



Ant 2

Band 7 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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.86	23.95	23.78	25	0
20	QPSK	1	49	23.69	23.73	23.66		
20	QPSK	1	99	23.71	23.77	23.70		
20	QPSK	50	0	22.94	22.95	22.80	24	1
20	QPSK	50	24	22.83	22.77	22.75		
20	QPSK	50	50	22.65	22.81	22.70		
20	QPSK	100	0	22.86	22.89	22.79	24	1
20	16QAM	1	0	22.70	22.91	22.83		
20	16QAM	1	49	22.74	22.81	22.67		
20	16QAM	1	99	22.77	22.71	22.82	23	2
20	16QAM	50	0	21.88	21.87	21.82		
20	16QAM	50	24	21.85	21.86	21.88		
20	16QAM	50	50	21.81	21.82	21.75	23	2
20	16QAM	100	0	21.60	21.82	21.68		
20	16QAM	100	0	21.60	21.82	21.68		
20	64QAM	1	0	21.75	21.94	21.93	23	2
20	64QAM	1	49	21.80	22.00	21.80		
20	64QAM	1	99	21.87	21.78	21.75		
20	64QAM	50	0	20.85	21.10	20.96	22	3
20	64QAM	50	24	20.99	20.93	20.88		
20	64QAM	50	50	20.82	20.95	20.86		
20	64QAM	100	0	20.91	20.86	20.69	20	5
20	256QAM	1	0	19.18	19.21	19.09		
20	256QAM	1	49	19.07	19.16	19.11		
20	256QAM	1	99	19.05	19.09	19.00	20	5
20	256QAM	50	0	19.01	19.05	18.99		
20	256QAM	50	24	18.89	18.98	18.91		
20	256QAM	50	50	18.79	18.92	18.87	20	5
20	256QAM	100	0	18.78	18.86	18.72		
20	256QAM	100	0	18.78	18.86	18.72		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.74	23.88	23.71	25	0
15	QPSK	1	37	23.64	23.65	23.56		
15	QPSK	1	74	23.67	23.65	23.62		
15	QPSK	36	0	22.84	22.86	22.73	24	1
15	QPSK	36	20	22.79	22.69	22.72		
15	QPSK	36	39	22.54	22.67	22.60		
15	QPSK	75	0	22.74	22.78	22.66	24	1
15	16QAM	1	0	22.57	22.84	22.69		
15	16QAM	1	37	22.67	22.66	22.59		
15	16QAM	1	74	22.68	22.64	22.78	24	1
15	16QAM	36	0	21.75	21.81	21.73		



15	16QAM	36	20	21.70	21.83	21.77		
15	16QAM	36	39	21.70	21.75	21.68		
15	16QAM	75	0	21.45	21.74	21.59		
15	64QAM	1	0	21.62	21.91	21.90	23	2
15	64QAM	1	37	21.73	21.85	21.72		
15	64QAM	1	74	21.80	21.66	21.67		
15	64QAM	36	0	20.81	21.05	20.89	22	3
15	64QAM	36	20	20.85	20.82	20.76		
15	64QAM	36	39	20.75	20.91	20.76		
15	64QAM	75	0	20.79	20.78	20.62		
15	256QAM	1	0	19.05	19.10	19.01	20	5
15	256QAM	1	37	18.95	19.03	19.04		
15	256QAM	1	74	18.92	19.03	18.91		
15	256QAM	36	0	18.86	18.92	18.86	20	5
15	256QAM	36	20	18.78	18.84	18.78		
15	256QAM	36	39	18.71	18.87	18.81		
15	256QAM	75	0	18.70	18.82	18.60		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.72	23.83	23.74	25	0
10	QPSK	1	25	23.55	23.60	23.55		
10	QPSK	1	49	23.61	23.73	23.60		
10	QPSK	25	0	22.83	22.87	22.68	24	1
10	QPSK	25	12	22.71	22.66	22.63		
10	QPSK	25	25	22.55	22.76	22.57		
10	QPSK	50	0	22.80	22.84	22.74		
10	16QAM	1	0	22.56	22.83	22.76	24	1
10	16QAM	1	25	22.65	22.76	22.56		
10	16QAM	1	49	22.73	22.66	22.77		
10	16QAM	25	0	21.83	21.79	21.75	23	2
10	16QAM	25	12	21.79	21.74	21.85		
10	16QAM	25	25	21.67	21.72	21.70		
10	16QAM	50	0	21.47	21.75	21.61		
10	64QAM	1	0	21.69	21.87	21.89	23	2
10	64QAM	1	25	21.73	21.90	21.76		
10	64QAM	1	49	21.83	21.63	21.68		
10	64QAM	25	0	20.80	20.98	20.88	22	3
10	64QAM	25	12	20.89	20.89	20.78		
10	64QAM	25	25	20.79	20.83	20.80		
10	64QAM	50	0	20.77	20.79	20.57		
10	256QAM	1	0	19.09	19.15	18.97	20	5
10	256QAM	1	25	19.03	19.13	18.98		
10	256QAM	1	49	18.94	19.05	18.92		
10	256QAM	25	0	18.94	19.01	18.92	20	5
10	256QAM	25	12	18.80	18.88	18.86		
10	256QAM	25	25	18.68	18.78	18.83		
10	256QAM	50	0	18.73	18.74	18.63		



Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	23.74	23.90	23.66	25	0
5	QPSK	1	12	23.58	23.64	23.54		
5	QPSK	1	24	23.59	23.72	23.66		
5	QPSK	12	0	22.81	22.81	22.67	24	1
5	QPSK	12	7	22.74	22.69	22.62		
5	QPSK	12	13	22.52	22.72	22.66		
5	QPSK	25	0	22.77	22.77	22.66		
5	16QAM	1	0	22.55	22.86	22.73	24	1
5	16QAM	1	12	22.60	22.78	22.57		
5	16QAM	1	24	22.64	22.56	22.75		
5	16QAM	12	0	21.81	21.75	21.70	23	2
5	16QAM	12	7	21.80	21.74	21.78		
5	16QAM	12	13	21.68	21.70	21.63		
5	16QAM	25	0	21.47	21.74	21.57		
5	64QAM	1	0	21.71	21.90	21.83	23	2
5	64QAM	1	12	21.77	21.86	21.66		
5	64QAM	1	24	21.74	21.70	21.65		
5	64QAM	12	0	20.76	21.03	20.86	22	3
5	64QAM	12	7	20.94	20.78	20.78		
5	64QAM	12	13	20.76	20.81	20.77		
5	64QAM	25	0	20.77	20.73	20.55		
5	256QAM	1	0	19.07	19.12	18.96	20	5
5	256QAM	1	12	18.96	19.12	19.04		
5	256QAM	1	24	18.91	18.97	18.92		
5	256QAM	12	0	18.88	18.95	18.89	20	5
5	256QAM	12	7	18.81	18.93	18.87		
5	256QAM	12	13	18.72	18.83	18.73		
5	256QAM	25	0	18.70	18.77	18.61		



Reduced Power Mode for DSI 1

Ant 0

Band 5 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.90	23.05	22.98	24	0
10	QPSK	1	25	22.84	22.89	22.77		
10	QPSK	1	49	22.87	22.95	22.84		
10	QPSK	25	0	22.05	22.10	22.00	23	1
10	QPSK	25	12	21.90	22.04	21.93		
10	QPSK	25	25	21.88	21.97	21.86		
10	QPSK	50	0	21.90	22.02	21.94	23	1
10	16QAM	1	0	21.81	21.95	21.91		
10	16QAM	1	25	21.86	21.90	21.82		
10	16QAM	1	49	21.82	21.92	21.81	22	2
10	16QAM	25	0	21.15	21.26	21.21		
10	16QAM	25	12	21.07	21.19	21.15		
10	16QAM	25	25	20.92	21.01	20.89	22	2
10	16QAM	50	0	21.12	21.22	21.10		
10	64QAM	1	0	21.06	21.15	21.08		
10	64QAM	1	25	20.97	21.09	20.96	22	2
10	64QAM	1	49	20.98	21.04	20.96		
10	64QAM	25	0	20.14	20.18	20.09		
10	64QAM	25	12	20.02	20.13	20.00	21	3
10	64QAM	25	25	19.92	20.06	19.95		
10	64QAM	50	0	19.97	20.11	20.06		
10	256QAM	1	0	18.12	18.16	18.03	19	5
10	256QAM	1	25	18.05	18.10	18.06		
10	256QAM	1	49	17.99	18.02	17.97		
10	256QAM	25	0	17.98	18.09	18.02	19	5
10	256QAM	25	12	17.95	18.03	17.92		
10	256QAM	25	25	17.89	17.99	17.87		
10	256QAM	50	0	17.86	17.94	17.80		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.87	22.93	22.88	24	0
5	QPSK	1	12	22.79	22.78	22.73		
5	QPSK	1	24	22.74	22.83	22.71		
5	QPSK	12	0	22.01	22.05	21.95	23	1
5	QPSK	12	7	21.84	21.96	21.86		
5	QPSK	12	13	21.75	21.88	21.75		
5	QPSK	25	0	21.85	21.92	21.88	23	1
5	16QAM	1	0	21.67	21.91	21.82		
5	16QAM	1	12	21.82	21.78	21.67		
5	16QAM	1	24	21.78	21.83	21.72		



5	16QAM	12	0	21.08	21.18	21.17	22	2
5	16QAM	12	7	21.03	21.07	21.08		
5	16QAM	12	13	20.87	20.89	20.83		
5	16QAM	25	0	21.08	21.07	21.02	22	2
5	64QAM	1	0	20.92	21.03	21.03		
5	64QAM	1	12	20.86	21.05	20.90		
5	64QAM	1	24	20.87	21.01	20.82	21	3
5	64QAM	12	0	20.09	20.10	20.02		
5	64QAM	12	7	19.94	20.03	19.95		
5	64QAM	12	13	19.81	19.95	19.83	19	5
5	64QAM	25	0	19.83	20.06	19.91		
5	256QAM	1	0	18.06	18.10	18.00		
5	256QAM	1	12	17.95	18.06	17.99	19	5
5	256QAM	1	24	17.96	17.90	17.88		
5	256QAM	12	0	17.86	18.02	17.88		
5	256QAM	12	7	17.83	17.90	17.86	19	5
5	256QAM	12	13	17.86	17.88	17.76		
5	256QAM	25	0	17.72	17.87	17.74		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.76	22.96	22.93	24	0
3	QPSK	1	8	22.70	22.75	22.68		
3	QPSK	1	14	22.73	22.81	22.70		
3	QPSK	8	0	22.00	22.04	21.91	23	1
3	QPSK	8	4	21.83	22.00	21.96		
3	QPSK	8	7	21.83	21.84	21.73		
3	QPSK	15	0	21.83	21.96	21.86	23	1
3	16QAM	1	0	21.77	21.84	21.77		
3	16QAM	1	8	21.83	21.81	21.67		
3	16QAM	1	14	21.73	21.82	21.69	22	2
3	16QAM	8	0	21.11	21.11	21.15		
3	16QAM	8	4	21.03	21.16	21.02		
3	16QAM	8	7	20.86	20.89	20.81	22	2
3	16QAM	15	0	20.99	21.17	20.97		
3	64QAM	1	0	20.94	21.08	21.01		
3	64QAM	1	8	20.88	21.01	20.88	21	3
3	64QAM	1	14	20.86	20.92	20.92		
3	64QAM	8	0	20.00	20.04	19.98		
3	64QAM	8	4	19.93	20.08	19.87	19	5
3	64QAM	8	7	19.79	20.00	19.92		
3	64QAM	15	0	19.84	20.06	20.02		
3	256QAM	1	0	18.00	18.08	17.93	19	5
3	256QAM	1	8	17.97	18.04	17.95		
3	256QAM	1	14	17.87	17.89	17.86		
3	256QAM	8	0	17.90	18.02	17.91	19	5
3	256QAM	8	4	17.91	17.89	17.82		
3	256QAM	8	7	17.84	17.91	17.78		



3	256QAM	15	0	17.77	17.82	17.75		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.83	22.99	22.84	24	0
1.4	QPSK	1	3	22.76	22.85	22.73		
1.4	QPSK	1	5	22.81	22.84	22.79		
1.4	QPSK	3	0	22.80	22.95	22.86		
1.4	QPSK	3	1	22.70	22.79	22.70		
1.4	QPSK	3	3	22.83	22.88	22.73		
1.4	QPSK	6	0	21.99	22.06	21.86	23	1
1.4	16QAM	1	0	21.84	22.00	21.88	23	1
1.4	16QAM	1	3	21.84	21.88	21.81		
1.4	16QAM	1	5	21.80	21.93	21.86		
1.4	16QAM	3	0	21.66	21.86	21.81		
1.4	16QAM	3	1	21.78	21.77	21.76		
1.4	16QAM	3	3	21.78	21.77	21.75		
1.4	16QAM	6	0	21.05	21.22	21.17	22	2
1.4	64QAM	1	0	20.98	21.06	21.09	22	2
1.4	64QAM	1	3	20.81	20.88	20.75		
1.4	64QAM	1	5	21.02	21.07	21.02		
1.4	64QAM	3	0	20.94	21.04	20.96		
1.4	64QAM	3	1	20.83	21.05	20.89		
1.4	64QAM	3	3	20.88	20.94	20.87		
1.4	64QAM	6	0	20.10	20.14	19.95	21	3
1.4	256QAM	1	0	17.99	18.02	17.92	19	5
1.4	256QAM	1	3	18.00	17.98	17.99		
1.4	256QAM	1	5	17.93	17.91	17.87		
1.4	256QAM	3	0	17.86	17.99	17.94		
1.4	256QAM	3	1	17.84	17.89	17.84		
1.4	256QAM	3	3	17.82	17.92	17.81		
1.4	256QAM	6	0	17.79	17.88	17.72		



Band 13 Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23230						
Frequency (MHz)				782						
10	QPSK	1	0		22.93		24	0		
10	QPSK	1	25		22.74					
10	QPSK	1	49		22.83					
10	QPSK	25	0		22.02		23	1		
10	QPSK	25	12		21.95					
10	QPSK	25	25		21.92					
10	QPSK	50	0		21.93		23	1		
10	16QAM	1	0		21.84					
10	16QAM	1	25		21.80					
10	16QAM	1	49		21.75		22	2		
10	16QAM	25	0		21.21					
10	16QAM	25	12		21.10					
10	16QAM	25	25		20.92		22	2		
10	16QAM	50	0		21.14					
10	64QAM	1	0		21.00					
10	64QAM	1	25		20.99		22	2		
10	64QAM	1	49		20.90					
10	64QAM	25	0		20.11					
10	64QAM	25	12		20.07		21	3		
10	64QAM	25	25		19.92					
10	64QAM	50	0		20.00					
10	256QAM	1	0		18.17		19	5		
10	256QAM	1	25		18.12					
10	256QAM	1	49		18.04					
10	256QAM	25	0		18.00		19	5		
10	256QAM	25	12		17.97					
10	256QAM	25	25		17.93					
10	256QAM	50	0		17.88		19	5		
Channel				23205	23230	23255			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5				
5	QPSK	1	0	22.82	22.89	22.78	24	0		
5	QPSK	1	12	22.60	22.71	22.69				
5	QPSK	1	24	22.73	22.75	22.70				
5	QPSK	12	0	21.97	21.92	21.91	23	1		
5	QPSK	12	7	21.81	21.86	21.81				
5	QPSK	12	13	21.87	21.84	21.83				
5	QPSK	25	0	21.80	21.79	21.82	23	1		
5	16QAM	1	0	21.70	21.75	21.71				
5	16QAM	1	12	21.77	21.71	21.71				
5	16QAM	1	24	21.63	21.67	21.61	23	1		
5	16QAM	12	0	21.17	21.09	21.17				
5	16QAM	12	7	21.03	21.01	21.02				



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5	16QAM	12	13	20.79	20.85	20.84		
5	16QAM	25	0	21.06	21.10	21.05		
5	64QAM	1	0	20.94	20.89	20.96	22	2
5	64QAM	1	12	20.92	20.89	20.90		
5	64QAM	1	24	20.76	20.85	20.85		
5	64QAM	12	0	20.01	20.04	20.04	21	3
5	64QAM	12	7	19.98	20.00	19.93		
5	64QAM	12	13	19.85	19.79	19.87		
5	64QAM	25	0	19.87	19.92	19.89		
5	256QAM	1	0	18.07	18.14	18.05	19	5
5	256QAM	1	12	18.03	18.05	17.98		
5	256QAM	1	24	17.90	17.94	17.99		
5	256QAM	12	0	17.88	17.97	17.97	19	5
5	256QAM	12	7	17.86	17.85	17.92		
5	256QAM	12	13	17.82	17.79	17.88		
5	256QAM	25	0	17.73	17.75	17.85		



Band 17 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	23.17	23.25	23.11	24	0
10	QPSK	1	25	23.05	23.10	22.92		
10	QPSK	1	49	23.03	23.15	23.01		
10	QPSK	25	0	22.30	22.34	22.21	23	1
10	QPSK	25	12	22.17	22.29	22.22		
10	QPSK	25	25	22.13	22.17	22.02		
10	QPSK	50	0	22.15	22.21	22.20	23	1
10	16QAM	1	0	21.96	22.11	22.08		
10	16QAM	1	25	22.08	22.09	22.00		
10	16QAM	1	49	21.98	22.08	22.08	22	2
10	16QAM	25	0	21.38	21.48	21.44		
10	16QAM	25	12	21.32	21.41	21.41		
10	16QAM	25	25	21.28	21.36	21.34	22	2
10	16QAM	50	0	21.36	21.40	21.27		
10	64QAM	1	0	21.30	21.36	21.23		
10	64QAM	1	25	21.13	21.32	21.14	22	2
10	64QAM	1	49	21.24	21.28	21.23		
10	64QAM	25	0	20.29	20.44	20.27		
10	64QAM	25	12	20.19	20.33	20.21	21	3
10	64QAM	25	25	20.14	20.32	20.20		
10	64QAM	50	0	20.20	20.36	20.22		
10	256QAM	1	0	18.26	18.30	18.22	19	5
10	256QAM	1	25	18.19	18.24	18.16		
10	256QAM	1	49	18.06	18.17	18.03		
10	256QAM	25	0	18.16	18.23	18.14	19	5
10	256QAM	25	12	18.03	18.18	18.07		
10	256QAM	25	25	18.00	18.12	17.99		
10	256QAM	50	0	18.01	18.05	17.97		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.05	23.12	23.06	24	0
5	QPSK	1	12	22.98	23.05	22.89		
5	QPSK	1	24	22.96	23.01	22.96		
5	QPSK	12	0	22.20	22.26	22.14	23	1
5	QPSK	12	7	22.03	22.15	22.09		
5	QPSK	12	13	22.02	22.05	21.91		
5	QPSK	25	0	22.01	22.18	22.11	23	1
5	16QAM	1	0	21.87	22.00	21.94		
5	16QAM	1	12	21.93	22.05	21.97		
5	16QAM	1	24	21.92	21.99	21.99	22	2
5	16QAM	12	0	21.35	21.39	21.38		
5	16QAM	12	7	21.20	21.30	21.26		



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5	16QAM	12	13	21.20	21.27	21.25		
5	16QAM	25	0	21.23	21.29	21.20		
5	64QAM	1	0	21.27	21.27	21.11	22	2
5	64QAM	1	12	21.00	21.23	21.09		
5	64QAM	1	24	21.10	21.14	21.19		
5	64QAM	12	0	20.17	20.41	20.18	21	3
5	64QAM	12	7	20.05	20.20	20.12		
5	64QAM	12	13	20.09	20.20	20.16		
5	64QAM	25	0	20.07	20.31	20.13		
5	256QAM	1	0	18.18	18.25	18.09	19	5
5	256QAM	1	12	18.07	18.15	18.10		
5	256QAM	1	24	17.95	18.13	17.96		
5	256QAM	12	0	18.12	18.09	18.01	19	5
5	256QAM	12	7	17.93	18.03	17.99		
5	256QAM	12	13	17.86	18.00	17.93		
5	256QAM	25	0	17.94	17.97	17.85		



Band 71 Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				133222	133322	133372				
Frequency (MHz)				673	683	688				
20	QPSK	1	0	22.85	22.91	22.79	24	0		
20	QPSK	1	49	22.66	22.75	22.71				
20	QPSK	1	99	22.69	22.83	22.76				
20	QPSK	50	0	21.86	21.97	21.87	23	1		
20	QPSK	50	24	21.76	21.84	21.81				
20	QPSK	50	50	21.69	21.77	21.71				
20	QPSK	100	0	21.84	21.92	21.80	23	1		
20	16QAM	1	0	21.81	21.92	21.73				
20	16QAM	1	49	21.78	21.90	21.66				
20	16QAM	1	99	21.78	21.78	21.88	22	2		
20	16QAM	50	0	20.90	20.94	20.92				
20	16QAM	50	24	20.91	20.86	20.87				
20	16QAM	50	50	20.81	20.84	20.76	22	2		
20	16QAM	100	0	20.59	20.83	20.69				
20	64QAM	1	0	20.85	20.94	20.94				
20	64QAM	1	49	20.78	21.00	20.87	22	2		
20	64QAM	1	99	20.93	20.76	20.83				
20	64QAM	50	0	19.94	20.06	19.90				
20	64QAM	50	24	19.95	19.91	19.88	21	3		
20	64QAM	50	50	19.72	19.86	19.82				
20	64QAM	100	0	19.78	19.81	19.73				
20	256QAM	1	0	18.01	18.08	17.94	19	5		
20	256QAM	1	49	17.92	18.01	17.91				
20	256QAM	1	99	17.82	17.94	17.82				
20	256QAM	50	0	17.76	17.90	17.81	19	5		
20	256QAM	50	24	17.75	17.87	17.80				
20	256QAM	50	50	17.69	17.82	17.75				
20	256QAM	100	0	17.64	17.76	17.69	19	5		
Channel				133197	133297	133397			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5				
15	QPSK	1	0	22.75	22.88	22.70	24	0		
15	QPSK	1	37	22.62	22.65	22.66				
15	QPSK	1	74	22.56	22.79	22.67				
15	QPSK	36	0	21.78	21.82	21.77	23	1		
15	QPSK	36	20	21.73	21.80	21.67				
15	QPSK	36	39	21.57	21.71	21.56				
15	QPSK	75	0	21.81	21.88	21.71	23	1		
15	16QAM	1	0	21.68	21.79	21.61				
15	16QAM	1	37	21.74	21.85	21.52				
15	16QAM	1	74	21.73	21.72	21.85	22	2		
15	16QAM	36	0	20.79	20.91	20.84				
15	16QAM	36	20	20.77	20.75	20.76				



15	16QAM	36	39	20.67	20.74	20.68		
15	16QAM	75	0	20.45	20.68	20.66		
15	64QAM	1	0	20.78	20.85	20.81	22	2
15	64QAM	1	37	20.63	20.92	20.80		
15	64QAM	1	74	20.83	20.64	20.74		
15	64QAM	36	0	19.81	20.00	19.83	21	3
15	64QAM	36	20	19.86	19.76	19.83		
15	64QAM	36	39	19.63	19.82	19.75		
15	64QAM	75	0	19.67	19.70	19.61		
15	256QAM	1	0	17.93	17.99	17.87	19	5
15	256QAM	1	37	17.89	17.94	17.82		
15	256QAM	1	74	17.73	17.82	17.78		
15	256QAM	36	0	17.66	17.85	17.77	19	5
15	256QAM	36	20	17.66	17.73	17.74		
15	256QAM	36	39	17.59	17.78	17.72		
15	256QAM	75	0	17.53	17.63	17.62		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	22.76	22.81	22.71	24	0
10	QPSK	1	25	22.53	22.65	22.59		
10	QPSK	1	49	22.57	22.78	22.70		
10	QPSK	25	0	21.73	21.90	21.84	23	1
10	QPSK	25	12	21.65	21.75	21.74		
10	QPSK	25	25	21.65	21.65	21.61		
10	QPSK	50	0	21.76	21.82	21.70		
10	16QAM	1	0	21.78	21.77	21.59	23	1
10	16QAM	1	25	21.63	21.77	21.54		
10	16QAM	1	49	21.69	21.71	21.81		
10	16QAM	25	0	20.83	20.83	20.84	22	2
10	16QAM	25	12	20.82	20.73	20.79		
10	16QAM	25	25	20.74	20.72	20.66		
10	16QAM	50	0	20.53	20.72	20.63		
10	64QAM	1	0	20.74	20.87	20.83	22	2
10	64QAM	1	25	20.71	20.96	20.82		
10	64QAM	1	49	20.78	20.70	20.78		
10	64QAM	25	0	19.80	19.98	19.80	21	3
10	64QAM	25	12	19.80	19.87	19.84		
10	64QAM	25	25	19.62	19.80	19.71		
10	64QAM	50	0	19.72	19.77	19.61		
10	256QAM	1	0	17.91	18.02	17.87	19	5
10	256QAM	1	25	17.88	17.91	17.85		
10	256QAM	1	49	17.73	17.88	17.79		
10	256QAM	25	0	17.62	17.76	17.77	19	5
10	256QAM	25	12	17.65	17.84	17.75		
10	256QAM	25	25	17.61	17.76	17.69		
10	256QAM	50	0	17.57	17.69	17.63		
Channel				133147	133247	133447	Tune-up	MPR



Frequency (MHz)				665.5	675.5	695.5	limit (dBm)	(dB)
5	QPSK	1	0	22.73	22.84	22.73	24	0
5	QPSK	1	12	22.53	22.62	22.56		
5	QPSK	1	24	22.56	22.68	22.63		
5	QPSK	12	0	21.78	21.90	21.84	23	1
5	QPSK	12	7	21.69	21.72	21.76		
5	QPSK	12	13	21.65	21.66	21.65		
5	QPSK	25	0	21.75	21.83	21.70	23	1
5	16QAM	1	0	21.76	21.83	21.59		
5	16QAM	1	12	21.65	21.78	21.55		
5	16QAM	1	24	21.73	21.65	21.78	22	2
5	16QAM	12	0	20.83	20.83	20.88		
5	16QAM	12	7	20.88	20.81	20.82		
5	16QAM	12	13	20.76	20.74	20.68	22	2
5	16QAM	25	0	20.46	20.70	20.56		
5	64QAM	1	0	20.74	20.87	20.79		
5	64QAM	1	12	20.71	20.93	20.74	21	3
5	64QAM	1	24	20.78	20.64	20.68		
5	64QAM	12	0	19.84	19.95	19.79		
5	64QAM	12	7	19.88	19.83	19.83	19	5
5	64QAM	12	13	19.63	19.80	19.76		
5	64QAM	25	0	19.71	19.72	19.66		
5	256QAM	1	0	17.89	17.94	17.80	19	5
5	256QAM	1	12	17.87	17.88	17.83		
5	256QAM	1	24	17.74	17.85	17.69		
5	256QAM	12	0	17.62	17.78	17.67	19	5
5	256QAM	12	7	17.64	17.76	17.76		
5	256QAM	12	13	17.55	17.70	17.60		
5	256QAM	25	0	17.60	17.71	17.59		



Ant 1

Band 2 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				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	22.43	22.49	22.37	24	0
20	QPSK	1	49	22.36	22.43	22.32		
20	QPSK	1	99	22.29	22.39	22.29		
20	QPSK	50	0	21.55	21.61	21.48	23	1
20	QPSK	50	24	21.42	21.55	21.51		
20	QPSK	50	50	21.40	21.47	21.33		
20	QPSK	100	0	21.45	21.51	21.43	23	1
20	16QAM	1	0	21.38	21.48	21.42		
20	16QAM	1	49	21.36	21.44	21.33		
20	16QAM	1	99	21.28	21.41	21.37	22	2
20	16QAM	50	0	20.55	20.59	20.50		
20	16QAM	50	24	20.49	20.53	20.43		
20	16QAM	50	50	20.44	20.48	20.39	22	2
20	16QAM	100	0	20.31	20.41	20.36		
20	64QAM	1	0	20.51	20.62	20.57		
20	64QAM	1	49	20.45	20.57	20.44	22	2
20	64QAM	1	99	20.42	20.51	20.38		
20	64QAM	50	0	19.50	19.63	19.56		
20	64QAM	50	24	19.49	19.56	19.53	21	3
20	64QAM	50	50	19.41	19.50	19.43		
20	64QAM	100	0	19.39	19.46	19.36		
20	256QAM	1	0	17.68	17.75	17.71	19	5
20	256QAM	1	49	17.63	17.71	17.57		
20	256QAM	1	99	17.52	17.64	17.54		
20	256QAM	50	0	17.61	17.67	17.56	19	5
20	256QAM	50	24	17.57	17.61	17.58		
20	256QAM	50	50	17.51	17.56	17.42		
20	256QAM	100	0	17.37	17.51	17.44		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	22.37	22.42	22.25	24	0
15	QPSK	1	37	22.27	22.31	22.22		
15	QPSK	1	74	22.26	22.33	22.25		
15	QPSK	36	0	21.51	21.54	21.43	23	1
15	QPSK	36	20	21.27	21.50	21.37		
15	QPSK	36	39	21.28	21.37	21.20		
15	QPSK	75	0	21.38	21.40	21.33	23	1
15	16QAM	1	0	21.34	21.38	21.31		
15	16QAM	1	37	21.25	21.39	21.30		
15	16QAM	1	74	21.16	21.36	21.28	23	1
15	16QAM	36	0	20.40	20.56	20.43		



15	16QAM	36	20	20.41	20.47	20.33		
15	16QAM	36	39	20.40	20.37	20.27		
15	16QAM	75	0	20.25	20.36	20.24		
15	64QAM	1	0	20.48	20.50	20.50		
15	64QAM	1	37	20.35	20.49	20.33	22	2
15	64QAM	1	74	20.31	20.43	20.30		
15	64QAM	36	0	19.40	19.53	19.47		
15	64QAM	36	20	19.44	19.46	19.44	21	3
15	64QAM	36	39	19.28	19.43	19.39		
15	64QAM	75	0	19.32	19.43	19.24		
15	256QAM	1	0	17.54	17.72	17.62		
15	256QAM	1	37	17.54	17.65	17.46	19	5
15	256QAM	1	74	17.42	17.53	17.47		
15	256QAM	36	0	17.47	17.55	17.48		
15	256QAM	36	20	17.43	17.51	17.45	19	5
15	256QAM	36	39	17.44	17.46	17.30		
15	256QAM	75	0	17.33	17.37	17.32		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	22.31	22.35	22.32		
10	QPSK	1	25	22.24	22.33	22.18	24	0
10	QPSK	1	49	22.23	22.30	22.18		
10	QPSK	25	0	21.49	21.55	21.34		
10	QPSK	25	12	21.33	21.49	21.42	23	1
10	QPSK	25	25	21.35	21.39	21.27		
10	QPSK	50	0	21.31	21.46	21.32		
10	16QAM	1	0	21.33	21.38	21.31		
10	16QAM	1	25	21.31	21.32	21.22	23	1
10	16QAM	1	49	21.20	21.26	21.30		
10	16QAM	25	0	20.43	20.46	20.45		
10	16QAM	25	12	20.40	20.47	20.34	22	2
10	16QAM	25	25	20.36	20.41	20.25		
10	16QAM	50	0	20.21	20.34	20.31		
10	64QAM	1	0	20.44	20.52	20.46		
10	64QAM	1	25	20.30	20.44	20.39	22	2
10	64QAM	1	49	20.35	20.41	20.24		
10	64QAM	25	0	19.36	19.51	19.42		
10	64QAM	25	12	19.39	19.48	19.48	21	3
10	64QAM	25	25	19.31	19.38	19.38		
10	64QAM	50	0	19.28	19.41	19.32		
10	256QAM	1	0	17.57	17.70	17.61		
10	256QAM	1	25	17.53	17.56	17.47	19	5
10	256QAM	1	49	17.39	17.59	17.42		
10	256QAM	25	0	17.52	17.60	17.45		
10	256QAM	25	12	17.43	17.47	17.48	19	5
10	256QAM	25	25	17.36	17.42	17.30		
10	256QAM	50	0	17.24	17.48	17.41		



Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	22.28	22.45	22.32	24	0
5	QPSK	1	12	22.26	22.36	22.29		
5	QPSK	1	24	22.25	22.36	22.19		
5	QPSK	12	0	21.48	21.56	21.44	23	1
5	QPSK	12	7	21.29	21.52	21.42		
5	QPSK	12	13	21.36	21.37	21.24		
5	QPSK	25	0	21.32	21.41	21.33	23	1
5	16QAM	1	0	21.27	21.38	21.33		
5	16QAM	1	12	21.30	21.39	21.26		
5	16QAM	1	24	21.18	21.31	21.30	22	2
5	16QAM	12	0	20.47	20.53	20.45		
5	16QAM	12	7	20.39	20.40	20.35		
5	16QAM	12	13	20.40	20.34	20.26	22	2
5	16QAM	25	0	20.17	20.29	20.31		
5	64QAM	1	0	20.42	20.52	20.46		
5	64QAM	1	12	20.41	20.52	20.40	21	3
5	64QAM	1	24	20.29	20.40	20.25		
5	64QAM	12	0	19.37	19.59	19.47		
5	64QAM	12	7	19.43	19.43	19.45	19	5
5	64QAM	12	13	19.37	19.38	19.33		
5	64QAM	25	0	19.29	19.42	19.31		
5	256QAM	1	0	17.64	17.68	17.63	19	5
5	256QAM	1	12	17.59	17.60	17.44		
5	256QAM	1	24	17.48	17.54	17.48		
5	256QAM	12	0	17.57	17.63	17.43	19	5
5	256QAM	12	7	17.47	17.53	17.53		
5	256QAM	12	13	17.41	17.53	17.30		
5	256QAM	25	0	17.27	17.42	17.34	24	0
3	QPSK	1	0	22.39	22.41	22.34		
3	QPSK	1	8	22.24	22.30	22.20		
3	QPSK	1	14	22.15	22.28	22.23	23	1
3	QPSK	8	0	21.44	21.53	21.42		
3	QPSK	8	4	21.34	21.51	21.44		
3	QPSK	8	7	21.32	21.36	21.28	23	1
3	QPSK	15	0	21.33	21.41	21.30		
3	16QAM	1	0	21.33	21.45	21.27		
3	16QAM	1	8	21.26	21.33	21.25	22	2
3	16QAM	1	14	21.18	21.28	21.24		
3	16QAM	8	0	20.43	20.44	20.38		
3	16QAM	8	4	20.35	20.49	20.31	22	2
3	16QAM	8	7	20.38	20.39	20.26		
3	16QAM	15	0	20.24	20.27	20.27		
3	64QAM	1	0	20.43	20.59	20.46	22	2



3	64QAM	1	8	20.35	20.50	20.34		
3	64QAM	1	14	20.34	20.48	20.32		
3	64QAM	8	0	19.43	19.56	19.52		
3	64QAM	8	4	19.40	19.51	19.38	21	3
3	64QAM	8	7	19.34	19.44	19.35		
3	64QAM	15	0	19.36	19.34	19.30		
3	256QAM	1	0	17.54	17.67	17.59	19	5
3	256QAM	1	8	17.59	17.60	17.52		
3	256QAM	1	14	17.48	17.58	17.44		
3	256QAM	8	0	17.53	17.62	17.43	19	5
3	256QAM	8	4	17.49	17.55	17.49		
3	256QAM	8	7	17.46	17.43	17.29		
3	256QAM	15	0	17.29	17.43	17.36		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	22.35	22.39	22.32	24	0
1.4	QPSK	1	3	22.25	22.33	22.25		
1.4	QPSK	1	5	22.15	22.24	22.15		
1.4	QPSK	3	0	22.31	22.37	22.28		
1.4	QPSK	3	1	22.31	22.28	22.25		
1.4	QPSK	3	3	22.14	22.29	22.26		
1.4	QPSK	6	0	21.52	21.53	21.34	23	1
1.4	16QAM	1	0	21.38	21.51	21.37	23	1
1.4	16QAM	1	3	21.34	21.43	21.29		
1.4	16QAM	1	5	21.31	21.39	21.31		
1.4	16QAM	3	0	21.35	21.42	21.34		
1.4	16QAM	3	1	21.22	21.32	21.23		
1.4	16QAM	3	3	21.24	21.28	21.25		
1.4	16QAM	6	0	20.40	20.51	20.47	22	2
1.4	64QAM	1	0	20.36	20.48	20.34	22	2
1.4	64QAM	1	3	20.32	20.40	20.35		
1.4	64QAM	1	5	20.23	20.36	20.25		
1.4	64QAM	3	0	20.37	20.53	20.53		
1.4	64QAM	3	1	20.42	20.48	20.40		
1.4	64QAM	3	3	20.37	20.48	20.31		
1.4	64QAM	6	0	19.37	19.55	19.50	21	3
1.4	256QAM	1	0	17.59	17.72	17.67	19	5
1.4	256QAM	1	3	17.53	17.62	17.54		
1.4	256QAM	1	5	17.45	17.56	17.50		
1.4	256QAM	3	0	17.50	17.60	17.50		
1.4	256QAM	3	1	17.43	17.56	17.45		
1.4	256QAM	3	3	17.41	17.46	17.36		
1.4	256QAM	6	0	17.30	17.42	17.36	19	5



Band 4 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				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	22.57	22.66	22.53	24	0
20	QPSK	1	49	22.46	22.51	22.44		
20	QPSK	1	99	22.45	22.54	22.42		
20	QPSK	50	0	21.61	21.74	21.60	23	1
20	QPSK	50	24	21.55	21.61	21.51		
20	QPSK	50	50	21.46	21.56	21.42		
20	QPSK	100	0	21.54	21.68	21.52	23	1
20	16QAM	1	0	21.55	21.60	21.51		
20	16QAM	1	49	21.43	21.58	21.47		
20	16QAM	1	99	21.44	21.50	21.53	22	2
20	16QAM	50	0	20.63	20.67	20.63		
20	16QAM	50	24	20.64	20.64	20.52		
20	16QAM	50	50	20.53	20.54	20.48	22	2
20	16QAM	100	0	20.36	20.47	20.49		
20	64QAM	1	0	20.58	20.74	20.70		
20	64QAM	1	49	20.57	20.71	20.55	22	2
20	64QAM	1	99	20.57	20.56	20.50		
20	64QAM	50	0	19.56	19.80	19.62		
20	64QAM	50	24	19.62	19.65	19.58	21	3
20	64QAM	50	50	19.53	19.63	19.60		
20	64QAM	100	0	19.54	19.60	19.48		
20	256QAM	1	0	17.73	17.77	17.69	19	5
20	256QAM	1	49	17.57	17.71	17.62		
20	256QAM	1	99	17.55	17.65	17.59		
20	256QAM	50	0	17.61	17.72	17.60	19	5
20	256QAM	50	24	17.60	17.66	17.57		
20	256QAM	50	50	17.55	17.62	17.59		
20	256QAM	100	0	17.54	17.59	17.49		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	22.45	22.51	22.40	24	0
15	QPSK	1	37	22.41	22.47	22.34		
15	QPSK	1	74	22.33	22.46	22.29		
15	QPSK	36	0	21.57	21.69	21.46	23	1
15	QPSK	36	20	21.49	21.52	21.52		
15	QPSK	36	39	21.34	21.55	21.27		
15	QPSK	75	0	21.45	21.55	21.42	23	1
15	16QAM	1	0	21.40	21.56	21.43		
15	16QAM	1	37	21.33	21.49	21.37		
15	16QAM	1	74	21.30	21.43	21.43	22	2
15	16QAM	36	0	20.53	20.63	20.51		



15	16QAM	36	20	20.61	20.58	20.45		
15	16QAM	36	39	20.44	20.48	20.36		
15	16QAM	75	0	20.30	20.40	20.34		
15	64QAM	1	0	20.52	20.69	20.57		
15	64QAM	1	37	20.50	20.63	20.41	22	2
15	64QAM	1	74	20.53	20.42	20.45		
15	64QAM	36	0	19.45	19.67	19.52		
15	64QAM	36	20	19.55	19.58	19.51		
15	64QAM	36	39	19.48	19.49	19.48	21	3
15	64QAM	75	0	19.44	19.50	19.40		
15	256QAM	1	0	17.60	17.69	17.57		
15	256QAM	1	37	17.52	17.61	17.57	19	5
15	256QAM	1	74	17.52	17.60	17.54		
15	256QAM	36	0	17.51	17.65	17.51		
15	256QAM	36	20	17.48	17.55	17.48		
15	256QAM	36	39	17.50	17.51	17.46	19	5
15	256QAM	75	0	17.50	17.54	17.41		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	22.43	22.60	22.49		
10	QPSK	1	25	22.39	22.43	22.35	24	0
10	QPSK	1	49	22.31	22.39	22.35		
10	QPSK	25	0	21.52	21.60	21.48		
10	QPSK	25	12	21.43	21.46	21.53	23	1
10	QPSK	25	25	21.40	21.48	21.32		
10	QPSK	50	0	21.46	21.65	21.40		
10	16QAM	1	0	21.49	21.45	21.38		
10	16QAM	1	25	21.33	21.53	21.40	23	1
10	16QAM	1	49	21.36	21.36	21.41		
10	16QAM	25	0	20.58	20.57	20.51		
10	16QAM	25	12	20.56	20.57	20.48	22	2
10	16QAM	25	25	20.45	20.46	20.36		
10	16QAM	50	0	20.28	20.38	20.35		
10	64QAM	1	0	20.52	20.70	20.65		
10	64QAM	1	25	20.47	20.59	20.46	22	2
10	64QAM	1	49	20.53	20.50	20.46		
10	64QAM	25	0	19.50	19.74	19.53		
10	64QAM	25	12	19.50	19.52	19.44	21	3
10	64QAM	25	25	19.47	19.57	19.50		
10	64QAM	50	0	19.48	19.59	19.36		
10	256QAM	1	0	17.66	17.71	17.57		
10	256QAM	1	25	17.43	17.62	17.53	19	5
10	256QAM	1	49	17.44	17.58	17.44		
10	256QAM	25	0	17.49	17.58	17.46		
10	256QAM	25	12	17.49	17.62	17.47		
10	256QAM	25	25	17.43	17.48	17.45	19	5
10	256QAM	50	0	17.48	17.51	17.43		



Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	22.47	22.57	22.45	24	0
5	QPSK	1	12	22.33	22.45	22.34		
5	QPSK	1	24	22.41	22.42	22.31		
5	QPSK	12	0	21.56	21.66	21.53	23	1
5	QPSK	12	7	21.44	21.55	21.48		
5	QPSK	12	13	21.33	21.53	21.28		
5	QPSK	25	0	21.44	21.60	21.39	23	1
5	16QAM	1	0	21.50	21.46	21.47		
5	16QAM	1	12	21.30	21.51	21.44		
5	16QAM	1	24	21.33	21.37	21.45	22	2
5	16QAM	12	0	20.51	20.56	20.52		
5	16QAM	12	7	20.52	20.52	20.46		
5	16QAM	12	13	20.44	20.46	20.34	22	2
5	16QAM	25	0	20.27	20.41	20.41		
5	64QAM	1	0	20.54	20.61	20.67		
5	64QAM	1	12	20.50	20.56	20.50	22	2
5	64QAM	1	24	20.49	20.51	20.42		
5	64QAM	12	0	19.46	19.65	19.53		
5	64QAM	12	7	19.54	19.56	19.53	21	3
5	64QAM	12	13	19.42	19.54	19.48		
5	64QAM	25	0	19.43	19.57	19.43		
5	256QAM	1	0	17.60	17.71	17.58	19	5
5	256QAM	1	12	17.42	17.58	17.53		
5	256QAM	1	24	17.51	17.60	17.45		
5	256QAM	12	0	17.52	17.59	17.50	19	5
5	256QAM	12	7	17.54	17.61	17.44		
5	256QAM	12	13	17.44	17.58	17.50		
5	256QAM	25	0	17.42	17.47	17.39	19	5
5	256QAM	25	0	17.42	17.47	17.39		
5	256QAM	25	0	17.42	17.47	17.39		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	22.49	22.52	22.45	24	0
3	QPSK	1	8	22.38	22.44	22.33		
3	QPSK	1	14	22.33	22.41	22.38		
3	QPSK	8	0	21.53	21.70	21.51	23	1
3	QPSK	8	4	21.46	21.56	21.51		
3	QPSK	8	7	21.34	21.58	21.38		
3	QPSK	15	0	21.46	21.65	21.41	23	1
3	16QAM	1	0	21.49	21.57	21.45		
3	16QAM	1	8	21.36	21.47	21.38		
3	16QAM	1	14	21.33	21.39	21.38	22	2
3	16QAM	8	0	20.54	20.53	20.50		
3	16QAM	8	4	20.60	20.59	20.37		
3	16QAM	8	7	20.43	20.43	20.43	22	2
3	16QAM	15	0	20.25	20.40	20.43		
3	64QAM	1	0	20.50	20.68	20.65		



3	64QAM	1	8	20.51	20.57	20.44		
3	64QAM	1	14	20.42	20.45	20.42		
3	64QAM	8	0	19.46	19.66	19.54	21	3
3	64QAM	8	4	19.49	19.52	19.46		
3	64QAM	8	7	19.42	19.50	19.52		
3	64QAM	15	0	19.51	19.54	19.34		
3	256QAM	1	0	17.67	17.67	17.60		
3	256QAM	1	8	17.52	17.66	17.58	19	5
3	256QAM	1	14	17.42	17.57	17.51		
3	256QAM	8	0	17.54	17.61	17.51		
3	256QAM	8	4	17.53	17.52	17.43	19	5
3	256QAM	8	7	17.47	17.54	17.53		
3	256QAM	15	0	17.48	17.50	17.45		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	22.49	22.62	22.41	24	0
1.4	QPSK	1	3	22.31	22.36	22.36		
1.4	QPSK	1	5	22.33	22.48	22.37		
1.4	QPSK	3	0	22.43	22.55	22.50		
1.4	QPSK	3	1	22.34	22.47	22.41		
1.4	QPSK	3	3	22.35	22.42	22.36		
1.4	QPSK	6	0	21.57	21.63	21.54	23	1
1.4	16QAM	1	0	21.48	21.46	21.53	23	1
1.4	16QAM	1	3	21.39	21.54	21.35		
1.4	16QAM	1	5	21.47	21.54	21.48		
1.4	16QAM	3	0	21.44	21.57	21.39		
1.4	16QAM	3	1	21.29	21.54	21.36		
1.4	16QAM	3	3	21.32	21.44	21.45		
1.4	16QAM	6	0	20.56	20.55	20.58	22	2
1.4	64QAM	1	0	20.54	20.55	20.49	22	2
1.4	64QAM	1	3	20.44	20.47	20.40		
1.4	64QAM	1	5	20.23	20.37	20.35		
1.4	64QAM	3	0	20.55	20.69	20.57		
1.4	64QAM	3	1	20.47	20.59	20.51		
1.4	64QAM	3	3	20.48	20.50	20.38		
1.4	64QAM	6	0	19.52	19.69	19.57	21	3
1.4	256QAM	1	0	17.64	17.71	17.55	19	5
1.4	256QAM	1	3	17.45	17.67	17.53		
1.4	256QAM	1	5	17.50	17.58	17.45		
1.4	256QAM	3	0	17.55	17.66	17.51		
1.4	256QAM	3	1	17.47	17.53	17.42		
1.4	256QAM	3	3	17.48	17.55	17.47		
1.4	256QAM	6	0	17.48	17.49	17.36		
1.4	256QAM	6	0	17.48	17.49	17.36	19	5



Band 66 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				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	22.64	22.69	22.59	24	0
20	QPSK	1	49	22.50	22.56	22.44		
20	QPSK	1	99	22.48	22.57	22.52		
20	QPSK	50	0	21.69	21.76	21.61	23	1
20	QPSK	50	24	21.61	21.62	21.58		
20	QPSK	50	50	21.48	21.58	21.50		
20	QPSK	100	0	21.60	21.70	21.57		
20	16QAM	1	0	21.55	21.71	21.56	23	1
20	16QAM	1	49	21.55	21.65	21.48		
20	16QAM	1	99	21.53	21.53	21.62		
20	16QAM	50	0	20.70	20.69	20.65	22	2
20	16QAM	50	24	20.69	20.65	20.63		
20	16QAM	50	50	20.60	20.58	20.57		
20	16QAM	100	0	20.37	20.59	20.51		
20	64QAM	1	0	20.58	20.77	20.74	22	2
20	64QAM	1	49	20.61	20.76	20.61		
20	64QAM	1	99	20.67	20.58	20.57		
20	64QAM	50	0	19.68	19.85	19.71	21	3
20	64QAM	50	24	19.74	19.67	19.64		
20	64QAM	50	50	19.58	19.69	19.61		
20	64QAM	100	0	19.66	19.68	19.52		
20	256QAM	1	0	17.67	17.82	17.71	19	5
20	256QAM	1	49	17.72	17.78	17.74		
20	256QAM	1	99	17.69	17.73	17.67		
20	256QAM	50	0	17.58	17.66	17.59	19	5
20	256QAM	50	24	17.66	17.74	17.69		
20	256QAM	50	50	17.62	17.68	17.63		
20	256QAM	100	0	17.46	17.61	17.50		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	22.58	22.61	22.51	24	0
15	QPSK	1	37	22.36	22.45	22.38		
15	QPSK	1	74	22.43	22.50	22.39		
15	QPSK	36	0	21.57	21.66	21.51	23	1
15	QPSK	36	20	21.52	21.50	21.52		
15	QPSK	36	39	21.40	21.48	21.39		
15	QPSK	75	0	21.54	21.56	21.47		
15	16QAM	1	0	21.48	21.66	21.41	23	1
15	16QAM	1	37	21.45	21.55	21.40		
15	16QAM	1	74	21.48	21.39	21.56		
15	16QAM	36	0	20.58	20.60	20.58	22	2
15	16QAM	36	20	20.61	20.51	20.53		



15	16QAM	36	39	20.52	20.53	20.51		
15	16QAM	75	0	20.23	20.54	20.43		
15	64QAM	1	0	20.51	20.71	20.70		
15	64QAM	1	37	20.57	20.61	20.53	22	2
15	64QAM	1	74	20.61	20.53	20.52		
15	64QAM	36	0	19.61	19.79	19.65		
15	64QAM	36	20	19.61	19.59	19.59	21	3
15	64QAM	36	39	19.53	19.61	19.49		
15	64QAM	75	0	19.57	19.61	19.39		
15	256QAM	1	0	17.53	17.74	17.63		
15	256QAM	1	37	17.62	17.70	17.66	19	5
15	256QAM	1	74	17.65	17.62	17.61		
15	256QAM	36	0	17.45	17.59	17.51		
15	256QAM	36	20	17.60	17.62	17.63	19	5
15	256QAM	36	39	17.51	17.62	17.49		
15	256QAM	75	0	17.35	17.56	17.39		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	22.52	22.56	22.52		
10	QPSK	1	25	22.44	22.48	22.30	24	0
10	QPSK	1	49	22.42	22.50	22.39		
10	QPSK	25	0	21.66	21.72	21.46		
10	QPSK	25	12	21.56	21.50	21.44	23	1
10	QPSK	25	25	21.38	21.48	21.38		
10	QPSK	50	0	21.48	21.56	21.48		
10	16QAM	1	0	21.41	21.61	21.47		
10	16QAM	1	25	21.42	21.53	21.37	23	1
10	16QAM	1	49	21.47	21.44	21.51		
10	16QAM	25	0	20.57	20.59	20.52		
10	16QAM	25	12	20.57	20.54	20.50	22	2
10	16QAM	25	25	20.53	20.51	20.53		
10	16QAM	50	0	20.28	20.49	20.40		
10	64QAM	1	0	20.51	20.73	20.66		
10	64QAM	1	25	20.48	20.62	20.51	22	2
10	64QAM	1	49	20.58	20.52	20.47		
10	64QAM	25	0	19.56	19.74	19.62		
10	64QAM	25	12	19.66	19.58	19.52	21	3
10	64QAM	25	25	19.47	19.62	19.48		
10	64QAM	50	0	19.51	19.60	19.43		
10	256QAM	1	0	17.52	17.76	17.67		
10	256QAM	1	25	17.59	17.64	17.68	19	5
10	256QAM	1	49	17.59	17.67	17.63		
10	256QAM	25	0	17.44	17.55	17.47		
10	256QAM	25	12	17.62	17.64	17.62	19	5
10	256QAM	25	25	17.50	17.64	17.51		
10	256QAM	50	0	17.34	17.56	17.44		
Channel				131997	132322	132647	Tune-up	MPR



Frequency (MHz)				1712.5	1745	1777.5	limit (dBm)	(dB)
5	QPSK	1	0	22.58	22.63	22.47	24	0
5	QPSK	1	12	22.40	22.49	22.33		
5	QPSK	1	24	22.35	22.45	22.47		
5	QPSK	12	0	21.58	21.68	21.55	23	1
5	QPSK	12	7	21.58	21.49	21.46		
5	QPSK	12	13	21.36	21.47	21.41		
5	QPSK	25	0	21.55	21.58	21.50	23	1
5	16QAM	1	0	21.50	21.57	21.44		
5	16QAM	1	12	21.50	21.57	21.37		
5	16QAM	1	24	21.41	21.43	21.51	22	2
5	16QAM	12	0	20.66	20.65	20.51		
5	16QAM	12	7	20.56	20.55	20.51		
5	16QAM	12	13	20.57	20.49	20.50	22	2
5	16QAM	25	0	20.33	20.53	20.38		
5	64QAM	1	0	20.50	20.65	20.66		
5	64QAM	1	12	20.48	20.68	20.53	22	2
5	64QAM	1	24	20.64	20.49	20.53		
5	64QAM	12	0	19.62	19.79	19.60		
5	64QAM	12	7	19.64	19.60	19.59	21	3
5	64QAM	12	13	19.54	19.64	19.56		
5	64QAM	25	0	19.60	19.54	19.48		
5	256QAM	1	0	17.58	17.72	17.57	19	5
5	256QAM	1	12	17.57	17.68	17.66		
5	256QAM	1	24	17.56	17.63	17.53		
5	256QAM	12	0	17.50	17.59	17.45	19	5
5	256QAM	12	7	17.63	17.64	17.65		
5	256QAM	12	13	17.53	17.58	17.50		
5	256QAM	25	0	17.36	17.54	17.43	Tune-up limit (dBm)	MPR (dB)
Channel				131987	132322	132657		
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	22.56	22.60	22.47	24	0
3	QPSK	1	8	22.38	22.51	22.32		
3	QPSK	1	14	22.35	22.52	22.47		
3	QPSK	8	0	21.64	21.70	21.56	23	1
3	QPSK	8	4	21.54	21.56	21.46		
3	QPSK	8	7	21.43	21.48	21.38		
3	QPSK	15	0	21.51	21.58	21.53	23	1
3	16QAM	1	0	21.43	21.66	21.42		
3	16QAM	1	8	21.52	21.55	21.39		
3	16QAM	1	14	21.39	21.43	21.55	22	2
3	16QAM	8	0	20.58	20.57	20.56		
3	16QAM	8	4	20.61	20.59	20.59		
3	16QAM	8	7	20.53	20.54	20.44	22	2
3	16QAM	15	0	20.25	20.47	20.37		
3	64QAM	1	0	20.54	20.65	20.65		
3	64QAM	1	8	20.55	20.63	20.54	22	2



3	64QAM	1	14	20.62	20.43	20.49		
3	64QAM	8	0	19.61	19.72	19.64	21	3
3	64QAM	8	4	19.68	19.63	19.56		
3	64QAM	8	7	19.53	19.63	19.49		
3	64QAM	15	0	19.58	19.53	19.43		
3	256QAM	1	0	17.62	17.67	17.58	19	5
3	256QAM	1	8	17.59	17.72	17.67		
3	256QAM	1	14	17.62	17.62	17.57		
3	256QAM	8	0	17.45	17.58	17.50	19	5
3	256QAM	8	4	17.57	17.62	17.55		
3	256QAM	8	7	17.55	17.57	17.55		
3	256QAM	15	0	17.43	17.48	17.42		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	22.46	22.59	22.42	24	0
1.4	QPSK	1	3	22.38	22.45	22.40		
1.4	QPSK	1	5	22.41	22.40	22.31		
1.4	QPSK	3	0	22.46	22.54	22.41		
1.4	QPSK	3	1	22.41	22.37	22.37		
1.4	QPSK	3	3	22.31	22.39	22.34		
1.4	QPSK	6	0	21.48	21.69	21.53	23	1
1.4	16QAM	1	0	21.45	21.49	21.40	23	1
1.4	16QAM	1	3	21.35	21.42	21.35		
1.4	16QAM	1	5	21.45	21.63	21.40		
1.4	16QAM	3	0	21.48	21.49	21.46		
1.4	16QAM	3	1	21.37	21.51	21.35		
1.4	16QAM	3	3	21.31	21.46	21.41		
1.4	16QAM	6	0	20.59	20.53	20.58	22	2
1.4	64QAM	1	0	20.50	20.51	20.44	22	2
1.4	64QAM	1	3	20.39	20.48	20.38		
1.4	64QAM	1	5	20.25	20.40	20.41		
1.4	64QAM	3	0	20.43	20.64	20.67		
1.4	64QAM	3	1	20.45	20.63	20.45		
1.4	64QAM	3	3	20.45	20.53	20.36		
1.4	64QAM	6	0	19.50	19.68	19.53	21	3
1.4	256QAM	1	0	17.61	17.76	17.68	19	5
1.4	256QAM	1	3	17.69	17.74	17.63		
1.4	256QAM	1	5	17.57	17.66	17.63		
1.4	256QAM	3	0	17.51	17.59	17.51		
1.4	256QAM	3	1	17.55	17.61	17.64		
1.4	256QAM	3	3	17.52	17.65	17.54		
1.4	256QAM	6	0	17.43	17.57	17.39	19	5



Ant 2

Band 7 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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.32	22.51	22.35	23.4	0
20	QPSK	1	49	22.25	22.35	22.21		
20	QPSK	1	99	22.21	22.49	22.24		
20	QPSK	50	0	22.20	22.42	22.21	23.4	0
20	QPSK	50	24	22.22	22.31	22.07		
20	QPSK	50	50	22.04	22.33	22.14		
20	QPSK	100	0	22.21	22.38	22.24	23.4	0
20	16QAM	1	0	22.12	22.32	22.19		
20	16QAM	1	49	22.17	22.19	22.10		
20	16QAM	1	99	22.09	22.29	22.04	23	0.4
20	16QAM	50	0	21.75	21.89	21.70		
20	16QAM	50	24	21.75	21.79	21.61		
20	16QAM	50	50	21.61	21.79	21.71	23	0.4
20	16QAM	100	0	21.64	21.93	21.75		
20	64QAM	1	0	21.67	21.77	21.68		
20	64QAM	1	49	21.70	21.63	21.59	23	0.4
20	64QAM	1	99	21.58	21.84	21.60		
20	64QAM	50	0	20.78	20.96	20.70		
20	64QAM	50	24	20.80	20.74	20.52	22	1.4
20	64QAM	50	50	20.49	20.91	20.62		
20	64QAM	100	0	20.64	20.86	20.80		
20	256QAM	1	0	18.73	18.98	18.73	20	3.4
20	256QAM	1	49	18.69	18.77	18.57		
20	256QAM	1	99	18.48	18.77	18.62		
20	256QAM	50	0	18.78	18.83	18.72	20	3.4
20	256QAM	50	24	18.61	18.78	18.66		
20	256QAM	50	50	18.64	18.67	18.61		
20	256QAM	100	0	18.52	18.74	18.51		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.22	22.42	22.31	23.4	0
15	QPSK	1	37	22.16	22.23	22.13		
15	QPSK	1	74	22.17	22.43	22.12		
15	QPSK	36	0	22.08	22.39	22.07	23.4	0
15	QPSK	36	20	22.09	22.21	22.00		
15	QPSK	36	39	22.10	22.26	22.13		
15	QPSK	75	0	22.09	22.37	22.13	23.4	0
15	16QAM	1	0	22.06	22.31	22.17		
15	16QAM	1	37	22.16	22.03	22.09		
15	16QAM	1	74	21.96	22.14	21.91	23	0.4
15	16QAM	36	0	21.66	21.87	21.69		



15	16QAM	36	20	21.70	21.78	21.45		
15	16QAM	36	39	21.46	21.67	21.60		
15	16QAM	75	0	21.50	21.77	21.72		
15	64QAM	1	0	21.56	21.68	21.65	23	0.4
15	64QAM	1	37	21.69	21.57	21.56		
15	64QAM	1	74	21.43	21.71	21.54		
15	64QAM	36	0	20.71	20.87	20.67	22	1.4
15	64QAM	36	20	20.74	20.69	20.38		
15	64QAM	36	39	20.39	20.75	20.49		
15	64QAM	75	0	20.49	20.78	20.73		
15	256QAM	1	0	18.59	18.81	18.60	20	3.4
15	256QAM	1	37	18.61	18.71	18.55		
15	256QAM	1	74	18.41	18.65	18.61		
15	256QAM	36	0	18.66	18.71	18.66	20	3.4
15	256QAM	36	20	18.51	18.75	18.56		
15	256QAM	36	39	18.60	18.59	18.57		
15	256QAM	75	0	18.51	18.66	18.41		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.28	22.42	22.31	23.4	0
10	QPSK	1	25	22.10	22.26	22.14		
10	QPSK	1	49	22.06	22.47	22.10		
10	QPSK	25	0	22.09	22.31	22.07	23.4	0
10	QPSK	25	12	22.18	22.29	21.96		
10	QPSK	25	25	21.92	22.17	22.12		
10	QPSK	50	0	22.13	22.32	22.08	23.4	0
10	16QAM	1	0	22.10	22.15	22.09		
10	16QAM	1	25	22.13	22.08	21.99		
10	16QAM	1	49	22.03	22.18	21.89	23	0.4
10	16QAM	25	0	21.59	21.82	21.58		
10	16QAM	25	12	21.66	21.65	21.52		
10	16QAM	25	25	21.53	21.67	21.66		
10	16QAM	50	0	21.57	21.77	21.67	23	0.4
10	64QAM	1	0	21.59	21.74	21.53		
10	64QAM	1	25	21.67	21.48	21.49		
10	64QAM	1	49	21.42	21.82	21.54	22	1.4
10	64QAM	25	0	20.74	20.91	20.54		
10	64QAM	25	12	20.78	20.72	20.58		
10	64QAM	25	25	20.57	20.82	20.57		
10	64QAM	50	0	20.55	20.75	20.76	20	3.4
10	256QAM	1	0	18.63	18.82	18.62		
10	256QAM	1	25	18.52	18.68	18.55		
10	256QAM	1	49	18.34	18.69	18.51	20	3.4
10	256QAM	25	0	18.74	18.80	18.69		
10	256QAM	25	12	18.47	18.62	18.57		
10	256QAM	25	25	18.59	18.50	18.48		
10	256QAM	50	0	18.37	18.64	18.39		



Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.24	22.46	22.30	23.4	0
5	QPSK	1	12	22.23	22.29	22.09		
5	QPSK	1	24	22.06	22.48	22.20		
5	QPSK	12	0	22.15	22.36	22.18	23.4	0
5	QPSK	12	7	22.09	22.23	22.02		
5	QPSK	12	13	21.95	22.24	22.10		
5	QPSK	25	0	22.20	22.22	22.23		
5	16QAM	1	0	21.96	22.21	22.13	23.4	0
5	16QAM	1	12	22.11	22.08	21.94		
5	16QAM	1	24	22.05	22.28	21.91		
5	16QAM	12	0	21.65	21.75	21.54	23	0.4
5	16QAM	12	7	21.65	21.77	21.51		
5	16QAM	12	13	21.56	21.74	21.57		
5	16QAM	25	0	21.52	21.85	21.62		
5	64QAM	1	0	21.61	21.62	21.56	23	0.4
5	64QAM	1	12	21.56	21.50	21.47		
5	64QAM	1	24	21.54	21.68	21.48		
5	64QAM	12	0	20.65	20.91	20.59	22	1.4
5	64QAM	12	7	20.73	20.69	20.43		
5	64QAM	12	13	20.48	20.87	20.47		
5	64QAM	25	0	20.50	20.82	20.73		
5	256QAM	1	0	18.56	18.88	18.60	20	3.4
5	256QAM	1	12	18.57	18.76	18.45		
5	256QAM	1	24	18.42	18.60	18.46		
5	256QAM	12	0	18.63	18.68	18.66	20	3.4
5	256QAM	12	7	18.54	18.66	18.50		
5	256QAM	12	13	18.52	18.57	18.53		
5	256QAM	25	0	18.37	18.62	18.42		



Reduced Power Mode for DSI 2

Ant 0

Band 5 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.90	23.05	22.98	24	0
10	QPSK	1	25	22.84	22.89	22.77		
10	QPSK	1	49	22.87	22.95	22.84		
10	QPSK	25	0	22.05	22.10	22.00	23	1
10	QPSK	25	12	21.90	22.04	21.93		
10	QPSK	25	25	21.88	21.97	21.86		
10	QPSK	50	0	21.90	22.02	21.94	23	1
10	16QAM	1	0	21.81	21.95	21.91		
10	16QAM	1	25	21.86	21.90	21.82		
10	16QAM	1	49	21.82	21.92	21.81	22	2
10	16QAM	25	0	21.15	21.26	21.21		
10	16QAM	25	12	21.07	21.19	21.15		
10	16QAM	25	25	20.92	21.01	20.89	22	2
10	16QAM	50	0	21.12	21.22	21.10		
10	64QAM	1	0	21.06	21.15	21.08		
10	64QAM	1	25	20.97	21.09	20.96	22	2
10	64QAM	1	49	20.98	21.04	20.96		
10	64QAM	25	0	20.14	20.18	20.09		
10	64QAM	25	12	20.02	20.13	20.00	21	3
10	64QAM	25	25	19.92	20.06	19.95		
10	64QAM	50	0	19.97	20.11	20.06		
10	256QAM	1	0	18.12	18.16	18.03	19	5
10	256QAM	1	25	18.05	18.10	18.06		
10	256QAM	1	49	17.99	18.02	17.97		
10	256QAM	25	0	17.98	18.09	18.02	19	5
10	256QAM	25	12	17.95	18.03	17.92		
10	256QAM	25	25	17.89	17.99	17.87		
10	256QAM	50	0	17.86	17.94	17.80		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.87	22.93	22.88	24	0
5	QPSK	1	12	22.79	22.78	22.73		
5	QPSK	1	24	22.74	22.83	22.71		
5	QPSK	12	0	22.01	22.05	21.95	23	1
5	QPSK	12	7	21.84	21.96	21.86		
5	QPSK	12	13	21.75	21.88	21.75		
5	QPSK	25	0	21.85	21.92	21.88	23	1
5	16QAM	1	0	21.67	21.91	21.82		
5	16QAM	1	12	21.82	21.78	21.67		
5	16QAM	1	24	21.78	21.83	21.72		



5	16QAM	12	0	21.08	21.18	21.17	22	2
5	16QAM	12	7	21.03	21.07	21.08		
5	16QAM	12	13	20.87	20.89	20.83		
5	16QAM	25	0	21.08	21.07	21.02	22	2
5	64QAM	1	0	20.92	21.03	21.03		
5	64QAM	1	12	20.86	21.05	20.90		
5	64QAM	1	24	20.87	21.01	20.82	21	3
5	64QAM	12	0	20.09	20.10	20.02		
5	64QAM	12	7	19.94	20.03	19.95		
5	64QAM	12	13	19.81	19.95	19.83	19	5
5	64QAM	25	0	19.83	20.06	19.91		
5	256QAM	1	0	18.06	18.10	18.00		
5	256QAM	1	12	17.95	18.06	17.99	19	5
5	256QAM	1	24	17.96	17.90	17.88		
5	256QAM	12	0	17.86	18.02	17.88		
5	256QAM	12	7	17.83	17.90	17.86	19	5
5	256QAM	12	13	17.86	17.88	17.76		
5	256QAM	25	0	17.72	17.87	17.74		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.76	22.96	22.93	24	0
3	QPSK	1	8	22.70	22.75	22.68		
3	QPSK	1	14	22.73	22.81	22.70		
3	QPSK	8	0	22.00	22.04	21.91	23	1
3	QPSK	8	4	21.83	22.00	21.96		
3	QPSK	8	7	21.83	21.84	21.73		
3	QPSK	15	0	21.83	21.96	21.86	23	1
3	16QAM	1	0	21.77	21.84	21.77		
3	16QAM	1	8	21.83	21.81	21.67		
3	16QAM	1	14	21.73	21.82	21.69	22	2
3	16QAM	8	0	21.11	21.11	21.15		
3	16QAM	8	4	21.03	21.16	21.02		
3	16QAM	8	7	20.86	20.89	20.81	22	2
3	16QAM	15	0	20.99	21.17	20.97		
3	64QAM	1	0	20.94	21.08	21.01		
3	64QAM	1	8	20.88	21.01	20.88	21	3
3	64QAM	1	14	20.86	20.92	20.92		
3	64QAM	8	0	20.00	20.04	19.98		
3	64QAM	8	4	19.93	20.08	19.87	19	5
3	64QAM	8	7	19.79	20.00	19.92		
3	64QAM	15	0	19.84	20.06	20.02		
3	256QAM	1	0	18.00	18.08	17.93	19	5
3	256QAM	1	8	17.97	18.04	17.95		
3	256QAM	1	14	17.87	17.89	17.86		
3	256QAM	8	0	17.90	18.02	17.91	19	5
3	256QAM	8	4	17.91	17.89	17.82		
3	256QAM	8	7	17.84	17.91	17.78		



3	256QAM	15	0	17.77	17.82	17.75		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.83	22.99	22.84	24	0
1.4	QPSK	1	3	22.76	22.85	22.73		
1.4	QPSK	1	5	22.81	22.84	22.79		
1.4	QPSK	3	0	22.80	22.95	22.86		
1.4	QPSK	3	1	22.70	22.79	22.70		
1.4	QPSK	3	3	22.83	22.88	22.73		
1.4	QPSK	6	0	21.99	22.06	21.86	23	1
1.4	16QAM	1	0	21.84	22.00	21.88	23	1
1.4	16QAM	1	3	21.84	21.88	21.81		
1.4	16QAM	1	5	21.80	21.93	21.86		
1.4	16QAM	3	0	21.66	21.86	21.81		
1.4	16QAM	3	1	21.78	21.77	21.76		
1.4	16QAM	3	3	21.78	21.77	21.75		
1.4	16QAM	6	0	21.05	21.22	21.17	22	2
1.4	64QAM	1	0	20.98	21.06	21.09	22	2
1.4	64QAM	1	3	20.81	20.88	20.75		
1.4	64QAM	1	5	21.02	21.07	21.02		
1.4	64QAM	3	0	20.94	21.04	20.96		
1.4	64QAM	3	1	20.83	21.05	20.89		
1.4	64QAM	3	3	20.88	20.94	20.87		
1.4	64QAM	6	0	20.10	20.14	19.95	21	3
1.4	256QAM	1	0	17.99	18.02	17.92	19	5
1.4	256QAM	1	3	18.00	17.98	17.99		
1.4	256QAM	1	5	17.93	17.91	17.87		
1.4	256QAM	3	0	17.86	17.99	17.94		
1.4	256QAM	3	1	17.84	17.89	17.84		
1.4	256QAM	3	3	17.82	17.92	17.81		
1.4	256QAM	6	0	17.79	17.88	17.72	19	5



Band 13 Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23230						
Frequency (MHz)				782						
10	QPSK	1	0		22.93		24	0		
10	QPSK	1	25		22.74					
10	QPSK	1	49		22.83					
10	QPSK	25	0		22.02		23	1		
10	QPSK	25	12		21.95					
10	QPSK	25	25		21.92					
10	QPSK	50	0		21.93		23	1		
10	16QAM	1	0		21.84					
10	16QAM	1	25		21.80					
10	16QAM	1	49		21.75		22	2		
10	16QAM	25	0		21.21					
10	16QAM	25	12		21.10					
10	16QAM	25	25		20.92		22	2		
10	16QAM	50	0		21.14					
10	64QAM	1	0		21.00					
10	64QAM	1	25		20.99		22	2		
10	64QAM	1	49		20.90					
10	64QAM	25	0		20.11					
10	64QAM	25	12		20.07		21	3		
10	64QAM	25	25		19.92					
10	64QAM	50	0		20.00					
10	256QAM	1	0		18.17		19	5		
10	256QAM	1	25		18.12					
10	256QAM	1	49		18.04					
10	256QAM	25	0		18.00		19	5		
10	256QAM	25	12		17.97					
10	256QAM	25	25		17.93					
10	256QAM	50	0		17.88		19	5		
Channel				23205	23230	23255				
Frequency (MHz)				779.5	782	784.5				
5	QPSK	1	0	22.82	22.89	22.78	24	0		
5	QPSK	1	12	22.60	22.71	22.69				
5	QPSK	1	24	22.73	22.75	22.70				
5	QPSK	12	0	21.97	21.92	21.91	23	1		
5	QPSK	12	7	21.81	21.86	21.81				
5	QPSK	12	13	21.87	21.84	21.83				
5	QPSK	25	0	21.80	21.79	21.82	23	1		
5	16QAM	1	0	21.70	21.75	21.71				
5	16QAM	1	12	21.77	21.71	21.71				
5	16QAM	1	24	21.63	21.67	21.61	23	1		
5	16QAM	12	0	21.17	21.09	21.17				
5	16QAM	12	7	21.03	21.01	21.02				



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5	16QAM	12	13	20.79	20.85	20.84		
5	16QAM	25	0	21.06	21.10	21.05		
5	64QAM	1	0	20.94	20.89	20.96	22	2
5	64QAM	1	12	20.92	20.89	20.90		
5	64QAM	1	24	20.76	20.85	20.85		
5	64QAM	12	0	20.01	20.04	20.04	21	3
5	64QAM	12	7	19.98	20.00	19.93		
5	64QAM	12	13	19.85	19.79	19.87		
5	64QAM	25	0	19.87	19.92	19.89		
5	256QAM	1	0	18.07	18.14	18.05	19	5
5	256QAM	1	12	18.03	18.05	17.98		
5	256QAM	1	24	17.90	17.94	17.99		
5	256QAM	12	0	17.88	17.97	17.97	19	5
5	256QAM	12	7	17.86	17.85	17.92		
5	256QAM	12	13	17.82	17.79	17.88		
5	256QAM	25	0	17.73	17.75	17.85		



Band 17 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	23.17	23.25	23.11	24	0
10	QPSK	1	25	23.05	23.10	22.92		
10	QPSK	1	49	23.03	23.15	23.01		
10	QPSK	25	0	22.30	22.34	22.21	23	1
10	QPSK	25	12	22.17	22.29	22.22		
10	QPSK	25	25	22.13	22.17	22.02		
10	QPSK	50	0	22.15	22.21	22.20	23	1
10	16QAM	1	0	21.96	22.11	22.08		
10	16QAM	1	25	22.08	22.09	22.00		
10	16QAM	1	49	21.98	22.08	22.08	22	2
10	16QAM	25	0	21.38	21.48	21.44		
10	16QAM	25	12	21.32	21.41	21.41		
10	16QAM	25	25	21.28	21.36	21.34	22	2
10	16QAM	50	0	21.36	21.40	21.27		
10	64QAM	1	0	21.30	21.36	21.23		
10	64QAM	1	25	21.13	21.32	21.14	22	2
10	64QAM	1	49	21.24	21.28	21.23		
10	64QAM	25	0	20.29	20.44	20.27		
10	64QAM	25	12	20.19	20.33	20.21	21	3
10	64QAM	25	25	20.14	20.32	20.20		
10	64QAM	50	0	20.20	20.36	20.22		
10	256QAM	1	0	18.26	18.30	18.22	19	5
10	256QAM	1	25	18.19	18.24	18.16		
10	256QAM	1	49	18.06	18.17	18.03		
10	256QAM	25	0	18.16	18.23	18.14	19	5
10	256QAM	25	12	18.03	18.18	18.07		
10	256QAM	25	25	18.00	18.12	17.99		
10	256QAM	50	0	18.01	18.05	17.97		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.05	23.12	23.06	24	0
5	QPSK	1	12	22.98	23.05	22.89		
5	QPSK	1	24	22.96	23.01	22.96		
5	QPSK	12	0	22.20	22.26	22.14	23	1
5	QPSK	12	7	22.03	22.15	22.09		
5	QPSK	12	13	22.02	22.05	21.91		
5	QPSK	25	0	22.01	22.18	22.11	23	1
5	16QAM	1	0	21.87	22.00	21.94		
5	16QAM	1	12	21.93	22.05	21.97		
5	16QAM	1	24	21.92	21.99	21.99	22	2
5	16QAM	12	0	21.35	21.39	21.38		
5	16QAM	12	7	21.20	21.30	21.26		



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5	16QAM	12	13	21.20	21.27	21.25		
5	16QAM	25	0	21.23	21.29	21.20		
5	64QAM	1	0	21.27	21.27	21.11	22	2
5	64QAM	1	12	21.00	21.23	21.09		
5	64QAM	1	24	21.10	21.14	21.19		
5	64QAM	12	0	20.17	20.41	20.18	21	3
5	64QAM	12	7	20.05	20.20	20.12		
5	64QAM	12	13	20.09	20.20	20.16		
5	64QAM	25	0	20.07	20.31	20.13		
5	256QAM	1	0	18.18	18.25	18.09	19	5
5	256QAM	1	12	18.07	18.15	18.10		
5	256QAM	1	24	17.95	18.13	17.96		
5	256QAM	12	0	18.12	18.09	18.01	19	5
5	256QAM	12	7	17.93	18.03	17.99		
5	256QAM	12	13	17.86	18.00	17.93		
5	256QAM	25	0	17.94	17.97	17.85		



Band 71 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	683	688		
20	QPSK	1	0	22.85	22.91	22.79	24	0
20	QPSK	1	49	22.66	22.75	22.71		
20	QPSK	1	99	22.69	22.83	22.76		
20	QPSK	50	0	21.86	21.97	21.87	23	1
20	QPSK	50	24	21.76	21.84	21.81		
20	QPSK	50	50	21.69	21.77	21.71		
20	QPSK	100	0	21.84	21.92	21.80	23	1
20	16QAM	1	0	21.81	21.92	21.73		
20	16QAM	1	49	21.78	21.90	21.66		
20	16QAM	1	99	21.78	21.78	21.88	22	2
20	16QAM	50	0	20.90	20.94	20.92		
20	16QAM	50	24	20.91	20.86	20.87		
20	16QAM	50	50	20.81	20.84	20.76	22	2
20	16QAM	100	0	20.59	20.83	20.69		
20	64QAM	1	0	20.85	20.94	20.94		
20	64QAM	1	49	20.78	21.00	20.87	22	2
20	64QAM	1	99	20.93	20.76	20.83		
20	64QAM	50	0	19.94	20.06	19.90		
20	64QAM	50	24	19.95	19.91	19.88	21	3
20	64QAM	50	50	19.72	19.86	19.82		
20	64QAM	100	0	19.78	19.81	19.73		
20	256QAM	1	0	18.01	18.08	17.94	19	5
20	256QAM	1	49	17.92	18.01	17.91		
20	256QAM	1	99	17.82	17.94	17.82		
20	256QAM	50	0	17.76	17.90	17.81	19	5
20	256QAM	50	24	17.75	17.87	17.80		
20	256QAM	50	50	17.69	17.82	17.75		
20	256QAM	100	0	17.64	17.76	17.69		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	22.75	22.88	22.70	24	0
15	QPSK	1	37	22.62	22.65	22.66		
15	QPSK	1	74	22.56	22.79	22.67		
15	QPSK	36	0	21.78	21.82	21.77	23	1
15	QPSK	36	20	21.73	21.80	21.67		
15	QPSK	36	39	21.57	21.71	21.56		
15	QPSK	75	0	21.81	21.88	21.71	23	1
15	16QAM	1	0	21.68	21.79	21.61		
15	16QAM	1	37	21.74	21.85	21.52		
15	16QAM	1	74	21.73	21.72	21.85	22	2
15	16QAM	36	0	20.79	20.91	20.84		
15	16QAM	36	20	20.77	20.75	20.76		



15	16QAM	36	39	20.67	20.74	20.68		
15	16QAM	75	0	20.45	20.68	20.66		
15	64QAM	1	0	20.78	20.85	20.81	22	2
15	64QAM	1	37	20.63	20.92	20.80		
15	64QAM	1	74	20.83	20.64	20.74		
15	64QAM	36	0	19.81	20.00	19.83	21	3
15	64QAM	36	20	19.86	19.76	19.83		
15	64QAM	36	39	19.63	19.82	19.75		
15	64QAM	75	0	19.67	19.70	19.61		
15	256QAM	1	0	17.93	17.99	17.87	19	5
15	256QAM	1	37	17.89	17.94	17.82		
15	256QAM	1	74	17.73	17.82	17.78		
15	256QAM	36	0	17.66	17.85	17.77	19	5
15	256QAM	36	20	17.66	17.73	17.74		
15	256QAM	36	39	17.59	17.78	17.72		
15	256QAM	75	0	17.53	17.63	17.62		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	22.76	22.81	22.71	24	0
10	QPSK	1	25	22.53	22.65	22.59		
10	QPSK	1	49	22.57	22.78	22.70		
10	QPSK	25	0	21.73	21.90	21.84	23	1
10	QPSK	25	12	21.65	21.75	21.74		
10	QPSK	25	25	21.65	21.65	21.61		
10	QPSK	50	0	21.76	21.82	21.70		
10	16QAM	1	0	21.78	21.77	21.59	23	1
10	16QAM	1	25	21.63	21.77	21.54		
10	16QAM	1	49	21.69	21.71	21.81		
10	16QAM	25	0	20.83	20.83	20.84	22	2
10	16QAM	25	12	20.82	20.73	20.79		
10	16QAM	25	25	20.74	20.72	20.66		
10	16QAM	50	0	20.53	20.72	20.63		
10	64QAM	1	0	20.74	20.87	20.83	22	2
10	64QAM	1	25	20.71	20.96	20.82		
10	64QAM	1	49	20.78	20.70	20.78		
10	64QAM	25	0	19.80	19.98	19.80	21	3
10	64QAM	25	12	19.80	19.87	19.84		
10	64QAM	25	25	19.62	19.80	19.71		
10	64QAM	50	0	19.72	19.77	19.61		
10	256QAM	1	0	17.91	18.02	17.87	19	5
10	256QAM	1	25	17.88	17.91	17.85		
10	256QAM	1	49	17.73	17.88	17.79		
10	256QAM	25	0	17.62	17.76	17.77	19	5
10	256QAM	25	12	17.65	17.84	17.75		
10	256QAM	25	25	17.61	17.76	17.69		
10	256QAM	50	0	17.57	17.69	17.63		
Channel				133147	133247	133447	Tune-up	MPR



Frequency (MHz)				665.5	675.5	695.5	limit (dBm)	(dB)
5	QPSK	1	0	22.73	22.84	22.73	24	0
5	QPSK	1	12	22.53	22.62	22.56		
5	QPSK	1	24	22.56	22.68	22.63		
5	QPSK	12	0	21.78	21.90	21.84	23	1
5	QPSK	12	7	21.69	21.72	21.76		
5	QPSK	12	13	21.65	21.66	21.65		
5	QPSK	25	0	21.75	21.83	21.70	23	1
5	16QAM	1	0	21.76	21.83	21.59		
5	16QAM	1	12	21.65	21.78	21.55		
5	16QAM	1	24	21.73	21.65	21.78	22	2
5	16QAM	12	0	20.83	20.83	20.88		
5	16QAM	12	7	20.88	20.81	20.82		
5	16QAM	12	13	20.76	20.74	20.68	22	2
5	16QAM	25	0	20.46	20.70	20.56		
5	64QAM	1	0	20.74	20.87	20.79		
5	64QAM	1	12	20.71	20.93	20.74	21	3
5	64QAM	1	24	20.78	20.64	20.68		
5	64QAM	12	0	19.84	19.95	19.79		
5	64QAM	12	7	19.88	19.83	19.83	19	5
5	64QAM	12	13	19.63	19.80	19.76		
5	64QAM	25	0	19.71	19.72	19.66		
5	256QAM	1	0	17.89	17.94	17.80	19	5
5	256QAM	1	12	17.87	17.88	17.83		
5	256QAM	1	24	17.74	17.85	17.69		
5	256QAM	12	0	17.62	17.78	17.67	19	5
5	256QAM	12	7	17.64	17.76	17.76		
5	256QAM	12	13	17.55	17.70	17.60		
5	256QAM	25	0	17.60	17.71	17.59		



