256QAM	1	1	19.40	19.39	19.61	20.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.13	23.30	23.13	24.3
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.23	23.23	23.12	24.3
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.23	23.18	23.18	24.3
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.16	23.23	23.27	24.3
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.28	23.12	23.26	24.3
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.22	23.11	23.15	24.3
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.22	23.14	23.27	24.3
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.10	23.28	23.11	24.3
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.11	23.28	23.29	24.3
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.14	23.22	23.27	24.3
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.27	23.11	23.15	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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	12.25	12.35	11.98	13.6
100	PI/2 BPSK	1	137	12.24	12.34	11.97	
100	PI/2 BPSK	1	271	12.77	12.87	12.48	
100	PI/2 BPSK	135	0	12.64	12.74	12.36	13.6
100	PI/2 BPSK	135	69	12.66	12.76	12.38	13.6
100	PI/2 BPSK	135	138	12.68	12.78	12.40	13.6
100	PI/2 BPSK	270	0	12.57	12.67	12.29	
100	QPSK	1	1	12.23	12.33	11.96	13.6
100	QPSK	1	137	12.23	12.33	11.96	
100	QPSK	1	271	12.76	12.86	12.47	
100	QPSK	135	0	12.71	12.81	12.43	13.6
100	QPSK	135	69	12.67	12.77	12.39	13.6
100	QPSK	135	138	12.66	12.76	12.38	13.6
100	QPSK	270	0	12.55	12.65	12.27	
100	16QAM	1	1	12.24	12.34	11.97	13.6
100	64QAM	1	1	12.17	12.27	11.90	13.6
100	256QAM	1	1	12.20	12.30	11.93	13.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	12.21	12.20	11.94	13.6
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	12.11	12.22	11.93	13.6
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	12.08	12.20	11.89	13.6
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	12.24	12.24	11.87	13.6
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	12.12	12.29	11.96	13.6
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	12.13	12.25	11.92	13.6
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	12.16	12.31	11.85	13.6
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	12.11	12.26	11.82	13.6
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	12.23	12.21	11.93	13.6
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	12.21	12.32	11.83	13.6
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	12.11	12.26	11.96	13.6



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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	19.33	19.43	19.30	20.8
100	PI/2 BPSK	1	137	19.29	19.42	19.32	
100	PI/2 BPSK	1	271	19.27	19.40	19.36	
100	PI/2 BPSK	135	0	19.77	19.89	19.75	20.8
100	PI/2 BPSK	135	69	19.85	19.90	19.77	20.8
100	PI/2 BPSK	135	138	19.74	19.81	19.76	20.8
100	PI/2 BPSK	270	0	19.87	20.01	19.94	
100	QPSK	1	1	19.27	19.36	19.29	20.8
100	QPSK	1	137	19.22	19.33	19.29	
100	QPSK	1	271	19.20	19.28	19.23	
100	QPSK	135	0	19.66	19.80	19.68	20.8
100	QPSK	135	69	19.67	19.78	19.74	20.8
100	QPSK	135	138	19.69	19.75	19.68	20.8
100	QPSK	270	0	19.83	19.92	19.83	
100	16QAM	1	1	19.94	19.99	19.95	20.8
100	64QAM	1	1	19.86	19.90	19.79	20.8
100	256QAM	1	1	19.77	19.90	19.85	20.8
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.26	19.35	19.16	20.8
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.26	19.35	19.18	20.8
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.22	19.31	19.23	20.8
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.22	19.33	19.16	20.8
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.27	19.30	19.21	20.8
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.21	19.35	19.20	20.8
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.26	19.33	19.26	20.8
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.27	19.35	19.21	20.8
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.19	19.36	19.17	20.8
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.25	19.32	19.16	20.8
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.27	19.37	19.20	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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.93	18.98	18.64	19.6
100	PI/2 BPSK	1	137	18.16	18.21	17.88	
100	PI/2 BPSK	1	271	18.71	18.76	18.42	
100	PI/2 BPSK	135	0	18.75	18.80	18.46	19.6
100	PI/2 BPSK	135	69	18.77	18.82	18.48	19.6
100	PI/2 BPSK	135	138	18.63	18.68	18.35	19.6
100	PI/2 BPSK	270	0	18.89	18.94	18.60	
100	QPSK	1	1	18.91	18.96	18.62	19.6
100	QPSK	1	137	18.14	18.19	17.86	
100	QPSK	1	271	18.68	18.73	18.39	
100	QPSK	135	0	18.72	18.77	18.43	19.6
100	QPSK	135	69	18.75	18.80	18.46	19.6
100	QPSK	135	138	18.60	18.65	18.32	19.6
100	QPSK	270	0	18.85	18.90	18.56	
100	16QAM	1	1	18.89	18.94	18.60	19.6
100	64QAM	1	1	18.84	18.89	18.55	19.6
100	256QAM	1	1	18.86	18.91	18.57	19.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.86	18.92	18.56	19.6
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.90	18.94	18.62	19.6
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.91	18.90	18.58	19.6
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.88	18.90	18.58	19.6
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.85	18.95	18.60	19.6
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.89	18.96	18.58	19.6
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.87	18.93	18.61	19.6
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.91	18.94	18.56	19.6
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.85	18.95	18.58	19.6
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.89	18.91	18.57	19.6
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.89	18.94	18.56	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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.33	19.43	19.30	20.8
100	PI/2 BPSK	1	137	19.29	19.42	19.32	
100	PI/2 BPSK	1	271	19.27	19.40	19.36	
100	PI/2 BPSK	135	0	19.77	19.89	19.75	20.8
100	PI/2 BPSK	135	69	19.85	19.90	19.77	20.8
100	PI/2 BPSK	135	138	19.74	19.81	19.76	20.8
100	PI/2 BPSK	270	0	19.87	20.01	19.94	
100	QPSK	1	1	19.27	19.36	19.29	20.8
100	QPSK	1	137	19.22	19.33	19.29	
100	QPSK	1	271	19.20	19.28	19.23	
100	QPSK	135	0	19.66	19.80	19.68	20.8
100	QPSK	135	69	19.67	19.78	19.74	20.8
100	QPSK	135	138	19.69	19.75	19.68	20.8
100	QPSK	270	0	19.83	19.92	19.83	
100	16QAM	1	1	19.94	19.99	19.95	20.8
100	64QAM	1	1	19.86	19.90	19.79	20.8
100	256QAM	1	1	19.77	19.90	19.85	20.8
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.26	19.35	19.16	20.8
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.26	19.35	19.18	20.8
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.22	19.31	19.23	20.8
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.22	19.33	19.16	20.8
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.27	19.30	19.21	20.8
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.21	19.35	19.20	20.8
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.26	19.33	19.26	20.8
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.27	19.35	19.21	20.8
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.19	19.36	19.17	20.8
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.25	19.32	19.16	20.8
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.27	19.37	19.20	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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.06	20.12	20.07	21.6
100	PI/2 BPSK	1	137	19.61	19.62	19.62	
100	PI/2 BPSK	1	271	19.83	19.86	19.82	
100	PI/2 BPSK	135	0	19.68	19.71	19.70	21.6
100	PI/2 BPSK	135	69	19.70	19.81	19.68	21.6
100	PI/2 BPSK	135	138	19.66	19.74	19.74	21.6
100	PI/2 BPSK	270	0	19.97	20.10	20.02	
100	QPSK	1	1	19.93	19.95	19.96	21.6
100	QPSK	1	137	19.67	19.68	19.62	
100	QPSK	1	271	19.78	19.81	19.78	
100	QPSK	135	0	19.67	19.75	19.70	21.6
100	QPSK	135	69	19.89	19.66	19.85	21.6
100	QPSK	135	138	19.65	19.70	19.71	21.6
100	QPSK	270	0	19.93	20.00	19.98	
100	16QAM	1	1	20.05	20.08	20.01	21.6
100	64QAM	1	1	19.90	20.05	19.97	21.6
100	256QAM	1	1	19.97	20.05	19.94	21.2
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.94	19.99	19.95	21.6
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.02	20.00	20.04	21.6
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.01	19.99	20.02	21.6
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.96	20.00	20.00	21.6
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.98	19.99	19.98	21.6
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.01	20.07	20.00	21.6
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.95	20.02	20.03	21.6
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.03	20.02	19.93	21.6
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.96	20.06	20.01	21.6
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.97	20.09	19.95	21.6
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.92	19.98	19.97	21.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.8
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.33	19.43	19.30	20.8
100	PI/2 BPSK	1	137	19.29	19.42	19.32	
100	PI/2 BPSK	1	271	19.27	19.40	19.36	20.8
100	PI/2 BPSK	135	0	19.77	19.89	19.75	
100	PI/2 BPSK	135	69	19.85	19.90	19.77	20.8
100	PI/2 BPSK	135	138	19.74	19.81	19.76	
100	PI/2 BPSK	270	0	19.87	20.01	19.94	20.8
100	QPSK	1	1	19.27	19.36	19.29	
100	QPSK	1	137	19.22	19.33	19.29	20.8
100	QPSK	1	271	19.20	19.28	19.23	
100	QPSK	135	0	19.66	19.80	19.68	20.8
100	QPSK	135	69	19.67	19.78	19.74	
100	QPSK	135	138	19.69	19.75	19.68	20.8
100	QPSK	270	0	19.83	19.92	19.83	
100	16QAM	1	1	19.94	19.99	19.95	20.8
100	64QAM	1	1	19.86	19.90	19.79	
100	256QAM	1	1	19.77	19.90	19.85	20.8
Channel				649668	656000	662332	20.8
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.26	19.35	19.16	20.8
Channel				649334	656000	662666	
Frequency (MHz)				3740.01	3840	3939.99	20.8
80	PI/2 BPSK	1	1	19.26	19.35	19.18	
Channel				649000	656000	663000	20.8
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.22	19.31	19.23	20.8
Channel				648668	656000	663332	
Frequency (MHz)				3730.02	3840	3949.98	20.8
60	PI/2 BPSK	1	1	19.22	19.33	19.16	
Channel				648334	656000	663666	20.8
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.27	19.30	19.21	20.8
Channel				648000	656000	664000	
Frequency (MHz)				3720	3840	3960	20.8
40	PI/2 BPSK	1	1	19.21	19.35	19.20	
Channel				647668	656000	664332	20.8
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.26	19.33	19.26	20.8
Channel				647500	656000	664500	
Frequency (MHz)				3712.5	3840.00	3967.50	20.8
25	PI/2 BPSK	1	1	19.27	19.35	19.21	
Channel				647334	656000	664666	20.8
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.19	19.36	19.17	20.8
Channel				647168	656000	664832	
Frequency (MHz)				3707.52	3840	3972.48	20.8
15	PI/2 BPSK	1	1	19.25	19.32	19.16	
Channel				647000	656000	665000	20.8
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.27	19.37	19.20	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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.93	18.98	18.64	19.6
100	PI/2 BPSK	1	137	18.16	18.21	17.88	
100	PI/2 BPSK	1	271	18.71	18.76	18.42	
100	PI/2 BPSK	135	0	18.75	18.80	18.46	19.6
100	PI/2 BPSK	135	69	18.77	18.82	18.48	19.6
100	PI/2 BPSK	135	138	18.63	18.68	18.35	19.6
100	PI/2 BPSK	270	0	18.89	18.94	18.60	
100	QPSK	1	1	18.91	18.96	18.62	19.6
100	QPSK	1	137	18.14	18.19	17.86	
100	QPSK	1	271	18.68	18.73	18.39	
100	QPSK	135	0	18.72	18.77	18.43	19.6
100	QPSK	135	69	18.75	18.80	18.46	19.6
100	QPSK	135	138	18.60	18.65	18.32	19.6
100	QPSK	270	0	18.85	18.90	18.56	
100	16QAM	1	1	18.89	18.94	18.60	19.6
100	64QAM	1	1	18.84	18.89	18.55	19.6
100	256QAM	1	1	18.86	18.91	18.57	19.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.86	18.92	18.56	19.6
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.90	18.94	18.62	19.6
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.91	18.90	18.58	19.6
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.88	18.90	18.58	19.6
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.85	18.95	18.60	19.6
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.89	18.96	18.58	19.6
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.87	18.93	18.61	19.6
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.91	18.94	18.56	19.6
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.85	18.95	18.58	19.6
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.89	18.91	18.57	19.6
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.89	18.94	18.56	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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.37	25.44	25.39	27.3
100	PI/2 BPSK	1	137	25.33	25.40	25.35	
100	PI/2 BPSK	1	271	25.35	25.42	25.35	
100	PI/2 BPSK	135	0	25.59	25.69	25.63	26.8
100	PI/2 BPSK	135	69	25.98	26.10	26.01	27.3
100	PI/2 BPSK	135	138	25.39	25.48	25.36	26.8
100	PI/2 BPSK	270	0	25.55	25.69	25.62	
100	QPSK	1	1	25.32	25.43	25.32	27.3
100	QPSK	1	137	25.35	25.42	25.37	
100	QPSK	1	271	25.31	25.40	25.32	
100	QPSK	135	0	25.11	25.21	25.09	26.3
100	QPSK	135	69	26.00	26.08	26.03	27.3
100	QPSK	135	138	24.88	24.96	24.85	26.3
100	QPSK	270	0	25.12	25.20	25.09	
100	16QAM	1	1	24.37	24.48	24.34	26.3
100	64QAM	1	1	22.82	22.92	22.82	24.8
100	256QAM	1	1	20.84	20.99	20.90	22.8
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.31	25.35	25.36	27.3
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.31	25.36	25.32	27.3
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.31	25.36	25.30	27.3
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.33	25.41	25.31	27.3
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.32	25.43	25.30	27.3
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.32	25.43	25.31	27.3
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.30	25.40	25.34	27.3
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.30	25.36	25.38	27.3
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.30	25.40	25.34	27.3
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.30	25.42	25.35	27.3
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.32	25.39	25.33	27.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	16.98	17.09	17.01	18.6
100	PI/2 BPSK	1	137	16.65	16.71	16.61	
100	PI/2 BPSK	1	271	16.79	16.89	16.81	
100	PI/2 BPSK	135	0	16.72	16.77	16.67	18.6
100	PI/2 BPSK	135	69	16.73	16.79	16.72	18.6
100	PI/2 BPSK	135	138	16.66	16.75	16.70	18.6
100	PI/2 BPSK	270	0	17.01	17.08	17.01	
100	QPSK	1	1	16.96	17.03	16.94	18.6
100	QPSK	1	137	16.53	16.63	16.58	
100	QPSK	1	271	16.71	16.81	16.73	
100	QPSK	135	0	16.61	16.69	16.59	18.6
100	QPSK	135	69	16.65	16.72	16.62	18.6
100	QPSK	135	138	16.63	16.69	16.59	18.6
100	QPSK	270	0	16.89	16.99	16.90	
100	16QAM	1	1	16.95	17.02	16.97	18.6
100	64QAM	1	1	16.98	17.03	16.93	18.6
100	256QAM	1	1	16.98	17.06	16.96	18.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	16.97	17.08	16.92	18.6
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.00	16.89	16.96	18.6
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	16.98	17.03	16.99	18.6
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	16.89	16.94	16.88	18.6
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	16.83	16.94	17.07	18.6
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	16.88	16.96	17.02	18.6
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	16.90	16.91	16.93	18.6
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	17.00	17.07	16.97	18.6
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.00	16.99	16.90	18.6
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	16.92	17.03	16.90	18.6
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	16.95	16.88	16.97	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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.37	25.44	25.39	27.3
100	PI/2 BPSK	1	137	25.33	25.40	25.35	
100	PI/2 BPSK	1	271	25.35	25.42	25.35	
100	PI/2 BPSK	135	0	25.59	25.69	25.63	26.8
100	PI/2 BPSK	135	69	25.98	26.10	26.01	27.3
100	PI/2 BPSK	135	138	25.39	25.48	25.36	26.8
100	PI/2 BPSK	270	0	25.55	25.69	25.62	
100	QPSK	1	1	25.32	25.43	25.32	27.3
100	QPSK	1	137	25.35	25.42	25.37	
100	QPSK	1	271	25.31	25.40	25.32	
100	QPSK	135	0	25.11	25.21	25.09	26.3
100	QPSK	135	69	26.00	26.08	26.03	27.3
100	QPSK	135	138	24.88	24.96	24.85	26.3
100	QPSK	270	0	25.12	25.20	25.09	
100	16QAM	1	1	24.37	24.48	24.34	26.3
100	64QAM	1	1	22.82	22.92	22.82	24.8
100	256QAM	1	1	20.84	20.99	20.90	22.8
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.31	25.35	25.36	27.3
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.31	25.36	25.32	27.3
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.31	25.36	25.30	27.3
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.33	25.41	25.31	27.3
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.32	25.43	25.30	27.3
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.32	25.43	25.31	27.3
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.30	25.40	25.34	27.3
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.30	25.36	25.38	27.3
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.30	25.40	25.34	27.3
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.30	25.42	25.35	27.3
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.32	25.39	25.33	27.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	16.7
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	16.00	16.07	15.81	16.7
100	PI/2 BPSK	1	137	15.26	15.33	15.08	
100	PI/2 BPSK	1	271	15.85	15.92	15.66	
100	PI/2 BPSK	135	0	15.81	16.00	15.62	16.7
100	PI/2 BPSK	135	69	15.83	15.90	15.64	16.7
100	PI/2 BPSK	135	138	15.73	15.80	15.54	16.7
100	PI/2 BPSK	270	0	15.97	16.04	15.78	
100	QPSK	1	1	15.99	16.06	15.80	16.7
100	QPSK	1	137	15.25	15.32	15.07	
100	QPSK	1	271	15.83	15.90	15.64	
100	QPSK	135	0	15.81	15.88	15.62	16.7
100	QPSK	135	69	15.81	15.88	15.62	16.7
100	QPSK	135	138	15.72	15.79	15.53	16.7
100	QPSK	270	0	15.96	16.03	15.77	
100	16QAM	1	1	15.98	16.05	15.79	16.7
100	64QAM	1	1	15.93	16.00	15.74	16.7
100	256QAM	1	1	15.94	16.01	15.75	16.7
Channel				649668	656000	662332	16.7
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	15.91	16.01	15.71	16.7
Channel				649334	656000	662666	16.7
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	15.91	16.02	15.76	16.7
Channel				649000	656000	663000	16.7
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	15.92	15.97	15.71	16.7
Channel				648668	656000	663332	16.7
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	15.94	15.98	15.71	16.7
Channel				648334	656000	663666	16.7
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	15.93	15.97	15.74	16.7
Channel				648000	656000	664000	16.7
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	15.93	16.01	15.75	16.7
Channel				647668	656000	664332	16.7
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	15.94	15.99	15.72	16.7
Channel				647500	656000	664500	16.7
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	15.92	15.97	15.74	16.7
Channel				647334	656000	664666	16.7
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	15.91	15.99	15.75	16.7
Channel				647168	656000	664832	16.7
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	15.91	16.00	15.74	16.7
Channel				647000	656000	665000	16.7
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	15.92	16.02	15.77	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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.40	22.47	22.39	23.9
100	PI/2 BPSK	1	137	22.34	22.45	22.40	
100	PI/2 BPSK	1	271	22.37	22.46	22.34	
100	PI/2 BPSK	135	0	22.82	22.90	22.80	23.9
100	PI/2 BPSK	135	69	22.83	22.91	22.79	23.9
100	PI/2 BPSK	135	138	22.79	22.88	22.80	23.9
100	PI/2 BPSK	270	0	22.80	22.90	22.78	
100	QPSK	1	1	22.33	22.41	22.29	23.9
100	QPSK	1	137	22.34	22.39	22.31	
100	QPSK	1	271	22.33	22.38	22.31	
100	QPSK	135	0	22.65	22.75	22.67	23.9
100	QPSK	135	69	22.78	22.84	22.72	23.9
100	QPSK	135	138	22.73	22.81	22.70	23.9
100	QPSK	270	0	22.75	22.80	22.74	
100	16QAM	1	1	22.34	22.44	22.33	23.9
100	64QAM	1	1	22.32	22.41	22.31	23.9
100	256QAM	1	1	20.96	20.96	20.95	22.8
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.28	22.41	22.30	23.9
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.31	22.37	22.27	23.9
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.35	22.41	22.33	23.9
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.26	22.40	22.33	23.9
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.31	22.35	22.27	23.9
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.29	22.39	22.24	23.9
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.28	22.41	22.29	23.9
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.35	22.33	22.26	23.9
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.33	22.38	22.30	23.9
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.28	22.36	22.28	23.9
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.28	22.40	22.34	23.9





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.88	21.92	21.61	22.7
100	PI/2 BPSK	1	137	21.11	21.15	20.85	
100	PI/2 BPSK	1	271	21.70	21.74	21.43	
100	PI/2 BPSK	135	0	21.66	21.70	21.39	22.7
100	PI/2 BPSK	135	69	21.68	21.72	21.41	22.7
100	PI/2 BPSK	135	138	21.58	21.62	21.31	22.7
100	PI/2 BPSK	270	0	21.85	21.89	21.58	
100	QPSK	1	1	21.85	21.89	21.58	22.7
100	QPSK	1	137	21.09	21.13	20.83	
100	QPSK	1	271	21.68	21.72	21.41	
100	QPSK	135	0	21.64	21.68	21.37	22.7
100	QPSK	135	69	21.66	21.70	21.39	22.7
100	QPSK	135	138	21.55	21.59	21.28	22.7
100	QPSK	270	0	21.84	21.88	21.57	
100	16QAM	1	1	21.87	21.91	21.60	22.7
100	64QAM	1	1	21.81	21.85	21.54	22.7
100	256QAM	1	1	21.34	21.38	21.08	22.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.80	21.88	21.54	22.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.80	21.86	21.58	22.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.82	21.85	21.55	22.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.81	21.86	21.54	22.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.84	21.86	21.56	22.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.81	21.88	21.59	22.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.81	21.88	21.56	22.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.83	21.90	21.53	22.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.83	21.87	21.59	22.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.81	21.89	21.58	22.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.83	21.84	21.58	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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.40	22.47	22.39	23.9
100	PI/2 BPSK	1	137	22.34	22.45	22.40	
100	PI/2 BPSK	1	271	22.37	22.46	22.34	
100	PI/2 BPSK	135	0	22.82	22.90	22.80	23.9
100	PI/2 BPSK	135	69	22.83	22.91	22.79	23.9
100	PI/2 BPSK	135	138	22.79	22.88	22.80	23.9
100	PI/2 BPSK	270	0	22.80	22.90	22.78	
100	QPSK	1	1	22.33	22.41	22.29	23.9
100	QPSK	1	137	22.34	22.39	22.31	
100	QPSK	1	271	22.33	22.38	22.31	
100	QPSK	135	0	22.65	22.75	22.67	23.9
100	QPSK	135	69	22.78	22.84	22.72	23.9
100	QPSK	135	138	22.73	22.81	22.70	23.9
100	QPSK	270	0	22.75	22.80	22.74	
100	16QAM	1	1	22.34	22.44	22.33	23.9
100	64QAM	1	1	22.32	22.41	22.31	23.9
100	256QAM	1	1	20.96	20.96	20.95	22.8
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.28	22.41	22.30	23.9
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.31	22.37	22.27	23.9
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.35	22.41	22.33	23.9
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.26	22.40	22.33	23.9
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.31	22.35	22.27	23.9
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.29	22.39	22.24	23.9
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.28	22.41	22.29	23.9
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.35	22.33	22.26	23.9
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.33	22.38	22.30	23.9
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.28	22.36	22.28	23.9
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.28	22.40	22.34	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.07	23.18	23.16	24.7
100	PI/2 BPSK	1	137	22.70	22.70	22.71	
100	PI/2 BPSK	1	271	22.94	22.91	22.87	
100	PI/2 BPSK	135	0	22.70	22.88	22.76	24.7
100	PI/2 BPSK	135	69	22.72	22.91	22.73	24.7
100	PI/2 BPSK	135	138	22.80	22.89	22.81	24.7
100	PI/2 BPSK	270	0	23.08	23.17	23.06	
100	QPSK	1	1	23.07	23.01	22.92	24.7
100	QPSK	1	137	22.78	22.80	22.71	
100	QPSK	1	271	22.85	22.91	22.76	
100	QPSK	135	0	22.77	22.76	22.76	24.7
100	QPSK	135	69	22.81	22.88	22.75	24.7
100	QPSK	135	138	22.99	22.70	22.71	24.7
100	QPSK	270	0	22.91	23.07	22.95	
100	16QAM	1	1	22.97	23.04	22.99	24.7
100	64QAM	1	1	22.70	22.78	22.73	24.6
100	256QAM	1	1	21.35	21.33	21.27	22.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.87	23.02	22.95	24.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.91	23.02	22.97	24.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.85	23.01	22.96	24.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.90	23.05	22.98	24.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.92	23.04	23.03	24.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.86	22.98	22.96	24.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.89	22.97	23.01	24.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.94	22.96	23.00	24.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.90	22.98	22.94	24.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.93	22.99	22.99	24.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.91	23.00	23.02	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	22.40	22.47	22.39	23.9
100	PI/2 BPSK	1	137	22.34	22.45	22.40	
100	PI/2 BPSK	1	271	22.37	22.46	22.34	
100	PI/2 BPSK	135	0	22.82	22.90	22.80	23.9
100	PI/2 BPSK	135	69	22.83	22.91	22.79	23.9
100	PI/2 BPSK	135	138	22.79	22.88	22.80	23.9
100	PI/2 BPSK	270	0	22.80	22.90	22.78	
100	QPSK	1	1	22.33	22.41	22.29	23.9
100	QPSK	1	137	22.34	22.39	22.31	
100	QPSK	1	271	22.33	22.38	22.31	
100	QPSK	135	0	22.65	22.75	22.67	23.9
100	QPSK	135	69	22.78	22.84	22.72	23.9
100	QPSK	135	138	22.73	22.81	22.70	23.9
100	QPSK	270	0	22.75	22.80	22.74	
100	16QAM	1	1	22.34	22.44	22.33	23.9
100	64QAM	1	1	22.32	22.41	22.31	23.9
100	256QAM	1	1	20.96	20.96	20.95	22.8
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.28	22.41	22.30	23.9
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.31	22.37	22.27	23.9
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.35	22.41	22.33	23.9
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.26	22.40	22.33	23.9
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.31	22.35	22.27	23.9
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.29	22.39	22.24	23.9
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.28	22.41	22.29	23.9
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.35	22.33	22.26	23.9
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.33	22.38	22.30	23.9
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.28	22.36	22.28	23.9
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.28	22.40	22.34	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.88	21.92	21.61	22.7
100	PI/2 BPSK	1	137	21.11	21.15	20.85	
100	PI/2 BPSK	1	271	21.70	21.74	21.43	
100	PI/2 BPSK	135	0	21.66	21.70	21.39	22.7
100	PI/2 BPSK	135	69	21.68	21.72	21.41	22.7
100	PI/2 BPSK	135	138	21.58	21.62	21.31	22.7
100	PI/2 BPSK	270	0	21.85	21.89	21.58	
100	QPSK	1	1	21.85	21.89	21.58	22.7
100	QPSK	1	137	21.09	21.13	20.83	
100	QPSK	1	271	21.68	21.72	21.41	
100	QPSK	135	0	21.64	21.68	21.37	22.7
100	QPSK	135	69	21.66	21.70	21.39	22.7
100	QPSK	135	138	21.55	21.59	21.28	22.7
100	QPSK	270	0	21.84	21.88	21.57	
100	16QAM	1	1	21.87	21.91	21.60	22.7
100	64QAM	1	1	21.81	21.85	21.54	22.7
100	256QAM	1	1	21.34	21.38	21.08	22.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.80	21.88	21.54	22.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.80	21.86	21.58	22.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.82	21.85	21.55	22.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.81	21.86	21.54	22.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.84	21.86	21.56	22.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.81	21.88	21.59	22.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.81	21.88	21.56	22.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.83	21.90	21.53	22.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.83	21.87	21.59	22.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.81	21.89	21.58	22.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.83	21.84	21.58	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.17		25.7
100	PI/2 BPSK	1	137		24.02		
100	PI/2 BPSK	1	271		24.11		
100	PI/2 BPSK	135	0		23.92		25.2
100	PI/2 BPSK	135	69		24.44		25.7
100	PI/2 BPSK	135	138		23.88		25.2
100	PI/2 BPSK	270	0		23.88		
100	QPSK	1	1		24.15		25.7
100	QPSK	1	137		23.96		
100	QPSK	1	271		24.07		
100	QPSK	135	0		23.42		24.7
100	QPSK	135	69		24.42		25.7
100	QPSK	135	138		23.39		24.7
100	QPSK	270	0		23.39		
100	16QAM	1	1		22.90		24.7
100	64QAM	1	1		21.36		23.2
100	256QAM	1	1		19.44		21.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.13	24.12	24.14	25.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.15	24.09	24.12	25.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.15	24.16	24.09	25.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.09	24.13	24.14	25.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.16	24.13	24.13	25.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.12	24.08	24.14	25.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.11	24.16	24.07	25.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.13	24.11	24.10	25.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.16	24.13	24.08	25.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.10	24.10	24.11	25.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.13	24.14	24.12	25.7



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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		15.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.08		15.5
100	PI/2 BPSK	1	137		13.61		
100	PI/2 BPSK	1	271		14.07		15.5
100	PI/2 BPSK	135	0		13.94		
100	PI/2 BPSK	135	69		13.95		15.5
100	PI/2 BPSK	135	138		13.94		
100	PI/2 BPSK	270	0		14.09		15.5
100	QPSK	1	1		13.94		
100	QPSK	1	137		13.61		15.5
100	QPSK	1	271		13.96		
100	QPSK	135	0		13.84		15.5
100	QPSK	135	69		13.84		
100	QPSK	135	138		13.85		15.5
100	QPSK	270	0		13.96		
100	16QAM	1	1		14.07		15.5
100	64QAM	1	1		14.03		
100	256QAM	1	1		14.05		15.5
Channel				633000	633332	633666	15.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	13.88	13.95	13.93	15.5
Channel				632668	633332	634000	15.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.86	13.97	13.91	15.5
Channel				632334	633332	634332	15.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.86	13.93	13.91	15.5
Channel				632000	633332	634666	15.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.89	13.93	13.91	15.5
Channel				631668	633332	635000	15.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.85	13.98	13.92	15.5
Channel				631334	633332	635332	15.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.85	13.94	13.89	15.5
Channel				631000	633332	635666	15.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.87	13.93	13.90	15.5
Channel				630834	633332	635832	15.5
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	13.88	13.94	13.91	15.5
Channel				630668	633332	636000	15.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.84	13.94	13.92	15.5
Channel				630500	633332	636166	15.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.87	13.96	13.90	15.5
Channel				630334	633332	636332	15.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.86	13.96	13.90	15.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.74		24.3
100	PI/2 BPSK	1	137		23.32		
100	PI/2 BPSK	1	271		23.33		
100	PI/2 BPSK	135	0		23.43		24.3
100	PI/2 BPSK	135	69		23.31		24.3
100	PI/2 BPSK	135	138		23.28		24.3
100	PI/2 BPSK	270	0		23.29		
100	QPSK	1	1		23.44		24.3
100	QPSK	1	137		23.30		
100	QPSK	1	271		23.22		
100	QPSK	135	0		23.25		24.2
100	QPSK	135	69		23.21		24.3
100	QPSK	135	138		23.37		24.2
100	QPSK	270	0		23.38		
100	16QAM	1	1		22.95		24.2
100	64QAM	1	1		21.41		22.7
100	256QAM	1	1		19.48		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.55	23.59	23.66	24.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.60	23.69	23.64	24.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.70	23.62	23.71	24.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.67	23.56	23.54	24.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.66	23.57	23.55	24.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.63	23.64	23.72	24.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.66	23.60	23.64	24.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.73	23.62	23.63	24.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.57	23.65	23.67	24.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.66	23.64	23.66	24.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.70	23.59	23.66	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		13.6
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		13.11		13.6
100	PI/2 BPSK	1	137		12.55		
100	PI/2 BPSK	1	271		13.24		13.6
100	PI/2 BPSK	135	0		13.02		
100	PI/2 BPSK	135	69		13.06		13.6
100	PI/2 BPSK	135	138		13.22		
100	PI/2 BPSK	270	0		13.15		13.6
100	QPSK	1	1		13.01		
100	QPSK	1	137		12.55		13.6
100	QPSK	1	271		13.21		
100	QPSK	135	0		13.20		13.6
100	QPSK	135	69		13.03		
100	QPSK	135	138		13.07		13.6
100	QPSK	270	0		13.15		
100	16QAM	1	1		13.05		13.6
100	64QAM	1	1		13.02		
100	256QAM	1	1		13.06		13.6
Channel				633000	633332	633666	13.6
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	12.93	13.01	12.93	13.6
Channel				632668	633332	634000	13.6
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.01	13.00	12.99	13.6
Channel				632334	633332	634332	13.6
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.03	13.07	13.02	13.6
Channel				632000	633332	634666	13.6
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	12.99	12.93	13.08	13.6
Channel				631668	633332	635000	13.6
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.02	13.00	12.93	13.6
Channel				631334	633332	635332	13.6
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	12.96	13.00	12.98	13.6
Channel				631000	633332	635666	13.6
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	12.93	13.03	12.94	13.6
Channel				630834	633332	635832	13.6
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	12.94	12.98	12.92	13.6
Channel				630668	633332	636000	13.6
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.09	12.91	13.11	13.6
Channel				630500	633332	636166	13.6
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.00	13.02	12.99	13.6
Channel				630334	633332	636332	13.6
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.08	12.97	13.07	13.6



