



**Full Power level/Default Power level/ Pmax Power Level for WWAN**

GSM850—ANT 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel								
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.42	32.57	32.32	33.50	23.42	23.57	23.32	24.50
GPRS 1 Tx slot	32.31	32.54	32.24	33.50	23.31	23.54	23.24	24.50
GPRS 2 Tx slots	31.13	31.56	31.33	32.50	25.13	25.56	25.33	26.50
GPRS 3 Tx slots	29.83	29.57	29.61	31.00	25.57	25.31	25.35	26.74
GPRS 4 Tx slots	28.37	28.12	28.22	30.00	25.37	25.12	25.22	27.00
EDGE 1 Tx slot	26.38	26.57	26.35	27.50	17.38	17.57	17.35	18.50
EDGE 2 Tx slots	25.68	25.55	25.61	26.50	19.68	19.55	19.61	20.50
EDGE 3 Tx slots	23.46	23.31	23.76	25.00	18.22	18.05	18.50	20.74
EDGE 4 Tx slots	21.65	21.45	22.03	23.00	18.65	18.45	19.03	20.00

GSM1900—ANT 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel								
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.61	29.41	29.80	30.50	20.61	20.41	20.80	21.50
GPRS 1 Tx slot	29.34	29.37	29.79	30.50	20.34	20.37	20.79	21.50
GPRS 2 Tx slots	27.83	27.91	28.14	29.50	21.83	21.91	22.14	23.50
GPRS 3 Tx slots	26.80	26.87	27.28	28.00	22.54	22.61	23.02	23.74
GPRS 4 Tx slots	24.81	24.83	24.95	26.00	21.81	21.83	21.95	23.00
EDGE 1 Tx slot	25.81	25.59	25.86	27.00	16.81	16.59	16.86	18.00
EDGE 2 Tx slots	24.79	24.78	24.83	25.50	18.79	18.78	18.83	19.50
EDGE 3 Tx slots	23.23	22.90	23.06	24.50	18.97	18.64	18.80	20.24
EDGE 4 Tx slots	21.52	21.38	21.29	22.50	18.52	18.38	18.29	19.50

Band	WCDMA II—ANT 1			Tune-up Limit (dBm)	WCDMA V—ANT 1			Tune-up Limit (dBm)	
	9262	9400	9538		4132	4162	4233		
TX Channel									
Rx Channel	9662	8800	9038		4357	4407	4459		
Frequency (MHz)	1852.4	1860	1907.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	23.25	23.20	23.21	24.00	23.18	23.07	22.97	24.00
3GPP Rel 99	RMC 12.2Kbps	23.36	23.27	23.35	24.00	23.26	23.13	23.05	24.00
3GPP Rel 6	HSDPA Subtest-1	22.35	22.31	22.20	23.00	22.25	22.13	22.03	23.00
3GPP Rel 6	HSDPA Subtest-2	22.41	22.31	22.29	23.00	22.24	22.16	22.00	23.00
3GPP Rel 6	HSDPA Subtest-3	21.85	21.80	21.77	22.50	21.71	21.64	21.48	22.50
3GPP Rel 6	HSDPA Subtest-4	21.85	21.75	21.78	22.50	21.71	21.62	21.47	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.18	22.28	22.30	23.00	22.25	22.18	22.18	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.20	22.21	22.24	23.00	22.21	22.20	22.20	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.82	21.90	21.87	22.50	21.90	21.82	21.82	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.85	21.87	21.82	22.50	21.87	21.85	21.85	22.50
3GPP Rel 6	HSUPA Subtest-1	22.40	22.32	22.31	23.00	22.25	22.16	22.19	23.00
3GPP Rel 6	HSUPA Subtest-2	20.36	20.33	20.33	21.00	20.22	20.13	20.06	21.00
3GPP Rel 6	HSUPA Subtest-3	21.39	21.30	21.32	22.00	21.23	21.09	21.16	22.00
3GPP Rel 6	HSUPA Subtest-4	20.35	20.34	20.27	21.00	20.20	20.08	20.11	21.00
3GPP Rel 6	HSUPA Subtest-5	22.40	22.30	22.40	23.00	22.30	22.10	22.20	23.00













Band 48_FCC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150	56640			
Frequency (MHz)				3560	3609	3641	3690			
20	QPSK	1	0	23.35	23.48	23.32	23.25	24	0	
20	QPSK	1	49	23.48	23.51	23.39	23.28			
20	QPSK	1	99	23.52	23.56	23.41	23.34			
20	QPSK	50	0	21.27	21.31	21.27	21.18			
20	QPSK	50	24	21.25	21.28	21.24	21.10	23	1	
20	QPSK	50	50	21.17	21.22	21.09	21.05			
20	QPSK	100	0	21.26	21.30	21.11	21.07			
20	16QAM	1	0	21.17	21.31	21.29	21.29			
20	16QAM	1	49	21.05	21.36	21.29	21.29	23	1	
20	16QAM	1	99	21.17	21.43	21.21	21.24			
20	16QAM	50	0	20.20	20.25	20.27	20.15			
20	16QAM	50	24	20.26	20.32	20.06	20.20			
20	16QAM	50	50	20.14	20.21	20.26	20.12	22	2	
20	16QAM	100	0	20.26	20.30	20.12	20.24			
20	64QAM	1	0	20.18	20.25	20.29	20.07			
20	64QAM	1	49	20.22	20.33	20.09	20.24			
20	64QAM	1	99	20.07	20.39	20.19	20.21	22	2	
20	64QAM	50	0	19.33	19.23	19.26	19.11			
20	64QAM	50	24	19.20	19.24	19.42	19.42			
20	64QAM	50	50	19.05	19.30	19.08	19.26			
20	64QAM	100	0	19.29	19.27	19.05	19.17	21	3	
20	256QAM	1	0	17.30	17.34	17.58	17.61			
20	256QAM	1	49	17.51	17.32	17.34	17.44			
20	256QAM	1	99	17.59	17.41	17.59	17.52			
20	256QAM	50	0	17.64	17.50	17.29	17.54	19	5	
20	256QAM	50	24	17.37	17.55	17.50	17.43			
20	256QAM	50	50	17.55	17.57	17.60	17.57			
20	256QAM	100	0	17.25	17.52	17.38	17.42			
Channel				55315	55820	56160	56665			
Frequency (MHz)				3557.5	3608	3642	3692.5			
15	QPSK	1	0	23.35	23.44	23.36	23.32	24	0	
15	QPSK	1	37	23.38	23.42	23.42	23.40			
15	QPSK	1	74	23.35	23.42	23.43	23.46			
15	QPSK	36	0	21.12	21.28	21.28	21.05			
15	QPSK	36	20	21.20	21.10	21.10	21.13	23	1	
15	QPSK	36	39	21.21	21.25	21.26	21.30			
15	QPSK	75	0	21.10	21.20	21.07	21.11			
15	16QAM	1	0	21.20	21.14	21.05	21.18			
15	16QAM	1	37	21.19	21.09	21.13	21.07	23	1	
15	16QAM	1	74	21.15	21.23	21.13	21.30			
15	16QAM	36	0	20.17	20.09	20.18	20.05			
15	16QAM	36	20	20.28	20.20	20.08	20.26			
15	16QAM	36	39	20.17	20.28	20.23	20.17	22	2	
15	16QAM	75	0	20.12	20.07	20.09	20.27			
15	64QAM	1	0	20.20	20.14	20.19	20.06			
15	64QAM	1	37	20.26	20.28	20.13	20.26			
15	64QAM	1	74	20.23	20.14	20.23	20.22	22	2	
15	64QAM	36	0	19.34	19.34	19.30	19.14			
15	64QAM	36	20	19.09	19.06	19.21	19.33			
15	64QAM	36	39	19.12	19.29	19.30	19.24			
15	64QAM	75	0	19.30	19.29	19.09	19.21	21	3	
15	256QAM	1	0	17.62	17.42	17.63	17.26			
15	256QAM	1	37	17.55	17.44	17.50	17.41			
15	256QAM	1	74	17.51	17.57	17.44	17.55			
15	256QAM	36	0	17.63	17.50	17.46	17.56	19	5	
15	256QAM	36	20	17.56	17.55	17.27	17.53			
15	256QAM	36	39	17.51	17.40	17.48	17.25			
15	256QAM	75	0	17.45	17.29	17.25	17.42			
Channel				55290	55815	56165	56690			
Frequency (MHz)				3555	3607.5	3642.5	3695			
10	QPSK	1	0	23.50	23.30	23.38	23.50	24	0	
10	QPSK	1	25	23.41	23.49	23.49	23.40			
10	QPSK	1	49	23.40	23.35	23.43	23.34			
10	QPSK	25	0	21.23	21.18	21.22	21.26			
10	QPSK	25	12	21.11	21.28	21.25	21.09	23	1	
10	QPSK	25	25	21.19	21.25	21.05	21.18			
10	QPSK	50	0	21.27	21.30	21.06	21.18			
10	16QAM	1	0	21.27	21.13	21.20	21.16			
10	16QAM	1	25	21.14	21.21	21.25	21.10	23	1	
10	16QAM	1	49	21.17	21.07	21.16	21.30			
10	16QAM	25	0	20.21	20.09	20.05	20.11			
10	16QAM	25	12	20.08	20.18	20.15	20.19			
10	16QAM	25	25	20.24	20.18	20.11	20.09	22	2	
10	16QAM	50	0	20.22	20.25	20.06	20.07			
10	64QAM	1	0	20.27	20.07	20.30	20.29			
10	64QAM	1	25	20.10	20.21	20.07	20.17			
10	64QAM	1	49	20.21	20.30	20.14	20.24	22	2	
10	64QAM	25	0	19.22	19.34	19.28	19.35			
10	64QAM	25	12	19.14	19.22	19.27	19.24			
10	64QAM	25	25	19.21	19.08	19.31	19.26			
10	64QAM	50	0	19.15	19.09	19.28	19.30	21	3	
10	256QAM	1	0	17.41	17.31	17.36	17.37			
10	256QAM	1	25	17.43	17.60	17.62	17.51			
10	256QAM	1	49	17.30	17.65	17.52	17.37			
10	256QAM	25	0	17.44	17.30	17.54	17.30	19	5	
10	256QAM	25	12	17.26	17.61	17.33	17.41			
10	256QAM	25	25	17.61	17.30	17.26	17.54			
10	256QAM	50	0	17.49	17.51	17.38	17.49			
Channel				55265	55810	56170	56715			
Frequency (MHz)				3552.5	3607	3643	3697.5			
5	QPSK	1	0	23.47	23.49	23.42	23.45	24	0	
5	QPSK	1	12	23.43	23.43	23.43	23.47			
5	QPSK	1	24	23.49	23.48	23.44	23.42			
5	QPSK	12	0	21.21	21.12	21.26	21.25			
5	QPSK	12	7	21.12	21.27	21.30	21.17	23	1	
5	QPSK	12	13	21.29	21.08	21.23	21.17			
5	QPSK	25	0	21.05	21.21	21.20	21.21			
5	16QAM	1	0	21.09	21.13	21.07	21.22			
5	16QAM	1	12	21.26	21.29	21.19	21.05	23	1	
5	16QAM	1	24	21.20	21.19	21.09	21.29			
5	16QAM	12	0	20.07	20.28	20.25	20.13			
5	16QAM	12	7	20.13	20.09	20.17	20.22			
5	16QAM	12	13	20.28	20.20	20.10	20.17	22	2	
5	16QAM	25	0	20.19	20.08	20.29	20.14			
5	64QAM	1	0	20.08	20.15	20.22	20.30			
5	64QAM	1	12	20.15	20.25	20.13	20.05			
5	64QAM	1	24	20.14	20.08	20.14	20.12	22	2	
5	64QAM	12	0	19.19	19.21	19.26	19.11			
5	64QAM	12	7	19.27	19.14	19.33	19.24			
5	64QAM	12	13	19.16	19.27	19.05	19.35			
5	64QAM	25	0	19.16	19.22	19.12	19.28	21	3	
5	256QAM	1	0	17.29	17.64	17.25	17.61			
5	256QAM	1	12	17.48	17.28	17.27	17.62			
5	256QAM	1	24	17.28	17.53	17.26	17.52			
5	256QAM	12	0	17.55	17.62	17.31	17.52	19	5	
5	256QAM	12	7	17.50	17.39	17.31	17.27			
5	256QAM	12	13	17.45	17.41	17.49	17.43			
5	256QAM	25	0	17.42	17.28	17.51	17.52			















GSM850—ANT 1 DSIS	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.42	32.57	32.32	33.50	23.42	23.57	23.32	24.50
GPRS 1 Tx slot	32.31	32.54	32.24	33.50	23.31	23.54	23.24	24.50
GPRS 2 Tx slots	29.81	29.73	29.48	30.50	23.81	23.73	23.48	24.50
GPRS 3 Tx slots	28.32	28.18	28.01	29.00	24.06	23.92	23.75	24.74
GPRS 4 Tx slots	26.75	26.55	26.44	28.00	23.75	23.55	23.44	25.00
EDGE 1 Tx slot	26.38	26.57	26.35	27.50	17.38	17.57	17.35	18.50
EDGE 2 Tx slots	25.88	25.55	25.61	26.50	19.88	19.55	19.61	20.50
EDGE 3 Tx slots	23.48	23.31	23.76	25.00	19.22	19.05	19.50	20.74
EDGE 4 Tx slots	21.65	21.45	22.03	23.00	18.65	18.45	19.03	20.00

GSM1900—ANT 1 DSIS	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.05	25.89	26.61	27.50	17.05	16.89	17.61	18.50
GPRS 1 Tx slot	26.06	25.92	26.63	27.50	17.06	16.92	17.63	18.50
GPRS 2 Tx slots	23.40	23.28	23.88	24.50	17.40	17.28	17.88	18.50
GPRS 3 Tx slots	21.45	21.31	21.96	23.00	17.19	17.05	17.70	18.74
GPRS 4 Tx slots	19.84	19.67	20.29	21.00	16.84	16.67	17.29	18.00
EDGE 1 Tx slot	25.32	25.17	25.77	26.50	16.32	16.17	16.77	17.50
EDGE 2 Tx slots	23.40	23.28	23.96	24.50	17.40	17.28	17.98	18.50
EDGE 3 Tx slots	21.24	21.09	21.72	22.50	16.98	16.83	17.46	18.24
EDGE 4 Tx slots	19.87	19.72	20.37	21.50	16.87	16.72	17.37	18.50

Band	WCDMA II—ANT 1 DSIS	WCDMA V—ANT 1 DSIS	Tune-up Limit (dBm)	WCDMA V—ANT 1 DSIS			Tune-up Limit (dBm)		
				4132	4182	4233			
TX Channel	9262	9400	9538	4132	4182	4233			
Rx Channel	9662	9800	9938	4357	4407	4458			
Frequency (MHz)	1852.4	1880	1907.6	826.4	836.4	846.6			
3GPP Rel 99	AMR 12.2Kbps	16.70	16.70	16.68	17.50	23.18	23.07	22.97	24.00
3GPP Rel 99	RMC 12.2Kbps	16.72	16.71	16.70	17.50	23.26	23.13	23.05	24.00
3GPP Rel 6	HSDPA Subtest-1	15.72	15.72	15.73	16.50	22.25	22.13	22.03	23.00
3GPP Rel 6	HSDPA Subtest-2	15.76	15.74	15.67	16.50	22.24	22.16	22.00	23.00
3GPP Rel 6	HSDPA Subtest-3	15.21	15.22	15.28	16.00	21.71	21.64	21.48	22.50
3GPP Rel 6	HSDPA Subtest-4	15.20	15.23	15.31	16.00	21.71	21.62	21.47	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	15.64	15.75	15.75	16.50	22.25	22.18	22.18	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	15.74	15.76	15.74	16.50	22.21	22.20	22.20	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	15.33	15.37	15.35	16.00	21.90	21.82	21.82	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	15.36	15.38	15.31	16.00	21.87	21.85	21.85	22.50
3GPP Rel 6	HSUPA Subtest-1	15.87	15.84	15.86	16.50	22.25	22.16	22.19	23.00
3GPP Rel 6	HSUPA Subtest-2	13.84	13.80	13.83	14.50	20.22	20.13	20.06	21.00
3GPP Rel 6	HSUPA Subtest-3	14.92	14.77	14.78	15.50	21.23	21.09	21.18	22.00
3GPP Rel 6	HSUPA Subtest-4	13.85	13.89	13.77	14.50	20.20	20.08	20.11	21.00
3GPP Rel 6	HSUPA Subtest-5	15.89	15.75	15.89	16.50	22.30	22.10	22.20	23.00













GSM850—ANT 1 DSIS Sim-Tx	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.42	32.57	32.32	33.50	23.42	23.57	23.32	24.50
GPRS 1 Tx slot	32.31	32.54	32.24	33.50	23.31	23.54	23.24	24.50
GPRS 2 Tx slots	29.81	29.73	29.48	30.50	23.81	23.73	23.48	24.50
GPRS 3 Tx slots	28.32	28.18	28.01	29.00	24.06	23.92	23.75	24.74
GPRS 4 Tx slots	26.75	26.55	26.44	28.00	23.75	23.55	23.44	25.00
EDGE 1 Tx slot	26.38	26.57	26.35	27.50	17.38	17.57	17.35	18.50
EDGE 2 Tx slots	25.88	25.55	25.61	26.50	19.88	19.55	19.61	20.50
EDGE 3 Tx slots	23.48	23.31	23.76	25.00	19.22	19.05	19.50	20.74
EDGE 4 Tx slots	21.65	21.45	22.03	23.00	18.65	18.45	19.03	20.00

GSM1900—ANT 1 DSIS Sim-Tx	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	23.67	23.73	24.22	25.00	14.67	14.73	15.22	16.00
GPRS 1 Tx slot	23.69	23.74	24.21	25.00	14.69	14.74	15.21	16.00
GPRS 2 Tx slots	20.54	20.61	21.15	22.00	14.54	14.61	15.15	16.00
GPRS 3 Tx slots	19.00	18.80	19.40	20.50	14.74	14.54	15.14	16.24
GPRS 4 Tx slots	17.74	17.65	18.15	19.00	14.74	14.65	15.15	16.00
EDGE 1 Tx slot	23.61	24.00	24.20	25.00	14.61	15.00	15.20	16.00
EDGE 2 Tx slots	20.45	20.26	20.68	21.50	14.45	14.26	14.68	15.50
EDGE 3 Tx slots	19.10	19.10	19.12	20.00	14.84	14.84	14.86	15.74
EDGE 4 Tx slots	17.45	17.63	17.45	18.50	14.45	14.63	14.45	15.50

Band	WCDMA II—ANT 1 DSIS Sim-Tx			Tune-up Limit (dBm)	WCDMA V—ANT 1 DSIS Sim-Tx			Tune-up Limit (dBm)	
	Rx Channel	9262	9400		9538	4132	4182		4233
Frequency (MHz)	9662	9800	9938		4357	4407	4458		
3GPP Rel 99	AMR 12.2Kbps	15.24	15.23	15.20	16.00	23.18	23.07	22.97	24.00
3GPP Rel 99	RMC 12.2Kbps	15.27	15.26	15.23	16.00	23.26	23.13	23.05	24.00
3GPP Rel 6	HSDPA Subtest-1	14.23	14.23	14.18	15.00	22.25	22.13	22.03	23.00
3GPP Rel 6	HSDPA Subtest-2	14.26	14.23	14.21	15.00	22.24	22.16	22.00	23.00
3GPP Rel 6	HSDPA Subtest-3	13.75	13.68	13.76	14.50	21.71	21.64	21.48	22.50
3GPP Rel 6	HSDPA Subtest-4	13.65	13.78	13.77	14.50	21.71	21.62	21.47	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	14.11	14.21	14.29	15.00	22.25	22.18	22.18	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	14.23	14.29	14.22	15.00	22.21	22.20	22.20	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	13.79	13.82	13.84	14.50	21.90	21.82	21.82	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	13.84	13.86	13.77	14.50	21.87	21.85	21.85	22.50
3GPP Rel 6	HSUPA Subtest-1	14.34	14.37	14.38	15.00	22.25	22.16	22.19	23.00
3GPP Rel 6	HSUPA Subtest-2	12.38	12.25	12.32	13.00	20.22	20.13	20.06	21.00
3GPP Rel 6	HSUPA Subtest-3	13.42	13.31	13.25	14.00	21.23	21.09	21.18	22.00
3GPP Rel 6	HSUPA Subtest-4	12.32	12.42	12.32	13.00	20.20	20.08	20.11	21.00
3GPP Rel 6	HSUPA Subtest-5	14.40	14.20	14.43	15.00	22.30	22.10	22.20	23.00



Band 2\_ANT 1 DS13 Sim-Tx

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Level, Power Ch./Freq., Power Ch./Freq., Turn-on (dBm), MPR, and UPR. Contains multiple rows for different modulation types (QPSK, 16QAM, 64QAM, 256QAM) and RB sizes (1, 2, 4, 8, 16, 32, 64, 128).

Band 4\_ANT 1 DS13 Sim-Tx

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Level, Power Ch./Freq., Power Ch./Freq., Turn-on (dBm), MPR, and UPR. Contains multiple rows for different modulation types and RB sizes, similar to Band 2.

Band 5\_ANT 1 DS13 Sim-Tx

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Level, Power Ch./Freq., Power Ch./Freq., Turn-on (dBm), MPR, and UPR. Contains multiple rows for different modulation types and RB sizes, similar to Band 2.