Ant 1

Band 2 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				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	22.43	22.49	22.37	24	0
20	QPSK	1	49	22.36	22.43	22.32		
20	QPSK	1	99	22.29	22.39	22.29		
20	QPSK	50	0	21.55	21.61	21.48	23	1
20	QPSK	50	24	21.42	21.55	21.51		
20	QPSK	50	50	21.40	21.47	21.33		
20	QPSK	100	0	21.45	21.51	21.43	23	1
20	16QAM	1	0	21.38	21.48	21.42		
20	16QAM	1	49	21.36	21.44	21.33		
20	16QAM	1	99	21.28	21.41	21.37	22	2
20	16QAM	50	0	20.55	20.59	20.50		
20	16QAM	50	24	20.49	20.53	20.43		
20	16QAM	50	50	20.44	20.48	20.39	22	2
20	16QAM	100	0	20.31	20.41	20.36		
20	64QAM	1	0	20.51	20.62	20.57		
20	64QAM	1	49	20.45	20.57	20.44	22	2
20	64QAM	1	99	20.42	20.51	20.38		
20	64QAM	50	0	19.50	19.63	19.56		
20	64QAM	50	24	19.49	19.56	19.53	21	3
20	64QAM	50	50	19.41	19.50	19.43		
20	64QAM	100	0	19.39	19.46	19.36		
20	256QAM	1	0	17.68	17.75	17.71	19	5
20	256QAM	1	49	17.63	17.71	17.57		
20	256QAM	1	99	17.52	17.64	17.54		
20	256QAM	50	0	17.61	17.67	17.56	19	5
20	256QAM	50	24	17.57	17.61	17.58		
20	256QAM	50	50	17.51	17.56	17.42		
20	256QAM	100	0	17.37	17.51	17.44		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	22.37	22.42	22.25	24	0
15	QPSK	1	37	22.27	22.31	22.22		
15	QPSK	1	74	22.26	22.33	22.25		
15	QPSK	36	0	21.51	21.54	21.43	23	1
15	QPSK	36	20	21.27	21.50	21.37		
15	QPSK	36	39	21.28	21.37	21.20		
15	QPSK	75	0	21.38	21.40	21.33	23	1
15	16QAM	1	0	21.34	21.38	21.31		
15	16QAM	1	37	21.25	21.39	21.30		
15	16QAM	1	74	21.16	21.36	21.28	23	1
15	16QAM	36	0	20.40	20.56	20.43		



15	16QAM	36	20	20.41	20.47	20.33		
15	16QAM	36	39	20.40	20.37	20.27		
15	16QAM	75	0	20.25	20.36	20.24		
15	64QAM	1	0	20.48	20.50	20.50		
15	64QAM	1	37	20.35	20.49	20.33	22	2
15	64QAM	1	74	20.31	20.43	20.30		
15	64QAM	36	0	19.40	19.53	19.47		
15	64QAM	36	20	19.44	19.46	19.44	21	3
15	64QAM	36	39	19.28	19.43	19.39		
15	64QAM	75	0	19.32	19.43	19.24		
15	256QAM	1	0	17.54	17.72	17.62		
15	256QAM	1	37	17.54	17.65	17.46	19	5
15	256QAM	1	74	17.42	17.53	17.47		
15	256QAM	36	0	17.47	17.55	17.48		
15	256QAM	36	20	17.43	17.51	17.45	19	5
15	256QAM	36	39	17.44	17.46	17.30		
15	256QAM	75	0	17.33	17.37	17.32		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	22.31	22.35	22.32		
10	QPSK	1	25	22.24	22.33	22.18	24	0
10	QPSK	1	49	22.23	22.30	22.18		
10	QPSK	25	0	21.49	21.55	21.34		
10	QPSK	25	12	21.33	21.49	21.42	23	1
10	QPSK	25	25	21.35	21.39	21.27		
10	QPSK	50	0	21.31	21.46	21.32		
10	16QAM	1	0	21.33	21.38	21.31		
10	16QAM	1	25	21.31	21.32	21.22	23	1
10	16QAM	1	49	21.20	21.26	21.30		
10	16QAM	25	0	20.43	20.46	20.45		
10	16QAM	25	12	20.40	20.47	20.34	22	2
10	16QAM	25	25	20.36	20.41	20.25		
10	16QAM	50	0	20.21	20.34	20.31		
10	64QAM	1	0	20.44	20.52	20.46		
10	64QAM	1	25	20.30	20.44	20.39	22	2
10	64QAM	1	49	20.35	20.41	20.24		
10	64QAM	25	0	19.36	19.51	19.42		
10	64QAM	25	12	19.39	19.48	19.48	21	3
10	64QAM	25	25	19.31	19.38	19.38		
10	64QAM	50	0	19.28	19.41	19.32		
10	256QAM	1	0	17.57	17.70	17.61		
10	256QAM	1	25	17.53	17.56	17.47	19	5
10	256QAM	1	49	17.39	17.59	17.42		
10	256QAM	25	0	17.52	17.60	17.45		
10	256QAM	25	12	17.43	17.47	17.48	19	5
10	256QAM	25	25	17.36	17.42	17.30		
10	256QAM	50	0	17.24	17.48	17.41		



Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	22.28	22.45	22.32	24	0
5	QPSK	1	12	22.26	22.36	22.29		
5	QPSK	1	24	22.25	22.36	22.19		
5	QPSK	12	0	21.48	21.56	21.44	23	1
5	QPSK	12	7	21.29	21.52	21.42		
5	QPSK	12	13	21.36	21.37	21.24		
5	QPSK	25	0	21.32	21.41	21.33	23	1
5	16QAM	1	0	21.27	21.38	21.33		
5	16QAM	1	12	21.30	21.39	21.26		
5	16QAM	1	24	21.18	21.31	21.30	22	2
5	16QAM	12	0	20.47	20.53	20.45		
5	16QAM	12	7	20.39	20.40	20.35		
5	16QAM	12	13	20.40	20.34	20.26	22	2
5	16QAM	25	0	20.17	20.29	20.31		
5	64QAM	1	0	20.42	20.52	20.46		
5	64QAM	1	12	20.41	20.52	20.40	22	2
5	64QAM	1	24	20.29	20.40	20.25		
5	64QAM	12	0	19.37	19.59	19.47		
5	64QAM	12	7	19.43	19.43	19.45	21	3
5	64QAM	12	13	19.37	19.38	19.33		
5	64QAM	25	0	19.29	19.42	19.31		
5	256QAM	1	0	17.64	17.68	17.63	19	5
5	256QAM	1	12	17.59	17.60	17.44		
5	256QAM	1	24	17.48	17.54	17.48		
5	256QAM	12	0	17.57	17.63	17.43	19	5
5	256QAM	12	7	17.47	17.53	17.53		
5	256QAM	12	13	17.41	17.53	17.30		
5	256QAM	25	0	17.27	17.42	17.34	19	5
5	256QAM	25	0	17.27	17.42	17.34		
5	256QAM	25	0	17.27	17.42	17.34		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	22.39	22.41	22.34	24	0
3	QPSK	1	8	22.24	22.30	22.20		
3	QPSK	1	14	22.15	22.28	22.23		
3	QPSK	8	0	21.44	21.53	21.42	23	1
3	QPSK	8	4	21.34	21.51	21.44		
3	QPSK	8	7	21.32	21.36	21.28		
3	QPSK	15	0	21.33	21.41	21.30	23	1
3	16QAM	1	0	21.33	21.45	21.27		
3	16QAM	1	8	21.26	21.33	21.25		
3	16QAM	1	14	21.18	21.28	21.24	22	2
3	16QAM	8	0	20.43	20.44	20.38		
3	16QAM	8	4	20.35	20.49	20.31		
3	16QAM	8	7	20.38	20.39	20.26	22	2
3	16QAM	15	0	20.24	20.27	20.27		
3	64QAM	1	0	20.43	20.59	20.46		



3	64QAM	1	8	20.35	20.50	20.34		
3	64QAM	1	14	20.34	20.48	20.32		
3	64QAM	8	0	19.43	19.56	19.52	21	3
3	64QAM	8	4	19.40	19.51	19.38		
3	64QAM	8	7	19.34	19.44	19.35		
3	64QAM	15	0	19.36	19.34	19.30		
3	256QAM	1	0	17.54	17.67	17.59		
3	256QAM	1	8	17.59	17.60	17.52	19	5
3	256QAM	1	14	17.48	17.58	17.44		
3	256QAM	8	0	17.53	17.62	17.43		
3	256QAM	8	4	17.49	17.55	17.49	19	5
3	256QAM	8	7	17.46	17.43	17.29		
3	256QAM	15	0	17.29	17.43	17.36		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	22.35	22.39	22.32	24	0
1.4	QPSK	1	3	22.25	22.33	22.25		
1.4	QPSK	1	5	22.15	22.24	22.15		
1.4	QPSK	3	0	22.31	22.37	22.28		
1.4	QPSK	3	1	22.31	22.28	22.25		
1.4	QPSK	3	3	22.14	22.29	22.26		
1.4	QPSK	6	0	21.52	21.53	21.34	23	1
1.4	16QAM	1	0	21.38	21.51	21.37	23	1
1.4	16QAM	1	3	21.34	21.43	21.29		
1.4	16QAM	1	5	21.31	21.39	21.31		
1.4	16QAM	3	0	21.35	21.42	21.34		
1.4	16QAM	3	1	21.22	21.32	21.23		
1.4	16QAM	3	3	21.24	21.28	21.25		
1.4	16QAM	6	0	20.40	20.51	20.47	22	2
1.4	64QAM	1	0	20.36	20.48	20.34	22	2
1.4	64QAM	1	3	20.32	20.40	20.35		
1.4	64QAM	1	5	20.23	20.36	20.25		
1.4	64QAM	3	0	20.37	20.53	20.53		
1.4	64QAM	3	1	20.42	20.48	20.40		
1.4	64QAM	3	3	20.37	20.48	20.31		
1.4	64QAM	6	0	19.37	19.55	19.50	21	3
1.4	256QAM	1	0	17.59	17.72	17.67	19	5
1.4	256QAM	1	3	17.53	17.62	17.54		
1.4	256QAM	1	5	17.45	17.56	17.50		
1.4	256QAM	3	0	17.50	17.60	17.50		
1.4	256QAM	3	1	17.43	17.56	17.45		
1.4	256QAM	3	3	17.41	17.46	17.36		
1.4	256QAM	6	0	17.30	17.42	17.36	19	5



Band 4 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				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	22.57	22.66	22.53	24	0
20	QPSK	1	49	22.46	22.51	22.44		
20	QPSK	1	99	22.45	22.54	22.42		
20	QPSK	50	0	21.61	21.74	21.60	23	1
20	QPSK	50	24	21.55	21.61	21.51		
20	QPSK	50	50	21.46	21.56	21.42		
20	QPSK	100	0	21.54	21.68	21.52	23	1
20	16QAM	1	0	21.55	21.60	21.51		
20	16QAM	1	49	21.43	21.58	21.47		
20	16QAM	1	99	21.44	21.50	21.53	22	2
20	16QAM	50	0	20.63	20.67	20.63		
20	16QAM	50	24	20.64	20.64	20.52		
20	16QAM	50	50	20.53	20.54	20.48	22	2
20	16QAM	100	0	20.36	20.47	20.49		
20	64QAM	1	0	20.58	20.74	20.70		
20	64QAM	1	49	20.57	20.71	20.55	22	2
20	64QAM	1	99	20.57	20.56	20.50		
20	64QAM	50	0	19.56	19.80	19.62		
20	64QAM	50	24	19.62	19.65	19.58	21	3
20	64QAM	50	50	19.53	19.63	19.60		
20	64QAM	100	0	19.54	19.60	19.48		
20	256QAM	1	0	17.73	17.77	17.69	19	5
20	256QAM	1	49	17.57	17.71	17.62		
20	256QAM	1	99	17.55	17.65	17.59		
20	256QAM	50	0	17.61	17.72	17.60	19	5
20	256QAM	50	24	17.60	17.66	17.57		
20	256QAM	50	50	17.55	17.62	17.59		
20	256QAM	100	0	17.54	17.59	17.49	19	5
Channel				20025	20175	20325		
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	22.45	22.51	22.40	24	0
15	QPSK	1	37	22.41	22.47	22.34		
15	QPSK	1	74	22.33	22.46	22.29		
15	QPSK	36	0	21.57	21.69	21.46	23	1
15	QPSK	36	20	21.49	21.52	21.52		
15	QPSK	36	39	21.34	21.55	21.27		
15	QPSK	75	0	21.45	21.55	21.42	23	1
15	16QAM	1	0	21.40	21.56	21.43		
15	16QAM	1	37	21.33	21.49	21.37		
15	16QAM	1	74	21.30	21.43	21.43	22	2
15	16QAM	36	0	20.53	20.63	20.51		
15	16QAM	36	20	20.61	20.58	20.45		



15	16QAM	36	39	20.44	20.48	20.36		
15	16QAM	75	0	20.30	20.40	20.34		
15	64QAM	1	0	20.52	20.69	20.57		
15	64QAM	1	37	20.50	20.63	20.41	22	2
15	64QAM	1	74	20.53	20.42	20.45		
15	64QAM	36	0	19.45	19.67	19.52		
15	64QAM	36	20	19.55	19.58	19.51	21	3
15	64QAM	36	39	19.48	19.49	19.48		
15	64QAM	75	0	19.44	19.50	19.40		
15	256QAM	1	0	17.60	17.69	17.57		
15	256QAM	1	37	17.52	17.61	17.57	19	5
15	256QAM	1	74	17.52	17.60	17.54		
15	256QAM	36	0	17.51	17.65	17.51		
15	256QAM	36	20	17.48	17.55	17.48	19	5
15	256QAM	36	39	17.50	17.51	17.46		
15	256QAM	75	0	17.50	17.54	17.41		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	22.43	22.60	22.49		
10	QPSK	1	25	22.39	22.43	22.35	24	0
10	QPSK	1	49	22.31	22.39	22.35		
10	QPSK	25	0	21.52	21.60	21.48		
10	QPSK	25	12	21.43	21.46	21.53	23	1
10	QPSK	25	25	21.40	21.48	21.32		
10	QPSK	50	0	21.46	21.65	21.40		
10	16QAM	1	0	21.49	21.45	21.38		
10	16QAM	1	25	21.33	21.53	21.40	23	1
10	16QAM	1	49	21.36	21.36	21.41		
10	16QAM	25	0	20.58	20.57	20.51		
10	16QAM	25	12	20.56	20.57	20.48	22	2
10	16QAM	25	25	20.45	20.46	20.36		
10	16QAM	50	0	20.28	20.38	20.35		
10	64QAM	1	0	20.52	20.70	20.65		
10	64QAM	1	25	20.47	20.59	20.46	22	2
10	64QAM	1	49	20.53	20.50	20.46		
10	64QAM	25	0	19.50	19.74	19.53		
10	64QAM	25	12	19.50	19.52	19.44	21	3
10	64QAM	25	25	19.47	19.57	19.50		
10	64QAM	50	0	19.48	19.59	19.36		
10	256QAM	1	0	17.66	17.71	17.57		
10	256QAM	1	25	17.43	17.62	17.53	19	5
10	256QAM	1	49	17.44	17.58	17.44		
10	256QAM	25	0	17.49	17.58	17.46		
10	256QAM	25	12	17.49	17.62	17.47	19	5
10	256QAM	25	25	17.43	17.48	17.45		
10	256QAM	50	0	17.48	17.51	17.43		
Channel				19975	20175	20375	Tune-up	MPR



Frequency (MHz)				1712.5	1732.5	1752.5	limit (dBm)	(dB)
5	QPSK	1	0	22.47	22.57	22.45	24	0
5	QPSK	1	12	22.33	22.45	22.34		
5	QPSK	1	24	22.41	22.42	22.31		
5	QPSK	12	0	21.56	21.66	21.53	23	1
5	QPSK	12	7	21.44	21.55	21.48		
5	QPSK	12	13	21.33	21.53	21.28		
5	QPSK	25	0	21.44	21.60	21.39	23	1
5	16QAM	1	0	21.50	21.46	21.47		
5	16QAM	1	12	21.30	21.51	21.44		
5	16QAM	1	24	21.33	21.37	21.45	22	2
5	16QAM	12	0	20.51	20.56	20.52		
5	16QAM	12	7	20.52	20.52	20.46		
5	16QAM	12	13	20.44	20.46	20.34	22	2
5	16QAM	25	0	20.27	20.41	20.41		
5	64QAM	1	0	20.54	20.61	20.67		
5	64QAM	1	12	20.50	20.56	20.50	22	2
5	64QAM	1	24	20.49	20.51	20.42		
5	64QAM	12	0	19.46	19.65	19.53		
5	64QAM	12	7	19.54	19.56	19.53	21	3
5	64QAM	12	13	19.42	19.54	19.48		
5	64QAM	25	0	19.43	19.57	19.43		
5	256QAM	1	0	17.60	17.71	17.58	19	5
5	256QAM	1	12	17.42	17.58	17.53		
5	256QAM	1	24	17.51	17.60	17.45		
5	256QAM	12	0	17.52	17.59	17.50	19	5
5	256QAM	12	7	17.54	17.61	17.44		
5	256QAM	12	13	17.44	17.58	17.50		
5	256QAM	25	0	17.42	17.47	17.39	19	5
Channel				19965	20175	20385		
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	22.49	22.52	22.45	24	0
3	QPSK	1	8	22.38	22.44	22.33		
3	QPSK	1	14	22.33	22.41	22.38		
3	QPSK	8	0	21.53	21.70	21.51	23	1
3	QPSK	8	4	21.46	21.56	21.51		
3	QPSK	8	7	21.34	21.58	21.38		
3	QPSK	15	0	21.46	21.65	21.41	23	1
3	16QAM	1	0	21.49	21.57	21.45		
3	16QAM	1	8	21.36	21.47	21.38		
3	16QAM	1	14	21.33	21.39	21.38	22	2
3	16QAM	8	0	20.54	20.53	20.50		
3	16QAM	8	4	20.60	20.59	20.37		
3	16QAM	8	7	20.43	20.43	20.43	22	2
3	16QAM	15	0	20.25	20.40	20.43		
3	64QAM	1	0	20.50	20.68	20.65		
3	64QAM	1	8	20.51	20.57	20.44	22	2



3	64QAM	1	14	20.42	20.45	20.42		
3	64QAM	8	0	19.46	19.66	19.54	21	3
3	64QAM	8	4	19.49	19.52	19.46		
3	64QAM	8	7	19.42	19.50	19.52		
3	64QAM	15	0	19.51	19.54	19.34		
3	256QAM	1	0	17.67	17.67	17.60	19	5
3	256QAM	1	8	17.52	17.66	17.58		
3	256QAM	1	14	17.42	17.57	17.51		
3	256QAM	8	0	17.54	17.61	17.51	19	5
3	256QAM	8	4	17.53	17.52	17.43		
3	256QAM	8	7	17.47	17.54	17.53		
3	256QAM	15	0	17.48	17.50	17.45		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	22.49	22.62	22.41	24	0
1.4	QPSK	1	3	22.31	22.36	22.36		
1.4	QPSK	1	5	22.33	22.48	22.37		
1.4	QPSK	3	0	22.43	22.55	22.50		
1.4	QPSK	3	1	22.34	22.47	22.41		
1.4	QPSK	3	3	22.35	22.42	22.36		
1.4	QPSK	6	0	21.57	21.63	21.54	23	1
1.4	16QAM	1	0	21.48	21.46	21.53	23	1
1.4	16QAM	1	3	21.39	21.54	21.35		
1.4	16QAM	1	5	21.47	21.54	21.48		
1.4	16QAM	3	0	21.44	21.57	21.39		
1.4	16QAM	3	1	21.29	21.54	21.36		
1.4	16QAM	3	3	21.32	21.44	21.45		
1.4	16QAM	6	0	20.56	20.55	20.58	22	2
1.4	64QAM	1	0	20.54	20.55	20.49	22	2
1.4	64QAM	1	3	20.44	20.47	20.40		
1.4	64QAM	1	5	20.23	20.37	20.35		
1.4	64QAM	3	0	20.55	20.69	20.57		
1.4	64QAM	3	1	20.47	20.59	20.51		
1.4	64QAM	3	3	20.48	20.50	20.38		
1.4	64QAM	6	0	19.52	19.69	19.57	21	3
1.4	256QAM	1	0	17.64	17.71	17.55	19	5
1.4	256QAM	1	3	17.45	17.67	17.53		
1.4	256QAM	1	5	17.50	17.58	17.45		
1.4	256QAM	3	0	17.55	17.66	17.51		
1.4	256QAM	3	1	17.47	17.53	17.42		
1.4	256QAM	3	3	17.48	17.55	17.47		
1.4	256QAM	6	0	17.48	17.49	17.36	19	5



Band 66 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				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	22.64	22.69	22.59	24	0
20	QPSK	1	49	22.50	22.56	22.44		
20	QPSK	1	99	22.48	22.57	22.52		
20	QPSK	50	0	21.69	21.76	21.61	23	1
20	QPSK	50	24	21.61	21.62	21.58		
20	QPSK	50	50	21.48	21.58	21.50		
20	QPSK	100	0	21.60	21.70	21.57		
20	16QAM	1	0	21.55	21.71	21.56	23	1
20	16QAM	1	49	21.55	21.65	21.48		
20	16QAM	1	99	21.53	21.53	21.62		
20	16QAM	50	0	20.70	20.69	20.65	22	2
20	16QAM	50	24	20.69	20.65	20.63		
20	16QAM	50	50	20.60	20.58	20.57		
20	16QAM	100	0	20.37	20.59	20.51		
20	64QAM	1	0	20.58	20.77	20.74	22	2
20	64QAM	1	49	20.61	20.76	20.61		
20	64QAM	1	99	20.67	20.58	20.57		
20	64QAM	50	0	19.68	19.85	19.71	21	3
20	64QAM	50	24	19.74	19.67	19.64		
20	64QAM	50	50	19.58	19.69	19.61		
20	64QAM	100	0	19.66	19.68	19.52		
20	256QAM	1	0	17.67	17.82	17.71	19	5
20	256QAM	1	49	17.72	17.78	17.74		
20	256QAM	1	99	17.69	17.73	17.67		
20	256QAM	50	0	17.58	17.66	17.59	19	5
20	256QAM	50	24	17.66	17.74	17.69		
20	256QAM	50	50	17.62	17.68	17.63		
20	256QAM	100	0	17.46	17.61	17.50		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	22.58	22.61	22.51	24	0
15	QPSK	1	37	22.36	22.45	22.38		
15	QPSK	1	74	22.43	22.50	22.39		
15	QPSK	36	0	21.57	21.66	21.51	23	1
15	QPSK	36	20	21.52	21.50	21.52		
15	QPSK	36	39	21.40	21.48	21.39		
15	QPSK	75	0	21.54	21.56	21.47		
15	16QAM	1	0	21.48	21.66	21.41	23	1
15	16QAM	1	37	21.45	21.55	21.40		
15	16QAM	1	74	21.48	21.39	21.56		
15	16QAM	36	0	20.58	20.60	20.58	22	2
15	16QAM	36	20	20.61	20.51	20.53		



15	16QAM	36	39	20.52	20.53	20.51		
15	16QAM	75	0	20.23	20.54	20.43		
15	64QAM	1	0	20.51	20.71	20.70	22	2
15	64QAM	1	37	20.57	20.61	20.53		
15	64QAM	1	74	20.61	20.53	20.52		
15	64QAM	36	0	19.61	19.79	19.65	21	3
15	64QAM	36	20	19.61	19.59	19.59		
15	64QAM	36	39	19.53	19.61	19.49		
15	64QAM	75	0	19.57	19.61	19.39		
15	256QAM	1	0	17.53	17.74	17.63	19	5
15	256QAM	1	37	17.62	17.70	17.66		
15	256QAM	1	74	17.65	17.62	17.61		
15	256QAM	36	0	17.45	17.59	17.51	19	5
15	256QAM	36	20	17.60	17.62	17.63		
15	256QAM	36	39	17.51	17.62	17.49		
15	256QAM	75	0	17.35	17.56	17.39		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	22.52	22.56	22.52	24	0
10	QPSK	1	25	22.44	22.48	22.30		
10	QPSK	1	49	22.42	22.50	22.39		
10	QPSK	25	0	21.66	21.72	21.46	23	1
10	QPSK	25	12	21.56	21.50	21.44		
10	QPSK	25	25	21.38	21.48	21.38		
10	QPSK	50	0	21.48	21.56	21.48		
10	16QAM	1	0	21.41	21.61	21.47	23	1
10	16QAM	1	25	21.42	21.53	21.37		
10	16QAM	1	49	21.47	21.44	21.51		
10	16QAM	25	0	20.57	20.59	20.52	22	2
10	16QAM	25	12	20.57	20.54	20.50		
10	16QAM	25	25	20.53	20.51	20.53		
10	16QAM	50	0	20.28	20.49	20.40		
10	64QAM	1	0	20.51	20.73	20.66	22	2
10	64QAM	1	25	20.48	20.62	20.51		
10	64QAM	1	49	20.58	20.52	20.47		
10	64QAM	25	0	19.56	19.74	19.62	21	3
10	64QAM	25	12	19.66	19.58	19.52		
10	64QAM	25	25	19.47	19.62	19.48		
10	64QAM	50	0	19.51	19.60	19.43		
10	256QAM	1	0	17.52	17.76	17.67	19	5
10	256QAM	1	25	17.59	17.64	17.68		
10	256QAM	1	49	17.59	17.67	17.63		
10	256QAM	25	0	17.44	17.55	17.47	19	5
10	256QAM	25	12	17.62	17.64	17.62		
10	256QAM	25	25	17.50	17.64	17.51		
10	256QAM	50	0	17.34	17.56	17.44		
Channel				131997	132322	132647	Tune-up	MPR



Frequency (MHz)				1712.5	1745	1777.5	limit (dBm)	(dB)
5	QPSK	1	0	22.58	22.63	22.47	24	0
5	QPSK	1	12	22.40	22.49	22.33		
5	QPSK	1	24	22.35	22.45	22.47		
5	QPSK	12	0	21.58	21.68	21.55	23	1
5	QPSK	12	7	21.58	21.49	21.46		
5	QPSK	12	13	21.36	21.47	21.41		
5	QPSK	25	0	21.55	21.58	21.50	23	1
5	16QAM	1	0	21.50	21.57	21.44		
5	16QAM	1	12	21.50	21.57	21.37		
5	16QAM	1	24	21.41	21.43	21.51	22	2
5	16QAM	12	0	20.66	20.65	20.51		
5	16QAM	12	7	20.56	20.55	20.51		
5	16QAM	12	13	20.57	20.49	20.50	22	2
5	16QAM	25	0	20.33	20.53	20.38		
5	64QAM	1	0	20.50	20.65	20.66		
5	64QAM	1	12	20.48	20.68	20.53	22	2
5	64QAM	1	24	20.64	20.49	20.53		
5	64QAM	12	0	19.62	19.79	19.60		
5	64QAM	12	7	19.64	19.60	19.59	21	3
5	64QAM	12	13	19.54	19.64	19.56		
5	64QAM	25	0	19.60	19.54	19.48		
5	256QAM	1	0	17.58	17.72	17.57	19	5
5	256QAM	1	12	17.57	17.68	17.66		
5	256QAM	1	24	17.56	17.63	17.53		
5	256QAM	12	0	17.50	17.59	17.45	19	5
5	256QAM	12	7	17.63	17.64	17.65		
5	256QAM	12	13	17.53	17.58	17.50		
5	256QAM	25	0	17.36	17.54	17.43	Tune-up limit (dBm)	MPR (dB)
Channel				131987	132322	132657		
Frequency (MHz)				1711.5	1745	1778.5	24	0
3	QPSK	1	0	22.56	22.60	22.47		
3	QPSK	1	8	22.38	22.51	22.32	23	1
3	QPSK	1	14	22.35	22.52	22.47		
3	QPSK	8	0	21.64	21.70	21.56		
3	QPSK	8	4	21.54	21.56	21.46	23	1
3	QPSK	8	7	21.43	21.48	21.38		
3	QPSK	15	0	21.51	21.58	21.53		
3	16QAM	1	0	21.43	21.66	21.42	23	1
3	16QAM	1	8	21.52	21.55	21.39		
3	16QAM	1	14	21.39	21.43	21.55		
3	16QAM	8	0	20.58	20.57	20.56	22	2
3	16QAM	8	4	20.61	20.59	20.59		
3	16QAM	8	7	20.53	20.54	20.44		
3	16QAM	15	0	20.25	20.47	20.37	22	2
3	64QAM	1	0	20.54	20.65	20.65		
3	64QAM	1	8	20.55	20.63	20.54		



3	64QAM	1	14	20.62	20.43	20.49		
3	64QAM	8	0	19.61	19.72	19.64	21	3
3	64QAM	8	4	19.68	19.63	19.56		
3	64QAM	8	7	19.53	19.63	19.49		
3	64QAM	15	0	19.58	19.53	19.43		
3	256QAM	1	0	17.62	17.67	17.58	19	5
3	256QAM	1	8	17.59	17.72	17.67		
3	256QAM	1	14	17.62	17.62	17.57		
3	256QAM	8	0	17.45	17.58	17.50	19	5
3	256QAM	8	4	17.57	17.62	17.55		
3	256QAM	8	7	17.55	17.57	17.55		
3	256QAM	15	0	17.43	17.48	17.42		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	22.46	22.59	22.42	24	0
1.4	QPSK	1	3	22.38	22.45	22.40		
1.4	QPSK	1	5	22.41	22.40	22.31		
1.4	QPSK	3	0	22.46	22.54	22.41		
1.4	QPSK	3	1	22.41	22.37	22.37		
1.4	QPSK	3	3	22.31	22.39	22.34		
1.4	QPSK	6	0	21.48	21.69	21.53	23	1
1.4	16QAM	1	0	21.45	21.49	21.40	23	1
1.4	16QAM	1	3	21.35	21.42	21.35		
1.4	16QAM	1	5	21.45	21.63	21.40		
1.4	16QAM	3	0	21.48	21.49	21.46		
1.4	16QAM	3	1	21.37	21.51	21.35		
1.4	16QAM	3	3	21.31	21.46	21.41		
1.4	16QAM	6	0	20.59	20.53	20.58	22	2
1.4	64QAM	1	0	20.50	20.51	20.44	22	2
1.4	64QAM	1	3	20.39	20.48	20.38		
1.4	64QAM	1	5	20.25	20.40	20.41		
1.4	64QAM	3	0	20.43	20.64	20.67		
1.4	64QAM	3	1	20.45	20.63	20.45		
1.4	64QAM	3	3	20.45	20.53	20.36		
1.4	64QAM	6	0	19.50	19.68	19.53	21	3
1.4	256QAM	1	0	17.61	17.76	17.68	19	5
1.4	256QAM	1	3	17.69	17.74	17.63		
1.4	256QAM	1	5	17.57	17.66	17.63		
1.4	256QAM	3	0	17.51	17.59	17.51		
1.4	256QAM	3	1	17.55	17.61	17.64		
1.4	256QAM	3	3	17.52	17.65	17.54		
1.4	256QAM	6	0	17.43	17.57	17.39	19	5



Ant 2

Band 7 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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.86	23.95	23.78	25	0
20	QPSK	1	49	23.69	23.73	23.66		
20	QPSK	1	99	23.71	23.77	23.70		
20	QPSK	50	0	22.94	22.95	22.80	24	1
20	QPSK	50	24	22.83	22.77	22.75		
20	QPSK	50	50	22.65	22.81	22.70		
20	QPSK	100	0	22.86	22.89	22.79	24	1
20	16QAM	1	0	22.70	22.91	22.83		
20	16QAM	1	49	22.74	22.81	22.67		
20	16QAM	1	99	22.77	22.71	22.82	23	2
20	16QAM	50	0	21.88	21.87	21.82		
20	16QAM	50	24	21.85	21.86	21.88		
20	16QAM	50	50	21.81	21.82	21.75	23	2
20	16QAM	100	0	21.60	21.82	21.68		
20	16QAM	100	0	21.60	21.82	21.68		
20	64QAM	1	0	21.75	21.94	21.93	23	2
20	64QAM	1	49	21.80	22.00	21.80		
20	64QAM	1	99	21.87	21.78	21.75		
20	64QAM	50	0	20.85	21.10	20.96	22	3
20	64QAM	50	24	20.99	20.93	20.88		
20	64QAM	50	50	20.82	20.95	20.86		
20	64QAM	100	0	20.91	20.86	20.69	20	5
20	256QAM	1	0	19.18	19.21	19.09		
20	256QAM	1	49	19.07	19.16	19.11		
20	256QAM	1	99	19.05	19.09	19.00	20	5
20	256QAM	50	0	19.01	19.05	18.99		
20	256QAM	50	24	18.89	18.98	18.91		
20	256QAM	50	50	18.79	18.92	18.87	20	5
20	256QAM	100	0	18.78	18.86	18.72		
20	256QAM	100	0	18.78	18.86	18.72		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.74	23.88	23.71	25	0
15	QPSK	1	37	23.64	23.65	23.56		
15	QPSK	1	74	23.67	23.65	23.62		
15	QPSK	36	0	22.84	22.86	22.73	24	1
15	QPSK	36	20	22.79	22.69	22.72		
15	QPSK	36	39	22.54	22.67	22.60		
15	QPSK	75	0	22.74	22.78	22.66	24	1
15	16QAM	1	0	22.57	22.84	22.69		
15	16QAM	1	37	22.67	22.66	22.59		
15	16QAM	1	74	22.68	22.64	22.78	24	1
15	16QAM	36	0	21.75	21.81	21.73		



15	16QAM	36	20	21.70	21.83	21.77		
15	16QAM	36	39	21.70	21.75	21.68		
15	16QAM	75	0	21.45	21.74	21.59		
15	64QAM	1	0	21.62	21.91	21.90		
15	64QAM	1	37	21.73	21.85	21.72	23	2
15	64QAM	1	74	21.80	21.66	21.67		
15	64QAM	36	0	20.81	21.05	20.89		
15	64QAM	36	20	20.85	20.82	20.76	22	3
15	64QAM	36	39	20.75	20.91	20.76		
15	64QAM	75	0	20.79	20.78	20.62		
15	256QAM	1	0	19.05	19.10	19.01		
15	256QAM	1	37	18.95	19.03	19.04	20	5
15	256QAM	1	74	18.92	19.03	18.91		
15	256QAM	36	0	18.86	18.92	18.86		
15	256QAM	36	20	18.78	18.84	18.78	20	5
15	256QAM	36	39	18.71	18.87	18.81		
15	256QAM	75	0	18.70	18.82	18.60		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.72	23.83	23.74		
10	QPSK	1	25	23.55	23.60	23.55	25	0
10	QPSK	1	49	23.61	23.73	23.60		
10	QPSK	25	0	22.83	22.87	22.68		
10	QPSK	25	12	22.71	22.66	22.63	24	1
10	QPSK	25	25	22.55	22.76	22.57		
10	QPSK	50	0	22.80	22.84	22.74		
10	16QAM	1	0	22.56	22.83	22.76		
10	16QAM	1	25	22.65	22.76	22.56	24	1
10	16QAM	1	49	22.73	22.66	22.77		
10	16QAM	25	0	21.83	21.79	21.75		
10	16QAM	25	12	21.79	21.74	21.85	23	2
10	16QAM	25	25	21.67	21.72	21.70		
10	16QAM	50	0	21.47	21.75	21.61		
10	64QAM	1	0	21.69	21.87	21.89		
10	64QAM	1	25	21.73	21.90	21.76	23	2
10	64QAM	1	49	21.83	21.63	21.68		
10	64QAM	25	0	20.80	20.98	20.88		
10	64QAM	25	12	20.89	20.89	20.78	22	3
10	64QAM	25	25	20.79	20.83	20.80		
10	64QAM	50	0	20.77	20.79	20.57		
10	256QAM	1	0	19.09	19.15	18.97		
10	256QAM	1	25	19.03	19.13	18.98	20	5
10	256QAM	1	49	18.94	19.05	18.92		
10	256QAM	25	0	18.94	19.01	18.92		
10	256QAM	25	12	18.80	18.88	18.86	20	5
10	256QAM	25	25	18.68	18.78	18.83		
10	256QAM	50	0	18.73	18.74	18.63		



Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	23.74	23.90	23.66	25	0
5	QPSK	1	12	23.58	23.64	23.54		
5	QPSK	1	24	23.59	23.72	23.66		
5	QPSK	12	0	22.81	22.81	22.67	24	1
5	QPSK	12	7	22.74	22.69	22.62		
5	QPSK	12	13	22.52	22.72	22.66		
5	QPSK	25	0	22.77	22.77	22.66	24	1
5	16QAM	1	0	22.55	22.86	22.73		
5	16QAM	1	12	22.60	22.78	22.57		
5	16QAM	1	24	22.64	22.56	22.75	23	2
5	16QAM	12	0	21.81	21.75	21.70		
5	16QAM	12	7	21.80	21.74	21.78		
5	16QAM	12	13	21.68	21.70	21.63	23	2
5	16QAM	25	0	21.47	21.74	21.57		
5	64QAM	1	0	21.71	21.90	21.83		
5	64QAM	1	12	21.77	21.86	21.66	22	3
5	64QAM	1	24	21.74	21.70	21.65		
5	64QAM	12	0	20.76	21.03	20.86		
5	64QAM	12	7	20.94	20.78	20.78	20	5
5	64QAM	12	13	20.76	20.81	20.77		
5	64QAM	25	0	20.77	20.73	20.55		
5	256QAM	1	0	19.07	19.12	18.96	20	5
5	256QAM	1	12	18.96	19.12	19.04		
5	256QAM	1	24	18.91	18.97	18.92		
5	256QAM	12	0	18.88	18.95	18.89	20	5
5	256QAM	12	7	18.81	18.93	18.87		
5	256QAM	12	13	18.72	18.83	18.73		
5	256QAM	25	0	18.70	18.77	18.61		

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- a. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- b. "special subframe S" contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- c. Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

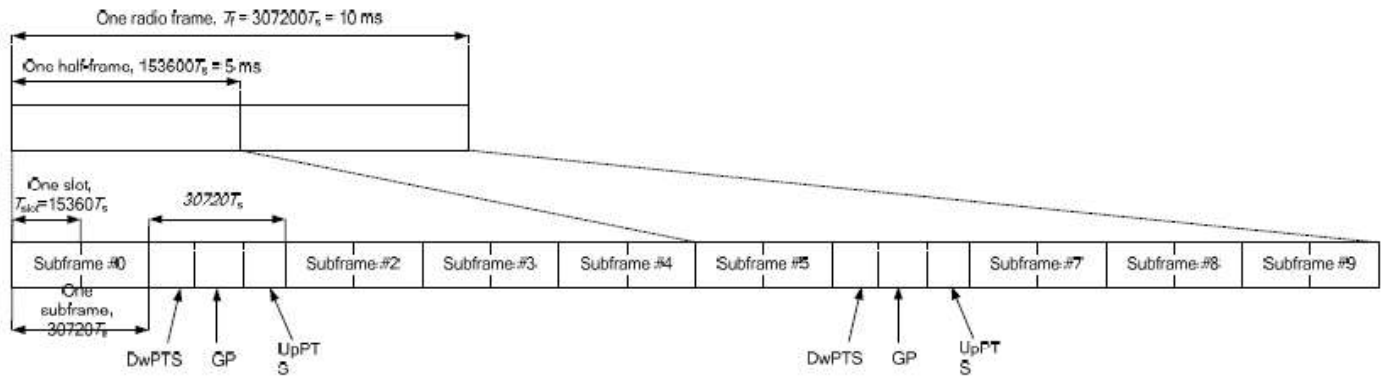


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	6592 · Ts	2192 · Ts	2560 · Ts	7680 · Ts	2192 · Ts	2560 · Ts
1	19760 · Ts			20480 · Ts		
2	21952 · Ts			23040 · Ts		
3	24144 · Ts			25600 · Ts		
4	26336 · Ts	4384 · Ts	5120 · Ts	7680 · Ts	4384 · Ts	5120 · Ts
5	6592 · Ts			20480 · Ts		
6	19760 · Ts			23040 · Ts		
7	21952 · Ts			12800 · Ts		
8	24144 · Ts	-	-	-	-	-
9	13168 · Ts	-	-	-	-	-

Special subframe (30720·T_s): Normal cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~4	7.13%	8.33%
	5~9	14.3%	16.7%

Special subframe(30720·T_s): Extended cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~3	7.13%	8.33%
	4~7	14.3%	16.7%

The highest duty factor is resulted from:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.