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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		20.8
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.52		20.8
100	PI/2 BPSK	1	137		19.48		
100	PI/2 BPSK	1	271		19.51		20.8
100	PI/2 BPSK	135	0		19.90		
100	PI/2 BPSK	135	69		19.91		20.8
100	PI/2 BPSK	135	138		19.90		
100	PI/2 BPSK	270	0		19.85		20.8
100	QPSK	1	1		19.42		
100	QPSK	1	137		19.39		20.8
100	QPSK	1	271		19.42		
100	QPSK	135	0		19.80		20.8
100	QPSK	135	69		19.84		
100	QPSK	135	138		19.83		20.8
100	QPSK	270	0		19.78		
100	16QAM	1	1		19.49		20.8
100	64QAM	1	1		19.43		
100	256QAM	1	1		19.43		20.8
Channel				633000	633332	633666	20.8
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.42	19.45	19.40	20.8
Channel				632668	633332	634000	20.8
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.41	19.41	19.38	20.8
Channel				632334	633332	634332	20.8
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.37	19.47	19.41	20.8
Channel				632000	633332	634666	20.8
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.34	19.44	19.43	20.8
Channel				631668	633332	635000	20.8
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.41	19.40	19.38	20.8
Channel				631334	633332	635332	20.8
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.33	19.47	19.43	20.8
Channel				631000	633332	635666	20.8
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.39	19.41	19.35	20.8
Channel				630834	633332	635832	20.8
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.37	19.49	19.38	20.8
Channel				630668	633332	636000	20.8
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.40	19.42	19.42	20.8
Channel				630500	633332	636166	20.8
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.42	19.44	19.36	20.8
Channel				630334	633332	636332	20.8
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.37	19.43	19.35	20.8



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.10		19.6
100	PI/2 BPSK	1	137		18.39		
100	PI/2 BPSK	1	271		19.09		
100	PI/2 BPSK	135	0		19.00		19.6
100	PI/2 BPSK	135	69		19.01		19.6
100	PI/2 BPSK	135	138		18.95		19.6
100	PI/2 BPSK	270	0		19.00		
100	QPSK	1	1		19.05		19.6
100	QPSK	1	137		18.35		
100	QPSK	1	271		19.06		
100	QPSK	135	0		18.99		19.6
100	QPSK	135	69		19.00		19.6
100	QPSK	135	138		18.93		19.6
100	QPSK	270	0		18.97		
100	16QAM	1	1		19.00		19.6
100	64QAM	1	1		18.91		19.6
100	256QAM	1	1		18.94		19.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.90	18.93	18.85	19.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.83	18.90	18.81	19.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.87	18.89	18.80	19.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.84	18.88	18.77	19.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.83	18.86	18.80	19.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.82	18.85	18.82	19.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.83	18.86	18.80	19.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.88	18.86	18.82	19.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.86	18.89	18.77	19.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.84	18.89	18.80	19.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.84	18.88	18.83	19.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.8
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.52		20.8
100	PI/2 BPSK	1	137		19.48		
100	PI/2 BPSK	1	271		19.51		20.8
100	PI/2 BPSK	135	0		19.90		
100	PI/2 BPSK	135	69		19.91		20.8
100	PI/2 BPSK	135	138		19.90		
100	PI/2 BPSK	270	0		19.85		20.8
100	QPSK	1	1		19.42		
100	QPSK	1	137		19.39		20.8
100	QPSK	1	271		19.42		
100	QPSK	135	0		19.80		20.8
100	QPSK	135	69		19.84		
100	QPSK	135	138		19.83		20.8
100	QPSK	270	0		19.78		
100	16QAM	1	1		19.49		20.8
100	64QAM	1	1		19.43		
100	256QAM	1	1		19.43		20.8
Channel				633000	633332	633666	20.8
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.42	19.45	19.40	20.8
Channel				632668	633332	634000	20.8
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.41	19.41	19.38	20.8
Channel				632334	633332	634332	20.8
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.37	19.47	19.41	20.8
Channel				632000	633332	634666	20.8
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.34	19.44	19.43	20.8
Channel				631668	633332	635000	20.8
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.41	19.40	19.38	20.8
Channel				631334	633332	635332	20.8
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.33	19.47	19.43	20.8
Channel				631000	633332	635666	20.8
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.39	19.41	19.35	20.8
Channel				630834	633332	635832	20.8
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.37	19.49	19.38	20.8
Channel				630668	633332	636000	20.8
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.40	19.42	19.42	20.8
Channel				630500	633332	636166	20.8
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.42	19.44	19.36	20.8
Channel				630334	633332	636332	20.8
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.37	19.43	19.35	20.8



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		21.6
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.17		21.6
100	PI/2 BPSK	1	137		19.61		
100	PI/2 BPSK	1	271		20.10		21.6
100	PI/2 BPSK	135	0		20.01		
100	PI/2 BPSK	135	69		20.03		21.6
100	PI/2 BPSK	135	138		20.00		
100	PI/2 BPSK	270	0		20.07		21.6
100	QPSK	1	1		20.31		
100	QPSK	1	137		19.66		21.6
100	QPSK	1	271		20.00		
100	QPSK	135	0		20.00		21.6
100	QPSK	135	69		19.93		
100	QPSK	135	138		20.02		21.6
100	QPSK	270	0		20.36		
100	16QAM	1	1		20.25		21.6
100	64QAM	1	1		20.21		
100	256QAM	1	1		20.20		21.2
Channel				633000	633332	633666	21.6
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.05	20.05	20.02	21.6
Channel				632668	633332	634000	21.6
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.10	20.05	19.99	21.6
Channel				632334	633332	634332	21.6
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.05	20.06	20.06	21.6
Channel				632000	633332	634666	21.6
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.06	20.12	20.06	21.6
Channel				631668	633332	635000	21.6
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.06	20.05	19.99	21.6
Channel				631334	633332	635332	21.6
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.05	20.05	20.03	21.6
Channel				631000	633332	635666	21.6
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.10	20.05	20.05	21.6
Channel				630834	633332	635832	21.6
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.05	20.10	20.04	21.6
Channel				630668	633332	636000	21.6
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.05	20.11	20.05	21.6
Channel				630500	633332	636166	21.6
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.07	20.09	19.99	21.6
Channel				630334	633332	636332	21.6
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.06	20.08	20.06	21.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.8
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.52		20.8
100	PI/2 BPSK	1	137		19.48		
100	PI/2 BPSK	1	271		19.51		20.8
100	PI/2 BPSK	135	0		19.90		
100	PI/2 BPSK	135	69		19.91		20.8
100	PI/2 BPSK	135	138		19.90		
100	PI/2 BPSK	270	0		19.85		20.8
100	QPSK	1	1		19.42		
100	QPSK	1	137		19.39		20.8
100	QPSK	1	271		19.42		
100	QPSK	135	0		19.80		20.8
100	QPSK	135	69		19.84		
100	QPSK	135	138		19.83		20.8
100	QPSK	270	0		19.78		
100	16QAM	1	1		19.49		20.8
100	64QAM	1	1		19.43		
100	256QAM	1	1		19.43		20.8
Channel				633000	633332	633666	20.8
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.42	19.45	19.40	20.8
Channel				632668	633332	634000	20.8
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.41	19.41	19.38	20.8
Channel				632334	633332	634332	20.8
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.37	19.47	19.41	20.8
Channel				632000	633332	634666	20.8
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.34	19.44	19.43	20.8
Channel				631668	633332	635000	20.8
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.41	19.40	19.38	20.8
Channel				631334	633332	635332	20.8
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.33	19.47	19.43	20.8
Channel				631000	633332	635666	20.8
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.39	19.41	19.35	20.8
Channel				630834	633332	635832	20.8
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.37	19.49	19.38	20.8
Channel				630668	633332	636000	20.8
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.40	19.42	19.42	20.8
Channel				630500	633332	636166	20.8
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.42	19.44	19.36	20.8
Channel				630334	633332	636332	20.8
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.37	19.43	19.35	20.8



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.10		19.6
100	PI/2 BPSK	1	137		18.39		
100	PI/2 BPSK	1	271		19.09		
100	PI/2 BPSK	135	0		19.00		19.6
100	PI/2 BPSK	135	69		19.01		19.6
100	PI/2 BPSK	135	138		18.95		19.6
100	PI/2 BPSK	270	0		19.00		
100	QPSK	1	1		19.05		19.6
100	QPSK	1	137		18.35		
100	QPSK	1	271		19.06		
100	QPSK	135	0		18.99		19.6
100	QPSK	135	69		19.00		19.6
100	QPSK	135	138		18.93		19.6
100	QPSK	270	0		18.97		
100	16QAM	1	1		19.00		19.6
100	64QAM	1	1		18.91		19.6
100	256QAM	1	1		18.94		19.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.90	18.93	18.85	19.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.83	18.90	18.81	19.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.87	18.89	18.80	19.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.84	18.88	18.77	19.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.83	18.86	18.80	19.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.82	18.85	18.82	19.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.83	18.86	18.80	19.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.88	18.86	18.82	19.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.86	18.89	18.77	19.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.84	18.89	18.80	19.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.84	18.88	18.83	19.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.44		27.3
100	PI/2 BPSK	1	137		25.42		
100	PI/2 BPSK	1	271		25.43		
100	PI/2 BPSK	135	0		25.46		26.8
100	PI/2 BPSK	135	69		25.98		27.3
100	PI/2 BPSK	135	138		25.43		26.8
100	PI/2 BPSK	270	0		25.43		
100	QPSK	1	1		25.42		27.3
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.41		
100	QPSK	135	0		25.00		26.3
100	QPSK	135	69		25.96		27.3
100	QPSK	135	138		24.91		26.3
100	QPSK	270	0		24.93		
100	16QAM	1	1		24.45		26.3
100	64QAM	1	1		22.89		24.8
100	256QAM	1	1		20.94		22.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.43	25.42	25.40	27.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.38	25.41	25.32	27.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.35	25.39	25.37	27.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.35	25.32	25.32	27.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.38	25.32	25.39	27.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.33	25.39	25.34	27.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.40	25.40	25.32	27.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.35	25.40	25.34	27.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.42	25.37	25.36	27.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.35	25.41	25.30	27.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.37	25.36	25.34	27.3





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.03		18.6
100	PI/2 BPSK	1	137		16.64		
100	PI/2 BPSK	1	271		16.81		
100	PI/2 BPSK	135	0		16.69		18.6
100	PI/2 BPSK	135	69		16.71		18.6
100	PI/2 BPSK	135	138		16.69		18.6
100	PI/2 BPSK	270	0		17.02		
100	QPSK	1	1		16.94		18.6
100	QPSK	1	137		16.57		
100	QPSK	1	271		16.76		
100	QPSK	135	0		16.61		18.6
100	QPSK	135	69		16.64		18.6
100	QPSK	135	138		16.59		18.6
100	QPSK	270	0		16.90		
100	16QAM	1	1		16.94		18.6
100	64QAM	1	1		16.97		18.6
100	256QAM	1	1		17.00		18.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.92	16.98	16.98	18.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.91	16.97	16.94	18.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.94	16.95	16.96	18.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.93	16.97	16.98	18.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.92	16.98	16.93	18.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.92	16.97	16.96	18.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.93	16.97	16.93	18.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.92	16.95	16.98	18.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.91	16.96	16.95	18.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.93	16.97	16.98	18.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.93	16.96	16.98	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.44		27.3
100	PI/2 BPSK	1	137		25.42		
100	PI/2 BPSK	1	271		25.43		
100	PI/2 BPSK	135	0		25.46		26.8
100	PI/2 BPSK	135	69		25.98		27.3
100	PI/2 BPSK	135	138		25.43		26.8
100	PI/2 BPSK	270	0		25.43		
100	QPSK	1	1		25.42		27.3
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.41		
100	QPSK	135	0		25.00		26.3
100	QPSK	135	69		25.96		27.3
100	QPSK	135	138		24.91		26.3
100	QPSK	270	0		24.93		
100	16QAM	1	1		24.45		26.3
100	64QAM	1	1		22.89		24.8
100	256QAM	1	1		20.94		22.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.43	25.42	25.40	27.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.38	25.41	25.32	27.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.35	25.39	25.37	27.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.35	25.32	25.32	27.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.38	25.32	25.39	27.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.33	25.39	25.34	27.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.40	25.40	25.32	27.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.35	25.40	25.34	27.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.42	25.37	25.36	27.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.35	25.41	25.30	27.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.37	25.36	25.34	27.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		16.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.10		16.7
100	PI/2 BPSK	1	137		15.44		
100	PI/2 BPSK	1	271		16.09		16.7
100	PI/2 BPSK	135	0		16.09		
100	PI/2 BPSK	135	69		16.05		16.7
100	PI/2 BPSK	135	138		15.96		
100	PI/2 BPSK	270	0		16.05		16.7
100	QPSK	1	1		16.08		
100	QPSK	1	137		15.42		16.7
100	QPSK	1	271		16.05		
100	QPSK	135	0		16.07		16.7
100	QPSK	135	69		16.07		
100	QPSK	135	138		15.95		16.7
100	QPSK	270	0		16.03		
100	16QAM	1	1		16.08		16.7
100	64QAM	1	1		16.00		
100	256QAM	1	1		16.01		16.7
Channel				633000	633332	633666	16.7
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.91	15.88	15.85	16.7
Channel				632668	633332	634000	16.7
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.85	15.81	15.83	16.7
Channel				632334	633332	634332	16.7
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.83	15.80	15.80	16.7
Channel				632000	633332	634666	16.7
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.83	15.85	15.82	16.7
Channel				631668	633332	635000	16.7
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.89	15.86	15.77	16.7
Channel				631334	633332	635332	16.7
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.89	15.84	15.79	16.7
Channel				631000	633332	635666	16.7
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.84	15.83	15.81	16.7
Channel				630834	633332	635832	16.7
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.85	15.81	15.77	16.7
Channel				630668	633332	636000	16.7
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.85	15.80	15.79	16.7
Channel				630500	633332	636166	16.7
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.85	15.86	15.83	16.7
Channel				630334	633332	636332	16.7
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.88	15.81	15.79	16.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.47		23.9
100	PI/2 BPSK	1	137		22.47		
100	PI/2 BPSK	1	271		22.44		
100	PI/2 BPSK	135	0		22.90		23.9
100	PI/2 BPSK	135	69		22.94		23.9
100	PI/2 BPSK	135	138		22.88		23.9
100	PI/2 BPSK	270	0		22.93		
100	QPSK	1	1		22.41		23.9
100	QPSK	1	137		22.44		
100	QPSK	1	271		22.39		
100	QPSK	135	0		22.80		23.9
100	QPSK	135	69		22.85		23.9
100	QPSK	135	138		22.81		23.9
100	QPSK	270	0		22.80		
100	16QAM	1	1		22.47		23.9
100	64QAM	1	1		22.46		23.9
100	256QAM	1	1		21.01		22.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.39	22.38	22.38	23.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.37	22.35	22.38	23.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.31	22.35	22.40	23.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.31	22.34	22.40	23.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.33	22.39	22.33	23.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.37	22.38	22.34	23.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.31	22.41	22.32	23.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.34	22.38	22.38	23.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.38	22.37	22.38	23.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.34	22.41	22.35	23.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.32	22.38	22.39	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.02		22.7
100	PI/2 BPSK	1	137		21.31		
100	PI/2 BPSK	1	271		22.01		
100	PI/2 BPSK	135	0		21.88		22.7
100	PI/2 BPSK	135	69		21.89		22.7
100	PI/2 BPSK	135	138		21.83		22.7
100	PI/2 BPSK	270	0		21.94		
100	QPSK	1	1		21.99		22.7
100	QPSK	1	137		21.28		
100	QPSK	1	271		21.97		
100	QPSK	135	0		21.85		22.7
100	QPSK	135	69		21.88		22.7
100	QPSK	135	138		21.81		22.7
100	QPSK	270	0		21.90		
100	16QAM	1	1		21.91		22.7
100	64QAM	1	1		21.84		22.7
100	256QAM	1	1		21.35		22.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.80	21.83	21.72	22.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.75	21.81	21.69	22.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.77	21.79	21.67	22.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.75	21.80	21.65	22.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.75	21.78	21.70	22.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.76	21.81	21.65	22.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.72	21.75	21.70	22.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.72	21.78	21.70	22.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.78	21.76	21.65	22.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.75	21.79	21.69	22.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.75	21.76	21.68	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.47		23.9
100	PI/2 BPSK	1	137		22.47		
100	PI/2 BPSK	1	271		22.44		
100	PI/2 BPSK	135	0		22.90		23.9
100	PI/2 BPSK	135	69		22.94		23.9
100	PI/2 BPSK	135	138		22.88		23.9
100	PI/2 BPSK	270	0		22.93		
100	QPSK	1	1		22.41		23.9
100	QPSK	1	137		22.44		
100	QPSK	1	271		22.39		
100	QPSK	135	0		22.80		23.9
100	QPSK	135	69		22.85		23.9
100	QPSK	135	138		22.81		23.9
100	QPSK	270	0		22.80		
100	16QAM	1	1		22.47		23.9
100	64QAM	1	1		22.46		23.9
100	256QAM	1	1		21.01		22.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.39	22.38	22.38	23.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.37	22.35	22.38	23.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.31	22.35	22.40	23.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.31	22.34	22.40	23.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.33	22.39	22.33	23.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.37	22.38	22.34	23.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.31	22.41	22.32	23.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.34	22.38	22.38	23.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.38	22.37	22.38	23.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.34	22.41	22.35	23.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.32	22.38	22.39	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.14		24.7
100	PI/2 BPSK	1	137		22.75		
100	PI/2 BPSK	1	271		22.87		
100	PI/2 BPSK	135	0		22.98		24.7
100	PI/2 BPSK	135	69		23.02		24.7
100	PI/2 BPSK	135	138		22.99		24.7
100	PI/2 BPSK	270	0		23.15		
100	QPSK	1	1		22.91		24.7
100	QPSK	1	137		22.71		
100	QPSK	1	271		22.73		
100	QPSK	135	0		23.07		24.7
100	QPSK	135	69		22.72		24.7
100	QPSK	135	138		23.05		24.7
100	QPSK	270	0		22.80		
100	16QAM	1	1		22.90		24.7
100	64QAM	1	1		22.82		24.6
100	256QAM	1	1		21.27		22.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.95	22.99	22.92	24.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.94	22.93	22.97	24.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.92	22.91	22.90	24.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.97	23.00	22.88	24.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.89	22.96	22.88	24.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.87	22.99	22.90	24.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.91	22.93	22.90	24.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.87	22.93	22.93	24.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.87	22.96	22.95	24.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.93	23.00	22.93	24.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.92	22.93	22.92	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		22.47		23.9
100	PI/2 BPSK	1	137		22.47		
100	PI/2 BPSK	1	271		22.44		
100	PI/2 BPSK	135	0		22.90		23.9
100	PI/2 BPSK	135	69		22.94		23.9
100	PI/2 BPSK	135	138		22.88		23.9
100	PI/2 BPSK	270	0		22.93		
100	QPSK	1	1		22.41		23.9
100	QPSK	1	137		22.44		
100	QPSK	1	271		22.39		
100	QPSK	135	0		22.80		23.9
100	QPSK	135	69		22.85		23.9
100	QPSK	135	138		22.81		23.9
100	QPSK	270	0		22.80		
100	16QAM	1	1		22.47		23.9
100	64QAM	1	1		22.46		23.9
100	256QAM	1	1		21.01		22.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.39	22.38	22.38	23.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.37	22.35	22.38	23.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.31	22.35	22.40	23.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.31	22.34	22.40	23.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.33	22.39	22.33	23.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.37	22.38	22.34	23.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.31	22.41	22.32	23.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.34	22.38	22.38	23.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.38	22.37	22.38	23.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.34	22.41	22.35	23.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.32	22.38	22.39	23.9





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.02		22.7
100	PI/2 BPSK	1	137		21.31		
100	PI/2 BPSK	1	271		22.01		
100	PI/2 BPSK	135	0		21.88		22.7
100	PI/2 BPSK	135	69		21.89		22.7
100	PI/2 BPSK	135	138		21.83		22.7
100	PI/2 BPSK	270	0		21.94		
100	QPSK	1	1		21.99		22.7
100	QPSK	1	137		21.28		
100	QPSK	1	271		21.97		
100	QPSK	135	0		21.85		22.7
100	QPSK	135	69		21.88		22.7
100	QPSK	135	138		21.81		22.7
100	QPSK	270	0		21.90		
100	16QAM	1	1		21.91		22.7
100	64QAM	1	1		21.84		22.7
100	256QAM	1	1		21.35		22.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.80	21.83	21.72	22.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.75	21.81	21.69	22.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.77	21.79	21.67	22.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.75	21.80	21.65	22.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.75	21.78	21.70	22.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.76	21.81	21.65	22.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.72	21.75	21.70	22.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.72	21.78	21.70	22.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.78	21.76	21.65	22.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.75	21.79	21.69	22.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.75	21.76	21.68	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.90		25.7
100	PI/2 BPSK	1	137		23.85		
100	PI/2 BPSK	1	271		23.89		
100	PI/2 BPSK	135	0		24.17		25.2
100	PI/2 BPSK	135	69		24.69		25.7
100	PI/2 BPSK	135	138		23.78		25.2
100	PI/2 BPSK	270	0		23.82		
100	QPSK	1	1		23.84		25.7
100	QPSK	1	137		23.88		
100	QPSK	1	271		23.90		
100	QPSK	135	0		23.68		24.7
100	QPSK	135	69		24.65		25.7
100	QPSK	135	138		23.28		24.7
100	QPSK	270	0		23.32		
100	16QAM	1	1		22.87		24.7
100	64QAM	1	1		21.37		23.2
100	256QAM	1	1		19.42		21.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.85	23.89	23.88	25.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.76	23.86	23.84	25.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.80	23.87	23.78	25.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.77	23.82	23.79	25.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.81	23.80	23.86	25.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.76	23.81	23.79	25.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.76	23.79	23.78	25.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.82	23.84	23.85	25.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.78	23.83	23.87	25.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.84	23.80	23.82	25.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.83	23.86	23.83	25.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		14.10		15.5
100	PI/2 BPSK	1	137		14.01		
100	PI/2 BPSK	1	271		14.00		
100	PI/2 BPSK	135	0		14.01		15.5
100	PI/2 BPSK	135	69		14.02		15.5
100	PI/2 BPSK	135	138		14.01		15.5
100	PI/2 BPSK	270	0		14.10		
100	QPSK	1	1		14.03		15.5
100	QPSK	1	137		14.01		
100	QPSK	1	271		13.92		
100	QPSK	135	0		13.90		15.5
100	QPSK	135	69		13.83		15.5
100	QPSK	135	138		13.87		15.5
100	QPSK	270	0		13.88		
100	16QAM	1	1		13.86		15.5
100	64QAM	1	1		13.95		15.5
100	256QAM	1	1		13.86		15.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	13.90	13.94	13.85	15.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	13.87	13.90	13.85	15.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	13.88	13.97	13.85	15.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	13.94	13.88	13.86	15.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	13.92	13.97	13.87	15.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	13.93	13.95	13.93	15.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	13.92	13.91	13.85	15.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	13.90	13.94	13.87	15.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	13.91	13.88	13.92	15.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	13.94	13.88	13.86	15.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	13.89	13.94	13.90	15.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.42		24.3
100	PI/2 BPSK	1	137		23.22		
100	PI/2 BPSK	1	271		23.25		
100	PI/2 BPSK	135	0		23.10		24.3
100	PI/2 BPSK	135	69		23.13		24.3
100	PI/2 BPSK	135	138		23.20		24.3
100	PI/2 BPSK	270	0		23.36		
100	QPSK	1	1		23.26		24.3
100	QPSK	1	137		23.13		
100	QPSK	1	271		23.25		
100	QPSK	135	0		23.20		24.2
100	QPSK	135	69		23.22		24.3
100	QPSK	135	138		23.30		24.2
100	QPSK	270	0		23.35		
100	16QAM	1	1		22.96		24.2
100	64QAM	1	1		21.44		22.7
100	256QAM	1	1		19.49		20.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.33	23.26	23.24	24.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.38	23.29	23.28	24.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.32	23.39	23.26	24.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.36	23.28	23.26	24.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.38	23.25	23.35	24.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.23	23.29	23.28	24.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.25	23.23	23.39	24.3
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.39	23.35	23.22	24.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.37	23.26	23.33	24.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.29	23.38	23.23	24.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.22	23.22	23.28	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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		12.84		13.6
100	PI/2 BPSK	1	137		12.33		
100	PI/2 BPSK	1	271		13.10		
100	PI/2 BPSK	135	0		13.18		13.6
100	PI/2 BPSK	135	69		12.77		13.6
100	PI/2 BPSK	135	138		12.90		13.6
100	PI/2 BPSK	270	0		12.89		
100	QPSK	1	1		12.79		13.6
100	QPSK	1	137		12.32		
100	QPSK	1	271		13.06		
100	QPSK	135	0		13.15		13.6
100	QPSK	135	69		12.78		13.6
100	QPSK	135	138		12.89		13.6
100	QPSK	270	0		12.89		
100	16QAM	1	1		12.80		13.6
100	64QAM	1	1		12.78		13.6
100	256QAM	1	1		12.81		13.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	12.83	12.68	12.77	13.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	12.84	12.84	12.76	13.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	12.65	12.72	12.65	13.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	12.81	12.82	12.80	13.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	12.75	12.81	12.76	13.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	12.68	12.69	12.79	13.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	12.66	12.79	12.70	13.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	12.67	12.68	12.70	13.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	12.84	12.81	12.81	13.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	12.77	12.66	12.69	13.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	12.71	12.78	12.69	13.6



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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		19.62		20.8
100	PI/2 BPSK	1	137		19.46		
100	PI/2 BPSK	1	271		19.50		
100	PI/2 BPSK	135	0		19.84		20.8
100	PI/2 BPSK	135	69		19.98		20.8
100	PI/2 BPSK	135	138		19.82		20.8
100	PI/2 BPSK	270	0		20.03		
100	QPSK	1	1		19.48		20.8
100	QPSK	1	137		19.42		
100	QPSK	1	271		19.38		
100	QPSK	135	0		19.91		20.8
100	QPSK	135	69		19.85		20.8
100	QPSK	135	138		19.81		20.8
100	QPSK	270	0		20.00		
100	16QAM	1	1		20.00		20.8
100	64QAM	1	1		19.94		20.8
100	256QAM	1	1		20.02		20.8
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.57	19.47	19.38	20.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.60	19.50	19.36	20.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.56	19.50	19.36	20.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.59	19.48	19.38	20.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.56	19.48	19.38	20.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.58	19.45	19.39	20.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.56	19.47	19.37	20.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.59	19.48	19.36	20.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.59	19.49	19.35	20.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.61	19.49	19.39	20.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.61	19.47	19.35	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		18.92		19.6
100	PI/2 BPSK	1	137		18.34		
100	PI/2 BPSK	1	271		18.88		
100	PI/2 BPSK	135	0		19.01		19.6
100	PI/2 BPSK	135	69		19.06		19.6
100	PI/2 BPSK	135	138		18.87		19.6
100	PI/2 BPSK	270	0		18.91		
100	QPSK	1	1		18.88		19.6
100	QPSK	1	137		18.29		
100	QPSK	1	271		18.86		
100	QPSK	135	0		18.95		19.6
100	QPSK	135	69		19.00		19.6
100	QPSK	135	138		18.85		19.6
100	QPSK	270	0		18.90		
100	16QAM	1	1		18.89		19.6
100	64QAM	1	1		18.84		19.6
100	256QAM	1	1		18.84		19.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.82	18.82	18.81	19.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.80	18.77	18.75	19.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.74	18.76	18.76	19.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.77	18.77	18.77	19.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.78	18.75	18.79	19.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.75	18.79	18.76	19.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.76	18.78	18.73	19.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	18.75	18.75	18.78	19.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.79	18.76	18.77	19.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.77	18.77	18.74	19.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.80	18.74	18.78	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		19.62		20.8
100	PI/2 BPSK	1	137		19.46		
100	PI/2 BPSK	1	271		19.50		
100	PI/2 BPSK	135	0		19.84		20.8
100	PI/2 BPSK	135	69		19.98		20.8
100	PI/2 BPSK	135	138		19.82		20.8
100	PI/2 BPSK	270	0		20.03		
100	QPSK	1	1		19.48		20.8
100	QPSK	1	137		19.42		
100	QPSK	1	271		19.38		
100	QPSK	135	0		19.91		20.8
100	QPSK	135	69		19.85		20.8
100	QPSK	135	138		19.81		20.8
100	QPSK	270	0		20.00		
100	16QAM	1	1		20.00		20.8
100	64QAM	1	1		19.94		20.8
100	256QAM	1	1		20.02		20.8
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.57	19.47	19.38	20.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.60	19.50	19.36	20.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.56	19.50	19.36	20.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.59	19.48	19.38	20.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.56	19.48	19.38	20.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.58	19.45	19.39	20.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.56	19.47	19.37	20.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.59	19.48	19.36	20.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.59	19.49	19.35	20.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.61	19.49	19.39	20.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.61	19.47	19.35	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.26		21.6
100	PI/2 BPSK	1	137		19.72		
100	PI/2 BPSK	1	271		20.10		
100	PI/2 BPSK	135	0		20.05		21.6
100	PI/2 BPSK	135	69		20.03		21.6
100	PI/2 BPSK	135	138		20.07		21.6
100	PI/2 BPSK	270	0		20.10		
100	QPSK	1	1		20.24		21.6
100	QPSK	1	137		19.67		
100	QPSK	1	271		19.96		
100	QPSK	135	0		19.87		21.6
100	QPSK	135	69		19.94		21.6
100	QPSK	135	138		19.94		21.6
100	QPSK	270	0		20.30		
100	16QAM	1	1		20.23		21.6
100	64QAM	1	1		20.15		21.6
100	256QAM	1	1		20.08		21.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.12	20.16	20.12	21.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.17	20.16	20.16	21.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.16	20.18	20.16	21.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.16	20.17	20.15	21.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.14	20.21	20.12	21.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.13	20.19	20.12	21.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.13	20.21	20.14	21.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.14	20.19	20.13	21.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.13	20.16	20.13	21.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.13	20.18	20.16	21.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.16	20.18	20.14	21.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		19.62		20.8
100	PI/2 BPSK	1	137		19.46		
100	PI/2 BPSK	1	271		19.50		
100	PI/2 BPSK	135	0		19.84		20.8
100	PI/2 BPSK	135	69		19.98		20.8
100	PI/2 BPSK	135	138		19.82		20.8
100	PI/2 BPSK	270	0		20.03		
100	QPSK	1	1		19.48		20.8
100	QPSK	1	137		19.42		
100	QPSK	1	271		19.38		
100	QPSK	135	0		19.91		20.8
100	QPSK	135	69		19.85		20.8
100	QPSK	135	138		19.81		20.8
100	QPSK	270	0		20.00		
100	16QAM	1	1		20.00		20.8
100	64QAM	1	1		19.94		20.8
100	256QAM	1	1		20.02		20.8
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.57	19.47	19.38	20.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.60	19.50	19.36	20.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.56	19.50	19.36	20.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.59	19.48	19.38	20.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.56	19.48	19.38	20.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.58	19.45	19.39	20.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.56	19.47	19.37	20.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.59	19.48	19.36	20.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.59	19.49	19.35	20.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.61	19.49	19.39	20.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.61	19.47	19.35	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		18.92		19.6
100	PI/2 BPSK	1	137		18.34		
100	PI/2 BPSK	1	271		18.88		
100	PI/2 BPSK	135	0		19.01		19.6
100	PI/2 BPSK	135	69		19.06		19.6
100	PI/2 BPSK	135	138		18.87		19.6
100	PI/2 BPSK	270	0		18.91		
100	QPSK	1	1		18.88		19.6
100	QPSK	1	137		18.29		
100	QPSK	1	271		18.86		
100	QPSK	135	0		18.95		19.6
100	QPSK	135	69		19.00		19.6
100	QPSK	135	138		18.85		19.6
100	QPSK	270	0		18.90		
100	16QAM	1	1		18.89		19.6
100	64QAM	1	1		18.84		19.6
100	256QAM	1	1		18.84		19.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.82	18.82	18.81	19.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.80	18.77	18.75	19.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.74	18.76	18.76	19.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.77	18.77	18.77	19.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.78	18.75	18.79	19.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.75	18.79	18.76	19.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.76	18.78	18.73	19.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	18.75	18.75	18.78	19.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.79	18.76	18.77	19.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.77	18.77	18.74	19.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.80	18.74	18.78	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		25.55		27.3
100	PI/2 BPSK	1	137		25.52		
100	PI/2 BPSK	1	271		25.45		
100	PI/2 BPSK	135	0		25.79		26.8
100	PI/2 BPSK	135	69		26.32		27.3
100	PI/2 BPSK	135	138		25.40		26.8
100	PI/2 BPSK	270	0		25.44		
100	QPSK	1	1		25.46		27.3
100	QPSK	1	137		25.44		
100	QPSK	1	271		25.48		
100	QPSK	135	0		25.31		26.3
100	QPSK	135	69		26.31		27.3
100	QPSK	135	138		24.92		26.3
100	QPSK	270	0		24.94		
100	16QAM	1	1		24.47		26.3
100	64QAM	1	1		22.91		24.8
100	256QAM	1	1		20.98		22.8
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	25.48	25.52	25.51	27.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.47	25.45	25.41	27.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.43	25.43	25.48	27.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	25.39	25.42	25.47	27.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	25.47	25.48	25.49	27.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.45	25.42	25.47	27.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	25.42	25.47	25.47	27.3
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	25.38	25.49	25.49	27.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	25.47	25.50	25.50	27.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	25.39	25.45	25.41	27.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	25.46	25.49	25.45	27.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		16.99		18.6
100	PI/2 BPSK	1	137		16.85		
100	PI/2 BPSK	1	271		16.85		
100	PI/2 BPSK	135	0		16.85		18.6
100	PI/2 BPSK	135	69		16.82		18.6
100	PI/2 BPSK	135	138		16.79		18.6
100	PI/2 BPSK	270	0		16.77		
100	QPSK	1	1		16.88		18.6
100	QPSK	1	137		16.83		
100	QPSK	1	271		16.79		
100	QPSK	135	0		16.82		18.6
100	QPSK	135	69		16.70		18.6
100	QPSK	135	138		16.71		18.6
100	QPSK	270	0		16.68		
100	16QAM	1	1		16.83		18.6
100	64QAM	1	1		16.89		18.6
100	256QAM	1	1		16.79		18.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	16.85	16.88	16.89	18.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	16.88	16.84	16.86	18.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	16.88	16.88	16.82	18.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	16.89	16.81	16.89	18.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	16.90	16.84	16.84	18.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	16.90	16.87	16.90	18.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	16.90	16.80	16.86	18.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	16.89	16.82	16.88	18.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	16.89	16.89	16.90	18.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	16.88	16.83	16.87	18.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	16.88	16.83	16.84	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		25.55		27.3
100	PI/2 BPSK	1	137		25.52		
100	PI/2 BPSK	1	271		25.45		
100	PI/2 BPSK	135	0		25.79		26.8
100	PI/2 BPSK	135	69		26.32		27.3
100	PI/2 BPSK	135	138		25.40		26.8
100	PI/2 BPSK	270	0		25.44		
100	QPSK	1	1		25.46		27.3
100	QPSK	1	137		25.44		
100	QPSK	1	271		25.48		
100	QPSK	135	0		25.31		26.3
100	QPSK	135	69		26.31		27.3
100	QPSK	135	138		24.92		26.3
100	QPSK	270	0		24.94		
100	16QAM	1	1		24.47		26.3
100	64QAM	1	1		22.91		24.8
100	256QAM	1	1		20.98		22.8
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	25.48	25.52	25.51	27.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.47	25.45	25.41	27.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.43	25.43	25.48	27.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	25.39	25.42	25.47	27.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	25.47	25.48	25.49	27.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.45	25.42	25.47	27.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	25.42	25.47	25.47	27.3
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	25.38	25.49	25.49	27.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	25.47	25.50	25.50	27.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	25.39	25.45	25.41	27.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	25.46	25.49	25.45	27.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		16.02		16.7
100	PI/2 BPSK	1	137		15.22		
100	PI/2 BPSK	1	271		16.01		
100	PI/2 BPSK	135	0		16.20		16.7
100	PI/2 BPSK	135	69		15.68		16.7
100	PI/2 BPSK	135	138		15.60		16.7
100	PI/2 BPSK	270	0		15.77		
100	QPSK	1	1		15.98		16.7
100	QPSK	1	137		15.18		
100	QPSK	1	271		15.95		
100	QPSK	135	0		16.05		16.7
100	QPSK	135	69		15.88		16.7
100	QPSK	135	138		15.61		16.7
100	QPSK	270	0		15.76		
100	16QAM	1	1		15.99		16.7
100	64QAM	1	1		15.93		16.7
100	256QAM	1	1		15.96		16.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	15.83	15.81	15.81	16.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	15.75	15.73	15.76	16.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	15.78	15.75	15.75	16.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	15.80	15.77	15.76	16.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	15.75	15.76	15.75	16.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	15.81	15.75	15.76	16.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	15.81	15.76	15.73	16.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	15.79	15.77	15.74	16.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	15.81	15.74	15.77	16.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	15.76	15.77	15.76	16.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	15.80	15.79	15.74	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.58		23.9
100	PI/2 BPSK	1	137		22.52		
100	PI/2 BPSK	1	271		22.51		
100	PI/2 BPSK	135	0		22.79		23.9
100	PI/2 BPSK	135	69		22.76		23.9
100	PI/2 BPSK	135	138		22.67		23.9
100	PI/2 BPSK	270	0		22.77		
100	QPSK	1	1		22.28		23.9
100	QPSK	1	137		22.32		
100	QPSK	1	271		22.25		
100	QPSK	135	0		22.65		23.9
100	QPSK	135	69		22.68		23.9
100	QPSK	135	138		22.64		23.9
100	QPSK	270	0		22.62		
100	16QAM	1	1		22.29		23.9
100	64QAM	1	1		22.30		23.9
100	256QAM	1	1		20.89		22.8
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.41	22.50	22.45	23.9
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.41	22.47	22.51	23.9
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.41	22.53	22.51	23.9
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.45	22.49	22.45	23.9
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.45	22.45	22.41	23.9
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.47	22.44	22.48	23.9
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.49	22.46	22.50	23.9
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.44	22.45	22.43	23.9
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.42	22.53	22.45	23.9
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.42	22.53	22.46	23.9
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.46	22.48	22.42	23.9