GSM1900—ANT 1 DS16	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	Tx Channel	512	661		810	512	661		810
	Frequency (MHz)	1850.2	1880		1909.8	1850.2	1880		1909.8
GSM 1 Tx slot	28.82	28.68	29.27	30.00	19.82	19.68	20.27	21.00	
GPRS 1 Tx slot	28.84	28.73	29.28	30.00	19.84	19.73	20.28	21.00	
GPRS 2 Tx slots	25.71	25.75	25.93	27.00	19.71	19.75	19.93	21.00	
GPRS 3 Tx slots	23.89	24.06	24.46	25.50	19.63	19.80	20.22	21.24	
GPRS 4 Tx slots	22.70	22.85	23.08	24.00	19.70	19.65	20.08	21.00	
EDGE 1 Tx slot	25.81	25.59	25.88	27.00	16.81	16.59	16.88	18.00	
EDGE 2 Tx slots	24.79	24.78	24.83	25.50	18.79	18.78	18.83	19.50	
EDGE 3 Tx slots	23.23	22.90	23.06	24.50	18.97	18.64	18.80	20.24	
EDGE 4 Tx slots	21.52	21.38	21.29	22.50	18.52	18.38	18.29	19.50	

Band	WCDMA II—ANT 1 DS16			Tune-up Limit (dBm)	
	Tx Channel	9262	9400		9538
	Rx Channel	9662	9800		9938
Frequency (MHz)	1852.4	1880	1907.6		
3GPP Rel 99	AMR 12.2Kbps	19.68	19.66	19.63	20.50
3GPP Rel 99	RMC 12.2Kbps	19.70	19.67	19.65	20.50
3GPP Rel 6	HSDPA Subtest-1	18.74	18.75	18.69	19.50
3GPP Rel 6	HSDPA Subtest-2	18.76	18.72	18.63	19.50
3GPP Rel 6	HSDPA Subtest-3	18.26	18.23	18.31	19.00
3GPP Rel 6	HSDPA Subtest-4	18.19	18.26	18.31	19.00
3GPP Rel 8	DC-HSDPA Subtest-1	18.65	18.72	18.72	19.50
3GPP Rel 8	DC-HSDPA Subtest-2	18.79	18.75	18.76	19.50
3GPP Rel 8	DC-HSDPA Subtest-3	18.35	18.36	18.32	19.00
3GPP Rel 8	DC-HSDPA Subtest-4	18.41	18.41	18.34	19.00
3GPP Rel 6	HSUPA Subtest-1	18.85	18.82	18.84	19.50
3GPP Rel 6	HSUPA Subtest-2	16.87	16.79	16.82	17.50
3GPP Rel 6	HSUPA Subtest-3	17.89	17.74	17.73	18.50
3GPP Rel 6	HSUPA Subtest-4	16.88	16.92	16.73	17.50
3GPP Rel 6	HSUPA Subtest-5	18.91	18.75	18.88	19.50











### Band 48\_FCC\_Ant4 DSI6

Channel	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
20	19.82	19.97	19.84	19.88	20.5	0
20	19.87	19.91	19.77	19.84		
20	19.94	19.99	19.85	19.91		
20	19.82	19.93	19.81	19.84	20.5	0
20	19.89	19.89	19.78	19.75		
20	19.85	19.85	19.74	19.82		
20	19.84	19.86	19.77	19.74	20.5	0
20	19.97	19.84	19.91	19.95		
20	19.90	19.92	19.94	19.95		
20	19.94	19.92	19.98	19.97	20.5	0
20	19.87	19.92	19.83	19.89		
20	19.86	19.87	19.89	19.98		
20	19.87	19.90	19.95	19.95	20.5	0
20	19.90	19.93	19.88	19.94		
20	19.75	19.88	19.76	19.98		
20	19.78	19.87	19.77	19.95	20.5	0
20	19.85	19.85	19.75	19.95		
20	19.91	19.94	19.90	19.91		
20	19.84	19.92	19.89	19.94	20.5	0
20	19.87	19.90	19.98	19.91		
20	19.86	19.93	19.88	19.98		
20	17.57	17.65	17.54	17.84	19	1.5
20	17.52	17.57	17.45	17.68		
20	17.59	17.58	17.53	17.71		
20	17.85	17.94	17.91	18.12	19	1.5
20	17.85	17.90	17.87	18.05		
20	17.88	17.92	17.87	18.05		
20	17.74	17.80	17.81	17.97		
Channel	55315	55920	56160	56665	Tune-up limit	MPR
Frequency (MHz)	3557.5	3608	3642	3692.5	(dBm)	(dB)
15	19.75	19.92	19.84	19.87	20.5	0
15	19.80	19.84	19.72	19.81		
15	19.94	19.94	19.86	19.83		
15	19.88	19.91	19.74	19.76	20.5	0
15	19.87	19.83	19.74	19.69		
15	19.77	19.78	19.67	19.79		
15	19.85	19.81	19.71	19.66	20.5	0
15	19.97	19.83	19.83	19.90		
15	19.83	19.87	19.91	19.96		
15	19.93	19.90	19.93	19.96	20.5	0
15	19.86	19.89	19.78	19.83		
15	19.81	19.84	19.89	19.96		
15	19.83	19.84	19.90	19.95	20.5	0
15	19.87	19.87	19.80	19.93		
15	19.75	19.83	19.75	19.94		
15	19.76	19.81	19.76	19.88	20.5	0
15	19.81	19.78	19.70	19.93		
15	19.88	19.93	19.82	19.85		
15	19.78	19.86	19.87	19.91	20.5	0
15	19.84	19.83	19.94	19.90		
15	19.85	19.90	19.80	19.98		
15	17.53	17.63	17.55	17.80	19	1.5
15	17.44	17.57	17.44	17.68		
15	17.51	17.56	17.46	17.64		
15	17.82	17.88	17.88	18.12	19	1.5
15	17.84	17.84	17.79	18.02		
15	17.89	17.92	17.79	18.00		
15	17.69	17.74	17.81	17.95		
Channel	55290	55815	56165	56690	Tune-up limit	MPR
Frequency (MHz)	3555	3607.5	3642.5	3695	(dBm)	(dB)
10	19.83	19.89	19.80	19.83	20.5	0
10	19.85	19.86	19.71	19.80		
10	19.94	19.97	19.85	19.89		
10	19.87	19.84	19.80	19.84	20.5	0
10	19.89	19.84	19.72	19.75		
10	19.82	19.84	19.72	19.80		
10	19.82	19.80	19.78	19.74	20.5	0
10	19.97	19.80	19.87	19.88		
10	19.87	19.85	19.94	19.90		
10	19.92	19.85	19.91	19.89	20.5	0
10	19.79	19.84	19.78	19.88		
10	19.80	19.87	19.81	19.96		
10	19.88	19.88	19.88	19.94	20.5	0
10	19.86	19.88	19.89	19.92		
10	19.70	19.82	19.73	19.94		
10	19.73	19.81	19.78	19.90	20.5	0
10	19.82	19.84	19.75	19.89		
10	19.87	19.86	19.85	19.90		
10	19.77	19.87	19.82	19.87	20.5	0
10	19.83	19.88	19.94	19.88		
10	19.79	19.92	19.86	19.97		
10	17.58	17.63	17.53	17.84	19	1.5
10	17.44	17.50	17.38	17.69		
10	17.56	17.50	17.46	17.64		
10	17.82	17.93	17.85	18.13	19	1.5
10	17.78	17.89	17.79	17.98		
10	17.81	17.93	17.79	17.99		
10	17.74	17.74	17.74	17.91		
Channel	55265	55810	56170	56715	Tune-up limit	MPR
Frequency (MHz)	3552.5	3607	3643	3697.5	(dBm)	(dB)
5	19.77	19.94	19.81	19.82	20.5	0
5	19.86	19.89	19.78	19.85		
5	19.87	19.94	19.82	19.86		
5	19.90	19.92	19.73	19.85	20.5	0
5	19.86	19.84	19.75	19.68		
5	19.85	19.85	19.71	19.76		
5	19.82	19.79	19.78	19.71	20.5	0
5	19.89	19.83	19.83	19.92		
5	19.86	19.87	19.86	19.95		
5	19.92	19.88	19.98	19.90	20.5	0
5	19.81	19.91	19.77	19.81		
5	19.85	19.87	19.82	19.97		
5	19.79	19.91	19.83	19.90	20.5	0
5	19.86	19.87	19.81	19.93		
5	19.75	19.94	19.70	19.98		
5	19.70	19.83	19.69	19.90	20.5	0
5	19.78	19.79	19.67	19.90		
5	19.87	19.86	19.89	19.87		
5	19.76	19.86	19.81	19.95	20.5	0
5	19.80	19.86	19.98	19.91		
5	19.79	19.87	19.88	19.90		
5	17.50	17.57	17.47	17.82	19	1.5
5	17.45	17.56	17.46	17.66		
5	17.54	17.58	17.47	17.70		
5	17.80	17.86	17.90	18.07	19	1.5
5	17.81	17.87	17.87	18.05		
5	17.82	17.90	17.82	17.98		
5	17.73	17.75	17.82	17.96		





### Band 48\_FCC\_Ant4 DSI6 Sim-Tx

Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel		55340	55830	56150	56640		
Frequency (MHz)		3560	3609	3641	3690		
20	QPSK	1	0	16.72	16.84	16.61	16.79
20	QPSK	1	49	16.80	16.79	16.72	16.77
20	QPSK	1	99	16.84	16.91	16.74	16.90
20	QPSK	50	0	16.73	16.79	16.64	16.75
20	QPSK	50	24	16.67	16.69	16.62	16.84
20	QPSK	50	50	16.70	16.74	16.63	16.80
20	QPSK	100	0	16.70	16.73	16.70	16.72
20	16QAM	1	0	16.61	16.72	16.55	16.74
20	16QAM	1	49	16.70	16.70	16.59	16.83
20	16QAM	1	99	16.75	16.63	16.60	16.89
20	16QAM	50	0	16.78	16.79	16.69	16.87
20	16QAM	50	24	16.74	16.72	16.72	16.86
20	16QAM	50	50	16.78	16.74	16.75	16.83
20	16QAM	100	0	16.77	16.72	16.74	16.88
20	64QAM	1	0	16.48	16.51	16.37	16.54
20	64QAM	1	49	16.62	16.47	16.38	16.63
20	64QAM	1	99	16.65	16.40	16.45	16.72
20	64QAM	50	0	16.78	16.78	16.67	16.86
20	64QAM	50	24	16.79	16.74	16.71	16.88
20	64QAM	50	50	16.80	16.72	16.76	16.82
20	64QAM	100	0	16.82	16.76	16.73	16.80
20	256QAM	1	0	16.59	16.65	16.46	16.64
20	256QAM	1	49	16.54	16.50	16.36	16.66
20	256QAM	1	99	16.63	16.47	16.49	16.77
20	256QAM	50	0	16.82	16.88	16.78	16.87
20	256QAM	50	24	16.89	16.85	16.80	16.84
20	256QAM	50	50	16.82	16.87	16.82	16.81
20	256QAM	100	0	16.81	16.74	16.74	16.86
Channel		55315	55920	56160	56665		
Frequency (MHz)		3557.5	3608	3642	3692.5		
15	QPSK	1	0	16.67	16.79	16.59	16.76
15	QPSK	1	37	16.80	16.78	16.66	16.69
15	QPSK	1	74	16.84	16.86	16.70	16.86
15	QPSK	36	0	16.69	16.77	16.63	16.81
15	QPSK	36	20	16.68	16.66	16.54	16.84
15	QPSK	36	39	16.66	16.70	16.59	16.77
15	QPSK	75	0	16.66	16.69	16.71	16.70
15	16QAM	1	0	16.60	16.72	16.47	16.75
15	16QAM	1	37	16.62	16.63	16.51	16.80
15	16QAM	1	74	16.70	16.59	16.57	16.89
15	16QAM	36	0	16.70	16.73	16.70	16.84
15	16QAM	36	20	16.74	16.65	16.71	16.79
15	16QAM	36	39	16.75	16.68	16.75	16.82
15	16QAM	75	0	16.76	16.71	16.73	16.89
15	64QAM	1	0	16.41	16.52	16.35	16.47
15	64QAM	1	37	16.45	16.47	16.31	16.56
15	64QAM	1	74	16.48	16.35	16.45	16.71
15	64QAM	36	0	16.70	16.78	16.68	16.83
15	64QAM	36	20	16.73	16.73	16.69	16.84
15	64QAM	36	39	16.76	16.73	16.71	16.78
15	64QAM	75	0	16.78	16.74	16.67	16.81
15	256QAM	1	0	16.60	16.57	16.40	16.62
15	256QAM	1	37	16.50	16.49	16.37	16.58
15	256QAM	1	74	16.57	16.40	16.48	16.72
15	256QAM	36	0	16.74	16.87	16.71	16.83
15	256QAM	36	20	16.90	16.86	16.74	16.76
15	256QAM	36	39	16.82	16.85	16.80	16.77
15	256QAM	75	0	16.75	16.70	16.69	16.82
Channel		55290	55815	56165	56690		
Frequency (MHz)		3555	3607.5	3642.5	3695		
10	QPSK	1	0	16.65	16.84	16.62	16.78
10	QPSK	1	25	16.78	16.76	16.65	16.73
10	QPSK	1	49	16.81	16.85	16.74	16.85
10	QPSK	25	0	16.74	16.78	16.63	16.79
10	QPSK	25	12	16.64	16.61	16.58	16.82
10	QPSK	25	25	16.71	16.71	16.62	16.77
10	QPSK	50	0	16.69	16.69	16.64	16.68
10	16QAM	1	0	16.55	16.64	16.52	16.68
10	16QAM	1	25	16.63	16.65	16.55	16.83
10	16QAM	1	49	16.67	16.58	16.59	16.81
10	16QAM	25	0	16.72	16.72	16.63	16.81
10	16QAM	25	12	16.74	16.64	16.69	16.81
10	16QAM	25	25	16.71	16.68	16.74	16.82
10	16QAM	50	0	16.72	16.71	16.69	16.85
10	64QAM	1	0	16.43	16.52	16.38	16.51
10	64QAM	1	25	16.51	16.40	16.39	16.60
10	64QAM	1	49	16.50	16.33	16.37	16.69
10	64QAM	25	0	16.71	16.76	16.65	16.78
10	64QAM	25	12	16.78	16.70	16.63	16.86
10	64QAM	25	25	16.77	16.70	16.76	16.83
10	64QAM	50	0	16.80	16.69	16.72	16.75
10	256QAM	1	0	16.56	16.60	16.40	16.58
10	256QAM	1	25	16.54	16.43	16.37	16.67
10	256QAM	1	49	16.58	16.40	16.45	16.74
10	256QAM	25	0	16.79	16.87	16.71	16.83
10	256QAM	25	12	16.89	16.83	16.72	16.83
10	256QAM	25	25	16.81	16.82	16.77	16.74
10	256QAM	50	0	16.74	16.72	16.73	16.79
Channel		55265	55810	56170	56715		
Frequency (MHz)		3552.5	3607	3643	3697.5		
5	QPSK	1	0	16.67	16.85	16.54	16.79
5	QPSK	1	12	16.72	16.76	16.73	16.76
5	QPSK	1	24	16.79	16.87	16.71	16.86
5	QPSK	12	0	16.74	16.80	16.62	16.84
5	QPSK	12	7	16.59	16.69	16.57	16.77
5	QPSK	12	13	16.67	16.72	16.59	16.72
5	QPSK	25	0	16.69	16.69	16.71	16.72
5	16QAM	1	0	16.56	16.67	16.54	16.72
5	16QAM	1	12	16.67	16.63	16.54	16.84
5	16QAM	1	24	16.75	16.64	16.57	16.85
5	16QAM	12	0	16.72	16.79	16.66	16.84
5	16QAM	12	7	16.69	16.69	16.64	16.84
5	16QAM	12	13	16.71	16.73	16.70	16.80
5	16QAM	25	0	16.71	16.65	16.72	16.80
5	64QAM	1	0	16.42	16.44	16.32	16.47
5	64QAM	1	12	16.53	16.43	16.32	16.64
5	64QAM	1	24	16.55	16.40	16.38	16.72
5	64QAM	12	0	16.76	16.75	16.66	16.84
5	64QAM	12	7	16.76	16.73	16.70	16.86
5	64QAM	12	13	16.76	16.65	16.72	16.78
5	64QAM	25	0	16.81	16.75	16.69	16.81
5	256QAM	1	0	16.54	16.60	16.42	16.62
5	256QAM	1	12	16.46	16.51	16.30	16.61
5	256QAM	1	24	16.60	16.48	16.48	16.73
5	256QAM	12	0	16.76	16.83	16.74	16.80
5	256QAM	12	7	16.89	16.82	16.80	16.84
5	256QAM	12	13	16.74	16.81	16.75	16.79
5	256QAM	25	0	16.74	16.70	16.66	16.84



Uplink CA Power

CA_5B_Ant2											
Combination 10MHz+10MHz (50RB+50RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20450	20549	QPSK	1	49	1	0	2	0	Full Power	22.56	24.00
20575	20476	QPSK	1	49	1	0	2	0	Full Power	22.36	24.00
20600	20501	QPSK	1	0	1	49	2	0	Full Power	22.48	24.00
20450	20549	QPSK	1	49	1	0	2	0	DSI 2	21.59	23.00
20575	20476	QPSK	1	49	1	0	2	0	DSI 2	21.45	23.00
20600	20501	QPSK	1	0	1	49	2	0	DSI 2	21.57	23.00
20450	20549	QPSK	1	49	1	0	2	0	DSI 2 (Sim)	20.25	21.50
20575	20476	QPSK	1	49	1	0	2	0	DSI 2 (Sim)	19.98	21.50
20600	20501	QPSK	1	0	1	49	2	0	DSI 2 (Sim)	20.23	21.50
20450	20549	QPSK	1	49	1	0	2	0	DSI 3	22.39	24.00
20575	20476	QPSK	1	49	1	0	2	0	DSI 3	22.36	24.00
20600	20501	QPSK	1	0	1	49	2	0	DSI 3	22.48	24.00
20450	20549	QPSK	1	49	1	0	2	0	DSI 3 (Sim)	20.51	21.50
20575	20476	QPSK	1	49	1	0	2	0	DSI 3 (Sim)	20.31	21.50
20600	20501	QPSK	1	0	1	49	2	0	DSI 3 (Sim)	20.50	21.50

CA_6B_Ant2											
Combination 15MHz+5MHz (75RB+25RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132047	132140	QPSK	1	74	1	0	2	0	Full Power	22.50	24.00
132322	132415	QPSK	1	74	1	0	2	0	Full Power	22.49	24.00
132597	132504	QPSK	1	0	1	24	2	0	Full Power	22.56	24.00
132047	132140	QPSK	1	74	1	0	2	0	DSI 2	22.53	24.00
132322	132415	QPSK	1	74	1	0	2	0	DSI 2	22.71	24.00
132597	132504	QPSK	1	0	1	24	2	0	DSI 2	22.75	24.00
132047	132140	QPSK	1	74	1	0	2	0	DSI 2 (Sim)	20.03	21.50
132322	132415	QPSK	1	74	1	0	2	0	DSI 2 (Sim)	20.24	21.50
132597	132504	QPSK	1	0	1	24	2	0	DSI 2 (Sim)	20.46	21.50
132047	132140	QPSK	1	74	1	0	2	0	DSI 3	22.68	24.00
132322	132415	QPSK	1	74	1	0	2	0	DSI 3	22.84	24.00
132597	132504	QPSK	1	0	1	24	2	0	DSI 3	22.89	24.00
132047	132140	QPSK	1	74	1	0	2	0	DSI 3 (Sim)	19.53	21.00
132322	132415	QPSK	1	74	1	0	2	0	DSI 3 (Sim)	19.70	21.00
132597	132504	QPSK	1	0	1	24	2	0	DSI 3 (Sim)	19.85	21.00
132047	132140	QPSK	1	74	1	0	2	0	DSI 6	22.43	24.00
132322	132415	QPSK	1	74	1	0	2	0	DSI 6	22.60	24.00
132597	132504	QPSK	1	0	1	24	2	0	DSI 6	22.74	24.00
132047	132140	QPSK	1	74	1	0	2	0	DSI 6 (Sim)	19.14	20.50
132322	132415	QPSK	1	74	1	0	2	0	DSI 6 (Sim)	19.27	20.50
132597	132504	QPSK	1	0	1	24	2	0	DSI 6 (Sim)	19.38	20.50



CA_66C_Ant2											
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (100RB+100RB)				Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			PCC RB Size	PCC RB offset	SCC RB Size	SCC RB offset					
132072	132270	QPSK	1	99	1	0	2	0	Full Power	22.60	24.00
132322	132520	QPSK	1	99	1	0	2	0	Full Power	22.56	24.00
132572	132374	QPSK	1	0	1	99	2	0	Full Power	22.63	24.00
132072	132270	QPSK	1	99	1	0	2	0	DSI 2	22.56	24.00
132322	132520	QPSK	1	99	1	0	2	0	DSI 2	22.75	24.00
132572	132374	QPSK	1	0	1	99	2	0	DSI 2	22.76	24.00
132072	132270	QPSK	1	99	1	0	2	0	DSI 2 (Sim)	20.51	21.50
132322	132520	QPSK	1	99	1	0	2	0	DSI 2 (Sim)	20.43	21.50
132572	132374	QPSK	1	0	1	99	2	0	DSI 2 (Sim)	20.53	21.50
132072	132270	QPSK	1	99	1	0	2	0	DSI 3	22.79	24.00
132322	132520	QPSK	1	99	1	0	2	0	DSI 3	22.86	24.00
132572	132374	QPSK	1	0	1	99	2	0	DSI 3	22.90	24.00
132072	132270	QPSK	1	99	1	0	2	0	DSI 3 (Sim)	19.75	21.00
132322	132520	QPSK	1	99	1	0	2	0	DSI 3 (Sim)	19.82	21.00
132572	132374	QPSK	1	0	1	99	2	0	DSI 3 (Sim)	19.87	21.00
132072	132270	QPSK	1	99	1	0	2	0	DSI 6	22.75	24.00
132322	132520	QPSK	1	99	1	0	2	0	DSI 6	22.69	24.00
132572	132374	QPSK	1	0	1	99	2	0	DSI 6	22.78	24.00
132072	132270	QPSK	1	99	1	0	2	0	DSI 6 (Sim)	19.26	20.50
132322	132520	QPSK	1	99	1	0	2	0	DSI 6 (Sim)	19.28	20.50
132572	132374	QPSK	1	0	1	99	2	0	DSI 6 (Sim)	19.40	20.50