Default Power Mode

Ant 2

Band 38 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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	23.05	23.13	23.07	24	0
20	QPSK	1	49	22.92	22.98	22.83		
20	QPSK	1	99	22.86	23.01	22.96		
20	QPSK	50	0	22.17	22.20	22.09	23	1
20	QPSK	50	24	22.10	22.04	22.02		
20	QPSK	50	50	21.91	21.97	21.92		
20	16QAM	1	0	21.98	22.13	21.96	23	1
20	16QAM	1	49	22.00	22.10	21.91		
20	16QAM	1	99	21.95	22.00	22.00		
20	16QAM	50	0	21.18	21.11	21.14	22	2
20	16QAM	50	24	21.15	21.10	21.02		
20	16QAM	50	50	21.01	21.08	21.02		
20	16QAM	100	0	20.86	21.07	20.95	22	2
20	64QAM	1	0	21.00	21.22	21.20		
20	64QAM	1	49	21.09	21.17	21.05		
20	64QAM	1	99	21.11	20.96	21.00	21	3
20	64QAM	50	0	20.13	20.29	20.19		
20	64QAM	50	24	20.15	20.07	20.02		
20	64QAM	50	50	20.06	20.10	20.07	19	5
20	256QAM	1	0	18.25	18.29	18.21		
20	256QAM	1	49	18.09	18.24	18.19		
20	256QAM	1	99	18.07	18.17	18.08	19	5
20	256QAM	50	0	18.15	18.21	18.17		
20	256QAM	50	24	18.04	18.18	18.05		
20	256QAM	50	50	18.06	18.12	18.01	23	1
20	256QAM	100	0	17.95	18.06	17.98		
20	256QAM	100	0	17.95	18.06	17.98		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.99	23.05	22.94		
15	QPSK	1	37	22.85	22.87	22.75	24	0
15	QPSK	1	74	22.74	22.90	22.85		
15	QPSK	36	0	22.13	22.12	21.96		
15	QPSK	36	20	22.04	21.89	21.94	23	1
15	QPSK	36	39	21.87	21.88	21.86		
15	QPSK	75	0	21.93	22.09	21.94		
15	16QAM	1	0	21.94	22.02	21.90	23	1
15	16QAM	1	37	21.89	22.03	21.79		
15	16QAM	1	74	21.82	21.86	21.90		



15	16QAM	36	0	21.08	21.08	21.01	22	2
15	16QAM	36	20	21.01	20.98	20.99		
15	16QAM	36	39	20.86	20.98	20.90		
15	16QAM	75	0	20.82	21.02	20.82	22	2
15	64QAM	1	0	20.92	21.17	21.17		
15	64QAM	1	37	20.99	21.12	20.90		
15	64QAM	1	74	21.04	20.86	20.95	21	3
15	64QAM	36	0	20.01	20.25	20.14		
15	64QAM	36	20	20.03	19.94	19.90		
15	64QAM	36	39	20.01	20.02	19.95	19	5
15	64QAM	75	0	20.01	19.99	19.92		
15	256QAM	1	0	18.10	18.25	18.17		
15	256QAM	1	37	17.95	18.18	18.11	19	5
15	256QAM	1	74	17.95	18.06	18.02		
15	256QAM	36	0	18.12	18.15	18.05		
15	256QAM	36	20	17.99	18.11	17.96	19	5
15	256QAM	36	39	17.93	18.08	17.91		
15	256QAM	75	0	17.87	17.91	17.93		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.95	23.10	22.98	24	0
10	QPSK	1	25	22.81	22.83	22.72		
10	QPSK	1	49	22.76	22.89	22.87		
10	QPSK	25	0	22.12	22.16	22.05	23	1
10	QPSK	25	12	22.04	21.99	21.91		
10	QPSK	25	25	21.87	21.84	21.83		
10	QPSK	50	0	21.95	22.05	21.89	23	1
10	16QAM	1	0	21.85	22.02	21.84		
10	16QAM	1	25	21.88	22.01	21.82		
10	16QAM	1	49	21.81	21.87	21.91	22	2
10	16QAM	25	0	21.14	21.07	21.00		
10	16QAM	25	12	21.07	21.03	20.98		
10	16QAM	25	25	20.87	20.96	20.95	22	2
10	16QAM	50	0	20.74	20.95	20.88		
10	64QAM	1	0	20.88	21.14	21.14		
10	64QAM	1	25	20.97	21.10	20.95	22	2
10	64QAM	1	49	20.99	20.84	20.88		
10	64QAM	25	0	20.08	20.15	20.15		
10	64QAM	25	12	20.01	19.96	19.99	21	3
10	64QAM	25	25	19.93	20.00	20.02		
10	64QAM	50	0	20.05	20.08	19.92		
10	256QAM	1	0	18.15	18.20	18.12	19	5
10	256QAM	1	25	17.99	18.16	18.05		
10	256QAM	1	49	18.00	18.05	17.94		
10	256QAM	25	0	18.08	18.14	18.03	19	5
10	256QAM	25	12	17.99	18.05	18.02		
10	256QAM	25	25	17.94	18.04	17.91		
10	256QAM	50	0	17.84	17.94	17.92	19	5



Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	22.91	22.99	22.94	24	0
5	QPSK	1	12	22.86	22.89	22.70		
5	QPSK	1	24	22.75	22.90	22.89		
5	QPSK	12	0	22.12	22.09	22.00	23	1
5	QPSK	12	7	21.97	21.99	21.97		
5	QPSK	12	13	21.76	21.90	21.80		
5	QPSK	25	0	21.99	22.10	21.92		
5	16QAM	1	0	21.93	22.03	21.83	23	1
5	16QAM	1	12	21.94	22.03	21.79		
5	16QAM	1	24	21.89	21.90	21.87		
5	16QAM	12	0	21.04	21.01	21.01	22	2
5	16QAM	12	7	21.02	21.01	20.92		
5	16QAM	12	13	20.87	21.02	20.90		
5	16QAM	25	0	20.74	21.01	20.85		
5	64QAM	1	0	20.89	21.09	21.09	22	2
5	64QAM	1	12	21.04	21.13	20.94		
5	64QAM	1	24	21.03	20.84	20.93		
5	64QAM	12	0	20.04	20.17	20.14	21	3
5	64QAM	12	7	20.08	19.93	19.94		
5	64QAM	12	13	19.98	20.05	20.02		
5	64QAM	25	0	20.06	20.06	19.92		
5	256QAM	1	0	18.20	18.25	18.18	19	5
5	256QAM	1	12	17.99	18.14	18.07		
5	256QAM	1	24	17.93	18.11	17.95		
5	256QAM	12	0	18.09	18.13	18.10	19	5
5	256QAM	12	7	18.00	18.04	17.93		
5	256QAM	12	13	17.92	18.00	17.92		
5	256QAM	25	0	17.85	18.01	17.94		



Band 41 Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.98	22.94	23.16	23.09	23.01	24	0
20	QPSK	1	49	22.88	22.84	22.97	22.85	22.81		
20	QPSK	1	99	22.82	22.88	23.06	22.95	22.92		
20	QPSK	50	0	22.08	21.99	22.23	22.14	22.07	23	1
20	QPSK	50	24	21.95	21.91	22.09	21.97	21.95		
20	QPSK	50	50	22.02	21.92	22.16	22.01	21.97		
20	QPSK	100	0	21.97	21.93	22.13	21.99	21.92	23	1
20	16QAM	1	0	21.82	21.91	22.04	21.92	21.90		
20	16QAM	1	49	21.88	21.89	22.03	21.96	21.88		
20	16QAM	1	99	21.82	21.82	21.97	21.85	21.80	22	2
20	16QAM	50	0	21.24	21.33	21.45	21.35	21.22		
20	16QAM	50	24	21.18	21.26	21.33	21.18	21.24		
20	16QAM	50	50	21.13	21.07	21.27	21.21	21.14	22	2
20	16QAM	100	0	21.19	21.27	21.43	21.35	21.29		
20	64QAM	1	0	21.11	21.11	21.30	21.24	21.07		
20	64QAM	1	49	21.12	21.04	21.25	21.14	21.06	21	3
20	64QAM	1	99	21.03	21.04	21.20	21.07	20.98		
20	64QAM	50	0	20.22	20.23	20.40	20.34	20.16		
20	64QAM	50	24	20.17	20.11	20.33	20.24	20.14	19	5
20	64QAM	50	50	20.10	20.06	20.26	20.21	20.01		
20	64QAM	100	0	20.02	19.96	20.20	20.12	19.99		
20	256QAM	1	0	18.20	18.12	18.27	18.16	18.24	19	5
20	256QAM	1	49	18.18	18.13	18.22	18.19	18.17		
20	256QAM	1	99	18.10	18.06	18.18	18.14	18.14		
20	256QAM	50	0	18.19	18.13	18.24	18.17	18.18	24	0
20	256QAM	50	24	18.10	18.14	18.19	18.16	18.10		
20	256QAM	50	50	18.08	18.07	18.16	18.11	18.09		
20	256QAM	100	0	18.03	17.97	18.10	17.98	17.99	23	1
15	QPSK	36	0	21.96	21.90	22.17	22.08	22.00		
15	QPSK	36	20	21.88	21.81	22.04	21.86	21.90		
15	QPSK	36	39	21.89	21.78	22.06	21.87	21.84	23	1
15	QPSK	75	0	21.92	21.87	22.04	21.87	21.77		
15	16QAM	1	0	21.74	21.77	21.90	21.82	21.85		
15	16QAM	1	37	21.79	21.85	21.90	21.87	21.75	22	2
15	16QAM	1	74	21.69	21.74	21.88	21.74	21.69		
15	16QAM	36	0	21.12	21.28	21.38	21.20	21.10		
15	16QAM	36	20	21.11	21.13	21.25	21.09	21.18		



15	16QAM	36	39	21.08	20.97	21.22	21.15	21.00		
15	16QAM	75	0	21.11	21.17	21.31	21.21	21.15		
15	64QAM	1	0	21.02	20.97	21.16	21.11	20.99	22	2
15	64QAM	1	37	21.00	20.90	21.12	21.00	20.99		
15	64QAM	1	74	20.93	20.92	21.11	20.98	20.90		
15	64QAM	36	0	20.13	20.14	20.32	20.22	20.02	21	3
15	64QAM	36	20	20.10	20.02	20.21	20.21	20.00		
15	64QAM	36	39	20.03	20.00	20.15	20.15	19.98		
15	64QAM	75	0	19.93	19.86	20.06	20.08	19.96		
15	256QAM	1	0	18.07	18.06	18.22	18.11	18.10	19	5
15	256QAM	1	37	18.15	18.09	18.09	18.11	18.13		
15	256QAM	1	74	18.05	17.98	18.04	18.02	18.06		
15	256QAM	36	0	18.11	18.06	18.18	18.04	18.08	19	5
15	256QAM	36	20	18.05	18.07	18.09	18.13	17.97		
15	256QAM	36	39	18.01	18.01	18.02	18.00	17.98		
15	256QAM	75	0	17.96	17.87	18.03	17.91	17.92		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.93	22.88	23.06	23.03	22.95	24.00	0
10	QPSK	1	25	22.74	22.76	22.93	22.76	22.67		
10	QPSK	1	49	22.70	22.81	23.00	22.83	22.81		
10	QPSK	25	0	22.04	21.96	22.13	22.01	21.97	23	1
10	QPSK	25	12	21.87	21.77	22.02	21.84	21.89		
10	QPSK	25	25	21.98	21.86	22.01	21.92	21.90		
10	QPSK	50	0	21.86	21.82	22.06	21.92	21.86		
10	16QAM	1	0	21.71	21.86	22.00	21.85	21.76	23	1
10	16QAM	1	25	21.82	21.75	21.92	21.85	21.78		
10	16QAM	1	49	21.74	21.67	21.88	21.78	21.74		
10	16QAM	25	0	21.21	21.22	21.39	21.31	21.14	22	2
10	16QAM	25	12	21.07	21.21	21.27	21.12	21.18		
10	16QAM	25	25	21.03	21.07	21.21	21.14	21.03		
10	16QAM	50	0	21.06	21.21	21.38	21.28	21.18		
10	64QAM	1	0	20.98	21.05	21.16	21.21	20.96	22	2
10	64QAM	1	25	21.08	20.92	21.22	20.99	20.94		
10	64QAM	1	49	20.98	20.93	21.05	20.95	20.88		
10	64QAM	25	0	20.10	20.12	20.29	20.24	20.12	21	3
10	64QAM	25	12	20.10	19.99	20.21	20.14	20.01		
10	64QAM	25	25	20.01	19.94	20.13	20.14	19.86		
10	64QAM	50	0	19.92	19.90	20.07	20.04	19.94		
10	256QAM	1	0	18.17	18.06	18.19	18.12	18.15	19	5
10	256QAM	1	25	18.13	18.00	18.18	18.08	18.02		
10	256QAM	1	49	18.03	17.96	18.11	18.01	18.11		
10	256QAM	25	0	18.10	18.01	18.12	18.03	18.07	19	5
10	256QAM	25	12	17.96	18.07	18.06	18.05	17.99		
10	256QAM	25	25	17.97	17.99	18.09	18.04	18.02		
10	256QAM	50	0	17.89	17.84	18.03	17.86	17.95		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		



5	QPSK	1	0	22.83	22.84	23.03	22.95	22.93	24.00	0
5	QPSK	1	12	22.81	22.74	22.93	22.77	22.69		
5	QPSK	1	24	22.77	22.76	22.92	22.87	22.87		
5	QPSK	12	0	22.04	21.91	22.13	22.04	21.95	23	1
5	QPSK	12	7	21.90	21.80	22.06	21.91	21.84		
5	QPSK	12	13	21.95	21.89	22.03	21.97	21.92		
5	QPSK	25	0	21.86	21.81	22.08	21.86	21.78	23	1
5	16QAM	1	0	21.76	21.76	22.01	21.80	21.87		
5	16QAM	1	12	21.84	21.77	21.99	21.88	21.83		
5	16QAM	1	24	21.72	21.70	21.92	21.81	21.75	22	2
5	16QAM	12	0	21.15	21.27	21.38	21.27	21.09		
5	16QAM	12	7	21.11	21.17	21.25	21.04	21.17		
5	16QAM	12	13	21.09	20.99	21.18	21.11	21.09	22	2
5	16QAM	25	0	21.16	21.20	21.40	21.27	21.18		
5	64QAM	1	0	21.05	21.03	21.25	21.14	21.01		
5	64QAM	1	12	21.06	20.92	21.17	21.00	20.98	22	2
5	64QAM	1	24	20.92	20.94	21.07	21.03	20.83		
5	64QAM	12	0	20.09	20.10	20.26	20.20	20.07		
5	64QAM	12	7	20.10	20.03	20.26	20.16	20.04	21	3
5	64QAM	12	13	20.01	19.98	20.16	20.12	19.86		
5	64QAM	25	0	19.90	19.84	20.09	20.04	19.95		
5	256QAM	1	0	18.08	18.05	18.21	18.02	18.11	19	5
5	256QAM	1	12	18.12	18.05	18.07	18.06	18.06		
5	256QAM	1	24	17.97	18.00	18.11	18.10	18.05		
5	256QAM	12	0	18.07	18.07	18.11	18.02	18.04	19	5
5	256QAM	12	7	18.04	18.04	18.07	18.08	17.95		
5	256QAM	12	13	18.03	17.99	18.08	18.00	18.00		
5	256QAM	25	0	17.96	17.87	18.07	17.84	17.92		



Ant5

Band 42 FCC Part27Q 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				42190	42590	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	22.69	22.81	22.62	24	0
20	QPSK	1	49	22.68	22.75	22.60		
20	QPSK	1	99	22.58	22.68	22.54		
20	QPSK	50	0	21.85	21.88	21.82	23	1
20	QPSK	50	24	21.75	21.82	21.68		
20	QPSK	50	50	21.71	21.76	21.69		
20	QPSK	100	0	21.71	21.84	21.78		
20	16QAM	1	0	21.66	21.76	21.63	23	1
20	16QAM	1	49	21.59	21.73	21.62		
20	16QAM	1	99	21.60	21.67	21.60		
20	16QAM	50	0	20.83	20.93	20.86	22	2
20	16QAM	50	24	20.74	20.86	20.72		
20	16QAM	50	50	20.77	20.81	20.68		
20	16QAM	100	0	20.72	20.86	20.73		
20	64QAM	1	0	20.58	20.65	20.55	22	2
20	64QAM	1	49	20.53	20.60	20.46		
20	64QAM	1	99	20.44	20.54	20.40		
20	64QAM	50	0	19.87	19.94	19.83	21	3
20	64QAM	50	24	19.84	19.90	19.86		
20	64QAM	50	50	19.72	19.82	19.78		
20	64QAM	100	0	19.77	19.87	19.72		
20	256QAM	1	0	17.90	17.94	17.80	19	5
20	256QAM	1	49	17.73	17.87	17.82		
20	256QAM	1	99	17.69	17.82	17.72		
20	256QAM	50	0	17.74	17.78	17.69	19	5
20	256QAM	50	24	17.67	17.71	17.60		
20	256QAM	50	50	17.53	17.66	17.55		
20	256QAM	100	0	17.58	17.62	17.50		
Channel				42165	42590	43015		
Frequency (MHz)				3457.5	3500	3542.5		
15	QPSK	1	0	22.55	22.75	22.51	24	0
15	QPSK	1	37	22.54	22.72	22.52		
15	QPSK	1	74	22.44	22.64	22.45		
15	QPSK	36	0	21.80	21.77	21.69	23	1
15	QPSK	36	20	21.62	21.74	21.62		
15	QPSK	36	39	21.57	21.67	21.56		
15	QPSK	75	0	21.58	21.70	21.74		
15	16QAM	1	0	21.57	21.72	21.50	23	1
15	16QAM	1	37	21.44	21.59	21.55		
15	16QAM	1	74	21.46	21.52	21.54		
15	16QAM	36	0	20.80	20.79	20.76	22	2
15	16QAM	36	20	20.71	20.77	20.67		



15	16QAM	36	39	20.65	20.69	20.56		
15	16QAM	75	0	20.66	20.78	20.64		
15	64QAM	1	0	20.48	20.51	20.45	22	2
15	64QAM	1	37	20.39	20.52	20.41		
15	64QAM	1	74	20.40	20.41	20.31		
15	64QAM	36	0	19.82	19.85	19.70	21	3
15	64QAM	36	20	19.80	19.83	19.82		
15	64QAM	36	39	19.64	19.67	19.71		
15	64QAM	75	0	19.70	19.81	19.58		
15	256QAM	1	0	17.77	17.87	17.70	19	5
15	256QAM	1	37	17.61	17.74	17.73		
15	256QAM	1	74	17.66	17.75	17.68		
15	256QAM	36	0	17.71	17.73	17.64	19	5
15	256QAM	36	20	17.58	17.64	17.55		
15	256QAM	36	39	17.44	17.59	17.48		
15	256QAM	75	0	17.45	17.52	17.43		
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455	3500	3545		
10	QPSK	1	0	22.56	22.77	22.47	24	0
10	QPSK	1	25	22.59	22.66	22.53		
10	QPSK	1	49	22.51	22.62	22.44		
10	QPSK	25	0	21.79	21.75	21.69	23	1
10	QPSK	25	12	21.65	21.77	21.53		
10	QPSK	25	25	21.58	21.64	21.59		
10	QPSK	50	0	21.67	21.80	21.71		
10	16QAM	1	0	21.60	21.72	21.53	23	1
10	16QAM	1	25	21.49	21.64	21.49		
10	16QAM	1	49	21.49	21.56	21.54		
10	16QAM	25	0	20.69	20.90	20.73	22	2
10	16QAM	25	12	20.70	20.83	20.60		
10	16QAM	25	25	20.74	20.66	20.58		
10	16QAM	50	0	20.60	20.77	20.62		
10	64QAM	1	0	20.45	20.51	20.45	22	2
10	64QAM	1	25	20.40	20.56	20.38		
10	64QAM	1	49	20.34	20.44	20.27		
10	64QAM	25	0	19.81	19.86	19.79	21	3
10	64QAM	25	12	19.73	19.76	19.80		
10	64QAM	25	25	19.66	19.69	19.69		
10	64QAM	50	0	19.65	19.78	19.59		
10	256QAM	1	0	17.79	17.86	17.71	19	5
10	256QAM	1	25	17.59	17.84	17.79		
10	256QAM	1	49	17.61	17.73	17.62		
10	256QAM	25	0	17.60	17.73	17.66	19	5
10	256QAM	25	12	17.59	17.63	17.57		
10	256QAM	25	25	17.42	17.51	17.43		
10	256QAM	50	0	17.51	17.58	17.37		
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3452.5	3500	3547.5		



5	QPSK	1	0	22.65	22.68	22.50	24	0
5	QPSK	1	12	22.56	22.60	22.53		
5	QPSK	1	24	22.45	22.61	22.51		
5	QPSK	12	0	21.78	21.81	21.76	23	1
5	QPSK	12	7	21.66	21.76	21.57		
5	QPSK	12	13	21.57	21.62	21.57		
5	QPSK	25	0	21.68	21.75	21.66	23	1
5	16QAM	1	0	21.55	21.64	21.57		
5	16QAM	1	12	21.49	21.61	21.57		
5	16QAM	1	24	21.56	21.57	21.50	22	2
5	16QAM	12	0	20.74	20.82	20.81		
5	16QAM	12	7	20.69	20.77	20.61		
5	16QAM	12	13	20.65	20.75	20.56	22	2
5	16QAM	25	0	20.59	20.79	20.63		
5	16QAM	25	0	20.59	20.79	20.63		
5	64QAM	1	0	20.50	20.53	20.47	22	2
5	64QAM	1	12	20.42	20.51	20.39		
5	64QAM	1	24	20.30	20.44	20.35		
5	64QAM	12	0	19.81	19.79	19.71	21	3
5	64QAM	12	7	19.79	19.80	19.73		
5	64QAM	12	13	19.57	19.74	19.67		
5	64QAM	25	0	19.73	19.74	19.65	19	5
5	256QAM	1	0	17.86	17.89	17.69		
5	256QAM	1	12	17.65	17.81	17.68		
5	256QAM	1	24	17.58	17.71	17.62	19	5
5	256QAM	12	0	17.66	17.75	17.59		
5	256QAM	12	7	17.52	17.67	17.53		
5	256QAM	12	13	17.39	17.62	17.41	19	5
5	256QAM	25	0	17.47	17.50	17.46		



Reduced Power Mode for DSI 0

Ant 2

Band 38 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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	23.05	23.13	23.07	24	0
20	QPSK	1	49	22.92	22.98	22.83		
20	QPSK	1	99	22.86	23.01	22.96		
20	QPSK	50	0	22.17	22.20	22.09	23	1
20	QPSK	50	24	22.10	22.04	22.02		
20	QPSK	50	50	21.91	21.97	21.92		
20	16QAM	1	0	21.98	22.13	21.96	23	1
20	16QAM	1	49	22.00	22.10	21.91		
20	16QAM	1	99	21.95	22.00	22.00		
20	16QAM	50	0	21.18	21.11	21.14	22	2
20	16QAM	50	24	21.15	21.10	21.02		
20	16QAM	50	50	21.01	21.08	21.02		
20	16QAM	100	0	20.86	21.07	20.95	22	2
20	64QAM	1	0	21.00	21.22	21.20		
20	64QAM	1	49	21.09	21.17	21.05		
20	64QAM	1	99	21.11	20.96	21.00	21	3
20	64QAM	50	0	20.13	20.29	20.19		
20	64QAM	50	24	20.15	20.07	20.02		
20	64QAM	50	50	20.06	20.10	20.07	19	5
20	256QAM	1	0	18.25	18.29	18.21		
20	256QAM	1	49	18.09	18.24	18.19		
20	256QAM	1	99	18.07	18.17	18.08	19	5
20	256QAM	50	0	18.15	18.21	18.17		
20	256QAM	50	24	18.04	18.18	18.05		
20	256QAM	50	50	18.06	18.12	18.01	23	1
20	256QAM	100	0	17.95	18.06	17.98		
20	256QAM	100	0	17.95	18.06	17.98		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.99	23.05	22.94		
15	QPSK	1	37	22.85	22.87	22.75	24	0
15	QPSK	1	74	22.74	22.90	22.85		
15	QPSK	36	0	22.13	22.12	21.96		
15	QPSK	36	20	22.04	21.89	21.94	23	1
15	QPSK	36	39	21.87	21.88	21.86		
15	QPSK	75	0	21.93	22.09	21.94		
15	16QAM	1	0	21.94	22.02	21.90	23	1
15	16QAM	1	37	21.89	22.03	21.79		
15	16QAM	1	74	21.82	21.86	21.90		



15	16QAM	36	0	21.08	21.08	21.01	22	2
15	16QAM	36	20	21.01	20.98	20.99		
15	16QAM	36	39	20.86	20.98	20.90		
15	16QAM	75	0	20.82	21.02	20.82	22	2
15	64QAM	1	0	20.92	21.17	21.17		
15	64QAM	1	37	20.99	21.12	20.90		
15	64QAM	1	74	21.04	20.86	20.95	21	3
15	64QAM	36	0	20.01	20.25	20.14		
15	64QAM	36	20	20.03	19.94	19.90		
15	64QAM	36	39	20.01	20.02	19.95	19	5
15	64QAM	75	0	20.01	19.99	19.92		
15	256QAM	1	0	18.10	18.25	18.17		
15	256QAM	1	37	17.95	18.18	18.11	19	5
15	256QAM	1	74	17.95	18.06	18.02		
15	256QAM	36	0	18.12	18.15	18.05		
15	256QAM	36	20	17.99	18.11	17.96	19	5
15	256QAM	36	39	17.93	18.08	17.91		
15	256QAM	75	0	17.87	17.91	17.93		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.95	23.10	22.98	24	0
10	QPSK	1	25	22.81	22.83	22.72		
10	QPSK	1	49	22.76	22.89	22.87		
10	QPSK	25	0	22.12	22.16	22.05	23	1
10	QPSK	25	12	22.04	21.99	21.91		
10	QPSK	25	25	21.87	21.84	21.83		
10	QPSK	50	0	21.95	22.05	21.89	23	1
10	16QAM	1	0	21.85	22.02	21.84		
10	16QAM	1	25	21.88	22.01	21.82		
10	16QAM	1	49	21.81	21.87	21.91	22	2
10	16QAM	25	0	21.14	21.07	21.00		
10	16QAM	25	12	21.07	21.03	20.98		
10	16QAM	25	25	20.87	20.96	20.95	22	2
10	16QAM	50	0	20.74	20.95	20.88		
10	64QAM	1	0	20.88	21.14	21.14		
10	64QAM	1	25	20.97	21.10	20.95	22	2
10	64QAM	1	49	20.99	20.84	20.88		
10	64QAM	25	0	20.08	20.15	20.15		
10	64QAM	25	12	20.01	19.96	19.99	21	3
10	64QAM	25	25	19.93	20.00	20.02		
10	64QAM	50	0	20.05	20.08	19.92		
10	256QAM	1	0	18.15	18.20	18.12	19	5
10	256QAM	1	25	17.99	18.16	18.05		
10	256QAM	1	49	18.00	18.05	17.94		
10	256QAM	25	0	18.08	18.14	18.03	19	5
10	256QAM	25	12	17.99	18.05	18.02		
10	256QAM	25	25	17.94	18.04	17.91		
10	256QAM	50	0	17.84	17.94	17.92	19	5



Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	22.91	22.99	22.94	24	0
5	QPSK	1	12	22.86	22.89	22.70		
5	QPSK	1	24	22.75	22.90	22.89		
5	QPSK	12	0	22.12	22.09	22.00	23	1
5	QPSK	12	7	21.97	21.99	21.97		
5	QPSK	12	13	21.76	21.90	21.80		
5	QPSK	25	0	21.99	22.10	21.92		
5	16QAM	1	0	21.93	22.03	21.83	23	1
5	16QAM	1	12	21.94	22.03	21.79		
5	16QAM	1	24	21.89	21.90	21.87		
5	16QAM	12	0	21.04	21.01	21.01	22	2
5	16QAM	12	7	21.02	21.01	20.92		
5	16QAM	12	13	20.87	21.02	20.90		
5	16QAM	25	0	20.74	21.01	20.85		
5	64QAM	1	0	20.89	21.09	21.09	22	2
5	64QAM	1	12	21.04	21.13	20.94		
5	64QAM	1	24	21.03	20.84	20.93		
5	64QAM	12	0	20.04	20.17	20.14	21	3
5	64QAM	12	7	20.08	19.93	19.94		
5	64QAM	12	13	19.98	20.05	20.02		
5	64QAM	25	0	20.06	20.06	19.92		
5	256QAM	1	0	18.20	18.25	18.18	19	5
5	256QAM	1	12	17.99	18.14	18.07		
5	256QAM	1	24	17.93	18.11	17.95		
5	256QAM	12	0	18.09	18.13	18.10	19	5
5	256QAM	12	7	18.00	18.04	17.93		
5	256QAM	12	13	17.92	18.00	17.92		
5	256QAM	25	0	17.85	18.01	17.94		



Band 41 Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.98	22.94	23.16	23.09	23.01	24	0
20	QPSK	1	49	22.88	22.84	22.97	22.85	22.81		
20	QPSK	1	99	22.82	22.88	23.06	22.95	22.92		
20	QPSK	50	0	22.08	21.99	22.23	22.14	22.07	23	1
20	QPSK	50	24	21.95	21.91	22.09	21.97	21.95		
20	QPSK	50	50	22.02	21.92	22.16	22.01	21.97		
20	QPSK	100	0	21.97	21.93	22.13	21.99	21.92	23	1
20	16QAM	1	0	21.82	21.91	22.04	21.92	21.90		
20	16QAM	1	49	21.88	21.89	22.03	21.96	21.88		
20	16QAM	1	99	21.82	21.82	21.97	21.85	21.80	22	2
20	16QAM	50	0	21.24	21.33	21.45	21.35	21.22		
20	16QAM	50	24	21.18	21.26	21.33	21.18	21.24		
20	16QAM	50	50	21.13	21.07	21.27	21.21	21.14	22	2
20	16QAM	100	0	21.19	21.27	21.43	21.35	21.29		
20	64QAM	1	0	21.11	21.11	21.30	21.24	21.07		
20	64QAM	1	49	21.12	21.04	21.25	21.14	21.06	21	3
20	64QAM	1	99	21.03	21.04	21.20	21.07	20.98		
20	64QAM	50	0	20.22	20.23	20.40	20.34	20.16		
20	64QAM	50	24	20.17	20.11	20.33	20.24	20.14	19	5
20	64QAM	50	50	20.10	20.06	20.26	20.21	20.01		
20	64QAM	100	0	20.02	19.96	20.20	20.12	19.99		
20	256QAM	1	0	18.20	18.12	18.27	18.16	18.24	19	5
20	256QAM	1	49	18.18	18.13	18.22	18.19	18.17		
20	256QAM	1	99	18.10	18.06	18.18	18.14	18.14		
20	256QAM	50	0	18.19	18.13	18.24	18.17	18.18	24	0
20	256QAM	50	24	18.10	18.14	18.19	18.16	18.10		
20	256QAM	50	50	18.08	18.07	18.16	18.11	18.09		
20	256QAM	100	0	18.03	17.97	18.10	17.98	17.99	23	1
15	QPSK	36	0	21.96	21.90	22.17	22.08	22.00		
15	QPSK	36	20	21.88	21.81	22.04	21.86	21.90		
15	QPSK	36	39	21.89	21.78	22.06	21.87	21.84	23	1
15	QPSK	75	0	21.92	21.87	22.04	21.87	21.77		
15	16QAM	1	0	21.74	21.77	21.90	21.82	21.85		
15	16QAM	1	37	21.79	21.85	21.90	21.87	21.75	22	2
15	16QAM	1	74	21.69	21.74	21.88	21.74	21.69		
15	16QAM	36	0	21.12	21.28	21.38	21.20	21.10		
15	16QAM	36	20	21.11	21.13	21.25	21.09	21.18		



15	16QAM	36	39	21.08	20.97	21.22	21.15	21.00		
15	16QAM	75	0	21.11	21.17	21.31	21.21	21.15		
15	64QAM	1	0	21.02	20.97	21.16	21.11	20.99	22	2
15	64QAM	1	37	21.00	20.90	21.12	21.00	20.99		
15	64QAM	1	74	20.93	20.92	21.11	20.98	20.90		
15	64QAM	36	0	20.13	20.14	20.32	20.22	20.02	21	3
15	64QAM	36	20	20.10	20.02	20.21	20.21	20.00		
15	64QAM	36	39	20.03	20.00	20.15	20.15	19.98		
15	64QAM	75	0	19.93	19.86	20.06	20.08	19.96		
15	256QAM	1	0	18.07	18.06	18.22	18.11	18.10	19	5
15	256QAM	1	37	18.15	18.09	18.09	18.11	18.13		
15	256QAM	1	74	18.05	17.98	18.04	18.02	18.06		
15	256QAM	36	0	18.11	18.06	18.18	18.04	18.08	19	5
15	256QAM	36	20	18.05	18.07	18.09	18.13	17.97		
15	256QAM	36	39	18.01	18.01	18.02	18.00	17.98		
15	256QAM	75	0	17.96	17.87	18.03	17.91	17.92		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.93	22.88	23.06	23.03	22.95	24.00	0
10	QPSK	1	25	22.74	22.76	22.93	22.76	22.67		
10	QPSK	1	49	22.70	22.81	23.00	22.83	22.81		
10	QPSK	25	0	22.04	21.96	22.13	22.01	21.97	23	1
10	QPSK	25	12	21.87	21.77	22.02	21.84	21.89		
10	QPSK	25	25	21.98	21.86	22.01	21.92	21.90		
10	QPSK	50	0	21.86	21.82	22.06	21.92	21.86		
10	16QAM	1	0	21.71	21.86	22.00	21.85	21.76	23	1
10	16QAM	1	25	21.82	21.75	21.92	21.85	21.78		
10	16QAM	1	49	21.74	21.67	21.88	21.78	21.74		
10	16QAM	25	0	21.21	21.22	21.39	21.31	21.14	22	2
10	16QAM	25	12	21.07	21.21	21.27	21.12	21.18		
10	16QAM	25	25	21.03	21.07	21.21	21.14	21.03		
10	16QAM	50	0	21.06	21.21	21.38	21.28	21.18		
10	64QAM	1	0	20.98	21.05	21.16	21.21	20.96	22	2
10	64QAM	1	25	21.08	20.92	21.22	20.99	20.94		
10	64QAM	1	49	20.98	20.93	21.05	20.95	20.88		
10	64QAM	25	0	20.10	20.12	20.29	20.24	20.12	21	3
10	64QAM	25	12	20.10	19.99	20.21	20.14	20.01		
10	64QAM	25	25	20.01	19.94	20.13	20.14	19.86		
10	64QAM	50	0	19.92	19.90	20.07	20.04	19.94		
10	256QAM	1	0	18.17	18.06	18.19	18.12	18.15	19	5
10	256QAM	1	25	18.13	18.00	18.18	18.08	18.02		
10	256QAM	1	49	18.03	17.96	18.11	18.01	18.11		
10	256QAM	25	0	18.10	18.01	18.12	18.03	18.07	19	5
10	256QAM	25	12	17.96	18.07	18.06	18.05	17.99		
10	256QAM	25	25	17.97	17.99	18.09	18.04	18.02		
10	256QAM	50	0	17.89	17.84	18.03	17.86	17.95		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		



5	QPSK	1	0	22.83	22.84	23.03	22.95	22.93	24.00	0
5	QPSK	1	12	22.81	22.74	22.93	22.77	22.69		
5	QPSK	1	24	22.77	22.76	22.92	22.87	22.87		
5	QPSK	12	0	22.04	21.91	22.13	22.04	21.95	23	1
5	QPSK	12	7	21.90	21.80	22.06	21.91	21.84		
5	QPSK	12	13	21.95	21.89	22.03	21.97	21.92		
5	QPSK	25	0	21.86	21.81	22.08	21.86	21.78	23	1
5	16QAM	1	0	21.76	21.76	22.01	21.80	21.87		
5	16QAM	1	12	21.84	21.77	21.99	21.88	21.83		
5	16QAM	1	24	21.72	21.70	21.92	21.81	21.75	22	2
5	16QAM	12	0	21.15	21.27	21.38	21.27	21.09		
5	16QAM	12	7	21.11	21.17	21.25	21.04	21.17		
5	16QAM	12	13	21.09	20.99	21.18	21.11	21.09	22	2
5	16QAM	25	0	21.16	21.20	21.40	21.27	21.18		
5	64QAM	1	0	21.05	21.03	21.25	21.14	21.01		
5	64QAM	1	12	21.06	20.92	21.17	21.00	20.98	22	2
5	64QAM	1	24	20.92	20.94	21.07	21.03	20.83		
5	64QAM	12	0	20.09	20.10	20.26	20.20	20.07		
5	64QAM	12	7	20.10	20.03	20.26	20.16	20.04	21	3
5	64QAM	12	13	20.01	19.98	20.16	20.12	19.86		
5	64QAM	25	0	19.90	19.84	20.09	20.04	19.95		
5	256QAM	1	0	18.08	18.05	18.21	18.02	18.11	19	5
5	256QAM	1	12	18.12	18.05	18.07	18.06	18.06		
5	256QAM	1	24	17.97	18.00	18.11	18.10	18.05		
5	256QAM	12	0	18.07	18.07	18.11	18.02	18.04	19	5
5	256QAM	12	7	18.04	18.04	18.07	18.08	17.95		
5	256QAM	12	13	18.03	17.99	18.08	18.00	18.00		
5	256QAM	25	0	17.96	17.87	18.07	17.84	17.92		



Ant 5

Band 42 FCC Part27Q 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				42190	42590	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	22.69	22.81	22.62	23.5	0
20	QPSK	1	49	22.68	22.75	22.60		
20	QPSK	1	99	22.58	22.68	22.54		
20	QPSK	50	0	21.85	21.88	21.82	23	0.5
20	QPSK	50	24	21.75	21.82	21.68		
20	QPSK	50	50	21.71	21.76	21.69		
20	QPSK	100	0	21.71	21.84	21.78		
20	16QAM	1	0	21.66	21.76	21.63	23	0.5
20	16QAM	1	49	21.59	21.73	21.62		
20	16QAM	1	99	21.60	21.67	21.60		
20	16QAM	50	0	20.83	20.93	20.86	22	1.5
20	16QAM	50	24	20.74	20.86	20.72		
20	16QAM	50	50	20.77	20.81	20.68		
20	16QAM	100	0	20.72	20.86	20.73		
20	64QAM	1	0	20.58	20.65	20.55	22	1.5
20	64QAM	1	49	20.53	20.60	20.46		
20	64QAM	1	99	20.44	20.54	20.40		
20	64QAM	50	0	19.87	19.94	19.83	21	2.5
20	64QAM	50	24	19.84	19.90	19.86		
20	64QAM	50	50	19.72	19.82	19.78		
20	64QAM	100	0	19.77	19.87	19.72		
20	256QAM	1	0	17.90	17.94	17.80	19	4.5
20	256QAM	1	49	17.73	17.87	17.82		
20	256QAM	1	99	17.69	17.82	17.72		
20	256QAM	50	0	17.74	17.78	17.69	19	4.5
20	256QAM	50	24	17.67	17.71	17.60		
20	256QAM	50	50	17.53	17.66	17.55		
20	256QAM	100	0	17.58	17.62	17.50		
Channel				42165	42590	43015		
Frequency (MHz)				3457.5	3500	3542.5		
15	QPSK	1	0	22.55	22.75	22.51	23.5	0
15	QPSK	1	37	22.54	22.72	22.52		
15	QPSK	1	74	22.44	22.64	22.45		
15	QPSK	36	0	21.80	21.77	21.69	23	0.5
15	QPSK	36	20	21.62	21.74	21.62		
15	QPSK	36	39	21.57	21.67	21.56		
15	QPSK	75	0	21.58	21.70	21.74		
15	16QAM	1	0	21.57	21.72	21.50	23	0.5
15	16QAM	1	37	21.44	21.59	21.55		
15	16QAM	1	74	21.46	21.52	21.54		
15	16QAM	36	0	20.80	20.79	20.76	22	1.5
15	16QAM	36	20	20.71	20.77	20.67		



15	16QAM	36	39	20.65	20.69	20.56		
15	16QAM	75	0	20.66	20.78	20.64		
15	64QAM	1	0	20.48	20.51	20.45	22	1.5
15	64QAM	1	37	20.39	20.52	20.41		
15	64QAM	1	74	20.40	20.41	20.31		
15	64QAM	36	0	19.82	19.85	19.70	21	2.5
15	64QAM	36	20	19.80	19.83	19.82		
15	64QAM	36	39	19.64	19.67	19.71		
15	64QAM	75	0	19.70	19.81	19.58		
15	256QAM	1	0	17.77	17.87	17.70	19	4.5
15	256QAM	1	37	17.61	17.74	17.73		
15	256QAM	1	74	17.66	17.75	17.68		
15	256QAM	36	0	17.71	17.73	17.64	19	4.5
15	256QAM	36	20	17.58	17.64	17.55		
15	256QAM	36	39	17.44	17.59	17.48		
15	256QAM	75	0	17.45	17.52	17.43		
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455	3500	3545		
10	QPSK	1	0	22.56	22.77	22.47	23.5	0
10	QPSK	1	25	22.59	22.66	22.53		
10	QPSK	1	49	22.51	22.62	22.44		
10	QPSK	25	0	21.79	21.75	21.69	23	0.5
10	QPSK	25	12	21.65	21.77	21.53		
10	QPSK	25	25	21.58	21.64	21.59		
10	QPSK	50	0	21.67	21.80	21.71		
10	16QAM	1	0	21.60	21.72	21.53	23	0.5
10	16QAM	1	25	21.49	21.64	21.49		
10	16QAM	1	49	21.49	21.56	21.54		
10	16QAM	25	0	20.69	20.90	20.73	22	1.5
10	16QAM	25	12	20.70	20.83	20.60		
10	16QAM	25	25	20.74	20.66	20.58		
10	16QAM	50	0	20.60	20.77	20.62		
10	64QAM	1	0	20.45	20.51	20.45	22	1.5
10	64QAM	1	25	20.40	20.56	20.38		
10	64QAM	1	49	20.34	20.44	20.27		
10	64QAM	25	0	19.81	19.86	19.79	21	2.5
10	64QAM	25	12	19.73	19.76	19.80		
10	64QAM	25	25	19.66	19.69	19.69		
10	64QAM	50	0	19.65	19.78	19.59		
10	256QAM	1	0	17.79	17.86	17.71	19	4.5
10	256QAM	1	25	17.59	17.84	17.79		
10	256QAM	1	49	17.61	17.73	17.62		
10	256QAM	25	0	17.60	17.73	17.66	19	4.5
10	256QAM	25	12	17.59	17.63	17.57		
10	256QAM	25	25	17.42	17.51	17.43		
10	256QAM	50	0	17.51	17.58	17.37		
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3452.5	3500	3547.5		