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.85		22.7
100	PI/2 BPSK	1	137		21.28		
100	PI/2 BPSK	1	271		21.83		
100	PI/2 BPSK	135	0		21.94		22.7
100	PI/2 BPSK	135	69		21.95		22.7
100	PI/2 BPSK	135	138		21.81		22.7
100	PI/2 BPSK	270	0		21.82		
100	QPSK	1	1		21.83		22.7
100	QPSK	1	137		21.27		
100	QPSK	1	271		21.80		
100	QPSK	135	0		21.90		22.7
100	QPSK	135	69		21.92		22.7
100	QPSK	135	138		21.79		22.7
100	QPSK	270	0		21.80		
100	16QAM	1	1		21.82		22.7
100	64QAM	1	1		21.75		22.7
100	256QAM	1	1		21.31		22.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.75	21.75	21.75	22.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.71	21.73	21.71	22.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.69	21.69	21.71	22.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.68	21.69	21.73	22.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.70	21.71	21.73	22.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.70	21.70	21.71	22.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.72	21.67	21.70	22.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.70	21.70	21.73	22.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.68	21.70	21.69	22.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.68	21.71	21.70	22.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.67	21.69	21.70	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.58		23.9
100	PI/2 BPSK	1	137		22.52		
100	PI/2 BPSK	1	271		22.51		
100	PI/2 BPSK	135	0		22.79		23.9
100	PI/2 BPSK	135	69		22.76		23.9
100	PI/2 BPSK	135	138		22.67		23.9
100	PI/2 BPSK	270	0		22.77		
100	QPSK	1	1		22.28		23.9
100	QPSK	1	137		22.32		
100	QPSK	1	271		22.25		
100	QPSK	135	0		22.65		23.9
100	QPSK	135	69		22.68		23.9
100	QPSK	135	138		22.64		23.9
100	QPSK	270	0		22.62		
100	16QAM	1	1		22.29		23.9
100	64QAM	1	1		22.30		23.9
100	256QAM	1	1		20.89		22.8
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.41	22.50	22.45	23.9
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.41	22.47	22.51	23.9
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.41	22.53	22.51	23.9
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.45	22.49	22.45	23.9
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.45	22.45	22.41	23.9
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.47	22.44	22.48	23.9
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.49	22.46	22.50	23.9
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.44	22.45	22.43	23.9
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.42	22.53	22.45	23.9
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.42	22.53	22.46	23.9
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.46	22.48	22.42	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.25		24.7
100	PI/2 BPSK	1	137		22.71		
100	PI/2 BPSK	1	271		22.93		
100	PI/2 BPSK	135	0		22.91		24.7
100	PI/2 BPSK	135	69		22.97		24.7
100	PI/2 BPSK	135	138		22.87		24.7
100	PI/2 BPSK	270	0		22.98		
100	QPSK	1	1		22.90		24.7
100	QPSK	1	137		22.83		
100	QPSK	1	271		22.75		
100	QPSK	135	0		22.72		24.7
100	QPSK	135	69		22.70		24.7
100	QPSK	135	138		22.71		24.7
100	QPSK	270	0		22.82		
100	16QAM	1	1		22.92		24.7
100	64QAM	1	1		22.69		24.6
100	256QAM	1	1		21.24		22.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.05	23.08	23.05	24.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.02	23.09	23.05	24.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.00	23.04	23.04	24.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.00	23.02	23.03	24.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.96	23.08	23.03	24.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.04	23.09	22.98	24.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.99	23.01	23.00	24.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.03	23.01	23.01	24.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.06	23.00	22.99	24.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.00	23.09	22.97	24.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.02	23.07	23.07	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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.58		23.9
100	PI/2 BPSK	1	137		22.52		
100	PI/2 BPSK	1	271		22.51		
100	PI/2 BPSK	135	0		22.79		23.9
100	PI/2 BPSK	135	69		22.76		23.9
100	PI/2 BPSK	135	138		22.67		23.9
100	PI/2 BPSK	270	0		22.77		
100	QPSK	1	1		22.28		23.9
100	QPSK	1	137		22.32		
100	QPSK	1	271		22.25		
100	QPSK	135	0		22.65		23.9
100	QPSK	135	69		22.68		23.9
100	QPSK	135	138		22.64		23.9
100	QPSK	270	0		22.62		
100	16QAM	1	1		22.29		23.9
100	64QAM	1	1		22.30		23.9
100	256QAM	1	1		20.89		22.8
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.41	22.50	22.45	23.9
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.41	22.47	22.51	23.9
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.41	22.53	22.51	23.9
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.45	22.49	22.45	23.9
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.45	22.45	22.41	23.9
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.47	22.44	22.48	23.9
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.49	22.46	22.50	23.9
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.44	22.45	22.43	23.9
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.42	22.53	22.45	23.9
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.42	22.53	22.46	23.9
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.46	22.48	22.42	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.85		22.7
100	PI/2 BPSK	1	137		21.28		
100	PI/2 BPSK	1	271		21.83		
100	PI/2 BPSK	135	0		21.94		22.7
100	PI/2 BPSK	135	69		21.95		22.7
100	PI/2 BPSK	135	138		21.81		22.7
100	PI/2 BPSK	270	0		21.82		
100	QPSK	1	1		21.83		22.7
100	QPSK	1	137		21.27		
100	QPSK	1	271		21.80		
100	QPSK	135	0		21.90		22.7
100	QPSK	135	69		21.92		22.7
100	QPSK	135	138		21.79		22.7
100	QPSK	270	0		21.80		
100	16QAM	1	1		21.82		22.7
100	64QAM	1	1		21.75		22.7
100	256QAM	1	1		21.31		22.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.75	21.75	21.75	22.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.71	21.73	21.71	22.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.69	21.69	21.71	22.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.68	21.69	21.73	22.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.70	21.71	21.73	22.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.70	21.70	21.71	22.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.72	21.67	21.70	22.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.70	21.70	21.73	22.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.68	21.70	21.69	22.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.68	21.71	21.70	22.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.67	21.69	21.70	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.93		25.7
100	PI/2 BPSK	1	137		23.92		
100	PI/2 BPSK	1	271		23.91		
100	PI/2 BPSK	135	0		23.88		25.2
100	PI/2 BPSK	135	69		24.38		25.7
100	PI/2 BPSK	135	138		23.81		25.2
100	PI/2 BPSK	270	0		23.82		
100	QPSK	1	1		23.85		25.7
100	QPSK	1	137		23.97		
100	QPSK	1	271		24.04		
100	QPSK	135	0		23.38		24.7
100	QPSK	135	69		24.34		25.7
100	QPSK	135	138		23.30		24.7
100	QPSK	270	0		23.29		
100	16QAM	1	1		22.87		24.7
100	64QAM	1	1		21.36		23.2
100	256QAM	1	1		19.42		21.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.87	23.92	23.89	25.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.86	23.87	23.88	25.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.77	23.90	23.84	25.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.77	23.89	23.82	25.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.78	23.91	23.88	25.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.78	23.90	23.88	25.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.84	23.84	23.83	25.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.85	23.85	23.81	25.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.77	23.86	23.84	25.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.86	23.90	23.84	25.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.77	23.82	23.88	25.7



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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		14.03		15.5
100	PI/2 BPSK	1	137		14.01		
100	PI/2 BPSK	1	271		13.92		
100	PI/2 BPSK	135	0		13.94		15.5
100	PI/2 BPSK	135	69		14.02		15.5
100	PI/2 BPSK	135	138		13.98		15.5
100	PI/2 BPSK	270	0		14.05		
100	QPSK	1	1		14.00		15.5
100	QPSK	1	137		13.92		
100	QPSK	1	271		13.89		
100	QPSK	135	0		13.84		15.5
100	QPSK	135	69		13.83		15.5
100	QPSK	135	138		13.78		15.5
100	QPSK	270	0		13.86		
100	16QAM	1	1		13.85		15.5
100	64QAM	1	1		13.91		15.5
100	256QAM	1	1		13.79		15.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.00	13.86	13.90	15.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.96	13.89	13.94	15.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.91	13.83	13.95	15.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.96	13.92	13.90	15.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.98	13.84	13.95	15.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.93	13.88	13.92	15.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.93	13.85	13.90	15.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	14.00	13.91	13.94	15.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.99	13.90	13.92	15.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.95	13.87	13.96	15.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.93	13.84	13.93	15.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.44		24.3
100	PI/2 BPSK	1	137		23.14		
100	PI/2 BPSK	1	271		23.38		
100	PI/2 BPSK	135	0		23.28		24.3
100	PI/2 BPSK	135	69		23.31		24.3
100	PI/2 BPSK	135	138		23.34		24.3
100	PI/2 BPSK	270	0		23.36		
100	QPSK	1	1		23.38		24.3
100	QPSK	1	137		23.09		
100	QPSK	1	271		23.35		
100	QPSK	135	0		23.27		24.2
100	QPSK	135	69		23.17		24.3
100	QPSK	135	138		23.36		24.2
100	QPSK	270	0		23.34		
100	16QAM	1	1		22.80		24.2
100	64QAM	1	1		21.26		22.7
100	256QAM	1	1		19.29		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.42	23.40	23.30	24.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.34	23.35	23.43	24.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.39	23.30	23.28	24.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.24	23.39	23.33	24.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.30	23.31	23.32	24.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.31	23.39	23.41	24.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.26	23.39	23.37	24.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.25	23.30	23.43	24.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.38	23.31	23.27	24.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.34	23.24	23.27	24.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.42	23.37	23.33	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		13.6
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		12.77		13.6
100	PI/2 BPSK	1	137		12.28		
100	PI/2 BPSK	1	271		12.99		13.6
100	PI/2 BPSK	135	0		12.93		
100	PI/2 BPSK	135	69		12.74		13.6
100	PI/2 BPSK	135	138		12.77		
100	PI/2 BPSK	270	0		12.87		13.6
100	QPSK	1	1		12.83		
100	QPSK	1	137		12.25		13.6
100	QPSK	1	271		12.97		
100	QPSK	135	0		12.92		13.6
100	QPSK	135	69		12.73		
100	QPSK	135	138		12.75		13.6
100	QPSK	270	0		12.86		
100	16QAM	1	1		12.80		13.6
100	64QAM	1	1		12.78		
100	256QAM	1	1		12.79		13.6
Channel				633000	633332	633666	13.6
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	12.66	12.65	12.68	13.6
Channel				632668	633332	634000	13.6
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	12.57	12.62	12.67	13.6
Channel				632334	633332	634332	13.6
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	12.76	12.65	12.70	13.6
Channel				632000	633332	634666	13.6
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	12.57	12.66	12.77	13.6
Channel				631668	633332	635000	13.6
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	12.61	12.71	12.73	13.6
Channel				631334	633332	635332	13.6
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	12.62	12.66	12.67	13.6
Channel				631000	633332	635666	13.6
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	12.70	12.60	12.61	13.6
Channel				630834	633332	635832	13.6
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	12.74	12.72	12.67	13.6
Channel				630668	633332	636000	13.6
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	12.64	12.58	12.75	13.6
Channel				630500	633332	636166	13.6
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	12.71	12.62	12.71	13.6
Channel				630334	633332	636332	13.6
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	12.64	12.72	12.69	13.6



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



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



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



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



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



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



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





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		18.6
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.05		18.6
100	PI/2 BPSK	1	137		16.89		
100	PI/2 BPSK	1	271		16.90		18.6
100	PI/2 BPSK	135	0		16.91		
100	PI/2 BPSK	135	69		16.88		18.6
100	PI/2 BPSK	135	138		16.84		
100	PI/2 BPSK	270	0		16.82		18.6
100	QPSK	1	1		16.95		
100	QPSK	1	137		16.86		18.6
100	QPSK	1	271		16.84		
100	QPSK	135	0		16.86		18.6
100	QPSK	135	69		16.73		
100	QPSK	135	138		16.75		18.6
100	QPSK	270	0		16.73		
100	16QAM	1	1		16.88		18.6
100	64QAM	1	1		16.94		
100	256QAM	1	1		16.86		18.6
Channel				633000	633332	633666	18.6
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.97	16.94	17.02	18.6
Channel				632668	633332	634000	18.6
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.95	16.91	16.92	18.6
Channel				632334	633332	634332	18.6
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.92	16.89	16.94	18.6
Channel				632000	633332	634666	18.6
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.96	16.90	16.92	18.6
Channel				631668	633332	635000	18.6
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.02	16.85	16.94	18.6
Channel				631334	633332	635332	18.6
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.94	16.94	17.02	18.6
Channel				631000	633332	635666	18.6
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.00	16.85	17.00	18.6
Channel				630834	633332	635832	18.6
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.01	16.91	16.95	18.6
Channel				630668	633332	636000	18.6
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.02	16.86	16.94	18.6
Channel				630500	633332	636166	18.6
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.93	16.90	16.97	18.6
Channel				630334	633332	636332	18.6
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.96	16.92	16.95	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.50		27.3
100	PI/2 BPSK	1	137		25.47		
100	PI/2 BPSK	1	271		25.41		
100	PI/2 BPSK	135	0		25.45		26.8
100	PI/2 BPSK	135	69		25.92		27.3
100	PI/2 BPSK	135	138		25.39		26.8
100	PI/2 BPSK	270	0		25.38		
100	QPSK	1	1		25.44		27.3
100	QPSK	1	137		25.48		
100	QPSK	1	271		25.46		
100	QPSK	135	0		24.92		26.3
100	QPSK	135	69		25.91		27.3
100	QPSK	135	138		24.87		26.3
100	QPSK	270	0		24.86		
100	16QAM	1	1		24.44		26.3
100	64QAM	1	1		22.89		24.8
100	256QAM	1	1		20.98		22.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.47	25.48	25.44	27.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.37	25.38	25.42	27.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.37	25.41	25.42	27.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.44	25.44	25.43	27.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.38	25.42	25.43	27.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.43	25.40	25.36	27.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.38	25.47	25.37	27.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.38	25.43	25.38	27.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.43	25.39	25.34	27.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.46	25.44	25.35	27.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.44	25.40	25.39	27.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		16.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.07		16.7
100	PI/2 BPSK	1	137		15.33		
100	PI/2 BPSK	1	271		15.99		16.7
100	PI/2 BPSK	135	0		16.21		
100	PI/2 BPSK	135	69		15.81		16.7
100	PI/2 BPSK	135	138		15.72		
100	PI/2 BPSK	270	0		15.81		16.7
100	QPSK	1	1		16.00		
100	QPSK	1	137		15.32		16.7
100	QPSK	1	271		15.81		
100	QPSK	135	0		15.83		16.7
100	QPSK	135	69		15.83		
100	QPSK	135	138		15.71		16.7
100	QPSK	270	0		15.79		
100	16QAM	1	1		16.02		16.7
100	64QAM	1	1		16.00		
100	256QAM	1	1		16.02		16.7
Channel				633000	633332	633666	16.7
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.91	15.86	15.84	16.7
Channel				632668	633332	634000	16.7
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.85	15.84	15.80	16.7
Channel				632334	633332	634332	16.7
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.88	15.84	15.78	16.7
Channel				632000	633332	634666	16.7
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.89	15.79	15.78	16.7
Channel				631668	633332	635000	16.7
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.88	15.83	15.81	16.7
Channel				631334	633332	635332	16.7
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.85	15.83	15.76	16.7
Channel				631000	633332	635666	16.7
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.88	15.84	15.76	16.7
Channel				630834	633332	635832	16.7
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.85	15.80	15.76	16.7
Channel				630668	633332	636000	16.7
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.85	15.81	15.77	16.7
Channel				630500	633332	636166	16.7
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.88	15.83	15.79	16.7
Channel				630334	633332	636332	16.7
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.89	15.83	15.76	16.7



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.05		22.7
100	PI/2 BPSK	1	137		21.35		
100	PI/2 BPSK	1	271		22.01		
100	PI/2 BPSK	135	0		21.86		22.7
100	PI/2 BPSK	135	69		21.88		22.7
100	PI/2 BPSK	135	138		21.81		22.7
100	PI/2 BPSK	270	0		21.90		
100	QPSK	1	1		22.01		22.7
100	QPSK	1	137		21.33		
100	QPSK	1	271		22.01		
100	QPSK	135	0		21.84		22.7
100	QPSK	135	69		21.85		22.7
100	QPSK	135	138		21.80		22.7
100	QPSK	270	0		21.88		
100	16QAM	1	1		22.01		22.7
100	64QAM	1	1		21.96		22.7
100	256QAM	1	1		21.36		22.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.80	21.82	21.77	22.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.78	21.78	21.74	22.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.74	21.80	21.69	22.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.72	21.80	21.73	22.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.77	21.74	21.73	22.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.73	21.76	21.75	22.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.76	21.75	21.70	22.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.73	21.76	21.71	22.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.74	21.79	21.69	22.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.74	21.80	21.74	22.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.72	21.76	21.69	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.53		23.9
100	PI/2 BPSK	1	137		22.51		
100	PI/2 BPSK	1	271		22.47		
100	PI/2 BPSK	135	0		22.80		23.9
100	PI/2 BPSK	135	69		22.80		23.9
100	PI/2 BPSK	135	138		22.71		23.9
100	PI/2 BPSK	270	0		22.73		
100	QPSK	1	1		22.26		23.9
100	QPSK	1	137		22.34		
100	QPSK	1	271		22.24		
100	QPSK	135	0		22.62		23.9
100	QPSK	135	69		22.66		23.9
100	QPSK	135	138		22.68		23.9
100	QPSK	270	0		22.66		
100	16QAM	1	1		22.33		23.9
100	64QAM	1	1		22.31		23.9
100	256QAM	1	1		20.81		22.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.35	22.45	22.44	23.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.35	22.46	22.42	23.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.36	22.44	22.45	23.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.37	22.43	22.42	23.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.39	22.45	22.44	23.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.38	22.47	22.43	23.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.37	22.46	22.43	23.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.38	22.44	22.40	23.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.40	22.44	22.40	23.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.39	22.47	22.45	23.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.40	22.45	22.42	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.21		24.7
100	PI/2 BPSK	1	137		22.71		
100	PI/2 BPSK	1	271		22.89		
100	PI/2 BPSK	135	0		23.02		24.7
100	PI/2 BPSK	135	69		22.95		24.7
100	PI/2 BPSK	135	138		22.78		24.7
100	PI/2 BPSK	270	0		23.09		
100	QPSK	1	1		23.01		24.7
100	QPSK	1	137		22.75		
100	QPSK	1	271		22.71		
100	QPSK	135	0		22.93		24.7
100	QPSK	135	69		22.76		24.7
100	QPSK	135	138		22.88		24.7
100	QPSK	270	0		22.88		
100	16QAM	1	1		22.93		24.7
100	64QAM	1	1		22.89		24.6
100	256QAM	1	1		21.35		22.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.95	22.97	23.02	24.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.95	22.99	22.96	24.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.00	23.06	22.99	24.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.00	23.04	23.05	24.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.95	23.07	23.04	24.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.04	23.03	23.06	24.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.97	23.04	23.02	24.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.06	22.97	23.02	24.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.06	23.01	23.04	24.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.97	23.05	23.01	24.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.03	23.07	23.02	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		22.53		23.9
100	PI/2 BPSK	1	137		22.51		
100	PI/2 BPSK	1	271		22.47		
100	PI/2 BPSK	135	0		22.80		23.9
100	PI/2 BPSK	135	69		22.80		23.9
100	PI/2 BPSK	135	138		22.71		23.9
100	PI/2 BPSK	270	0		22.73		
100	QPSK	1	1		22.26		23.9
100	QPSK	1	137		22.34		
100	QPSK	1	271		22.24		
100	QPSK	135	0		22.62		23.9
100	QPSK	135	69		22.66		23.9
100	QPSK	135	138		22.68		23.9
100	QPSK	270	0		22.66		
100	16QAM	1	1		22.33		23.9
100	64QAM	1	1		22.31		23.9
100	256QAM	1	1		20.81		22.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.35	22.45	22.44	23.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.35	22.46	22.42	23.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.36	22.44	22.45	23.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.37	22.43	22.42	23.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.39	22.45	22.44	23.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.38	22.47	22.43	23.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.37	22.46	22.43	23.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.38	22.44	22.40	23.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.40	22.44	22.40	23.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.39	22.47	22.45	23.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.40	22.45	22.42	23.9





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.05		22.7
100	PI/2 BPSK	1	137		21.35		
100	PI/2 BPSK	1	271		22.01		
100	PI/2 BPSK	135	0		21.86		22.7
100	PI/2 BPSK	135	69		21.88		22.7
100	PI/2 BPSK	135	138		21.81		22.7
100	PI/2 BPSK	270	0		21.90		
100	QPSK	1	1		22.01		22.7
100	QPSK	1	137		21.33		
100	QPSK	1	271		22.01		
100	QPSK	135	0		21.84		22.7
100	QPSK	135	69		21.85		22.7
100	QPSK	135	138		21.80		22.7
100	QPSK	270	0		21.88		
100	16QAM	1	1		22.01		22.7
100	64QAM	1	1		21.96		22.7
100	256QAM	1	1		21.36		22.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.80	21.82	21.77	22.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.78	21.78	21.74	22.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.74	21.80	21.69	22.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.72	21.80	21.73	22.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.77	21.74	21.73	22.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.73	21.76	21.75	22.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.76	21.75	21.70	22.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.73	21.76	21.71	22.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.74	21.79	21.69	22.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.74	21.80	21.74	22.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.72	21.76	21.69	22.7



TX1 Output Power

<FR1 n2\_Ant 0\_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.18	24.23	24.16	25.2
20	PI/2 BPSK	1	53	24.20	24.21	24.17	
20	PI/2 BPSK	1	104	24.06	24.07	24.00	
20	PI/2 BPSK	50	0	23.65	23.71	23.63	24.7
20	PI/2 BPSK	50	28	24.15	24.18	24.17	25.2
20	PI/2 BPSK	50	56	23.56	23.65	23.61	24.7
20	PI/2 BPSK	100	0	23.61	23.66	23.60	
20	QPSK	1	1	24.20	24.22	24.15	25.2
20	QPSK	1	53	24.19	24.20	24.12	
20	QPSK	1	104	23.98	24.03	23.98	
20	QPSK	50	0	23.19	23.25	23.15	24.2
20	QPSK	50	28	24.16	24.20	24.20	25.2
20	QPSK	50	56	23.07	23.13	23.05	24.2
20	QPSK	100	0	23.09	23.17	23.15	
20	16QAM	1	1	23.25	23.29	23.24	24.2
20	64QAM	1	1	21.97	21.98	21.90	22.7
20	256QAM	1	1	19.73	19.78	19.73	20.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.17	24.14	24.06	25.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.10	24.17	24.14	25.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.13	24.18	24.11	25.2



<FR1 n2\_Ant 0\_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.18	24.23	24.16	24.8
20	PI/2 BPSK	1	53	24.20	24.21	24.17	
20	PI/2 BPSK	1	104	24.06	24.07	24.00	
20	PI/2 BPSK	50	0	23.65	23.71	23.63	24.7
20	PI/2 BPSK	50	28	24.15	24.18	24.17	24.8
20	PI/2 BPSK	50	56	23.56	23.65	23.61	24.7
20	PI/2 BPSK	100	0	23.61	23.66	23.60	
20	QPSK	1	1	24.20	24.22	24.15	24.8
20	QPSK	1	53	24.19	24.20	24.12	
20	QPSK	1	104	23.98	24.03	23.98	
20	QPSK	50	0	23.19	23.25	23.15	24.2
20	QPSK	50	28	24.16	24.20	24.20	24.8
20	QPSK	50	56	23.07	23.13	23.05	24.2
20	QPSK	100	0	23.09	23.17	23.15	
20	16QAM	1	1	23.25	23.29	23.24	24.2
20	64QAM	1	1	21.97	21.98	21.90	22.7
20	256QAM	1	1	19.73	19.78	19.73	20.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.17	24.14	24.06	24.8
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.10	24.17	24.14	24.8
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.13	24.18	24.11	24.8



<FR1 n2\_Ant 0\_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.15	22.25	22.18	22.6
20	PI/2 BPSK	1	53	22.18	22.22	22.11	
20	PI/2 BPSK	1	104	21.95	22.13	22.01	
20	PI/2 BPSK	50	0	22.10	22.23	22.06	22.6
20	PI/2 BPSK	50	28	22.25	22.30	22.11	22.6
20	PI/2 BPSK	50	56	22.19	22.31	22.27	22.6
20	PI/2 BPSK	100	0	22.13	22.19	22.11	
20	QPSK	1	1	22.17	22.22	22.19	22.6
20	QPSK	1	53	22.10	22.15	22.11	
20	QPSK	1	104	22.10	22.07	22.12	
20	QPSK	50	0	22.06	22.20	22.13	22.6
20	QPSK	50	28	22.10	22.31	22.21	22.6
20	QPSK	50	56	22.17	22.27	22.13	22.6
20	QPSK	100	0	22.03	22.15	22.06	
20	16QAM	1	1	22.03	22.05	22.02	22.6
20	64QAM	1	1	21.50	21.62	21.61	22.6
20	256QAM	1	1	19.46	19.48	19.39	20.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	22.04	22.20	22.22	22.6
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	22.06	22.17	22.16	22.6
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	22.09	22.17	22.14	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				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.15	22.25	22.18	24.0
20	PI/2 BPSK	1	53	22.18	22.22	22.11	
20	PI/2 BPSK	1	104	21.95	22.13	22.01	
20	PI/2 BPSK	50	0	22.10	22.23	22.06	24.0
20	PI/2 BPSK	50	28	22.25	22.30	22.11	24.0
20	PI/2 BPSK	50	56	22.19	22.31	22.27	24.0
20	PI/2 BPSK	100	0	22.13	22.19	22.11	
20	QPSK	1	1	22.17	22.22	22.19	24.0
20	QPSK	1	53	22.10	22.15	22.11	
20	QPSK	1	104	22.10	22.07	22.12	
20	QPSK	50	0	22.06	22.20	22.13	24.0
20	QPSK	50	28	22.10	22.31	22.21	24.0
20	QPSK	50	56	22.17	22.27	22.13	24.0
20	QPSK	100	0	22.03	22.15	22.06	
20	16QAM	1	1	22.03	22.05	22.02	24.0
20	64QAM	1	1	21.50	21.62	21.61	22.7
20	256QAM	1	1	19.46	19.48	19.39	20.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	22.04	22.20	22.22	24.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	22.06	22.17	22.16	24.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	22.09	22.17	22.14	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				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.15	22.25	22.18	22.6
20	PI/2 BPSK	1	53	22.18	22.22	22.11	
20	PI/2 BPSK	1	104	21.95	22.13	22.01	
20	PI/2 BPSK	50	0	22.10	22.23	22.06	22.6
20	PI/2 BPSK	50	28	22.25	22.30	22.11	22.6
20	PI/2 BPSK	50	56	22.19	22.31	22.27	22.6
20	PI/2 BPSK	100	0	22.13	22.19	22.11	
20	QPSK	1	1	22.17	22.22	22.19	22.6
20	QPSK	1	53	22.10	22.15	22.11	
20	QPSK	1	104	22.10	22.07	22.12	
20	QPSK	50	0	22.06	22.20	22.13	22.6
20	QPSK	50	28	22.10	22.31	22.21	22.6
20	QPSK	50	56	22.17	22.27	22.13	22.6
20	QPSK	100	0	22.03	22.15	22.06	
20	16QAM	1	1	22.03	22.05	22.02	22.6
20	64QAM	1	1	21.50	21.62	21.61	22.6
20	256QAM	1	1	19.46	19.48	19.39	20.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	22.04	22.20	22.22	22.6
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	22.06	22.17	22.16	22.6
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	22.09	22.17	22.14	22.6



<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	19.88	19.94	19.91	21.5
20	PI/2 BPSK	1	53	19.82	19.90	19.87	
20	PI/2 BPSK	1	104	19.76	19.81	19.77	
20	PI/2 BPSK	50	0	19.75	19.83	19.79	21.5
20	PI/2 BPSK	50	28	19.81	19.86	19.82	21.5
20	PI/2 BPSK	50	56	19.77	19.85	19.81	21.5
20	PI/2 BPSK	100	0	19.75	19.83	19.81	
20	QPSK	1	1	19.82	19.89	19.87	21.5
20	QPSK	1	53	19.83	19.89	19.85	
20	QPSK	1	104	19.80	19.85	19.82	
20	QPSK	50	0	19.79	19.85	19.81	21.5
20	QPSK	50	28	19.77	19.85	19.80	21.5
20	QPSK	50	56	19.76	19.84	19.80	21.5
20	QPSK	100	0	19.78	19.83	19.79	
20	16QAM	1	1	19.85	19.90	19.86	21.5
20	64QAM	1	1	19.87	19.92	19.90	21.5
20	256QAM	1	1	19.59	19.65	19.60	20.7
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	19.83	19.84	19.85	21.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	19.83	19.87	19.83	21.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	19.79	19.84	19.84	21.5