CA_48C_Ant4											
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (100RB+100RB)				Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			PCC RB Size	PCC RB offset	SCC RB Size	SCC RB offset					
55340	55538	QPSK	1	99	1	0	2	0	Full Power	22.80	24.00
55830	56028	QPSK	1	99	1	0	2	0	Full Power	22.62	24.00
56150	56348	QPSK	1	99	1	0	2	0	Full Power	22.83	24.00
56640	56442	QPSK	1	0	1	99	2	0	Full Power	22.99	24.00
55340	55538	QPSK	1	99	1	0	2	0	DSI 2 (Sim)	22.51	23.50
55830	56028	QPSK	1	99	1	0	2	0	DSI 2 (Sim)	22.41	23.50
56150	56348	QPSK	1	99	1	0	2	0	DSI 2 (Sim)	22.51	23.50
56640	56442	QPSK	1	0	1	99	2	0	DSI 2 (Sim)	22.89	23.50
55340	55538	QPSK	1	99	1	0	2	0	DSI 3	19.51	20.50
55830	56028	QPSK	1	99	1	0	2	0	DSI 3	19.43	20.50
56150	56348	QPSK	1	99	1	0	2	0	DSI 3	19.47	20.50
56640	56442	QPSK	1	0	1	99	2	0	DSI 3	19.82	20.50
55340	55538	QPSK	1	99	1	0	2	0	DSI 3 (Sim)	16.67	17.50
55830	56028	QPSK	1	99	1	0	2	0	DSI 3 (Sim)	16.64	17.50
56150	56348	QPSK	1	99	1	0	2	0	DSI 3 (Sim)	16.69	17.50
56640	56442	QPSK	1	0	1	99	2	0	DSI 3 (Sim)	16.77	17.50
55340	55538	QPSK	1	99	1	0	2	0	DSI 6	19.51	20.50
55830	56028	QPSK	1	99	1	0	2	0	DSI 6	19.43	20.50
56150	56348	QPSK	1	99	1	0	2	0	DSI 6	19.47	20.50
56640	56442	QPSK	1	0	1	99	2	0	DSI 6	19.82	20.50
55340	55538	QPSK	1	99	1	0	2	0	DSI 6 (Sim)	16.67	17.50
55830	56028	QPSK	1	99	1	0	2	0	DSI 6 (Sim)	16.64	17.50
56150	56348	QPSK	1	99	1	0	2	0	DSI 6 (Sim)	16.69	17.50
56640	56442	QPSK	1	0	1	99	2	0	DSI 6 (Sim)	16.77	17.50





CA_5B_Ant1											
Combination 10MHz+10MHz (50RB+50RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20450	20549	QPSK	1	49	1	0	2	0	Full Power	22.57	24.00
20575	20476	QPSK	1	49	1	0	2	0	Full Power	22.65	24.00
20600	20501	QPSK	1	0	1	49	2	0	Full Power	22.55	24.00
20450	20549	QPSK	1	49	1	0	2	0	DSI 3 & DSI 3 (Sim)	22.72	24.00
20575	20476	QPSK	1	49	1	0	2	0	DSI 3 & DSI 3 (Sim)	22.78	24.00
20600	20501	QPSK	1	0	1	49	2	0	DSI 3 & DSI 3 (Sim)	22.70	24.00

CA_6B_Ant1											
Combination 15MHz+5MHz (75RB+25RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132047	132140	QPSK	1	74	1	0	2	0	Full Power	22.49	24.00
132322	132415	QPSK	1	74	1	0	2	0	Full Power	22.75	24.00
132597	132504	QPSK	1	0	1	24	2	0	Full Power	22.65	24.00
132047	132140	QPSK	1	74	1	0	2	0	DSI 3	16.81	18.00
132322	132415	QPSK	1	74	1	0	2	0	DSI 3	16.95	18.00
132597	132504	QPSK	1	0	1	24	2	0	DSI 3	16.89	18.00
132047	132140	QPSK	1	74	1	0	2	0	DSI 3 (Sim)	15.31	16.50
132322	132415	QPSK	1	74	1	0	2	0	DSI 3 (Sim)	15.58	16.50
132597	132504	QPSK	1	0	1	24	2	0	DSI 3 (Sim)	15.47	16.50
132047	132140	QPSK	1	74	1	0	2	0	DSI 6 & DSI 6 (Sim)	20.73	22.00
132322	132415	QPSK	1	74	1	0	2	0	DSI 6 & DSI 6 (Sim)	20.96	22.00
132597	132504	QPSK	1	0	1	24	2	0	DSI 6 & DSI 6 (Sim)	20.88	22.00



CA_66C_Ant1											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132072	132270	QPSK	1	99	1	0	2	0	Full Power	22.69	24.00
132322	132520	QPSK	1	99	1	0	2	0	Full Power	22.79	24.00
132572	132374	QPSK	1	0	1	99	2	0	Full Power	22.78	24.00
132072	132270	QPSK	1	99	1	0	2	0	DSI 3	16.89	18.00
132322	132520	QPSK	1	99	1	0	2	0	DSI 3	16.99	18.00
132572	132374	QPSK	1	0	1	99	2	0	DSI 3	16.98	18.00
132072	132270	QPSK	1	99	1	0	2	0	DSI 3 (Sim)	15.55	16.50
132322	132520	QPSK	1	99	1	0	2	0	DSI 3 (Sim)	15.60	16.50
132572	132374	QPSK	1	0	1	99	2	0	DSI 3 (Sim)	15.52	16.50
132072	132270	QPSK	1	99	1	0	2	0	DSI 6 & DSI 6 (Sim)	20.87	22.00
132322	132520	QPSK	1	99	1	0	2	0	DSI 6 & DSI 6 (Sim)	20.98	22.00
132572	132374	QPSK	1	0	1	99	2	0	DSI 6 & DSI 6 (Sim)	20.96	22.00





Full Power level/Default Power level/ Pmax Power Level for 5G NR

n2_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	23.23	23.25	22.96			
20	PI2 BPSK	1	53	23.22	23.20	22.95	24.0	0.0	
20	PI2 BPSK	1	104	22.98	23.19	22.82			
20	PI2 BPSK	50	0	22.63	22.75	22.48	23.5	0.5	
20	PI2 BPSK	50	26	23.20	23.24	22.94	24.0	0.0	
20	PI2 BPSK	50	56	22.48	22.69	22.26	23.5	0.5	
20	PI2 BPSK	100	0	22.67	22.73	22.44			
20	QPSK	1	1	22.97	23.16	22.94			
20	QPSK	1	53	22.94	23.12	22.89	24.0	0.0	
20	QPSK	1	104	22.80	22.73	22.84			
20	QPSK	50	0	21.88	22.08	21.88	23.0	1.0	
20	QPSK	50	26	22.72	22.93	22.69	24.0	0.0	
20	QPSK	50	56	21.71	21.88	21.71	23.0	1.0	
20	QPSK	100	0	21.68	21.93	21.71			
20	16QAM	1	1	21.88	22.04	21.80	23.0	1.0	
20	16QAM	1	1	20.15	20.36	20.17	21.5	2.5	
20	256QAM	1	1	18.53	18.69	18.44	19.5	4.5	
Channel				371600	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.3	1860	1872.5	24.0	0.0	
15	PI2 BPSK	1	1	23.08	23.10	22.87	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1860	1905			
10	PI2 BPSK	1	1	23.10	23.12	22.86	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1860	1907.5			
5	PI2 BPSK	1	1	23.10	23.18	22.83	24.0	0.0	

n2_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	23.10	23.20	23.19			
20	PI2 BPSK	1	53	23.09	23.25	23.17	24.0	0.0	
20	PI2 BPSK	1	104	23.05	23.24	23.16			
20	PI2 BPSK	50	0	22.36	22.74	22.38	23.5	0.5	
20	PI2 BPSK	50	26	22.98	23.21	23.16	24.0	0.0	
20	PI2 BPSK	50	56	22.86	22.76	22.79	23.5	0.5	
20	PI2 BPSK	100	0	22.48	22.74	22.72			
20	QPSK	1	1	22.73	22.97	22.77			
20	QPSK	1	53	22.94	23.17	22.98	24.0	0.0	
20	QPSK	1	104	22.98	22.88	22.82			
20	QPSK	50	0	21.74	22.04	21.89	23.0	1.0	
20	QPSK	50	26	22.84	22.95	22.74	24.0	0.0	
20	QPSK	50	56	21.72	22.00	21.82	23.0	1.0	
20	QPSK	100	0	21.76	22.02	21.92			
20	16QAM	1	1	21.84	22.23	22.12	23.0	1.0	
20	16QAM	1	1	20.33	20.55	20.41	21.5	2.5	
20	256QAM	1	1	18.61	18.82	18.72	19.5	4.5	
Channel				371600	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.3	1860	1872.5	24.0	0.0	
15	PI2 BPSK	1	1	23.02	23.18	23.16	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1860	1905			
10	PI2 BPSK	1	1	23.01	23.25	23.08	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1860	1907.5			
5	PI2 BPSK	1	1	23.01	23.19	23.15	24.0	0.0	

n5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	838			
20	PI2 BPSK	1	1	23.24	23.23	23.21			
20	PI2 BPSK	1	53	23.21	23.22	23.19	24.0	0.0	
20	PI2 BPSK	1	104	22.95	22.93	22.87			
20	PI2 BPSK	50	0	22.89	22.94	22.92	24.0	0.0	
20	PI2 BPSK	50	26	23.13	23.23	22.97	24.0	0.0	
20	PI2 BPSK	50	56	22.98	22.97	22.92	24.0	0.0	
20	PI2 BPSK	100	0	23.11	23.16	23.02			
20	QPSK	1	1	23.05	23.21	23.13			
20	QPSK	1	53	23.06	23.14	23.06	24.0	0.0	
20	QPSK	1	104	22.82	22.93	22.84			
20	QPSK	50	0	22.48	22.81	22.51	23.5	0.5	
20	QPSK	50	26	22.86	23.02	22.89	24.0	0.0	
20	QPSK	50	56	22.25	22.36	22.30	23.5	0.5	
20	QPSK	100	0	22.48	22.99	22.53			
20	16QAM	1	1	22.48	22.99	22.53	23.5	0.5	
20	16QAM	1	1	20.86	20.97	20.92	22.0	2.0	
20	256QAM	1	1	19.18	19.33	19.27	20.0	4.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.3	836.3	841.3	24.0	0.0	
15	PI2 BPSK	1	1	23.10	23.12	23.19	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826	836.5	844			
10	PI2 BPSK	1	1	23.17	23.13	23.09	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	PI2 BPSK	1	1	23.19	23.13	23.18	24.0	0.0	



n5_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.05	23.07	22.92			
20	PI2 BPSK	1	83	22.88	22.90	22.86	24.0	0.0	
20	PI2 BPSK	1	104	22.84	22.74	22.93			
20	PI2 BPSK	50	0	22.85	22.82	22.86	24.0	0.0	
20	PI2 BPSK	50	28	22.84	23.05	22.81	24.0	0.0	
20	PI2 BPSK	50	56	22.76	22.78	22.80	24.0	0.0	
20	PI2 BPSK	100	0	22.95	23.00	22.81			
20	QPSK	1	1	23.06	23.03	22.86			
20	QPSK	1	83	22.91	23.01	22.87	24.0	0.0	
20	QPSK	1	104	22.79	22.80	22.74			
20	QPSK	50	0	22.42	22.45	22.37	23.5	0.5	
20	QPSK	50	28	22.77	22.86	22.73	24.0	0.0	
20	QPSK	50	56	22.23	22.24	22.13	23.5	0.5	
20	QPSK	100	0	22.26	22.32	22.22			
20	16QAM	1	1	22.59	22.68	22.63	23.5	0.5	
20	64QAM	1	1	20.91	20.94	20.88	22.0	2.0	
20	256QAM	1	1	19.28	19.33	19.20	20.0	4.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.85	22.95	22.75	24.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.40	22.46	22.43	24.0	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	22.97	22.94	22.78	24.0	0.0	

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	23.17	23.23	23.15			
40	PI2 BPSK	1	108	23.13	23.27	23.12	24.0	0.0	
40	PI2 BPSK	1	214	23.11	23.16	23.10			
40	PI2 BPSK	108	0	22.46	22.47	22.49	23.5	0.5	
40	PI2 BPSK	108	54	23.11	23.22	23.10	24.0	0.0	
40	PI2 BPSK	108	108	22.82	22.49	22.48	23.5	0.5	
40	PI2 BPSK	216	0	22.37	22.55	22.35			
40	QPSK	1	1	22.93	23.00	22.88			
40	QPSK	1	108	22.88	22.88	22.81	24.0	0.0	
40	QPSK	1	214	22.82	22.84	22.75			
40	QPSK	108	0	21.85	21.87	21.73	23.0	1.0	
40	QPSK	108	54	22.75	22.84	22.72	24.0	0.0	
40	QPSK	108	108	21.93	22.02	21.96			
40	QPSK	216	0	21.86	21.89	21.77	23.0	1.0	
40	16QAM	1	1	22.16	22.20	22.07	23.0	1.0	
40	64QAM	1	1	20.74	20.84	20.72	21.5	2.5	
40	256QAM	1	1	18.65	18.65	18.50	19.5	4.5	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	22.85	22.87	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.80	22.80	22.83	24.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.97	22.79	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.95	22.78	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	22.97	22.86	22.82	24.0	0.0	

n66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	23.16	23.23	23.08			
40	PI2 BPSK	1	108	22.91	23.15	22.95	24.0	0.0	
40	PI2 BPSK	1	214	22.99	22.89	22.77			
40	PI2 BPSK	108	0	22.26	22.44	22.55	23.5	0.5	
40	PI2 BPSK	108	54	23.04	23.17	22.98	24.0	0.0	
40	PI2 BPSK	108	108	22.68	22.52	22.34	23.5	0.5	
40	PI2 BPSK	216	0	22.52	22.63	22.33			
40	QPSK	1	1	22.87	22.86	22.94			
40	QPSK	1	108	23.17	23.20	23.14	24.0	0.0	
40	QPSK	1	214	22.89	22.89	22.83			
40	QPSK	108	0	21.76	21.73	21.68	23.0	1.0	
40	QPSK	108	54	23.12	23.10	22.99	24.0	0.0	
40	QPSK	108	108	21.78	21.75	21.72			
40	QPSK	216	0	21.86	21.91	21.79	23.0	1.0	
40	16QAM	1	1	21.88	21.96	21.84	23.0	1.0	
40	64QAM	1	1	20.52	20.54	20.40	21.5	2.5	
40	256QAM	1	1	18.67	18.65	18.50	19.5	4.5	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	22.80	23.16	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.81	23.00	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.84	23.19	22.93	24.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.99	23.11	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	22.90	23.10	22.96	24.0	0.0	



**Part27Q\_n77\_Ant 4**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.25	3500.01			
100	PI2 BPSK	1	137	23.18			24.0	0.0
100	PI2 BPSK	1	271	23.17				
100	PI2 BPSK	136	0	23.12			24.0	0.0
100	PI2 BPSK	136	69	23.14			24.0	0.0
100	PI2 BPSK	136	138	23.11			24.0	0.0
100	PI2 BPSK	270	0	23.15			24.0	0.0
100	QPSK	1	1	23.20				
100	QPSK	1	137	23.13			24.0	0.0
100	QPSK	1	271	23.24				
100	QPSK	136	0	23.16			24.0	0.0
100	QPSK	136	69	23.19			24.0	0.0
100	QPSK	136	138	23.14			24.0	0.0
100	QPSK	270	0	22.07			23.0	1.0
100	16QAM	1	1	22.04			23.0	1.0
100	16QAM	1	1	20.54			21.5	2.5
100	256QAM	1	1	18.59			19.5	4.5
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3485	3500.01	3504.99	24.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.75	23.04	22.59	24.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	22.74	23.05	22.63	24.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.72	23.05	22.69	24.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	22.73	23.07	22.81	24.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.72	23.08	22.80	24.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.71	23.07	22.82	24.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.71	23.02	22.67	24.0	0.0

**Part27Q\_n77\_Ant 4(HPUe)**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	26.10	3500.01			
100	PI2 BPSK	1	137	26.09			27.0	0.0
100	PI2 BPSK	1	271	25.73				
100	PI2 BPSK	136	0	25.20			26.5	0.5
100	PI2 BPSK	136	69	26.05			27.0	0.0
100	PI2 BPSK	136	138	25.18			26.5	0.5
100	PI2 BPSK	270	0	25.14			26.5	0.5
100	QPSK	1	1	25.57				
100	QPSK	1	137	25.98			27.0	0.0
100	QPSK	1	271	25.74				
100	QPSK	136	0	26.11			27.0	0.0
100	QPSK	136	69	26.53			27.0	0.0
100	QPSK	136	138	25.13			27.0	0.0
100	QPSK	270	0	24.71			26.0	1.0
100	16QAM	1	1	26.04			26.0	1.0
100	16QAM	1	1	23.62			24.5	2.5
100	256QAM	1	1	21.81			22.5	4.5
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.56	26.00	25.94	27.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.89	25.92	25.89	27.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	25.81	25.94	25.78	27.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.82	25.88	25.86	27.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.85	25.95	25.85	27.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.88	25.93	25.82	27.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.91	25.84	25.80	27.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.81	25.92	25.88	27.0	0.0

**Part 270 n77\_Ant 4**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.15	3700	3840	3930	
100	PI2 BPSK	1	137	23.05	23.05	23.05	22.77	24.0
100	PI2 BPSK	1	271	22.98	23.01	22.76		
100	PI2 BPSK	136	0	22.99	23.05	22.76	24.0	0.0
100	PI2 BPSK	136	69	23.01	23.06	22.78	24.0	0.0
100	PI2 BPSK	136	138	22.93	22.95	22.73	24.0	0.0
100	PI2 BPSK	270	0	22.91	22.92	22.83	24.0	0.0
100	QPSK	1	1	22.93	22.98	22.87		
100	QPSK	1	137	22.95	22.92	22.49	24.0	0.0
100	QPSK	1	271	22.58	22.98	22.58		
100	QPSK	136	0	22.82	22.87	22.59		
100	QPSK	136	69	22.97	22.48	22.87	24.0	0.0
100	QPSK	136	138	22.40	22.46	22.33	24.0	0.0
100	QPSK	270	0	21.02	21.05	21.01	23.0	1.0
100	16QAM	1	1	21.07	21.08	21.05	23.0	1.0
100	16QAM	1	1	20.24	20.38	20.20	21.5	2.5
100	256QAM	1	1	18.47	18.92	18.43	19.5	4.5
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3745.02	3840	3943.98	24.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	23.01	23.08	22.69	24.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	23.05	23.12	22.68	24.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	23.08	23.08	22.69	24.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	23.06	23.09	22.70	24.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.07	23.04	22.73	24.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.99	23.06	22.73	24.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	23.07	23.07	22.69	24.0	0.0



**Part 270 n77\_Ant 4(HPUE)**

EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.30	25.31	25.18		
100	PI2 BPSK	1	137	25.22	25.25	25.12	27.0	0.0
100	PI2 BPSK	1	271	25.21	25.23	25.08		
100	PI2 BPSK	135	0	25.00	25.25	25.03	26.5	0.5
100	PI2 BPSK	135	69	25.25	25.30	25.07	27.0	0.0
100	PI2 BPSK	135	138	24.79	24.81	24.72		
100	PI2 BPSK	270	0	24.88	24.87	24.76	26.5	0.5
100	QPSK	1	1	25.01	25.11	25.04		
100	QPSK	1	137	25.04	25.00	25.05	27.0	0.0
100	QPSK	1	271	25.02	25.05	25.03		
100	QPSK	135	0	25.12	25.15	25.13		
100	QPSK	135	69	25.01	25.06	25.04	27.0	0.0
100	QPSK	135	138	25.02	25.04	25.03		
100	QPSK	270	0	24.14	24.20	24.13	26.0	1.0
100	16QAM	1	1	24.31	24.36	24.21	26.0	1.0
100	64QAM	1	1	22.96	23.06	22.94	24.5	2.5
100	256QAM	1	1	21.27	21.36	21.25	22.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	23.22	23.22	23.03	27.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	23.22	23.25	23.03	27.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	25.22	25.25	25.03	27.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.21	25.18	25.01	27.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.24	25.18	25.02	27.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.22	25.24	25.00	27.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.24	25.24	25.08	27.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.21	25.25	25.07	27.0	0.0

**Part27Q n78\_Ant 4**

EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.69	22.69	22.69		
100	PI2 BPSK	1	137	22.79	22.85	22.68	24.0	0.0
100	PI2 BPSK	1	271	22.90	22.90	22.90		
100	PI2 BPSK	135	0	22.98	22.98	22.98	23.5	0.5
100	PI2 BPSK	135	69	22.98	22.98	22.98	24.0	0.0
100	PI2 BPSK	135	138	22.52	22.52	22.52	23.5	0.5
100	PI2 BPSK	270	0	22.55	22.55	22.55		
100	QPSK	1	1	22.92	22.92	22.92		
100	QPSK	1	137	22.87	22.87	22.87	24.0	0.0
100	QPSK	1	271	22.50	22.50	22.50		
100	QPSK	135	0	22.09	22.09	22.09		
100	QPSK	135	69	22.61	22.61	22.78	24.0	0.0
100	QPSK	135	138	22.02	22.02	22.02		
100	QPSK	270	0	21.88	21.88	21.88	23.0	1.0
100	16QAM	1	1	22.05	22.05	22.05	23.0	1.0
100	64QAM	1	1	20.77	20.77	20.77	21.5	2.5
100	256QAM	1	1	18.91	18.91	18.91	19.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	22.74	22.85	22.68	24.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.76	22.76	22.60	24.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	22.72	22.79	22.65	24.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.71	22.78	22.64	24.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	22.69	22.77	22.60	24.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.70	22.80	22.69	24.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.73	22.85	22.65	24.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.75	22.84	22.60	24.0	0.0

**Part270 n78\_Ant 4**

EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.08	23.08	23.08		
100	PI2 BPSK	1	137	23.08	23.08	23.08	24.0	0.0
100	PI2 BPSK	1	271	22.84	22.84	22.84		
100	PI2 BPSK	135	0	22.08	22.08	22.08	23.5	0.5
100	PI2 BPSK	135	69	23.02	23.02	23.02	24.0	0.0
100	PI2 BPSK	135	138	21.92	21.92	21.92	23.5	0.5
100	PI2 BPSK	270	0	21.98	21.98	21.98		
100	QPSK	1	1	23.02	23.02	23.02		
100	QPSK	1	137	22.90	22.90	22.90	24.0	0.0
100	QPSK	1	271	22.80	22.80	22.80		
100	QPSK	135	0	21.83	21.83	21.83		
100	QPSK	135	69	21.85	21.85	21.85	24.0	0.0
100	QPSK	135	138	21.82	21.82	21.82		
100	QPSK	270	0	21.82	21.82	21.82	23.0	1.0
100	16QAM	1	1	21.78	21.78	21.78	23.0	1.0
100	64QAM	1	1	20.19	20.19	20.19	21.5	2.5
100	256QAM	1	1	18.17	18.17	18.17	19.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	22.58	22.65	22.47	24.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.53	22.59	22.38	24.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	22.45	22.49	22.34	24.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.50	22.57	22.42	24.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	22.43	22.58	22.31	24.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.47	22.59	22.35	24.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.49	22.50	22.39	24.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.48	22.55	22.41	24.0	0.0



Part27Q\_n77\_Ant 5

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Contains multiple rows for different modulation schemes like Pi2 BPSK, QPSK, 16QAM, 64QAM, and 256QAM across various frequencies.