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5	QPSK	1	0	22.65	22.68	22.50	23.5	0
5	QPSK	1	12	22.56	22.60	22.53		
5	QPSK	1	24	22.45	22.61	22.51		
5	QPSK	12	0	21.78	21.81	21.76	23	0.5
5	QPSK	12	7	21.66	21.76	21.57		
5	QPSK	12	13	21.57	21.62	21.57		
5	QPSK	25	0	21.68	21.75	21.66	23	0.5
5	16QAM	1	0	21.55	21.64	21.57		
5	16QAM	1	12	21.49	21.61	21.57		
5	16QAM	1	24	21.56	21.57	21.50	22	1.5
5	16QAM	12	0	20.74	20.82	20.81		
5	16QAM	12	7	20.69	20.77	20.61		
5	16QAM	12	13	20.65	20.75	20.56	22	1.5
5	16QAM	25	0	20.59	20.79	20.63		
5	64QAM	1	0	20.50	20.53	20.47		
5	64QAM	1	12	20.42	20.51	20.39	22	1.5
5	64QAM	1	24	20.30	20.44	20.35		
5	64QAM	12	0	19.81	19.79	19.71		
5	64QAM	12	7	19.79	19.80	19.73	21	2.5
5	64QAM	12	13	19.57	19.74	19.67		
5	64QAM	25	0	19.73	19.74	19.65		
5	256QAM	1	0	17.86	17.89	17.69	19	4.5
5	256QAM	1	12	17.65	17.81	17.68		
5	256QAM	1	24	17.58	17.71	17.62		
5	256QAM	12	0	17.66	17.75	17.59	19	4.5
5	256QAM	12	7	17.52	17.67	17.53		
5	256QAM	12	13	17.39	17.62	17.41		
5	256QAM	25	0	17.47	17.50	17.46		



Reduced Power Mode for DSI 1

Ant2

Band 38 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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	23.05	23.13	23.07	24	0
20	QPSK	1	49	22.92	22.98	22.83		
20	QPSK	1	99	22.86	23.01	22.96		
20	QPSK	50	0	22.17	22.20	22.09	23	1
20	QPSK	50	24	22.10	22.04	22.02		
20	QPSK	50	50	21.91	21.97	21.92		
20	16QAM	1	0	21.98	22.13	21.96	23	1
20	16QAM	1	49	22.00	22.10	21.91		
20	16QAM	1	99	21.95	22.00	22.00		
20	16QAM	50	0	21.18	21.11	21.14	22	2
20	16QAM	50	24	21.15	21.10	21.02		
20	16QAM	50	50	21.01	21.08	21.02		
20	16QAM	100	0	20.86	21.07	20.95	22	2
20	64QAM	1	0	21.00	21.22	21.20		
20	64QAM	1	49	21.09	21.17	21.05		
20	64QAM	1	99	21.11	20.96	21.00	21	3
20	64QAM	50	0	20.13	20.29	20.19		
20	64QAM	50	24	20.15	20.07	20.02		
20	64QAM	50	50	20.06	20.10	20.07	19	5
20	256QAM	1	0	18.25	18.29	18.21		
20	256QAM	1	49	18.09	18.24	18.19		
20	256QAM	1	99	18.07	18.17	18.08	19	5
20	256QAM	50	0	18.15	18.21	18.17		
20	256QAM	50	24	18.04	18.18	18.05		
20	256QAM	50	50	18.06	18.12	18.01	23	1
20	256QAM	100	0	17.95	18.06	17.98		
20	256QAM	100	0	17.95	18.06	17.98		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.99	23.05	22.94		
15	QPSK	1	37	22.85	22.87	22.75	24	0
15	QPSK	1	74	22.74	22.90	22.85		
15	QPSK	36	0	22.13	22.12	21.96		
15	QPSK	36	20	22.04	21.89	21.94	23	1
15	QPSK	36	39	21.87	21.88	21.86		
15	QPSK	75	0	21.93	22.09	21.94		
15	16QAM	1	0	21.94	22.02	21.90	23	1
15	16QAM	1	37	21.89	22.03	21.79		
15	16QAM	1	74	21.82	21.86	21.90		



15	16QAM	36	0	21.08	21.08	21.01	22	2
15	16QAM	36	20	21.01	20.98	20.99		
15	16QAM	36	39	20.86	20.98	20.90		
15	16QAM	75	0	20.82	21.02	20.82	22	2
15	64QAM	1	0	20.92	21.17	21.17		
15	64QAM	1	37	20.99	21.12	20.90		
15	64QAM	1	74	21.04	20.86	20.95	21	3
15	64QAM	36	0	20.01	20.25	20.14		
15	64QAM	36	20	20.03	19.94	19.90		
15	64QAM	36	39	20.01	20.02	19.95	19	5
15	64QAM	75	0	20.01	19.99	19.92		
15	256QAM	1	0	18.10	18.25	18.17		
15	256QAM	1	37	17.95	18.18	18.11	19	5
15	256QAM	1	74	17.95	18.06	18.02		
15	256QAM	36	0	18.12	18.15	18.05		
15	256QAM	36	20	17.99	18.11	17.96	19	5
15	256QAM	36	39	17.93	18.08	17.91		
15	256QAM	75	0	17.87	17.91	17.93		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.95	23.10	22.98	24	0
10	QPSK	1	25	22.81	22.83	22.72		
10	QPSK	1	49	22.76	22.89	22.87		
10	QPSK	25	0	22.12	22.16	22.05	23	1
10	QPSK	25	12	22.04	21.99	21.91		
10	QPSK	25	25	21.87	21.84	21.83		
10	QPSK	50	0	21.95	22.05	21.89	23	1
10	16QAM	1	0	21.85	22.02	21.84		
10	16QAM	1	25	21.88	22.01	21.82		
10	16QAM	1	49	21.81	21.87	21.91	22	2
10	16QAM	25	0	21.14	21.07	21.00		
10	16QAM	25	12	21.07	21.03	20.98		
10	16QAM	25	25	20.87	20.96	20.95	22	2
10	16QAM	50	0	20.74	20.95	20.88		
10	64QAM	1	0	20.88	21.14	21.14		
10	64QAM	1	25	20.97	21.10	20.95	22	2
10	64QAM	1	49	20.99	20.84	20.88		
10	64QAM	25	0	20.08	20.15	20.15		
10	64QAM	25	12	20.01	19.96	19.99	21	3
10	64QAM	25	25	19.93	20.00	20.02		
10	64QAM	50	0	20.05	20.08	19.92		
10	256QAM	1	0	18.15	18.20	18.12	19	5
10	256QAM	1	25	17.99	18.16	18.05		
10	256QAM	1	49	18.00	18.05	17.94		
10	256QAM	25	0	18.08	18.14	18.03	19	5
10	256QAM	25	12	17.99	18.05	18.02		
10	256QAM	25	25	17.94	18.04	17.91		
10	256QAM	50	0	17.84	17.94	17.92	19	5



Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	22.91	22.99	22.94	24	0
5	QPSK	1	12	22.86	22.89	22.70		
5	QPSK	1	24	22.75	22.90	22.89		
5	QPSK	12	0	22.12	22.09	22.00	23	1
5	QPSK	12	7	21.97	21.99	21.97		
5	QPSK	12	13	21.76	21.90	21.80		
5	QPSK	25	0	21.99	22.10	21.92		
5	16QAM	1	0	21.93	22.03	21.83	23	1
5	16QAM	1	12	21.94	22.03	21.79		
5	16QAM	1	24	21.89	21.90	21.87		
5	16QAM	12	0	21.04	21.01	21.01	22	2
5	16QAM	12	7	21.02	21.01	20.92		
5	16QAM	12	13	20.87	21.02	20.90		
5	16QAM	25	0	20.74	21.01	20.85		
5	64QAM	1	0	20.89	21.09	21.09	22	2
5	64QAM	1	12	21.04	21.13	20.94		
5	64QAM	1	24	21.03	20.84	20.93		
5	64QAM	12	0	20.04	20.17	20.14	21	3
5	64QAM	12	7	20.08	19.93	19.94		
5	64QAM	12	13	19.98	20.05	20.02		
5	64QAM	25	0	20.06	20.06	19.92		
5	256QAM	1	0	18.20	18.25	18.18	19	5
5	256QAM	1	12	17.99	18.14	18.07		
5	256QAM	1	24	17.93	18.11	17.95		
5	256QAM	12	0	18.09	18.13	18.10	19	5
5	256QAM	12	7	18.00	18.04	17.93		
5	256QAM	12	13	17.92	18.00	17.92		
5	256QAM	25	0	17.85	18.01	17.94		



Band 41 Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.98	22.94	23.16	23.09	23.01	24	0
20	QPSK	1	49	22.88	22.84	22.97	22.85	22.81		
20	QPSK	1	99	22.82	22.88	23.06	22.95	22.92		
20	QPSK	50	0	22.08	21.99	22.23	22.14	22.07	23	1
20	QPSK	50	24	21.95	21.91	22.09	21.97	21.95		
20	QPSK	50	50	22.02	21.92	22.16	22.01	21.97		
20	QPSK	100	0	21.97	21.93	22.13	21.99	21.92	23	1
20	16QAM	1	0	21.82	21.91	22.04	21.92	21.90		
20	16QAM	1	49	21.88	21.89	22.03	21.96	21.88		
20	16QAM	1	99	21.82	21.82	21.97	21.85	21.80	22	2
20	16QAM	50	0	21.24	21.33	21.45	21.35	21.22		
20	16QAM	50	24	21.18	21.26	21.33	21.18	21.24		
20	16QAM	50	50	21.13	21.07	21.27	21.21	21.14	22	2
20	16QAM	100	0	21.19	21.27	21.43	21.35	21.29		
20	64QAM	1	0	21.11	21.11	21.30	21.24	21.07		
20	64QAM	1	49	21.12	21.04	21.25	21.14	21.06	21	3
20	64QAM	1	99	21.03	21.04	21.20	21.07	20.98		
20	64QAM	50	0	20.22	20.23	20.40	20.34	20.16		
20	64QAM	50	24	20.17	20.11	20.33	20.24	20.14	19	5
20	64QAM	50	50	20.10	20.06	20.26	20.21	20.01		
20	64QAM	100	0	20.02	19.96	20.20	20.12	19.99		
20	256QAM	1	0	18.20	18.12	18.27	18.16	18.24	19	5
20	256QAM	1	49	18.18	18.13	18.22	18.19	18.17		
20	256QAM	1	99	18.10	18.06	18.18	18.14	18.14		
20	256QAM	50	0	18.19	18.13	18.24	18.17	18.18	24	0
20	256QAM	50	24	18.10	18.14	18.19	18.16	18.10		
20	256QAM	50	50	18.08	18.07	18.16	18.11	18.09		
20	256QAM	100	0	18.03	17.97	18.10	17.98	17.99	23	1
15	QPSK	36	0	21.96	21.90	22.17	22.08	22.00		
15	QPSK	36	20	21.88	21.81	22.04	21.86	21.90		
15	QPSK	36	39	21.89	21.78	22.06	21.87	21.84	23	1
15	QPSK	75	0	21.92	21.87	22.04	21.87	21.77		
15	16QAM	1	0	21.74	21.77	21.90	21.82	21.85		
15	16QAM	1	37	21.79	21.85	21.90	21.87	21.75	22	2
15	16QAM	1	74	21.69	21.74	21.88	21.74	21.69		
15	16QAM	36	0	21.12	21.28	21.38	21.20	21.10		
15	16QAM	36	20	21.11	21.13	21.25	21.09	21.18		



15	16QAM	36	39	21.08	20.97	21.22	21.15	21.00		
15	16QAM	75	0	21.11	21.17	21.31	21.21	21.15		
15	64QAM	1	0	21.02	20.97	21.16	21.11	20.99	22	2
15	64QAM	1	37	21.00	20.90	21.12	21.00	20.99		
15	64QAM	1	74	20.93	20.92	21.11	20.98	20.90		
15	64QAM	36	0	20.13	20.14	20.32	20.22	20.02	21	3
15	64QAM	36	20	20.10	20.02	20.21	20.21	20.00		
15	64QAM	36	39	20.03	20.00	20.15	20.15	19.98		
15	64QAM	75	0	19.93	19.86	20.06	20.08	19.96		
15	256QAM	1	0	18.07	18.06	18.22	18.11	18.10	19	5
15	256QAM	1	37	18.15	18.09	18.09	18.11	18.13		
15	256QAM	1	74	18.05	17.98	18.04	18.02	18.06		
15	256QAM	36	0	18.11	18.06	18.18	18.04	18.08	19	5
15	256QAM	36	20	18.05	18.07	18.09	18.13	17.97		
15	256QAM	36	39	18.01	18.01	18.02	18.00	17.98		
15	256QAM	75	0	17.96	17.87	18.03	17.91	17.92		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.93	22.88	23.06	23.03	22.95	24.00	0
10	QPSK	1	25	22.74	22.76	22.93	22.76	22.67		
10	QPSK	1	49	22.70	22.81	23.00	22.83	22.81		
10	QPSK	25	0	22.04	21.96	22.13	22.01	21.97	23	1
10	QPSK	25	12	21.87	21.77	22.02	21.84	21.89		
10	QPSK	25	25	21.98	21.86	22.01	21.92	21.90		
10	QPSK	50	0	21.86	21.82	22.06	21.92	21.86		
10	16QAM	1	0	21.71	21.86	22.00	21.85	21.76	23	1
10	16QAM	1	25	21.82	21.75	21.92	21.85	21.78		
10	16QAM	1	49	21.74	21.67	21.88	21.78	21.74		
10	16QAM	25	0	21.21	21.22	21.39	21.31	21.14	22	2
10	16QAM	25	12	21.07	21.21	21.27	21.12	21.18		
10	16QAM	25	25	21.03	21.07	21.21	21.14	21.03		
10	16QAM	50	0	21.06	21.21	21.38	21.28	21.18		
10	64QAM	1	0	20.98	21.05	21.16	21.21	20.96	22	2
10	64QAM	1	25	21.08	20.92	21.22	20.99	20.94		
10	64QAM	1	49	20.98	20.93	21.05	20.95	20.88		
10	64QAM	25	0	20.10	20.12	20.29	20.24	20.12	21	3
10	64QAM	25	12	20.10	19.99	20.21	20.14	20.01		
10	64QAM	25	25	20.01	19.94	20.13	20.14	19.86		
10	64QAM	50	0	19.92	19.90	20.07	20.04	19.94		
10	256QAM	1	0	18.17	18.06	18.19	18.12	18.15	19	5
10	256QAM	1	25	18.13	18.00	18.18	18.08	18.02		
10	256QAM	1	49	18.03	17.96	18.11	18.01	18.11		
10	256QAM	25	0	18.10	18.01	18.12	18.03	18.07	19	5
10	256QAM	25	12	17.96	18.07	18.06	18.05	17.99		
10	256QAM	25	25	17.97	17.99	18.09	18.04	18.02		
10	256QAM	50	0	17.89	17.84	18.03	17.86	17.95		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		



5	QPSK	1	0	22.83	22.84	23.03	22.95	22.93	24.00	0
5	QPSK	1	12	22.81	22.74	22.93	22.77	22.69		
5	QPSK	1	24	22.77	22.76	22.92	22.87	22.87		
5	QPSK	12	0	22.04	21.91	22.13	22.04	21.95	23	1
5	QPSK	12	7	21.90	21.80	22.06	21.91	21.84		
5	QPSK	12	13	21.95	21.89	22.03	21.97	21.92		
5	QPSK	25	0	21.86	21.81	22.08	21.86	21.78	23	1
5	16QAM	1	0	21.76	21.76	22.01	21.80	21.87		
5	16QAM	1	12	21.84	21.77	21.99	21.88	21.83		
5	16QAM	1	24	21.72	21.70	21.92	21.81	21.75	22	2
5	16QAM	12	0	21.15	21.27	21.38	21.27	21.09		
5	16QAM	12	7	21.11	21.17	21.25	21.04	21.17		
5	16QAM	12	13	21.09	20.99	21.18	21.11	21.09	22	2
5	16QAM	25	0	21.16	21.20	21.40	21.27	21.18		
5	64QAM	1	0	21.05	21.03	21.25	21.14	21.01		
5	64QAM	1	12	21.06	20.92	21.17	21.00	20.98	22	2
5	64QAM	1	24	20.92	20.94	21.07	21.03	20.83		
5	64QAM	12	0	20.09	20.10	20.26	20.20	20.07		
5	64QAM	12	7	20.10	20.03	20.26	20.16	20.04	21	3
5	64QAM	12	13	20.01	19.98	20.16	20.12	19.86		
5	64QAM	25	0	19.90	19.84	20.09	20.04	19.95		
5	256QAM	1	0	18.08	18.05	18.21	18.02	18.11	19	5
5	256QAM	1	12	18.12	18.05	18.07	18.06	18.06		
5	256QAM	1	24	17.97	18.00	18.11	18.10	18.05		
5	256QAM	12	0	18.07	18.07	18.11	18.02	18.04	19	5
5	256QAM	12	7	18.04	18.04	18.07	18.08	17.95		
5	256QAM	12	13	18.03	17.99	18.08	18.00	18.00		
5	256QAM	25	0	17.96	17.87	18.07	17.84	17.92		



Ant 5

Band 42 FCC Part27Q 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				42190	42590	42990				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	22.15	22.30	22.18	23.1	0		
20	QPSK	1	49	22.03	22.22	22.15				
20	QPSK	1	99	22.10	22.17	22.07				
20	QPSK	50	0	21.66	21.82	21.64	23	0.1		
20	QPSK	50	24	21.49	21.66	21.65				
20	QPSK	50	50	21.61	21.63	21.54				
20	QPSK	100	0	21.67	21.77	21.69	23	0.1		
20	16QAM	1	0	21.60	21.72	21.58				
20	16QAM	1	49	21.42	21.70	21.64				
20	16QAM	1	99	21.61	21.59	21.47	22	1.1		
20	16QAM	50	0	20.58	20.83	20.60				
20	16QAM	50	24	20.56	20.73	20.60				
20	16QAM	50	50	20.59	20.69	20.53	22	1.1		
20	16QAM	100	0	20.63	20.84	20.75				
20	64QAM	1	0	20.65	20.70	20.58				
20	64QAM	1	49	20.39	20.66	20.59	22	1.1		
20	64QAM	1	99	20.69	20.59	20.52				
20	64QAM	50	0	19.73	19.86	19.59				
20	64QAM	50	24	19.41	19.73	19.70	21	2.1		
20	64QAM	50	50	19.62	19.55	19.46				
20	64QAM	100	0	19.65	19.76	19.73				
20	256QAM	1	0	17.74	17.83	17.65	19	4.1		
20	256QAM	1	49	17.43	17.70	17.60				
20	256QAM	1	99	17.59	17.68	17.47				
20	256QAM	50	0	17.74	17.84	17.71	19	4.1		
20	256QAM	50	24	17.64	17.74	17.53				
20	256QAM	50	50	17.35	17.75	17.63				
20	256QAM	100	0	17.58	17.64	17.48	19	4.1		
Channel				42165	42590	43015				
Frequency (MHz)				3457.5	3500	3542.5				
15	QPSK	1	0	22.06	22.24	22.11	23.1	0		
15	QPSK	1	37	21.89	22.13	22.11				
15	QPSK	1	74	21.94	22.14	22.02				
15	QPSK	36	0	21.52	21.74	21.54	23	0.1		
15	QPSK	36	20	21.42	21.59	21.57				
15	QPSK	36	39	21.44	21.57	21.39				
15	QPSK	75	0	21.55	21.75	21.53	23	0.1		
15	16QAM	1	0	21.43	21.70	21.43				
15	16QAM	1	37	21.32	21.60	21.60				
15	16QAM	1	74	21.55	21.55	21.36	22	1.1		
15	16QAM	36	0	20.46	20.80	20.49				
15	16QAM	36	20	20.49	20.69	20.44				



15	16QAM	36	39	20.53	20.63	20.39		
15	16QAM	75	0	20.47	20.69	20.72		
15	64QAM	1	0	20.55	20.61	20.50	22	1.1
15	64QAM	1	37	20.30	20.53	20.46		
15	64QAM	1	74	20.61	20.48	20.45		
15	64QAM	36	0	19.71	19.78	19.48	21	2.1
15	64QAM	36	20	19.40	19.64	19.62		
15	64QAM	36	39	19.54	19.47	19.39		
15	64QAM	75	0	19.51	19.70	19.71		
15	256QAM	1	0	17.65	17.72	17.59	19	4.1
15	256QAM	1	37	17.39	17.61	17.54		
15	256QAM	1	74	17.57	17.54	17.35		
15	256QAM	36	0	17.59	17.72	17.70	19	4.1
15	256QAM	36	20	17.61	17.73	17.48		
15	256QAM	36	39	17.27	17.69	17.54		
15	256QAM	75	0	17.41	17.59	17.33		
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455	3500	3545		
10	QPSK	1	0	22.02	22.16	22.04	23.1	0
10	QPSK	1	25	21.91	22.14	21.98		
10	QPSK	1	49	21.93	22.03	21.93		
10	QPSK	25	0	21.54	21.73	21.59	23	0.1
10	QPSK	25	12	21.34	21.54	21.48		
10	QPSK	25	25	21.50	21.50	21.43		
10	QPSK	50	0	21.56	21.71	21.52		
10	16QAM	1	0	21.45	21.65	21.55	23	0.1
10	16QAM	1	25	21.30	21.67	21.48		
10	16QAM	1	49	21.57	21.43	21.31		
10	16QAM	25	0	20.55	20.77	20.49	22	1.1
10	16QAM	25	12	20.40	20.70	20.45		
10	16QAM	25	25	20.58	20.59	20.50		
10	16QAM	50	0	20.48	20.72	20.64		
10	64QAM	1	0	20.52	20.60	20.55	22	1.1
10	64QAM	1	25	20.28	20.63	20.52		
10	64QAM	1	49	20.66	20.52	20.40		
10	64QAM	25	0	19.63	19.72	19.42	21	2.1
10	64QAM	25	12	19.39	19.58	19.69		
10	64QAM	25	25	19.58	19.39	19.40		
10	64QAM	50	0	19.54	19.59	19.67		
10	256QAM	1	0	17.58	17.77	17.57	19	4.1
10	256QAM	1	25	17.39	17.56	17.56		
10	256QAM	1	49	17.48	17.56	17.43		
10	256QAM	25	0	17.67	17.73	17.65	19	4.1
10	256QAM	25	12	17.48	17.59	17.42		
10	256QAM	25	25	17.29	17.61	17.60		
10	256QAM	50	0	17.55	17.59	17.34		
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3452.5	3500	3547.5		



5	QPSK	1	0	22.05	22.28	22.13	23.1	0
5	QPSK	1	12	21.95	22.19	22.01		
5	QPSK	1	24	22.05	22.04	22.05		
5	QPSK	12	0	21.50	21.65	21.51	23	0.1
5	QPSK	12	7	21.36	21.53	21.49		
5	QPSK	12	13	21.49	21.57	21.44		
5	QPSK	25	0	21.65	21.67	21.63	23	0.1
5	16QAM	1	0	21.44	21.56	21.43		
5	16QAM	1	12	21.32	21.60	21.47		
5	16QAM	1	24	21.51	21.55	21.31	22	1.1
5	16QAM	12	0	20.47	20.67	20.51		
5	16QAM	12	7	20.44	20.58	20.53		
5	16QAM	12	13	20.47	20.56	20.50	22	1.1
5	16QAM	25	0	20.54	20.81	20.68		
5	64QAM	1	0	20.60	20.59	20.44		
5	64QAM	1	12	20.36	20.53	20.47	22	1.1
5	64QAM	1	24	20.53	20.55	20.35		
5	64QAM	12	0	19.63	19.70	19.50		
5	64QAM	12	7	19.26	19.66	19.58	21	2.1
5	64QAM	12	13	19.48	19.45	19.42		
5	64QAM	25	0	19.59	19.69	19.63		
5	256QAM	1	0	17.62	17.69	17.51	19	4.1
5	256QAM	1	12	17.33	17.55	17.52		
5	256QAM	1	24	17.52	17.52	17.45		
5	256QAM	12	0	17.67	17.68	17.62	19	4.1
5	256QAM	12	7	17.54	17.71	17.40		
5	256QAM	12	13	17.33	17.73	17.55		
5	256QAM	25	0	17.53	17.60	17.37		



Reduced Power Mode for DSI 2

Ant2

Band 38 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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	23.05	23.13	23.07	24	0
20	QPSK	1	49	22.92	22.98	22.83		
20	QPSK	1	99	22.86	23.01	22.96		
20	QPSK	50	0	22.17	22.20	22.09	23	1
20	QPSK	50	24	22.10	22.04	22.02		
20	QPSK	50	50	21.91	21.97	21.92		
20	16QAM	1	0	21.98	22.13	21.96	23	1
20	16QAM	1	49	22.00	22.10	21.91		
20	16QAM	1	99	21.95	22.00	22.00		
20	16QAM	50	0	21.18	21.11	21.14	22	2
20	16QAM	50	24	21.15	21.10	21.02		
20	16QAM	50	50	21.01	21.08	21.02		
20	16QAM	100	0	20.86	21.07	20.95	22	2
20	64QAM	1	0	21.00	21.22	21.20		
20	64QAM	1	49	21.09	21.17	21.05		
20	64QAM	1	99	21.11	20.96	21.00	21	3
20	64QAM	50	0	20.13	20.29	20.19		
20	64QAM	50	24	20.15	20.07	20.02		
20	64QAM	50	50	20.06	20.10	20.07	19	5
20	256QAM	1	0	18.25	18.29	18.21		
20	256QAM	1	49	18.09	18.24	18.19		
20	256QAM	1	99	18.07	18.17	18.08	19	5
20	256QAM	50	0	18.15	18.21	18.17		
20	256QAM	50	24	18.04	18.18	18.05		
20	256QAM	50	50	18.06	18.12	18.01	23	1
20	256QAM	100	0	17.95	18.06	17.98		
20	256QAM	100	0	17.95	18.06	17.98		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.99	23.05	22.94	24	0
15	QPSK	1	37	22.85	22.87	22.75		
15	QPSK	1	74	22.74	22.90	22.85		
15	QPSK	36	0	22.13	22.12	21.96	23	1
15	QPSK	36	20	22.04	21.89	21.94		
15	QPSK	36	39	21.87	21.88	21.86		
15	QPSK	75	0	21.93	22.09	21.94	23	1
15	16QAM	1	0	21.94	22.02	21.90		
15	16QAM	1	37	21.89	22.03	21.79		
15	16QAM	1	74	21.82	21.86	21.90		



15	16QAM	36	0	21.08	21.08	21.01	22	2
15	16QAM	36	20	21.01	20.98	20.99		
15	16QAM	36	39	20.86	20.98	20.90		
15	16QAM	75	0	20.82	21.02	20.82	22	2
15	64QAM	1	0	20.92	21.17	21.17		
15	64QAM	1	37	20.99	21.12	20.90		
15	64QAM	1	74	21.04	20.86	20.95	21	3
15	64QAM	36	0	20.01	20.25	20.14		
15	64QAM	36	20	20.03	19.94	19.90		
15	64QAM	36	39	20.01	20.02	19.95	19	5
15	64QAM	75	0	20.01	19.99	19.92		
15	256QAM	1	0	18.10	18.25	18.17		
15	256QAM	1	37	17.95	18.18	18.11	19	5
15	256QAM	1	74	17.95	18.06	18.02		
15	256QAM	36	0	18.12	18.15	18.05		
15	256QAM	36	20	17.99	18.11	17.96	19	5
15	256QAM	36	39	17.93	18.08	17.91		
15	256QAM	75	0	17.87	17.91	17.93		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.95	23.10	22.98	24	0
10	QPSK	1	25	22.81	22.83	22.72		
10	QPSK	1	49	22.76	22.89	22.87		
10	QPSK	25	0	22.12	22.16	22.05	23	1
10	QPSK	25	12	22.04	21.99	21.91		
10	QPSK	25	25	21.87	21.84	21.83		
10	QPSK	50	0	21.95	22.05	21.89	23	1
10	16QAM	1	0	21.85	22.02	21.84		
10	16QAM	1	25	21.88	22.01	21.82		
10	16QAM	1	49	21.81	21.87	21.91	22	2
10	16QAM	25	0	21.14	21.07	21.00		
10	16QAM	25	12	21.07	21.03	20.98		
10	16QAM	25	25	20.87	20.96	20.95	22	2
10	16QAM	50	0	20.74	20.95	20.88		
10	64QAM	1	0	20.88	21.14	21.14		
10	64QAM	1	25	20.97	21.10	20.95	22	2
10	64QAM	1	49	20.99	20.84	20.88		
10	64QAM	25	0	20.08	20.15	20.15		
10	64QAM	25	12	20.01	19.96	19.99	21	3
10	64QAM	25	25	19.93	20.00	20.02		
10	64QAM	50	0	20.05	20.08	19.92		
10	256QAM	1	0	18.15	18.20	18.12	19	5
10	256QAM	1	25	17.99	18.16	18.05		
10	256QAM	1	49	18.00	18.05	17.94		
10	256QAM	25	0	18.08	18.14	18.03	19	5
10	256QAM	25	12	17.99	18.05	18.02		
10	256QAM	25	25	17.94	18.04	17.91		
10	256QAM	50	0	17.84	17.94	17.92	19	5



Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	22.91	22.99	22.94	24	0
5	QPSK	1	12	22.86	22.89	22.70		
5	QPSK	1	24	22.75	22.90	22.89		
5	QPSK	12	0	22.12	22.09	22.00	23	1
5	QPSK	12	7	21.97	21.99	21.97		
5	QPSK	12	13	21.76	21.90	21.80		
5	QPSK	25	0	21.99	22.10	21.92		
5	16QAM	1	0	21.93	22.03	21.83	23	1
5	16QAM	1	12	21.94	22.03	21.79		
5	16QAM	1	24	21.89	21.90	21.87		
5	16QAM	12	0	21.04	21.01	21.01	22	2
5	16QAM	12	7	21.02	21.01	20.92		
5	16QAM	12	13	20.87	21.02	20.90		
5	16QAM	25	0	20.74	21.01	20.85		
5	64QAM	1	0	20.89	21.09	21.09	22	2
5	64QAM	1	12	21.04	21.13	20.94		
5	64QAM	1	24	21.03	20.84	20.93		
5	64QAM	12	0	20.04	20.17	20.14	21	3
5	64QAM	12	7	20.08	19.93	19.94		
5	64QAM	12	13	19.98	20.05	20.02		
5	64QAM	25	0	20.06	20.06	19.92		
5	256QAM	1	0	18.20	18.25	18.18	19	5
5	256QAM	1	12	17.99	18.14	18.07		
5	256QAM	1	24	17.93	18.11	17.95		
5	256QAM	12	0	18.09	18.13	18.10	19	5
5	256QAM	12	7	18.00	18.04	17.93		
5	256QAM	12	13	17.92	18.00	17.92		
5	256QAM	25	0	17.85	18.01	17.94		



Band 41 Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.98	22.94	23.16	23.09	23.01	24	0
20	QPSK	1	49	22.88	22.84	22.97	22.85	22.81		
20	QPSK	1	99	22.82	22.88	23.06	22.95	22.92		
20	QPSK	50	0	22.08	21.99	22.23	22.14	22.07	23	1
20	QPSK	50	24	21.95	21.91	22.09	21.97	21.95		
20	QPSK	50	50	22.02	21.92	22.16	22.01	21.97		
20	QPSK	100	0	21.97	21.93	22.13	21.99	21.92	23	1
20	16QAM	1	0	21.82	21.91	22.04	21.92	21.90		
20	16QAM	1	49	21.88	21.89	22.03	21.96	21.88		
20	16QAM	1	99	21.82	21.82	21.97	21.85	21.80	22	2
20	16QAM	50	0	21.24	21.33	21.45	21.35	21.22		
20	16QAM	50	24	21.18	21.26	21.33	21.18	21.24		
20	16QAM	50	50	21.13	21.07	21.27	21.21	21.14	22	2
20	16QAM	100	0	21.19	21.27	21.43	21.35	21.29		
20	64QAM	1	0	21.11	21.11	21.30	21.24	21.07		
20	64QAM	1	49	21.12	21.04	21.25	21.14	21.06	21	3
20	64QAM	1	99	21.03	21.04	21.20	21.07	20.98		
20	64QAM	50	0	20.22	20.23	20.40	20.34	20.16		
20	64QAM	50	24	20.17	20.11	20.33	20.24	20.14	19	5
20	64QAM	50	50	20.10	20.06	20.26	20.21	20.01		
20	64QAM	100	0	20.02	19.96	20.20	20.12	19.99		
20	256QAM	1	0	18.20	18.12	18.27	18.16	18.24	19	5
20	256QAM	1	49	18.18	18.13	18.22	18.19	18.17		
20	256QAM	1	99	18.10	18.06	18.18	18.14	18.14		
20	256QAM	50	0	18.19	18.13	18.24	18.17	18.18	24	0
20	256QAM	50	24	18.10	18.14	18.19	18.16	18.10		
20	256QAM	50	50	18.08	18.07	18.16	18.11	18.09		
20	256QAM	100	0	18.03	17.97	18.10	17.98	17.99	23	1
15	QPSK	36	0	21.96	21.90	22.17	22.08	22.00		
15	QPSK	36	20	21.88	21.81	22.04	21.86	21.90		
15	QPSK	36	39	21.89	21.78	22.06	21.87	21.84	23	1
15	QPSK	75	0	21.92	21.87	22.04	21.87	21.77		
15	16QAM	1	0	21.74	21.77	21.90	21.82	21.85		
15	16QAM	1	37	21.79	21.85	21.90	21.87	21.75	22	2
15	16QAM	1	74	21.69	21.74	21.88	21.74	21.69		
15	16QAM	36	0	21.12	21.28	21.38	21.20	21.10		
15	16QAM	36	20	21.11	21.13	21.25	21.09	21.18		



15	16QAM	36	39	21.08	20.97	21.22	21.15	21.00		
15	16QAM	75	0	21.11	21.17	21.31	21.21	21.15		
15	64QAM	1	0	21.02	20.97	21.16	21.11	20.99	22	2
15	64QAM	1	37	21.00	20.90	21.12	21.00	20.99		
15	64QAM	1	74	20.93	20.92	21.11	20.98	20.90		
15	64QAM	36	0	20.13	20.14	20.32	20.22	20.02	21	3
15	64QAM	36	20	20.10	20.02	20.21	20.21	20.00		
15	64QAM	36	39	20.03	20.00	20.15	20.15	19.98		
15	64QAM	75	0	19.93	19.86	20.06	20.08	19.96		
15	256QAM	1	0	18.07	18.06	18.22	18.11	18.10	19	5
15	256QAM	1	37	18.15	18.09	18.09	18.11	18.13		
15	256QAM	1	74	18.05	17.98	18.04	18.02	18.06		
15	256QAM	36	0	18.11	18.06	18.18	18.04	18.08	19	5
15	256QAM	36	20	18.05	18.07	18.09	18.13	17.97		
15	256QAM	36	39	18.01	18.01	18.02	18.00	17.98		
15	256QAM	75	0	17.96	17.87	18.03	17.91	17.92		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.93	22.88	23.06	23.03	22.95	24.00	0
10	QPSK	1	25	22.74	22.76	22.93	22.76	22.67		
10	QPSK	1	49	22.70	22.81	23.00	22.83	22.81		
10	QPSK	25	0	22.04	21.96	22.13	22.01	21.97	23	1
10	QPSK	25	12	21.87	21.77	22.02	21.84	21.89		
10	QPSK	25	25	21.98	21.86	22.01	21.92	21.90		
10	QPSK	50	0	21.86	21.82	22.06	21.92	21.86		
10	16QAM	1	0	21.71	21.86	22.00	21.85	21.76	23	1
10	16QAM	1	25	21.82	21.75	21.92	21.85	21.78		
10	16QAM	1	49	21.74	21.67	21.88	21.78	21.74		
10	16QAM	25	0	21.21	21.22	21.39	21.31	21.14	22	2
10	16QAM	25	12	21.07	21.21	21.27	21.12	21.18		
10	16QAM	25	25	21.03	21.07	21.21	21.14	21.03		
10	16QAM	50	0	21.06	21.21	21.38	21.28	21.18		
10	64QAM	1	0	20.98	21.05	21.16	21.21	20.96	22	2
10	64QAM	1	25	21.08	20.92	21.22	20.99	20.94		
10	64QAM	1	49	20.98	20.93	21.05	20.95	20.88		
10	64QAM	25	0	20.10	20.12	20.29	20.24	20.12	21	3
10	64QAM	25	12	20.10	19.99	20.21	20.14	20.01		
10	64QAM	25	25	20.01	19.94	20.13	20.14	19.86		
10	64QAM	50	0	19.92	19.90	20.07	20.04	19.94		
10	256QAM	1	0	18.17	18.06	18.19	18.12	18.15	19	5
10	256QAM	1	25	18.13	18.00	18.18	18.08	18.02		
10	256QAM	1	49	18.03	17.96	18.11	18.01	18.11		
10	256QAM	25	0	18.10	18.01	18.12	18.03	18.07	19	5
10	256QAM	25	12	17.96	18.07	18.06	18.05	17.99		
10	256QAM	25	25	17.97	17.99	18.09	18.04	18.02		
10	256QAM	50	0	17.89	17.84	18.03	17.86	17.95		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		



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5	QPSK	1	0	22.83	22.84	23.03	22.95	22.93	24.00	0
5	QPSK	1	12	22.81	22.74	22.93	22.77	22.69		
5	QPSK	1	24	22.77	22.76	22.92	22.87	22.87		
5	QPSK	12	0	22.04	21.91	22.13	22.04	21.95	23	1
5	QPSK	12	7	21.90	21.80	22.06	21.91	21.84		
5	QPSK	12	13	21.95	21.89	22.03	21.97	21.92		
5	QPSK	25	0	21.86	21.81	22.08	21.86	21.78	23	1
5	16QAM	1	0	21.76	21.76	22.01	21.80	21.87		
5	16QAM	1	12	21.84	21.77	21.99	21.88	21.83		
5	16QAM	1	24	21.72	21.70	21.92	21.81	21.75	22	2
5	16QAM	12	0	21.15	21.27	21.38	21.27	21.09		
5	16QAM	12	7	21.11	21.17	21.25	21.04	21.17		
5	16QAM	12	13	21.09	20.99	21.18	21.11	21.09	22	2
5	16QAM	25	0	21.16	21.20	21.40	21.27	21.18		
5	64QAM	1	0	21.05	21.03	21.25	21.14	21.01		
5	64QAM	1	12	21.06	20.92	21.17	21.00	20.98	21	3
5	64QAM	1	24	20.92	20.94	21.07	21.03	20.83		
5	64QAM	12	0	20.09	20.10	20.26	20.20	20.07		
5	64QAM	12	7	20.10	20.03	20.26	20.16	20.04	19	5
5	64QAM	12	13	20.01	19.98	20.16	20.12	19.86		
5	64QAM	25	0	19.90	19.84	20.09	20.04	19.95		
5	256QAM	1	0	18.08	18.05	18.21	18.02	18.11	19	5
5	256QAM	1	12	18.12	18.05	18.07	18.06	18.06		
5	256QAM	1	24	17.97	18.00	18.11	18.10	18.05		
5	256QAM	12	0	18.07	18.07	18.11	18.02	18.04	19	5
5	256QAM	12	7	18.04	18.04	18.07	18.08	17.95		
5	256QAM	12	13	18.03	17.99	18.08	18.00	18.00		
5	256QAM	25	0	17.96	17.87	18.07	17.84	17.92		



Ant 5

Band 42 FCC Part27Q 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				42190	42590	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	22.69	22.81	22.62	23.5	0
20	QPSK	1	49	22.68	22.75	22.60		
20	QPSK	1	99	22.58	22.68	22.54		
20	QPSK	50	0	21.85	21.88	21.82	23	0.5
20	QPSK	50	24	21.75	21.82	21.68		
20	QPSK	50	50	21.71	21.76	21.69		
20	QPSK	100	0	21.71	21.84	21.78		
20	16QAM	1	0	21.66	21.76	21.63	23	0.5
20	16QAM	1	49	21.59	21.73	21.62		
20	16QAM	1	99	21.60	21.67	21.60		
20	16QAM	50	0	20.83	20.93	20.86	22	1.5
20	16QAM	50	24	20.74	20.86	20.72		
20	16QAM	50	50	20.77	20.81	20.68		
20	16QAM	100	0	20.72	20.86	20.73		
20	64QAM	1	0	20.58	20.65	20.55	22	1.5
20	64QAM	1	49	20.53	20.60	20.46		
20	64QAM	1	99	20.44	20.54	20.40		
20	64QAM	50	0	19.87	19.94	19.83	21	2.5
20	64QAM	50	24	19.84	19.90	19.86		
20	64QAM	50	50	19.72	19.82	19.78		
20	64QAM	100	0	19.77	19.87	19.72		
20	256QAM	1	0	17.90	17.94	17.80	19	4.5
20	256QAM	1	49	17.73	17.87	17.82		
20	256QAM	1	99	17.69	17.82	17.72		
20	256QAM	50	0	17.74	17.78	17.69	19	4.5
20	256QAM	50	24	17.67	17.71	17.60		
20	256QAM	50	50	17.53	17.66	17.55		
20	256QAM	100	0	17.58	17.62	17.50		
Channel				42165	42590	43015		
Frequency (MHz)				3457.5	3500	3542.5		
15	QPSK	1	0	22.55	22.75	22.51	23.5	0
15	QPSK	1	37	22.54	22.72	22.52		
15	QPSK	1	74	22.44	22.64	22.45		
15	QPSK	36	0	21.80	21.77	21.69	23	0.5
15	QPSK	36	20	21.62	21.74	21.62		
15	QPSK	36	39	21.57	21.67	21.56		
15	QPSK	75	0	21.58	21.70	21.74		
15	16QAM	1	0	21.57	21.72	21.50	23	0.5
15	16QAM	1	37	21.44	21.59	21.55		
15	16QAM	1	74	21.46	21.52	21.54		
15	16QAM	36	0	20.80	20.79	20.76	22	1.5
15	16QAM	36	20	20.71	20.77	20.67		



15	16QAM	36	39	20.65	20.69	20.56		
15	16QAM	75	0	20.66	20.78	20.64		
15	64QAM	1	0	20.48	20.51	20.45	22	1.5
15	64QAM	1	37	20.39	20.52	20.41		
15	64QAM	1	74	20.40	20.41	20.31		
15	64QAM	36	0	19.82	19.85	19.70	21	2.5
15	64QAM	36	20	19.80	19.83	19.82		
15	64QAM	36	39	19.64	19.67	19.71		
15	64QAM	75	0	19.70	19.81	19.58		
15	256QAM	1	0	17.77	17.87	17.70	19	4.5
15	256QAM	1	37	17.61	17.74	17.73		
15	256QAM	1	74	17.66	17.75	17.68		
15	256QAM	36	0	17.71	17.73	17.64	19	4.5
15	256QAM	36	20	17.58	17.64	17.55		
15	256QAM	36	39	17.44	17.59	17.48		
15	256QAM	75	0	17.45	17.52	17.43		
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455	3500	3545		
10	QPSK	1	0	22.56	22.77	22.47	23.5	0
10	QPSK	1	25	22.59	22.66	22.53		
10	QPSK	1	49	22.51	22.62	22.44		
10	QPSK	25	0	21.79	21.75	21.69	23	0.5
10	QPSK	25	12	21.65	21.77	21.53		
10	QPSK	25	25	21.58	21.64	21.59		
10	QPSK	50	0	21.67	21.80	21.71		
10	16QAM	1	0	21.60	21.72	21.53	23	0.5
10	16QAM	1	25	21.49	21.64	21.49		
10	16QAM	1	49	21.49	21.56	21.54		
10	16QAM	25	0	20.69	20.90	20.73	22	1.5
10	16QAM	25	12	20.70	20.83	20.60		
10	16QAM	25	25	20.74	20.66	20.58		
10	16QAM	50	0	20.60	20.77	20.62		
10	64QAM	1	0	20.45	20.51	20.45	22	1.5
10	64QAM	1	25	20.40	20.56	20.38		
10	64QAM	1	49	20.34	20.44	20.27		
10	64QAM	25	0	19.81	19.86	19.79	21	2.5
10	64QAM	25	12	19.73	19.76	19.80		
10	64QAM	25	25	19.66	19.69	19.69		
10	64QAM	50	0	19.65	19.78	19.59		
10	256QAM	1	0	17.79	17.86	17.71	19	4.5
10	256QAM	1	25	17.59	17.84	17.79		
10	256QAM	1	49	17.61	17.73	17.62		
10	256QAM	25	0	17.60	17.73	17.66	19	4.5
10	256QAM	25	12	17.59	17.63	17.57		
10	256QAM	25	25	17.42	17.51	17.43		
10	256QAM	50	0	17.51	17.58	17.37		
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3452.5	3500	3547.5		



5	QPSK	1	0	22.65	22.68	22.50	23.5	0
5	QPSK	1	12	22.56	22.60	22.53		
5	QPSK	1	24	22.45	22.61	22.51		
5	QPSK	12	0	21.78	21.81	21.76	23	0.5
5	QPSK	12	7	21.66	21.76	21.57		
5	QPSK	12	13	21.57	21.62	21.57		
5	QPSK	25	0	21.68	21.75	21.66	23	0.5
5	16QAM	1	0	21.55	21.64	21.57		
5	16QAM	1	12	21.49	21.61	21.57		
5	16QAM	1	24	21.56	21.57	21.50	22	1.5
5	16QAM	12	0	20.74	20.82	20.81		
5	16QAM	12	7	20.69	20.77	20.61		
5	16QAM	12	13	20.65	20.75	20.56	22	1.5
5	16QAM	25	0	20.59	20.79	20.63		
5	64QAM	1	0	20.50	20.53	20.47		
5	64QAM	1	12	20.42	20.51	20.39	22	1.5
5	64QAM	1	24	20.30	20.44	20.35		
5	64QAM	12	0	19.81	19.79	19.71		
5	64QAM	12	7	19.79	19.80	19.73	21	2.5
5	64QAM	12	13	19.57	19.74	19.67		
5	64QAM	25	0	19.73	19.74	19.65		
5	256QAM	1	0	17.86	17.89	17.69	19	4.5
5	256QAM	1	12	17.65	17.81	17.68		
5	256QAM	1	24	17.58	17.71	17.62		
5	256QAM	12	0	17.66	17.75	17.59	19	4.5
5	256QAM	12	7	17.52	17.67	17.53		
5	256QAM	12	13	17.39	17.62	17.41		
5	256QAM	25	0	17.47	17.50	17.46		

<LTE Carrier Aggregation>

General Note:

1. This device supports Carrier Aggregation on downlink for inter and intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.
2. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need combination, and for this device that all the configurations were choose to power measurement.
3. The gray color table is covered by other combinations and no need to verify power, but Only LTE Band 29/46 is limited to Scell.