<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	18.52	18.61	18.56	19.8
20	PI/2 BPSK	1	53	18.50	18.55	18.53	
20	PI/2 BPSK	1	104	18.42	18.47	18.40	
20	PI/2 BPSK	50	0	18.40	18.51	18.42	19.8
20	PI/2 BPSK	50	28	18.45	18.52	18.48	19.8
20	PI/2 BPSK	50	56	18.43	18.50	18.46	19.8
20	PI/2 BPSK	100	0	18.39	18.46	18.44	
20	QPSK	1	1	18.44	18.52	18.53	19.8
20	QPSK	1	53	18.47	18.52	18.51	
20	QPSK	1	104	18.45	18.47	18.49	
20	QPSK	50	0	18.44	18.51	18.45	19.8
20	QPSK	50	28	18.41	18.47	18.44	19.8
20	QPSK	50	56	18.39	18.49	18.42	19.8
20	QPSK	100	0	18.41	18.49	18.43	
20	16QAM	1	1	18.49	18.56	18.49	19.8
20	64QAM	1	1	18.49	18.57	18.57	19.8
20	256QAM	1	1	18.21	18.27	18.25	19.8
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	18.49	18.58	18.51	19.8
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	18.45	18.53	18.50	19.8
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	18.44	18.59	18.52	19.8





<FR1 n5\_Ant 1\_Index 4>

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



<FR1 n5\_Ant 1\_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.60	24.67	24.62	25.2
20	PI/2 BPSK	1	53	24.55	24.64	24.61	
20	PI/2 BPSK	1	104	24.47	24.55	24.51	
20	PI/2 BPSK	50	0	23.98	24.08	24.05	24.7
20	PI/2 BPSK	50	28	24.56	24.62	24.52	25.2
20	PI/2 BPSK	50	56	24.04	24.11	24.09	24.7
20	PI/2 BPSK	100	0	24.07	24.10	24.04	
20	QPSK	1	1	24.51	24.60	24.52	25.2
20	QPSK	1	53	24.58	24.64	24.55	
20	QPSK	1	104	24.52	24.56	24.54	
20	QPSK	50	0	23.53	23.59	23.49	24.2
20	QPSK	50	28	24.52	24.61	24.51	25.2
20	QPSK	50	56	23.57	23.62	23.62	24.2
20	QPSK	100	0	23.53	23.61	23.56	
20	16QAM	1	1	23.28	23.32	23.23	24.2
20	64QAM	1	1	21.98	22.05	22.02	22.7
20	256QAM	1	1	20.03	20.07	20.05	20.7
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.52	24.60	24.62	25.2
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.60	24.57	24.56	25.2
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.58	24.61	24.52	25.2



<FR1 n5\_Ant 1\_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	21.93	21.98	21.86	23.1
20	PI/2 BPSK	1	53	21.82	21.92	21.88	
20	PI/2 BPSK	1	104	21.91	21.94	21.92	
20	PI/2 BPSK	50	0	21.76	21.87	21.86	23.1
20	PI/2 BPSK	50	28	21.81	21.95	21.87	23.1
20	PI/2 BPSK	50	56	21.88	21.94	21.93	23.1
20	PI/2 BPSK	100	0	21.77	21.93	21.89	
20	QPSK	1	1	21.94	21.90	21.88	23.1
20	QPSK	1	53	21.83	21.88	21.77	
20	QPSK	1	104	21.88	21.95	21.93	
20	QPSK	50	0	21.94	21.92	21.92	23.1
20	QPSK	50	28	21.88	21.98	21.88	23.1
20	QPSK	50	56	21.90	21.86	21.86	23.1
20	QPSK	100	0	21.83	21.88	21.81	
20	16QAM	1	1	21.86	21.88	21.86	23.1
20	64QAM	1	1	21.87	21.86	21.76	22.7
20	256QAM	1	1	19.85	19.91	19.86	20.7
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	21.85	21.94	21.77	23.1
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	21.84	21.92	21.81	23.1
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	21.87	21.95	21.79	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				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.40	24.47	24.42	25.2
50	PI/2 BPSK	1	135	24.34	24.44	24.40	
50	PI/2 BPSK	1	268	24.21	24.21	24.14	
50	PI/2 BPSK	135	0	23.78	23.79	23.77	24.7
50	PI/2 BPSK	135	68	24.32	24.33	24.31	25.2
50	PI/2 BPSK	135	135	23.77	23.80	23.75	24.7
50	PI/2 BPSK	270	0	23.78	23.84	23.81	
50	QPSK	1	1	24.35	24.37	24.35	25.2
50	QPSK	1	135	24.39	24.41	24.33	
50	QPSK	1	268	24.26	24.28	24.21	
50	QPSK	135	0	23.21	23.31	23.23	24.2
50	QPSK	135	68	24.29	24.33	24.28	25.2
50	QPSK	135	135	23.20	23.28	23.26	24.2
50	QPSK	270	0	23.31	23.38	23.31	
50	16QAM	1	1	23.18	23.18	23.17	24.2
50	64QAM	1	1	22.02	22.10	22.01	22.7
50	256QAM	1	1	19.62	19.71	19.70	20.7
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	24.32	24.39	24.39	25.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	24.33	24.45	24.34	25.2
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	24.30	24.46	24.37	25.2
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	24.39	24.43	24.37	25.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	24.39	24.42	24.32	25.2
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	24.38	24.41	24.32	25.2
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	24.39	24.45	24.42	25.2



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



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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	19.94	19.96	19.94	
50	PI/2 BPSK	1	135	19.91	19.93	19.91	20.6
50	PI/2 BPSK	1	268	19.80	19.82	19.80	
50	PI/2 BPSK	135	0	19.79	19.81	19.79	20.6
50	PI/2 BPSK	135	68	19.83	19.85	19.83	20.6
50	PI/2 BPSK	135	135	19.75	19.77	19.75	20.6
50	PI/2 BPSK	270	0	19.83	19.85	19.83	
50	QPSK	1	1	19.91	19.93	19.91	20.6
50	QPSK	1	135	19.89	19.91	19.89	
50	QPSK	1	268	19.77	19.79	19.77	
50	QPSK	135	0	19.78	19.80	19.78	20.6
50	QPSK	135	68	19.80	19.82	19.80	20.6
50	QPSK	135	135	19.73	19.75	19.73	20.6
50	QPSK	270	0	19.79	19.81	19.79	
50	16QAM	1	1	19.91	19.93	19.91	20.6
50	64QAM	1	1	19.89	19.91	19.89	20.6
50	256QAM	1	1	19.60	19.63	19.61	20.6
Channel				504000	507000	20	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	19.80	19.86	19.84	20.6
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	19.88	19.81	19.83	20.6
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	19.85	19.87	19.82	20.6
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	19.87	19.81	19.84	20.6
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	19.83	19.84	19.88	20.6
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	19.86	19.89	19.87	20.6
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	19.89	19.82	19.84	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				505000	507000	509000	23.6
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	22.15	22.18	22.10	
50	PI/2 BPSK	1	135	22.05	22.17	22.03	23.6
50	PI/2 BPSK	1	268	22.11	22.15	22.10	
50	PI/2 BPSK	135	0	22.11	22.15	22.00	23.6
50	PI/2 BPSK	135	68	22.10	22.20	22.05	23.6
50	PI/2 BPSK	135	135	22.03	22.18	22.08	23.6
50	PI/2 BPSK	270	0	22.21	22.25	22.16	
50	QPSK	1	1	22.09	22.13	21.98	23.6
50	QPSK	1	135	21.96	22.11	21.97	
50	QPSK	1	268	21.98	22.06	21.99	
50	QPSK	135	0	22.08	22.12	21.97	23.6
50	QPSK	135	68	22.01	22.16	22.12	23.6
50	QPSK	135	135	22.02	22.15	22.00	23.6
50	QPSK	270	0	22.20	22.22	22.15	
50	16QAM	1	1	22.11	22.20	22.19	23.6
50	64QAM	1	1	21.70	21.80	21.68	22.7
50	256QAM	1	1	19.56	19.65	19.58	20.7
Channel				504000	507000	510000	23.6
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	22.11	22.06	22.07	23.6
Channel				503000	507000	511000	23.6
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	22.01	22.12	21.99	23.6
Channel				502500	507000	511500	23.6
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	22.02	22.12	22.03	23.6
Channel				502000	507000	512000	23.6
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	22.10	22.08	22.02	23.6
Channel				501500	507000	512500	23.6
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	22.00	22.06	22.04	23.6
Channel				501000	507000	513000	23.6
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	22.04	22.15	21.97	23.6
Channel				500500	507000	513500	23.6
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	22.05	22.07	22.06	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				505000	507000	509000	20.6
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	19.94	19.96	19.94	
50	PI/2 BPSK	1	135	19.91	19.93	19.91	20.6
50	PI/2 BPSK	1	268	19.80	19.82	19.80	
50	PI/2 BPSK	135	0	19.79	19.81	19.79	20.6
50	PI/2 BPSK	135	68	19.83	19.85	19.83	20.6
50	PI/2 BPSK	135	135	19.75	19.77	19.75	20.6
50	PI/2 BPSK	270	0	19.83	19.85	19.83	
50	QPSK	1	1	19.91	19.93	19.91	20.6
50	QPSK	1	135	19.89	19.91	19.89	
50	QPSK	1	268	19.77	19.79	19.77	
50	QPSK	135	0	19.78	19.80	19.78	20.6
50	QPSK	135	68	19.80	19.82	19.80	20.6
50	QPSK	135	135	19.73	19.75	19.73	20.6
50	QPSK	270	0	19.79	19.81	19.79	
50	16QAM	1	1	19.91	19.93	19.91	20.6
50	64QAM	1	1	19.89	19.91	19.89	20.6
50	256QAM	1	1	19.60	19.63	19.61	20.6
Channel				504000	507000	20	20.6
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	19.80	19.86	19.84	20.6
Channel				503000	507000	511000	20.6
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	19.88	19.81	19.83	20.6
Channel				502500	507000	511500	20.6
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	19.85	19.87	19.82	20.6
Channel				502000	507000	512000	20.6
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	19.87	19.81	19.84	20.6
Channel				501500	507000	512500	20.6
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	19.83	19.84	19.88	20.6
Channel				501000	507000	513000	20.6
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	19.86	19.89	19.87	20.6
Channel				500500	507000	513500	20.6
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	19.89	19.82	19.84	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				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	20.43	20.47	20.39	22.1
15	PI/2 BPSK	1	40	20.35	20.39	20.34	
15	PI/2 BPSK	1	77	20.37	20.42	20.37	
15	PI/2 BPSK	36	0	20.34	20.38	20.33	22.1
15	PI/2 BPSK	36	22	20.41	20.46	20.39	22.1
15	PI/2 BPSK	36	43	20.40	20.45	20.38	22.1
15	PI/2 BPSK	75	0	20.41	20.46	20.39	
15	QPSK	1	1	20.40	20.45	20.37	22.1
15	QPSK	1	40	20.41	20.43	20.35	
15	QPSK	1	77	20.40	20.45	20.39	
15	QPSK	36	0	20.35	20.37	20.32	22.1
15	QPSK	36	22	20.39	20.43	20.35	22.1
15	QPSK	36	43	20.37	20.41	20.33	22.1
15	QPSK	75	0	20.41	20.43	20.36	
15	16QAM	1	1	20.33	20.38	20.32	22.1
15	64QAM	1	1	20.39	20.42	20.37	22.1
15	256QAM	1	1	19.37	19.42	19.34	20.7
Channel				140800	141500	142200	
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	20.34	20.39	20.32	22.1
Channel				140300	141500	142700	
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	20.37	20.38	20.30	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				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	20.43	20.47	20.39	20.5
15	PI/2 BPSK	1	40	20.35	20.39	20.34	
15	PI/2 BPSK	1	77	20.37	20.42	20.37	
15	PI/2 BPSK	36	0	20.34	20.38	20.33	20.5
15	PI/2 BPSK	36	22	20.41	20.46	20.39	20.5
15	PI/2 BPSK	36	43	20.40	20.45	20.38	20.5
15	PI/2 BPSK	75	0	20.41	20.46	20.39	
15	QPSK	1	1	20.40	20.45	20.37	20.5
15	QPSK	1	40	20.41	20.43	20.35	
15	QPSK	1	77	20.40	20.45	20.39	
15	QPSK	36	0	20.35	20.37	20.32	20.5
15	QPSK	36	22	20.39	20.43	20.35	20.5
15	QPSK	36	43	20.37	20.41	20.33	20.5
15	QPSK	75	0	20.41	20.43	20.36	
15	16QAM	1	1	20.33	20.38	20.32	20.5
15	64QAM	1	1	20.39	20.42	20.37	20.5
15	256QAM	1	1	19.37	19.42	19.34	20.3
Channel				140800	141500	142200	
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	20.34	20.39	20.32	20.5
Channel				140300	141500	142700	
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	20.37	20.38	20.30	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				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.00	24.02	23.94	25.2
15	PI/2 BPSK	1	40	23.88	23.93	23.88	
15	PI/2 BPSK	1	77	23.98	24.00	23.91	
15	PI/2 BPSK	36	0	23.42	23.43	23.38	24.7
15	PI/2 BPSK	36	22	23.90	23.98	23.92	25.2
15	PI/2 BPSK	36	43	23.56	23.56	23.53	24.7
15	PI/2 BPSK	75	0	23.43	23.50	23.49	
15	QPSK	1	1	23.95	23.98	23.90	25.2
15	QPSK	1	40	23.95	23.95	23.90	
15	QPSK	1	77	23.97	24.00	23.93	
15	QPSK	36	0	22.85	22.94	22.93	24.2
15	QPSK	36	22	23.95	24.00	23.94	25.2
15	QPSK	36	43	23.00	23.05	23.05	24.2
15	QPSK	75	0	22.92	23.02	22.93	
15	16QAM	1	1	22.82	22.92	22.92	24.2
15	64QAM	1	1	21.64	21.65	21.61	22.7
	256QAM	1	1	19.33	19.40	19.40	20.7
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.91	23.96	23.90	25.2
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.98	24.00	23.93	25.2

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



<FR1 n12\_Ant 1\_Index 6>

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



**<FR1 n14\_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					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		20.65		22.3
10	PI/2 BPSK	1	26		20.64		
10	PI/2 BPSK	1	50		20.58		
10	PI/2 BPSK	25	0		20.54		22.3
10	PI/2 BPSK	25	14		20.63		22.3
10	PI/2 BPSK	25	27		20.61		22.3
10	PI/2 BPSK	50	0		20.60		
10	QPSK	1	1		20.58		22.3
10	QPSK	1	26		20.58		
10	QPSK	1	50		20.54		
10	QPSK	25	0		20.58		22.3
10	QPSK	25	14		20.59		22.3
10	QPSK	25	27		20.58		22.3
10	QPSK	50	0		20.60		
10	16QAM	1	1		20.49		22.3
10	64QAM	1	1		20.63		22.3
10	256QAM	1	1		20.02		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	20.61	20.63	20.59	22.3

**<FR1 n14\_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					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		20.65		21.1
10	PI/2 BPSK	1	26		20.64		
10	PI/2 BPSK	1	50		20.58		
10	PI/2 BPSK	25	0		20.54		21.1
10	PI/2 BPSK	25	14		20.63		21.1
10	PI/2 BPSK	25	27		20.61		21.1
10	PI/2 BPSK	50	0		20.60		
10	QPSK	1	1		20.58		21.1
10	QPSK	1	26		20.58		
10	QPSK	1	50		20.54		
10	QPSK	25	0		20.58		21.1
10	QPSK	25	14		20.59		21.1
10	QPSK	25	27		20.58		21.1
10	QPSK	50	0		20.60		
10	16QAM	1	1		20.49		21.1
10	64QAM	1	1		20.63		21.1
10	256QAM	1	1		20.02		21.1
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	20.61	20.63	20.59	21.1



**<FR1 n14\_Ant 1\_Index 4>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		23.07		24.0
10	PI/2 BPSK	1	26		22.96		
10	PI/2 BPSK	1	50		22.92		
10	PI/2 BPSK	25	0		22.50		24.0
10	PI/2 BPSK	25	14		22.96		24.0
10	PI/2 BPSK	25	27		22.95		24.0
10	PI/2 BPSK	50	0		22.95		
10	QPSK	1	1		22.96		24.0
10	QPSK	1	26		22.95		
10	QPSK	1	50		22.94		
10	QPSK	25	0		22.95		24.0
10	QPSK	25	14		22.96		24.0
10	QPSK	25	27		22.91		24.0
10	QPSK	50	0		22.90		
10	16QAM	1	1		22.95		24.0
10	64QAM	1	1		21.99		23.2
10	256QAM	1	1		20.21		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	22.95	22.90	22.89	24.0

**<FR1 n14\_Ant 1\_Index 5>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.69		25.7
10	PI/2 BPSK	1	26		24.68		
10	PI/2 BPSK	1	50		24.57		
10	PI/2 BPSK	25	0		24.03		25.2
10	PI/2 BPSK	25	14		24.54		25.7
10	PI/2 BPSK	25	27		24.07		25.2
10	PI/2 BPSK	50	0		24.05		
10	QPSK	1	1		24.53		25.7
10	QPSK	1	26		24.64		
10	QPSK	1	50		24.55		
10	QPSK	25	0		23.56		24.7
10	QPSK	25	14		24.55		25.7
10	QPSK	25	27		23.52		24.7
10	QPSK	50	0		23.56		
10	16QAM	1	1		23.59		24.7
10	64QAM	1	1		22.05		23.2
10	256QAM	1	1		20.23		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.62	24.65	24.61	25.7



<FR1 n14\_Ant 1\_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		23.07		24.0
10	PI/2 BPSK	1	26		22.96		
10	PI/2 BPSK	1	50		22.92		
10	PI/2 BPSK	25	0		22.50		24.0
10	PI/2 BPSK	25	14		22.96		24.0
10	PI/2 BPSK	25	27		22.95		24.0
10	PI/2 BPSK	50	0		22.95		
10	QPSK	1	1		22.96		24.0
10	QPSK	1	26		22.95		
10	QPSK	1	50		22.94		
10	QPSK	25	0		22.95		24.0
10	QPSK	25	14		22.96		24.0
10	QPSK	25	27		22.91		24.0
10	QPSK	50	0		22.90		
10	16QAM	1	1		22.95		24.0
10	64QAM	1	1		21.99		23.2
10	256QAM	1	1		20.21		21.2
Channel				158100	158600		Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	22.95	22.90	22.89	24.0



<FR1 n25\_Ant 0\_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	25.2
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	24.26	24.30	24.20	25.2
40	PI/2 BPSK	1	108	24.19	24.29	24.19	
40	PI/2 BPSK	1	214	23.93	23.97	23.94	
40	PI/2 BPSK	108	0	23.64	23.66	23.59	24.7
40	PI/2 BPSK	108	54	24.14	24.17	24.13	25.2
40	PI/2 BPSK	108	108	23.59	23.59	23.53	24.7
40	PI/2 BPSK	216	0	23.60	23.63	23.57	
40	QPSK	1	1	24.21	24.28	24.24	25.2
40	QPSK	1	108	24.25	24.26	24.22	
40	QPSK	1	214	23.96	23.98	23.94	
40	QPSK	108	0	23.13	23.16	23.12	24.2
40	QPSK	108	54	24.14	24.16	24.08	25.2
40	QPSK	108	108	23.04	23.12	23.12	24.2
40	QPSK	216	0	23.06	23.15	23.09	
40	16QAM	1	1	23.21	23.27	23.23	24.2
40	64QAM	1	1	21.70	21.70	21.65	22.7
40	256QAM	1	1	19.43	19.46	19.46	20.7
Channel				373000	376500	380000	25.2
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	24.21	24.20	24.15	25.2
Channel				372500	376500	380500	25.2
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	24.21	24.26	24.20	25.2
Channel				372000	376500	381000	25.2
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	24.19	24.20	24.16	25.2
Channel				371500	376500	381500	25.2
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	24.21	24.20	24.20	25.2
Channel				371000	376500	382000	25.2
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	24.23	24.20	24.17	25.2
Channel				370500	376500	382500	25.2
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	24.19	24.29	24.20	25.2



<FR1 n25\_Ant 0\_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	Tune-up limit (dBm)
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	24.26	24.30	24.20	24.3
40	PI/2 BPSK	1	108	24.19	24.29	24.19	
40	PI/2 BPSK	1	214	23.93	23.97	23.94	
40	PI/2 BPSK	108	0	23.64	23.66	23.59	24.3
40	PI/2 BPSK	108	54	24.14	24.17	24.13	24.3
40	PI/2 BPSK	108	108	23.59	23.59	23.53	24.3
40	PI/2 BPSK	216	0	23.60	23.63	23.57	
40	QPSK	1	1	24.21	24.28	24.24	24.3
40	QPSK	1	108	24.25	24.26	24.22	
40	QPSK	1	214	23.96	23.98	23.94	
40	QPSK	108	0	23.13	23.16	23.12	24.2
40	QPSK	108	54	24.14	24.16	24.08	24.3
40	QPSK	108	108	23.04	23.12	23.12	24.2
40	QPSK	216	0	23.06	23.15	23.09	
40	16QAM	1	1	23.21	23.27	23.23	24.2
40	64QAM	1	1	21.70	21.70	21.65	22.7
40	256QAM	1	1	19.43	19.46	19.46	20.7
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	24.21	24.20	24.15	24.3
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	24.21	24.26	24.20	24.3
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	24.19	24.20	24.16	24.3
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	24.21	24.20	24.20	24.3
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	24.23	24.20	24.17	24.3
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	24.19	24.29	24.20	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				374000	376500	379000	22.6
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	22.32	22.41	22.28	22.6
40	PI/2 BPSK	1	108	22.29	22.40	22.27	
40	PI/2 BPSK	1	214	22.09	22.24	22.14	22.6
40	PI/2 BPSK	108	0	22.26	22.38	22.24	
40	PI/2 BPSK	108	54	22.38	22.41	22.29	22.6
40	PI/2 BPSK	108	108	22.35	22.40	22.35	
40	PI/2 BPSK	216	0	22.23	22.36	22.25	22.6
40	QPSK	1	1	22.25	22.31	22.27	
40	QPSK	1	108	22.24	22.28	22.20	22.6
40	QPSK	1	214	22.04	22.17	22.09	
40	QPSK	108	0	22.20	22.27	22.21	22.6
40	QPSK	108	54	22.24	22.36	22.26	
40	QPSK	108	108	22.29	22.32	22.24	22.6
40	QPSK	216	0	22.10	22.21	22.06	
40	16QAM	1	1	22.04	22.15	22.07	22.6
40	64QAM	1	1	21.62	21.72	21.66	
40	256QAM	1	1	19.51	19.55	19.52	20.7
Channel				373000	376500	380000	22.6
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	22.12	22.29	22.06	22.6
Channel				372500	376500	380500	
Frequency (MHz)				1862.5	1882.5	1902.5	22.6
25	PI/2 BPSK	1	1	22.13	22.27	22.10	
Channel				372000	376500	381000	22.6
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	22.10	22.35	22.11	22.6
Channel				371500	376500	381500	
Frequency (MHz)				1857.5	1882.5	1907.5	22.6
15	PI/2 BPSK	1	1	22.23	22.20	22.15	
Channel				371000	376500	382000	22.6
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	22.25	22.26	22.19	22.6
Channel				370500	376500	382500	
Frequency (MHz)				1852.5	1882.5	1912.5	22.6
5	PI/2 BPSK	1	1	22.18	22.35	22.15	



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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	22.32	22.41	22.28	24.0
40	PI/2 BPSK	1	108	22.29	22.40	22.27	
40	PI/2 BPSK	1	214	22.09	22.24	22.14	
40	PI/2 BPSK	108	0	22.26	22.38	22.24	24.0
40	PI/2 BPSK	108	54	22.38	22.41	22.29	24.0
40	PI/2 BPSK	108	108	22.35	22.40	22.35	24.0
40	PI/2 BPSK	216	0	22.23	22.36	22.25	
40	QPSK	1	1	22.25	22.31	22.27	24.0
40	QPSK	1	108	22.24	22.28	22.20	
40	QPSK	1	214	22.04	22.17	22.09	
40	QPSK	108	0	22.20	22.27	22.21	24.0
40	QPSK	108	54	22.24	22.36	22.26	24.0
40	QPSK	108	108	22.29	22.32	22.24	24.0
40	QPSK	216	0	22.10	22.21	22.06	
40	16QAM	1	1	22.04	22.15	22.07	24.0
40	64QAM	1	1	21.62	21.72	21.66	22.7
40	256QAM	1	1	19.51	19.55	19.52	20.7
Channel				373000	376500	380000	24.0
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	22.12	22.29	22.06	24.0
Channel				372500	376500	380500	24.0
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	22.13	22.27	22.10	24.0
Channel				372000	376500	381000	24.0
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	22.10	22.35	22.11	24.0
Channel				371500	376500	381500	24.0
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	22.23	22.20	22.15	24.0
Channel				371000	376500	382000	24.0
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	22.25	22.26	22.19	24.0
Channel				370500	376500	382500	24.0
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	22.18	22.35	22.15	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	22.6
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	22.32	22.41	22.28	22.6
40	PI/2 BPSK	1	108	22.29	22.40	22.27	
40	PI/2 BPSK	1	214	22.09	22.24	22.14	22.6
40	PI/2 BPSK	108	0	22.26	22.38	22.24	
40	PI/2 BPSK	108	54	22.38	22.41	22.29	22.6
40	PI/2 BPSK	108	108	22.35	22.40	22.35	
40	PI/2 BPSK	216	0	22.23	22.36	22.25	22.6
40	QPSK	1	1	22.25	22.31	22.27	
40	QPSK	1	108	22.24	22.28	22.20	22.6
40	QPSK	1	214	22.04	22.17	22.09	
40	QPSK	108	0	22.20	22.27	22.21	22.6
40	QPSK	108	54	22.24	22.36	22.26	
40	QPSK	108	108	22.29	22.32	22.24	22.6
40	QPSK	216	0	22.10	22.21	22.06	
40	16QAM	1	1	22.04	22.15	22.07	22.6
40	64QAM	1	1	21.62	21.72	21.66	
40	256QAM	1	1	19.51	19.55	19.52	20.7
Channel				373000	376500	380000	22.6
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	22.12	22.29	22.06	22.6
Channel				372500	376500	380500	
Frequency (MHz)				1862.5	1882.5	1902.5	22.6
25	PI/2 BPSK	1	1	22.13	22.27	22.10	
Channel				372000	376500	381000	22.6
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	22.10	22.35	22.11	22.6
Channel				371500	376500	381500	
Frequency (MHz)				1857.5	1882.5	1907.5	22.6
15	PI/2 BPSK	1	1	22.23	22.20	22.15	
Channel				371000	376500	382000	22.6
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	22.25	22.26	22.19	22.6
Channel				370500	376500	382500	
Frequency (MHz)				1852.5	1882.5	1912.5	22.6
5	PI/2 BPSK	1	1	22.18	22.35	22.15	



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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	19.83	19.90	19.87	21.5
20	PI/2 BPSK	1	53	19.81	19.88	19.83	
20	PI/2 BPSK	1	104	19.72	19.78	19.76	
20	PI/2 BPSK	50	0	19.72	19.77	19.75	21.5
20	PI/2 BPSK	50	28	19.77	19.85	19.80	21.5
20	PI/2 BPSK	50	56	19.73	19.79	19.75	21.5
20	PI/2 BPSK	100	0	19.72	19.78	19.75	
20	QPSK	1	1	19.66	19.72	19.67	21.5
20	QPSK	1	53	19.73	19.81	19.76	
20	QPSK	1	104	19.61	19.69	19.64	
20	QPSK	50	0	19.73	19.81	19.76	21.5
20	QPSK	50	28	19.73	19.80	19.76	21.5
20	QPSK	50	56	19.75	19.82	19.80	21.5
20	QPSK	100	0	19.73	19.81	19.78	
20	16QAM	1	1	19.57	19.65	19.63	21.5
20	64QAM	1	1	19.82	19.89	19.86	21.5
20	256QAM	1	1	19.66	19.73	19.71	20.7
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	19.73	19.84	19.81	21.5
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	19.76	19.80	19.82	21.5
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	19.73	19.84	19.82	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				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	18.39	18.59	18.49	19.8
20	PI/2 BPSK	1	53	18.45	18.51	18.45	
20	PI/2 BPSK	1	104	18.30	18.36	18.42	
20	PI/2 BPSK	50	0	18.33	18.34	18.39	19.8
20	PI/2 BPSK	50	28	18.35	18.46	18.45	19.8
20	PI/2 BPSK	50	56	18.32	18.38	18.37	19.8
20	PI/2 BPSK	100	0	18.28	18.42	18.41	
20	QPSK	1	1	18.29	18.38	18.34	19.8
20	QPSK	1	53	18.35	18.44	18.44	
20	QPSK	1	104	18.19	18.29	18.29	
20	QPSK	50	0	18.36	18.39	18.43	19.8
20	QPSK	50	28	18.31	18.39	18.39	19.8
20	QPSK	50	56	18.36	18.36	18.45	19.8
20	QPSK	100	0	18.30	18.41	18.40	
20	16QAM	1	1	18.18	18.25	18.28	19.8
20	64QAM	1	1	18.43	18.50	18.49	19.8
20	256QAM	1	1	18.28	18.29	18.36	19.8
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	18.37	18.55	18.47	19.8
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	18.35	18.53	18.46	19.8
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	18.37	18.56	18.42	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				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	21.97	22.02	21.93	23.1
20	PI/2 BPSK	1	53	21.90	22.00	21.93	
20	PI/2 BPSK	1	104	21.97	22.01	21.99	
20	PI/2 BPSK	50	0	21.84	21.93	21.89	23.1
20	PI/2 BPSK	50	28	21.89	21.99	21.96	23.1
20	PI/2 BPSK	50	56	21.91	21.98	21.95	23.1
20	PI/2 BPSK	100	0	21.87	21.97	21.92	
20	QPSK	1	1	21.98	22.00	21.94	23.1
20	QPSK	1	53	21.91	21.96	21.85	
20	QPSK	1	104	21.96	21.99	21.96	
20	QPSK	50	0	21.97	22.01	21.94	23.1
20	QPSK	50	28	21.93	22.00	21.93	23.1
20	QPSK	50	56	21.94	21.96	21.90	23.1
20	QPSK	100	0	21.92	21.98	21.88	
20	16QAM	1	1	21.93	21.96	21.89	23.1
20	64QAM	1	1	21.91	21.94	21.85	22.7
20	256QAM	1	1	19.92	19.95	19.90	20.7
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	21.85	21.87	21.90	23.1
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	21.91	21.94	21.87	23.1
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	21.93	21.89	21.84	23.1



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



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





**<FR1 n30\_Ant 0\_Index 2>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.33		25.2
10	PI/2 BPSK	1	26		24.30		
10	PI/2 BPSK	1	50		24.02		
10	PI/2 BPSK	25	0		21.87		23.2
10	PI/2 BPSK	25	14		24.19		25.2
10	PI/2 BPSK	25	27		21.63		23.2
10	PI/2 BPSK	50	0		21.77		
10	QPSK	1	1		24.19		25.2
10	QPSK	1	26		24.08		
10	QPSK	1	50		24.09		
10	QPSK	25	0		20.76		22.7
10	QPSK	25	14		24.15		25.2
10	QPSK	25	27		20.71		22.7
10	QPSK	50	0		20.75		
10	16QAM	1	1		23.33		24.2
10	64QAM	1	1		21.82		22.7
10	256QAM	1	1		19.75		20.7
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	24.25	24.30	24.24	25.2

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.33		25.2
10	PI/2 BPSK	1	26		24.30		
10	PI/2 BPSK	1	50		24.02		
10	PI/2 BPSK	25	0		21.87		23.2
10	PI/2 BPSK	25	14		24.19		25.2
10	PI/2 BPSK	25	27		21.63		23.2
10	PI/2 BPSK	50	0		21.77		
10	QPSK	1	1		24.19		25.2
10	QPSK	1	26		24.08		
10	QPSK	1	50		24.09		
10	QPSK	25	0		20.76		22.7
10	QPSK	25	14		24.15		25.2
10	QPSK	25	27		20.71		22.7
10	QPSK	50	0		20.75		
10	16QAM	1	1		23.33		24.2
10	64QAM	1	1		21.82		22.7
10	256QAM	1	1		19.75		20.7
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	24.25	24.30	24.24	25.2