Part 27Q n77\_Ant 5

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Contains multiple rows for different modulation schemes like Pi2 BPSK, QPSK, 16QAM, 64QAM, and 256QAM across various frequencies.

Part27Q n78\_Ant 5

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Contains multiple rows for different modulation schemes like Pi2 BPSK, QPSK, 16QAM, 64QAM, and 256QAM across various frequencies.





### Part270 n78\_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	19.62			20.5	0.0
100	PI2 BPSK	1	137	19.61				
100	PI2 BPSK	1	271	19.45			20.0	0.5
100	PI2 BPSK	135	0	18.18				
100	PI2 BPSK	135	69	19.61			20.5	0.0
100	PI2 BPSK	135	138	18.65				
100	PI2 BPSK	270	0	18.75			20.0	0.5
100	QPSK	1	1	19.45				
100	QPSK	1	137	19.39			20.5	0.0
100	QPSK	1	271	19.42				
100	QPSK	135	0	18.51			20.5	0.0
100	QPSK	135	69	19.19				
100	QPSK	135	138	18.50			19.5	1.0
100	QPSK	270	0	17.86				
100	16QAM	1	1	18.01			19.5	1.0
100	16QAM	1	1	16.79				
100	256QAM	1	1	14.69			18.0	4.5
Channel				648668	650000	650332		
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)
30	PI2 BPSK	1	1	19.49	19.61	19.28	20.5	0.0
Channel				649304	650000	650660		
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)
80	PI2 BPSK	1	1	19.50	19.58	19.43	20.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	PI2 BPSK	1	1	19.38	19.59	19.33	20.5	0.0
Channel				648668	650000	651332		
Frequency (MHz)				3730.02	3750	3759.98	(dBm)	(dB)
80	PI2 BPSK	1	1	19.57	19.60	19.59	20.5	0.0
Channel				648304	650000	651660		
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)
50	PI2 BPSK	1	1	19.54	19.61	19.53	20.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	PI2 BPSK	1	1	19.53	19.58	19.49	20.5	0.0
Channel				647668	650000	652332		
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)
30	PI2 BPSK	1	1	19.52	19.59	19.34	20.5	0.0
Channel				647304	650000	652660		
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)
20	PI2 BPSK	1	1	19.37	19.60	19.60	20.5	0.0
Channel								





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				649668	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)
100	PI2 BPSK	1	1	16.96	16.96		18.0	0.0
100	PI2 BPSK	1	137	16.83	16.83			
100	PI2 BPSK	1	271	16.84	16.84		18.0	0.0
100	PI2 BPSK	135	0	16.78	16.78		18.0	0.0
100	PI2 BPSK	135	69	16.95	16.95		18.0	0.0
100	PI2 BPSK	135	138	16.88	16.88		18.0	0.0
100	PI2 BPSK	270	0	16.91	16.91			
100	QPSK	1	1	16.90	16.90		18.0	0.0
100	QPSK	1	137	16.90	16.90			
100	QPSK	1	271	16.83	16.83			
100	QPSK	135	0	16.93	16.93		18.0	0.0
100	QPSK	135	69	16.86	16.86			
100	QPSK	135	138	16.91	16.91			
100	QPSK	270	0	15.95	15.95		17.0	1.0
100	16QAM	1	1	16.08	16.08		17.0	1.0
100	16QAM	1	1	14.52	14.52		15.5	2.5
100	256QAM	1	1	12.51	12.51		13.5	4.5
Channel				649668	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)
90	PI2 BPSK	1	1	16.83	16.85	16.92	18.0	0.0
Channel				649304	650000	650696	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)
80	PI2 BPSK	1	1	16.85	16.86	16.93	18.0	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	PI2 BPSK	1	1	16.86	16.86	16.93	18.0	0.0
Channel				648668	650000	651332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)
60	PI2 BPSK	1	1	16.84	16.86	16.88	18.0	0.0
Channel				648304	650000	651696	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)
50	PI2 BPSK	1	1	16.88	16.89	16.91	18.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	PI2 BPSK	1	1	16.88	16.85	16.90	18.0	0.0
Channel				647668	650000	652332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)
30	PI2 BPSK	1	1	16.84	16.86	16.89	18.0	0.0
Channel				647304	650000	652696	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)
20	PI2 BPSK	1	1	16.83	16.85	16.88	18.0	0.0



### Part27Q\_n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3500.01								
100	PI2 BPSK	1	1	17.13				
100	PI2 BPSK	1	137	17.05				0.0
100	PI2 BPSK	1	271	17.01				18.0
100	PI2 BPSK	135	0	17.08				0.0
100	PI2 BPSK	135	69	17.09				18.0
100	PI2 BPSK	135	138	17.02				0.0
100	PI2 BPSK	270	0	16.83				18.0
100	QPSK	1	1	17.05				0.0
100	QPSK	1	137	17.04				18.0
100	QPSK	1	271	17.03				0.0
100	QPSK	135	0	17.08				18.0
100	QPSK	135	69	17.06				0.0
100	QPSK	135	138	17.03				18.0
100	QPSK	270	0	16.02				17.0
100	16QAM	1	1	16.33				17.0
100	64QAM	1	1	14.63				15.5
100	256QAM	1	1	12.51				13.5
Channel								
Frequency (MHz)								
633000								
633334								
633668								
90	PI2 BPSK	1	1	17.11	17.12	17.02	18.0	0.0
Channel								
Frequency (MHz)								
3490.02								
3500.01								
3510.00								
80	PI2 BPSK	1	1	17.05	17.07	16.96	18.0	0.0
Channel								
Frequency (MHz)								
632334								
633334								
634332								
70	PI2 BPSK	1	1	17.03	17.03	16.94	18.0	0.0
Channel								
Frequency (MHz)								
632000								
633334								
634668								
60	PI2 BPSK	1	1	17.03	17.04	16.97	18.0	0.0
Channel								
Frequency (MHz)								
3475.02								
3500.01								
3525.00								
50	PI2 BPSK	1	1	17.03	17.07	16.93	18.0	0.0
Channel								
Frequency (MHz)								
631334								
633334								
635332								
40	PI2 BPSK	1	1	17.04	17.06	16.97	18.0	0.0
Channel								
Frequency (MHz)								
631000								
633334								
635668								
30	PI2 BPSK	1	1	17.06	17.02	16.94	18.0	0.0
Channel								
Frequency (MHz)								
3460.02								
3500.01								
3540.00								
20	PI2 BPSK	1	1	17.01	17.06	16.92	18.0	0.0

### Part 270 n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
650000								
650000								
650000								
100	PI2 BPSK	1	1	17.13	17.16	16.82		
100	PI2 BPSK	1	137	16.99	17.08	16.92	18.0	0.0
100	PI2 BPSK	1	271	16.95	17.03	16.86		
100	PI2 BPSK	135	0	16.92	16.98	16.98	18.0	0.0
100	PI2 BPSK	135	69	16.86	17.14	16.98	18.0	0.0
100	PI2 BPSK	135	138	16.83	17.02	16.83		
100	PI2 BPSK	270	0	16.89	17.10	16.91	18.0	0.0
100	QPSK	1	1	16.85	17.05	16.89		
100	QPSK	1	137	16.91	17.01	16.87	18.0	0.0
100	QPSK	1	271	16.81	16.97	16.95		
100	QPSK	135	0	16.90	16.95	16.93	18.0	0.0
100	QPSK	135	69	16.86	16.91	16.78		
100	QPSK	135	138	16.41	16.61	16.50		
100	QPSK	270	0	15.96	16.01	15.82	17.0	1.0
100	16QAM	1	1	16.24	16.34	16.26	17.0	1.0
100	64QAM	1	1	14.45	14.61	14.55	15.5	2.5
100	256QAM	1	1	12.58	12.71	12.60	13.5	4.5
Channel								
Frequency (MHz)								
646968								
650000								
652332								
90	PI2 BPSK	1	1	17.08	17.08	16.77	18.0	0.0
Channel								
Frequency (MHz)								
3740.01								
3840.00								
3939.99								
80	PI2 BPSK	1	1	17.07	17.09	16.72	18.0	0.0
Channel								
Frequency (MHz)								
648000								
650000								
653000								
70	PI2 BPSK	1	1	17.04	17.07	16.72	18.0	0.0
Channel								
Frequency (MHz)								
646968								
650000								
653332								
60	PI2 BPSK	1	1	17.03	17.10	16.75	18.0	0.0
Channel								
Frequency (MHz)								
3725.01								
3840.00								
3954.99								
50	PI2 BPSK	1	1	17.06	17.06	16.77	18.0	0.0
Channel								
Frequency (MHz)								
648000								
650000								
654000								
40	PI2 BPSK	1	1	17.08	17.11	16.75	18.0	0.0
Channel								
Frequency (MHz)								
647968								
650000								
654332								
30	PI2 BPSK	1	1	17.06	17.06	16.76	18.0	0.0
Channel								
Frequency (MHz)								
3710.01								
3840.00								
3969.99								
20	PI2 BPSK	1	1	17.08	17.09	16.75	18.0	0.0

### Part27Q n78\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3500.01								
100	PI2 BPSK	1	1	17.12				
100	PI2 BPSK	1	137	17.11				18.0
100	PI2 BPSK	1	271	17.02				17.5
100	PI2 BPSK	135	0	16.91				17.5
100	PI2 BPSK	135	69	17.10				18.0
100	PI2 BPSK	135	138	16.81				17.5
100	PI2 BPSK	270	0	16.53				18.0
100	QPSK	1	1	17.11				18.0
100	QPSK	1	137	17.05				0.0
100	QPSK	1	271	17.01				0.0
100	QPSK	135	0	17.03				18.0
100	QPSK	135	69	17.09				0.0
100	QPSK	135	138	17.05				17.0
100	QPSK	270	0	16.11				17.0
100	16QAM	1	1	16.32				17.0
100	64QAM	1	1	14.58				15.5
100	256QAM	1	1	12.81				13.5
Channel								
Frequency (MHz)								
633000								
633334								
640332								
90	PI2 BPSK	1	1	17.10	17.03	17.07	18.0	0.0
Channel								
Frequency (MHz)								
3490.02								
3500.01								
3609.99								
80	PI2 BPSK	1	1	17.03	17.05	16.98	18.0	0.0
Channel								
Frequency (MHz)								
632334								
633334								
641000								
70	PI2 BPSK	1	1	17.05	17.06	16.98	18.0	0.0
Channel								
Frequency (MHz)								
632000								
633334								
641332								
60	PI2 BPSK	1	1	17.03	17.08	16.98	18.0	0.0
Channel								
Frequency (MHz)								
3475.02								
3500.01								
3624.99								
50	PI2 BPSK	1	1	17.00	17.03	16.99	18.0	0.0
Channel								
Frequency (MHz)								
631334								
633334								
642000								
40	PI2 BPSK	1	1	17.03	17.07	16.99	18.0	0.0
Channel								
Frequency (MHz)								
631000								
633334								
642332								
30	PI2 BPSK	1	1	17.00	17.06	17.01	18.0	0.0
Channel								
Frequency (MHz)								
3460.02								
3500.01								
3639.99								
20	PI2 BPSK	1	1	17.00	17.04	16.97	18.0	0.0



### Part270 n78\_Ant 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750				
100	PI2 BPSK	1	1		17.14			
100	PI2 BPSK	1	137		17.05		18.0	0.0
100	PI2 BPSK	1	271		17.01			
100	PI2 BPSK	135	0		16.55		17.5	0.5
100	PI2 BPSK	135	69		17.12		18.0	0.0
100	PI2 BPSK	135	138		16.45			
100	PI2 BPSK	270	0		16.53		17.5	0.5
100	QPSK	1	1		17.13			
100	QPSK	1	137		17.11		18.0	0.0
100	QPSK	1	271		17.05			
100	QPSK	135	0		17.06			
100	QPSK	135	69		17.02		18.0	0.0
100	QPSK	135	138		17.01			
100	QPSK	270	0		17.00		17.0	1.0
100	16QAM	1	1		16.33		17.0	1.0
100	16QAM	1	1		14.76		15.5	2.5
100	256QAM	1	1		12.75		13.5	4.5
Channel				648668	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)
90	PI2 BPSK	1	1	17.07	17.10	17.06	18.0	0.0
Channel				649304	650000	650656	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)
80	PI2 BPSK	1	1	17.08	17.10	17.04	18.0	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	PI2 BPSK	1	1	17.08	17.12	17.06	18.0	0.0
Channel				648668	650000	651332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)
60	PI2 BPSK	1	1	17.05	17.13	17.05	18.0	0.0
Channel				649304	650000	651664	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)
50	PI2 BPSK	1	1	17.10	17.09	17.03	18.0	0.0
Channel				649000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	PI2 BPSK	1	1	17.07	17.11	17.03	18.0	0.0
Channel				647668	650000	652332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)
30	PI2 BPSK	1	1	17.09	17.10	17.03	18.0	0.0
Channel				649304	650000	652664	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)
20	PI2 BPSK	1	1	17.07	17.11	17.03	18.0	0.0



Reduced Power Mode for 5G NR

n2_Ant 2 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	22.25	22.27	22.05		
20	PI/2 BPSK	1	53	21.95	22.08	21.91	23.0	0.0
20	PI/2 BPSK	1	104	22.09	22.24	22.01		
20	PI/2 BPSK	50	0	22.06	22.13	21.92	23.0	0.0
20	PI/2 BPSK	50	28	22.07	22.14	21.93	23.0	0.0
20	PI/2 BPSK	50	56	21.95	22.09	21.89		
20	PI/2 BPSK	100	0	22.08	22.13	21.93	23.0	0.0
20	QPSK	1	1	22.15	22.22	22.06		
20	QPSK	1	53	21.94	22.04	21.83	23.0	0.0
20	QPSK	1	104	22.02	22.11	21.94		
20	QPSK	50	0	21.96	22.13	21.92	23.0	0.0
20	QPSK	50	28	21.95	22.04	21.81	23.0	0.0
20	QPSK	50	56	21.94	22.06	21.84		
20	QPSK	100	0	21.98	22.08	21.91	23.0	0.0
20	16QAM	1	1	22.11	22.24	22.08	23.0	0.0
20	64QAM	1	1	20.33	20.55	20.41	21.5	1.5
20	256QAM	1	1	18.61	18.82	18.72	19.5	3.5
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	PI/2 BPSK	1	1	22.15	22.22	22.01	23.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	PI/2 BPSK	1	1	22.15	22.14	21.91	23.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1860	1907.5		
5	PI/2 BPSK	1	1	22.14	22.22	22.00	23.0	0.0



### Part27Q\_n77\_Ant 4 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1		3500.01			
100	Pi2 BPSK	1	137	21.84				
100	Pi2 BPSK	1	271	21.65			22.5	0.0
100	Pi2 BPSK	1	271	21.53				
100	Pi2 BPSK	136	0	21.75			22.5	0.0
100	Pi2 BPSK	136	69	21.80			22.5	0.0
100	Pi2 BPSK	136	138	21.51			22.5	0.0
100	Pi2 BPSK	270	0	21.64			22.5	0.0
100	QPSK	1	1	21.77				
100	QPSK	1	137	21.68			22.5	0.0
100	QPSK	1	271	21.57				
100	QPSK	136	0	21.68				
100	QPSK	136	69	21.71			22.5	0.0
100	QPSK	136	138	21.58				
100	QPSK	270	0	21.68			22.5	0.0
100	16QAM	1	1	21.83			22.5	0.0
100	16QAM	1	1	20.54			21.5	1.0
100	256QAM	1	1	18.59			19.5	3.0
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	3495	3500.01	3504.98		
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	21.74	21.73	21.72	22.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	21.64	21.65	21.66	22.5	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	21.73	21.58	21.61	22.5	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	21.65	21.67	21.68	22.5	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	21.73	21.64	21.57	22.5	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	21.71	21.69	21.58	22.5	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	21.74	21.64	21.63	22.5	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	21.75	21.58	21.66	22.5	0.0

### Part27Q\_n77\_Ant 4(HPUE) DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1		3500.01			
100	Pi2 BPSK	1	137	21.84				
100	Pi2 BPSK	1	271	21.65			22.5	0.0
100	Pi2 BPSK	1	271	21.53				
100	Pi2 BPSK	136	0	21.75			22.5	0.0
100	Pi2 BPSK	136	69	21.80			22.5	0.0
100	Pi2 BPSK	136	138	21.51			22.5	0.0
100	Pi2 BPSK	270	0	21.64			22.5	0.0
100	QPSK	1	1	21.77				
100	QPSK	1	137	21.68			22.5	0.0
100	QPSK	1	271	21.57				
100	QPSK	136	0	21.68				
100	QPSK	136	69	21.71			22.5	0.0
100	QPSK	136	138	21.58				
100	QPSK	270	0	21.68			22.5	0.0
100	16QAM	1	1	21.83			22.5	0.0
100	16QAM	1	1	20.54			21.5	1.0
100	256QAM	1	1	18.59			19.5	3.0
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	3495	3500.01	3504.98		
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	21.74	21.73	21.72	22.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	21.64	21.65	21.66	22.5	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	21.73	21.58	21.61	22.5	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	21.65	21.67	21.68	22.5	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	21.73	21.64	21.57	22.5	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	21.71	21.69	21.58	22.5	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	21.74	21.64	21.63	22.5	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	21.75	21.58	21.66	22.5	0.0

### Part 270 n77\_Ant 4 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	3720	3840	3930		
100	Pi2 BPSK	1	137	21.55	21.57	21.48		
100	Pi2 BPSK	1	137	21.49	21.49	21.45	22.5	0.0
100	Pi2 BPSK	1	271	21.48	21.49	21.41		
100	Pi2 BPSK	136	0	21.50	21.51	21.44	22.5	0.0
100	Pi2 BPSK	136	69	21.51	21.52	21.46	22.5	0.0
100	Pi2 BPSK	136	138	21.42	21.45	21.39	22.5	0.0
100	Pi2 BPSK	270	0	21.45	21.48	21.42	22.5	0.0
100	QPSK	1	1	21.48	21.51	21.45		
100	QPSK	1	137	21.52	21.54	21.48	22.5	0.0
100	QPSK	1	271	21.54	21.55	21.48		
100	QPSK	136	0	21.53	21.54	21.48		
100	QPSK	136	69	21.45	21.46	21.39	22.5	0.0
100	QPSK	136	138	21.42	21.45	21.39	22.5	0.0
100	QPSK	270	0	21.45	21.48	21.41	22.5	0.0
100	16QAM	1	1	21.48	21.51	21.43	22.5	0.0
100	16QAM	1	1	20.24	20.38	20.20	21.5	1.0
100	256QAM	1	1	18.47	18.59	18.43	19.5	3.0
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	3720	3840	3930		
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	21.28	21.31	21.22	22.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	21.26	21.33	21.24	22.5	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	21.31	21.26	21.17	22.5	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	21.25	21.30	21.22	22.5	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	21.29	21.34	21.20	22.5	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	21.27	21.29	21.24	22.5	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	21.27	21.29	21.24	22.5	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	21.25	21.28	21.23	22.5	0.0