2CC Downlink Carrier Aggregation			3CC Downlink Carrier Aggregation			4CC Downlink Carrier Aggregation		
Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset
1	CA_2C	3CC-7	1	CA_41D	4CC-1	1	CA_41A-41D	
2	CA_5B	3CC-5	2	CA_42D		2	CA_4A-4A-5B	
3	CA_7B		3	CA_66D	4CC-8	3	CA_5A-5A-66A-66A	
4	CA_7C	3CC-13	4	CA_41A-41C	4CC-13	4	CA_5A-5A-66B	
5	CA_38C		5	CA_2A-5B		5	CA_5A-5A-66C	
6	CA_41C	3CC-23	6	CA_2A-7A-7A		6	CA_5A-66A-66C	
7	CA_42C		7	CA_2C-5A		7	CA_5A-66A-66B	
8	CA_66B	3CC-18	8	CA_4A-4A-5A		8	CA_5A-66D	
9	CA_66C	3CC-19	9	CA_4A-4A-7A		9	CA_5B-66A-66A	
10	CA_2A-2A		10	CA_4A-4A-71A		10	CA_5B-66B	
11	CA_4A-4A	3CC-8	11	CA_4A-5B	4CC-2	11	CA_5B-66C	
12	CA_5A-5A	3CC-14	12	CA_4A-7A-7A		12	CA_7C-66A-66A	
13	CA_7A-7A	3CC-12	13	CA_4A-7C		13	CA_41A-41A-41C	
14	CA_41A-41A	4CC-13	14	CA_5A-5A-66A	4CC-3	14	CA_5A-7C-66A	
15	CA_66A-66A	4CC-12	15	CA_5A-7A-7A		15		
16	CA_2A-4A	3CC-24	16	CA_5A-7C	4CC-14	16		
17	CA_2A-5A		17	CA_5A-66A-66A	4CC-3	17		
18	CA_2A-7A	3CC-24	18	CA_5A-66B	4CC-4	18		
19	CA_2A-71A		19	CA_5A-66C	4CC-6	19		
20	CA_4A-5A	3CC-8	20	CA_5B-66A	4CC-9	20		
21	CA_4A-7A	3CC-9	21	CA_7A-66A-66A		21		
22	CA_4A-71A	3CC-10	22	CA_7C-66A	4CC-14	22		
23	CA_5A-7A	3CC-15	23	CA_41C-42A		23		
24	CA_5A-38A		24	CA_2A-4A-7A		24		
25	CA_5A-41A		25	CA_5A-7A-66A		25		
26	CA_5A-66A	3CC-14	26			26		
27	CA_7A-66A	3CC-21	27			27		
28	CA_41A-42A		28			28		

LTE Carrier Aggregation Conducted Power (Downlink)

- i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
- ii. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- iii. The device supports downlink four carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- v. For inter-band CA, the SCC selected highest bandwidth and near the middle of its transmission band. For SCC DL RB size and offset will base on the PCC corresponding RB allocation.
- vi. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- vii. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lceil \frac{BW_{\text{Channel}(1)} + BW_{\text{Channel}(2)} - 0.1|BW_{\text{Channel}(1)} - BW_{\text{Channel}(2)}|}{0.6} \right\rceil 0.3 \text{ [MHz]}$$

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Band 4/7/38/41/42/66 only. Uplink transmission is limited to a single output stream. Power measurements were performed with downlink 4x4 MIMO active for the configuration with highest measured maximum conducted power with 4x4 downlink MIMO inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC Guidance, SAR for downlink 4x4 MIMO was not needed since the maximum average output power in 4x4 downlink MIMO mode was not > 0.25 dB higher than the maximum output power with downlink 4x4 MIMO inactive. When carrier aggregation is applicable, power measurements were performed with the downlink carrier aggregation and 4x4 DL MIMO active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

4X4 MIMO	Band
	LTE Band 4/7/38/41/42/66



<Two Carrier power verification>

CA List	PCC									SCC					Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	Offset		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)	
CA_2A-2A	Band 2	Ant1	20M	1880	18900	QPSK	1	0			Band 2	5M	1987.5		1175		22.45
CA_2A-5A	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		22.41	22.49	
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		22.89	23.05	
CA_2A-71A	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 71	20M	683	68786		22.42	22.49	
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		22.85	22.91	
CA_5A-38A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 38	20M	2595	38000	4x4MIMO	22.82	23.05	
	Band 38	Ant2	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.05	23.13	
CA_5A-41A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.80	23.05	
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.01	23.16	
CA_7B	Band 7	Ant2	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544.3	3193	4x4MIMO	23.94	23.95	
CA_38C	Band 38	Ant2	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	23.06	23.13	
CA_42C	Band 42	Ant5	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	22.78	22.81	
CA_41A-42A	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.97	23.16	
	Band 42	Ant5	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.68	22.81	



<Three Carrier power verification>

3CA List	PCC									SCC1					SCC2				Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-4A-7A	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.41	22.49
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		22.51	22.66
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		Band 4	20M	2132.5	2175	4x4MIMO	23.89	23.95
CA_2A-5B	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		22.37	22.49
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 2	20M	1960	900		22.96	23.05
CA_2A-7A-7A	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.37	22.49
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1960	900		23.92	23.95
CA_2C-5A	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 2	20M	1979.8	1098		Band 5	10M	881.5	2525		22.41	22.49
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 2	20M	1979.8	1098		22.93	23.05
CA_4A-4A-5A	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525		22.50	22.66
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.93	23.05
CA_4A-4A-7A	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.61	22.66
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.89	23.95
CA_4A-4A-71A	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 71	20M	683	68786		22.58	22.66
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.85	22.91
CA_4A-7C	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.60	22.66
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.86	23.95
CA_4A-7A-7A	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.58	22.66
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.82	23.95
CA_5A-7A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.01	23.05
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 5	10M	881.5	2525		23.86	23.95
CA_7A-66A-66A	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.87	23.95
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.52	22.69
CA_41C-42A	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.08	23.16
	Band 42	Ant5	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.72	22.81
CA_5A-7A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.95	23.05
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	23.82	23.95
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525		22.58	22.69
CA_42D	Band 42	Ant5	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.6	42986	4x4MIMO	22.70	22.81



<Four Carrier power verification>

Configure	PCC									SCC1					SCC2					SCC3					Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_4A-4A-5B	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		22.53	22.66
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.93	23.05
CA_5B-66B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.94	23.05
	Band 66	Ant1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		22.61	22.69
CA_5B-66C	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.99	23.05
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		22.65	22.69
CA_5B-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.97	23.05
	Band 66	Ant1	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		22.59	22.69
CA_5A-5A-66B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.92	23.05
	Band 66	Ant1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		22.66	22.69
CA_5A-5A-66C	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.94	23.05
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		22.58	22.69
CA_5A-5A-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.92	23.05
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		22.64	22.69
CA_5A-7C-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.02	23.05
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.85	23.95
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525		22.64	22.69
CA_5A-66D	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2145	66786	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 66	20M	2184.6	67182	4x4MIMO	22.90	23.05
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 66	20M	2184.6	67182	4x4MIMO	Band 5	5M	891.5	2625		22.58	22.69
CA_5A-66A-66B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2120	66536	4x4MIMO	Band 66	5M	2145.7	66793	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	23.00	23.05
	Band 66	Ant1	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	5M	2145.7	66793	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 5	5M	891.5	2625		22.62	22.69
CA_5A-66A-66C	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2120	66536	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	23.00	23.05
	Band 66	Ant1	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	Band 5	5M	891.5	2625		22.61	22.69
CA_7C-66A-66A	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.91	23.95
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.57	22.69
CA_41A-41D	Band 41	Ant2	20M	2506	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2640.4	41094	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	23.12	23.16
CA_41A-41A-41C	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	Band 41	20M	2506	39750	4x4MIMO	Band 41	20M	2525.8	39948	4x4MIMO	23.10	23.16

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna Tx
CA_5B	Ant0
CA_7C	Ant2
CA_38C	Ant2
CA_41C	Ant2
CA_66B	Ant1
CA_66C	Ant1

<Intra-band>

General Note:

- i. The device supports intra-band uplink carrier aggregation for LTE B5/7/66/41/48 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. The device supports uplink carrier aggregation with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the 3GPP requirement.
- iii. According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- iv. Additional SAR measurement for LTE UL CA with other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.
- v. LTE CA_66B test was covered by CA_66C; therefore, SAR was only assessed for CA_66C.

<UL CA Default Power>

CA_5B_Ant0								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.77	24.00
20476	20575	QPSK	1	49	1	0	22.83	24.00
20600	20501	QPSK	1	0	1	49	22.71	24.00

CA_66C_Ant1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.42	24.00
132322	132520	QPSK	1	99	1	0	22.49	24.00
132572	132374	QPSK	1	0	1	99	22.42	24.00



CA_66B_Ant1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.35	24.00
132322	132415	QPSK	1	74	1	0	22.41	24.00
132597	132504	QPSK	1	0	1	24	22.39	24.00

CA_7C_Ant2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	23.71	25.00
21100	21298	QPSK	1	99	1	0	23.74	25.00
21350	21152	QPSK	1	0	1	99	23.59	25.00

CA_38C_Ant2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.88	24.00
37901	38099	QPSK	1	99	1	0	22.90	24.00
38150	37952	QPSK	1	0	1	99	22.87	24.00

CA_41C_Ant2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.85	24.00
40185	40383	QPSK	1	99	1	0	22.76	24.00
40620	40818	QPSK	1	99	1	0	22.94	24.00
41055	41253	QPSK	1	99	1	0	22.91	24.00
41490	41292	QPSK	1	0	1	99	22.87	24.00

<UL CA Reduced Power>

CA_7C_Ant2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.28	23.40
21100	21298	QPSK	1	99	1	0	22.35	23.40
21350	21152	QPSK	1	0	1	99	22.32	23.40

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n5/n7/n66/n71/n38/n77/n78 is NSA mode.
2. 5G NR n2/n5/n7/n66/n71/n38/n41/n77/n78 is SA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s QPSK and the reported SAR for the DFT-s QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
 - c. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
 - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
 - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - g. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
4. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
5. 5G NR n77 / 78 supports HPUE, HPUE power and SAR testing performed separately.
6. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level, so SA SAR can represent NSA mode SAR.
7. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
8. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
9. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
10. 5G NR n77/n78 supports UL MIMO.

<3GPP 38.101 MPR for EN-DC>

Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$ $\leq 0.5^2$	$\leq 1.2^1$ $\leq 0.5^2$	$\leq 0.2^1$ 0 ²
	QPSK		≤ 1	0
	16 QAM		≤ 2	≤ 1
	64 QAM		≤ 2.5	
	256 QAM		≤ 4.5	
CP-OFDM	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM		≤ 3.5	
	256 QAM		≤ 6.5	

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5	≤ 0.5	0
	QPSK	≤ 3.5	≤ 1	0
	16 QAM	≤ 3.5	≤ 2	≤ 1
	64 QAM	≤ 3.5		≤ 2.5
	256 QAM		≤ 4.5	
CP-OFDM	QPSK	≤ 3.5	≤ 3	≤ 1.5
	16 QAM	≤ 3.5	≤ 3	≤ 2
	64 QAM		≤ 3.5	
	256 QAM		≤ 6.5	

<EN-DC combination>

ENDC	LTE TX	NR TX
DC_2A_n5A	Ant1	Ant0
DC_2A_n7A	Ant1	Ant2
DC_2A_n78A	Ant1	Ant5
DC_5A_n7A	Ant0	Ant2
DC_5A_n38A	Ant0	Ant2
DC_5A_n66A	Ant0	Ant1
DC_5A_n78A	Ant0	Ant5
DC_7A_n2A	Ant2	Ant1
DC_7A_n5A	Ant2	Ant0
DC_7A_n66A	Ant2	Ant1
DC_7A_n77A	Ant2	Ant5
DC_7A_n78A	Ant2	Ant5
DC_38A_n78A	Ant2	Ant5
DC_41A_n77A	Ant2	Ant5
DC_41A_n78A	Ant2	Ant5
DC_66A_n7A	Ant1	Ant2
DC_66A_n78A	Ant1	Ant5
DC_2A_n71A	Ant1	Ant0
DC_7A-66A-66A_n5A*	B7: Ant2 B66: Ant1	Ant0

Note: * For EN-DC combinations with uplink assigned to one LTE band and one NR band only.

NR UL MIMO Bands Configuration:

NR UL MIMO	TX Ant	TX Ant
n77/n78	Ant1	Ant5



Default Power Mode

Ant0

n5 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.23	23.30	23.16	24.0	0.0
20	PI/2 BPSK	1	53	23.23	23.32	23.17		
20	PI/2 BPSK	1	104	23.16	23.21	23.19		
20	PI/2 BPSK	50	0	22.79	22.85	22.80	23.5	0.5
20	PI/2 BPSK	50	28	23.25	23.31	23.27	24.0	0.0
20	PI/2 BPSK	50	56	22.61	22.73	22.66	23.5	0.5
20	PI/2 BPSK	100	0	22.77	22.83	22.74		
20	QPSK	1	1	23.33	23.37	23.27	24.0	0.0
20	QPSK	1	53	23.29	23.31	23.27		
20	QPSK	1	104	23.07	23.17	23.04		
20	QPSK	50	0	22.29	22.32	22.27	23.0	1.0
20	QPSK	50	28	23.31	23.34	23.31	24.0	0.0
20	QPSK	50	56	22.21	22.28	22.14	23.0	1.0
20	QPSK	100	0	22.20	22.36	22.26		
20	16QAM	1	1	22.25	22.39	22.30	23.0	1.0
20	64QAM	1	1	20.79	20.91	20.81	21.5	2.5
20	256QAM	1	1	18.62	18.74	18.63	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.25	23.32	23.15	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.29	23.31	23.23	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.30	23.28	23.16	24.0	0.0



n71 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.03	23.12	22.96	24.0	0.0
20	PI/2 BPSK	1	53	23.16	23.19	23.02		
20	PI/2 BPSK	1	104	22.93	23.08	22.94		
20	PI/2 BPSK	50	0	22.65	22.67	22.50	23.5	0.5
20	PI/2 BPSK	50	28	23.11	23.18	23.10	24.0	0.0
20	PI/2 BPSK	50	56	22.52	22.65	22.58	23.5	0.5
20	PI/2 BPSK	100	0	22.54	22.63	22.58		
20	QPSK	1	1	23.23	23.30	23.17	24.0	0.0
20	QPSK	1	53	23.04	23.14	23.09		
20	QPSK	1	104	22.90	23.01	22.92		
20	QPSK	50	0	22.17	22.22	22.09	23.0	1.0
20	QPSK	50	28	23.16	23.22	23.16	24.0	0.0
20	QPSK	50	56	22.02	22.11	21.97	23.0	1.0
20	QPSK	100	0	22.12	22.27	22.18		
20	16QAM	1	1	21.87	22.03	21.96	23.0	1.0
20	64QAM	1	1	20.31	20.46	20.33	21.5	2.5
20	256QAM	1	1	18.26	18.28	18.11	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.10	23.26	23.12	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.11	23.27	23.12	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.17	23.16	23.14	24.0	0.0



n41 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	23.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.78	21.77	21.73		
100	PI/2 BPSK	1	137	21.69	21.72	21.62	22.5	0.5
100	PI/2 BPSK	1	271	21.56	21.61	21.41		
100	PI/2 BPSK	135	0	20.96	21.14	21.10		
100	PI/2 BPSK	135	69	21.40	21.48	21.28	23.0	0.0
100	PI/2 BPSK	135	138	20.77	20.83	20.62		
100	PI/2 BPSK	270	0	20.92	20.95	20.76		
100	QPSK	1	1	21.79	21.85	21.76	23.0	0.0
100	QPSK	1	137	21.69	21.79	21.68		
100	QPSK	1	271	21.56	21.65	21.62		
100	QPSK	135	0	20.37	20.59	20.52	22.0	1.0
100	QPSK	135	69	21.54	21.57	21.49		
100	QPSK	135	138	20.27	20.42	20.33		
100	QPSK	270	0	20.35	20.49	20.44	22.0	1.0
100	16QAM	1	1	20.61	20.81	20.79		
100	64QAM	1	1	19.15	19.29	19.07		
100	256QAM	1	1	16.78	16.94	16.73	18.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.66	21.69	21.55	23.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.61	21.72	21.59	23.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.62	21.79	21.63	23.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	21.68	21.65	21.56	23.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.69	21.63	21.74	23.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.66	21.83	21.58	23.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.66	21.84	21.68	23.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.68	21.80	21.67	23.0	0.0



Part270 n77 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	22.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.09	21.25	21.12		
100	PI/2 BPSK	1	137	20.96	21.09	21.06	22.0	0.0
100	PI/2 BPSK	1	271	21.00	21.12	21.03		
100	PI/2 BPSK	135	0	20.92	20.98	20.94		
100	PI/2 BPSK	135	69	21.04	21.12	20.98	22.0	0.0
100	PI/2 BPSK	135	138	20.87	20.85	20.85	22.0	0.0
100	PI/2 BPSK	270	0	20.77	20.90	20.76		
100	QPSK	1	1	21.31	21.36	21.19		
100	QPSK	1	137	21.10	21.20	21.09	22.0	0.0
100	QPSK	1	271	21.20	21.22	21.18		
100	QPSK	135	0	20.95	20.97	20.95		
100	QPSK	135	69	21.23	21.26	21.24	22.0	0.0
100	QPSK	135	138	20.75	20.92	20.78	22.0	0.0
100	QPSK	270	0	20.87	20.96	20.75		
100	16QAM	1	1	20.81	21.00	20.82		
100	64QAM	1	1	20.51	20.63	20.48	21.5	0.5
100	256QAM	1	1	18.39	18.52	18.41	19.5	2.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.23	21.33	21.06	22.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.16	21.25	21.11	22.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.16	21.32	21.10	22.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.16	21.28	21.09	22.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.18	21.29	21.12	22.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.15	21.20	21.08	22.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	21.21	21.33	21.08	22.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.29	21.26	21.10	22.0	0.0



Part27Q n77 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		22.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		20.71			
100	PI/2 BPSK	1	137		20.65		22.0	0.0
100	PI/2 BPSK	1	271		20.58		22.0	0.0
100	PI/2 BPSK	135	0		20.50		22.0	0.0
100	PI/2 BPSK	135	69		20.65		22.0	0.0
100	PI/2 BPSK	135	138		20.58		22.0	0.0
100	PI/2 BPSK	270	0		20.62		22.0	0.0
100	QPSK	1	1		20.76		22.0	0.0
100	QPSK	1	137		20.63			
100	QPSK	1	271		20.68			
100	QPSK	135	0		20.63		22.0	0.0
100	QPSK	135	69		20.72		22.0	0.0
100	QPSK	135	138		20.64		22.0	0.0
100	QPSK	270	0		20.68		22.0	0.0
100	16QAM	1	1		20.54		22.0	0.0
100	64QAM	1	1		20.36		21.5	0.5
100	256QAM	1	1		18.27		19.5	2.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	20.65	20.66	20.58	22.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.59	20.68	20.46	22.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	20.52	20.71	20.66	22.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	20.74	20.68	20.47	22.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	20.69	20.62	20.58	22.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	20.66	20.59	20.53	22.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	20.60	20.75	20.61	22.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	20.66	20.60	20.53	22.0	0.0



Part270 n78 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	22.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		21.16		22.0	0.0
100	PI/2 BPSK	1	137		21.08			
100	PI/2 BPSK	1	271		21.03			
100	PI/2 BPSK	135	0		21.01		22.0	0.0
100	PI/2 BPSK	135	69		21.01		22.0	0.0
100	PI/2 BPSK	135	138		20.89		22.0	0.0
100	PI/2 BPSK	270	0		20.93			
100	QPSK	1	1		21.22		22.0	0.0
100	QPSK	1	137		21.17			
100	QPSK	1	271		21.11			
100	QPSK	135	0		21.03		22.0	0.0
100	QPSK	135	69		21.17		22.0	0.0
100	QPSK	135	138		21.05		22.0	0.0
100	QPSK	270	0		21.13			
100	16QAM	1	1		21.02		22.0	0.0
100	64QAM	1	1		20.55		21.5	0.5
100	256QAM	1	1		18.35		19.5	2.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.04	21.16	21.11	22.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.08	21.11	21.02	22.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.14	21.17	21.00	22.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.16	21.20	20.52	22.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.04	21.09	20.99	22.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.99	20.19	21.05	22.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	20.11	21.20	21.05	22.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.00	21.13	21.04	22.0	0.0



Part27Q n78 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		22.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		20.64			
100	PI/2 BPSK	1	137		20.58		22.0	0.0
100	PI/2 BPSK	1	271		20.51		22.0	0.0
100	PI/2 BPSK	135	0		20.46		22.0	0.0
100	PI/2 BPSK	135	69		20.68		22.0	0.0
100	PI/2 BPSK	135	138		20.42		22.0	0.0
100	PI/2 BPSK	270	0		20.49		22.0	0.0
100	QPSK	1	1		20.70		22.0	0.0
100	QPSK	1	137		20.65			
100	QPSK	1	271		20.68			
100	QPSK	135	0		20.62		22.0	0.0
100	QPSK	135	69		20.64		22.0	0.0
100	QPSK	135	138		20.45		22.0	0.0
100	QPSK	270	0		20.53		22.0	0.0
100	16QAM	1	1		20.35		22.0	0.0
100	64QAM	1	1		20.29		21.5	0.5
100	256QAM	1	1		18.17		19.5	2.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	20.57	20.62	20.51	22.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.56	20.66	20.58	22.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	20.56	20.62	20.62	22.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	20.68	20.59	20.68	22.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	20.67	20.66	20.67	22.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	20.61	20.68	20.62	22.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	20.61	20.65	20.56	22.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	20.68	20.67	20.61	22.0	0.0



Ant1

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	1880	1900		
20	PI/2 BPSK	1	1	22.93	22.98	22.92	24.0	0.0
20	PI/2 BPSK	1	53	22.91	22.94	22.90		
20	PI/2 BPSK	1	104	22.81	22.89	22.83		
20	PI/2 BPSK	50	0	22.41	22.43	22.27	23.5	0.5
20	PI/2 BPSK	50	28	22.88	22.96	22.88	24.0	0.0
20	PI/2 BPSK	50	56	22.38	22.44	22.42	23.5	0.5
20	PI/2 BPSK	100	0	22.35	22.43	22.35		
20	QPSK	1	1	22.83	23.00	22.92	24.0	0.0
20	QPSK	1	53	22.85	22.96	22.87		
20	QPSK	1	104	22.76	22.85	22.80		
20	QPSK	50	0	21.89	22.00	21.97	23.0	1.0
20	QPSK	50	28	22.76	22.93	22.79	24.0	0.0
20	QPSK	50	56	21.79	21.96	21.83	23.0	1.0
20	QPSK	100	0	21.91	21.98	21.81		
20	16QAM	1	1	21.90	22.00	21.97	23.0	1.0
20	64QAM	1	1	20.42	20.56	20.46	21.5	2.5
20	256QAM	1	1	18.34	18.41	18.32	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.72	22.88	22.85	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	22.69	22.89	22.79	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	22.80	22.92	22.87	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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	23.08	23.21	23.13	24.0	0.0
40	PI/2 BPSK	1	108	23.02	23.15	23.05		
40	PI/2 BPSK	1	214	23.01	23.08	23.03		
40	PI/2 BPSK	108	0	22.54	22.61	22.54	23.5	0.5
40	PI/2 BPSK	108	54	23.05	23.18	23.04	24.0	0.0
40	PI/2 BPSK	108	108	22.63	22.66	22.54	23.5	0.5
40	PI/2 BPSK	216	0	22.49	22.64	22.60		
40	QPSK	1	1	23.09	23.27	23.18	24.0	0.0
40	QPSK	1	108	23.14	23.20	23.03		
40	QPSK	1	214	23.02	23.04	22.92		
40	QPSK	108	0	22.09	22.12	22.07	23.0	1.0
40	QPSK	108	54	23.18	23.23	23.06	24.0	0.0
40	QPSK	108	108	22.00	22.15	22.08	23.0	1.0
40	QPSK	216	0	22.14	22.18	22.12		
40	16QAM	1	1	21.83	21.85	21.69	23.0	1.0
40	64QAM	1	1	20.19	20.31	20.15	21.5	2.5
40	256QAM	1	1	18.14	18.21	18.10	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.00	23.12	23.03	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.01	23.25	23.13	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.96	23.21	23.13	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.92	23.24	23.02	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.97	23.22	23.05	24.0	0.0



Part270 n77 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				650000	656000	662000	23.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.98	22.08	21.99		
100	PI/2 BPSK	1	137	21.97	22.06	21.94	22.5	0.5
100	PI/2 BPSK	1	271	21.87	21.91	21.80		
100	PI/2 BPSK	135	0	21.55	21.57	21.50		
100	PI/2 BPSK	135	69	21.96	22.05	22.00	23.0	0.0
100	PI/2 BPSK	135	138	21.51	21.49	21.39		
100	PI/2 BPSK	270	0	21.41	21.59	21.45		
100	QPSK	1	1	21.98	22.13	22.00	23.0	0.0
100	QPSK	1	137	21.98	22.06	21.89		
100	QPSK	1	271	21.89	21.95	21.93		
100	QPSK	135	0	20.85	21.02	20.85	22.0	1.0
100	QPSK	135	69	21.99	22.07	21.99		
100	QPSK	135	138	20.82	21.02	20.93		
100	QPSK	270	0	20.94	21.09	20.86	22.0	1.0
100	16QAM	1	1	20.93	21.10	20.92		
100	64QAM	1	1	19.41	19.39	19.38		
100	256QAM	1	1	17.12	17.15	17.10	18.5	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.88	22.03	21.92	23.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.95	22.01	21.92	23.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.88	22.05	21.88	23.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.84	22.04	21.91	23.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.86	22.09	21.94	23.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.83	22.08	21.91	23.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	21.88	21.98	21.94	23.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.85	22.10	21.91	23.0	0.0



Part27Q n77 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					633334		23.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.14		23.0	0.0
100	PI/2 BPSK	1	137		22.05			
100	PI/2 BPSK	1	271		21.94		22.5	0.5
100	PI/2 BPSK	135	0		21.57			
100	PI/2 BPSK	135	69		21.93		23.0	0.0
100	PI/2 BPSK	135	138		21.56			
100	PI/2 BPSK	270	0		21.64		22.5	0.5
100	QPSK	1	1		22.18			
100	QPSK	1	137		22.04		23.0	0.0
100	QPSK	1	271		21.95			
100	QPSK	135	0		21.07		22.0	1.0
100	QPSK	135	69		22.04			
100	QPSK	135	138		21.05		23.0	0.0
100	QPSK	270	0		21.14			
100	16QAM	1	1		21.01		22.0	1.0
100	64QAM	1	1		19.65			
100	256QAM	1	1		17.16		18.5	4.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.09	22.05	21.84	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.03	22.12	21.95	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.08	22.11	21.91	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.06	22.13	21.86	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.98	22.10	21.92	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.04	22.09	21.86	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.05	22.03	21.84	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.99	22.11	21.86	23.0	0.0



Part270 n78 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				650000	650000	650000	23.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		22.01			
100	PI/2 BPSK	1	137		22.02		22.5	0.5
100	PI/2 BPSK	1	271		21.99			
100	PI/2 BPSK	135	0		21.42		23.0	0.0
100	PI/2 BPSK	135	69		22.00			
100	PI/2 BPSK	135	138		21.49		22.5	0.5
100	PI/2 BPSK	270	0		21.49			
100	QPSK	1	1		22.09		23.0	0.0
100	QPSK	1	137		22.00			
100	QPSK	1	271		21.87			
100	QPSK	135	0		20.90		22.0	1.0
100	QPSK	135	69		21.91			
100	QPSK	135	138		20.90		22.0	1.0
100	QPSK	270	0		20.89			
100	16QAM	1	1		21.02		22.0	1.0
100	64QAM	1	1		19.57		20.5	2.5
100	256QAM	1	1		17.10		18.5	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.95	21.98	21.90	23.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.89	22.05	21.97	23.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.90	22.00	21.92	23.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.90	21.97	21.88	23.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.96	21.98	21.93	23.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.92	21.96	21.89	23.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.97	21.95	21.93	23.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.98	21.97	21.92	23.0	0.0



Part27Q n78 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					633334		23.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		21.91		23.0	0.0
100	PI/2 BPSK	1	137		21.87			
100	PI/2 BPSK	1	271		21.92			
100	PI/2 BPSK	135	0		21.40		22.5	0.5
100	PI/2 BPSK	135	69		21.93		23.0	0.0
100	PI/2 BPSK	135	138		21.44		22.5	0.5
100	PI/2 BPSK	270	0		21.43			
100	QPSK	1	1		22.02		23.0	0.0
100	QPSK	1	137		21.85			
100	QPSK	1	271		21.86			
100	QPSK	135	0		20.87		22.0	1.0
100	QPSK	135	69		21.99		23.0	0.0
100	QPSK	135	138		20.84		22.0	1.0
100	QPSK	270	0		20.98			
100	16QAM	1	1		20.89		22.0	1.0
100	64QAM	1	1		19.44		20.5	2.5
100	256QAM	1	1		17.03		18.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.85	21.97	21.91	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.85	21.89	21.90	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.87	21.93	21.86	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.85	21.98	21.88	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.89	21.93	21.87	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.88	21.92	21.80	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.92	21.97	21.85	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.88	21.95	21.82	23.0	0.0



Ant2

n7 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				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	23.35	23.44	23.32	24.0	0.0
40	PI/2 BPSK	1	108	23.34	23.41	23.34		
40	PI/2 BPSK	1	214	23.30	23.34	23.29		
40	PI/2 BPSK	108	0	22.97	22.99	22.88	23.5	0.5
40	PI/2 BPSK	108	54	23.27	23.41	23.29	24.0	0.0
40	PI/2 BPSK	108	108	23.01	23.05	22.89	23.5	0.5
40	PI/2 BPSK	216	0	22.95	22.99	22.96		
40	QPSK	1	1	23.41	23.46	23.36	24.0	0.0
40	QPSK	1	108	23.26	23.43	23.27		
40	QPSK	1	214	23.23	23.38	23.36		
40	QPSK	108	0	22.51	22.53	22.41	23.0	1.0
40	QPSK	108	54	23.29	23.39	23.22	24.0	0.0
40	QPSK	108	108	22.47	22.61	22.46	23.0	1.0
40	QPSK	216	0	22.41	22.47	22.33		
40	16QAM	1	1	22.18	22.26	22.14	23.0	1.0
40	64QAM	1	1	20.61	20.74	20.57	21.5	2.5
40	256QAM	1	1	18.74	18.80	18.68	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.32	23.35	23.34	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.29	23.44	23.31	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.30	23.43	23.26	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.25	23.43	23.32	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.36	23.36	23.23	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.31	23.41	23.29	24.0	0.0



n38 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				518004	519000	519996	24.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	23.15	23.28	23.15		
40	PI/2 BPSK	1	53	23.17	23.23	23.10	23.5	0.5
40	PI/2 BPSK	1	104	23.08	23.18	23.04		
40	PI/2 BPSK	50	0	22.68	22.75	22.70		
40	PI/2 BPSK	50	28	23.05	23.19	23.11	23.5	0.5
40	PI/2 BPSK	50	56	22.68	22.74	22.58		
40	PI/2 BPSK	100	0	22.66	22.81	22.64		
40	QPSK	1	1	23.17	23.30	23.21	24.0	0.0
40	QPSK	1	53	23.13	23.20	23.07		
40	QPSK	1	104	23.08	23.24	23.15		
40	QPSK	50	0	22.09	22.25	22.15	24.0	0.0
40	QPSK	50	28	23.24	23.27	23.23		
40	QPSK	50	56	22.17	22.28	22.15		
40	QPSK	100	0	22.18	22.30	22.21	23.0	1.0
40	16QAM	1	1	22.00	22.12	22.03		
40	64QAM	1	1	20.65	20.69	20.61		
40	256QAM	1	1	18.58	18.64	18.59	19.5	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	23.08	23.16	23.06	24.0	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	23.05	23.20	23.12	24.0	0.0



n41 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.23	23.29	23.12		
100	PI/2 BPSK	1	137	23.01	23.18	23.03	23.5	0.5
100	PI/2 BPSK	1	271	23.10	23.13	23.06		
100	PI/2 BPSK	135	0	22.76	22.78	22.69		
100	PI/2 BPSK	135	69	23.07	23.19	23.15	24.0	0.0
100	PI/2 BPSK	135	138	22.49	22.58	22.42		
100	PI/2 BPSK	270	0	22.67	22.73	22.59		
100	QPSK	1	1	23.30	23.32	23.17	24.0	0.0
100	QPSK	1	137	22.90	23.07	23.03		
100	QPSK	1	271	22.96	23.11	22.94		
100	QPSK	135	0	22.10	22.24	22.20	23.0	1.0
100	QPSK	135	69	23.07	23.22	23.12		
100	QPSK	135	138	21.95	22.08	22.05		
100	QPSK	270	0	22.13	22.22	22.19	23.0	1.0
100	16QAM	1	1	22.07	22.17	22.05		
100	64QAM	1	1	20.72	20.75	20.67		
100	256QAM	1	1	18.57	18.72	18.67	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.14	23.17	23.07	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	23.22	23.25	23.11	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	23.20	23.28	23.03	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	23.24	23.29	23.01	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.16	23.17	23.12	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.22	23.26	23.10	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.15	23.21	23.06	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	23.24	23.22	23.06	24.0	0.0



Ant3

n41 Ant 3								
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				509202	518598	528000	23.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.06	22.12	22.04		
100	PI/2 BPSK	1	137	21.87	22.08	22.00	22.5	0.5
100	PI/2 BPSK	1	271	21.91	22.00	21.87		
100	PI/2 BPSK	135	0	21.37	21.53	21.49		
100	PI/2 BPSK	135	69	22.04	22.05	21.96	23.0	0.0
100	PI/2 BPSK	135	138	21.43	21.45	21.42		
100	PI/2 BPSK	270	0	21.53	21.53	21.49		
100	QPSK	1	1	22.12	22.18	22.07	23.0	0.0
100	QPSK	1	137	21.87	22.06	22.07		
100	QPSK	1	271	21.88	22.03	21.96		
100	QPSK	135	0	21.03	21.07	20.94	22.0	1.0
100	QPSK	135	69	22.08	22.12	22.07		
100	QPSK	135	138	20.95	20.96	20.84		
100	QPSK	270	0	20.88	21.04	20.92	22.0	1.0
100	16QAM	1	1	20.99	21.17	21.16		
100	64QAM	1	1	19.65	19.65	19.62		
100	256QAM	1	1	17.30	17.34	17.22	18.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.99	21.99	21.94	23.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.94	22.03	21.98	23.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.10	22.09	21.96	23.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	21.91	22.13	22.03	23.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.12	22.01	22.02	23.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.97	22.00	21.88	23.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.00	22.06	21.88	23.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.11	22.04	22.03	23.0	0.0



Ant4

n41 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				509202	518598	528000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.70	22.79	22.60		
100	PI/2 BPSK	1	137	22.60	22.72	22.60	23.5	0.5
100	PI/2 BPSK	1	271	22.51	22.67	22.52		
100	PI/2 BPSK	135	0	22.04	22.24	22.09		
100	PI/2 BPSK	135	69	22.68	22.66	22.57	24.0	0.0
100	PI/2 BPSK	135	138	22.09	22.11	22.02		
100	PI/2 BPSK	270	0	22.07	22.18	22.13		
100	QPSK	1	1	22.77	22.85	22.81	24.0	0.0
100	QPSK	1	137	22.71	22.77	22.73		
100	QPSK	1	271	22.63	22.73	22.60		
100	QPSK	135	0	21.58	21.71	21.63	23.0	1.0
100	QPSK	135	69	22.60	22.69	22.56		
100	QPSK	135	138	21.61	21.66	21.65		
100	QPSK	270	0	21.51	21.72	21.58	23.0	1.0
100	16QAM	1	1	21.89	21.88	21.77		
100	64QAM	1	1	20.23	20.34	20.35		
100	256QAM	1	1	17.93	18.06	18.06	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.73	22.69	22.62	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.63	22.78	22.80	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.74	22.77	22.77	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.68	22.81	22.69	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.66	22.70	22.70	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.68	22.69	22.72	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.56	22.67	22.62	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.57	22.76	22.61	24.0	0.0



Ant5

Part270 n77 PC3 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.82	22.93	22.86	24.0	0.0
100	PI/2 BPSK	1	137	22.78	22.87	22.85		
100	PI/2 BPSK	1	271	22.96	23.00	22.96		
100	PI/2 BPSK	135	0	22.20	22.36	22.25	23.5	0.5
100	PI/2 BPSK	135	69	22.87	22.92	22.85	24.0	0.0
100	PI/2 BPSK	135	138	22.37	22.41	22.31	23.5	0.5
100	PI/2 BPSK	270	0	22.19	22.33	22.24		
100	QPSK	1	1	22.91	23.01	22.93	24.0	0.0
100	QPSK	1	137	22.93	22.96	22.85		
100	QPSK	1	271	22.86	22.92	22.81		
100	QPSK	135	0	21.67	21.79	21.72	23.0	1.0
100	QPSK	135	69	22.78	22.82	22.79	24.0	0.0
100	QPSK	135	138	21.79	21.84	21.73	23.0	1.0
100	QPSK	270	0	21.73	21.80	21.66		
100	16QAM	1	1	22.08	22.12	22.03	23.0	1.0
100	64QAM	1	1	20.32	20.42	20.26	21.5	2.5
100	256QAM	1	1	18.29	18.40	18.25	19.5	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.86	22.95	22.84	24.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.81	22.86	22.81	24.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.76	22.95	22.90	24.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.77	22.91	22.82	24.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.87	22.95	22.89	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.81	22.89	22.81	24.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.83	22.85	22.86	24.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.89	22.96	22.79	24.0	0.0