**<FR1 n30\_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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		22.91		24.0
10	PI/2 BPSK	1	26		22.89		
10	PI/2 BPSK	1	50		22.73		
10	PI/2 BPSK	25	0		21.63		23.2
10	PI/2 BPSK	25	14		22.71		24.0
10	PI/2 BPSK	25	27		21.52		23.2
10	PI/2 BPSK	50	0		21.55		
10	QPSK	1	1		22.86		24.0
10	QPSK	1	26		22.83		
10	QPSK	1	50		22.69		
10	QPSK	25	0		20.72		22.7
10	QPSK	25	14		22.70		24.0
10	QPSK	25	27		20.70		22.7
10	QPSK	50	0		20.71		
10	16QAM	1	1		22.70		24.0
10	64QAM	1	1		21.42		22.7
10	256QAM	1	1		19.69		20.7
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	22.88	22.85	22.86	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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.33		25.2
10	PI/2 BPSK	1	26		24.30		
10	PI/2 BPSK	1	50		24.02		
10	PI/2 BPSK	25	0		21.87		23.2
10	PI/2 BPSK	25	14		24.19		25.2
10	PI/2 BPSK	25	27		21.63		23.2
10	PI/2 BPSK	50	0		21.77		
10	QPSK	1	1		24.19		25.2
10	QPSK	1	26		24.08		
10	QPSK	1	50		24.09		
10	QPSK	25	0		20.76		22.7
10	QPSK	25	14		24.15		25.2
10	QPSK	25	27		20.71		22.7
10	QPSK	50	0		20.75		
10	16QAM	1	1		23.33		24.2
10	64QAM	1	1		21.82		22.7
10	256QAM	1	1		19.75		20.7
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	24.25	24.30	24.24	25.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		22.91		24.0
10	PI/2 BPSK	1	26		22.89		
10	PI/2 BPSK	1	50		22.73		
10	PI/2 BPSK	25	0		21.63		23.2
10	PI/2 BPSK	25	14		22.71		24.0
10	PI/2 BPSK	25	27		21.52		23.2
10	PI/2 BPSK	50	0		21.55		
10	QPSK	1	1		22.86		24.0
10	QPSK	1	26		22.83		
10	QPSK	1	50		22.69		
10	QPSK	25	0		20.72		22.7
10	QPSK	25	14		22.70		24.0
10	QPSK	25	27		20.70		22.7
10	QPSK	50	0		20.71		
10	16QAM	1	1		22.70		24.0
10	64QAM	1	1		21.42		22.7
10	256QAM	1	1		19.69		20.7
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	22.88	22.85	22.86	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				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	24.62	24.68	24.65	25.2
20	PI/2 BPSK	1	26	24.52	24.65	24.47	
20	PI/2 BPSK	1	49	24.45	24.62	24.42	
20	PI/2 BPSK	25	0	24.00	24.17	24.04	24.7
20	PI/2 BPSK	25	13	24.47	24.64	24.48	25.2
20	PI/2 BPSK	25	26	23.95	24.11	23.98	24.7
20	PI/2 BPSK	50	0	24.00	24.16	24.06	
20	QPSK	1	1	24.53	24.67	24.51	25.2
20	QPSK	1	26	24.48	24.62	24.50	
20	QPSK	1	49	24.42	24.61	24.41	
20	QPSK	25	0	23.51	23.66	23.50	24.2
20	QPSK	25	13	24.50	24.65	24.49	25.2
20	QPSK	25	26	23.49	23.62	23.43	24.2
20	QPSK	50	0	23.51	23.65	23.47	
20	16QAM	1	1	23.55	23.71	23.59	24.2
20	64QAM	1	1	21.98	22.14	21.97	22.7
20	256QAM	1	1	20.01	20.16	20.00	20.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	24.43	24.51	24.53	25.2
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	24.51	24.53	24.55	25.2

<FR1 n38\_Ant 0\_Index 3>

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



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

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



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	25.2
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.75	24.80	24.61	
100	PI/2 BPSK	1	137	24.30	24.44	24.27	24.7
100	PI/2 BPSK	1	271	24.31	24.50	24.34	
100	PI/2 BPSK	135	0	23.87	24.04	23.90	25.2
100	PI/2 BPSK	135	69	24.29	24.44	24.29	
100	PI/2 BPSK	135	138	23.71	23.91	23.81	24.7
100	PI/2 BPSK	270	0	23.76	23.94	23.76	
100	QPSK	1	1	24.68	24.78	24.60	25.2
100	QPSK	1	137	24.22	24.40	24.22	
100	QPSK	1	271	24.38	24.50	24.31	
100	QPSK	135	0	23.40	23.54	23.36	24.2
100	QPSK	135	69	24.31	24.43	24.30	25.2
100	QPSK	135	138	23.22	23.40	23.28	24.2
100	QPSK	270	0	23.30	23.43	23.30	
100	16QAM	1	1	23.64	23.79	23.61	24.2
100	64QAM	1	1	22.12	22.25	22.07	22.7
100	256QAM	1	1	20.14	20.28	20.14	20.7
Channel				508200	518598	528996	25.2
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.62	24.71	24.61	25.2
Channel				507204	518598	529998	25.2
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.63	24.69	24.62	25.2
Channel				506202	518598	531000	25.2
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.66	24.71	24.63	25.2
Channel				505200	518598	531996	25.2
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.52	24.67	24.58	25.2
Channel				504204	518598	532998	25.2
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.52	24.58	24.53	25.2
Channel				503202	518598	534000	25.2
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.55	24.57	24.55	25.2
Channel				502200	518598	534996	25.2
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.51	24.57	24.50	25.2
Channel				501204	518598	535998	25.2
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.41	24.46	24.44	25.2
Channel				500700	518598	536496	25.2
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.42	24.46	24.46	25.2
Channel				500202	518598	537000	25.2
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.43	24.45	24.40	25.2



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





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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	25.2
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.75	24.80	24.61	
100	PI/2 BPSK	1	137	24.30	24.44	24.27	24.7
100	PI/2 BPSK	1	271	24.31	24.50	24.34	
100	PI/2 BPSK	135	0	23.87	24.04	23.90	25.2
100	PI/2 BPSK	135	69	24.29	24.44	24.29	
100	PI/2 BPSK	135	138	23.71	23.91	23.81	24.7
100	PI/2 BPSK	270	0	23.76	23.94	23.76	
100	QPSK	1	1	24.68	24.78	24.60	25.2
100	QPSK	1	137	24.22	24.40	24.22	
100	QPSK	1	271	24.38	24.50	24.31	
100	QPSK	135	0	23.40	23.54	23.36	24.2
100	QPSK	135	69	24.31	24.43	24.30	25.2
100	QPSK	135	138	23.22	23.40	23.28	24.2
100	QPSK	270	0	23.30	23.43	23.30	
100	16QAM	1	1	23.64	23.79	23.61	24.2
100	64QAM	1	1	22.12	22.25	22.07	22.7
100	256QAM	1	1	20.14	20.28	20.14	20.7
Channel				508200	518598	528996	25.2
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.62	24.71	24.61	25.2
Channel				507204	518598	529998	25.2
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.63	24.69	24.62	25.2
Channel				506202	518598	531000	25.2
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.66	24.71	24.63	25.2
Channel				505200	518598	531996	25.2
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.52	24.67	24.58	25.2
Channel				504204	518598	532998	25.2
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.52	24.58	24.53	25.2
Channel				503202	518598	534000	25.2
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.55	24.57	24.55	25.2
Channel				502200	518598	534996	25.2
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.51	24.57	24.50	25.2
Channel				501204	518598	535998	25.2
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.41	24.46	24.44	25.2
Channel				500700	518598	536496	25.2
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.42	24.46	24.46	25.2
Channel				500202	518598	537000	25.2
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.43	24.45	24.40	25.2



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.12	21.13	21.09	21.9
100	PI/2 BPSK	1	137	20.80	20.82	20.79	
100	PI/2 BPSK	1	271	20.93	20.95	20.86	
100	PI/2 BPSK	135	0	20.79	20.87	20.86	21.9
100	PI/2 BPSK	135	69	20.73	20.79	20.75	21.9
100	PI/2 BPSK	135	138	20.75	20.79	20.75	21.9
100	PI/2 BPSK	270	0	20.75	20.80	20.72	
100	QPSK	1	1	21.09	21.11	21.01	21.9
100	QPSK	1	137	20.64	20.72	20.65	
100	QPSK	1	271	20.90	20.92	20.88	
100	QPSK	135	0	20.78	20.83	20.78	21.9
100	QPSK	135	69	20.68	20.76	20.69	21.9
100	QPSK	135	138	20.69	20.72	20.66	21.9
100	QPSK	270	0	20.77	20.79	20.78	
100	16QAM	1	1	21.09	21.12	21.05	21.9
100	64QAM	1	1	20.99	21.07	21.04	21.9
100	256QAM	1	1	20.16	20.25	20.09	20.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.05	21.05	21.03	21.9
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.03	21.04	20.95	21.9
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.99	20.98	20.98	21.9
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.03	21.07	20.94	21.9
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.00	20.99	20.95	21.9
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.05	21.06	21.01	21.9
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.98	21.02	20.94	21.9
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.03	21.03	20.95	21.9
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.04	21.05	20.95	21.9
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.06	21.05	20.99	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.13	19.14	19.12	19.7
100	PI/2 BPSK	1	137	18.47	18.53	18.46	
100	PI/2 BPSK	1	271	18.93	18.93	18.93	
100	PI/2 BPSK	135	0	18.55	18.58	18.57	19.7
100	PI/2 BPSK	135	69	18.50	18.59	18.50	19.7
100	PI/2 BPSK	135	138	18.57	18.56	18.52	19.7
100	PI/2 BPSK	270	0	18.57	18.65	18.56	
100	QPSK	1	1	19.05	19.09	19.07	19.7
100	QPSK	1	137	18.45	18.52	18.52	
100	QPSK	1	271	18.88	18.94	18.90	
100	QPSK	135	0	18.62	18.65	18.55	19.7
100	QPSK	135	69	18.50	18.56	18.46	19.7
100	QPSK	135	138	18.54	18.61	18.55	19.7
100	QPSK	270	0	18.56	18.65	18.58	
100	16QAM	1	1	19.02	19.11	19.08	19.7
100	64QAM	1	1	19.03	19.04	18.97	19.7
100	256QAM	1	1	19.00	19.06	19.05	19.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.02	19.04	19.06	19.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.02	19.02	19.03	19.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.03	19.10	19.09	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	19.06	19.08	19.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.05	19.12	19.01	19.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.09	19.04	19.03	19.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.04	19.03	19.08	19.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.06	19.09	19.10	19.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.10	19.06	19.10	19.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.01	19.12	19.04	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	22.65	22.70	22.58	24.4
100	PI/2 BPSK	1	137	22.50	22.58	22.44	
100	PI/2 BPSK	1	271	22.42	22.50	22.42	
100	PI/2 BPSK	135	0	22.44	22.49	22.44	24.4
100	PI/2 BPSK	135	69	22.49	22.50	22.42	24.4
100	PI/2 BPSK	135	138	22.49	22.44	22.48	24.4
100	PI/2 BPSK	270	0	22.68	22.58	22.64	
100	QPSK	1	1	22.59	22.69	22.56	24.4
100	QPSK	1	137	22.50	22.59	22.47	
100	QPSK	1	271	22.43	22.50	22.53	
100	QPSK	135	0	22.78	22.87	22.71	24.2
100	QPSK	135	69	22.51	22.58	22.42	24.4
100	QPSK	135	138	22.65	22.75	22.59	24.2
100	QPSK	270	0	22.27	22.37	22.20	
100	16QAM	1	1	22.55	22.65	22.48	24.2
100	64QAM	1	1	22.18	22.25	22.10	22.7
100	256QAM	1	1	20.16	20.25	20.09	20.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.60	22.60	22.50	24.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.57	22.65	22.53	24.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.56	22.61	22.48	24.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.55	22.65	22.50	24.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.55	22.60	22.53	24.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.58	22.65	22.50	24.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.60	22.65	22.51	24.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.56	22.64	22.52	24.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.59	22.64	22.51	24.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.58	22.64	22.51	24.4



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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	21.15	21.26	21.13	22.1
100	PI/2 BPSK	1	137	20.59	20.72	20.60	
100	PI/2 BPSK	1	271	21.00	21.09	20.97	
100	PI/2 BPSK	135	0	20.60	20.71	20.63	22.1
100	PI/2 BPSK	135	69	20.65	20.74	20.62	22.1
100	PI/2 BPSK	135	138	20.66	20.71	20.62	22.1
100	PI/2 BPSK	270	0	20.77	20.87	20.78	
100	QPSK	1	1	21.13	21.24	21.17	22.1
100	QPSK	1	137	20.50	20.64	20.58	
100	QPSK	1	271	20.90	20.97	20.90	
100	QPSK	135	0	20.63	20.68	20.59	22.1
100	QPSK	135	69	20.58	20.66	20.58	22.1
100	QPSK	135	138	20.53	20.61	20.47	22.1
100	QPSK	270	0	20.70	20.77	20.65	
100	16QAM	1	1	21.07	21.22	21.09	22.1
100	64QAM	1	1	21.13	21.18	21.09	22.1
100	256QAM	1	1	20.04	20.11	19.96	20.2
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.06	21.21	21.02	22.1
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.08	21.14	21.07	22.1
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.08	21.15	21.04	22.1
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.03	21.21	21.01	22.1
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.09	21.12	20.99	22.1
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.08	21.17	21.06	22.1
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.02	21.18	21.01	22.1
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.06	21.14	21.04	22.1
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.04	21.21	21.01	22.1
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.04	21.13	21.05	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				509202	518598	528000	21.9
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.12	21.13	21.09	
100	PI/2 BPSK	1	137	20.80	20.82	20.79	21.9
100	PI/2 BPSK	1	271	20.93	20.95	20.86	
100	PI/2 BPSK	135	0	20.79	20.87	20.86	21.9
100	PI/2 BPSK	135	69	20.73	20.79	20.75	21.9
100	PI/2 BPSK	135	138	20.75	20.79	20.75	21.9
100	PI/2 BPSK	270	0	20.75	20.80	20.72	
100	QPSK	1	1	21.09	21.11	21.01	21.9
100	QPSK	1	137	20.64	20.72	20.65	
100	QPSK	1	271	20.90	20.92	20.88	
100	QPSK	135	0	20.78	20.83	20.78	21.9
100	QPSK	135	69	20.68	20.76	20.69	21.9
100	QPSK	135	138	20.69	20.72	20.66	21.9
100	QPSK	270	0	20.77	20.79	20.78	
100	16QAM	1	1	21.09	21.12	21.05	21.9
100	64QAM	1	1	20.99	21.07	21.04	21.9
100	256QAM	1	1	20.16	20.25	20.09	20.7
Channel				508200	518598	528996	21.9
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.05	21.05	21.03	21.9
Channel				507204	518598	529998	21.9
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.03	21.04	20.95	21.9
Channel				506202	518598	531000	21.9
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.99	20.98	20.98	21.9
Channel				505200	518598	531996	21.9
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.03	21.07	20.94	21.9
Channel				504204	518598	532998	21.9
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.00	20.99	20.95	21.9
Channel				503202	518598	534000	21.9
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.05	21.06	21.01	21.9
Channel				502200	518598	534996	21.9
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.98	21.02	20.94	21.9
Channel				501204	518598	535998	21.9
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.03	21.03	20.95	21.9
Channel				500700	518598	536496	21.9
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.04	21.05	20.95	21.9
Channel				500202	518598	537000	21.9
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.06	21.05	20.99	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.13	19.14	19.12	19.7
100	PI/2 BPSK	1	137	18.47	18.53	18.46	
100	PI/2 BPSK	1	271	18.93	18.93	18.93	
100	PI/2 BPSK	135	0	18.55	18.58	18.57	19.7
100	PI/2 BPSK	135	69	18.50	18.59	18.50	19.7
100	PI/2 BPSK	135	138	18.57	18.56	18.52	19.7
100	PI/2 BPSK	270	0	18.57	18.65	18.56	
100	QPSK	1	1	19.05	19.09	19.07	19.7
100	QPSK	1	137	18.45	18.52	18.52	
100	QPSK	1	271	18.88	18.94	18.90	
100	QPSK	135	0	18.62	18.65	18.55	19.7
100	QPSK	135	69	18.50	18.56	18.46	19.7
100	QPSK	135	138	18.54	18.61	18.55	19.7
100	QPSK	270	0	18.56	18.65	18.58	
100	16QAM	1	1	19.02	19.11	19.08	19.7
100	64QAM	1	1	19.03	19.04	18.97	19.7
100	256QAM	1	1	19.00	19.06	19.05	19.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.02	19.04	19.06	19.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.02	19.02	19.03	19.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.03	19.10	19.09	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	19.06	19.08	19.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.05	19.12	19.01	19.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.09	19.04	19.03	19.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.04	19.03	19.08	19.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.06	19.09	19.10	19.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.10	19.06	19.10	19.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.01	19.12	19.04	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	26.54	26.62	26.43	27.0
100	PI/2 BPSK	1	137	26.14	26.19	26.13	
100	PI/2 BPSK	1	271	26.18	26.28	26.21	
100	PI/2 BPSK	135	0	25.76	25.81	25.76	26.5
100	PI/2 BPSK	135	69	26.13	26.20	26.10	27.0
100	PI/2 BPSK	135	138	25.57	25.67	25.59	26.5
100	PI/2 BPSK	270	0	25.62	25.71	25.65	
100	QPSK	1	1	26.48	26.53	26.44	27.0
100	QPSK	1	137	26.13	26.18	26.10	
100	QPSK	1	271	26.21	26.28	26.21	
100	QPSK	135	0	25.21	25.29	25.23	26.0
100	QPSK	135	69	26.12	26.19	26.12	27.0
100	QPSK	135	138	25.10	25.15	25.09	26.0
100	QPSK	270	0	25.14	25.19	25.10	
100	16QAM	1	1	25.51	25.56	25.49	26.0
100	64QAM	1	1	23.96	24.02	23.94	24.5
100	256QAM	1	1	21.98	22.03	21.94	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	26.49	26.51	26.34	27.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.46	26.51	26.32	27.0
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	26.47	26.50	26.31	27.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.46	26.55	26.37	27.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.45	26.51	26.32	27.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.49	26.50	26.38	27.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.44	26.53	26.38	27.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	26.45	26.53	26.38	27.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	26.44	26.57	26.37	27.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	26.30	26.42	26.34	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.08	18.20	18.12	19.6
100	PI/2 BPSK	1	137	17.75	17.81	17.75	
100	PI/2 BPSK	1	271	17.85	17.91	17.79	
100	PI/2 BPSK	135	0	17.68	17.67	17.65	19.6
100	PI/2 BPSK	135	69	17.73	17.80	17.72	19.6
100	PI/2 BPSK	135	138	17.64	17.60	17.63	19.6
100	PI/2 BPSK	270	0	17.64	17.75	17.69	
100	QPSK	1	1	18.11	18.11	18.10	19.6
100	QPSK	1	137	17.68	17.73	17.70	
100	QPSK	1	271	17.79	17.84	17.79	
100	QPSK	135	0	17.60	17.64	17.62	19.6
100	QPSK	135	69	17.75	17.72	17.69	19.6
100	QPSK	135	138	17.61	17.61	17.62	19.6
100	QPSK	270	0	17.64	17.67	17.66	
100	16QAM	1	1	17.99	18.11	18.00	19.6
100	64QAM	1	1	18.01	18.05	18.00	19.6
100	256QAM	1	1	18.01	18.05	17.99	19.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.00	18.06	18.05	19.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	17.93	18.08	18.05	19.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.01	18.10	18.04	19.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	17.98	18.12	18.02	19.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	17.98	18.08	18.07	19.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	17.98	18.06	17.99	19.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.03	18.08	18.04	19.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.03	18.09	17.98	19.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	17.96	18.13	17.99	19.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	17.95	18.12	18.05	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.54	26.62	26.43	27.0
100	PI/2 BPSK	1	137	26.14	26.19	26.13	
100	PI/2 BPSK	1	271	26.18	26.28	26.21	
100	PI/2 BPSK	135	0	25.76	25.81	25.76	26.5
100	PI/2 BPSK	135	69	26.13	26.20	26.10	27.0
100	PI/2 BPSK	135	138	25.57	25.67	25.59	26.5
100	PI/2 BPSK	270	0	25.62	25.71	25.65	
100	QPSK	1	1	26.48	26.53	26.44	27.0
100	QPSK	1	137	26.13	26.18	26.10	
100	QPSK	1	271	26.21	26.28	26.21	
100	QPSK	135	0	25.21	25.29	25.23	26.0
100	QPSK	135	69	26.12	26.19	26.12	27.0
100	QPSK	135	138	25.10	25.15	25.09	26.0
100	QPSK	270	0	25.14	25.19	25.10	
100	16QAM	1	1	25.51	25.56	25.49	26.0
100	64QAM	1	1	23.96	24.02	23.94	24.5
100	256QAM	1	1	21.98	22.03	21.94	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	26.49	26.51	26.34	27.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.46	26.51	26.32	27.0
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	26.47	26.50	26.31	27.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.46	26.55	26.37	27.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.45	26.51	26.32	27.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.49	26.50	26.38	27.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.44	26.53	26.38	27.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	26.45	26.53	26.38	27.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	26.44	26.57	26.37	27.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	26.30	26.42	26.34	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				509202	518598	528000	18.6
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.08	18.20	18.12	
100	PI/2 BPSK	1	137	17.75	17.81	17.75	18.6
100	PI/2 BPSK	1	271	17.85	17.91	17.79	
100	PI/2 BPSK	135	0	17.68	17.67	17.65	
100	PI/2 BPSK	135	69	17.73	17.80	17.72	18.6
100	PI/2 BPSK	135	138	17.64	17.60	17.63	
100	PI/2 BPSK	270	0	17.64	17.75	17.69	
100	QPSK	1	1	18.11	18.11	18.10	18.6
100	QPSK	1	137	17.68	17.73	17.70	
100	QPSK	1	271	17.79	17.84	17.79	
100	QPSK	135	0	17.60	17.64	17.62	18.6
100	QPSK	135	69	17.75	17.72	17.69	
100	QPSK	135	138	17.61	17.61	17.62	
100	QPSK	270	0	17.64	17.67	17.66	18.6
100	16QAM	1	1	17.99	18.11	18.00	
100	64QAM	1	1	18.01	18.05	18.00	
100	256QAM	1	1	18.01	18.05	17.99	18.6
Channel				508200	518598	528996	18.6
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.00	18.06	18.05	
Channel				507204	518598	529998	18.6
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	17.93	18.08	18.05	
Channel				506202	518598	531000	18.6
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.01	18.10	18.04	
Channel				505200	518598	531996	18.6
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	17.98	18.12	18.02	
Channel				504204	518598	532998	18.6
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	17.98	18.08	18.07	
Channel				503202	518598	534000	18.6
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	17.98	18.06	17.99	
Channel				502200	518598	534996	18.6
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.03	18.08	18.04	
Channel				501204	518598	535998	18.6
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.03	18.09	17.98	
Channel				500700	518598	536496	18.6
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	17.96	18.13	17.99	
Channel				500202	518598	537000	18.6
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	17.95	18.12	18.05	



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



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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	21.95	22.02	21.99	22.7
100	PI/2 BPSK	1	137	21.36	21.40	21.31	
100	PI/2 BPSK	1	271	21.77	21.85	21.84	
100	PI/2 BPSK	135	0	21.46	21.49	21.49	22.7
100	PI/2 BPSK	135	69	21.38	21.50	21.35	22.7
100	PI/2 BPSK	135	138	21.48	21.48	21.46	22.7
100	PI/2 BPSK	270	0	21.47	21.57	21.47	
100	QPSK	1	1	22.02	22.03	21.99	22.7
100	QPSK	1	137	21.34	21.40	21.34	
100	QPSK	1	271	21.84	21.84	21.84	
100	QPSK	135	0	21.47	21.55	21.55	22.7
100	QPSK	135	69	21.34	21.44	21.39	22.7
100	QPSK	135	138	21.44	21.53	21.46	22.7
100	QPSK	270	0	21.48	21.58	21.52	
100	16QAM	1	1	22.02	22.08	22.01	22.7
100	64QAM	1	1	21.98	21.98	21.88	22.7
100	256QAM	1	1	21.50	21.60	21.58	22.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.91	21.90	21.96	22.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.86	21.87	21.85	22.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.90	21.92	21.87	22.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.89	21.96	21.94	22.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.81	21.96	21.87	22.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.87	21.92	21.89	22.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.83	21.94	21.85	22.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.84	21.98	21.90	22.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.82	21.90	21.95	22.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.86	21.89	21.86	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				509202	518598	528000	27.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.54	26.62	26.43	
100	PI/2 BPSK	1	137	26.14	26.19	26.13	26.5
100	PI/2 BPSK	1	271	26.18	26.28	26.21	
100	PI/2 BPSK	135	0	25.76	25.81	25.76	27.0
100	PI/2 BPSK	135	69	26.13	26.20	26.10	
100	PI/2 BPSK	135	138	25.57	25.67	25.59	26.5
100	PI/2 BPSK	270	0	25.62	25.71	25.65	
100	QPSK	1	1	26.48	26.53	26.44	27.0
100	QPSK	1	137	26.13	26.18	26.10	
100	QPSK	1	271	26.21	26.28	26.21	
100	QPSK	135	0	25.21	25.29	25.23	26.0
100	QPSK	135	69	26.12	26.19	26.12	
100	QPSK	135	138	25.10	25.15	25.09	26.0
100	QPSK	270	0	25.14	25.19	25.10	
100	16QAM	1	1	25.51	25.56	25.49	26.0
100	64QAM	1	1	23.96	24.02	23.94	
100	256QAM	1	1	21.98	22.03	21.94	22.5
Channel				508200	518598	528996	27.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	26.49	26.51	26.34	27.0
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.46	26.51	26.32	27.0
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	26.47	26.50	26.31	27.0
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.46	26.55	26.37	27.0
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.45	26.51	26.32	27.0
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.49	26.50	26.38	27.0
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.44	26.53	26.38	27.0
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	26.45	26.53	26.38	27.0
Channel				500700	518598	536496	
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	26.44	26.57	26.37	27.0
Channel				500202	518598	537000	
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	26.30	26.42	26.34	27.0



<FR1 n41\_HPUE\_Ant 5\_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	25.1
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.11	24.19	24.06	
100	PI/2 BPSK	1	137	23.66	23.75	23.70	25.1
100	PI/2 BPSK	1	271	23.86	23.98	23.92	
100	PI/2 BPSK	135	0	23.62	23.70	23.61	
100	PI/2 BPSK	135	69	23.60	23.71	23.60	25.1
100	PI/2 BPSK	135	138	23.62	23.70	23.62	
100	PI/2 BPSK	270	0	23.63	23.74	23.68	
100	QPSK	1	1	23.99	24.11	24.03	25.1
100	QPSK	1	137	23.62	23.67	23.56	
100	QPSK	1	271	23.75	23.88	23.82	
100	QPSK	135	0	23.55	23.64	23.53	25.1
100	QPSK	135	69	23.46	23.61	23.56	
100	QPSK	135	138	23.47	23.62	23.49	
100	QPSK	270	0	23.55	23.66	23.52	25.1
100	16QAM	1	1	24.13	24.18	24.13	
100	64QAM	1	1	23.56	23.62	23.50	
100	256QAM	1	1	21.50	21.60	21.58	22.0
Channel				508200	518598	528996	25.1
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.04	24.13	24.04	
Channel				507204	518598	529998	25.1
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.02	24.08	24.00	
Channel				506202	518598	531000	25.1
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.99	24.10	23.98	
Channel				505200	518598	531996	25.1
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.07	24.07	24.03	
Channel				504204	518598	532998	25.1
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.03	24.15	24.01	
Channel				503202	518598	534000	25.1
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.01	24.09	23.95	
Channel				502200	518598	534996	25.1
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.06	24.12	24.01	
Channel				501204	518598	535998	25.1
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.01	24.12	23.95	
Channel				500700	518598	536496	25.1
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.01	24.10	23.98	
Channel				500202	518598	537000	25.1
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.01	24.11	24.04	





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



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



<FR1 n48_Ant 2_Index 2>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
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	13.34	19.75	12.98	14.00	20.50	13.50
40	PI/2 BPSK	1	104	12.91	19.31	12.67	13.50	20.00	13.50
40	PI/2 BPSK	50	25	13.09	23.56	12.80	14.00	24.50	13.50
40	PI/2 BPSK	1	0	13.28	19.80	12.95	14.00	20.50	13.50
40	PI/2 BPSK	1	105	12.93	19.28	12.63	13.50	20.00	13.50
40	PI/2 BPSK	100	0	13.08	19.09	12.70	14.00	20.00	13.50
40	QPSK	1	1	9.85	19.73	9.45	10.50	20.50	10.00
40	QPSK	1	104	9.39	19.28	9.11	10.00	20.00	10.00
40	QPSK	50	25	9.56	23.57	9.20	10.50	24.50	10.00
40	QPSK	1	0	9.75	19.79	9.47	10.50	20.50	10.00
40	QPSK	1	105	9.31	19.22	9.12	10.00	20.00	10.00
40	QPSK	100	0	9.57	19.06	9.21	10.50	20.00	10.00
40	16QAM	1	1	9.81	20.02	9.46	10.50	21.00	10.00
40	64QAM	1	1	9.82	19.86	9.42	10.50	20.50	10.00
40	256QAM	1	1	9.69	19.22	9.48	10.50	20.00	10.00
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	19.68	23.78	23.30	20.50	24.50	24.00
20	PI/2 BPSK	1	49	23.48	23.48	19.19	24.00	24.00	20.00
20	PI/2 BPSK	25	12	23.60	23.54	23.43	24.50	24.50	24.00
20	PI/2 BPSK	1	0	19.73	23.23	22.82	20.50	24.00	23.50
20	PI/2 BPSK	1	50	23.02	22.98	19.26	24.00	23.50	20.00
20	PI/2 BPSK	50	0	19.57	23.07	19.39	20.50	24.00	20.00
20	QPSK	1	1	19.66	23.73	23.34	20.50	24.50	24.00
20	QPSK	1	49	23.50	23.47	19.28	24.50	24.00	20.00
20	QPSK	25	12	23.64	23.54	23.44	24.50	24.50	24.00
20	QPSK	1	0	19.67	22.77	22.29	20.50	23.50	23.00
20	QPSK	1	50	22.47	22.49	19.29	23.00	23.00	20.00
20	QPSK	50	0	19.61	22.57	19.42	20.50	23.50	20.00
20	16QAM	1	1	18.67	22.80	22.32	19.50	23.50	23.00
20	64QAM	1	1	18.63	21.31	20.88	19.50	22.00	21.50
20	256QAM	1	1	19.23	19.24	18.49	20.00	20.00	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	19.61	23.66	23.34	20.50	24.50	24.00
15	PI/2 BPSK	1	36	23.46	23.46	19.22	24.00	24.00	20.00
15	PI/2 BPSK	18	9	23.59	23.51	23.46	24.50	24.50	24.00
15	PI/2 BPSK	1	0	19.63	23.14	22.86	20.50	24.00	23.50
15	PI/2 BPSK	1	37	22.97	22.90	19.21	23.50	23.50	20.00
15	PI/2 BPSK	36	0	19.51	23.04	19.41	20.50	24.00	20.00
15	QPSK	1	1	19.69	23.64	23.37	20.50	24.50	24.00
15	QPSK	1	36	23.52	23.47	19.20	24.50	24.00	20.00
15	QPSK	18	9	23.56	23.58	23.53	24.50	24.50	24.50
15	QPSK	1	0	19.65	22.65	22.38	20.50	23.50	23.00
15	QPSK	1	37	22.45	22.40	19.26	23.00	23.00	20.00
15	QPSK	36	0	19.56	22.50	19.44	20.50	23.50	20.00
15	16QAM	1	1	18.62	22.71	22.40	19.50	23.50	23.00
15	64QAM	1	1	18.45	21.12	20.78	19.00	22.00	21.50
15	256QAM	1	1	19.15	19.16	18.81	20.00	20.00	19.50
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



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10	PI/2 BPSK	1	1	23.62	23.60	23.50	24.50	24.50	24.50
10	PI/2 BPSK	1	22	23.44	23.50	23.29	24.00	24.50	24.00
10	PI/2 BPSK	12	6	23.54	23.52	23.47	24.50	24.50	24.00
10	PI/2 BPSK	1	0	23.07	23.15	22.97	24.00	24.00	23.50
10	PI/2 BPSK	1	23	22.94	22.96	22.82	23.50	23.50	23.50
10	PI/2 BPSK	24	0	23.01	22.99	22.87	24.00	23.50	23.50
10	QPSK	1	1	23.63	23.66	23.52	24.50	24.50	24.50
10	QPSK	1	22	23.50	23.49	23.30	24.50	24.00	24.00
10	QPSK	12	6	23.57	23.52	23.46	24.50	24.50	24.00
10	QPSK	1	0	22.68	22.62	22.48	23.50	23.50	23.00
10	QPSK	1	23	22.48	22.48	22.27	23.00	23.00	23.00
10	QPSK	24	0	22.50	22.47	22.39	23.50	23.00	23.00
10	16QAM	1	1	22.63	22.69	22.67	23.50	23.50	23.50
10	64QAM	1	1	21.06	21.22	20.91	22.00	22.00	21.50
10	256QAM	1	1	19.16	18.94	19.10	20.00	19.50	20.00



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**Report No. :FA451606B**

<FR1 n48_Ant 2_Index 3>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3623.1.99	3679.98
40	PI/2 BPSK	1	1	13.34	19.75	12.98	14.00	20.50	13.50
40	PI/2 BPSK	1	104	12.91	19.31	12.67	13.50	20.00	13.50
40	PI/2 BPSK	50	25	13.09	21.70	12.80	14.00	23.10	13.50
40	PI/2 BPSK	1	0	13.28	19.80	12.95	14.00	20.50	13.50
40	PI/2 BPSK	1	105	12.93	19.28	12.63	13.50	20.00	13.50
40	PI/2 BPSK	100	0	13.08	19.09	12.70	14.00	20.00	13.50
40	QPSK	1	1	9.85	19.73	9.45	10.50	20.50	10.00
40	QPSK	1	104	9.39	19.28	9.11	10.00	20.00	10.00
40	QPSK	50	25	9.56	21.60	9.20	10.50	23.10	10.00
40	QPSK	1	0	9.75	19.79	9.47	10.50	20.50	10.00
40	QPSK	1	105	9.31	19.22	9.12	10.00	20.00	10.00
40	QPSK	100	0	9.57	19.06	9.21	10.50	20.00	10.00
40	16QAM	1	1	9.81	20.02	9.46	10.50	21.00	10.00
40	64QAM	1	1	9.82	19.86	9.42	10.50	20.50	10.00
40	256QAM	1	1	9.69	19.22	9.48	10.50	20.00	10.00
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3623.1.99	3690
20	PI/2 BPSK	1	1	19.68	21.70	21.60	20.50	23.10	23.10
20	PI/2 BPSK	1	49	21.64	21.60	19.19	23.10	23.10	20.00
20	PI/2 BPSK	25	12	21.55	21.57	21.64	23.10	23.10	23.10
20	PI/2 BPSK	1	0	19.73	21.56	21.55	20.50	23.10	23.10
20	PI/2 BPSK	1	50	21.60	21.61	19.26	23.10	23.10	20.00
20	PI/2 BPSK	50	0	19.57	21.61	19.39	20.50	23.10	20.00
20	QPSK	1	1	19.66	21.62	21.57	20.50	23.10	23.10
20	QPSK	1	49	21.61	21.64	19.28	23.10	23.10	20.00
20	QPSK	25	12	21.61	21.65	21.58	23.10	23.10	23.10
20	QPSK	1	0	19.67	21.63	22.29	20.50	23.10	23.00
20	QPSK	1	50	22.47	21.56	19.29	23.00	23.00	20.00
20	QPSK	50	0	19.61	21.58	19.42	20.50	23.10	20.00
20	16QAM	1	1	18.67	21.55	22.32	19.50	23.10	23.00
20	64QAM	1	1	18.63	21.31	20.88	19.50	22.00	21.50
20	256QAM	1	1	19.23	19.24	18.49	20.00	20.00	19.00
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3623.1.99	3692.49
15	PI/2 BPSK	1	1	19.61	21.61	21.65	20.50	23.10	23.10
15	PI/2 BPSK	1	36	21.61	21.56	19.22	23.10	23.10	20.00
15	PI/2 BPSK	18	9	21.64	21.58	21.60	23.10	23.10	23.10
15	PI/2 BPSK	1	0	19.63	21.57	21.63	20.50	23.10	23.10
15	PI/2 BPSK	1	37	21.55	21.61	19.21	23.10	23.10	20.00
15	PI/2 BPSK	36	0	19.51	21.60	19.41	20.50	23.10	20.00
15	QPSK	1	1	19.69	21.60	21.56	20.50	23.10	23.10
15	QPSK	1	36	21.60	21.58	19.20	23.10	23.10	20.00
15	QPSK	18	9	21.55	21.63	21.65	23.10	23.10	23.10
15	QPSK	1	0	19.65	21.65	22.38	20.50	23.10	23.00
15	QPSK	1	37	22.45	21.63	19.26	23.00	23.00	20.00
15	QPSK	36	0	19.56	21.62	19.44	20.50	23.10	20.00
15	16QAM	1	1	18.62	21.65	22.40	19.50	23.10	23.00
15	64QAM	1	1	18.45	21.12	20.78	19.00	22.00	21.50
15	256QAM	1	1	19.15	19.16	18.81	20.00	20.00	19.50
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3623.1.99	3694.98