### Part 270 n77\_Ant 4(HPUe) DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.55	21.57	21.49		
100	PI2 BPSK	1	137	21.49	21.52	21.45	22.5	0.0
100	PI2 BPSK	1	271	21.48	21.49	21.41		
100	PI2 BPSK	135	0	21.50	21.51	21.44	22.5	0.0
100	PI2 BPSK	135	69	21.51	21.52	21.46	22.5	0.0
100	PI2 BPSK	135	138	21.42	21.45	21.39		
100	PI2 BPSK	270	0	21.45	21.48	21.42	22.5	0.0
100	QPSK	1	1	21.48	21.51	21.45		
100	QPSK	1	137	21.52	21.54	21.48	22.5	0.0
100	QPSK	1	271	21.54	21.55	21.48		
100	QPSK	135	0	21.53	21.54	21.48		
100	QPSK	135	69	21.45	21.46	21.39	22.5	0.0
100	QPSK	135	138	21.42	21.45	21.39		
100	QPSK	270	0	21.45	21.48	21.41	22.5	0.0
100	16QAM	1	1	21.48	21.51	21.43	22.5	0.0
100	64QAM	1	1	20.24	20.39	20.20	21.5	1.0
100	256QAM	1	1	18.47	18.59	18.43	19.5	3.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	21.25	21.31	21.22	22.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	21.26	21.33	21.24	22.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	21.31	21.28	21.17	22.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	21.25	21.30	21.22	22.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	21.22	21.34	21.20	22.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	21.20	21.29	21.23	22.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	21.17	21.29	21.24	22.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	21.25	21.28	21.23	22.5	0.0

### Part27Q n78\_Ant 4 DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.82				
100	PI2 BPSK	1	137	21.76			22.5	0.0
100	PI2 BPSK	1	271	21.54				
100	PI2 BPSK	135	0	21.72			22.5	0.0
100	PI2 BPSK	135	69	21.74			22.5	0.0
100	PI2 BPSK	135	138	21.52				
100	PI2 BPSK	270	0	21.64			22.5	0.0
100	QPSK	1	1	21.73				
100	QPSK	1	137	21.75			22.5	0.0
100	QPSK	1	271	21.53				
100	QPSK	135	0	21.72				
100	QPSK	135	69	21.66			22.5	0.0
100	QPSK	135	138	21.62				
100	QPSK	270	0	21.68			22.5	0.0
100	16QAM	1	1	21.80			22.5	0.0
100	64QAM	1	1	20.46			21.5	1.0
100	256QAM	1	1	18.30			19.5	3.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	21.81	21.72	21.61	22.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	21.83	21.75	21.64	22.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	21.85	21.78	21.51	22.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	21.81	21.74	21.48	22.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	21.82	21.73	21.47	22.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	21.83	21.71	21.49	22.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	21.86	21.77	21.48	22.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	21.83	21.73	21.47	22.5	0.0

### Part270 n78\_Ant 4 DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.59				
100	PI2 BPSK	1	137	21.49			22.5	0.0
100	PI2 BPSK	1	271	21.42				
100	PI2 BPSK	135	0	21.49			22.5	0.0
100	PI2 BPSK	135	69	21.53			22.5	0.0
100	PI2 BPSK	135	138	21.38				
100	PI2 BPSK	270	0	21.41			22.5	0.0
100	QPSK	1	1	21.47				
100	QPSK	1	137	21.51			22.5	0.0
100	QPSK	1	271	21.37				
100	QPSK	135	0	21.52				
100	QPSK	135	69	21.41			22.5	0.0
100	QPSK	135	138	21.40				
100	QPSK	270	0	21.38			22.5	0.0
100	16QAM	1	1	21.54			22.5	0.0
100	64QAM	1	1	20.14			21.5	1.0
100	256QAM	1	1	18.01			19.5	3.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	21.53	21.55	21.52	22.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	21.57	21.58	21.55	22.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	21.57	21.58	21.31	22.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	21.41	21.28	21.33	22.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	21.45	21.37	21.55	22.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	21.43	21.45	21.35	22.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	21.44	21.54	21.31	22.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	21.45	21.55	21.33	22.5	0.0





### n2\_Ant 2 DS12 Sim-Tx

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				370000	376000	380000		
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	20.61	20.65	20.50	21.5	0.0
20	PI2 BPSK	1	53	20.53	20.56	20.41		
20	PI2 BPSK	1	104	20.49	20.52	20.38		
20	PI2 BPSK	50	0	20.38	20.42	20.30	21.5	0.0
20	PI2 BPSK	50	28	20.48	20.51	20.34	21.5	0.0
20	PI2 BPSK	50	56	20.36	20.40	20.27		
20	PI2 BPSK	100	0	20.40	20.44	20.27	21.5	0.0
20	QPSK	1	1	20.55	20.58	20.42		
20	QPSK	1	53	20.39	20.43	20.31	21.5	0.0
20	QPSK	1	104	20.45	20.49	20.37		
20	QPSK	50	0	20.47	20.51	20.39	21.5	0.0
20	QPSK	50	28	20.38	20.42	20.27	21.5	0.0
20	QPSK	50	56	20.39	20.43	20.31		
20	QPSK	100	0	20.43	20.46	20.30	21.5	0.0
20	16QAM	1	1	20.53	20.57	20.43	21.5	0.0
20	64QAM	1	1	20.33	20.55	20.41	21.5	0.0
20	256QAM	1	1	18.81	18.82	18.72	19.5	2.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1860	1802.5		
15	PI2 BPSK	1	1	20.47	20.48	20.33	21.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1860	1905		
10	PI2 BPSK	1	1	20.45	20.49	20.34	21.5	0.0
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1827.5	1860	1827.5		
5	PI2 BPSK	1	1	20.43	20.51	20.34	21.5	0.0

### n5\_Ant 2 DS12 Sim-Tx

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				166500	167500	167500		
Frequency (MHz)				834	836.5	838		
20	PI2 BPSK	1	1	21.45	21.46	21.38		
20	PI2 BPSK	1	53	21.30	21.32	21.23	22.5	0.0
20	PI2 BPSK	1	104	21.08	21.12	21.02		
20	PI2 BPSK	50	0	21.23	21.26	21.18	22.5	0.0
20	PI2 BPSK	50	28	21.29	21.34	21.24	22.5	0.0
20	PI2 BPSK	50	56	21.13	21.17	21.07		
20	PI2 BPSK	100	0	21.22	21.25	21.15	22.5	0.0
20	QPSK	1	1	21.38	21.42	21.33		
20	QPSK	1	53	21.21	21.24	21.16	22.5	0.0
20	QPSK	1	104	21.03	21.09	21.00		
20	QPSK	50	0	21.28	21.33	21.23	22.5	0.0
20	QPSK	50	28	21.19	21.24	21.14	22.5	0.0
20	QPSK	50	56	21.12	21.15	21.08		
20	QPSK	100	0	21.26	21.31	21.24	22.5	0.0
20	16QAM	1	1	21.42	21.45	21.41	22.5	0.0
20	64QAM	1	1	20.91	20.94	20.88	22.0	0.5
20	256QAM	1	1	19.28	19.33	19.20	20.0	2.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	PI2 BPSK	1	1	21.33	21.31	21.24	22.5	0.0
Channel				165800	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	PI2 BPSK	1	1	21.27	21.29	21.21	22.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	842.5		
5	PI2 BPSK	1	1	21.34	21.30	21.25	22.5	0.0

### n66\_Ant 2 DS12 Sim-Tx

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				349000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.15	22.28	22.08		
40	PI2 BPSK	1	108	22.12	22.20	22.01	23.0	0.0
40	PI2 BPSK	1	214	22.12	22.19	22.00		
40	PI2 BPSK	108	0	21.97	22.06	21.88	23.0	0.0
40	PI2 BPSK	108	54	22.16	22.24	22.02	23.0	0.0
40	PI2 BPSK	108	108	21.94	22.01	21.79		
40	PI2 BPSK	216	0	22.13	22.21	22.00	23.0	0.0
40	QPSK	1	1	22.16	22.25	22.03		
40	QPSK	1	108	22.18	22.26	22.07	23.0	0.0
40	QPSK	1	214	22.11	22.20	22.02		
40	QPSK	108	0	21.74	21.83	21.65	23.0	0.0
40	QPSK	108	54	22.13	22.20	22.00	23.0	0.0
40	QPSK	108	108	21.88	21.96	21.78		
40	QPSK	216	0	21.90	21.99	21.79	23.0	0.0
40	16QAM	1	1	21.82	21.91	21.71	23.0	0.0
40	64QAM	1	1	20.52	20.54	20.40	21.5	1.5
40	256QAM	1	1	18.67	18.05	18.50	19.5	3.5
Channel				349000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	PI2 BPSK	1	1	22.01	22.13	21.92	23.0	0.0
Channel				349000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI2 BPSK	1	1	22.00	22.12	21.92	23.0	0.0
Channel				349000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI2 BPSK	1	1	21.99	22.14	21.94	23.0	0.0
Channel				349000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI2 BPSK	1	1	21.98	22.10	21.94	23.0	0.0
Channel				349000	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI2 BPSK	1	1	21.99	22.10	21.93	23.0	0.0



Part27Q_n77_Ant 4 DS12 Sim-Tx										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3500.01										
100	PI2 BPSK	1	1	20.00						
100	PI2 BPSK	1	137	19.83				21.0	0.0	
100	PI2 BPSK	1	271	19.81						
100	PI2 BPSK	135	0	19.89				21.0	0.0	
100	PI2 BPSK	135	69	19.98				21.0	0.0	
100	PI2 BPSK	135	138	19.74				21.0	0.0	
100	PI2 BPSK	270	0	19.86				21.0	0.0	
100	QPSK	1	1	19.98						
100	QPSK	1	137	19.97				21.0	0.0	
100	QPSK	1	271	19.74						
100	QPSK	135	0	19.97						
100	QPSK	135	69	19.91				21.0	0.0	
100	QPSK	135	138	19.77						
100	QPSK	270	0	19.86				21.0	0.0	
100	16QAM	1	1	20.00				21.0	0.0	
100	16QAM	1	1	20.03				21.0	0.0	
100	256QAM	1	1	19.99				19.5	1.5	
Channel										
Frequency (MHz)										
63300.01										
63300.01										
90	PI2 BPSK	1	1	3495	3500.01	3504.99				
Channel										
Frequency (MHz)										
63300.01										
80	PI2 BPSK	1	1	19.51	19.62	19.43		21.0	0.0	
Channel										
Frequency (MHz)										
3495.02										
70	PI2 BPSK	1	1	19.53	19.65	19.42		21.0	0.0	
Channel										
Frequency (MHz)										
63300.01										
60	PI2 BPSK	1	1	19.51	19.62	19.43		21.0	0.0	
Channel										
Frequency (MHz)										
631668										
50	PI2 BPSK	1	1	19.51	19.64	19.46		21.0	0.0	
Channel										
Frequency (MHz)										
631334										
40	PI2 BPSK	1	1	19.54	19.62	19.46		21.0	0.0	
Channel										
Frequency (MHz)										
3495										
30	PI2 BPSK	1	1	19.54	19.65	19.44		21.0	0.0	
Channel										
Frequency (MHz)										
3490.02										
20	PI2 BPSK	1	1	19.51	19.62	19.43		21.0	0.0	

Part27Q_n77_Ant 4(HPUE) DS12 Sim-Tx										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3500.01										
100	PI2 BPSK	1	1	20.00						
100	PI2 BPSK	1	137	19.83				21.0	0.0	
100	PI2 BPSK	1	271	19.81						
100	PI2 BPSK	135	0	19.89				21.0	0.0	
100	PI2 BPSK	135	69	19.98				21.0	0.0	
100	PI2 BPSK	135	138	19.74				21.0	0.0	
100	PI2 BPSK	270	0	19.86				21.0	0.0	
100	QPSK	1	1	19.98						
100	QPSK	1	137	19.97				21.0	0.0	
100	QPSK	1	271	19.74						
100	QPSK	135	0	19.97						
100	QPSK	135	69	19.91				21.0	0.0	
100	QPSK	135	138	19.77						
100	QPSK	270	0	19.86				21.0	0.0	
100	16QAM	1	1	20.00				21.0	0.0	
100	16QAM	1	1	20.03				21.0	0.0	
100	256QAM	1	1	19.99				19.5	1.5	
Channel										
Frequency (MHz)										
63300.01										
63300.01										
90	PI2 BPSK	1	1	3495	3500.01	3504.99				
Channel										
Frequency (MHz)										
63300.01										
80	PI2 BPSK	1	1	19.51	19.62	19.43		21.0	0.0	
Channel										
Frequency (MHz)										
3495.02										
70	PI2 BPSK	1	1	19.53	19.65	19.42		21.0	0.0	
Channel										
Frequency (MHz)										
63300.01										
60	PI2 BPSK	1	1	19.51	19.62	19.43		21.0	0.0	
Channel										
Frequency (MHz)										
631668										
50	PI2 BPSK	1	1	19.51	19.64	19.46		21.0	0.0	
Channel										
Frequency (MHz)										
631334										
40	PI2 BPSK	1	1	19.54	19.62	19.46		21.0	0.0	
Channel										
Frequency (MHz)										
3495										
30	PI2 BPSK	1	1	19.54	19.65	19.44		21.0	0.0	
Channel										
Frequency (MHz)										
3490.02										
20	PI2 BPSK	1	1	19.51	19.62	19.43		21.0	0.0	

Part 270 n77_Ant 4 DS12 Sim-Tx										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3720										
100	PI2 BPSK	1	1	19.27	19.37	19.25				
100	PI2 BPSK	1	137	19.19	19.32	19.18		21.0	0.0	
100	PI2 BPSK	1	271	19.21	19.35	19.21				
100	PI2 BPSK	135	0	19.18	19.30	19.15		21.0	0.0	
100	PI2 BPSK	135	69	19.20	19.34	19.22		21.0	0.0	
100	PI2 BPSK	135	138	19.13	19.26	19.11		21.0	0.0	
100	PI2 BPSK	270	0	19.15	19.27	19.11		21.0	0.0	
100	QPSK	1	1	19.26	19.36	19.21				
100	QPSK	1	137	19.25	19.34	19.20		21.0	0.0	
100	QPSK	1	271	19.23	19.36	19.23				
100	QPSK	135	0	19.23	19.33	19.17				
100	QPSK	135	69	19.11	19.24	19.16		21.0	0.0	
100	QPSK	135	138	19.14	19.26	19.15				
100	QPSK	270	0	19.20	19.28	19.15		21.0	0.0	
100	16QAM	1	1	19.19	19.31	19.20		21.0	0.0	
100	16QAM	1	1	19.18	19.27	19.16		21.0	0.0	
100	256QAM	1	1	19.47	19.56	19.43		19.5	1.5	
Channel										
Frequency (MHz)										
648668										
648668										
90	PI2 BPSK	1	1	19.22	19.29	19.16				
Channel										
Frequency (MHz)										
648334										
80	PI2 BPSK	1	1	19.18	19.27	19.15		21.0	0.0	
Channel										
Frequency (MHz)										
3735										
70	PI2 BPSK	1	1	19.19	19.30	19.20		21.0	0.0	
Channel										
Frequency (MHz)										
648668										
60	PI2 BPSK	1	1	19.22	19.32	19.15		21.0	0.0	
Channel										
Frequency (MHz)										
648334										
50	PI2 BPSK	1	1	19.20	19.29	19.17		21.0	0.0	
Channel										
Frequency (MHz)										
648000										
40	PI2 BPSK	1	1	19.20	19.31	19.15		21.0	0.0	
Channel										
Frequency (MHz)										
648668										
30	PI2 BPSK	1	1	19.17	19.32	19.19		21.0	0.0	
Channel										
Frequency (MHz)										
3710.01										
20	PI2 BPSK	1	1	19.19	19.28	19.20		21.0	0.0	



### Part 270 n77\_Ant 4(HPUE) DS12 Sim-Tx

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.27	19.37	19.25		
100	PI2 BPSK	1	137	19.19	19.32	19.18	21.0	0.0
100	PI2 BPSK	1	271	19.21	19.36	19.21		
100	PI2 BPSK	135	0	19.18	19.30	19.15	21.0	0.0
100	PI2 BPSK	135	69	19.20	19.34	19.22	21.0	0.0
100	PI2 BPSK	135	138	19.13	19.28	19.11	21.0	0.0
100	PI2 BPSK	270	0	19.19	19.27	19.11	21.0	0.0
100	QPSK	1	1	19.26	19.35	19.21		
100	QPSK	1	137	19.25	19.34	19.20	21.0	0.0
100	QPSK	1	271	19.23	19.38	19.23		
100	QPSK	135	0	19.23	19.33	19.17		
100	QPSK	135	69	19.11	19.25	19.10	21.0	0.0
100	QPSK	135	138	19.18	19.26	19.15	21.0	0.0
100	QPSK	270	0	19.20	19.28	19.15	21.0	0.0
100	16QAM	1	1	19.19	19.31	19.20	21.0	0.0
100	16QAM	1	1	19.18	19.27	19.18	21.0	0.0
100	256QAM	1	1	19.47	19.59	19.43	19.5	1.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	19.22	19.20	19.15	21.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	19.18	19.27	19.15	21.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	19.19	19.30	19.20	21.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	19.22	19.32	19.15	21.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	19.20	19.29	19.17	21.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	19.20	19.31	19.15	21.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	19.17	19.32	19.19	21.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	19.19	19.28	19.20	21.0	0.0

### Part27Q n78\_Ant 4 DS12 Sim-Tx

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		19.85			
100	PI2 BPSK	1	137	19.76			21.0	0.0
100	PI2 BPSK	1	271	19.57				
100	PI2 BPSK	135	0	19.75			21.0	0.0
100	PI2 BPSK	135	69	19.81			21.0	0.0
100	PI2 BPSK	135	138	19.58			21.0	0.0
100	PI2 BPSK	270	0	19.70			21.0	0.0
100	QPSK	1	1	19.82				
100	QPSK	1	137	19.79			21.0	0.0
100	QPSK	1	271	19.58				
100	QPSK	135	0	19.85				
100	QPSK	135	69	19.73			21.0	0.0
100	QPSK	135	138	19.63			21.0	0.0
100	QPSK	270	0	19.72			21.0	0.0
100	16QAM	1	1	19.82			21.0	0.0
100	16QAM	1	1	19.84			21.0	0.0
100	256QAM	1	1	19.51			19.5	1.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	19.67	19.78	19.62	21.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	19.62	19.78	19.59	21.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	19.65	19.76	19.64	21.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	19.66	19.79	19.64	21.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	19.69	19.80	19.68	21.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	19.68	19.73	19.64	21.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	19.65	19.71	19.65	21.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	19.62	19.74	19.61	21.0	0.0

### Part270 n78\_Ant 4 DS12 Sim-Tx

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		19.82			
100	PI2 BPSK	1	137	19.28			21.0	0.0
100	PI2 BPSK	1	271	19.11				
100	PI2 BPSK	135	0	19.17			21.0	0.0
100	PI2 BPSK	135	69	19.21			21.0	0.0
100	PI2 BPSK	135	138	19.08			21.0	0.0
100	PI2 BPSK	270	0	19.12			21.0	0.0
100	QPSK	1	1	19.22				
100	QPSK	1	137	19.18			21.0	0.0
100	QPSK	1	271	19.08				
100	QPSK	135	0	19.24				
100	QPSK	135	69	19.14			21.0	0.0
100	QPSK	135	138	19.10			21.0	0.0
100	QPSK	270	0	19.12			21.0	0.0
100	16QAM	1	1	19.28			21.0	0.0
100	16QAM	1	1	19.30			21.0	0.0
100	256QAM	1	1	19.17			19.5	1.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	19.44	19.23	19.03	21.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	19.12	19.23	19.04	21.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	19.09	19.22	19.00	21.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	19.12	19.19	19.02	21.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	19.13	19.21	19.04	21.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	19.10	19.27	19.05	21.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	19.10	19.23	19.00	21.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	19.09	19.18	19.00	21.0	0.0



### n2\_Ant 1 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	15.83	15.94	15.71	17.0	0.0
20	PI2 BPSK	1	53	15.67	15.73	15.61	17.0	0.0
20	PI2 BPSK	1	104	15.53	15.65	15.47	17.0	0.0
20	PI2 BPSK	50	0	15.36	15.48	15.24	17.0	0.0
20	PI2 BPSK	50	28	15.68	15.81	15.57	17.0	0.0
20	PI2 BPSK	50	56	15.42	15.52	15.28	17.0	0.0
20	PI2 BPSK	100	0	15.50	15.61	15.38	17.0	0.0
20	QPSK	1	1	15.58	15.72	15.48	17.0	0.0
20	QPSK	1	53	15.40	15.51	15.28	17.0	0.0
20	QPSK	1	104	15.45	15.57	15.38	17.0	0.0
20	QPSK	50	0	15.49	15.61	15.37	17.0	0.0
20	QPSK	50	28	15.43	15.54	15.32	17.0	0.0
20	QPSK	50	56	15.38	15.51	15.30	17.0	0.0
20	QPSK	100	0	15.44	15.56	15.35	17.0	0.0
20	16QAM	1	1	15.83	15.75	15.63	17.0	0.0
20	64QAM	1	1	15.64	15.74	15.51	17.0	0.0
20	256QAM	1	1	15.82	15.72	15.48	17.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5	17.0	0.0
15	PI2 BPSK	1	1	15.72	15.84	15.63	17.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905	17.0	0.0
10	PI2 BPSK	1	1	15.70	15.79	15.61	17.0	0.0
Channel				376500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5	17.0	0.0
5	PI2 BPSK	1	1	15.68	15.79	15.61	17.0	0.0