Part270 n77 PC2 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	27.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	25.89	25.92	25.92		
100	PI/2 BPSK	1	137	25.70	25.82	25.74	26.5	0.5
100	PI/2 BPSK	1	271	25.73	25.78	25.73		
100	PI/2 BPSK	135	0	25.09	25.22	25.13		
100	PI/2 BPSK	135	69	25.74	25.89	25.74	27.0	0.0
100	PI/2 BPSK	135	138	25.32	25.35	25.22		
100	PI/2 BPSK	270	0	25.16	25.19	25.09		
100	QPSK	1	1	25.86	25.94	25.88	27.0	0.0
100	QPSK	1	137	25.82	25.88	25.73		
100	QPSK	1	271	25.81	25.86	25.74		
100	QPSK	135	0	24.60	24.71	24.60	26.0	1.0
100	QPSK	135	69	25.78	25.87	25.83		
100	QPSK	135	138	24.72	24.74	24.63		
100	QPSK	270	0	24.66	24.76	24.56	27.0	0.0
100	16QAM	1	1	24.97	25.06	24.94		
100	64QAM	1	1	23.19	23.36	23.16		
100	256QAM	1	1	21.24	21.35	21.22	22.5	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	25.73	25.83	25.80	27.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	25.72	25.82	25.73	27.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	25.77	25.84	25.85	27.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	25.74	25.80	25.85	27.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	25.75	25.83	25.77	27.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	25.75	25.86	25.76	27.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	25.76	25.82	25.78	27.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	25.76	25.85	25.80	27.0	0.0



Part27Q n77 PC3 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		24.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.90			
100	PI/2 BPSK	1	137		22.88		23.5	0.5
100	PI/2 BPSK	1	271		22.81			
100	PI/2 BPSK	135	0		22.31		24.0	0.0
100	PI/2 BPSK	135	69		22.86			
100	PI/2 BPSK	135	138		22.33		23.5	0.5
100	PI/2 BPSK	270	0		22.38			
100	QPSK	1	1		23.05		24.0	0.0
100	QPSK	1	137		22.82			
100	QPSK	1	271		22.95			
100	QPSK	135	0		21.82		23.0	1.0
100	QPSK	135	69		22.86			
100	QPSK	135	138		21.74		23.0	1.0
100	QPSK	270	0		21.81			
100	16QAM	1	1		22.11		23.0	1.0
100	64QAM	1	1		20.38		21.5	2.5
100	256QAM	1	1		18.32		19.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.92	22.90	22.91	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.86	22.96	22.82	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.94	22.96	22.84	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.86	22.87	22.85	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.85	22.94	22.78	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.93	22.85	22.84	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.90	22.87	22.89	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.82	22.97	22.92	24.0	0.0



Part27Q n77 PC2 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		27.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		25.87			
100	PI/2 BPSK	1	137		25.92		26.5	0.5
100	PI/2 BPSK	1	271		26.03			
100	PI/2 BPSK	135	0		25.30			
100	PI/2 BPSK	135	69		25.77		27.0	0.0
100	PI/2 BPSK	135	138		25.29			
100	PI/2 BPSK	270	0		25.30			
100	QPSK	1	1		26.05		27.0	0.0
100	QPSK	1	137		25.78			
100	QPSK	1	271		25.92			
100	QPSK	135	0		24.87		26.0	1.0
100	QPSK	135	69		25.85			
100	QPSK	135	138		24.75			
100	QPSK	270	0		24.85		26.0	1.0
100	16QAM	1	1		24.84			
100	64QAM	1	1		23.51			
100	256QAM	1	1		20.99		22.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	25.87	25.89	25.77	27.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	25.83	26.03	25.95	27.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	26.00	25.91	25.79	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	25.87	26.03	25.92	27.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	25.85	25.99	25.88	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	25.82	25.85	25.97	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	25.83	25.92	25.75	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	25.88	26.00	25.92	27.0	0.0



Part270 n78 PC3 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	24.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		22.93			
100	PI/2 BPSK	1	137		22.96		23.5	0.5
100	PI/2 BPSK	1	271		22.84			
100	PI/2 BPSK	135	0		22.38		24.0	0.0
100	PI/2 BPSK	135	69		22.84		23.5	0.5
100	PI/2 BPSK	135	138		22.41			
100	PI/2 BPSK	270	0		21.70		24.0	0.0
100	QPSK	1	1		22.98			
100	QPSK	1	137		22.91			
100	QPSK	1	271		22.87		23.0	1.0
100	QPSK	135	0		21.86			
100	QPSK	135	69		22.85		24.0	0.0
100	QPSK	135	138		21.83		23.0	1.0
100	QPSK	270	0		21.86			
100	16QAM	1	1		22.14		23.0	1.0
100	64QAM	1	1		20.40		21.5	2.5
100	256QAM	1	1		18.24		19.5	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.80	22.90	22.90	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.91	22.82	22.82	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.84	22.89	22.78	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.91	22.82	22.81	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.80	22.90	22.91	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.88	22.84	22.84	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.90	22.84	22.80	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.86	22.92	22.83	24.0	0.0



Part270 n78 PC2 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	27.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		25.81			
100	PI/2 BPSK	1	137		25.57		26.5	0.5
100	PI/2 BPSK	1	271		25.62			
100	PI/2 BPSK	135	0		25.19		27.0	0.0
100	PI/2 BPSK	135	69		25.59			
100	PI/2 BPSK	135	138		25.14		26.5	0.5
100	PI/2 BPSK	270	0		25.22			
100	QPSK	1	1		25.90		27.0	0.0
100	QPSK	1	137		25.80			
100	QPSK	1	271		25.80			
100	QPSK	135	0		24.82		26.0	1.0
100	QPSK	135	69		25.72			
100	QPSK	135	138		24.80		26.0	1.0
100	QPSK	270	0		24.86			
100	16QAM	1	1		24.94		26.0	1.0
100	64QAM	1	1		23.32		24.5	2.5
100	256QAM	1	1		21.15		22.5	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.51	25.73	25.62	27.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.64	25.66	25.68	27.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	25.52	25.74	25.67	27.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	25.62	25.71	25.58	27.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.65	25.61	25.60	27.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.56	25.75	25.58	27.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	25.61	25.65	25.69	27.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	25.56	25.74	25.57	27.0	0.0



Part27Q n78 PC3 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		24.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.99		24.0	0.0
100	PI/2 BPSK	1	137		23.02			
100	PI/2 BPSK	1	271		22.96			
100	PI/2 BPSK	135	0		22.46		23.5	0.5
100	PI/2 BPSK	135	69		23.00		24.0	0.0
100	PI/2 BPSK	135	138		22.42		23.5	0.5
100	PI/2 BPSK	270	0		22.48			
100	QPSK	1	1		23.03		24.0	0.0
100	QPSK	1	137		23.02			
100	QPSK	1	271		22.93			
100	QPSK	135	0		22.04		23.0	1.0
100	QPSK	135	69		22.97		24.0	0.0
100	QPSK	135	138		21.92		23.0	1.0
100	QPSK	270	0		21.96			
100	16QAM	1	1		22.12		23.0	1.0
100	64QAM	1	1		20.44		21.5	2.5
100	256QAM	1	1		18.30		19.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.87	22.89	22.90	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.83	22.88	22.87	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.81	22.90	22.90	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.86	22.94	22.82	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.89	22.89	22.89	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.90	22.96	22.89	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.83	22.95	22.82	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.80	22.89	22.89	24.0	0.0



Part27Q n78 PC2 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		27.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		25.91		26.5	0.5
100	PI/2 BPSK	1	137		25.93			
100	PI/2 BPSK	1	271		25.88		27.0	0.0
100	PI/2 BPSK	135	0		25.27			
100	PI/2 BPSK	135	69		25.86		26.5	0.5
100	PI/2 BPSK	135	138		25.32			
100	PI/2 BPSK	270	0		25.35		27.0	0.0
100	QPSK	1	1		25.99			
100	QPSK	1	137		25.90		26.0	1.0
100	QPSK	1	271		25.92			
100	QPSK	135	0		24.71		27.0	0.0
100	QPSK	135	69		25.92			
100	QPSK	135	138		24.86		26.0	1.0
100	QPSK	270	0		24.94			
100	16QAM	1	1		24.92		26.0	1.0
100	64QAM	1	1		23.58		24.5	2.5
100	256QAM	1	1		21.01		22.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	25.80	25.91	25.75	27.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	25.74	25.94	25.92	27.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	25.79	25.88	25.72	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	25.91	25.86	25.73	27.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	25.92	25.80	25.82	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	25.77	25.88	25.77	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	25.92	25.95	25.74	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	25.88	25.78	25.84	27.0	0.0



Ant6

Part270 n77 Ant 6								
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	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	23.49	23.57	23.53	24.0	0.0
100	PI/2 BPSK	1	137	23.43	23.51	23.47		
100	PI/2 BPSK	1	271	23.35	23.48	23.33		
100	PI/2 BPSK	135	0	23.32	23.40	23.30	24.0	0.0
100	PI/2 BPSK	135	69	23.46	23.52	23.40	24.0	0.0
100	PI/2 BPSK	135	138	23.30	23.43	23.34	24.0	0.0
100	PI/2 BPSK	270	0	23.38	23.48	23.43		
100	QPSK	1	1	23.56	23.63	23.58		
100	QPSK	1	137	23.48	23.58	23.51	24.0	0.0
100	QPSK	1	271	23.37	23.52	23.46		
100	QPSK	135	0	23.18	23.28	23.16		
100	QPSK	135	69	23.44	23.56	23.46	24.0	0.0
100	QPSK	135	138	23.08	23.21	23.09	24.0	0.0
100	QPSK	270	0	23.21	23.26	23.16		
100	16QAM	1	1	23.07	23.12	23.08		
100	64QAM	1	1	21.78	21.84	21.79	22.5	1.5
100	256QAM	1	1	19.73	19.78	19.65	20.5	3.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	23.46	23.54	23.44	24.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	23.46	23.50	23.44	24.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	23.47	23.51	23.45	24.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	23.44	23.56	23.43	24.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	23.42	23.55	23.46	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	23.47	23.53	23.43	24.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	23.50	23.58	23.52	24.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	23.46	23.56	23.50	24.0	0.0



Part27Q n77 Ant 6								
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					633334		24.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		23.21		24.0	0.0
100	PI/2 BPSK	1	137		23.25			
100	PI/2 BPSK	1	271		23.12			
100	PI/2 BPSK	135	0		22.93		24.0	0.0
100	PI/2 BPSK	135	69		23.21		24.0	0.0
100	PI/2 BPSK	135	138		23.12		24.0	0.0
100	PI/2 BPSK	270	0		23.18			
100	QPSK	1	1		23.29		24.0	0.0
100	QPSK	1	137		23.24			
100	QPSK	1	271		23.21			
100	QPSK	135	0		23.09		24.0	0.0
100	QPSK	135	69		23.24		24.0	0.0
100	QPSK	135	138		23.12		24.0	0.0
100	QPSK	270	0		23.18			
100	16QAM	1	1		23.10		24.0	0.0
100	64QAM	1	1		21.65		22.5	1.5
100	256QAM	1	1		19.61		20.5	3.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	23.14	23.21	23.08	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	23.14	23.26	23.12	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	23.16	23.24	23.15	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	23.22	23.15	23.17	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	23.12	23.16	23.16	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.18	23.21	23.12	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	23.14	23.22	23.08	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	23.19	23.14	23.10	24.0	0.0



Part270 n78 Ant 6								
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	650000	650000	24.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		23.46			
100	PI/2 BPSK	1	137		23.53		24.0	0.0
100	PI/2 BPSK	1	271		23.02			
100	PI/2 BPSK	135	0		23.20		24.0	0.0
100	PI/2 BPSK	135	69		23.52		24.0	0.0
100	PI/2 BPSK	135	138		23.09		24.0	0.0
100	PI/2 BPSK	270	0		23.20			
100	QPSK	1	1		23.54		24.0	0.0
100	QPSK	1	137		23.31			
100	QPSK	1	271		22.82			
100	QPSK	135	0		22.68		24.0	0.0
100	QPSK	135	69		23.27		24.0	0.0
100	QPSK	135	138		22.73		24.0	0.0
100	QPSK	270	0		22.64			
100	16QAM	1	1		22.66		24.0	0.0
100	64QAM	1	1		21.24		22.5	1.5
100	256QAM	1	1		19.73		20.5	3.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	23.07	23.19	23.09	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	23.07	23.14	23.08	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	23.13	23.18	23.10	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	23.13	23.10	23.12	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	23.18	23.15	23.01	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	23.10	23.09	23.11	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	23.10	23.11	23.01	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	23.10	23.14	23.10	24.0	0.0



Part27Q n78 Ant 6								
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					633334		24.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		23.11		24.0	0.0
100	PI/2 BPSK	1	137		23.00			
100	PI/2 BPSK	1	271		23.04			
100	PI/2 BPSK	135	0		23.12		24.0	0.0
100	PI/2 BPSK	135	69		23.10		24.0	0.0
100	PI/2 BPSK	135	138		22.96		24.0	0.0
100	PI/2 BPSK	270	0		23.05			
100	QPSK	1	1		23.25		24.0	0.0
100	QPSK	1	137		23.17			
100	QPSK	1	271		23.11			
100	QPSK	135	0		23.13		24.0	0.0
100	QPSK	135	69		23.21		24.0	0.0
100	QPSK	135	138		23.00		24.0	0.0
100	QPSK	270	0		23.05			
100	16QAM	1	1		22.08		24.0	0.0
100	64QAM	1	1		21.42		22.5	1.5
100	256QAM	1	1		20.02		20.5	3.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	23.02	23.08	23.18	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	23.10	23.13	23.13	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.99	23.08	23.15	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	23.01	23.12	23.09	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	23.02	23.08	23.06	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.05	23.09	23.07	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	23.11	23.18	23.15	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.99	23.10	23.16	24.0	0.0



Reduced Power Mode for DSI 0

Ant 0

n5 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.23	23.30	23.16		
20	PI/2 BPSK	1	53	23.23	23.32	23.17	23.5	0.5
20	PI/2 BPSK	1	104	23.16	23.21	23.19		
20	PI/2 BPSK	50	0	22.79	22.85	22.80		
20	PI/2 BPSK	50	28	23.25	23.31	23.27	23.5	0.5
20	PI/2 BPSK	50	56	22.61	22.73	22.66		
20	PI/2 BPSK	100	0	22.77	22.83	22.74		
20	QPSK	1	1	23.33	23.37	23.27	24.0	0.0
20	QPSK	1	53	23.29	23.31	23.27		
20	QPSK	1	104	23.07	23.17	23.04		
20	QPSK	50	0	22.29	22.32	22.27	23.0	1.0
20	QPSK	50	28	23.31	23.34	23.31		
20	QPSK	50	56	22.21	22.28	22.14		
20	QPSK	100	0	22.20	22.36	22.26	23.0	1.0
20	16QAM	1	1	22.25	22.39	22.30		
20	64QAM	1	1	20.79	20.91	20.81		
20	256QAM	1	1	18.62	18.74	18.63	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.25	23.32	23.15	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.29	23.31	23.23	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.30	23.28	23.16	24.0	0.0



n71 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134600	136100	137600	24.0	0.0
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.03	23.12	22.96		
20	PI/2 BPSK	1	53	23.16	23.19	23.02	23.5	0.5
20	PI/2 BPSK	1	104	22.93	23.08	22.94		
20	PI/2 BPSK	50	0	22.65	22.67	22.50		
20	PI/2 BPSK	50	28	23.11	23.18	23.10	23.5	0.5
20	PI/2 BPSK	50	56	22.52	22.65	22.58		
20	PI/2 BPSK	100	0	22.54	22.63	22.58		
20	QPSK	1	1	23.23	23.30	23.17	24.0	0.0
20	QPSK	1	53	23.04	23.14	23.09		
20	QPSK	1	104	22.90	23.01	22.92		
20	QPSK	50	0	22.17	22.22	22.09	23.0	1.0
20	QPSK	50	28	23.16	23.22	23.16		
20	QPSK	50	56	22.02	22.11	21.97		
20	QPSK	100	0	22.12	22.27	22.18	23.0	1.0
20	16QAM	1	1	21.87	22.03	21.96		
20	64QAM	1	1	20.31	20.46	20.33		
20	256QAM	1	1	18.26	18.28	18.11	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.10	23.26	23.12	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.11	23.27	23.12	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.17	23.16	23.14	24.0	0.0



n41 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.60	20.83	20.66	21.8	0.0
100	PI/2 BPSK	1	137	20.65	20.87	20.69		
100	PI/2 BPSK	1	271	20.67	20.80	20.63		
100	PI/2 BPSK	135	0	20.57	20.78	20.71	21.8	0.0
100	PI/2 BPSK	135	69	20.63	20.85	20.67	21.8	0.0
100	PI/2 BPSK	135	138	20.70	20.79	20.72	21.8	0.0
100	PI/2 BPSK	270	0	20.56	20.86	20.66		
100	QPSK	1	1	20.76	20.93	20.80	21.8	0.0
100	QPSK	1	137	20.58	20.85	20.74		
100	QPSK	1	271	20.66	20.78	20.73		
100	QPSK	135	0	20.60	20.73	20.60	21.8	0.0
100	QPSK	135	69	20.62	20.84	20.70	21.8	0.0
100	QPSK	135	138	20.67	20.77	20.67	21.8	0.0
100	QPSK	270	0	20.58	20.79	20.70		
100	16QAM	1	1	20.64	20.74	20.70	21.8	0.0
100	64QAM	1	1	19.15	19.29	19.07	20.5	1.3
100	256QAM	1	1	16.78	16.94	16.73	18.5	3.3
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.63	20.78	20.73	21.8	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.57	20.87	20.69	21.8	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.63	20.79	20.69	21.8	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.67	20.75	20.69	21.8	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	20.66	20.79	20.64	21.8	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.57	20.78	20.61	21.8	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.63	20.79	20.65	21.8	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.58	20.80	20.69	21.8	0.0



Part270 n77 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	22.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.09	21.25	21.12	22.0	0.0
100	PI/2 BPSK	1	137	20.96	21.09	21.06		
100	PI/2 BPSK	1	271	21.00	21.12	21.03		
100	PI/2 BPSK	135	0	20.92	20.98	20.94	22.0	0.0
100	PI/2 BPSK	135	69	21.04	21.12	20.98	22.0	0.0
100	PI/2 BPSK	135	138	20.87	20.85	20.85	22.0	0.0
100	PI/2 BPSK	270	0	20.77	20.90	20.76		
100	QPSK	1	1	21.31	21.36	21.19	22.0	0.0
100	QPSK	1	137	21.10	21.20	21.09		
100	QPSK	1	271	21.20	21.22	21.18		
100	QPSK	135	0	20.95	20.97	20.95	22.0	0.0
100	QPSK	135	69	21.23	21.26	21.24	22.0	0.0
100	QPSK	135	138	20.75	20.92	20.78	22.0	0.0
100	QPSK	270	0	20.87	20.96	20.75		
100	16QAM	1	1	20.81	20.91	20.82	22.0	0.0
100	64QAM	1	1	20.51	20.63	20.48	21.5	0.5
100	256QAM	1	1	18.39	18.52	18.41	19.5	2.5
Channel				649668	656000	662334	22.0	0.0
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.23	21.33	21.06	22.0	0.0
Channel				649334	656000	662668	22.0	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.16	21.25	21.11	22.0	0.0
Channel				649000	656000	663000	22.0	0.0
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.16	21.32	21.10	22.0	0.0
Channel				648668	656000	663334	22.0	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.16	21.28	21.09	22.0	0.0
Channel				648334	656000	663668	22.0	0.0
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.18	21.29	21.12	22.0	0.0
Channel				648000	656000	664000	22.0	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.15	21.20	21.08	22.0	0.0
Channel				647668	656000	664334	22.0	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	21.21	21.33	21.08	22.0	0.0
Channel				647334	656000	664668	22.0	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.29	21.26	21.10	22.0	0.0



Part27Q n77 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		22.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		20.71		22.0	0.0
100	PI/2 BPSK	1	137		20.65			
100	PI/2 BPSK	1	271		20.58			
100	PI/2 BPSK	135	0		20.50		22.0	0.0
100	PI/2 BPSK	135	69		20.65		22.0	0.0
100	PI/2 BPSK	135	138		20.58		22.0	0.0
100	PI/2 BPSK	270	0		20.62			
100	QPSK	1	1		20.76		22.0	0.0
100	QPSK	1	137		20.63			
100	QPSK	1	271		20.68			
100	QPSK	135	0		20.63		22.0	0.0
100	QPSK	135	69		20.72		22.0	0.0
100	QPSK	135	138		20.64		22.0	0.0
100	QPSK	270	0		20.68			
100	16QAM	1	1		20.54		22.0	0.0
100	64QAM	1	1		20.36		21.5	0.5
100	256QAM	1	1		18.27		19.5	2.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	20.65	20.66	20.58	22.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.59	20.68	20.46	22.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	20.52	20.71	20.66	22.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	20.74	20.68	20.47	22.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	20.69	20.62	20.58	22.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	20.66	20.59	20.53	22.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	20.60	20.75	20.61	22.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	20.66	20.60	20.53	22.0	0.0



Part270 n78 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	22.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		21.16		22.0	0.0
100	PI/2 BPSK	1	137		21.08			
100	PI/2 BPSK	1	271		21.03			
100	PI/2 BPSK	135	0		21.01		22.0	0.0
100	PI/2 BPSK	135	69		21.01		22.0	0.0
100	PI/2 BPSK	135	138		20.89		22.0	0.0
100	PI/2 BPSK	270	0		20.93			
100	QPSK	1	1		21.22		22.0	0.0
100	QPSK	1	137		21.17			
100	QPSK	1	271		21.11			
100	QPSK	135	0		21.03		22.0	0.0
100	QPSK	135	69		21.17		22.0	0.0
100	QPSK	135	138		21.05		22.0	0.0
100	QPSK	270	0		21.13			
100	16QAM	1	1		21.02		22.0	0.0
100	64QAM	1	1		20.55		21.5	0.5
100	256QAM	1	1		18.35		19.5	2.5
Channel				649668	650000	650334	22.0	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.04	21.16	21.11	22.0	0.0
Channel				649334	650000	650668	22.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.08	21.11	21.02	22.0	0.0
Channel				649000	650000	651000	22.0	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.14	21.17	21.00	22.0	0.0
Channel				648668	650000	651334	22.0	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.16	21.20	20.52	22.0	0.0
Channel				648334	650000	651668	22.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.04	21.09	20.99	22.0	0.0
Channel				648000	650000	652000	22.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.99	20.19	21.05	22.0	0.0
Channel				647668	650000	652334	22.0	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	20.11	21.20	21.05	22.0	0.0
Channel				647334	650000	652668	22.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.00	21.13	21.04	22.0	0.0



Part27Q n78 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		22.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		20.64		22.0	0.0
100	PI/2 BPSK	1	137		20.58			
100	PI/2 BPSK	1	271		20.51			
100	PI/2 BPSK	135	0		20.46		22.0	0.0
100	PI/2 BPSK	135	69		20.68		22.0	0.0
100	PI/2 BPSK	135	138		20.42		22.0	0.0
100	PI/2 BPSK	270	0		20.49			
100	QPSK	1	1		20.70		22.0	0.0
100	QPSK	1	137		20.65			
100	QPSK	1	271		20.68			
100	QPSK	135	0		20.62		22.0	0.0
100	QPSK	135	69		20.64		22.0	0.0
100	QPSK	135	138		20.45		22.0	0.0
100	QPSK	270	0		20.53			
100	16QAM	1	1		20.35		22.0	0.0
100	64QAM	1	1		20.29		21.5	0.5
100	256QAM	1	1		18.17		19.5	2.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	20.57	20.62	20.51	22.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.56	20.66	20.58	22.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	20.56	20.62	20.62	22.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	20.68	20.59	20.68	22.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	20.67	20.66	20.67	22.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	20.61	20.68	20.62	22.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	20.61	20.65	20.56	22.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	20.68	20.67	20.61	22.0	0.0



Ant 1

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	1880	1900		
20	PI/2 BPSK	1	1	22.93	22.98	22.92	24.0	0.0
20	PI/2 BPSK	1	53	22.91	22.94	22.90		
20	PI/2 BPSK	1	104	22.81	22.89	22.83		
20	PI/2 BPSK	50	0	22.41	22.43	22.27	23.5	0.5
20	PI/2 BPSK	50	28	22.88	22.96	22.88	24.0	0.0
20	PI/2 BPSK	50	56	22.38	22.44	22.42	23.5	0.5
20	PI/2 BPSK	100	0	22.35	22.43	22.35		
20	QPSK	1	1	22.83	23.00	22.92	24.0	0.0
20	QPSK	1	53	22.85	22.96	22.87		
20	QPSK	1	104	22.76	22.85	22.80		
20	QPSK	50	0	21.89	22.00	21.97	23.0	1.0
20	QPSK	50	28	22.76	22.93	22.79	24.0	0.0
20	QPSK	50	56	21.79	21.96	21.83	23.0	1.0
20	QPSK	100	0	21.91	21.98	21.81		
20	16QAM	1	1	21.90	22.00	21.97	23.0	1.0
20	64QAM	1	1	20.42	20.56	20.46	21.5	2.5
20	256QAM	1	1	18.34	18.41	18.32	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.72	22.88	22.85	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	22.69	22.89	22.79	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	22.80	22.92	22.87	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				346000	349000	352000	24.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	23.08	23.21	23.13		
40	PI/2 BPSK	1	108	23.02	23.15	23.05	23.5	0.5
40	PI/2 BPSK	1	214	23.01	23.08	23.03		
40	PI/2 BPSK	108	0	22.54	22.61	22.54		
40	PI/2 BPSK	108	54	23.05	23.18	23.04	23.5	0.5
40	PI/2 BPSK	108	108	22.63	22.66	22.54		
40	PI/2 BPSK	216	0	22.49	22.64	22.60		
40	QPSK	1	1	23.09	23.27	23.18	24.0	0.0
40	QPSK	1	108	23.14	23.20	23.03		
40	QPSK	1	214	23.02	23.04	22.92		
40	QPSK	108	0	22.09	22.12	22.07	23.0	1.0
40	QPSK	108	54	23.18	23.23	23.06	24.0	0.0
40	QPSK	108	108	22.00	22.15	22.08	23.0	1.0
40	QPSK	216	0	22.14	22.18	22.12		
40	16QAM	1	1	21.83	21.85	21.69	23.0	1.0
40	64QAM	1	1	20.19	20.31	20.15	21.5	2.5
40	256QAM	1	1	18.14	18.21	18.10	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.00	23.12	23.03	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.01	23.25	23.13	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.96	23.21	23.13	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.92	23.24	23.02	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.97	23.22	23.05	24.0	0.0



Part270 n77 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				650000	656000	662000	23.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.98	22.08	21.99		
100	PI/2 BPSK	1	137	21.97	22.06	21.94	22.5	0.5
100	PI/2 BPSK	1	271	21.87	21.91	21.80		
100	PI/2 BPSK	135	0	21.55	21.57	21.50		
100	PI/2 BPSK	135	69	21.96	22.05	22.00	22.5	0.5
100	PI/2 BPSK	135	138	21.51	21.49	21.39		
100	PI/2 BPSK	270	0	21.41	21.59	21.45		
100	QPSK	1	1	21.98	22.13	22.00	23.0	0.0
100	QPSK	1	137	21.98	22.06	21.89		
100	QPSK	1	271	21.89	21.95	21.93		
100	QPSK	135	0	20.85	21.02	20.85	22.0	1.0
100	QPSK	135	69	21.99	22.07	21.99		
100	QPSK	135	138	20.82	21.02	20.93		
100	QPSK	270	0	20.94	21.09	20.86	22.0	1.0
100	16QAM	1	1	20.93	21.01	20.92		
100	64QAM	1	1	19.41	19.39	19.38		
100	256QAM	1	1	17.12	17.15	17.10	18.5	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.88	22.03	21.92	23.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.95	22.01	21.92	23.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.88	22.05	21.88	23.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.84	22.04	21.91	23.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.86	22.09	21.94	23.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.83	22.08	21.91	23.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	21.88	21.98	21.94	23.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.85	22.10	21.91	23.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		23.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.14		23.0	0.0
100	PI/2 BPSK	1	137		22.05			
100	PI/2 BPSK	1	271		21.94			
100	PI/2 BPSK	135	0		21.57		22.5	0.5
100	PI/2 BPSK	135	69		21.93		23.0	0.0
100	PI/2 BPSK	135	138		21.56		22.5	0.5
100	PI/2 BPSK	270	0		21.64			
100	QPSK	1	1		22.18		23.0	0.0
100	QPSK	1	137		22.04			
100	QPSK	1	271		21.95			
100	QPSK	135	0		21.07		22.0	1.0
100	QPSK	135	69		22.04		23.0	0.0
100	QPSK	135	138		21.05		22.0	1.0
100	QPSK	270	0		21.14			
100	16QAM	1	1		21.01		22.0	1.0
100	64QAM	1	1		19.65		20.5	2.5
100	256QAM	1	1		17.16		18.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.09	22.05	21.84	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.03	22.12	21.95	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.08	22.11	21.91	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.06	22.13	21.86	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.98	22.10	21.92	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.04	22.09	21.86	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.05	22.03	21.84	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.99	22.11	21.86	23.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	23.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		22.01		23.0	0.0
100	PI/2 BPSK	1	137		22.02			
100	PI/2 BPSK	1	271		21.99			
100	PI/2 BPSK	135	0		21.42		22.5	0.5
100	PI/2 BPSK	135	69		22.00		23.0	0.0
100	PI/2 BPSK	135	138		21.49		22.5	0.5
100	PI/2 BPSK	270	0		21.49			
100	QPSK	1	1		22.09		23.0	0.0
100	QPSK	1	137		22.00			
100	QPSK	1	271		21.87			
100	QPSK	135	0		20.90		22.0	1.0
100	QPSK	135	69		21.91		23.0	0.0
100	QPSK	135	138		20.90		22.0	1.0
100	QPSK	270	0		20.89			
100	16QAM	1	1		21.02		22.0	1.0
100	64QAM	1	1		19.57		20.5	2.5
100	256QAM	1	1		17.10		18.5	4.5
Channel				649668	650000	650334	23.0	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.95	21.98	21.90		
Channel				649334	650000	650668	23.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.89	22.05	21.97		
Channel				649000	650000	651000	23.0	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.90	22.00	21.92		
Channel				648668	650000	651334	23.0	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.90	21.97	21.88		
Channel				648334	650000	651668	23.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.96	21.98	21.93		
Channel				648000	650000	652000	23.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.92	21.96	21.89		
Channel				647668	650000	652334	23.0	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.97	21.95	21.93		
Channel				647334	650000	652668	23.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.98	21.97	21.92		



Part27Q n78 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					633334		23.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		21.91		23.0	0.0
100	PI/2 BPSK	1	137		21.87			
100	PI/2 BPSK	1	271		21.92			
100	PI/2 BPSK	135	0		21.40		22.5	0.5
100	PI/2 BPSK	135	69		21.93		23.0	0.0
100	PI/2 BPSK	135	138		21.44		22.5	0.5
100	PI/2 BPSK	270	0		21.43			
100	QPSK	1	1		22.02		23.0	0.0
100	QPSK	1	137		21.85			
100	QPSK	1	271		21.86			
100	QPSK	135	0		20.87		22.0	1.0
100	QPSK	135	69		21.99		23.0	0.0
100	QPSK	135	138		20.84		22.0	1.0
100	QPSK	270	0		20.98			
100	16QAM	1	1		20.89		22.0	1.0
100	64QAM	1	1		19.44		20.5	2.5
100	256QAM	1	1		17.03		18.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.85	21.97	21.91	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.85	21.89	21.90	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.87	21.93	21.86	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.85	21.98	21.88	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.89	21.93	21.87	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.88	21.92	21.80	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.92	21.97	21.85	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.88	21.95	21.82	23.0	0.0



Ant 2

n7 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				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	23.35	23.44	23.32	24.0	0.0
40	PI/2 BPSK	1	108	23.34	23.41	23.34		
40	PI/2 BPSK	1	214	23.30	23.34	23.29		
40	PI/2 BPSK	108	0	22.97	22.99	22.88	23.5	0.5
40	PI/2 BPSK	108	54	23.27	23.41	23.29	24.0	0.0
40	PI/2 BPSK	108	108	23.01	23.05	22.89	23.5	0.5
40	PI/2 BPSK	216	0	22.95	22.99	22.96		
40	QPSK	1	1	23.41	23.46	23.36	24.0	0.0
40	QPSK	1	108	23.26	23.43	23.27		
40	QPSK	1	214	23.23	23.38	23.36		
40	QPSK	108	0	22.51	22.53	22.41	23.0	1.0
40	QPSK	108	54	23.29	23.39	23.22	24.0	0.0
40	QPSK	108	108	22.47	22.61	22.46	23.0	1.0
40	QPSK	216	0	22.41	22.47	22.33		
40	16QAM	1	1	22.18	22.26	22.14	23.0	1.0
40	64QAM	1	1	20.61	20.74	20.57	21.5	2.5
40	256QAM	1	1	18.74	18.80	18.68	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.32	23.35	23.34	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.29	23.44	23.31	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.30	23.43	23.26	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.25	23.43	23.32	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.36	23.36	23.23	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.31	23.41	23.29	24.0	0.0



n38 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				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	23.15	23.28	23.15	24.0	0.0
40	PI/2 BPSK	1	53	23.17	23.23	23.10		
40	PI/2 BPSK	1	104	23.08	23.18	23.04		
40	PI/2 BPSK	50	0	22.68	22.75	22.70	23.5	0.5
40	PI/2 BPSK	50	28	23.05	23.19	23.11	24.0	0.0
40	PI/2 BPSK	50	56	22.68	22.74	22.58	23.5	0.5
40	PI/2 BPSK	100	0	22.66	22.81	22.64		
40	QPSK	1	1	23.17	23.30	23.21	24.0	0.0
40	QPSK	1	53	23.13	23.20	23.07		
40	QPSK	1	104	23.08	23.24	23.15		
40	QPSK	50	0	22.09	22.25	22.15	23.0	1.0
40	QPSK	50	28	23.24	23.27	23.23	24.0	0.0
40	QPSK	50	56	22.17	22.28	22.15	23.0	1.0
40	QPSK	100	0	22.18	22.30	22.21		
40	16QAM	1	1	22.00	22.12	22.03	23.0	1.0
40	64QAM	1	1	20.65	20.69	20.61	21.5	2.5
40	256QAM	1	1	18.58	18.64	18.59	19.5	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	23.08	23.16	23.06	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	23.05	23.20	23.12	24.0	0.0



n41 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.23	23.29	23.12		
100	PI/2 BPSK	1	137	23.01	23.18	23.03	23.5	0.5
100	PI/2 BPSK	1	271	23.10	23.13	23.06		
100	PI/2 BPSK	135	0	22.76	22.78	22.69		
100	PI/2 BPSK	135	69	23.07	23.19	23.15	23.5	0.5
100	PI/2 BPSK	135	138	22.49	22.58	22.42		
100	PI/2 BPSK	270	0	22.67	22.73	22.59		
100	QPSK	1	1	23.30	23.32	23.17	24.0	0.0
100	QPSK	1	137	22.90	23.07	23.03		
100	QPSK	1	271	22.96	23.11	22.94		
100	QPSK	135	0	22.10	22.24	22.20	23.0	1.0
100	QPSK	135	69	23.07	23.22	23.12		
100	QPSK	135	138	21.95	22.08	22.05		
100	QPSK	270	0	22.13	22.22	22.19	23.0	1.0
100	16QAM	1	1	22.07	22.17	22.05		
100	64QAM	1	1	20.72	20.75	20.67		
100	256QAM	1	1	18.57	18.72	18.67	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.14	23.17	23.07	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	23.22	23.25	23.11	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	23.20	23.28	23.03	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	23.24	23.29	23.01	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.16	23.17	23.12	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.22	23.26	23.10	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.15	23.21	23.06	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	23.24	23.22	23.06	24.0	0.0



Ant 3

n41 Ant 3								
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				509202	518598	528000	23.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.06	22.12	22.04		
100	PI/2 BPSK	1	137	21.87	22.08	22.00	22.5	0.5
100	PI/2 BPSK	1	271	21.91	22.00	21.87		
100	PI/2 BPSK	135	0	21.37	21.53	21.49		
100	PI/2 BPSK	135	69	22.04	22.05	21.96	22.5	0.5
100	PI/2 BPSK	135	138	21.43	21.45	21.42		
100	PI/2 BPSK	270	0	21.53	21.53	21.49		
100	QPSK	1	1	22.12	22.18	22.07	23.0	0.0
100	QPSK	1	137	21.87	22.06	22.07		
100	QPSK	1	271	21.88	22.03	21.96		
100	QPSK	135	0	21.03	21.07	20.94	22.0	1.0
100	QPSK	135	69	22.08	22.12	22.07		
100	QPSK	135	138	20.95	20.96	20.84		
100	QPSK	270	0	20.88	21.04	20.92	22.0	1.0
100	16QAM	1	1	20.99	21.17	21.16		
100	64QAM	1	1	19.65	19.65	19.62		
100	256QAM	1	1	17.30	17.34	17.22	18.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.99	21.99	21.94	23.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.94	22.03	21.98	23.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.10	22.09	21.96	23.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	21.91	22.13	22.03	23.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.12	22.01	22.02	23.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.97	22.00	21.88	23.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.00	22.06	21.88	23.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.11	22.04	22.03	23.0	0.0



Ant 4

n41 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				509202	518598	528000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.70	22.79	22.60		
100	PI/2 BPSK	1	137	22.60	22.72	22.60	23.5	0.5
100	PI/2 BPSK	1	271	22.51	22.67	22.52		
100	PI/2 BPSK	135	0	22.04	22.24	22.09		
100	PI/2 BPSK	135	69	22.68	22.66	22.57	23.5	0.5
100	PI/2 BPSK	135	138	22.09	22.11	22.02		
100	PI/2 BPSK	270	0	22.07	22.18	22.13		
100	QPSK	1	1	22.77	22.85	22.81	24.0	0.0
100	QPSK	1	137	22.71	22.77	22.73		
100	QPSK	1	271	22.63	22.73	22.60		
100	QPSK	135	0	21.58	21.71	21.63	23.0	1.0
100	QPSK	135	69	22.60	22.69	22.56		
100	QPSK	135	138	21.61	21.66	21.65		
100	QPSK	270	0	21.51	21.72	21.58	23.0	1.0
100	16QAM	1	1	21.89	21.88	21.77		
100	64QAM	1	1	20.23	20.34	20.35		
100	256QAM	1	1	17.93	18.06	18.06	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.73	22.69	22.62	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.63	22.78	22.80	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.74	22.77	22.77	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.68	22.81	22.69	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.66	22.70	22.70	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.68	22.69	22.72	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.56	22.67	22.62	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.57	22.76	22.61	24.0	0.0



Ant 5

Part270 n77 PC2&PC3 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	19.1	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	17.69	17.78	17.64		
100	PI/2 BPSK	1	137	17.67	17.71	17.68	19.1	0.0
100	PI/2 BPSK	1	271	17.77	17.83	17.77		
100	PI/2 BPSK	135	0	17.73	17.85	17.68		
100	PI/2 BPSK	135	69	17.74	17.79	17.73	19.1	0.0
100	PI/2 BPSK	135	138	17.74	17.76	17.65		
100	PI/2 BPSK	270	0	17.78	17.86	17.67		
100	QPSK	1	1	17.87	17.92	17.83	19.1	0.0
100	QPSK	1	137	17.69	17.75	17.64		
100	QPSK	1	271	17.79	17.74	17.73		
100	QPSK	135	0	17.73	17.73	17.68	19.1	0.0
100	QPSK	135	69	17.73	17.83	17.74		
100	QPSK	135	138	17.78	17.80	17.63		
100	QPSK	270	0	17.71	17.81	17.76	19.1	0.0
100	16QAM	1	1	17.80	17.78	17.75		
100	64QAM	1	1	17.73	17.77	17.77		
100	256QAM	1	1	17.68	17.80	17.73	19.1	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.71	17.80	17.75	19.1	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.67	17.77	17.74	19.1	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	17.81	17.81	17.76	19.1	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.69	17.71	17.69	19.1	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	17.69	17.83	17.62	19.1	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.79	17.76	17.69	19.1	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.82	17.78	17.68	19.1	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.81	17.78	17.72	19.1	0.0



Part27Q n77 PC2&PC3 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		19.1	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.87		19.1	0.0
100	PI/2 BPSK	1	137		17.87			
100	PI/2 BPSK	1	271		17.96			
100	PI/2 BPSK	135	0		17.97		19.1	0.0
100	PI/2 BPSK	135	69		17.94		19.1	0.0
100	PI/2 BPSK	135	138		17.85		19.1	0.0
100	PI/2 BPSK	270	0		18.06			
100	QPSK	1	1		18.07		19.1	0.0
100	QPSK	1	137		17.89			
100	QPSK	1	271		17.82			
100	QPSK	135	0		17.85		19.1	0.0
100	QPSK	135	69		18.00		19.1	0.0
100	QPSK	135	138		17.90		19.1	0.0
100	QPSK	270	0		17.94			
100	16QAM	1	1		17.85		19.1	0.0
100	64QAM	1	1		17.83		19.1	0.0
100	256QAM	1	1		17.90		19.1	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.74	17.76	17.71	19.1	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.73	17.85	17.64	19.1	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	17.74	17.87	17.65	19.1	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.73	17.85	17.77	19.1	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.81	17.84	17.63	19.1	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.77	17.75	17.64	19.1	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.68	17.83	17.77	19.1	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.77	17.74	17.73	19.1	0.0