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10	PI/2 BPSK	1	1	21.58	21.59	21.58	23.10	23.10	23.10
10	PI/2 BPSK	1	22	21.55	21.63	21.64	23.10	23.10	23.10
10	PI/2 BPSK	12	6	21.59	21.63	21.64	23.10	23.10	23.10
10	PI/2 BPSK	1	0	21.63	21.59	21.58	23.10	23.10	23.10
10	PI/2 BPSK	1	23	21.57	21.57	21.62	23.10	23.10	23.10
10	PI/2 BPSK	24	0	21.58	21.63	21.57	23.10	23.10	23.10
10	QPSK	1	1	21.64	21.55	21.60	23.10	23.10	23.10
10	QPSK	1	22	21.59	21.65	21.64	23.10	23.10	23.10
10	QPSK	12	6	21.58	21.60	21.61	23.10	23.10	23.10
10	QPSK	1	0	21.64	21.65	21.57	23.10	23.10	23.00
10	QPSK	1	23	21.61	21.62	21.64	23.00	23.00	23.00
10	QPSK	24	0	21.57	21.65	21.55	23.10	23.00	23.00
10	16QAM	1	1	21.61	21.58	21.62	23.10	23.10	23.10
10	64QAM	1	1	21.06	21.22	20.91	22.00	22.00	21.50
10	256QAM	1	1	19.16	18.94	19.10	20.00	19.50	20.00



<FR1 n48_Ant 2_Index 4>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
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	13.34	18.80	12.98	14.00	19.40	13.50
40	PI/2 BPSK	1	104	12.91	18.55	12.67	13.50	19.40	13.50
40	PI/2 BPSK	50	25	13.09	18.77	12.80	14.00	19.40	13.50
40	PI/2 BPSK	1	0	13.28	18.78	12.95	14.00	19.40	13.50
40	PI/2 BPSK	1	105	12.93	18.56	12.63	13.50	19.40	13.50
40	PI/2 BPSK	100	0	13.08	18.76	12.70	14.00	19.40	13.50
40	QPSK	1	1	9.85	18.78	9.45	10.50	19.40	10.00
40	QPSK	1	104	9.39	18.52	9.11	10.00	19.40	10.00
40	QPSK	50	25	9.56	18.75	9.20	10.50	19.40	10.00
40	QPSK	1	0	9.75	18.74	9.47	10.50	19.40	10.00
40	QPSK	1	105	9.31	18.55	9.12	10.00	19.40	10.00
40	QPSK	100	0	9.57	18.73	9.21	10.50	19.40	10.00
40	16QAM	1	1	9.81	18.76	9.46	10.50	19.40	10.00
40	64QAM	1	1	9.82	18.73	9.42	10.50	19.40	10.00
40	256QAM	1	1	9.69	18.70	9.48	10.50	19.40	10.00
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	18.77	18.79	18.75	19.40	19.40	19.40
20	PI/2 BPSK	1	49	18.50	18.51	18.45	19.40	19.40	19.40
20	PI/2 BPSK	25	12	18.70	18.76	18.73	19.40	19.40	19.40
20	PI/2 BPSK	1	0	18.72	18.77	18.74	19.40	19.40	19.40
20	PI/2 BPSK	1	50	18.51	18.49	18.54	19.40	19.40	19.40
20	PI/2 BPSK	50	0	18.67	18.73	18.72	19.40	19.40	19.40
20	QPSK	1	1	18.75	18.77	18.69	19.40	19.40	19.40
20	QPSK	1	49	18.49	18.48	18.43	19.40	19.40	19.40
20	QPSK	25	12	18.73	18.69	18.65	19.40	19.40	19.40
20	QPSK	1	0	18.64	18.73	18.66	19.40	19.40	19.40
20	QPSK	1	50	18.47	18.49	18.45	19.40	19.40	19.40
20	QPSK	50	0	18.72	18.71	18.64	19.40	19.40	19.40
20	16QAM	1	1	18.75	18.73	18.71	19.40	19.40	19.40
20	64QAM	1	1	18.69	18.70	18.72	19.40	19.40	19.40
20	256QAM	1	1	18.69	18.65	18.49	19.40	19.40	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	18.73	18.78	18.72	19.40	19.40	19.40
15	PI/2 BPSK	1	36	18.48	18.49	18.43	19.40	19.40	19.40
15	PI/2 BPSK	18	9	18.66	18.74	18.66	19.40	19.40	19.40
15	PI/2 BPSK	1	0	18.62	18.68	18.69	19.40	19.40	19.40
15	PI/2 BPSK	1	37	18.45	18.44	18.46	19.40	19.40	19.40
15	PI/2 BPSK	36	0	18.64	18.63	18.69	19.40	19.40	19.40
15	QPSK	1	1	18.67	18.69	18.64	19.40	19.40	19.40
15	QPSK	1	36	18.46	18.46	18.40	19.40	19.40	19.40
15	QPSK	18	9	18.70	18.65	18.55	19.40	19.40	19.40
15	QPSK	1	0	18.59	18.72	18.61	19.40	19.40	19.40
15	QPSK	1	37	18.45	18.47	18.43	19.40	19.40	19.40
15	QPSK	36	0	18.71	18.70	18.62	19.40	19.40	19.40
15	16QAM	1	1	18.73	18.68	18.63	19.40	19.40	19.40
15	64QAM	1	1	18.45	18.62	18.70	19.00	19.40	19.40
15	256QAM	1	1	18.60	18.62	18.46	19.40	19.40	19.40
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	18.71	18.75	18.65	19.40	19.40	19.40
10	PI/2 BPSK	1	22	18.45	18.41	18.40	19.40	19.40	19.40
10	PI/2 BPSK	12	6	18.68	18.74	18.69	19.40	19.40	19.40
10	PI/2 BPSK	1	0	18.69	18.70	18.69	19.40	19.40	19.40
10	PI/2 BPSK	1	23	18.47	18.48	18.44	19.40	19.40	19.40
10	PI/2 BPSK	24	0	18.57	18.71	18.67	19.40	19.40	19.40
10	QPSK	1	1	18.67	18.70	18.59	19.40	19.40	19.40
10	QPSK	1	22	18.46	18.38	18.36	19.40	19.40	19.40
10	QPSK	12	6	18.72	18.67	18.56	19.40	19.40	19.40
10	QPSK	1	0	18.59	18.67	18.64	19.40	19.40	19.40
10	QPSK	1	23	18.46	18.42	18.41	19.40	19.40	19.40
10	QPSK	24	0	18.66	18.67	18.58	19.40	19.40	19.40
10	16QAM	1	1	18.73	18.65	18.65	19.40	19.40	19.40
10	64QAM	1	1	18.65	18.62	18.62	19.40	19.40	19.40
10	256QAM	1	1	18.60	18.60	18.41	19.40	19.40	19.40





**FCC SAR TEST REPORT**

**Report No. :FA451606B**

<FR1 n48_Ant 2_Index 5/6>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
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	13.34	19.75	12.98	14.00	20.50	13.50
40	PI/2 BPSK	1	104	12.91	19.31	12.67	13.50	20.00	13.50
40	PI/2 BPSK	50	25	13.09	19.88	12.80	14.00	20.90	13.50
40	PI/2 BPSK	1	0	13.28	19.80	12.95	14.00	20.50	13.50
40	PI/2 BPSK	1	105	12.93	19.28	12.63	13.50	20.00	13.50
40	PI/2 BPSK	100	0	13.08	19.09	12.70	14.00	20.00	13.50
40	QPSK	1	1	9.85	19.73	9.45	10.50	20.50	10.00
40	QPSK	1	104	9.39	19.28	9.11	10.00	20.00	10.00
40	QPSK	50	25	9.56	19.73	9.20	10.50	20.90	10.00
40	QPSK	1	0	9.75	19.79	9.47	10.50	20.50	10.00
40	QPSK	1	105	9.31	19.22	9.12	10.00	20.00	10.00
40	QPSK	100	0	9.57	19.06	9.21	10.50	20.00	10.00
40	16QAM	1	1	9.81	19.78	9.46	10.50	20.90	10.00
40	64QAM	1	1	9.82	19.86	9.42	10.50	20.50	10.00
40	256QAM	1	1	9.69	19.22	9.48	10.50	20.00	10.00
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	19.68	19.81	19.71	20.50	20.90	20.90
20	PI/2 BPSK	1	49	19.70	19.78	19.19	20.90	20.90	20.00
20	PI/2 BPSK	25	12	19.70	19.78	19.75	20.90	20.90	20.90
20	PI/2 BPSK	1	0	19.73	19.86	19.75	20.50	20.90	20.90
20	PI/2 BPSK	1	50	19.66	19.83	19.26	20.90	20.90	20.00
20	PI/2 BPSK	50	0	19.57	19.77	19.39	20.50	20.90	20.00
20	QPSK	1	1	19.66	19.71	19.65	20.50	20.90	20.90
20	QPSK	1	49	19.15	19.18	19.28	20.90	20.90	20.00
20	QPSK	25	12	19.60	19.68	19.58	20.90	20.90	20.90
20	QPSK	1	0	19.67	19.69	19.60	20.50	20.90	20.90
20	QPSK	1	50	19.10	19.19	19.29	20.90	20.90	20.00
20	QPSK	50	0	19.61	18.99	19.42	20.50	20.90	20.00
20	16QAM	1	1	18.67	19.70	19.65	19.50	20.90	20.90
20	64QAM	1	1	18.63	19.79	19.60	19.50	20.90	20.90
20	256QAM	1	1	19.23	19.24	18.49	20.00	20.00	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	19.61	19.73	19.66	20.50	20.90	20.90
15	PI/2 BPSK	1	36	19.65	19.75	19.22	20.90	20.90	20.00
15	PI/2 BPSK	18	9	19.63	19.72	19.66	20.90	20.90	20.90
15	PI/2 BPSK	1	0	19.63	19.84	19.70	20.50	20.90	20.90
15	PI/2 BPSK	1	37	19.65	19.81	19.21	20.90	20.90	20.00
15	PI/2 BPSK	36	0	19.51	19.70	19.41	20.50	20.90	20.00
15	QPSK	1	1	19.69	19.67	19.60	20.50	20.90	20.90
15	QPSK	1	36	19.10	19.12	19.20	20.90	20.90	20.00
15	QPSK	18	9	19.55	19.62	19.50	20.90	20.90	20.90
15	QPSK	1	0	19.65	19.68	19.62	20.50	20.90	20.90
15	QPSK	1	37	19.10	19.16	19.26	20.90	20.90	20.00
15	QPSK	36	0	19.56	18.90	19.44	20.50	20.90	20.00
15	16QAM	1	1	18.62	19.69	19.58	19.50	20.90	20.90
15	64QAM	1	1	18.45	19.71	20.78	19.00	20.90	20.90
15	256QAM	1	1	19.15	19.16	18.81	20.00	20.00	19.50
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



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**Report No. :FA451606B**

10	PI/2 BPSK	1	1	19.68	19.65	19.68	20.90	20.90	20.90
10	PI/2 BPSK	1	22	19.70	19.66	19.73	20.90	20.90	20.90
10	PI/2 BPSK	12	6	19.69	19.62	19.62	20.90	20.90	20.90
10	PI/2 BPSK	1	0	19.77	19.74	19.83	20.90	20.90	20.90
10	PI/2 BPSK	1	23	19.77	19.75	19.73	20.90	20.90	20.90
10	PI/2 BPSK	24	0	19.68	19.62	19.68	20.90	20.90	20.90
10	QPSK	1	1	19.60	19.63	19.59	20.90	20.90	20.90
10	QPSK	1	22	19.07	19.06	19.09	20.90	20.90	20.90
10	QPSK	12	6	19.58	19.57	19.56	20.90	20.90	20.90
10	QPSK	1	0	19.58	19.63	19.60	20.90	20.90	20.90
10	QPSK	1	23	19.11	19.14	19.08	20.90	20.90	20.90
10	QPSK	24	0	19.55	18.95	19.35	20.90	20.90	20.90
10	16QAM	1	1	19.64	19.68	19.67	20.90	20.90	20.90
10	64QAM	1	1	19.66	19.63	19.69	20.90	20.90	20.90
10	256QAM	1	1	19.16	18.94	19.10	20.00	19.50	20.00



<FR1 n48_Ant 5_Index 2>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
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	13.79	14.37	13.50	14.50	15.90	14.50
40	PI/2 BPSK	1	104	13.42	14.29	13.12	14.00	15.90	14.00
40	PI/2 BPSK	50	25	13.58	14.49	13.25	14.50	15.90	14.00
40	PI/2 BPSK	1	0	13.78	14.25	13.45	14.50	15.90	14.00
40	PI/2 BPSK	1	105	13.39	14.36	13.17	14.00	15.90	14.00
40	PI/2 BPSK	100	0	13.58	14.50	13.32	14.50	15.90	14.00
40	QPSK	1	1	10.22	14.39	9.92	11.00	15.90	10.50
40	QPSK	1	104	9.87	14.36	9.61	10.50	15.90	10.50
40	QPSK	50	25	10.09	14.27	9.73	11.00	15.90	10.50
40	QPSK	1	0	10.19	14.31	10.00	11.00	15.90	11.00
40	QPSK	1	105	9.82	14.27	9.69	10.50	15.90	10.50
40	QPSK	100	0	10.07	14.34	9.77	11.00	15.90	10.50
40	16QAM	1	1	10.43	14.31	10.00	11.00	15.90	11.00
40	64QAM	1	1	10.02	14.41	10.11	11.00	15.90	11.00
40	256QAM	1	1	10.20	14.38	9.83	11.00	15.90	10.50
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	14.65	14.48	14.59	15.90	15.90	15.90
20	PI/2 BPSK	1	49	14.39	14.53	14.58	15.90	15.90	15.90
20	PI/2 BPSK	25	12	14.60	14.48	14.30	15.90	15.90	15.90
20	PI/2 BPSK	1	0	14.51	14.47	14.57	15.90	15.90	15.90
20	PI/2 BPSK	1	50	14.54	14.56	14.39	15.90	15.90	15.90
20	PI/2 BPSK	50	0	14.51	14.39	14.56	15.90	15.90	15.90
20	QPSK	1	1	14.51	14.41	14.44	15.90	15.90	15.90
20	QPSK	1	49	14.44	14.59	14.48	15.90	15.90	15.90
20	QPSK	25	12	14.43	14.39	14.54	15.90	15.90	15.90
20	QPSK	1	0	14.52	14.42	14.51	15.90	15.90	15.90
20	QPSK	1	50	14.50	14.43	14.46	15.90	15.90	15.90
20	QPSK	50	0	14.48	14.44	14.50	15.90	15.90	15.90
20	16QAM	1	1	14.53	14.47	14.59	15.90	15.90	15.90
20	64QAM	1	1	14.50	14.50	14.54	15.90	15.90	15.90
20	256QAM	1	1	14.49	14.50	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	14.64	14.36	14.55	15.90	15.90	15.90
15	PI/2 BPSK	1	36	14.34	14.47	14.55	15.90	15.90	15.90
15	PI/2 BPSK	18	9	14.55	14.38	14.13	15.90	15.90	15.90
15	PI/2 BPSK	1	0	14.39	14.47	14.49	15.90	15.90	15.90
15	PI/2 BPSK	1	37	14.50	14.50	14.29	15.90	15.90	15.90
15	PI/2 BPSK	36	0	14.51	14.23	14.55	15.90	15.90	15.90
15	QPSK	1	1	14.36	14.33	14.28	15.90	15.90	15.90
15	QPSK	1	36	14.43	14.41	14.35	15.90	15.90	15.90
15	QPSK	18	9	14.32	14.29	14.43	15.90	15.90	15.90
15	QPSK	1	0	14.43	14.27	14.43	15.90	15.90	15.90
15	QPSK	1	37	14.50	14.35	14.34	15.90	15.90	15.90
15	QPSK	36	0	14.42	14.36	14.45	15.90	15.90	15.90
15	16QAM	1	1	14.40	14.31	14.55	15.90	15.90	15.90
15	64QAM	1	1	14.37	14.39	14.37	15.90	15.90	15.90
15	256QAM	1	1	14.43	14.49	14.30	15.90	15.90	15.90
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



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**Report No. :FA451606B**

10	PI/2 BPSK	1	1	14.52	14.35	14.50	15.90	15.90	15.90
10	PI/2 BPSK	1	22	14.37	14.50	14.38	15.90	15.90	15.90
10	PI/2 BPSK	12	6	14.44	14.41	14.17	15.90	15.90	15.90
10	PI/2 BPSK	1	0	14.41	14.46	14.41	15.90	15.90	15.90
10	PI/2 BPSK	1	23	14.47	14.44	14.23	15.90	15.90	15.90
10	PI/2 BPSK	24	0	14.38	14.28	14.49	15.90	15.90	15.90
10	QPSK	1	1	14.46	14.40	14.36	15.90	15.90	15.90
10	QPSK	1	22	14.31	14.43	14.40	15.90	15.90	15.90
10	QPSK	12	6	14.27	14.28	14.52	15.90	15.90	15.90
10	QPSK	1	0	14.41	14.27	14.45	15.90	15.90	15.90
10	QPSK	1	23	14.38	14.31	14.27	15.90	15.90	15.90
10	QPSK	24	0	14.30	14.37	14.35	15.90	15.90	15.90
10	16QAM	1	1	14.35	14.39	14.51	15.90	15.90	15.90
10	64QAM	1	1	14.38	14.47	14.37	15.90	15.90	15.90
10	256QAM	1	1	14.33	14.48	14.39	15.90	15.90	15.90



<FR1 n48_Ant 5_Index 3>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
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	13.79	14.37	13.50	14.50	15.20	14.50
40	PI/2 BPSK	1	104	13.42	14.29	13.12	14.00	15.20	14.00
40	PI/2 BPSK	50	25	13.58	14.49	13.25	14.50	15.20	14.00
40	PI/2 BPSK	1	0	13.78	14.25	13.45	14.50	15.20	14.00
40	PI/2 BPSK	1	105	13.39	14.36	13.17	14.00	15.20	14.00
40	PI/2 BPSK	100	0	13.58	14.50	13.32	14.50	15.20	14.00
40	QPSK	1	1	10.22	14.39	9.92	11.00	15.20	10.50
40	QPSK	1	104	9.87	14.36	9.61	10.50	15.20	10.50
40	QPSK	50	25	10.09	14.27	9.73	11.00	15.20	10.50
40	QPSK	1	0	10.19	14.31	10.00	11.00	15.20	11.00
40	QPSK	1	105	9.82	14.27	9.69	10.50	15.20	10.50
40	QPSK	100	0	10.07	14.34	9.77	11.00	15.20	10.50
40	16QAM	1	1	10.43	14.31	10.00	11.00	15.20	11.00
40	64QAM	1	1	10.02	14.41	10.11	11.00	15.20	11.00
40	256QAM	1	1	10.20	14.38	9.83	11.00	15.20	10.50
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	14.65	14.48	14.59	15.20	15.20	15.20
20	PI/2 BPSK	1	49	14.39	14.53	14.58	15.20	15.20	15.20
20	PI/2 BPSK	25	12	14.60	14.48	14.30	15.20	15.20	15.20
20	PI/2 BPSK	1	0	14.51	14.47	14.57	15.20	15.20	15.20
20	PI/2 BPSK	1	50	14.54	14.56	14.39	15.20	15.20	15.20
20	PI/2 BPSK	50	0	14.51	14.39	14.56	15.20	15.20	15.20
20	QPSK	1	1	14.51	14.41	14.44	15.20	15.20	15.20
20	QPSK	1	49	14.44	14.59	14.48	15.20	15.20	15.20
20	QPSK	25	12	14.43	14.39	14.54	15.20	15.20	15.20
20	QPSK	1	0	14.52	14.42	14.51	15.20	15.20	15.20
20	QPSK	1	50	14.50	14.43	14.46	15.20	15.20	15.20
20	QPSK	50	0	14.48	14.44	14.50	15.20	15.20	15.20
20	16QAM	1	1	14.53	14.47	14.59	15.20	15.20	15.20
20	64QAM	1	1	14.50	14.50	14.54	15.20	15.20	15.20
20	256QAM	1	1	14.49	14.50	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	14.64	14.36	14.55	15.20	15.20	15.20
15	PI/2 BPSK	1	36	14.34	14.47	14.55	15.20	15.20	15.20
15	PI/2 BPSK	18	9	14.55	14.38	14.13	15.20	15.20	15.20
15	PI/2 BPSK	1	0	14.39	14.47	14.49	15.20	15.20	15.20
15	PI/2 BPSK	1	37	14.50	14.50	14.29	15.20	15.20	15.20
15	PI/2 BPSK	36	0	14.51	14.23	14.55	15.20	15.20	15.20
15	QPSK	1	1	14.36	14.33	14.28	15.20	15.20	15.20
15	QPSK	1	36	14.43	14.41	14.35	15.20	15.20	15.20
15	QPSK	18	9	14.32	14.29	14.43	15.20	15.20	15.20
15	QPSK	1	0	14.43	14.27	14.43	15.20	15.20	15.20
15	QPSK	1	37	14.50	14.35	14.34	15.20	15.20	15.20
15	QPSK	36	0	14.42	14.36	14.45	15.20	15.20	15.20
15	16QAM	1	1	14.40	14.31	14.55	15.20	15.20	15.20
15	64QAM	1	1	14.37	14.39	14.37	15.20	15.20	15.20
15	256QAM	1	1	14.43	14.49	14.30	15.20	15.20	15.20
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	14.52	14.35	14.50	15.20	15.20	15.20
10	PI/2 BPSK	1	22	14.37	14.50	14.38	15.20	15.20	15.20
10	PI/2 BPSK	12	6	14.44	14.41	14.17	15.20	15.20	15.20
10	PI/2 BPSK	1	0	14.41	14.46	14.41	15.20	15.20	15.20
10	PI/2 BPSK	1	23	14.47	14.44	14.23	15.20	15.20	15.20
10	PI/2 BPSK	24	0	14.38	14.28	14.49	15.20	15.20	15.20
10	QPSK	1	1	14.46	14.40	14.36	15.20	15.20	15.20
10	QPSK	1	22	14.31	14.43	14.40	15.20	15.20	15.20
10	QPSK	12	6	14.27	14.28	14.52	15.20	15.20	15.20
10	QPSK	1	0	14.41	14.27	14.45	15.20	15.20	15.20
10	QPSK	1	23	14.38	14.31	14.27	15.20	15.20	15.20
10	QPSK	24	0	14.30	14.37	14.35	15.20	15.20	15.20
10	16QAM	1	1	14.35	14.39	14.51	15.20	15.20	15.20
10	64QAM	1	1	14.38	14.47	14.37	15.20	15.20	15.20
10	256QAM	1	1	14.33	14.48	14.39	15.20	15.20	15.20



<FR1 n48_Ant 5_Index 4/6>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
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	13.79	19.04	13.50	14.50	20.60	14.50
40	PI/2 BPSK	1	104	13.42	19.03	13.12	14.00	20.50	14.00
40	PI/2 BPSK	50	25	13.58	19.72	13.25	14.50	20.60	14.00
40	PI/2 BPSK	1	0	13.78	19.10	13.45	14.50	20.60	14.00
40	PI/2 BPSK	1	105	13.39	19.01	13.17	14.00	20.50	14.00
40	PI/2 BPSK	100	0	13.58	19.55	13.32	14.50	20.50	14.00
40	QPSK	1	1	10.22	19.05	9.92	11.00	20.60	10.50
40	QPSK	1	104	9.87	19.83	9.61	10.50	20.50	10.50
40	QPSK	50	25	10.09	19.62	9.73	11.00	20.60	10.50
40	QPSK	1	0	10.19	19.03	10.00	11.00	20.60	11.00
40	QPSK	1	105	9.82	19.79	9.69	10.50	20.50	10.50
40	QPSK	100	0	10.07	19.54	9.77	11.00	20.50	10.50
40	16QAM	1	1	10.43	19.33	10.00	11.00	20.60	11.00
40	64QAM	1	1	10.02	19.02	10.11	11.00	20.60	11.00
40	256QAM	1	1	10.20	18.88	9.83	11.00	20.50	10.50
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	19.04	19.57	19.34	20.60	20.60	20.60
20	PI/2 BPSK	1	49	19.27	19.45	19.30	20.60	20.60	20.50
20	PI/2 BPSK	25	12	19.41	19.45	19.42	20.60	20.60	20.60
20	PI/2 BPSK	1	0	19.03	19.44	19.30	20.60	20.60	20.60
20	PI/2 BPSK	1	50	19.22	19.46	19.33	20.60	20.60	20.50
20	PI/2 BPSK	50	0	19.12	19.46	19.58	20.60	20.60	20.50
20	QPSK	1	1	19.05	19.33	19.46	20.60	20.60	20.60
20	QPSK	1	49	19.33	19.35	19.62	20.60	20.60	20.50
20	QPSK	25	12	19.42	19.33	19.23	20.60	20.60	20.60
20	QPSK	1	0	19.03	19.26	19.21	20.60	20.60	20.60
20	QPSK	1	50	19.23	19.39	19.65	20.60	20.60	20.50
20	QPSK	50	0	19.01	19.26	19.60	20.60	20.60	20.50
20	16QAM	1	1	19.08	19.31	19.22	20.00	20.60	20.60
20	64QAM	1	1	19.06	19.60	19.32	20.00	20.60	20.60
20	256QAM	1	1	19.76	19.40	19.07	20.50	20.00	20.00
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	18.96	19.54	19.20	20.60	20.60	20.60
15	PI/2 BPSK	1	36	19.24	19.35	19.24	20.60	20.60	20.50
15	PI/2 BPSK	18	9	19.38	19.39	19.31	20.60	20.60	20.60
15	PI/2 BPSK	1	0	18.88	19.40	19.18	20.60	20.60	20.60
15	PI/2 BPSK	1	37	19.07	19.33	19.28	20.60	20.60	20.50
15	PI/2 BPSK	36	0	19.05	19.35	19.54	20.50	20.60	20.50
15	QPSK	1	1	18.99	19.19	19.33	20.60	20.60	20.60
15	QPSK	1	36	19.20	19.32	19.58	20.60	20.60	20.50
15	QPSK	18	9	19.39	19.29	19.12	20.60	20.60	20.60
15	QPSK	1	0	18.90	19.14	19.15	20.60	20.60	20.60
15	QPSK	1	37	19.17	19.26	19.50	20.60	20.60	20.50
15	QPSK	36	0	18.97	19.15	19.57	20.50	20.60	20.50
15	16QAM	1	1	18.99	19.22	19.33	19.50	20.60	20.60
15	64QAM	1	1	19.36	19.19	19.22	20.00	20.60	20.60
15	256QAM	1	1	19.60	19.65	19.09	20.50	20.50	20.00
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



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10	PI/2 BPSK	1	1	18.93	19.52	19.30	20.60	20.60	20.60
10	PI/2 BPSK	1	22	19.20	19.37	19.22	20.60	20.60	20.60
10	PI/2 BPSK	12	6	19.38	19.35	19.39	20.60	20.60	20.60
10	PI/2 BPSK	1	0	18.96	19.36	19.26	20.60	20.60	20.60
10	PI/2 BPSK	1	23	19.15	19.40	19.30	20.60	20.60	20.60
10	PI/2 BPSK	24	0	19.02	19.38	19.51	20.60	20.60	20.60
10	QPSK	1	1	18.94	19.24	19.39	20.60	20.60	20.60
10	QPSK	1	22	19.30	19.26	19.57	20.60	20.60	20.60
10	QPSK	12	6	19.34	19.23	19.13	20.60	20.60	20.60
10	QPSK	1	0	18.93	19.22	19.18	20.60	20.60	20.60
10	QPSK	1	23	19.17	19.32	19.57	20.60	20.60	20.60
10	QPSK	24	0	18.92	19.20	19.55	20.60	20.60	20.60
10	16QAM	1	1	19.00	19.26	19.15	20.60	20.60	20.60
10	64QAM	1	1	19.02	19.54	19.27	20.60	20.60	20.60
10	256QAM	1	1	19.31	19.89	18.97	20.00	20.50	19.50





**FCC SAR TEST REPORT**

**Report No. :FA451606B**

<FR1 n48_Ant 5_Index 5>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
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	13.79	20.04	13.50	14.50	21.00	14.50
40	PI/2 BPSK	1	104	13.42	19.84	13.12	14.00	20.50	14.00
40	PI/2 BPSK	50	25	13.58	21.66	13.25	14.50	22.60	14.00
40	PI/2 BPSK	1	0	13.78	20.07	13.45	14.50	21.00	14.00
40	PI/2 BPSK	1	105	13.39	19.83	13.17	14.00	20.50	14.00
40	PI/2 BPSK	100	0	13.58	19.55	13.32	14.50	20.50	14.00
40	QPSK	1	1	10.22	20.05	9.92	11.00	21.00	10.50
40	QPSK	1	104	9.87	19.83	9.61	10.50	20.50	10.50
40	QPSK	50	25	10.09	21.61	9.73	11.00	22.60	10.50
40	QPSK	1	0	10.19	20.08	10.00	11.00	21.00	11.00
40	QPSK	1	105	9.82	19.79	9.69	10.50	20.50	10.50
40	QPSK	100	0	10.07	19.54	9.77	11.00	20.50	10.50
40	16QAM	1	1	10.43	20.34	10.00	11.00	21.00	11.00
40	64QAM	1	1	10.02	20.02	10.11	11.00	21.00	11.00
40	256QAM	1	1	10.20	19.75	9.83	11.00	20.50	10.50
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	20.04	21.57	21.34	21.00	22.60	22.60
20	PI/2 BPSK	1	49	21.27	21.45	19.63	22.60	22.60	20.50
20	PI/2 BPSK	25	12	21.42	21.43	21.39	22.60	22.60	22.60
20	PI/2 BPSK	1	0	20.02	21.44	21.30	21.00	22.60	22.60
20	PI/2 BPSK	1	50	21.22	21.46	19.63	22.60	22.60	20.50
20	PI/2 BPSK	50	0	20.03	21.44	19.58	21.00	22.60	20.50
20	QPSK	1	1	20.11	21.33	21.46	21.00	22.60	22.60
20	QPSK	1	49	21.33	21.35	19.62	22.60	22.60	20.50
20	QPSK	25	12	21.42	21.33	21.23	22.60	22.60	22.60
20	QPSK	1	0	20.08	21.26	21.21	21.00	22.60	22.60
20	QPSK	1	50	21.23	21.39	19.65	22.60	22.60	20.50
20	QPSK	50	0	20.01	21.26	19.60	21.00	22.60	20.50
20	16QAM	1	1	19.08	21.31	21.22	20.00	22.60	22.60
20	64QAM	1	1	19.06	21.60	21.32	20.00	22.50	22.00
20	256QAM	1	1	19.76	19.40	19.07	20.50	20.00	20.00
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	20.01	21.28	21.25	21.00	22.60	22.60
15	PI/2 BPSK	1	36	21.27	21.26	19.64	22.60	22.60	20.50
15	PI/2 BPSK	18	9	21.27	21.29	21.33	22.60	22.60	22.60
15	PI/2 BPSK	1	0	20.01	21.23	21.26	21.00	22.60	22.60
15	PI/2 BPSK	1	37	21.23	21.24	19.63	22.60	22.60	20.50
15	PI/2 BPSK	36	0	19.95	21.29	19.58	20.50	22.60	20.50
15	QPSK	1	1	20.05	21.26	21.27	21.00	22.60	22.60
15	QPSK	1	36	21.25	21.27	19.68	22.60	22.60	20.50
15	QPSK	18	9	21.26	21.33	21.26	22.60	22.60	22.60
15	QPSK	1	0	20.04	21.27	21.24	21.00	22.60	22.60
15	QPSK	1	37	21.32	21.28	19.69	22.60	22.60	20.50
15	QPSK	36	0	19.96	21.32	19.62	20.50	22.60	20.50
15	16QAM	1	1	18.99	21.31	21.32	19.50	22.60	22.60
15	64QAM	1	1	19.36	21.41	21.54	20.00	22.00	22.50
15	256QAM	1	1	19.60	19.65	19.09	20.50	20.50	20.00
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