### n2\_Ant 2 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.75	21.80	21.68	22.5	0.0
20	PI2 BPSK	1	53	21.50	21.57	21.45	22.5	0.0
20	PI2 BPSK	1	104	21.04	21.09	21.56	22.5	0.0
20	PI2 BPSK	50	0	21.51	21.59	21.47	22.5	0.0
20	PI2 BPSK	50	28	21.64	21.71	21.58	22.5	0.0
20	PI2 BPSK	50	56	21.52	21.57	21.46	22.5	0.0
20	PI2 BPSK	100	0	21.51	21.58	21.45	22.5	0.0
20	QPSK	1	1	21.68	21.74	21.83	22.5	0.0
20	QPSK	1	53	21.52	21.57	21.47	22.5	0.0
20	QPSK	1	104	21.57	21.62	21.51	22.5	0.0
20	QPSK	50	0	21.56	21.63	21.50	22.5	0.0
20	QPSK	50	28	21.49	21.56	21.43	22.5	0.0
20	QPSK	50	56	21.52	21.57	21.47	22.5	0.0
20	QPSK	100	0	21.53	21.58	21.48	22.5	0.0
20	16QAM	1	1	21.68	21.74	21.84	22.5	0.0
20	64QAM	1	1	20.33	20.55	20.41	21.5	1.0
20	256QAM	1	1	18.61	18.82	18.72	19.5	3.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5	17.0	0.0
15	PI2 BPSK	1	1	21.40	21.45	21.26	22.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905	17.0	0.0
10	PI2 BPSK	1	1	21.35	21.46	21.33	22.5	0.0
Channel				376500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5	17.0	0.0
5	PI2 BPSK	1	1	21.41	21.43	21.28	22.5	0.0

### n66\_Ant 1 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				349500	349000	350000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	16.58	16.71	16.51	17.5	0.0
40	PI2 BPSK	1	100	16.50	16.59	16.38	17.5	0.0
40	PI2 BPSK	1	214	16.41	16.48	16.28	17.5	0.0
40	PI2 BPSK	108	0	16.36	16.44	16.26	17.5	0.0
40	PI2 BPSK	108	54	16.57	16.65	16.44	17.5	0.0
40	PI2 BPSK	108	108	16.53	16.58	16.38	17.5	0.0
40	PI2 BPSK	216	0	16.45	16.55	16.35	17.5	0.0
40	QPSK	1	1	16.44	16.52	16.31	17.5	0.0
40	QPSK	1	108	16.42	16.48	16.28	17.5	0.0
40	QPSK	1	214	16.39	16.47	16.27	17.5	0.0
40	QPSK	108	0	16.48	16.56	16.36	17.5	0.0
40	QPSK	108	54	16.49	16.57	16.38	17.5	0.0
40	QPSK	108	108	16.46	16.54	16.35	17.5	0.0
40	QPSK	216	0	16.45	16.55	16.37	17.5	0.0
40	16QAM	1	1	16.59	16.68	16.50	17.5	0.0
40	64QAM	1	1	16.41	16.51	16.31	17.5	0.0
40	256QAM	1	1	16.82	16.70	16.49	17.5	0.0
Channel				349000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	17.5	0.0
30	PI2 BPSK	1	1	16.43	16.61	16.39	17.5	0.0
Channel				349500	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	17.5	0.0
20	PI2 BPSK	1	1	16.50	16.64	16.40	17.5	0.0
Channel				349500	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	17.5	0.0
15	PI2 BPSK	1	1	16.44	16.58	16.36	17.5	0.0
Channel				349000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	17.5	0.0
10	PI2 BPSK	1	1	16.47	16.64	16.44	17.5	0.0
Channel				349500	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	17.5	0.0
5	PI2 BPSK	1	1	16.50	16.60	16.42	17.5	0.0



### Part27Q\_n77\_Ant 4 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	13.09	13.09			
100	PI2 BPSK	1	137	13.64	13.64		15.0	0.0
100	PI2 BPSK	1	271	13.57	13.57			
100	PI2 BPSK	136	0	13.62	13.62		15.0	0.0
100	PI2 BPSK	136	69	13.76	13.76		15.0	0.0
100	PI2 BPSK	136	138	13.54	13.54		15.0	0.0
100	PI2 BPSK	270	0	13.61	13.61			
100	QPSK	1	1	13.74	13.74			
100	QPSK	1	137	13.81	13.81		15.0	0.0
100	QPSK	1	271	13.57	13.57			
100	QPSK	136	0	13.77	13.77			
100	QPSK	136	69	13.84	13.84		15.0	0.0
100	QPSK	136	138	13.51	13.51			
100	QPSK	270	0	13.64	13.64		15.0	0.0
100	16QAM	1	1	13.92	13.92		15.0	0.0
100	16QAM	1	1	13.76	13.76		15.0	0.0
100	256QAM	1	1	13.95	13.95		15.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	13.78	13.87	13.83	15.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	13.69	13.87	13.83	15.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	13.75	13.88	13.83	15.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	13.75	13.90	13.84	15.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	13.72	13.89	13.84	15.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	13.74	13.87	13.86	15.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	13.77	13.89	13.86	15.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	13.74	13.87	13.87	15.0	0.0

### Part27Q\_n77\_Ant 4(HPUE) DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	13.09	13.09			
100	PI2 BPSK	1	137	13.64	13.64		15.0	0.0
100	PI2 BPSK	1	271	13.57	13.57			
100	PI2 BPSK	136	0	13.62	13.62		15.0	0.0
100	PI2 BPSK	136	69	13.76	13.76		15.0	0.0
100	PI2 BPSK	136	138	13.54	13.54		15.0	0.0
100	PI2 BPSK	270	0	13.61	13.61			
100	QPSK	1	1	13.74	13.74			
100	QPSK	1	137	13.81	13.81		15.0	0.0
100	QPSK	1	271	13.57	13.57			
100	QPSK	136	0	13.77	13.77			
100	QPSK	136	69	13.84	13.84		15.0	0.0
100	QPSK	136	138	13.51	13.51			
100	QPSK	270	0	13.64	13.64		15.0	0.0
100	16QAM	1	1	13.92	13.92		15.0	0.0
100	16QAM	1	1	13.76	13.76		15.0	0.0
100	256QAM	1	1	13.95	13.95		15.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	13.78	13.87	13.83	15.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	13.69	13.87	13.83	15.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	13.75	13.88	13.83	15.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	13.75	13.90	13.84	15.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	13.72	13.89	13.84	15.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	13.74	13.87	13.86	15.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	13.77	13.89	13.86	15.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	13.74	13.87	13.87	15.0	0.0

### Part 270 n77\_Ant 4 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	13.35	13.50	13.27		
100	PI2 BPSK	1	137	13.26	13.43	13.18	15.0	0.0
100	PI2 BPSK	1	271	13.21	13.37	13.17		
100	PI2 BPSK	136	0	13.12	13.28	13.03	15.0	0.0
100	PI2 BPSK	136	69	13.22	13.38	13.16	15.0	0.0
100	PI2 BPSK	136	138	13.11	13.28	13.08	15.0	0.0
100	PI2 BPSK	270	0	13.08	13.25	13.02		
100	QPSK	1	1	13.20	13.36	13.16		
100	QPSK	1	137	13.15	13.31	13.10	15.0	0.0
100	QPSK	1	271	13.28	13.41	13.16		
100	QPSK	136	0	13.21	13.35	13.11		
100	QPSK	136	69	13.13	13.28	13.08	15.0	0.0
100	QPSK	136	138	13.06	13.23	13.00		
100	QPSK	270	0	13.34	13.48	13.28	15.0	0.0
100	16QAM	1	1	13.21	13.37	13.17	15.0	0.0
100	16QAM	1	1	13.23	13.40	13.15	15.0	0.0
100	256QAM	1	1	13.35	13.49	13.24	15.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	13.27	13.37	13.12	15.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	13.28	13.36	13.13	15.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	13.25	13.39	13.18	15.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	13.27	13.35	13.16	15.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	13.22	13.33	13.20	15.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	13.21	13.30	13.16	15.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	13.25	13.38	13.16	15.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	13.21	13.43	13.19	15.0	0.0



Part 270 n77\_Ant 4(HPUe) DS13

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch. / Freq., Power Middle Ch. / Freq., Power High Ch. / Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation schemes like PI2 BPSK, QPSK, 16QAM, and 256QAM across different channel frequencies.

Part27Q n78\_Ant 4 DS13

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch. / Freq., Power Middle Ch. / Freq., Power High Ch. / Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation schemes like PI2 BPSK, QPSK, 16QAM, and 256QAM across different channel frequencies.

Part270 n78\_Ant 4 DS13

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch. / Freq., Power Middle Ch. / Freq., Power High Ch. / Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation schemes like PI2 BPSK, QPSK, 16QAM, and 256QAM across different channel frequencies.





**Part270 n78\_Ant 5 DSI3**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	13.05				
100	PI2 BPSK	1	137	12.97			14.0	0.0
100	PI2 BPSK	1	271	12.95				
100	PI2 BPSK	135	0	12.98			14.0	0.0
100	PI2 BPSK	135	69	12.99			14.0	0.0
100	PI2 BPSK	135	138	12.78				
100	PI2 BPSK	270	0	12.97			14.0	0.0
100	QPSK	1	1	12.98				
100	QPSK	1	137	12.88			14.0	0.0
100	QPSK	1	271	12.99				
100	QPSK	135	0	12.89				
100	QPSK	135	69	12.95			14.0	0.0
100	QPSK	135	138	12.81				
100	QPSK	270	0	12.87			14.0	0.0
100	16QAM	1	1	12.99			14.0	0.0
100	16QAM	1	1	12.99			14.0	0.0
100	256QAM	1	1	13.04			14.0	0.0
Channel				648668	650000	650332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3754.98		
90	PI2 BPSK	1	1	12.85	12.93	12.93	14.0	0.0
Channel				649304	650000	650660	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3759.99		
80	PI2 BPSK	1	1	12.89	12.88	12.96	14.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	PI2 BPSK	1	1	12.89	13.01	12.99	14.0	0.0
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3769.98		
80	PI2 BPSK	1	1	12.84	12.94	12.98	14.0	0.0
Channel				648304	650000	651660	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3774.99		
60	PI2 BPSK	1	1	12.90	12.97	12.96	14.0	0.0
Channel				649000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	PI2 BPSK	1	1	12.88	12.95	13.01	14.0	0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3784.98		
30	PI2 BPSK	1	1	12.83	12.95	13.01	14.0	0.0
Channel				647304	650000	653660	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3789.99		
20	PI2 BPSK	1	1	12.90	13.01	12.98	14.0	0.0







### Part270 n78\_Ant 6 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	9.98				
100	PI2 BPSK	1	137	9.84			11.0	0.0
100	PI2 BPSK	1	271	9.84				
100	PI2 BPSK	135	0	9.85			11.0	0.0
100	PI2 BPSK	135	69	9.94			11.0	0.0
100	PI2 BPSK	135	138	9.74				
100	PI2 BPSK	270	0	9.84			11.0	0.0
100	QPSK	1	1	9.85				
100	QPSK	1	137	9.84			11.0	0.0
100	QPSK	1	271	9.83				
100	QPSK	135	0	9.81				
100	QPSK	135	69	9.83			11.0	0.0
100	QPSK	135	138	9.71				
100	QPSK	270	0	9.80			11.0	0.0
100	16QAM	1	1	9.84			11.0	0.0
100	16QAM	1	1	9.70			11.0	0.0
100	256QAM	1	1	9.80			11.0	0.0
Channel				648668	650000	650332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3754.98		
90	PI2 BPSK	1	1	9.88	9.89	9.77	11.0	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3759.99		
80	PI2 BPSK	1	1	9.86	9.88	9.74	11.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	PI2 BPSK	1	1	9.88	9.89	9.78	11.0	0.0
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3769.98		
80	PI2 BPSK	1	1	9.88	9.91	9.77	11.0	0.0
Channel				649334	650000	651666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3774.99		
50	PI2 BPSK	1	1	9.85	9.91	9.78	11.0	0.0
Channel				649000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	PI2 BPSK	1	1	9.89	9.97	9.78	11.0	0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3784.98		
30	PI2 BPSK	1	1	9.88	9.91	9.74	11.0	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3789.99		
20	PI2 BPSK	1	1	9.87	9.87	9.77	11.0	0.0



### n2\_Ant 1 DS13 Sim-Tx

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				370000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	15.54	15.65	15.46		
20	PI2 BPSK	1	53	15.36	15.42	15.28	16.5	0.0
20	PI2 BPSK	1	104	15.26	15.32	15.19	16.5	0.0
20	PI2 BPSK	50	0	15.20	15.29	15.15	16.5	0.0
20	PI2 BPSK	50	28	15.36	15.41	15.29	16.5	0.0
20	PI2 BPSK	50	56	15.31	15.38	15.28	16.5	0.0
20	PI2 BPSK	100	0	15.25	15.32	15.21	16.5	0.0
20	QPSK	1	1	15.47	15.52	15.34		
20	QPSK	1	53	15.16	15.28	15.10	16.5	0.0
20	QPSK	1	104	15.29	15.36	15.23	16.5	0.0
20	QPSK	50	0	15.36	15.41	15.31	16.5	0.0
20	QPSK	50	28	15.21	15.28	15.14	16.5	0.0
20	QPSK	50	56	15.16	15.28	15.10	16.5	0.0
20	QPSK	100	0	15.28	15.34	15.17	16.5	0.0
20	16QAM	1	1	15.48	15.56	15.44	16.5	0.0
20	64QAM	1	1	15.44	15.51	15.38	16.5	0.0
20	256QAM	1	1	15.54	15.60	15.48	16.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	PI2 BPSK	1	1	15.41	15.51	15.42	16.5	0.0
Channel				373000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	PI2 BPSK	1	1	15.41	15.54	15.43	16.5	0.0
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5		
5	PI2 BPSK	1	1	15.39	15.62	15.40	16.5	0.0

### n2\_Ant 2 DS13 Sim-Tx

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	19.09	19.29	19.18		
20	PI2 BPSK	1	53	18.97	19.04	19.01	20.0	0.0
20	PI2 BPSK	1	104	18.96	19.10	19.08	20.0	0.0
20	PI2 BPSK	50	0	18.88	18.99	18.94	20.0	0.0
20	PI2 BPSK	50	28	19.00	19.25	19.06	20.0	0.0
20	PI2 BPSK	50	56	18.89	19.02	18.98	20.0	0.0
20	PI2 BPSK	100	0	18.93	19.10	18.96	20.0	0.0
20	QPSK	1	1	19.08	19.15	19.14		
20	QPSK	1	53	18.85	18.99	18.84	20.0	0.0
20	QPSK	1	104	18.97	19.04	19.03	20.0	0.0
20	QPSK	50	0	19.00	19.09	19.05	20.0	0.0
20	QPSK	50	28	18.93	19.06	18.91	20.0	0.0
20	QPSK	50	56	18.87	19.00	18.98	20.0	0.0
20	QPSK	100	0	18.91	19.02	18.91	20.0	0.0
20	16QAM	1	1	19.02	19.15	19.10	20.0	0.0
20	64QAM	1	1	18.99	19.17	19.12	20.0	0.0
20	256QAM	1	1	18.91	19.22	19.15	20.0	0.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	PI2 BPSK	1	1	18.98	19.08	19.06	20.0	0.0
Channel				373000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	PI2 BPSK	1	1	19.02	19.04	19.07	20.0	0.0
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5		
5	PI2 BPSK	1	1	18.98	19.00	19.07	20.0	0.0

### n5\_Ant 2 DS13 Sim-Tx

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				166500	167300	167900		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	21.94	22.02	21.88		
20	PI2 BPSK	1	53	21.82	21.86	21.75	23.0	0.0
20	PI2 BPSK	1	104	21.64	21.70	21.57	23.0	0.0
20	PI2 BPSK	50	0	21.74	21.82	21.69	23.0	0.0
20	PI2 BPSK	50	28	21.82	22.00	21.74	23.0	0.0
20	PI2 BPSK	50	56	21.63	21.71	21.64	23.0	0.0
20	PI2 BPSK	100	0	21.80	21.94	21.74	23.0	0.0
20	QPSK	1	1	21.90	21.94	21.82		
20	QPSK	1	53	21.73	21.79	21.69	23.0	0.0
20	QPSK	1	104	21.54	21.61	21.48	23.0	0.0
20	QPSK	50	0	21.61	21.88	21.74	23.0	0.0
20	QPSK	50	28	21.75	21.81	21.72	23.0	0.0
20	QPSK	50	56	21.64	21.72	21.60	23.0	0.0
20	QPSK	100	0	21.74	21.81	21.70	23.0	0.0
20	16QAM	1	1	21.88	21.93	21.83	23.0	0.0
20	64QAM	1	1	20.91	20.94	20.88	22.0	1.0
20	256QAM	1	1	19.28	19.33	19.20	20.0	3.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	PI2 BPSK	1	1	21.82	21.85	21.78	23.0	0.0
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	PI2 BPSK	1	1	21.79	21.91	21.74	23.0	0.0
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	PI2 BPSK	1	1	21.80	21.84	21.81	23.0	0.0



n66_Ant 1 DSI3 Sim-Tx							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	15.08	15.17	15.01	
40	PI2 BPSK	1	108	14.97	15.07	14.91	
40	PI2 BPSK	1	214	15.05	15.12	14.95	
40	PI2 BPSK	108	0	14.94	15.05	14.90	16.0
40	PI2 BPSK	108	54	15.01	15.15	14.96	16.0
40	PI2 BPSK	108	108	14.99	15.07	14.92	16.0
40	PI2 BPSK	216	0	15.07	15.14	14.98	16.0
40	QPSK	1	1	15.06	15.16	15.03	
40	QPSK	1	108	14.93	15.02	14.88	16.0
40	QPSK	1	214	14.91	15.00	14.86	
40	QPSK	108	0	14.92	15.03	14.90	16.0
40	QPSK	108	54	15.07	15.15	15.03	16.0
40	QPSK	108	108	15.02	15.11	14.99	16.0
40	QPSK	216	0	15.04	15.14	14.98	16.0
40	16QAM	1	1	14.85	14.90	14.82	16.0
40	8QAM	1	1	14.52	15.01	14.88	16.0
40	256QAM	1	1	14.88	14.95	14.81	16.0
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	PI2 BPSK	1	1	14.99	15.05	14.93	16.0
Channel				345000	349000	353000	
Frequency (MHz)				1720	1745	1770	
20	PI2 BPSK	1	1	14.98	15.06	14.91	16.0
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	PI2 BPSK	1	1	14.93	15.05	14.88	16.0
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	PI2 BPSK	1	1	14.93	15.06	14.87	16.0
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	PI2 BPSK	1	1	15.00	15.08	14.90	16.0

n66_Ant 2 DSI3 Sim-Tx							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	21.61	21.74	21.59	
40	PI2 BPSK	1	108	21.59	21.71	21.57	
40	PI2 BPSK	1	214	21.57	21.70	21.56	
40	PI2 BPSK	108	0	21.41	21.58	21.40	22.5
40	PI2 BPSK	108	54	21.53	21.68	21.50	22.5
40	PI2 BPSK	108	108	21.39	21.52	21.38	22.5
40	PI2 BPSK	216	0	21.49	21.66	21.45	22.5
40	QPSK	1	1	21.58	21.70	21.54	
40	QPSK	1	108	21.47	21.61	21.45	22.5
40	QPSK	1	214	21.43	21.59	21.44	
40	QPSK	108	0	21.44	21.58	21.43	22.5
40	QPSK	108	54	21.53	21.66	21.51	22.5
40	QPSK	108	108	21.57	21.71	21.57	22.5
40	QPSK	216	0	21.46	21.61	21.45	22.5
40	16QAM	1	1	21.52	21.63	21.49	22.5
40	8QAM	1	1	20.52	20.54	20.49	21.5
40	256QAM	1	1	18.87	18.65	18.50	19.5
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	PI2 BPSK	1	1	21.53	21.67	21.46	22.5
Channel				345000	349000	353000	
Frequency (MHz)				1720	1745	1770	
20	PI2 BPSK	1	1	21.47	21.64	21.45	22.5
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	PI2 BPSK	1	1	21.51	21.61	21.50	22.5
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	PI2 BPSK	1	1	21.52	21.59	21.49	22.5
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	PI2 BPSK	1	1	21.49	21.60	21.45	22.5



### Part27Q\_n77\_Ant 4 DS13 Sim-Tx

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3500.01	3500.01			
100	PI2 BPSK	1	137	10.69				
100	PI2 BPSK	1	271	10.67			12.0	0.0
100	PI2 BPSK	1	271	10.52				
100	PI2 BPSK	136	0	10.61			12.0	0.0
100	PI2 BPSK	136	69	10.74			12.0	0.0
100	PI2 BPSK	136	138	10.55			12.0	0.0
100	PI2 BPSK	270	0	10.64			12.0	0.0
100	QPSK	1	1	10.79				
100	QPSK	1	137	10.58			12.0	0.0
100	QPSK	1	271	10.52				
100	QPSK	136	0	10.74				
100	QPSK	136	69	10.72			12.0	0.0
100	QPSK	136	138	10.52				
100	QPSK	270	0	10.65			12.0	0.0
100	16QAM	1	1	10.87			12.0	0.0
100	16QAM	1	1	10.80			12.0	0.0
100	256QAM	1	1	10.85			12.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3485	3500.01	3504.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	10.53	10.74	10.58	12.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3485.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	10.69	10.72	10.55	12.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	10.58	10.73	10.62	12.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3500.01	3529.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	10.67	10.70	10.57	12.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	10.87	10.74	10.54	12.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	10.88	10.72	10.56	12.0	0.0