Part270 n78 PC2&PC3 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		17.62		19.1	0.0
100	PI/2 BPSK	1	137		17.60			
100	PI/2 BPSK	1	271		17.63			
100	PI/2 BPSK	135	0		17.65		19.1	0.0
100	PI/2 BPSK	135	69		17.72		19.1	0.0
100	PI/2 BPSK	135	138		17.66		19.1	0.0
100	PI/2 BPSK	270	0		17.77		19.1	0.0
100	QPSK	1	1		17.82			
100	QPSK	1	137		17.60			
100	QPSK	1	271		17.56		19.1	0.0
100	QPSK	135	0		17.66			
100	QPSK	135	69		17.71			
100	QPSK	135	138		17.64		19.1	0.0
100	QPSK	270	0		17.73		19.1	0.0
100	16QAM	1	1		17.63			
100	64QAM	1	1		17.59			
100	256QAM	1	1		17.66		19.1	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.39	17.53	17.26	19.1	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.42	17.53	17.25	19.1	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	17.29	17.47	17.23	19.1	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	17.43	17.51	17.22	19.1	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.36	17.39	17.33	19.1	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.37	17.47	17.26	19.1	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.40	17.46	17.28	19.1	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.31	17.53	17.33	19.1	0.0



Part27Q n78 PC2&PC3 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		19.1	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.67		19.1	0.0
100	PI/2 BPSK	1	137		17.81			
100	PI/2 BPSK	1	271		17.76			
100	PI/2 BPSK	135	0		17.89		19.1	0.0
100	PI/2 BPSK	135	69		17.87		19.1	0.0
100	PI/2 BPSK	135	138		17.77		19.1	0.0
100	PI/2 BPSK	270	0		17.79			
100	QPSK	1	1		17.90		19.1	0.0
100	QPSK	1	137		17.80			
100	QPSK	1	271		17.61			
100	QPSK	135	0		17.65		19.1	0.0
100	QPSK	135	69		17.87		19.1	0.0
100	QPSK	135	138		17.75		19.1	0.0
100	QPSK	270	0		17.81			
100	16QAM	1	1		17.76		19.1	0.0
100	64QAM	1	1		17.65		19.1	0.0
100	256QAM	1	1		17.74		19.1	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.42	17.45	17.23	19.1	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.29	17.54	17.21	19.1	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	17.40	17.52	17.35	19.1	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.43	17.47	17.21	19.1	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.44	17.53	17.35	19.1	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.37	17.48	17.32	19.1	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.29	17.54	17.35	19.1	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.36	17.54	17.28	19.1	0.0



Ant 6

Part270 n77 Ant 6								
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	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.12	21.14	20.96	22.5	0.0
100	PI/2 BPSK	1	137	21.08	21.20	21.01		
100	PI/2 BPSK	1	271	20.98	21.09	20.99		
100	PI/2 BPSK	135	0	21.08	21.18	20.97	22.5	0.0
100	PI/2 BPSK	135	69	21.13	21.16	21.09	22.5	0.0
100	PI/2 BPSK	135	138	21.07	21.19	21.10	22.5	0.0
100	PI/2 BPSK	270	0	21.04	21.12	21.02		
100	QPSK	1	1	21.15	21.22	21.13	22.5	0.0
100	QPSK	1	137	20.99	21.01	21.03		
100	QPSK	1	271	20.86	21.07	20.92		
100	QPSK	135	0	20.69	20.78	20.63	22.5	0.0
100	QPSK	135	69	20.89	21.15	20.97	22.5	0.0
100	QPSK	135	138	21.02	21.09	21.10	22.5	0.0
100	QPSK	270	0	21.07	21.11	21.03		
100	16QAM	1	1	20.97	21.08	21.02	22.5	0.0
100	64QAM	1	1	21.04	21.10	20.97	22.5	0.0
100	256QAM	1	1	19.73	19.78	19.65	20.5	2.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.56	20.77	20.75	22.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	20.52	20.64	20.61	22.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	20.58	20.74	20.62	22.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.63	20.60	20.54	22.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	20.63	20.63	20.77	22.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.54	20.73	20.55	22.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	20.59	20.64	20.57	22.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	20.63	20.66	20.51	22.5	0.0



Part27Q n77 Ant 6								
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					633334		22.5	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		21.24		22.5	0.0
100	PI/2 BPSK	1	137		21.34			
100	PI/2 BPSK	1	271		21.21			
100	PI/2 BPSK	135	0		21.33		22.5	0.0
100	PI/2 BPSK	135	69		21.21		22.5	0.0
100	PI/2 BPSK	135	138		21.33		22.5	0.0
100	PI/2 BPSK	270	0		21.22		22.5	0.0
100	QPSK	1	1		21.35			
100	QPSK	1	137		21.11			
100	QPSK	1	271		21.11		22.5	0.0
100	QPSK	135	0		20.82			
100	QPSK	135	69		21.27			
100	QPSK	135	138		21.20		22.5	0.0
100	QPSK	270	0		21.16		22.5	0.0
100	16QAM	1	1		21.05			
100	64QAM	1	1		21.02			
100	256QAM	1	1		19.61		20.5	2.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	20.80	20.92	20.79	22.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.70	20.88	20.74	22.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	20.69	20.92	20.77	22.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	20.77	20.82	20.76	22.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	20.67	20.79	20.82	22.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	20.76	20.79	20.77	22.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	20.72	20.81	20.78	22.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	20.77	20.82	20.76	22.5	0.0



Part270 n78 Ant 6								
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	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		20.97		22.5	0.0
100	PI/2 BPSK	1	137		21.03			
100	PI/2 BPSK	1	271		21.03			
100	PI/2 BPSK	135	0		21.04		22.5	0.0
100	PI/2 BPSK	135	69		21.07		22.5	0.0
100	PI/2 BPSK	135	138		21.10		22.5	0.0
100	PI/2 BPSK	270	0		21.00			
100	QPSK	1	1		21.11		22.5	0.0
100	QPSK	1	137		20.88			
100	QPSK	1	271		20.96			
100	QPSK	135	0		20.61		22.5	0.0
100	QPSK	135	69		21.08		22.5	0.0
100	QPSK	135	138		20.99		22.5	0.0
100	QPSK	270	0		21.09			
100	16QAM	1	1		21.04		22.5	0.0
100	64QAM	1	1		21.01		22.5	0.0
100	256QAM	1	1		19.73		20.5	2.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	20.78	20.90	20.88	22.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	20.75	20.80	20.81	22.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	20.66	20.90	20.82	22.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	20.71	20.90	20.91	22.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	20.82	20.77	20.82	22.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.74	20.78	20.82	22.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	20.68	20.91	20.82	22.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	20.57	20.55	20.57	22.5	0.0



Part27Q n78 Ant 6								
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					633334		22.5	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		21.07		22.5	0.0
100	PI/2 BPSK	1	137		21.12			
100	PI/2 BPSK	1	271		21.11			
100	PI/2 BPSK	135	0		21.08		22.5	0.0
100	PI/2 BPSK	135	69		21.13		22.5	0.0
100	PI/2 BPSK	135	138		21.17		22.5	0.0
100	PI/2 BPSK	270	0		21.11			
100	QPSK	1	1		21.25		22.5	0.0
100	QPSK	1	137		20.96			
100	QPSK	1	271		21.04			
100	QPSK	135	0		20.72		22.5	0.0
100	QPSK	135	69		21.22		22.5	0.0
100	QPSK	135	138		21.13		22.5	0.0
100	QPSK	270	0		21.13			
100	16QAM	1	1		21.07		22.5	0.0
100	64QAM	1	1		21.09		22.5	0.0
100	256QAM	1	1		20.02		20.5	2.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	20.66	20.84	20.81	22.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.71	20.79	20.79	22.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	20.77	20.92	20.80	22.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	20.78	20.90	20.90	22.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	20.70	20.80	20.90	22.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	20.64	20.87	20.80	22.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	20.51	20.58	20.55	22.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	20.81	20.78	20.85	22.5	0.0



Reduced Power Mode for DSI 1

Ant 0

n5 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.23	23.30	23.16		
20	PI/2 BPSK	1	53	23.23	23.32	23.17	23.5	0.5
20	PI/2 BPSK	1	104	23.16	23.21	23.19		
20	PI/2 BPSK	50	0	22.79	22.85	22.80		
20	PI/2 BPSK	50	28	23.25	23.31	23.27	23.5	0.5
20	PI/2 BPSK	50	56	22.61	22.73	22.66		
20	PI/2 BPSK	100	0	22.77	22.83	22.74		
20	QPSK	1	1	23.33	23.37	23.27	24.0	0.0
20	QPSK	1	53	23.29	23.31	23.27		
20	QPSK	1	104	23.07	23.17	23.04		
20	QPSK	50	0	22.29	22.32	22.27	23.0	1.0
20	QPSK	50	28	23.31	23.34	23.31		
20	QPSK	50	56	22.21	22.28	22.14		
20	QPSK	100	0	22.20	22.36	22.26	23.0	1.0
20	16QAM	1	1	22.25	22.39	22.30		
20	64QAM	1	1	20.79	20.91	20.81		
20	256QAM	1	1	18.62	18.74	18.63	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.25	23.32	23.15	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.29	23.31	23.23	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.30	23.28	23.16	24.0	0.0



n71 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134600	136100	137600	24.0	0.0
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.03	23.12	22.96		
20	PI/2 BPSK	1	53	23.16	23.19	23.02	23.5	0.5
20	PI/2 BPSK	1	104	22.93	23.08	22.94		
20	PI/2 BPSK	50	0	22.65	22.67	22.50		
20	PI/2 BPSK	50	28	23.11	23.18	23.10	23.5	0.5
20	PI/2 BPSK	50	56	22.52	22.65	22.58		
20	PI/2 BPSK	100	0	22.54	22.63	22.58		
20	QPSK	1	1	23.23	23.30	23.17	24.0	0.0
20	QPSK	1	53	23.04	23.14	23.09		
20	QPSK	1	104	22.90	23.01	22.92		
20	QPSK	50	0	22.17	22.22	22.09	23.0	1.0
20	QPSK	50	28	23.16	23.22	23.16	24.0	0.0
20	QPSK	50	56	22.02	22.11	21.97	23.0	1.0
20	QPSK	100	0	22.12	22.27	22.18		
20	16QAM	1	1	21.87	22.03	21.96	23.0	1.0
20	64QAM	1	1	20.31	20.46	20.33	21.5	2.5
20	256QAM	1	1	18.26	18.28	18.11	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.10	23.26	23.12	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.11	23.27	23.12	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.17	23.16	23.14	24.0	0.0



n41 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	21.4	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.11	20.14	20.05	21.4	0.0
100	PI/2 BPSK	1	137	19.99	20.14	20.00		
100	PI/2 BPSK	1	271	20.08	20.22	20.07		
100	PI/2 BPSK	135	0	20.00	20.19	20.04	21.4	0.0
100	PI/2 BPSK	135	69	20.03	20.16	20.06	21.4	0.0
100	PI/2 BPSK	135	138	20.04	20.22	20.10	21.4	0.0
100	PI/2 BPSK	270	0	20.03	20.12	20.01		
100	QPSK	1	1	20.14	20.27	20.14	21.4	0.0
100	QPSK	1	137	20.04	20.22	20.07		
100	QPSK	1	271	20.04	20.15	20.01		
100	QPSK	135	0	20.10	20.15	20.11	21.4	0.0
100	QPSK	135	69	20.01	20.21	20.09	21.4	0.0
100	QPSK	135	138	20.10	20.20	20.05	21.4	0.0
100	QPSK	270	0	20.04	20.19	20.03		
100	16QAM	1	1	20.00	20.18	20.05	21.4	0.0
100	64QAM	1	1	19.15	19.29	19.07	20.5	0.9
100	256QAM	1	1	16.78	16.94	16.73	18.5	2.9
Channel				508200	518598	528996	21.4	0.0
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.05	20.16	20.07	21.4	0.0
Channel				507204	518598	529998	21.4	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.07	20.19	20.10	21.4	0.0
Channel				506202	518598	531000	21.4	0.0
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.99	20.23	20.10	21.4	0.0
Channel				505200	518598	531996	21.4	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.00	20.23	20.06	21.4	0.0
Channel				504204	518598	532998	21.4	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	20.04	20.20	20.00	21.4	0.0
Channel				503202	518598	534000	21.4	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.06	20.14	20.06	21.4	0.0
Channel				502200	518598	534996	21.4	0.0
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.09	20.20	20.01	21.4	0.0
Channel				501204	518598	535998	21.4	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.11	20.15	20.06	21.4	0.0



Part270 n77 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	22.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.09	21.25	21.12	22.0	0.0
100	PI/2 BPSK	1	137	20.96	21.09	21.06		
100	PI/2 BPSK	1	271	21.00	21.12	21.03		
100	PI/2 BPSK	135	0	20.92	20.98	20.94	22.0	0.0
100	PI/2 BPSK	135	69	21.04	21.12	20.98	22.0	0.0
100	PI/2 BPSK	135	138	20.87	20.85	20.85	22.0	0.0
100	PI/2 BPSK	270	0	20.77	20.90	20.76		
100	QPSK	1	1	21.31	21.36	21.19	22.0	0.0
100	QPSK	1	137	21.10	21.20	21.09		
100	QPSK	1	271	21.20	21.22	21.18		
100	QPSK	135	0	20.95	20.97	20.95	22.0	0.0
100	QPSK	135	69	21.23	21.26	21.24	22.0	0.0
100	QPSK	135	138	20.75	20.92	20.78	22.0	0.0
100	QPSK	270	0	20.87	20.96	20.75		
100	16QAM	1	1	20.81	20.91	20.82	22.0	0.0
100	64QAM	1	1	20.51	20.63	20.48	21.5	0.5
100	256QAM	1	1	18.39	18.52	18.41	19.5	2.5
Channel				649668	656000	662334	22.0	0.0
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.23	21.33	21.06	22.0	0.0
Channel				649334	656000	662668	22.0	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.16	21.25	21.11	22.0	0.0
Channel				649000	656000	663000	22.0	0.0
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.16	21.32	21.10	22.0	0.0
Channel				648668	656000	663334	22.0	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.16	21.28	21.09	22.0	0.0
Channel				648334	656000	663668	22.0	0.0
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.18	21.29	21.12	22.0	0.0
Channel				648000	656000	664000	22.0	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.15	21.20	21.08	22.0	0.0
Channel				647668	656000	664334	22.0	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	21.21	21.33	21.08	22.0	0.0
Channel				647334	656000	664668	22.0	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.29	21.26	21.10	22.0	0.0



Part27Q n77 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		22.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		20.71		22.0	0.0
100	PI/2 BPSK	1	137		20.65			
100	PI/2 BPSK	1	271		20.58			
100	PI/2 BPSK	135	0		20.50		22.0	0.0
100	PI/2 BPSK	135	69		20.65		22.0	0.0
100	PI/2 BPSK	135	138		20.58		22.0	0.0
100	PI/2 BPSK	270	0		20.62			
100	QPSK	1	1		20.76		22.0	0.0
100	QPSK	1	137		20.63			
100	QPSK	1	271		20.68			
100	QPSK	135	0		20.63		22.0	0.0
100	QPSK	135	69		20.72		22.0	0.0
100	QPSK	135	138		20.64		22.0	0.0
100	QPSK	270	0		20.68			
100	16QAM	1	1		20.54		22.0	0.0
100	64QAM	1	1		20.36		21.5	0.5
100	256QAM	1	1		18.27		19.5	2.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	20.65	20.66	20.58	22.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.59	20.68	20.46	22.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	20.52	20.71	20.66	22.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	20.74	20.68	20.47	22.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	20.69	20.62	20.58	22.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	20.66	20.59	20.53	22.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	20.60	20.75	20.61	22.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	20.66	20.60	20.53	22.0	0.0



Part270 n78 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		21.16		22.0	0.0
100	PI/2 BPSK	1	137		21.08			
100	PI/2 BPSK	1	271		21.03			
100	PI/2 BPSK	135	0		21.01		22.0	0.0
100	PI/2 BPSK	135	69		21.01		22.0	0.0
100	PI/2 BPSK	135	138		20.89		22.0	0.0
100	PI/2 BPSK	270	0		20.93			
100	QPSK	1	1		21.22		22.0	0.0
100	QPSK	1	137		21.17			
100	QPSK	1	271		21.11			
100	QPSK	135	0		21.03		22.0	0.0
100	QPSK	135	69		21.17		22.0	0.0
100	QPSK	135	138		21.05		22.0	0.0
100	QPSK	270	0		21.13			
100	16QAM	1	1		21.02		22.0	0.0
100	64QAM	1	1		20.55		21.5	0.5
100	256QAM	1	1		18.35		19.5	2.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.04	21.16	21.11	22.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.08	21.11	21.02	22.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.14	21.17	21.00	22.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.16	21.20	20.52	22.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.04	21.09	20.99	22.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.99	20.19	21.05	22.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	20.11	21.20	21.05	22.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.00	21.13	21.04	22.0	0.0



Part27Q n78 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		22.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		20.64		22.0	0.0
100	PI/2 BPSK	1	137		20.58			
100	PI/2 BPSK	1	271		20.51			
100	PI/2 BPSK	135	0		20.46		22.0	0.0
100	PI/2 BPSK	135	69		20.68		22.0	0.0
100	PI/2 BPSK	135	138		20.42		22.0	0.0
100	PI/2 BPSK	270	0		20.49			
100	QPSK	1	1		20.70		22.0	0.0
100	QPSK	1	137		20.65			
100	QPSK	1	271		20.68			
100	QPSK	135	0		20.62		22.0	0.0
100	QPSK	135	69		20.64		22.0	0.0
100	QPSK	135	138		20.45		22.0	0.0
100	QPSK	270	0		20.53			
100	16QAM	1	1		20.35		22.0	0.0
100	64QAM	1	1		20.29		21.5	0.5
100	256QAM	1	1		18.17		19.5	2.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	20.57	20.62	20.51	22.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.56	20.66	20.58	22.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	20.56	20.62	20.62	22.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	20.68	20.59	20.68	22.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	20.67	20.66	20.67	22.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	20.61	20.68	20.62	22.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	20.61	20.65	20.56	22.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	20.68	20.67	20.61	22.0	0.0



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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	1880	1900		
20	PI/2 BPSK	1	1	22.93	22.98	22.92	24.0	0.0
20	PI/2 BPSK	1	53	22.91	22.94	22.90		
20	PI/2 BPSK	1	104	22.81	22.89	22.83		
20	PI/2 BPSK	50	0	22.41	22.43	22.27	23.5	0.5
20	PI/2 BPSK	50	28	22.88	22.96	22.88	24.0	0.0
20	PI/2 BPSK	50	56	22.38	22.44	22.42	23.5	0.5
20	PI/2 BPSK	100	0	22.35	22.43	22.35		
20	QPSK	1	1	22.83	23.00	22.92	24.0	0.0
20	QPSK	1	53	22.85	22.96	22.87		
20	QPSK	1	104	22.76	22.85	22.80		
20	QPSK	50	0	21.89	22.00	21.97	23.0	1.0
20	QPSK	50	28	22.76	22.93	22.79	24.0	0.0
20	QPSK	50	56	21.79	21.96	21.83	23.0	1.0
20	QPSK	100	0	21.91	21.98	21.81		
20	16QAM	1	1	21.90	22.00	21.97	23.0	1.0
20	64QAM	1	1	20.42	20.56	20.46	21.5	2.5
20	256QAM	1	1	18.34	18.41	18.32	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.72	22.88	22.85	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	22.69	22.89	22.79	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	22.80	22.92	22.87	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				346000	349000	352000	24.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	23.08	23.21	23.13		
40	PI/2 BPSK	1	108	23.02	23.15	23.05	23.5	0.5
40	PI/2 BPSK	1	214	23.01	23.08	23.03		
40	PI/2 BPSK	108	0	22.54	22.61	22.54		
40	PI/2 BPSK	108	54	23.05	23.18	23.04	23.5	0.5
40	PI/2 BPSK	108	108	22.63	22.66	22.54		
40	PI/2 BPSK	216	0	22.49	22.64	22.60		
40	QPSK	1	1	23.09	23.27	23.18	24.0	0.0
40	QPSK	1	108	23.14	23.20	23.03		
40	QPSK	1	214	23.02	23.04	22.92		
40	QPSK	108	0	22.09	22.12	22.07	23.0	1.0
40	QPSK	108	54	23.18	23.23	23.06		
40	QPSK	108	108	22.00	22.15	22.08		
40	QPSK	216	0	22.14	22.18	22.12	23.0	1.0
40	16QAM	1	1	21.83	21.85	21.69		
40	64QAM	1	1	20.19	20.31	20.15		
40	256QAM	1	1	18.14	18.21	18.10	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.00	23.12	23.03	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.01	23.25	23.13	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.96	23.21	23.13	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.92	23.24	23.02	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.97	23.22	23.05	24.0	0.0



Part270 n77 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				650000	656000	662000	23.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.98	22.08	21.99		
100	PI/2 BPSK	1	137	21.97	22.06	21.94	22.5	0.5
100	PI/2 BPSK	1	271	21.87	21.91	21.80		
100	PI/2 BPSK	135	0	21.55	21.57	21.50		
100	PI/2 BPSK	135	69	21.96	22.05	22.00	22.5	0.5
100	PI/2 BPSK	135	138	21.51	21.49	21.39		
100	PI/2 BPSK	270	0	21.41	21.59	21.45		
100	QPSK	1	1	21.98	22.13	22.00	23.0	0.0
100	QPSK	1	137	21.98	22.06	21.89		
100	QPSK	1	271	21.89	21.95	21.93		
100	QPSK	135	0	20.85	21.02	20.85	22.0	1.0
100	QPSK	135	69	21.99	22.07	21.99		
100	QPSK	135	138	20.82	21.02	20.93		
100	QPSK	270	0	20.94	21.09	20.86	22.0	1.0
100	16QAM	1	1	20.93	21.01	20.92		
100	64QAM	1	1	19.41	19.39	19.38		
100	256QAM	1	1	17.12	17.15	17.10	18.5	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.88	22.03	21.92	23.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.95	22.01	21.92	23.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.88	22.05	21.88	23.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.84	22.04	21.91	23.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.86	22.09	21.94	23.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.83	22.08	21.91	23.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	21.88	21.98	21.94	23.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.85	22.10	21.91	23.0	0.0



Part27Q n77 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					633334		23.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.14		23.0	0.0
100	PI/2 BPSK	1	137		22.05			
100	PI/2 BPSK	1	271		21.94			
100	PI/2 BPSK	135	0		21.57		22.5	0.5
100	PI/2 BPSK	135	69		21.93		23.0	0.0
100	PI/2 BPSK	135	138		21.56		22.5	0.5
100	PI/2 BPSK	270	0		21.64			
100	QPSK	1	1		22.18		23.0	0.0
100	QPSK	1	137		22.04			
100	QPSK	1	271		21.95			
100	QPSK	135	0		21.07		22.0	1.0
100	QPSK	135	69		22.04		23.0	0.0
100	QPSK	135	138		21.05		22.0	1.0
100	QPSK	270	0		21.14			
100	16QAM	1	1		21.01		22.0	1.0
100	64QAM	1	1		19.65		20.5	2.5
100	256QAM	1	1		17.16		18.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.09	22.05	21.84	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.03	22.12	21.95	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.08	22.11	21.91	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.06	22.13	21.86	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.98	22.10	21.92	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.04	22.09	21.86	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.05	22.03	21.84	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.99	22.11	21.86	23.0	0.0



Part270 n78 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				650000	650000	650000	23.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		22.01		23.0	0.0
100	PI/2 BPSK	1	137		22.02			
100	PI/2 BPSK	1	271		21.99			
100	PI/2 BPSK	135	0		21.42		22.5	0.5
100	PI/2 BPSK	135	69		22.00		23.0	0.0
100	PI/2 BPSK	135	138		21.49		22.5	0.5
100	PI/2 BPSK	270	0		21.49			
100	QPSK	1	1		22.09		23.0	0.0
100	QPSK	1	137		22.00			
100	QPSK	1	271		21.87			
100	QPSK	135	0		20.90		22.0	1.0
100	QPSK	135	69		21.91		23.0	0.0
100	QPSK	135	138		20.90		22.0	1.0
100	QPSK	270	0		20.89			
100	16QAM	1	1		20.81		22.0	1.0
100	64QAM	1	1		19.57		20.5	2.5
100	256QAM	1	1		17.10		18.5	4.5
Channel				649668	650000	650334	23.0	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.95	21.98	21.90		
Channel				649334	650000	650668	23.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.89	22.05	21.97		
Channel				649000	650000	651000	23.0	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.90	22.00	21.92		
Channel				648668	650000	651334	23.0	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.90	21.97	21.88		
Channel				648334	650000	651668	23.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.96	21.98	21.93		
Channel				648000	650000	652000	23.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.92	21.96	21.89		
Channel				647668	650000	652334	23.0	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.97	21.95	21.93		
Channel				647334	650000	652668	23.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.98	21.97	21.92		



Part27Q n78 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					633334		23.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		21.91		23.0	0.0
100	PI/2 BPSK	1	137		21.87			
100	PI/2 BPSK	1	271		21.92			
100	PI/2 BPSK	135	0		21.40		22.5	0.5
100	PI/2 BPSK	135	69		21.93		23.0	0.0
100	PI/2 BPSK	135	138		21.44		22.5	0.5
100	PI/2 BPSK	270	0		21.43			
100	QPSK	1	1		22.02		23.0	0.0
100	QPSK	1	137		21.85			
100	QPSK	1	271		21.86			
100	QPSK	135	0		20.87		22.0	1.0
100	QPSK	135	69		21.99		23.0	0.0
100	QPSK	135	138		20.84		22.0	1.0
100	QPSK	270	0		20.98			
100	16QAM	1	1		20.89		22.0	1.0
100	64QAM	1	1		19.44		20.5	2.5
100	256QAM	1	1		17.03		18.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.85	21.97	21.91	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.85	21.89	21.90	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.87	21.93	21.86	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.85	21.98	21.88	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.89	21.93	21.87	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.88	21.92	21.80	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.92	21.97	21.85	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.88	21.95	21.82	23.0	0.0



Ant 2

n7 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				504000	507000	510000	22.2	0.0
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	20.79	20.83	20.63		
40	PI/2 BPSK	1	108	20.80	20.79	20.61	22.2	0.0
40	PI/2 BPSK	1	214	20.73	20.80	20.60		
40	PI/2 BPSK	108	0	20.77	20.87	20.70		
40	PI/2 BPSK	108	54	20.81	20.87	20.61	22.2	0.0
40	PI/2 BPSK	108	108	20.75	20.84	20.64		
40	PI/2 BPSK	216	0	20.77	20.81	20.68		
40	QPSK	1	1	20.85	20.91	20.73	22.2	0.0
40	QPSK	1	108	20.76	20.77	20.67		
40	QPSK	1	214	20.77	20.85	20.70		
40	QPSK	108	0	20.74	20.79	20.61	22.2	0.0
40	QPSK	108	54	20.80	20.85	20.58		
40	QPSK	108	108	20.76	20.78	20.60		
40	QPSK	216	0	20.75	20.83	20.61	22.2	0.0
40	16QAM	1	1	20.79	20.80	20.58		
40	64QAM	1	1	20.61	20.74	20.57		
40	256QAM	1	1	18.74	18.80	18.68	19.5	2.7
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	20.65	20.74	20.47	22.2	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	20.61	20.67	20.46	22.2	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	20.63	20.65	20.55	22.2	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	20.63	20.69	20.49	22.2	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	20.71	20.66	20.56	22.2	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	20.65	20.68	20.53	22.2	0.0



n38 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				518004	519000	519996	23.5	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.02	22.02	21.79		
40	PI/2 BPSK	1	53	21.98	22.13	21.92	23.5	0.0
40	PI/2 BPSK	1	104	21.95	22.13	21.81		
40	PI/2 BPSK	50	0	22.08	22.17	21.82		
40	PI/2 BPSK	50	28	22.14	21.99	21.87	23.5	0.0
40	PI/2 BPSK	50	56	22.01	22.09	21.85	23.5	0.0
40	PI/2 BPSK	100	0	22.03	22.08	21.89		
40	QPSK	1	1	22.12	22.13	21.92		
40	QPSK	1	53	22.10	22.18	21.86	23.5	0.0
40	QPSK	1	104	22.03	22.05	21.89		
40	QPSK	50	0	21.99	22.10	21.80		
40	QPSK	50	28	21.94	22.14	21.88	23.5	0.0
40	QPSK	50	56	22.08	22.10	21.92	23.0	0.5
40	QPSK	100	0	21.97	22.04	21.92		
40	16QAM	1	1	22.02	22.07	21.91		
40	64QAM	1	1	20.65	20.69	20.61	21.5	2.0
40	256QAM	1	1	18.58	18.64	18.59	19.5	4.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.06	22.13	21.87	23.5	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.09	22.14	21.86	23.5	0.0



n41 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.07	22.15	21.93	23.5	0.0
100	PI/2 BPSK	1	137	22.08	22.19	21.96		
100	PI/2 BPSK	1	271	22.10	22.18	21.93		
100	PI/2 BPSK	135	0	22.16	22.22	21.94	23.5	0.0
100	PI/2 BPSK	135	69	22.19	22.13	21.90	23.5	0.0
100	PI/2 BPSK	135	138	22.08	22.14	21.90	23.5	0.0
100	PI/2 BPSK	270	0	22.14	22.16	22.00		
100	QPSK	1	1	22.22	22.27	22.04	23.5	0.0
100	QPSK	1	137	22.16	22.22	21.95		
100	QPSK	1	271	22.12	22.17	21.98		
100	QPSK	135	0	22.09	22.15	21.95	23.0	0.5
100	QPSK	135	69	22.09	22.23	21.96	23.5	0.0
100	QPSK	135	138	22.15	22.17	21.97	23.0	0.5
100	QPSK	270	0	22.10	22.15	21.98		
100	16QAM	1	1	22.09	22.14	21.98	23.0	0.5
100	64QAM	1	1	20.72	20.75	20.67	21.5	2.0
100	256QAM	1	1	18.57	18.72	18.67	19.5	4.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.18	22.18	21.97	23.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.16	22.14	21.99	23.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.08	22.19	21.95	23.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.10	22.22	22.00	23.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.12	22.15	21.90	23.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.08	22.13	21.89	23.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.10	22.23	21.95	23.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.13	22.18	22.01	23.5	0.0



Ant 3

n41 Ant 3								
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				509202	518598	528000	23.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.06	22.12	22.04	23.0	0.0
100	PI/2 BPSK	1	137	21.87	22.08	22.00		
100	PI/2 BPSK	1	271	21.91	22.00	21.87		
100	PI/2 BPSK	135	0	21.37	21.53	21.49	22.5	0.5
100	PI/2 BPSK	135	69	22.04	22.05	21.96	23.0	0.0
100	PI/2 BPSK	135	138	21.43	21.45	21.42	22.5	0.5
100	PI/2 BPSK	270	0	21.53	21.53	21.49		
100	QPSK	1	1	22.12	22.18	22.07	23.0	0.0
100	QPSK	1	137	21.87	22.06	22.07		
100	QPSK	1	271	21.88	22.03	21.96		
100	QPSK	135	0	21.03	21.07	20.94	22.0	1.0
100	QPSK	135	69	22.08	22.12	22.07	23.0	0.0
100	QPSK	135	138	20.95	20.96	20.84	22.0	1.0
100	QPSK	270	0	20.88	21.04	20.92		
100	16QAM	1	1	20.99	21.17	21.16	22.0	1.0
100	64QAM	1	1	19.65	19.65	19.62	20.5	2.5
100	256QAM	1	1	17.30	17.34	17.22	18.5	4.5
Channel				508200	518598	528996	23.0	0.0
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.99	21.99	21.94	23.0	0.0
Channel				507204	518598	529998	23.0	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.94	22.03	21.98	23.0	0.0
Channel				506202	518598	531000	23.0	0.0
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.10	22.09	21.96	23.0	0.0
Channel				505200	518598	531996	23.0	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	21.91	22.13	22.03	23.0	0.0
Channel				504204	518598	532998	23.0	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.12	22.01	22.02	23.0	0.0
Channel				503202	518598	534000	23.0	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.97	22.00	21.88	23.0	0.0
Channel				502200	518598	534996	23.0	0.0
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.00	22.06	21.88	23.0	0.0
Channel				501204	518598	535998	23.0	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.11	22.04	22.03	23.0	0.0



Ant 4

n41 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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.70	22.79	22.60	24.0	0.0
100	PI/2 BPSK	1	137	22.60	22.72	22.60		
100	PI/2 BPSK	1	271	22.51	22.67	22.52		
100	PI/2 BPSK	135	0	22.04	22.24	22.09	23.5	0.5
100	PI/2 BPSK	135	69	22.68	22.66	22.57	24.0	0.0
100	PI/2 BPSK	135	138	22.09	22.11	22.02	23.5	0.5
100	PI/2 BPSK	270	0	22.07	22.18	22.13		
100	QPSK	1	1	22.77	22.85	22.81	24.0	0.0
100	QPSK	1	137	22.71	22.77	22.73		
100	QPSK	1	271	22.63	22.73	22.60		
100	QPSK	135	0	21.58	21.71	21.63	23.0	1.0
100	QPSK	135	69	22.60	22.69	22.56	24.0	0.0
100	QPSK	135	138	21.61	21.66	21.65	23.0	1.0
100	QPSK	270	0	21.51	21.72	21.58		
100	16QAM	1	1	21.89	21.88	21.77	23.0	1.0
100	64QAM	1	1	20.23	20.34	20.35	21.5	2.5
100	256QAM	1	1	17.93	18.06	18.06	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.73	22.69	22.62	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.63	22.78	22.80	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.74	22.77	22.77	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.68	22.81	22.69	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.66	22.70	22.70	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.68	22.69	22.72	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.56	22.67	22.62	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.57	22.76	22.61	24.0	0.0



Ant 5

Part270 n77 PC2&PC3 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	19.9	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.73	18.85	18.69		
100	PI/2 BPSK	1	137	18.70	18.79	18.68	19.9	0.0
100	PI/2 BPSK	1	271	18.69	18.90	18.71		
100	PI/2 BPSK	135	0	18.63	18.85	18.65		
100	PI/2 BPSK	135	69	18.67	18.87	18.65	19.9	0.0
100	PI/2 BPSK	135	138	18.73	18.82	18.73	19.9	0.0
100	PI/2 BPSK	270	0	18.65	18.87	18.65		
100	QPSK	1	1	18.77	18.97	18.81		
100	QPSK	1	137	18.76	18.84	18.73	19.9	0.0
100	QPSK	1	271	18.70	18.80	18.68		
100	QPSK	135	0	18.72	18.84	18.68		
100	QPSK	135	69	18.64	18.90	18.77	19.9	0.0
100	QPSK	135	138	18.74	18.88	18.73	19.9	0.0
100	QPSK	270	0	18.72	18.81	18.71		
100	16QAM	1	1	18.70	18.80	18.66		
100	64QAM	1	1	18.66	18.72	18.78	19.9	0.0
100	256QAM	1	1	18.74	18.78	18.68	19.9	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.66	18.83	18.71	19.9	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.61	18.74	18.60	19.9	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	18.66	18.83	18.64	19.9	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.67	18.81	18.59	19.9	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.66	18.82	18.67	19.9	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.69	18.85	18.65	19.9	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.57	18.82	18.62	19.9	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.59	18.84	18.62	19.9	0.0



Part27Q n77 PC2&PC3 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		19.9	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.92		19.9	0.0
100	PI/2 BPSK	1	137		18.86			
100	PI/2 BPSK	1	271		18.95			
100	PI/2 BPSK	135	0		18.93		19.9	0.0
100	PI/2 BPSK	135	69		18.91		19.9	0.0
100	PI/2 BPSK	135	138		18.89		19.9	0.0
100	PI/2 BPSK	270	0		18.93			
100	QPSK	1	1		19.02		19.9	0.0
100	QPSK	1	137		18.88			
100	QPSK	1	271		18.84			
100	QPSK	135	0		18.91		19.9	0.0
100	QPSK	135	69		18.98		19.9	0.0
100	QPSK	135	138		18.96		19.9	0.0
100	QPSK	270	0		18.88			
100	16QAM	1	1		18.80		19.9	0.0
100	64QAM	1	1		18.76		19.9	0.0
100	256QAM	1	1		18.78		19.9	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.68	18.79	18.65	19.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.66	18.82	18.65	19.9	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.65	18.79	18.67	19.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.67	18.78	18.65	19.9	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	18.67	18.79	18.67	19.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.66	18.80	18.66	19.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.69	18.79	18.67	19.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.65	18.82	18.64	19.9	0.0



Part270 n78 PC2&PC3 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		18.77		19.9	0.0
100	PI/2 BPSK	1	137		18.68			
100	PI/2 BPSK	1	271		18.75			
100	PI/2 BPSK	135	0		18.82		19.9	0.0
100	PI/2 BPSK	135	69		18.74		19.9	0.0
100	PI/2 BPSK	135	138		18.70		19.9	0.0
100	PI/2 BPSK	270	0		18.76			
100	QPSK	1	1		18.90		19.9	0.0
100	QPSK	1	137		18.72			
100	QPSK	1	271		18.67			
100	QPSK	135	0		18.70		19.9	0.0
100	QPSK	135	69		18.77		19.9	0.0
100	QPSK	135	138		18.76		19.9	0.0
100	QPSK	270	0		18.68			
100	16QAM	1	1		18.70		19.9	0.0
100	64QAM	1	1		18.66		19.9	0.0
100	256QAM	1	1		18.65		19.9	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	18.42	18.65	18.50	19.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	18.49	18.67	18.48	19.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.47	18.62	18.55	19.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	18.45	18.66	18.48	19.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.41	18.64	18.47	19.9	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	18.50	18.60	18.54	19.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	18.46	18.65	18.53	19.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	18.45	18.64	18.53	19.9	0.0



Part27Q n78 PC2&PC3 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		19.9	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.77		19.9	0.0
100	PI/2 BPSK	1	137		18.77			
100	PI/2 BPSK	1	271		18.82			
100	PI/2 BPSK	135	0		18.85		19.9	0.0
100	PI/2 BPSK	135	69		18.88		19.9	0.0
100	PI/2 BPSK	135	138		18.82		19.9	0.0
100	PI/2 BPSK	270	0		18.79			
100	QPSK	1	1		18.98		19.9	0.0
100	QPSK	1	137		18.75			
100	QPSK	1	271		18.78			
100	QPSK	135	0		18.76		19.9	0.0
100	QPSK	135	69		18.93		19.9	0.0
100	QPSK	135	138		18.81		19.9	0.0
100	QPSK	270	0		18.81			
100	16QAM	1	1		18.71		19.9	0.0
100	64QAM	1	1		18.61		19.9	0.0
100	256QAM	1	1		18.65		19.9	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.48	18.60	18.56	19.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.45	18.59	18.49	19.9	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.47	18.61	18.56	19.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.46	18.67	18.46	19.9	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	18.50	18.60	18.55	19.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.46	18.63	18.51	19.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.44	18.58	18.49	19.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.46	18.69	18.47	19.9	0.0



Ant 6

Part270 n77 Ant 6								
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	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.44	22.52	22.38	23.2	0.0
100	PI/2 BPSK	1	137	22.36	22.45	22.37		
100	PI/2 BPSK	1	271	22.47	22.51	22.37		
100	PI/2 BPSK	135	0	22.45	22.54	22.28	23.2	0.0
100	PI/2 BPSK	135	69	22.45	22.47	22.31	23.2	0.0
100	PI/2 BPSK	135	138	22.37	22.47	22.29	23.2	0.0
100	PI/2 BPSK	270	0	22.41	22.53	22.27		
100	QPSK	1	1	22.51	22.59	22.42	23.2	0.0
100	QPSK	1	137	22.42	22.46	22.33		
100	QPSK	1	271	22.42	22.45	22.37		
100	QPSK	135	0	22.39	22.46	22.32	23.2	0.0
100	QPSK	135	69	22.42	22.52	22.31	23.2	0.0
100	QPSK	135	138	22.41	22.45	22.31	23.2	0.0
100	QPSK	270	0	22.44	22.49	22.37		
100	16QAM	1	1	22.40	22.47	22.34	23.2	0.0
100	64QAM	1	1	21.78	21.84	21.79	22.5	0.7
100	256QAM	1	1	19.73	19.78	19.65	20.5	2.7
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.68	21.77	21.64	23.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.68	21.78	21.64	23.2	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.71	21.80	21.75	23.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.74	21.80	21.70	23.2	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.75	21.77	21.74	23.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.72	21.70	21.67	23.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	21.69	21.76	21.73	23.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.73	21.70	21.66	23.2	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		23.2	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.16		23.2	0.0
100	PI/2 BPSK	1	137		22.19			
100	PI/2 BPSK	1	271		22.07			
100	PI/2 BPSK	135	0		21.98		23.2	0.0
100	PI/2 BPSK	135	69		22.16		23.2	0.0
100	PI/2 BPSK	135	138		21.98		23.2	0.0
100	PI/2 BPSK	270	0		22.07			
100	QPSK	1	1		22.21		23.2	0.0
100	QPSK	1	137		22.09			
100	QPSK	1	271		22.06			
100	QPSK	135	0		22.02		23.2	0.0
100	QPSK	135	69		22.18		23.2	0.0
100	QPSK	135	138		22.04		23.2	0.0
100	QPSK	270	0		22.09			
100	16QAM	1	1		21.96		23.2	0.0
100	64QAM	1	1		21.65		22.5	0.7
100	256QAM	1	1		19.61		20.5	2.7
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.60	21.65	21.51	23.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.54	21.72	21.54	23.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.61	21.70	21.50	23.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.63	21.73	21.60	23.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.62	21.63	21.60	23.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.62	21.66	21.50	23.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.58	21.69	21.53	23.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.61	21.72	21.61	23.2	0.0