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10	PI/2 BPSK	1	1	21.28	21.26	21.38	22.60	22.60	22.60
10	PI/2 BPSK	1	22	21.36	21.31	21.31	22.60	22.60	22.60
10	PI/2 BPSK	12	6	21.23	21.30	21.39	22.60	22.60	22.60
10	PI/2 BPSK	1	0	20.45	21.27	21.39	21.00	22.60	22.60
10	PI/2 BPSK	1	23	21.35	21.29	21.41	22.60	22.60	22.60
10	PI/2 BPSK	24	0	21.33	21.40	21.41	22.60	22.60	22.60
10	QPSK	1	1	21.26	21.27	21.32	22.60	22.60	22.60
10	QPSK	1	22	21.28	21.40	21.33	22.60	22.60	22.60
10	QPSK	12	6	21.29	21.37	21.27	22.60	22.60	22.60
10	QPSK	1	0	21.40	21.24	21.25	22.60	22.60	22.60
10	QPSK	1	23	21.37	21.42	21.23	22.60	22.60	22.60
10	QPSK	24	0	21.24	21.26	21.32	22.60	22.60	22.60
10	16QAM	1	1	21.25	21.39	21.35	22.60	22.60	22.60
10	64QAM	1	1	21.51	21.40	21.26	22.50	22.00	22.00
10	256QAM	1	1	19.31	19.89	18.97	20.00	20.50	19.50



<FR1 n66\_Ant 0\_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.30	24.35	24.26	25.2
40	PI/2 BPSK	1	108	24.28	24.28	24.18	
40	PI/2 BPSK	1	214	24.08	24.14	24.14	
40	PI/2 BPSK	108	0	23.80	23.88	23.83	24.7
40	PI/2 BPSK	108	54	24.23	24.29	24.23	25.2
40	PI/2 BPSK	108	108	23.72	23.82	23.73	24.7
40	PI/2 BPSK	216	0	23.73	23.83	23.74	
40	QPSK	1	1	24.34	24.34	24.26	25.2
40	QPSK	1	108	24.25	24.29	24.21	
40	QPSK	1	214	24.02	24.09	24.09	
40	QPSK	108	0	23.33	23.37	23.31	24.2
40	QPSK	108	54	24.12	24.22	24.22	25.2
40	QPSK	108	108	23.29	23.31	23.28	24.2
40	QPSK	216	0	23.26	23.33	23.26	
40	16QAM	1	1	23.02	23.02	22.96	24.2
40	64QAM	1	1	21.89	21.99	21.93	22.7
40	256QAM	1	1	19.72	19.73	19.69	20.7
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.25	24.33	24.22	25.2
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.30	24.31	24.17	25.2
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.27	24.31	24.18	25.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.27	24.32	24.17	25.2
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.27	24.31	24.16	25.2
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.24	24.32	24.21	25.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.30	24.35	24.26	25.2
40	PI/2 BPSK	1	108	24.28	24.28	24.18	
40	PI/2 BPSK	1	214	24.08	24.14	24.14	
40	PI/2 BPSK	108	0	23.80	23.88	23.83	24.7
40	PI/2 BPSK	108	54	24.23	24.29	24.23	25.2
40	PI/2 BPSK	108	108	23.72	23.82	23.73	24.7
40	PI/2 BPSK	216	0	23.73	23.83	23.74	
40	QPSK	1	1	24.34	24.34	24.26	25.2
40	QPSK	1	108	24.25	24.29	24.21	
40	QPSK	1	214	24.02	24.09	24.09	
40	QPSK	108	0	23.33	23.37	23.31	24.2
40	QPSK	108	54	24.12	24.22	24.22	25.2
40	QPSK	108	108	23.29	23.31	23.28	24.2
40	QPSK	216	0	23.26	23.33	23.26	
40	16QAM	1	1	23.02	23.02	22.96	24.2
40	64QAM	1	1	21.89	21.99	21.93	22.7
40	256QAM	1	1	19.72	19.73	19.69	20.7
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.25	24.33	24.22	25.2
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.30	24.31	24.17	25.2
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.27	24.31	24.18	25.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.27	24.32	24.17	25.2
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.27	24.31	24.16	25.2
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.24	24.32	24.21	25.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	22.7
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.49	21.68	21.60	22.7
40	PI/2 BPSK	1	108	21.48	21.67	21.59	
40	PI/2 BPSK	1	214	21.24	21.43	21.35	22.7
40	PI/2 BPSK	108	0	21.44	21.63	21.55	
40	PI/2 BPSK	108	54	21.47	21.66	21.58	22.7
40	PI/2 BPSK	108	108	21.36	21.55	21.47	
40	PI/2 BPSK	216	0	21.40	21.59	21.51	22.7
40	QPSK	1	1	21.47	21.66	21.58	
40	QPSK	1	108	21.47	21.66	21.58	22.7
40	QPSK	1	214	21.22	21.41	21.33	
40	QPSK	108	0	21.42	21.61	21.53	22.7
40	QPSK	108	54	21.46	21.65	21.57	
40	QPSK	108	108	21.35	21.54	21.46	22.7
40	QPSK	216	0	21.39	21.58	21.50	
40	16QAM	1	1	21.26	21.45	21.37	22.7
40	64QAM	1	1	21.17	21.36	21.28	
40	256QAM	1	1	19.52	19.69	19.62	20.7
Channel				345000	349000	353000	22.7
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.39	21.57	21.55	22.7
Channel				344500	349000	353500	22.7
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.38	21.57	21.52	22.7
Channel				344000	349000	354000	22.7
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.43	21.56	21.49	22.7
Channel				343500	349000	354500	22.7
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.43	21.57	21.55	22.7
Channel				343000	349000	355000	22.7
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.46	21.59	21.50	22.7
Channel				342500	349000	355500	22.7
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.39	21.61	21.54	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	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.30	24.35	24.26	25.0
40	PI/2 BPSK	1	108	24.28	24.28	24.18	
40	PI/2 BPSK	1	214	24.08	24.14	24.14	
40	PI/2 BPSK	108	0	23.80	23.88	23.83	24.7
40	PI/2 BPSK	108	54	24.23	24.29	24.23	25.0
40	PI/2 BPSK	108	108	23.72	23.82	23.73	24.7
40	PI/2 BPSK	216	0	23.73	23.83	23.74	
40	QPSK	1	1	24.34	24.34	24.26	25.0
40	QPSK	1	108	24.25	24.29	24.21	
40	QPSK	1	214	24.02	24.09	24.09	
40	QPSK	108	0	23.33	23.37	23.31	24.2
40	QPSK	108	54	24.12	24.22	24.22	25.0
40	QPSK	108	108	23.29	23.31	23.28	24.2
40	QPSK	216	0	23.26	23.33	23.26	
40	16QAM	1	1	23.02	23.02	22.96	24.2
40	64QAM	1	1	21.89	21.99	21.93	22.7
40	256QAM	1	1	19.72	19.73	19.69	20.7
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.25	24.33	24.22	25.0
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.30	24.31	24.17	25.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.27	24.31	24.18	25.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.27	24.32	24.17	25.0
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.27	24.31	24.16	25.0
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.24	24.32	24.21	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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.49	21.68	21.60	22.7
40	PI/2 BPSK	1	108	21.48	21.67	21.59	
40	PI/2 BPSK	1	214	21.24	21.43	21.35	
40	PI/2 BPSK	108	0	21.44	21.63	21.55	22.7
40	PI/2 BPSK	108	54	21.47	21.66	21.58	22.7
40	PI/2 BPSK	108	108	21.36	21.55	21.47	22.7
40	PI/2 BPSK	216	0	21.40	21.59	21.51	
40	QPSK	1	1	21.47	21.66	21.58	22.7
40	QPSK	1	108	21.47	21.66	21.58	
40	QPSK	1	214	21.22	21.41	21.33	
40	QPSK	108	0	21.42	21.61	21.53	22.7
40	QPSK	108	54	21.46	21.65	21.57	22.7
40	QPSK	108	108	21.35	21.54	21.46	22.7
40	QPSK	216	0	21.39	21.58	21.50	
40	16QAM	1	1	21.26	21.45	21.37	22.7
40	64QAM	1	1	21.17	21.36	21.28	22.7
40	256QAM	1	1	19.52	19.69	19.62	20.7
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.39	21.57	21.55	22.7
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.38	21.57	21.52	22.7
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.43	21.56	21.49	22.7
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.43	21.57	21.55	22.7
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.46	21.59	21.50	22.7
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.39	21.61	21.54	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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		24.16		25.2
15	PI/2 BPSK	1	40		24.01		
15	PI/2 BPSK	1	77		24.04		
15	PI/2 BPSK	36	0		23.54		24.7
15	PI/2 BPSK	36	22		24.12		25.2
15	PI/2 BPSK	36	43		23.62		24.7
15	PI/2 BPSK	75	0		23.63		
15	QPSK	1	1		24.13		25.2
15	QPSK	1	40		24.11		
15	QPSK	1	77		24.10		
15	QPSK	36	0		23.11		24.2
15	QPSK	36	22		24.15		25.2
15	QPSK	36	43		23.14		24.2
15	QPSK	75	0		23.15		
15	16QAM	1	1		23.12		24.2
15	64QAM	1	1		21.72		22.7
15	256QAM	1	1		19.60		20.7
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	24.08	24.10	24.11	25.2
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	24.10	24.09	24.05	25.2

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		24.16		25.2
15	PI/2 BPSK	1	40		24.01		
15	PI/2 BPSK	1	77		24.04		
15	PI/2 BPSK	36	0		23.54		24.7
15	PI/2 BPSK	36	22		24.12		25.2
15	PI/2 BPSK	36	43		23.62		24.7
15	PI/2 BPSK	75	0		23.63		
15	QPSK	1	1		24.13		25.2
15	QPSK	1	40		24.11		
15	QPSK	1	77		24.10		
15	QPSK	36	0		23.11		24.2
15	QPSK	36	22		24.15		25.2
15	QPSK	36	43		23.14		24.2
15	QPSK	75	0		23.15		
15	16QAM	1	1		23.12		24.2
15	64QAM	1	1		21.72		22.7
15	256QAM	1	1		19.60		20.7
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	24.08	24.10	24.11	25.2
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	24.10	24.09	24.05	25.2





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		20.59		21.4
15	PI/2 BPSK	1	40		20.57		
15	PI/2 BPSK	1	77		20.54		
15	PI/2 BPSK	36	0		20.61		21.4
15	PI/2 BPSK	36	22		20.65		21.4
15	PI/2 BPSK	36	43		20.59		21.4
15	PI/2 BPSK	75	0		20.64		
15	QPSK	1	1		20.57		21.4
15	QPSK	1	40		20.56		
15	QPSK	1	77		20.53		
15	QPSK	36	0		20.61		21.4
15	QPSK	36	22		20.63		21.4
15	QPSK	36	43		20.55		21.4
15	QPSK	75	0		20.63		
15	16QAM	1	1		20.55		21.4
15	64QAM	1	1		20.52		21.4
15	256QAM	1	1		19.51		20.7
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	20.55	20.51	20.56	21.4
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	20.49	20.46	20.52	21.4

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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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		22.66		24.5
15	PI/2 BPSK	1	40		22.65		
15	PI/2 BPSK	1	77		22.64		
15	PI/2 BPSK	36	0		22.73		24.5
15	PI/2 BPSK	36	22		22.79		24.5
15	PI/2 BPSK	36	43		22.72		24.5
15	PI/2 BPSK	75	0		22.76		
15	QPSK	1	1		22.55		24.5
15	QPSK	1	40		22.60		
15	QPSK	1	77		22.59		
15	QPSK	36	0		22.62		24.2
15	QPSK	36	22		22.67		24.5
15	QPSK	36	43		22.60		24.2
15	QPSK	75	0		22.66		
15	16QAM	1	1		22.42		24.2
15	64QAM	1	1		21.12		22.7
15	256QAM	1	1		19.55		20.7
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	22.65	22.64	22.65	24.5
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	22.63	22.65	22.59	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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		20.59		21.4
15	PI/2 BPSK	1	40		20.57		
15	PI/2 BPSK	1	77		20.54		
15	PI/2 BPSK	36	0		20.61		21.4
15	PI/2 BPSK	36	22		20.65		21.4
15	PI/2 BPSK	36	43		20.59		21.4
15	PI/2 BPSK	75	0		20.64		
15	QPSK	1	1		20.57		21.4
15	QPSK	1	40		20.56		
15	QPSK	1	77		20.53		
15	QPSK	36	0		20.61		21.4
15	QPSK	36	22		20.63		21.4
15	QPSK	36	43		20.55		21.4
15	QPSK	75	0		20.63		
15	16QAM	1	1		20.55		21.4
15	64QAM	1	1		20.52		21.4
15	256QAM	1	1		19.51		20.7
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	20.55	20.51	20.56	21.4
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	20.49	20.46	20.52	21.4



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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				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	21.61	21.67	21.57	23.3
20	PI/2 BPSK	1	53	21.58	21.65	21.56	
20	PI/2 BPSK	1	104	21.40	21.47	21.39	
20	PI/2 BPSK	50	0	21.49	21.54	21.46	23.3
20	PI/2 BPSK	50	28	21.54	21.60	21.50	23.3
20	PI/2 BPSK	50	56	21.39	21.47	21.39	23.3
20	PI/2 BPSK	100	0	21.43	21.51	21.41	
20	QPSK	1	1	21.57	21.65	21.54	23.3
20	QPSK	1	53	21.57	21.65	21.55	
20	QPSK	1	104	21.42	21.47	21.39	
20	QPSK	50	0	21.51	21.56	21.48	23.3
20	QPSK	50	28	21.51	21.56	21.48	23.3
20	QPSK	50	56	21.39	21.46	21.38	23.3
20	QPSK	100	0	21.46	21.53	21.43	
20	16QAM	1	1	21.52	21.58	21.49	23.3
20	64QAM	1	1	21.54	21.60	21.50	22.7
20	256QAM	1	1	19.86	19.92	19.84	20.7
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	21.53	21.57	21.50	23.3
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	21.51	21.61	21.45	23.3
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	21.54	21.58	21.46	23.3



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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				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	21.61	21.67	21.57	21.7
20	PI/2 BPSK	1	53	21.58	21.65	21.56	
20	PI/2 BPSK	1	104	21.40	21.47	21.39	
20	PI/2 BPSK	50	0	21.49	21.54	21.46	21.7
20	PI/2 BPSK	50	28	21.54	21.60	21.50	21.7
20	PI/2 BPSK	50	56	21.39	21.47	21.39	21.7
20	PI/2 BPSK	100	0	21.43	21.51	21.41	
20	QPSK	1	1	21.57	21.65	21.54	21.7
20	QPSK	1	53	21.57	21.65	21.55	
20	QPSK	1	104	21.42	21.47	21.39	
20	QPSK	50	0	21.51	21.56	21.48	21.7
20	QPSK	50	28	21.51	21.56	21.48	21.7
20	QPSK	50	56	21.39	21.46	21.38	21.7
20	QPSK	100	0	21.46	21.53	21.43	
20	16QAM	1	1	21.52	21.58	21.49	21.7
20	64QAM	1	1	21.54	21.60	21.50	21.7
20	256QAM	1	1	19.86	19.92	19.84	20.7
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	21.53	21.57	21.50	21.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	21.51	21.61	21.45	21.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	21.54	21.58	21.46	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				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.22	24.27	24.18	25.2
20	PI/2 BPSK	1	53	24.19	24.26	24.17	
20	PI/2 BPSK	1	104	24.08	24.08	24.01	
20	PI/2 BPSK	50	0	23.68	23.69	23.67	24.7
20	PI/2 BPSK	50	28	24.12	24.17	24.14	25.2
20	PI/2 BPSK	50	56	23.49	23.59	23.50	24.7
20	PI/2 BPSK	100	0	23.59	23.63	23.55	
20	QPSK	1	1	24.05	24.05	23.99	25.2
20	QPSK	1	53	24.14	24.18	24.12	
20	QPSK	1	104	23.86	23.92	23.91	
20	QPSK	50	0	23.18	23.20	23.16	24.2
20	QPSK	50	28	24.14	24.19	24.15	25.2
20	QPSK	50	56	23.02	23.12	23.07	24.2
20	QPSK	100	0	23.12	23.16	23.11	
20	16QAM	1	1	23.02	23.04	22.98	24.2
20	64QAM	1	1	21.59	21.65	21.55	22.7
20	256QAM	1	1	19.79	19.82	19.80	20.7
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.22	24.17	24.13	25.2
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.21	24.24	24.12	25.2
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.16	24.19	24.12	25.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.22	24.27	24.18	25.2
20	PI/2 BPSK	1	53	24.19	24.26	24.17	
20	PI/2 BPSK	1	104	24.08	24.08	24.01	
20	PI/2 BPSK	50	0	23.68	23.69	23.67	24.7
20	PI/2 BPSK	50	28	24.12	24.17	24.14	25.2
20	PI/2 BPSK	50	56	23.49	23.59	23.50	24.7
20	PI/2 BPSK	100	0	23.59	23.63	23.55	
20	QPSK	1	1	24.05	24.05	23.99	25.2
20	QPSK	1	53	24.14	24.18	24.12	
20	QPSK	1	104	23.86	23.92	23.91	
20	QPSK	50	0	23.18	23.20	23.16	24.2
20	QPSK	50	28	24.14	24.19	24.15	25.2
20	QPSK	50	56	23.02	23.12	23.07	24.2
20	QPSK	100	0	23.12	23.16	23.11	
20	16QAM	1	1	23.02	23.04	22.98	24.2
20	64QAM	1	1	21.59	21.65	21.55	22.7
20	256QAM	1	1	19.79	19.82	19.80	20.7
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.22	24.17	24.13	25.2
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.21	24.24	24.12	25.2
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.16	24.19	24.12	25.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.22	24.27	24.18	25.2
20	PI/2 BPSK	1	53	24.19	24.26	24.17	
20	PI/2 BPSK	1	104	24.08	24.08	24.01	
20	PI/2 BPSK	50	0	23.68	23.69	23.67	24.7
20	PI/2 BPSK	50	28	24.12	24.17	24.14	25.2
20	PI/2 BPSK	50	56	23.49	23.59	23.50	24.7
20	PI/2 BPSK	100	0	23.59	23.63	23.55	
20	QPSK	1	1	24.05	24.05	23.99	25.2
20	QPSK	1	53	24.14	24.18	24.12	
20	QPSK	1	104	23.86	23.92	23.91	
20	QPSK	50	0	23.18	23.20	23.16	24.2
20	QPSK	50	28	24.14	24.19	24.15	25.2
20	QPSK	50	56	23.02	23.12	23.07	24.2
20	QPSK	100	0	23.12	23.16	23.11	
20	16QAM	1	1	23.02	23.04	22.98	24.2
20	64QAM	1	1	21.59	21.65	21.55	22.7
20	256QAM	1	1	19.79	19.82	19.80	20.7
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.22	24.17	24.13	25.2
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.21	24.24	24.12	25.2
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.16	24.19	24.12	25.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.33	23.50	23.49	25.1
100	PI/2 BPSK	1	137	23.27	23.49	23.46	
100	PI/2 BPSK	1	271	23.20	23.47	23.40	
100	PI/2 BPSK	135	0	23.39	23.65	23.63	24.7
100	PI/2 BPSK	135	69	23.80	24.05	23.99	25.1
100	PI/2 BPSK	135	138	23.23	23.43	23.42	24.7
100	PI/2 BPSK	270	0	23.43	23.61	23.59	
100	QPSK	1	1	23.29	23.46	23.42	25.1
100	QPSK	1	137	23.28	23.45	23.39	
100	QPSK	1	271	23.22	23.46	23.43	
100	QPSK	135	0	22.94	23.15	23.09	24.2
100	QPSK	135	69	23.80	24.04	23.99	25.1
100	QPSK	135	138	22.75	22.96	22.94	24.2
100	QPSK	270	0	22.95	23.13	23.03	
100	16QAM	1	1	22.26	22.49	22.47	24.2
100	64QAM	1	1	20.77	20.94	20.90	22.7
100	256QAM	1	1	18.83	19.01	18.91	20.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.27	23.49	23.43	25.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.29	23.47	23.43	25.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.31	23.45	23.45	25.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.28	23.44	23.47	25.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.30	23.45	23.44	25.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.25	23.42	23.43	25.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.30	23.44	23.47	25.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.23	23.48	23.45	25.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.28	23.41	23.45	25.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.24	23.42	23.41	25.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.23	23.45	23.48	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	14.18	14.32	14.18	15.6
100	PI/2 BPSK	1	137	13.95	14.00	13.97	
100	PI/2 BPSK	1	271	14.17	14.31	14.20	
100	PI/2 BPSK	135	0	14.24	14.29	14.24	15.6
100	PI/2 BPSK	135	69	14.28	14.30	14.25	15.6
100	PI/2 BPSK	135	138	14.00	14.11	13.98	15.6
100	PI/2 BPSK	270	0	14.38	14.43	14.40	
100	QPSK	1	1	14.21	14.18	14.19	15.6
100	QPSK	1	137	13.95	13.97	13.90	
100	QPSK	1	271	14.44	14.46	14.48	
100	QPSK	135	0	14.26	14.28	14.26	15.6
100	QPSK	135	69	14.25	14.26	14.26	15.6
100	QPSK	135	138	14.01	14.01	14.00	15.6
100	QPSK	270	0	14.39	14.39	14.37	
100	16QAM	1	1	13.98	14.16	13.99	15.6
100	64QAM	1	1	14.08	14.15	13.99	15.6
100	256QAM	1	1	14.00	14.22	14.04	15.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	13.99	14.21	14.06	15.6
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	14.03	14.12	14.05	15.6
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	14.03	14.18	14.07	15.6
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	14.05	14.17	14.00	15.6
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	14.00	14.22	13.98	15.6
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	14.02	14.21	13.99	15.6
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	14.02	14.13	14.04	15.6
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	14.01	14.17	13.99	15.6
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.01	14.19	13.98	15.6
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	13.99	14.13	14.02	15.6
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.01	14.00	13.99	15.6



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



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.91	17.99	17.89	19.5
100	PI/2 BPSK	1	137	17.94	17.98	17.95	
100	PI/2 BPSK	1	271	17.94	17.96	17.93	
100	PI/2 BPSK	135	0	18.35	18.44	18.38	19.5
100	PI/2 BPSK	135	69	18.42	18.46	18.42	19.5
100	PI/2 BPSK	135	138	18.34	18.40	18.35	19.5
100	PI/2 BPSK	270	0	18.47	18.50	18.45	
100	QPSK	1	1	17.88	17.97	17.88	19.5
100	QPSK	1	137	17.79	17.89	17.79	
100	QPSK	1	271	17.82	17.89	17.79	
100	QPSK	135	0	18.27	18.35	18.33	19.5
100	QPSK	135	69	18.27	18.36	18.32	19.5
100	QPSK	135	138	18.27	18.34	18.28	19.5
100	QPSK	270	0	18.34	18.42	18.33	
100	16QAM	1	1	17.95	17.98	17.91	19.5
100	64QAM	1	1	17.86	17.96	17.92	19.5
100	256QAM	1	1	17.76	17.86	17.83	19.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	17.80	17.96	17.77	19.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.86	17.88	17.81	19.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	17.81	17.88	17.84	19.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.80	17.97	17.82	19.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	17.80	17.96	17.79	19.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.89	17.97	17.81	19.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	17.86	17.94	17.86	19.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	17.81	17.90	17.82	19.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.87	17.88	17.81	19.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	17.83	17.94	17.86	19.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	17.89	17.91	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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.30	21.37	21.29	21.7
100	PI/2 BPSK	1	137	20.96	21.01	20.95	
100	PI/2 BPSK	1	271	21.26	21.36	21.21	
100	PI/2 BPSK	135	0	21.23	21.37	21.24	21.7
100	PI/2 BPSK	135	69	21.28	21.38	21.31	21.7
100	PI/2 BPSK	135	138	20.99	21.13	21.06	21.7
100	PI/2 BPSK	270	0	21.41	21.52	21.47	
100	QPSK	1	1	21.15	21.27	21.21	21.7
100	QPSK	1	137	20.96	21.00	20.95	
100	QPSK	1	271	21.22	21.29	21.23	
100	QPSK	135	0	21.26	21.32	21.21	21.7
100	QPSK	135	69	21.23	21.34	21.24	21.7
100	QPSK	135	138	20.93	20.98	20.92	21.7
100	QPSK	270	0	21.26	21.41	21.34	
100	16QAM	1	1	21.30	21.39	21.30	21.7
100	64QAM	1	1	21.18	21.31	21.23	21.7
100	256QAM	1	1	19.50	19.55	19.42	20.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.18	21.31	21.21	21.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.24	21.25	21.20	21.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.21	21.32	21.17	21.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.19	21.30	21.19	21.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.15	21.23	21.20	21.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.15	21.30	21.24	21.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.21	21.32	21.17	21.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.23	21.29	21.22	21.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.16	21.22	21.21	21.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.18	21.29	21.23	21.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.17	21.24	21.21	21.7



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.30	21.37	21.29	22.9
100	PI/2 BPSK	1	137	20.96	21.01	20.95	
100	PI/2 BPSK	1	271	21.26	21.36	21.21	
100	PI/2 BPSK	135	0	21.23	21.37	21.24	22.9
100	PI/2 BPSK	135	69	21.28	21.38	21.31	22.9
100	PI/2 BPSK	135	138	20.99	21.13	21.06	22.9
100	PI/2 BPSK	270	0	21.41	21.52	21.47	
100	QPSK	1	1	21.15	21.27	21.21	
100	QPSK	1	137	20.96	21.00	20.95	22.9
100	QPSK	1	271	21.22	21.29	21.23	
100	QPSK	135	0	21.26	21.32	21.21	
100	QPSK	135	69	21.23	21.34	21.24	22.9
100	QPSK	135	138	20.93	20.98	20.92	22.9
100	QPSK	270	0	21.26	21.41	21.34	
100	16QAM	1	1	21.30	21.39	21.30	
100	64QAM	1	1	21.18	21.31	21.23	22.7
100	256QAM	1	1	19.50	19.55	19.42	20.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.18	21.31	21.21	22.9
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.24	21.25	21.20	22.9
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.21	21.32	21.17	22.9
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.19	21.30	21.19	22.9
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.15	21.23	21.20	22.9
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.15	21.30	21.24	22.9
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.21	21.32	21.17	22.9
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.23	21.29	21.22	22.9
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.16	21.22	21.21	22.9
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.18	21.29	21.23	22.9
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.17	21.24	21.21	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	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.83	20.13	20.12	21.0
100	PI/2 BPSK	1	137	19.80	20.06	20.01	
100	PI/2 BPSK	1	271	19.76	20.03	20.01	
100	PI/2 BPSK	135	0	20.23	20.44	20.48	21.0
100	PI/2 BPSK	135	69	20.22	20.51	20.40	21.0
100	PI/2 BPSK	135	138	20.09	20.32	20.29	21.0
100	PI/2 BPSK	270	0	20.22	20.49	20.47	
100	QPSK	1	1	19.68	19.92	19.89	21.0
100	QPSK	1	137	19.82	20.06	20.03	
100	QPSK	1	271	19.80	20.04	20.02	
100	QPSK	135	0	20.21	20.50	20.45	21.0
100	QPSK	135	69	20.22	20.44	20.39	21.0
100	QPSK	135	138	20.04	20.32	20.30	21.0
100	QPSK	270	0	20.26	20.48	20.43	
100	16QAM	1	1	19.63	19.93	19.91	21.0
100	64QAM	1	1	19.59	19.86	19.83	21.0
100	256QAM	1	1	18.81	19.09	19.06	20.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.77	20.04	20.06	21.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.75	20.03	20.05	21.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.76	20.08	20.02	21.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.77	20.07	20.02	21.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.75	20.08	20.07	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.75	20.06	20.05	21.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.74	20.04	20.05	21.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.76	20.08	20.06	21.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.76	20.04	20.03	21.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.76	20.04	20.05	21.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.73	20.08	20.07	21.0





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



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.19	17.31	17.24	18.6
100	PI/2 BPSK	1	137	16.99	17.01	16.92	
100	PI/2 BPSK	1	271	17.22	17.30	17.19	
100	PI/2 BPSK	135	0	17.20	17.28	17.19	18.6
100	PI/2 BPSK	135	69	17.23	17.29	17.20	18.6
100	PI/2 BPSK	135	138	17.19	17.26	17.17	18.6
100	PI/2 BPSK	270	0	17.30	17.42	17.30	
100	QPSK	1	1	17.20	17.25	17.24	18.6
100	QPSK	1	137	16.96	16.95	16.94	
100	QPSK	1	271	17.22	17.24	17.24	
100	QPSK	135	0	17.17	17.23	17.19	18.6
100	QPSK	135	69	17.21	17.22	17.23	18.6
100	QPSK	135	138	17.14	17.14	17.14	18.6
100	QPSK	270	0	17.36	17.32	17.31	
100	16QAM	1	1	17.07	17.28	17.20	18.6
100	64QAM	1	1	17.11	17.24	17.22	18.6
100	256QAM	1	1	17.08	17.30	17.17	18.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	17.18	17.19	17.14	18.6
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.08	17.19	17.14	18.6
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	17.17	17.23	17.22	18.6
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.15	17.21	17.22	18.6
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	17.10	17.20	17.18	18.6
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.17	17.22	17.14	18.6
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	17.07	17.20	17.22	18.6
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	17.15	17.24	17.13	18.6
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.12	17.25	17.15	18.6
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	17.11	17.21	17.16	18.6
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	17.21	17.22	17.19	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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.12	25.23	25.12	26.0
100	PI/2 BPSK	1	137	25.11	25.22	25.11	
100	PI/2 BPSK	1	271	24.94	25.01	24.94	
100	PI/2 BPSK	135	0	25.06	25.13	25.06	26.0
100	PI/2 BPSK	135	69	25.55	25.61	25.55	26.0
100	PI/2 BPSK	135	138	24.83	24.95	24.87	26.0
100	PI/2 BPSK	270	0	25.03	25.12	25.05	
100	QPSK	1	1	25.14	25.20	25.14	26.0
100	QPSK	1	137	25.11	25.19	25.10	
100	QPSK	1	271	24.95	25.01	24.95	
100	QPSK	135	0	24.55	24.62	24.54	25.7
100	QPSK	135	69	25.49	25.59	25.46	26.0
100	QPSK	135	138	24.31	24.43	24.36	25.7
100	QPSK	270	0	24.47	24.60	24.48	
100	16QAM	1	1	23.89	23.96	23.83	25.7
100	64QAM	1	1	22.33	22.42	22.29	24.2
100	256QAM	1	1	20.43	20.49	20.42	22.2
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.96	25.12	24.94	26.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.93	25.13	24.92	26.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.96	25.10	25.00	26.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.99	25.10	25.01	26.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.94	25.11	24.97	26.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.92	25.08	24.95	26.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.97	25.03	24.92	26.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.98	25.09	24.94	26.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.01	25.06	24.93	26.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.01	25.08	24.93	26.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.02	25.08	24.92	26.0



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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	17.19	17.31	17.24	17.9
100	PI/2 BPSK	1	137	16.99	17.01	16.92	
100	PI/2 BPSK	1	271	17.22	17.30	17.19	
100	PI/2 BPSK	135	0	17.20	17.28	17.19	17.9
100	PI/2 BPSK	135	69	17.23	17.29	17.20	17.9
100	PI/2 BPSK	135	138	17.19	17.26	17.17	17.9
100	PI/2 BPSK	270	0	17.30	17.42	17.30	
100	QPSK	1	1	17.20	17.25	17.24	17.9
100	QPSK	1	137	16.96	16.95	16.94	
100	QPSK	1	271	17.22	17.24	17.24	
100	QPSK	135	0	17.17	17.23	17.19	17.9
100	QPSK	135	69	17.21	17.22	17.23	17.9
100	QPSK	135	138	17.14	17.14	17.14	17.9
100	QPSK	270	0	17.36	17.32	17.31	
100	16QAM	1	1	17.07	17.28	17.20	17.9
100	64QAM	1	1	17.11	17.24	17.22	17.9
100	256QAM	1	1	17.08	17.30	17.17	17.9
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	17.18	17.19	17.14	17.9
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.08	17.19	17.14	17.9
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	17.17	17.23	17.22	17.9
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.15	17.21	17.22	17.9
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	17.10	17.20	17.18	17.9
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.17	17.22	17.14	17.9
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	17.07	17.20	17.22	17.9
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	17.15	17.24	17.13	17.9
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.12	17.25	17.15	17.9
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	17.11	17.21	17.16	17.9
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	17.21	17.22	17.19	17.9