### Part27Q\_n77\_Ant 4(HPUE) DS13 Sim-Tx

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3500.01	3500.01			
100	PI2 BPSK	1	137	10.67				
100	PI2 BPSK	1	271	10.52			12.0	0.0
100	PI2 BPSK	1	271	10.61				
100	PI2 BPSK	136	0	10.74			12.0	0.0
100	PI2 BPSK	136	69	10.55			12.0	0.0
100	PI2 BPSK	136	138	10.64			12.0	0.0
100	QPSK	1	1	10.79				
100	QPSK	1	137	10.58			12.0	0.0
100	QPSK	1	271	10.52				
100	QPSK	136	0	10.74				
100	QPSK	136	69	10.72			12.0	0.0
100	QPSK	136	138	10.52				
100	QPSK	270	0	10.65			12.0	0.0
100	16QAM	1	1	10.87			12.0	0.0
100	16QAM	1	1	10.80			12.0	0.0
100	256QAM	1	1	10.85			12.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3485	3500.01	3504.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	10.53	10.74	10.58	12.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3485.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	10.69	10.72	10.55	12.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	10.58	10.73	10.62	12.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3500.01	3529.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	10.67	10.70	10.57	12.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	10.87	10.74	10.54	12.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	10.88	10.72	10.56	12.0	0.0

### Part 270 n77\_Ant 4 DS13 Sim-Tx

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3700	3840	3930		
100	PI2 BPSK	1	137	10.40	10.55	10.38		
100	PI2 BPSK	1	271	10.19	10.29	10.12	12.0	0.0
100	PI2 BPSK	1	271	10.34	10.44	10.28		
100	PI2 BPSK	136	0	10.21	10.28	10.12	12.0	0.0
100	PI2 BPSK	136	69	10.22	10.30	10.19	12.0	0.0
100	PI2 BPSK	136	138	10.13	10.21	10.06	12.0	0.0
100	PI2 BPSK	270	0	10.16	10.24	10.06		
100	QPSK	1	1	10.22	10.31	10.14		
100	QPSK	1	137	10.18	10.27	10.08	12.0	0.0
100	QPSK	1	271	10.28	10.46	10.31		
100	QPSK	136	0	10.19	10.28	10.11		
100	QPSK	136	69	10.14	10.23	10.05		
100	QPSK	136	138	10.13	10.21	10.06	12.0	0.0
100	QPSK	270	0	10.17	10.25	10.06		
100	16QAM	1	1	10.37	10.45	10.27	12.0	0.0
100	16QAM	1	1	10.19	10.29	10.13	12.0	0.0
100	256QAM	1	1	10.38	10.48	10.31	12.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3745.02	3840	3934.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	10.31	10.41	10.30	12.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3745.01	3840	3939.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	10.38	10.41	10.25	12.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	10.38	10.45	10.27	12.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	648334	650000	653332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	10.33	10.43	10.25	12.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	10.38	10.40	10.26	12.0	0.0

**Part 270 n77\_Ant 4(HPUe) DS13 Sim-Tx**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	10.40	10.30	10.39		
100	PI2 BPSK	1	137	10.19	10.29	10.12	12.0	0.0
100	PI2 BPSK	1	271	10.34	10.44	10.28		
100	PI2 BPSK	135	0	10.21	10.28	10.12	12.0	0.0
100	PI2 BPSK	135	69	10.22	10.30	10.19	12.0	0.0
100	PI2 BPSK	135	138	10.19	10.21	10.06	12.0	0.0
100	PI2 BPSK	270	0	10.16	10.24	10.06		
100	QPSK	1	1	10.22	10.31	10.14		
100	QPSK	1	137	10.18	10.27	10.06	12.0	0.0
100	QPSK	1	271	10.35	10.48	10.31		
100	QPSK	135	0	10.19	10.28	10.11		
100	QPSK	135	69	10.14	10.23	10.06		
100	QPSK	135	138	10.13	10.21	10.05	12.0	0.0
100	QPSK	270	0	10.17	10.25	10.06	12.0	0.0
100	16QAM	1	1	10.37	10.45	10.27	12.0	0.0
100	64QAM	1	1	10.16	10.29	10.13	12.0	0.0
100	256QAM	1	1	10.39	10.48	10.31	12.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	10.31	10.41	10.30	12.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	10.32	10.47	10.31	12.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	10.38	10.41	10.25	12.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	10.36	10.45	10.27	12.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	10.31	10.45	10.25	12.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	10.39	10.49	10.30	12.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	10.33	10.43	10.25	12.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	10.38	10.40	10.26	12.0	0.0

**Part27Q n78\_Ant 4 DS13 Sim-Tx**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	10.27				
100	PI2 BPSK	1	137	10.65			12.0	0.0
100	PI2 BPSK	1	271	10.49				
100	PI2 BPSK	135	0	10.54			12.0	0.0
100	PI2 BPSK	135	69	10.68			12.0	0.0
100	PI2 BPSK	135	138	10.45			12.0	0.0
100	PI2 BPSK	270	0	10.56				
100	QPSK	1	1	10.70				
100	QPSK	1	137	10.61			12.0	0.0
100	QPSK	1	271	10.45				
100	QPSK	135	0	10.68				
100	QPSK	135	69	10.29			12.0	0.0
100	QPSK	135	138	10.48				
100	QPSK	270	0	10.59			12.0	0.0
100	16QAM	1	1	10.76			12.0	0.0
100	64QAM	1	1	10.70			12.0	0.0
100	256QAM	1	1	10.61			12.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	10.57	10.62	10.48	12.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	10.52	10.65	10.51	12.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	10.55	10.66	10.48	12.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	10.50	10.69	10.48	12.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	10.52	10.65	10.52	12.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	10.54	10.60	10.48	12.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	10.56	10.64	10.45	12.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	10.57	10.70	10.47	12.0	0.0

**Part270 n78\_Ant 4 DS13 Sim-Tx**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	10.84				
100	PI2 BPSK	1	137	10.40			12.0	0.0
100	PI2 BPSK	1	271	10.35				
100	PI2 BPSK	135	0	10.41			12.0	0.0
100	PI2 BPSK	135	69	10.65			12.0	0.0
100	PI2 BPSK	135	138	10.28			12.0	0.0
100	PI2 BPSK	270	0	10.41				
100	QPSK	1	1	10.47				
100	QPSK	1	137	10.41			12.0	0.0
100	QPSK	1	271	10.38				
100	QPSK	135	0	10.45				
100	QPSK	135	69	10.38			12.0	0.0
100	QPSK	135	138	10.27				
100	QPSK	270	0	10.42			12.0	0.0
100	16QAM	1	1	10.53			12.0	0.0
100	64QAM	1	1	10.51			12.0	0.0
100	256QAM	1	1	10.38			12.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	10.18	10.50	10.33	12.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	10.23	10.46	10.18	12.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	10.24	10.46	10.18	12.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	10.20	10.52	10.16	12.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	10.23	10.52	10.14	12.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	10.22	10.49	10.21	12.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	10.24	10.44	10.20	12.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	10.24	10.47	10.15	12.0	0.0





### Part270 n78\_Ant 5 DSI3 Sim-Tx

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	9.65				
100	PI2 BPSK	1	137	9.52			10.5	0.0
100	PI2 BPSK	1	271	9.65				
100	PI2 BPSK	135	0	9.58			10.5	0.0
100	PI2 BPSK	135	69	9.60			10.5	0.0
100	PI2 BPSK	135	138	9.37			10.5	0.0
100	PI2 BPSK	270	0	9.52				
100	QPSK	1	1	9.61				
100	QPSK	1	137	9.52			10.5	0.0
100	QPSK	1	271	9.59				
100	QPSK	135	0	9.45				
100	QPSK	135	69	9.52			10.5	0.0
100	QPSK	135	138	9.37				
100	QPSK	270	0	9.46			10.5	0.0
100	16QAM	1	1	9.58			10.5	0.0
100	16QAM	1	1	9.61			10.5	0.0
100	256QAM	1	1	9.64			10.5	0.0
Channel				648668	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)
90	PI2 BPSK	1	1	9.33	9.52	9.47	10.5	0.0
Channel				649334	650000	650666	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)
80	PI2 BPSK	1	1	9.31	9.53	9.47	10.5	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	PI2 BPSK	1	1	9.33	9.48	9.43	10.5	0.0
Channel				648668	650000	651332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)
60	PI2 BPSK	1	1	9.32	9.53	9.43	10.5	0.0
Channel				648334	650000	651666	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)
50	PI2 BPSK	1	1	9.39	9.49	9.44	10.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	PI2 BPSK	1	1	9.35	9.49	9.50	10.5	0.0
Channel				647668	650000	652332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)
30	PI2 BPSK	1	1	9.31	9.54	9.43	10.5	0.0
Channel				647334	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)
20	PI2 BPSK	1	1	9.34	9.47	9.48	10.5	0.0







### Part270 n78\_Ant 6 DSI3 Sim-Tx

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	6.89			8.0	0.0
100	PI2 BPSK	1	137	6.71				
100	PI2 BPSK	1	271	6.72			8.0	0.0
100	PI2 BPSK	135	0	6.77				
100	PI2 BPSK	135	69	6.82			8.0	0.0
100	PI2 BPSK	135	138	6.64				
100	PI2 BPSK	270	0	6.72			8.0	0.0
100	QPSK	1	1	6.74				
100	QPSK	1	137	6.71			8.0	0.0
100	QPSK	1	271	6.73				
100	QPSK	135	0	6.70				
100	QPSK	135	69	6.74			8.0	0.0
100	QPSK	135	138	6.60				
100	QPSK	270	0	6.71			8.0	0.0
100	16QAM	1	1	6.77			8.0	0.0
100	16QAM	1	1	6.61			8.0	0.0
100	256QAM	1	1	6.67			8.0	0.0
Channel				648668	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)
90	PI2 BPSK	1	1	6.67	6.67	6.71	8.0	0.0
Channel				649334	650000	650666	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)
80	PI2 BPSK	1	1	6.72	6.72	6.67	8.0	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	PI2 BPSK	1	1	6.71	6.68	6.71	8.0	0.0
Channel				648668	650000	651332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)
60	PI2 BPSK	1	1	6.72	6.67	6.63	8.0	0.0
Channel				649334	650000	651666	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)
50	PI2 BPSK	1	1	6.64	6.67	6.69	8.0	0.0
Channel				649000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	PI2 BPSK	1	1	6.71	6.71	6.70	8.0	0.0
Channel				647668	650000	652332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)
30	PI2 BPSK	1	1	6.64	6.67	6.66	8.0	0.0
Channel				649334	650000	652666	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)
20	PI2 BPSK	1	1	6.67	6.72	6.63	8.0	0.0





### Part270 n78\_Ant 10 DSI3 Sim-Tx

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	13.33			14.0	0.0
100	PI2 BPSK	1	137	12.97				
100	PI2 BPSK	1	271	12.71				
100	PI2 BPSK	135	0	13.02			14.0	0.0
100	PI2 BPSK	135	69	13.05			14.0	0.0
100	PI2 BPSK	135	138	12.83			14.0	0.0
100	PI2 BPSK	270	0	12.84				
100	QPSK	1	1	13.24				
100	QPSK	1	137	12.84			14.0	0.0
100	QPSK	1	271	12.83				
100	QPSK	135	0	13.03			14.0	0.0
100	QPSK	135	69	12.73				
100	QPSK	135	138	12.87				
100	QPSK	270	0	12.83			14.0	0.0
100	16QAM	1	1	12.80			14.0	0.0
100	16QAM	1	1	13.27			14.0	0.0
100	256QAM	1	1	12.75			13.5	0.5
Channel				648668	650000	650332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3754.98		
90	PI2 BPSK	1	1	13.21	13.21	13.17	14.0	0.0
Channel				648334	650000	650332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3759.99		
80	PI2 BPSK	1	1	13.21	13.23	13.15	14.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	PI2 BPSK	1	1	13.17	13.20	13.18	14.0	0.0
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3769.98		
60	PI2 BPSK	1	1	13.21	13.18	13.20	14.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3774.99		
50	PI2 BPSK	1	1	13.14	13.24	13.11	14.0	0.0
Channel				649000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	PI2 BPSK	1	1	13.13	13.23	13.19	14.0	0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3784.98		
30	PI2 BPSK	1	1	13.14	13.19	13.20	14.0	0.0
Channel				647334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3789.99		
20	PI2 BPSK	1	1	13.21	13.22	13.15	14.0	0.0



### n2\_Ant 1 DS16

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	19.43	19.54	19.36		
20	PI2 BPSK	1	53	19.28	19.36	19.18		0.0
20	PI2 BPSK	1	104	19.19	19.29	19.09		20.5
20	PI2 BPSK	50	0	19.28	19.34	19.19		20.5
20	PI2 BPSK	50	28	19.24	19.39	19.15		20.5
20	PI2 BPSK	50	56	19.16	19.27	19.07		20.5
20	PI2 BPSK	100	0	19.28	19.36	19.20		20.5
20	QPSK	1	1	19.38	19.50	19.32		20.5
20	QPSK	1	53	19.11	19.22	19.02		20.5
20	QPSK	1	104	19.31	19.41	19.21		20.5
20	QPSK	50	0	19.22	19.34	19.17		20.5
20	QPSK	50	28	19.29	19.39	19.21		20.5
20	QPSK	50	56	19.26	19.38	19.19		20.5
20	QPSK	100	0	19.25	19.36	19.19		20.5
20	16QAM	1	1	19.29	19.40	19.20		20.5
20	64QAM	1	1	19.33	19.45	19.26		20.5
20	256QAM	1	1	19.53	19.69	19.44		19.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	PI2 BPSK	1	1	19.33	19.40	19.29		20.5
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	PI2 BPSK	1	1	19.31	19.45	19.26		20.5
Channel				376500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1872.5	1880	1907.5		
5	PI2 BPSK	1	1	19.31	19.45	19.24		20.5

### n2\_Ant 2 DS16

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.15	22.33	22.08		
20	PI2 BPSK	1	53	21.93	22.10	21.88		23.0
20	PI2 BPSK	1	104	21.87	21.98	21.82		23.0
20	PI2 BPSK	50	0	21.75	21.92	21.68		23.0
20	PI2 BPSK	50	28	21.96	22.30	21.89		23.0
20	PI2 BPSK	50	56	21.81	21.97	21.75		23.0
20	PI2 BPSK	100	0	21.96	22.14	21.81		23.0
20	QPSK	1	1	22.10	22.25	22.01		23.0
20	QPSK	1	53	21.84	22.02	21.80		23.0
20	QPSK	1	104	21.82	21.99	21.75		23.0
20	QPSK	50	0	21.86	22.01	21.79		23.0
20	QPSK	50	28	21.86	22.03	21.79		23.0
20	QPSK	50	56	21.78	21.94	21.70		23.0
20	QPSK	100	0	21.78	21.96	21.74		23.0
20	16QAM	1	1	21.94	22.12	21.90		23.0
20	64QAM	1	1	20.33	20.55	20.41		21.5
20	256QAM	1	1	18.61	18.82	18.72		19.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	PI2 BPSK	1	1	21.98	22.17	21.93		23.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	PI2 BPSK	1	1	21.99	22.15	21.96		23.0
Channel				376500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1872.5	1880	1907.5		
5	PI2 BPSK	1	1	22.02	22.18	21.92		23.0

### n66\_Ant 1 DS16

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	19.91	20.06	19.78		
40	PI2 BPSK	1	108	19.88	20.04	19.76		21.0
40	PI2 BPSK	1	214	19.90	20.05	19.77		21.0
40	PI2 BPSK	108	0	19.99	19.92	19.54		21.0
40	PI2 BPSK	108	54	19.76	19.91	19.63		21.0
40	PI2 BPSK	108	108	19.73	19.88	19.58		21.0
40	PI2 BPSK	216	0	19.72	19.98	19.60		21.0
40	QPSK	1	1	19.89	19.95	19.71		21.0
40	QPSK	1	108	19.73	19.87	19.60		21.0
40	QPSK	1	214	19.70	19.84	19.57		21.0
40	QPSK	108	0	19.62	19.77	19.49		21.0
40	QPSK	108	54	19.74	19.88	19.58		21.0
40	QPSK	108	108	19.73	19.88	19.58		21.0
40	QPSK	216	0	19.71	19.87	19.58		21.0
40	16QAM	1	1	19.84	20.00	19.70		21.0
40	64QAM	1	1	19.89	19.94	19.55		21.0
40	256QAM	1	1	18.65	18.85	18.50		19.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	PI2 BPSK	1	1	19.61	19.91	19.66		21.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI2 BPSK	1	1	19.77	19.93	19.67		21.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1772.5		
15	PI2 BPSK	1	1	19.79	19.91	19.63		21.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI2 BPSK	1	1	19.63	19.98	19.71		21.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1772.5		
5	PI2 BPSK	1	1	19.77	19.94	19.69		21.0



### Part27Q\_n77\_Ant 4 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	16.40	16.35	16.30	17.5	0.0
100	Pi2 BPSK	1	137	16.35	16.23	16.12	17.5	0.0
100	Pi2 BPSK	1	271	16.23	16.22	16.12	17.5	0.0
100	Pi2 BPSK	135	69	16.33	16.12	16.02	17.5	0.0
100	Pi2 BPSK	135	138	16.12	16.25	16.12	17.5	0.0
100	Pi2 BPSK	270	0	16.25	16.37	16.37	17.5	0.0
100	QPSK	1	1	16.37	16.24	16.11	17.5	0.0
100	QPSK	1	137	16.24	16.37	16.37	17.5	0.0
100	QPSK	1	271	16.11	16.26	16.15	17.5	0.0
100	QPSK	135	69	16.37	16.26	16.15	17.5	0.0
100	QPSK	135	138	16.26	16.37	16.37	17.5	0.0
100	QPSK	135	138	16.15	16.25	16.25	17.5	0.0
100	QPSK	270	0	16.25	16.32	16.32	17.5	0.0
100	16QAM	1	1	16.32	16.31	16.31	17.5	0.0
100	16QAM	1	1	16.31	16.38	16.38	17.5	0.0
100	256QAM	1	1	16.38	16.38	16.38	17.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	16.21	16.24	16.10	17.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	16.18	16.29	16.08	17.5	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	16.19	16.33	16.05	17.5	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	16.15	16.32	16.06	17.5	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	16.14	16.32	16.05	17.5	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	16.15	16.32	16.04	17.5	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	16.18	16.28	16.07	17.5	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	16.19	16.27	16.11	17.5	0.0

### Part27Q\_n77\_Ant 4(HPUE) DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	16.40	16.35	16.30	17.5	0.0
100	Pi2 BPSK	1	137	16.35	16.23	16.12	17.5	0.0
100	Pi2 BPSK	1	271	16.23	16.22	16.12	17.5	0.0
100	Pi2 BPSK	135	69	16.33	16.12	16.02	17.5	0.0
100	Pi2 BPSK	135	138	16.12	16.25	16.12	17.5	0.0
100	Pi2 BPSK	270	0	16.25	16.37	16.37	17.5	0.0
100	QPSK	1	1	16.37	16.24	16.11	17.5	0.0
100	QPSK	1	137	16.24	16.37	16.37	17.5	0.0
100	QPSK	1	271	16.11	16.26	16.15	17.5	0.0
100	QPSK	135	69	16.37	16.26	16.15	17.5	0.0
100	QPSK	135	138	16.26	16.37	16.37	17.5	0.0
100	QPSK	135	138	16.15	16.25	16.25	17.5	0.0
100	QPSK	270	0	16.25	16.32	16.32	17.5	0.0
100	16QAM	1	1	16.32	16.31	16.31	17.5	0.0
100	16QAM	1	1	16.31	16.38	16.38	17.5	0.0
100	256QAM	1	1	16.38	16.38	16.38	17.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	16.21	16.24	16.10	17.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	16.18	16.29	16.08	17.5	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	16.19	16.33	16.05	17.5	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	16.15	16.32	16.06	17.5	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	16.14	16.32	16.05	17.5	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	16.15	16.32	16.04	17.5	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	16.18	16.28	16.07	17.5	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	16.19	16.27	16.11	17.5	0.0

### Part 270 n77\_Ant 4 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	15.83	15.93	15.74	17.5	0.0
100	Pi2 BPSK	1	137	15.91	15.76	15.62	17.5	0.0
100	Pi2 BPSK	1	271	15.63	15.77	15.62	17.5	0.0
100	Pi2 BPSK	135	69	15.59	15.74	15.50	17.5	0.0
100	Pi2 BPSK	135	138	15.73	15.63	15.62	17.5	0.0
100	Pi2 BPSK	135	138	15.61	15.69	15.54	17.5	0.0
100	Pi2 BPSK	270	0	15.59	15.73	15.51	17.5	0.0
100	QPSK	1	1	15.83	15.89	15.73	17.5	0.0
100	QPSK	1	137	15.95	15.90	15.66	17.5	0.0
100	QPSK	1	271	15.68	15.82	15.58	17.5	0.0
100	QPSK	135	69	15.84	15.78	15.52	17.5	0.0
100	QPSK	135	138	15.71	15.67	15.62	17.5	0.0
100	QPSK	135	138	15.67	15.71	15.52	17.5	0.0
100	QPSK	270	0	15.57	15.73	15.50	17.5	0.0
100	16QAM	1	1	15.76	15.92	15.67	17.5	0.0
100	16QAM	1	1	15.65	15.61	15.57	17.5	0.0
100	256QAM	1	1	15.72	15.86	15.61	17.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	15.74	15.86	15.58	17.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	15.77	15.83	15.58	17.5	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	15.71	15.92	15.62	17.5	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	15.73	15.84	15.58	17.5	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	15.75	15.85	15.57	17.5	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	15.78	15.90	15.59	17.5	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	15.77	15.84	15.59	17.5	0.0



**Part 270 n77\_Ant 4(HPUe) DS16**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.83	15.88	15.74		
100	PI2 BPSK	1	137	15.61	15.76	15.52	17.5	0.0
100	PI2 BPSK	1	271	15.63	15.77	15.62		
100	PI2 BPSK	135	0	15.59	15.74	15.50	17.5	0.0
100	PI2 BPSK	135	69	15.73	15.88	15.65	17.5	0.0
100	PI2 BPSK	135	138	15.61	15.69	15.84		
100	PI2 BPSK	270	0	15.59	15.76	15.51	17.5	0.0
100	QPSK	1	1	15.83	15.88	15.73		
100	QPSK	1	137	15.65	15.80	15.56	17.5	0.0
100	QPSK	1	271	15.65	15.82	15.58		
100	QPSK	135	0	15.84	15.78	15.52		
100	QPSK	135	69	15.71	15.87	15.62	17.5	0.0
100	QPSK	135	138	15.67	15.71	15.52		
100	QPSK	270	0	15.57	15.73	15.50	17.5	0.0
100	16QAM	1	1	15.76	15.92	15.67	17.5	0.0
100	64QAM	1	1	15.65	15.81	15.57	17.5	0.0
100	256QAM	1	1	15.72	15.88	15.61	17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.74	15.88	15.58	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.77	15.83	15.58	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	15.71	15.92	15.62	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	15.73	15.84	15.58	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	15.72	15.88	15.57	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.72	15.84	15.59	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	15.73	15.84	15.58	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	15.77	15.84	15.59	17.5	0.0

**Part27Q n78\_Ant 4 DS16**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.29	16.39	16.30		
100	PI2 BPSK	1	137	16.26	16.32	16.30	17.5	0.0
100	PI2 BPSK	1	271	16.09				
100	PI2 BPSK	135	0	16.24			17.5	0.0
100	PI2 BPSK	135	69	16.27			17.5	0.0
100	PI2 BPSK	135	138	16.11			17.5	0.0
100	PI2 BPSK	270	0	16.18			17.5	0.0
100	QPSK	1	1	16.27				
100	QPSK	1	137	16.23			17.5	0.0
100	QPSK	1	271	16.10				
100	QPSK	135	0	16.29				
100	QPSK	135	69	16.26			17.5	0.0
100	QPSK	135	138	16.10				
100	QPSK	270	0	16.21			17.5	0.0
100	16QAM	1	1	16.34			17.5	0.0
100	64QAM	1	1	16.35			17.5	0.0
100	256QAM	1	1	16.31			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.23	16.32	16.30	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.25	16.31	16.14	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.23	16.30	16.18	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.29	16.34	16.15	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.23	16.34	16.19	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.25	16.34	16.11	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.24	16.33	16.18	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.27	16.29	16.15	17.5	0.0

**Part270 n78\_Ant 4 DS16**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.81				
100	PI2 BPSK	1	137	15.85			17.5	0.0
100	PI2 BPSK	1	271	15.68				
100	PI2 BPSK	135	0	15.77			17.5	0.0
100	PI2 BPSK	135	69	15.88			17.5	0.0
100	PI2 BPSK	135	138	15.65			17.5	0.0
100	PI2 BPSK	270	0	15.77			17.5	0.0
100	QPSK	1	1	15.80				
100	QPSK	1	137	15.79			17.5	0.0
100	QPSK	1	271	15.68				
100	QPSK	135	0	15.82				
100	QPSK	135	69	15.79			17.5	0.0
100	QPSK	135	138	15.65				
100	QPSK	270	0	15.68			17.5	0.0
100	16QAM	1	1	15.82			17.5	0.0
100	64QAM	1	1	15.88			17.5	0.0
100	256QAM	1	1	15.74			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.72	15.85	15.59	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.80	15.81	15.50	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	15.79	15.83	15.59	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	15.77	15.82	15.55	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	15.73	15.80	15.58	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.81	15.79	15.53	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	15.79	15.82	15.54	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	15.74	15.82	15.54	17.5	0.0







**Part270 n78\_Ant 5 DSI6**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	18.61			19.5	0.0
100	PI2 BPSK	1	137	18.59				
100	PI2 BPSK	1	271	18.55				
100	PI2 BPSK	135	0	18.53			19.5	0.0
100	PI2 BPSK	135	69	18.56			19.5	0.0
100	PI2 BPSK	135	138	18.53			19.5	0.0
100	PI2 BPSK	270	0	18.52				
100	QPSK	1	1	18.52				
100	QPSK	1	137	18.54			19.5	0.0
100	QPSK	1	271	18.53				
100	QPSK	135	0	18.52			19.5	0.0
100	QPSK	135	69	18.54				
100	QPSK	135	138	18.50			19.5	0.0
100	QPSK	270	0	17.86				
100	16QAM	1	1	18.01			19.5	0.0
100	16QAM	1	1	16.79			18.0	1.5
100	256QAM	1	1	14.69			18.0	3.5
Channel				649668	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)
90	PI2 BPSK	1	1	18.36	18.40	18.43	19.5	0.0
Channel				649304	650000	650666	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)
80	PI2 BPSK	1	1	18.39	18.41	18.44	19.5	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	PI2 BPSK	1	1	18.39	18.44	18.40	19.5	0.0
Channel				648668	650000	651332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)
60	PI2 BPSK	1	1	18.36	18.39	18.38	19.5	0.0
Channel				648304	650000	651666	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)
50	PI2 BPSK	1	1	18.41	18.40	18.36	19.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	PI2 BPSK	1	1	18.38	18.43	18.40	19.5	0.0
Channel				647668	650000	652332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)
30	PI2 BPSK	1	1	18.44	18.40	18.36	19.5	0.0
Channel				647304	650000	652666	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)
20	PI2 BPSK	1	1	18.44	18.43	18.38	19.5	0.0



### n2\_Ant 2 DSI6 Sim-Tx

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	372000	376000	380000					
Frequency (MHz)	1880	1880	1900					
20	Pi/2 BPSK	1	1	19.09	19.29	19.16		
20	Pi/2 BPSK	1	53	18.97	19.04	19.01	20.0	0.0
20	Pi/2 BPSK	1	104	18.96	19.10	19.08		
20	Pi/2 BPSK	50	0	18.88	18.99	18.94	20.0	0.0
20	Pi/2 BPSK	50	28	19.00	19.25	19.06	20.0	0.0
20	Pi/2 BPSK	50	56	18.89	19.02	18.98	20.0	0.0
20	Pi/2 BPSK	100	0	18.93	19.10	18.96		
20	QPSK	1	1	19.06	19.15	19.14		
20	QPSK	1	53	18.85	18.99	18.94	20.0	0.0
20	QPSK	1	104	18.97	19.04	19.03		
20	QPSK	50	0	19.00	19.09	19.06	20.0	0.0
20	QPSK	50	28	18.83	18.96	18.91	20.0	0.0
20	QPSK	50	56	18.87	19.00	18.96	20.0	0.0
20	QPSK	100	0	18.91	19.02	19.01		
20	16QAM	1	1	19.02	19.15	19.10	20.0	0.0
20	64QAM	1	1	19.09	19.17	19.12	20.0	0.0
20	256QAM	1	1	18.61	18.82	18.72	19.5	0.5
Channel	371500	376000	380500					
Frequency (MHz)	1857.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)			
15	Pi/2 BPSK	1	1	18.98	19.08	19.06	20.0	0.0
Channel	371000	376000	381000					
Frequency (MHz)	1855	1880	1905	Tune-up limit (dBm)	MPR (dB)			
10	Pi/2 BPSK	1	1	19.02	19.04	19.07	20.0	0.0
Channel	370500	376000	381500					
Frequency (MHz)	1852.5	1880	1907.5	Tune-up limit (dBm)	MPR (dB)			
5	Pi/2 BPSK	1	1	18.99	19.00	19.07	20.0	0.0



Part27Q\_n77\_Ant 4 DS16 Sim-Tx

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Ch., Power Middle Ch., Power High Ch., Tune-up limit (dBm), MPR (dB). Contains multiple channel configurations for Part27Q\_n77\_Ant 4 DS16 Sim-Tx.

Part27Q\_n77\_Ant 4(HPUE) DS16 Sim-Tx

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Ch., Power Middle Ch., Power High Ch., Tune-up limit (dBm), MPR (dB). Contains multiple channel configurations for Part27Q\_n77\_Ant 4(HPUE) DS16 Sim-Tx.

Part 27O n77\_Ant 4 DS16 Sim-Tx

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Ch., Power Middle Ch., Power High Ch., Tune-up limit (dBm), MPR (dB). Contains multiple channel configurations for Part 27O n77\_Ant 4 DS16 Sim-Tx.



Part 270 n77_Ant 4(HPUe) DS16 Sim-Tx									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	12.87	12.97	12.75			
100	PI2 BPSK	1	137	12.75	12.91	12.66	14.5	0.0	
100	PI2 BPSK	1	271	12.73	12.89	12.66			
100	PI2 BPSK	135	0	12.63	12.80	12.62	14.5	0.0	
100	PI2 BPSK	135	69	12.72	12.82	12.68	14.5	0.0	
100	PI2 BPSK	135	138	12.60	12.80	12.58	14.5	0.0	
100	PI2 BPSK	270	0	12.59	12.73	12.53			
100	QPSK	1	1	12.68	12.86	12.64			
100	QPSK	1	137	12.62	12.82	12.63	14.5	0.0	
100	QPSK	1	271	12.74	12.93	12.68			
100	QPSK	135	0	12.72	12.88	12.59			
100	QPSK	135	69	12.64	12.79	12.61	14.5	0.0	
100	QPSK	135	138	12.58	12.76	12.51			
100	QPSK	270	0	12.86	12.98	12.76	14.5	0.0	
100	16QAM	1	1	12.89	12.87	12.65	14.5	0.0	
100	64QAM	1	1	12.73	12.82	12.65	14.5	0.0	
100	256QAM	1	1	12.83	12.92	12.75	14.5	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	12.81	12.80	12.63	14.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	12.77	12.90	12.70	14.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	12.80	12.91	12.68	14.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	12.80	12.89	12.69	14.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	12.75	12.92	12.65	14.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	12.81	12.89	12.67	14.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	12.77	12.87	12.65	14.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	12.81	12.92	12.68	14.5	0.0	

Part27Q n78_Ant 4 DS16 Sim-Tx									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	13.03					
100	PI2 BPSK	1	137	13.25			14.5	0.0	
100	PI2 BPSK	1	271	13.02					
100	PI2 BPSK	135	0	13.23			14.5	0.0	
100	PI2 BPSK	135	69	13.26			14.5	0.0	
100	PI2 BPSK	135	138	13.10			14.5	0.0	
100	PI2 BPSK	270	0	13.10					
100	QPSK	1	1	13.20					
100	QPSK	1	137	13.16			14.5	0.0	
100	QPSK	1	271	13.04					
100	QPSK	135	0	13.23					
100	QPSK	135	69	13.18			14.5	0.0	
100	QPSK	135	138	13.07			14.5	0.0	
100	QPSK	270	0	13.12			14.5	0.0	
100	16QAM	1	1	13.36			14.5	0.0	
100	64QAM	1	1	13.39			14.5	0.0	
100	256QAM	1	1	13.26			14.5	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	13.11	13.15	12.87	14.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	13.12	13.13	12.85	14.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	13.07	13.14	12.94	14.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	13.08	13.16	12.97	14.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	13.09	13.13	12.98	14.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	13.09	13.17	12.88	14.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	13.12	13.17	12.95	14.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	13.07	13.14	12.94	14.5	0.0	

Part270 n78_Ant 4 DS16 Sim-Tx									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	12.86					
100	PI2 BPSK	1	137	12.88			14.5	0.0	
100	PI2 BPSK	1	271	12.77					
100	PI2 BPSK	135	0	12.88			14.5	0.0	
100	PI2 BPSK	135	69	12.88			14.5	0.0	
100	PI2 BPSK	135	138	12.69			14.5	0.0	
100	PI2 BPSK	270	0	12.79					
100	QPSK	1	1	12.82					
100	QPSK	1	137	12.86			14.5	0.0	
100	QPSK	1	271	12.78					
100	QPSK	135	0	12.86					
100	QPSK	135	69	12.85			14.5	0.0	
100	QPSK	135	138	12.66					
100	QPSK	270	0	12.80			14.5	0.0	
100	16QAM	1	1	12.95			14.5	0.0	
100	64QAM	1	1	12.95			14.5	0.0	
100	256QAM	1	1	12.83			14.5	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	12.78	12.79	12.59	14.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	12.78	12.79	12.57	14.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	12.76	12.81	12.62	14.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	12.77	12.78	12.57	14.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	12.75	12.79	12.52	14.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	12.78	12.80	12.57	14.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	12.74	12.79	12.61	14.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	12.74	12.79	12.62	14.5	0.0	



### Part27Q\_n77\_Ant 5 DS16 Sim-Tx

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3500.01								
100	PI2 BPSK	1	1	15.69				
100	PI2 BPSK	1	137	15.62				0.0
100	PI2 BPSK	1	271	15.67			16.5	0.0
100	PI2 BPSK	135	0	15.62			16.5	0.0
100	PI2 BPSK	135	69	15.65			16.5	0.0
100	PI2 BPSK	135	138	15.59			16.5	0.0
100	PI2 BPSK	270	0	15.62			16.5	0.0
100	QPSK	1	1	15.56				
100	QPSK	1	137	15.63			16.5	0.0
100	QPSK	1	271	15.66			16.5	0.0
100	QPSK	135	0	15.61			16.5	0.0
100	QPSK	135	69	15.59			16.5	0.0
100	QPSK	135	138	15.61			16.5	0.0
100	QPSK	270	0	15.56			16.5	0.0
100	16QAM	1	1	15.62			16.5	0.0
100	64QAM	1	1	15.60			16.0	0.5
100	256QAM	1	1	14.91			16.0	0.5
Channel								
Frequency (MHz)								
633000								
90	PI2 BPSK	1	1	15.47	15.59	15.59	16.5	0.0
Channel								
Frequency (MHz)								
3490.02								
80	PI2 BPSK	1	1	15.49	15.56	15.53	16.5	0.0
Channel								
Frequency (MHz)								
633334								
70	PI2 BPSK	1	1	15.46	15.55	15.54	16.5	0.0
Channel								
Frequency (MHz)								
632000								
60	PI2 BPSK	1	1	15.45	15.63	15.58	16.5	0.0
Channel								
Frequency (MHz)								
3475.02								
50	PI2 BPSK	1	1	15.50	15.60	15.54	16.5	0.0
Channel								
Frequency (MHz)								
631334								
40	PI2 BPSK	1	1	15.48	15.61	15.59	16.5	0.0
Channel								
Frequency (MHz)								
631000								
30	PI2 BPSK	1	1	15.50	15.63	15.59	16.5	0.0
Channel								
Frequency (MHz)								
3460.02								
20	PI2 BPSK	1	1	15.49	15.61	15.55	16.5	0.0

### Part 270 n77\_Ant 5 DS16 Sim-Tx

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
650000								
100	PI2 BPSK	1	1	15.76	15.82	15.58		
100	PI2 BPSK	1	137	15.68	15.75	15.54	16.5	0.0
100	PI2 BPSK	1	271	15.49	15.58	15.35	16.5	0.0
100	PI2 BPSK	135	0	15.64	15.72	15.50	16.5	0.0
100	PI2 BPSK	135	69	15.68	15.76	15.54	16.5	0.0
100	PI2 BPSK	135	138	15.54	15.59	15.38	16.5	0.0
100	PI2 BPSK	270	0	15.62	15.69	15.47	16.5	0.0
100	QPSK	1	1	15.76	15.80	15.60		
100	QPSK	1	137	15.68	15.73	15.53	16.5	0.0
100	QPSK	1	271	15.52	15.54	15.33	16.5	0.0
100	QPSK	135	0	15.68	15.70	15.50	16.5	0.0
100	QPSK	135	69	15.68	15.71	15.51	16.5	0.0
100	QPSK	135	138	15.51	15.54	15.33	16.5	0.0
100	QPSK	270	0	15.59	15.68	15.48	16.5	0.0
100	16QAM	1	1	15.67	15.78	15.53	16.5	0.0
100	64QAM	1	1	15.73	15.78	15.55	16.5	0.0
100	256QAM	1	1	14.88	14.84	14.70	16.0	0.5
Channel								
Frequency (MHz)								
646968								
90	PI2 BPSK	1	1	15.71	15.78	15.50	16.5	0.0
Channel								
Frequency (MHz)								
3740.01								
80	PI2 BPSK	1	1	15.67	15.71	15.54	16.5	0.0
Channel								
Frequency (MHz)								
648000								
70	PI2 BPSK	1	1	15.68	15.77	15.51	16.5	0.0
Channel								
Frequency (MHz)								
646968								
60	PI2 BPSK	1	1	15.69	15.70	15.47	16.5	0.0
Channel								
Frequency (MHz)								
3730.02								
50	PI2 BPSK	1	1	15.74	15.77	15.54	16.5	0.0
Channel								
Frequency (MHz)								
648000								
40	PI2 BPSK	1	1	15.73	15.79	15.43	16.5	0.0
Channel								
Frequency (MHz)								
647968								
30	PI2 BPSK	1	1	15.68	15.74	15.45	16.5	0.0
Channel								
Frequency (MHz)								
3710.01								
20	PI2 BPSK	1	1	15.73	15.79	15.47	16.5	0.0

### Part27Q\_n78\_Ant 5 DS16 Sim-Tx

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
633000								
100	PI2 BPSK	1	1	15.45				
100	PI2 BPSK	1	137	15.42			16.5	0.0
100	PI2 BPSK	1	271	15.41			16.5	0.0
100	PI2 BPSK	135	0	15.38			16.5	0.0
100	PI2 BPSK	135	69	15.43			16.5	0.0
100	PI2 BPSK	135	138	15.39			16.5	0.0
100	PI2 BPSK	270	0	15.37			16.5	0.0
100	QPSK	1	1	15.33				
100	QPSK	1	137	15.37			16.5	0.0
100	QPSK	1	271	15.43			16.5	0.0
100	QPSK	135	0	15.42			16.5	0.0
100	QPSK	135	69	15.39			16.5	0.0
100	QPSK	135	138	15.37			16.5	0.0
100	QPSK	270	0	15.36			16.5	0.0
100	16QAM	1	1	15.43			16.5	0.0
100	64QAM	1	1	15.37			16.5	0.0
100	256QAM	1	1	14.23			16.0	0.5
Channel								
Frequency (MHz)								
633000								
90	PI2 BPSK	1	1	15.24	15.38	15.42	16.5	0.0
Channel								
Frequency (MHz)								
3490.02								
80	PI2 BPSK	1	1	15.27	15.42	15.31	16.5	0.0
Channel								
Frequency (MHz)								
632000								
70	PI2 BPSK	1	1	15.25	15.41	15.32	16.5	0.0
Channel								
Frequency (MHz)								
632000								
60	PI2 BPSK	1	1	15.24	15.36	15.42	16.5	0.0
Channel								
Frequency (MHz)								
3475.02								
50	PI2 BPSK	1	1	15.32	15.40	15.42	16.5	0.0
Channel								
Frequency (MHz)								
631334								
40	PI2 BPSK	1	1	15.28	15.31	15.31	16.5	0.0
Channel								
Frequency (MHz)								
631000								
30	PI2 BPSK	1	1	15.28	15.37	15.37	16.5	0.0
Channel								
Frequency (MHz)								
3460.02								
20	PI2 BPSK	1	1	15.30	15.31	15.40	16.5	0.0



### Part270 n78\_Ant 5 DSI6 Sim-Tx

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	15.60			18.5	0.0
100	PI2 BPSK	1	137	15.51				
100	PI2 BPSK	1	271	15.54				
100	PI2 BPSK	135	0	15.50			18.5	0.0
100	PI2 BPSK	135	69	15.58			18.5	0.0
100	PI2 BPSK	135	138	15.51				
100	PI2 BPSK	270	0	15.48			18.5	0.0
100	QPSK	1	1	15.44				
100	QPSK	1	137	15.45			18.5	0.0
100	QPSK	1	271	15.58				
100	QPSK	135	0	15.55				
100	QPSK	135	69	15.47			18.5	0.0
100	QPSK	135	138	15.51				
100	QPSK	270	0	15.48			18.5	0.0
100	16QAM	1	1	15.58			18.5	0.0
100	16QAM	1	1	15.52			18.5	0.0
100	256QAM	1	1	14.89			18.0	0.5
Channel				648688	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)
90	PI2 BPSK	1	1	15.34	15.48	15.54	18.5	0.0
Channel				649304	650000	650696	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)
80	PI2 BPSK	1	1	15.31	15.48	15.54	18.5	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	PI2 BPSK	1	1	15.28	15.43	15.44	18.5	0.0
Channel				648688	650000	651332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3759.98	(dBm)	(dB)
60	PI2 BPSK	1	1	15.32	15.43	15.45	18.5	0.0
Channel				649304	650000	651696	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)
50	PI2 BPSK	1	1	15.29	15.50	15.44	18.5	0.0
Channel				649000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	PI2 BPSK	1	1	15.32	15.50	15.50	18.5	0.0
Channel				647688	650000	652332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)
30	PI2 BPSK	1	1	15.34	15.43	15.44	18.5	0.0
Channel				649304	650000	652696	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)
20	PI2 BPSK	1	1	15.31	15.48	15.50	18.5	0.0



**Bluetooth/WLAN Power**

**BT BR/EDR**

Mode	Channel	Frequency (MHz)	Average power (dBm)									Tune-up Limit
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	16.00	16.00	16.10	10.9	10.90	11.00	10.80	10.80	10.90	18.00
	CH 39	2441	16.90	16.90	17.00	11.8	11.80	11.90	11.80	11.80	11.90	
	CH 78	2480	17.00	17.00	17.10	12.1	12.10	12.20	12.10	12.10	12.20	

**BLE 1M**

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	9.90	
	CH 19	2440	10.50	
	CH 39	2480	10.60	
Tune-up Limit			11.5	

**BLE 1M/2M**

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	9.90	10.00
	CH 19	2440	10.50	10.60
	CH 39	2480	10.60	10.70
Tune-up Limit			11.50	11.50