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.24	24.31	24.17	24.7
100	PI/2 BPSK	1	137	23.93	24.01	23.95	
100	PI/2 BPSK	1	271	24.22	24.30	24.20	
100	PI/2 BPSK	135	0	24.22	24.31	24.26	24.7
100	PI/2 BPSK	135	69	24.24	24.32	24.26	24.7
100	PI/2 BPSK	135	138	23.96	24.06	23.98	24.7
100	PI/2 BPSK	270	0	24.39	24.45	24.34	
100	QPSK	1	1	24.07	24.22	24.08	24.7
100	QPSK	1	137	24.01	23.95	24.03	
100	QPSK	1	271	24.18	24.23	24.20	
100	QPSK	135	0	24.07	24.20	24.06	24.7
100	QPSK	135	69	24.12	24.22	24.15	24.7
100	QPSK	135	138	23.82	23.97	23.84	24.7
100	QPSK	270	0	24.28	24.33	24.28	
100	16QAM	1	1	24.19	24.33	24.26	24.7
100	64QAM	1	1	22.63	22.78	22.73	24.0
100	256QAM	1	1	20.68	20.75	20.67	22.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.20	24.27	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	24.23	24.08	24.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.17	24.26	24.13	24.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.19	24.18	24.04	24.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.18	24.26	24.11	24.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.27	24.05	24.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.19	24.18	24.13	24.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.12	24.27	24.12	24.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.17	24.22	24.08	24.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.20	24.23	24.05	24.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.11	24.23	24.07	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	22.06	22.17	22.06	24.0
100	PI/2 BPSK	1	137	22.04	22.16	22.05	
100	PI/2 BPSK	1	271	22.01	22.09	22.02	
100	PI/2 BPSK	135	0	22.42	22.45	22.46	24.0
100	PI/2 BPSK	135	69	22.39	22.51	22.43	24.0
100	PI/2 BPSK	135	138	22.26	22.32	22.27	24.0
100	PI/2 BPSK	270	0	22.39	22.49	22.46	
100	QPSK	1	1	22.06	22.15	22.14	24.0
100	QPSK	1	137	22.04	22.07	22.05	
100	QPSK	1	271	22.01	22.04	22.03	
100	QPSK	135	0	22.41	22.50	22.48	24.0
100	QPSK	135	69	22.35	22.43	22.39	24.0
100	QPSK	135	138	22.24	22.30	22.26	24.0
100	QPSK	270	0	22.39	22.48	22.44	
100	16QAM	1	1	22.04	22.15	22.14	24.0
100	64QAM	1	1	22.02	22.13	22.08	24.0
100	256QAM	1	1	20.55	20.56	20.54	22.2
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.13	22.15	22.12	24.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.05	22.16	22.00	24.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.00	22.14	22.01	24.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.04	22.14	22.04	24.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.03	22.14	22.02	24.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.01	22.16	22.01	24.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.04	22.14	22.02	24.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.02	22.11	22.03	24.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.01	22.11	22.03	24.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.05	22.12	22.01	24.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.03	22.15	22.02	24.0





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.24	24.31	24.17	25.9
100	PI/2 BPSK	1	137	23.93	24.01	23.95	
100	PI/2 BPSK	1	271	24.22	24.30	24.20	
100	PI/2 BPSK	135	0	24.22	24.31	24.26	25.9
100	PI/2 BPSK	135	69	24.24	24.32	24.26	25.9
100	PI/2 BPSK	135	138	23.96	24.06	23.98	25.9
100	PI/2 BPSK	270	0	24.39	24.45	24.34	
100	QPSK	1	1	24.07	24.22	24.08	25.9
100	QPSK	1	137	24.01	23.95	24.03	
100	QPSK	1	271	24.18	24.23	24.20	
100	QPSK	135	0	24.07	24.20	24.06	25.5
100	QPSK	135	69	24.12	24.22	24.15	25.9
100	QPSK	135	138	23.82	23.97	23.84	25.5
100	QPSK	270	0	24.28	24.33	24.28	
100	16QAM	1	1	24.19	24.33	24.26	25.5
100	64QAM	1	1	22.63	22.78	22.73	24.0
100	256QAM	1	1	20.68	20.75	20.67	22.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.20	24.27	24.04	25.9
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.11	24.23	24.08	25.9
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.17	24.26	24.13	25.9
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.19	24.18	24.04	25.9
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.18	24.26	24.11	25.9
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.27	24.05	25.9
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.19	24.18	24.13	25.9
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.12	24.27	24.12	25.9
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.17	24.22	24.08	25.9
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.20	24.23	24.05	25.9
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.11	24.23	24.07	25.9



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.24	24.31	24.17	24.7
100	PI/2 BPSK	1	137	23.93	24.01	23.95	
100	PI/2 BPSK	1	271	24.22	24.30	24.20	
100	PI/2 BPSK	135	0	24.22	24.31	24.26	24.7
100	PI/2 BPSK	135	69	24.24	24.32	24.26	24.7
100	PI/2 BPSK	135	138	23.96	24.06	23.98	24.7
100	PI/2 BPSK	270	0	24.39	24.45	24.34	
100	QPSK	1	1	24.07	24.22	24.08	24.7
100	QPSK	1	137	24.01	23.95	24.03	
100	QPSK	1	271	24.18	24.23	24.20	
100	QPSK	135	0	24.07	24.20	24.06	24.7
100	QPSK	135	69	24.12	24.22	24.15	24.7
100	QPSK	135	138	23.82	23.97	23.84	24.7
100	QPSK	270	0	24.28	24.33	24.28	
100	16QAM	1	1	24.19	24.33	24.26	24.7
100	64QAM	1	1	22.63	22.78	22.73	24.0
100	256QAM	1	1	20.68	20.75	20.67	22.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.20	24.27	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	24.23	24.08	24.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.17	24.26	24.13	24.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.19	24.18	24.04	24.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.18	24.26	24.11	24.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.27	24.05	24.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.19	24.18	24.13	24.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.12	24.27	24.12	24.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.17	24.22	24.08	24.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.20	24.23	24.05	24.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.11	24.23	24.07	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		25.1
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.64		25.1
100	PI/2 BPSK	1	137		23.63		
100	PI/2 BPSK	1	271		23.51		24.7
100	PI/2 BPSK	135	0		23.59		
100	PI/2 BPSK	135	69		24.11		25.1
100	PI/2 BPSK	135	138		23.25		
100	PI/2 BPSK	270	0		23.58		24.0
100	QPSK	1	1		23.59		
100	QPSK	1	137		23.55		25.1
100	QPSK	1	271		23.51		
100	QPSK	135	0		23.09		24.2
100	QPSK	135	69		24.10		
100	QPSK	135	138		22.75		24.2
100	QPSK	270	0		23.09		
100	16QAM	1	1		22.62		24.2
100	64QAM	1	1		21.11		
100	256QAM	1	1		19.15		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.55	23.58	23.54	25.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.60	23.63	23.58	25.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.59	23.58	23.54	25.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.54	23.63	23.62	25.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.55	23.58	23.60	25.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.61	23.58	23.62	25.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.61	23.60	23.56	25.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.54	23.58	23.58	25.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.56	23.63	23.58	25.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.62	23.62	23.57	25.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.62	23.60	23.60	25.1



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



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



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



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





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



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



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



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



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



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.38		18.6
100	PI/2 BPSK	1	137		17.09		
100	PI/2 BPSK	1	271		17.37		
100	PI/2 BPSK	135	0		17.42		18.6
100	PI/2 BPSK	135	69		17.43		18.6
100	PI/2 BPSK	135	138		17.38		18.6
100	PI/2 BPSK	270	0		17.56		
100	QPSK	1	1		17.32		18.6
100	QPSK	1	137		17.04		
100	QPSK	1	271		17.33		
100	QPSK	135	0		17.31		18.6
100	QPSK	135	69		17.36		18.6
100	QPSK	135	138		17.25		18.6
100	QPSK	270	0		17.46		
100	16QAM	1	1		17.41		18.6
100	64QAM	1	1		17.34		18.6
100	256QAM	1	1		17.40		18.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.18	17.30	17.18	18.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.16	17.33	17.18	18.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.15	17.27	17.19	18.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.23	17.33	17.22	18.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.21	17.32	17.19	18.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.23	17.25	17.15	18.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.22	17.32	17.19	18.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.15	17.29	17.21	18.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.22	17.31	17.17	18.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.16	17.24	17.21	18.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.17	17.30	17.16	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.29		26.0
100	PI/2 BPSK	1	137		25.22		
100	PI/2 BPSK	1	271		25.18		
100	PI/2 BPSK	135	0		25.22		26.0
100	PI/2 BPSK	135	69		25.83		26.0
100	PI/2 BPSK	135	138		24.96		26.0
100	PI/2 BPSK	270	0		25.29		
100	QPSK	1	1		25.25		26.0
100	QPSK	1	137		25.23		
100	QPSK	1	271		25.22		
100	QPSK	135	0		24.80		25.7
100	QPSK	135	69		25.82		26.0
100	QPSK	135	138		24.45		25.7
100	QPSK	270	0		24.77		
100	16QAM	1	1		24.29		25.7
100	64QAM	1	1		22.74		24.2
100	256QAM	1	1		20.84		22.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.19	25.22	25.11	26.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.07	25.09	24.98	26.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.07	25.09	25.00	26.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.12	25.09	25.03	26.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.08	25.14	25.01	26.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.13	25.15	24.99	26.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.13	25.11	25.04	26.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.06	25.10	25.04	26.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.07	25.13	25.01	26.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.07	25.11	25.03	26.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.10	25.09	25.01	26.0





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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		17.38		17.9
100	PI/2 BPSK	1	137		17.09		
100	PI/2 BPSK	1	271		17.37		
100	PI/2 BPSK	135	0		17.42		17.9
100	PI/2 BPSK	135	69		17.43		17.9
100	PI/2 BPSK	135	138		17.38		17.9
100	PI/2 BPSK	270	0		17.56		
100	QPSK	1	1		17.32		17.9
100	QPSK	1	137		17.04		
100	QPSK	1	271		17.33		
100	QPSK	135	0		17.31		17.9
100	QPSK	135	69		17.36		17.9
100	QPSK	135	138		17.25		17.9
100	QPSK	270	0		17.46		
100	16QAM	1	1		17.41		17.9
100	64QAM	1	1		17.34		17.9
100	256QAM	1	1		17.40		17.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.18	17.30	17.18	17.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.16	17.33	17.18	17.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.15	17.27	17.19	17.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.23	17.33	17.22	17.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.21	17.32	17.19	17.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.23	17.25	17.15	17.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.22	17.32	17.19	17.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.15	17.29	17.21	17.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.22	17.31	17.17	17.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.16	17.24	17.21	17.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.17	17.30	17.16	17.9



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		24.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.48		24.7
100	PI/2 BPSK	1	137		24.14		
100	PI/2 BPSK	1	271		24.42		24.7
100	PI/2 BPSK	135	0		24.40		
100	PI/2 BPSK	135	69		24.45		24.7
100	PI/2 BPSK	135	138		24.13		
100	PI/2 BPSK	270	0		24.51		24.7
100	QPSK	1	1		24.37		
100	QPSK	1	137		24.21		24.7
100	QPSK	1	271		24.33		
100	QPSK	135	0		24.27		24.7
100	QPSK	135	69		24.28		
100	QPSK	135	138		24.13		24.7
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.48		24.7
100	64QAM	1	1		22.73		
100	256QAM	1	1		20.61		22.0
Channel				633000	633332	633666	24.7
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.30	24.43	24.41	24.7
Channel				632668	633332	634000	24.7
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.30	24.37	24.32	24.7
Channel				632334	633332	634332	24.7
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.34	24.36	24.36	24.7
Channel				632000	633332	634666	24.7
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.31	24.40	24.32	24.7
Channel				631668	633332	635000	24.7
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.33	24.40	24.35	24.7
Channel				631334	633332	635332	24.7
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.36	24.40	24.37	24.7
Channel				631000	633332	635666	24.7
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.30	24.41	24.35	24.7
Channel				630834	633332	635832	24.7
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.39	24.39	24.39	24.7
Channel				630668	633332	636000	24.7
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.39	24.35	24.40	24.7
Channel				630500	633332	636166	24.7
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.34	24.34	24.41	24.7
Channel				630334	633332	636332	24.7
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.33	24.41	24.34	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		22.28		24.0
100	PI/2 BPSK	1	137		22.21		
100	PI/2 BPSK	1	271		22.19		
100	PI/2 BPSK	135	0		22.55		24.0
100	PI/2 BPSK	135	69		22.71		24.0
100	PI/2 BPSK	135	138		22.51		24.0
100	PI/2 BPSK	270	0		22.63		
100	QPSK	1	1		22.33		24.0
100	QPSK	1	137		22.26		
100	QPSK	1	271		22.20		
100	QPSK	135	0		22.66		24.0
100	QPSK	135	69		22.59		24.0
100	QPSK	135	138		22.45		24.0
100	QPSK	270	0		22.59		
100	16QAM	1	1		22.11		24.0
100	64QAM	1	1		22.03		24.0
100	256QAM	1	1		20.74		22.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.08	22.09	22.07	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.08	22.05	22.05	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.05	22.10	22.03	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.07	22.05	22.04	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.05	22.10	22.07	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.03	22.08	22.07	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.07	22.09	22.05	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.03	22.06	22.03	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.03	22.08	22.02	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.03	22.06	22.04	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.04	22.06	22.02	24.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.48		25.9
100	PI/2 BPSK	1	137		24.14		
100	PI/2 BPSK	1	271		24.42		
100	PI/2 BPSK	135	0		24.40		25.9
100	PI/2 BPSK	135	69		24.45		25.9
100	PI/2 BPSK	135	138		24.13		25.9
100	PI/2 BPSK	270	0		24.51		
100	QPSK	1	1		24.37		25.9
100	QPSK	1	137		24.21		
100	QPSK	1	271		24.33		
100	QPSK	135	0		24.27		25.5
100	QPSK	135	69		24.28		25.9
100	QPSK	135	138		24.13		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.48		25.5
100	64QAM	1	1		22.73		24.0
100	256QAM	1	1		20.61		22.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.30	24.43	24.41	25.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.30	24.37	24.32	25.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.34	24.36	24.36	25.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.31	24.40	24.32	25.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.33	24.40	24.35	25.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.36	24.40	24.37	25.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.30	24.41	24.35	25.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.39	24.39	24.39	25.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.39	24.35	24.40	25.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.34	24.34	24.41	25.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.33	24.41	24.34	25.9



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		24.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.48		24.7
100	PI/2 BPSK	1	137		24.14		
100	PI/2 BPSK	1	271		24.42		24.7
100	PI/2 BPSK	135	0		24.40		
100	PI/2 BPSK	135	69		24.45		24.7
100	PI/2 BPSK	135	138		24.13		
100	PI/2 BPSK	270	0		24.51		24.7
100	QPSK	1	1		24.37		
100	QPSK	1	137		24.21		24.7
100	QPSK	1	271		24.33		
100	QPSK	135	0		24.27		24.7
100	QPSK	135	69		24.28		
100	QPSK	135	138		24.13		24.7
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.48		24.7
100	64QAM	1	1		22.73		
100	256QAM	1	1		20.61		22.0
Channel				633000	633332	633666	24.7
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.30	24.43	24.41	24.7
Channel				632668	633332	634000	24.7
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.30	24.37	24.32	24.7
Channel				632334	633332	634332	24.7
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.34	24.36	24.36	24.7
Channel				632000	633332	634666	24.7
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.31	24.40	24.32	24.7
Channel				631668	633332	635000	24.7
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.33	24.40	24.35	24.7
Channel				631334	633332	635332	24.7
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.36	24.40	24.37	24.7
Channel				631000	633332	635666	24.7
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.30	24.41	24.35	24.7
Channel				630834	633332	635832	24.7
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.39	24.39	24.39	24.7
Channel				630668	633332	636000	24.7
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.39	24.35	24.40	24.7
Channel				630500	633332	636166	24.7
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.34	24.34	24.41	24.7
Channel				630334	633332	636332	24.7
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.33	24.41	24.34	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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.32		25.1
100	PI/2 BPSK	1	137		23.25		
100	PI/2 BPSK	1	271		23.28		
100	PI/2 BPSK	135	0		23.56		24.7
100	PI/2 BPSK	135	69		24.01		25.1
100	PI/2 BPSK	135	138		23.24		24.7
100	PI/2 BPSK	270	0		23.45		
100	QPSK	1	1		23.25		25.1
100	QPSK	1	137		23.31		
100	QPSK	1	271		23.29		
100	QPSK	135	0		23.05		24.2
100	QPSK	135	69		24.00		25.1
100	QPSK	135	138		22.78		24.2
100	QPSK	270	0		22.97		
100	16QAM	1	1		22.33		24.2
100	64QAM	1	1		20.77		22.7
100	256QAM	1	1		18.81		20.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.22	23.27	23.24	25.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.25	23.31	23.30	25.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.27	23.22	23.25	25.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.25	23.25	23.27	25.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.28	23.24	23.24	25.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.30	23.24	23.26	25.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.28	23.27	23.22	25.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.23	23.28	23.26	25.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.22	23.28	23.31	25.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.23	23.23	23.26	25.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.22	23.24	23.31	25.1





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



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



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



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



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



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



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



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





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



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		17.50		18.6
100	PI/2 BPSK	1	137		17.06		
100	PI/2 BPSK	1	271		17.40		
100	PI/2 BPSK	135	0		17.24		18.6
100	PI/2 BPSK	135	69		17.46		18.6
100	PI/2 BPSK	135	138		17.23		18.6
100	PI/2 BPSK	270	0		17.58		
100	QPSK	1	1		17.40		18.6
100	QPSK	1	137		17.00		
100	QPSK	1	271		17.36		
100	QPSK	135	0		17.31		18.6
100	QPSK	135	69		17.36		18.6
100	QPSK	135	138		17.25		18.6
100	QPSK	270	0		17.42		
100	16QAM	1	1		17.35		18.6
100	64QAM	1	1		17.34		18.6
100	256QAM	1	1		17.40		18.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	17.33	17.41	17.35	18.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	17.32	17.38	17.35	18.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	17.28	17.39	17.35	18.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	17.34	17.45	17.30	18.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	17.29	17.45	17.33	18.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	17.34	17.45	17.33	18.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	17.31	17.41	17.32	18.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	17.31	17.39	17.32	18.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	17.29	17.43	17.31	18.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	17.29	17.41	17.35	18.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	17.29	17.42	17.36	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		25.21		26.0
100	PI/2 BPSK	1	137		25.20		
100	PI/2 BPSK	1	271		25.04		
100	PI/2 BPSK	135	0		25.50		26.0
100	PI/2 BPSK	135	69		25.72		26.0
100	PI/2 BPSK	135	138		24.89		26.0
100	PI/2 BPSK	270	0		25.18		
100	QPSK	1	1		25.13		26.0
100	QPSK	1	137		25.33		
100	QPSK	1	271		25.05		
100	QPSK	135	0		25.00		25.7
100	QPSK	135	69		25.70		26.0
100	QPSK	135	138		24.44		25.7
100	QPSK	270	0		24.71		
100	16QAM	1	1		24.20		25.7
100	64QAM	1	1		22.66		24.2
100	256QAM	1	1		20.73		22.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	25.11	25.18	25.13	26.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.01	25.08	25.01	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.97	25.06	25.00	26.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.95	25.03	24.97	26.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.98	25.05	24.98	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.00	25.02	24.98	26.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.99	25.04	25.01	26.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.97	25.05	24.98	26.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.95	25.04	25.01	26.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.95	25.08	24.98	26.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.98	25.08	24.99	26.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		17.50		17.9
100	PI/2 BPSK	1	137		17.06		
100	PI/2 BPSK	1	271		17.40		
100	PI/2 BPSK	135	0		17.24		17.9
100	PI/2 BPSK	135	69		17.46		17.9
100	PI/2 BPSK	135	138		17.23		17.9
100	PI/2 BPSK	270	0		17.58		
100	QPSK	1	1		17.40		17.9
100	QPSK	1	137		17.00		
100	QPSK	1	271		17.36		
100	QPSK	135	0		17.31		17.9
100	QPSK	135	69		17.36		17.9
100	QPSK	135	138		17.25		17.9
100	QPSK	270	0		17.42		
100	16QAM	1	1		17.35		17.9
100	64QAM	1	1		17.34		17.9
100	256QAM	1	1		17.40		17.9
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	17.33	17.41	17.35	17.9
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	17.32	17.38	17.35	17.9
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	17.28	17.39	17.35	17.9
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	17.34	17.45	17.30	17.9
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	17.29	17.45	17.33	17.9
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	17.34	17.45	17.33	17.9
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	17.31	17.41	17.32	17.9
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	17.31	17.39	17.32	17.9
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	17.29	17.43	17.31	17.9
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	17.29	17.41	17.35	17.9
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	17.29	17.42	17.36	17.9



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.23		24.7
100	PI/2 BPSK	1	137		23.97		
100	PI/2 BPSK	1	271		24.04		
100	PI/2 BPSK	135	0		24.12		24.7
100	PI/2 BPSK	135	69		24.25		24.7
100	PI/2 BPSK	135	138		23.99		24.7
100	PI/2 BPSK	270	0		24.30		
100	QPSK	1	1		24.02		24.7
100	QPSK	1	137		23.94		
100	QPSK	1	271		24.02		
100	QPSK	135	0		23.94		24.7
100	QPSK	135	69		23.94		24.7
100	QPSK	135	138		23.87		24.7
100	QPSK	270	0		24.06		
100	16QAM	1	1		24.12		24.7
100	64QAM	1	1		22.49		24.0
100	256QAM	1	1		20.29		22.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.14	24.05	24.10	24.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.08	24.16	24.09	24.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.04	24.13	24.09	24.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.05	24.17	24.00	24.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.00	24.10	24.09	24.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.10	24.07	24.01	24.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.04	24.09	24.03	24.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.09	24.08	24.13	24.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.00	24.13	24.00	24.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.07	24.11	24.13	24.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.12	24.13	24.02	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		24.0
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.31		24.0
100	PI/2 BPSK	1	137		22.30		
100	PI/2 BPSK	1	271		22.16		24.0
100	PI/2 BPSK	135	0		22.80		
100	PI/2 BPSK	135	69		22.95		24.0
100	PI/2 BPSK	135	138		22.40		
100	PI/2 BPSK	270	0		22.65		24.0
100	QPSK	1	1		22.19		
100	QPSK	1	137		22.27		24.0
100	QPSK	1	271		22.08		
100	QPSK	135	0		22.92		24.0
100	QPSK	135	69		22.67		
100	QPSK	135	138		22.37		24.0
100	QPSK	270	0		22.64		
100	16QAM	1	1		22.20		24.0
100	64QAM	1	1		22.13		
100	256QAM	1	1		20.88		22.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.34	22.22	22.22	24.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.28	22.14	22.12	24.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.28	22.13	22.12	24.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.27	22.15	22.12	24.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.29	22.16	22.16	24.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.24	22.16	22.14	24.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.25	22.17	22.16	24.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.25	22.14	22.15	24.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.24	22.17	22.13	24.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.27	22.14	22.16	24.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.26	22.12	22.13	24.0





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.23		25.9
100	PI/2 BPSK	1	137		23.97		
100	PI/2 BPSK	1	271		24.04		
100	PI/2 BPSK	135	0		24.12		25.9
100	PI/2 BPSK	135	69		24.25		25.9
100	PI/2 BPSK	135	138		23.99		25.9
100	PI/2 BPSK	270	0		24.30		
100	QPSK	1	1		24.02		25.9
100	QPSK	1	137		23.94		
100	QPSK	1	271		24.02		
100	QPSK	135	0		23.94		25.5
100	QPSK	135	69		23.94		25.9
100	QPSK	135	138		23.87		25.5
100	QPSK	270	0		24.06		
100	16QAM	1	1		24.12		25.5
100	64QAM	1	1		22.49		24.0
100	256QAM	1	1		20.29		22.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.14	24.05	24.10	25.9
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.08	24.16	24.09	25.9
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.04	24.13	24.09	25.9
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.05	24.17	24.00	25.9
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.00	24.10	24.09	25.9
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.10	24.07	24.01	25.9
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.04	24.09	24.03	25.9
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.09	24.08	24.13	25.9
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.00	24.13	24.00	25.9
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.07	24.11	24.13	25.9
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.12	24.13	24.02	25.9



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.23		24.7
100	PI/2 BPSK	1	137		23.97		
100	PI/2 BPSK	1	271		24.04		
100	PI/2 BPSK	135	0		24.12		24.7
100	PI/2 BPSK	135	69		24.25		24.7
100	PI/2 BPSK	135	138		23.99		24.7
100	PI/2 BPSK	270	0		24.30		
100	QPSK	1	1		24.02		24.7
100	QPSK	1	137		23.94		
100	QPSK	1	271		24.02		
100	QPSK	135	0		23.94		24.7
100	QPSK	135	69		23.94		24.7
100	QPSK	135	138		23.87		24.7
100	QPSK	270	0		24.06		
100	16QAM	1	1		24.12		24.7
100	64QAM	1	1		22.49		24.0
100	256QAM	1	1		20.29		22.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.14	24.05	24.10	24.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.08	24.16	24.09	24.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.04	24.13	24.09	24.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.05	24.17	24.00	24.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.00	24.10	24.09	24.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.10	24.07	24.01	24.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.04	24.09	24.03	24.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.09	24.08	24.13	24.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.00	24.13	24.00	24.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.07	24.11	24.13	24.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.12	24.13	24.02	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		23.64		25.1
100	PI/2 BPSK	1	137		23.62		
100	PI/2 BPSK	1	271		23.47		
100	PI/2 BPSK	135	0		23.55		24.7
100	PI/2 BPSK	135	69		24.06		25.1
100	PI/2 BPSK	135	138		23.20		24.7
100	PI/2 BPSK	270	0		23.53		
100	QPSK	1	1		23.59		25.1
100	QPSK	1	137		23.58		
100	QPSK	1	271		23.46		
100	QPSK	135	0		23.07		24.2
100	QPSK	135	69		24.05		25.1
100	QPSK	135	138		22.69		24.2
100	QPSK	270	0		23.05		
100	16QAM	1	1		22.58		24.2
100	64QAM	1	1		21.08		22.7
100	256QAM	1	1		19.17		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.49	23.55	23.56	25.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.55	23.60	23.60	25.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.63	23.61	23.60	25.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.62	23.60	23.56	25.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.56	23.59	23.54	25.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.62	23.62	23.58	25.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.63	23.57	23.60	25.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.59	23.55	23.63	25.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.57	23.59	23.63	25.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.63	23.57	23.56	25.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.56	23.58	23.63	25.1



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



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



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



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





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



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



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



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



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



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



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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		17.51		18.6
100	PI/2 BPSK	1	137		16.98		
100	PI/2 BPSK	1	271		17.34		
100	PI/2 BPSK	135	0		17.12		18.6
100	PI/2 BPSK	135	69		17.41		18.6
100	PI/2 BPSK	135	138		17.13		18.6
100	PI/2 BPSK	270	0		17.47		
100	QPSK	1	1		17.34		18.6
100	QPSK	1	137		16.94		
100	QPSK	1	271		17.30		
100	QPSK	135	0		17.19		18.6
100	QPSK	135	69		17.28		18.6
100	QPSK	135	138		17.18		18.6
100	QPSK	270	0		17.33		
100	16QAM	1	1		17.28		18.6
100	64QAM	1	1		17.28		18.6
100	256QAM	1	1		17.31		18.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.31	17.46	17.30	18.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.39	17.39	17.32	18.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.37	17.40	17.33	18.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.39	17.43	17.35	18.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.32	17.42	17.30	18.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.36	17.41	17.29	18.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.34	17.38	17.32	18.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.34	17.44	17.31	18.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.33	17.42	17.36	18.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.33	17.39	17.33	18.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.33	17.41	17.31	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.36		26.0
100	PI/2 BPSK	1	137		25.33		
100	PI/2 BPSK	1	271		25.17		
100	PI/2 BPSK	135	0		25.30		26.0
100	PI/2 BPSK	135	69		25.78		26.0
100	PI/2 BPSK	135	138		24.91		26.0
100	PI/2 BPSK	270	0		25.24		
100	QPSK	1	1		25.26		26.0
100	QPSK	1	137		25.33		
100	QPSK	1	271		25.11		
100	QPSK	135	0		24.78		25.7
100	QPSK	135	69		25.77		26.0
100	QPSK	135	138		24.44		25.7
100	QPSK	270	0		24.75		
100	16QAM	1	1		24.30		25.7
100	64QAM	1	1		22.74		24.2
100	256QAM	1	1		20.81		22.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.30	25.33	25.30	26.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.24	25.18	25.21	26.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.17	25.19	25.16	26.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.17	25.20	25.18	26.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.17	25.19	25.24	26.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.19	25.21	25.15	26.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.19	25.23	25.15	26.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.18	25.21	25.17	26.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.17	25.21	25.15	26.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.18	25.27	25.23	26.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.18	25.23	25.21	26.0





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.51		17.9
100	PI/2 BPSK	1	137		16.98		
100	PI/2 BPSK	1	271		17.34		
100	PI/2 BPSK	135	0		17.12		17.9
100	PI/2 BPSK	135	69		17.41		17.9
100	PI/2 BPSK	135	138		17.13		17.9
100	PI/2 BPSK	270	0		17.47		
100	QPSK	1	1		17.34		17.9
100	QPSK	1	137		16.94		
100	QPSK	1	271		17.30		
100	QPSK	135	0		17.19		17.9
100	QPSK	135	69		17.28		17.9
100	QPSK	135	138		17.18		17.9
100	QPSK	270	0		17.33		
100	16QAM	1	1		17.28		17.9
100	64QAM	1	1		17.28		17.9
100	256QAM	1	1		17.31		17.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.31	17.46	17.30	17.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.39	17.39	17.32	17.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.37	17.40	17.33	17.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.39	17.43	17.35	17.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.32	17.42	17.30	17.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.36	17.41	17.29	17.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.34	17.38	17.32	17.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.34	17.44	17.31	17.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.33	17.42	17.36	17.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.33	17.39	17.33	17.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.33	17.41	17.31	17.9



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.27		24.7
100	PI/2 BPSK	1	137		23.99		
100	PI/2 BPSK	1	271		24.10		
100	PI/2 BPSK	135	0		24.09		24.7
100	PI/2 BPSK	135	69		24.31		24.7
100	PI/2 BPSK	135	138		23.96		24.7
100	PI/2 BPSK	270	0		24.30		
100	QPSK	1	1		24.02		24.7
100	QPSK	1	137		23.98		
100	QPSK	1	271		23.99		
100	QPSK	135	0		23.92		24.7
100	QPSK	135	69		24.02		24.7
100	QPSK	135	138		23.82		24.7
100	QPSK	270	0		24.13		
100	16QAM	1	1		24.13		24.7
100	64QAM	1	1		22.49		24.0
100	256QAM	1	1		20.31		22.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.21	24.14	24.14	24.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.19	24.15	24.22	24.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.16	24.21	24.12	24.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.15	24.21	24.16	24.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.14	24.22	24.19	24.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.14	24.16	24.12	24.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.12	24.13	24.21	24.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.21	24.16	24.15	24.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.15	24.21	24.22	24.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.19	24.20	24.17	24.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.20	24.19	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.33		24.0
100	PI/2 BPSK	1	137		22.28		
100	PI/2 BPSK	1	271		22.18		
100	PI/2 BPSK	135	0		22.61		24.0
100	PI/2 BPSK	135	69		22.78		24.0
100	PI/2 BPSK	135	138		22.34		24.0
100	PI/2 BPSK	270	0		22.65		
100	QPSK	1	1		22.10		24.0
100	QPSK	1	137		22.27		
100	QPSK	1	271		22.13		
100	QPSK	135	0		22.56		24.0
100	QPSK	135	69		22.53		24.0
100	QPSK	135	138		22.29		24.0
100	QPSK	270	0		22.49		
100	16QAM	1	1		22.05		24.0
100	64QAM	1	1		22.03		24.0
100	256QAM	1	1		20.95		22.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.40	22.34	22.33	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.34	22.26	22.23	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.35	22.25	22.25	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.32	22.29	22.24	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.35	22.27	22.28	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.35	22.24	22.27	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.30	22.28	22.23	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.33	22.24	22.25	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.33	22.25	22.27	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.30	22.24	22.27	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.33	22.27	22.28	24.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.27		25.9
100	PI/2 BPSK	1	137		23.99		
100	PI/2 BPSK	1	271		24.10		
100	PI/2 BPSK	135	0		24.09		25.9
100	PI/2 BPSK	135	69		24.31		25.9
100	PI/2 BPSK	135	138		23.96		25.9
100	PI/2 BPSK	270	0		24.30		
100	QPSK	1	1		24.02		25.9
100	QPSK	1	137		23.98		
100	QPSK	1	271		23.99		
100	QPSK	135	0		23.92		25.5
100	QPSK	135	69		24.02		25.9
100	QPSK	135	138		23.82		25.5
100	QPSK	270	0		24.13		
100	16QAM	1	1		24.13		25.5
100	64QAM	1	1		22.49		24.0
100	256QAM	1	1		20.31		22.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.21	24.14	24.14	25.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.19	24.15	24.22	25.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.16	24.21	24.12	25.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.15	24.21	24.16	25.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.14	24.22	24.19	25.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.14	24.16	24.12	25.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.12	24.13	24.21	25.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.21	24.16	24.15	25.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.15	24.21	24.22	25.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.19	24.20	24.17	25.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.20	24.19	24.14	25.9



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.27		24.7
100	PI/2 BPSK	1	137		23.99		
100	PI/2 BPSK	1	271		24.10		
100	PI/2 BPSK	135	0		24.09		24.7
100	PI/2 BPSK	135	69		24.31		24.7
100	PI/2 BPSK	135	138		23.96		24.7
100	PI/2 BPSK	270	0		24.30		
100	QPSK	1	1		24.02		24.7
100	QPSK	1	137		23.98		
100	QPSK	1	271		23.99		
100	QPSK	135	0		23.92		24.7
100	QPSK	135	69		24.02		24.7
100	QPSK	135	138		23.82		24.7
100	QPSK	270	0		24.13		
100	16QAM	1	1		24.13		24.7
100	64QAM	1	1		22.49		24.0
100	256QAM	1	1		20.31		22.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.21	24.14	24.14	24.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.19	24.15	24.22	24.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.16	24.21	24.12	24.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.15	24.21	24.16	24.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.14	24.22	24.19	24.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.14	24.16	24.12	24.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.12	24.13	24.21	24.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.21	24.16	24.15	24.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.15	24.21	24.22	24.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.19	24.20	24.17	24.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.20	24.19	24.14	24.7