



3	16QAM	8	7	21.53	21.56	21.52		
3	16QAM	15	0	21.55	21.51	21.42		
3	64QAM	1	0	21.56	21.73	21.61	23	1.5
3	64QAM	1	8	21.60	21.59	21.50		
3	64QAM	1	14	21.50	21.47	21.59		
3	64QAM	8	0	20.47	20.65	20.61	22	2.5
3	64QAM	8	4	20.59	20.51	20.46		
3	64QAM	8	7	20.48	20.67	20.43		
3	64QAM	15	0	20.46	20.59	20.37		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	23.30	23.37	23.26	24.5	0
1.4	QPSK	1	3	23.16	23.29	23.23		
1.4	QPSK	1	5	23.28	23.31	23.29		
1.4	QPSK	3	0	23.12	23.22	23.02		
1.4	QPSK	3	1	23.00	23.09	22.87		
1.4	QPSK	3	3	22.93	23.12	23.05		
1.4	QPSK	6	0	22.54	22.59	22.54	24	0.5
1.4	16QAM	1	0	22.58	22.59	22.49	24	0.5
1.4	16QAM	1	3	22.57	22.67	22.50		
1.4	16QAM	1	5	22.54	22.53	22.56		
1.4	16QAM	3	0	22.63	22.66	22.62		
1.4	16QAM	3	1	22.66	22.47	22.64		
1.4	16QAM	3	3	22.50	22.56	22.56		
1.4	16QAM	6	0	21.50	21.51	21.47	23	1.5
1.4	64QAM	1	0	21.57	21.73	21.54	23	1.5
1.4	64QAM	1	3	21.49	21.50	21.50		
1.4	64QAM	1	5	21.42	21.57	21.62		
1.4	64QAM	3	0	21.46	21.69	21.55		
1.4	64QAM	3	1	21.70	21.52	21.48		
1.4	64QAM	3	3	21.54	21.58	21.53		
1.4	64QAM	6	0	20.53	20.55	20.43		
							22	2.5



Band 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				20050	20175	20300	24.5	0
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	22.98	23.14	23.01	24.5	0
20	QPSK	1	49	23.05	23.01	22.86		
20	QPSK	1	99	22.95	23.11	22.95		
20	QPSK	50	0	22.59	22.80	22.56	24	0.5
20	QPSK	50	24	22.67	22.62	22.67		
20	QPSK	50	50	22.48	22.63	22.58		
20	QPSK	100	0	22.64	22.73	22.49	24	0.5
20	16QAM	1	0	22.52	22.57	22.47		
20	16QAM	1	49	22.64	22.65	22.60		
20	16QAM	1	99	22.45	22.59	22.57	23	1.5
20	16QAM	50	0	21.64	21.74	21.59		
20	16QAM	50	24	21.58	21.59	21.61		
20	16QAM	50	50	21.67	21.68	21.66	23	1.5
20	16QAM	100	0	21.61	21.46	21.48		
20	64QAM	1	0	21.43	21.73	21.61		
20	64QAM	1	49	21.46	21.62	21.42	23	1.5
20	64QAM	1	99	21.47	21.40	21.50		
20	64QAM	50	0	20.58	20.57	20.51		
20	64QAM	50	24	20.76	20.58	20.66	22	2.5
20	64QAM	50	50	20.42	20.51	20.55		
20	64QAM	100	0	20.48	20.60	20.28		
Channel				20025	20175	20325	24.5	0
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	22.89	23.08	22.96	24.5	0
15	QPSK	1	37	23.01	22.94	22.85		
15	QPSK	1	74	22.91	23.07	22.87		
15	QPSK	36	0	22.55	22.77	22.55	24	0.5
15	QPSK	36	20	22.65	22.56	22.64		
15	QPSK	36	39	22.43	22.58	22.54		
15	QPSK	75	0	22.63	22.64	22.47	24	0.5
15	16QAM	1	0	22.49	22.53	22.43		
15	16QAM	1	37	22.62	22.64	22.56		
15	16QAM	1	74	22.43	22.55	22.56	23	1.5
15	16QAM	36	0	21.63	21.68	21.50		
15	16QAM	36	20	21.56	21.56	21.57		
15	16QAM	36	39	21.61	21.64	21.58	23	1.5
15	16QAM	75	0	21.59	21.43	21.45		
15	64QAM	1	0	21.41	21.70	21.60		
15	64QAM	1	37	21.42	21.54	21.39	23	1.5
15	64QAM	1	74	21.46	21.38	21.48		
15	64QAM	36	0	20.53	20.48	20.43		
15	64QAM	36	20	20.73	20.55	20.63	22	2.5
15	64QAM	36	39	20.40	20.48	20.51		
15	64QAM	75	0	20.45	20.57	20.23		
Channel				20000	20175	20350	24.5	0
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	22.84	23.08	22.94	24.5	0
10	QPSK	1	25	22.97	22.89	22.73		
10	QPSK	1	49	22.82	23.02	22.87		
10	QPSK	25	0	22.47	22.67	22.42	24	0.5
10	QPSK	25	12	22.56	22.56	22.58		



10	QPSK	25	25	22.36	22.57	22.50		
10	QPSK	50	0	22.55	22.60	22.37		
10	16QAM	1	0	22.40	22.49	22.40	24	0.5
10	16QAM	1	25	22.53	22.52	22.46		
10	16QAM	1	49	22.35	22.49	22.43		
10	16QAM	25	0	21.57	21.66	21.52	23	1.5
10	16QAM	25	12	21.46	21.47	21.54		
10	16QAM	25	25	21.58	21.55	21.54		
10	16QAM	50	0	21.50	21.38	21.35	23	1.5
10	64QAM	1	0	21.32	21.65	21.49		
10	64QAM	1	25	21.34	21.53	21.32		
10	64QAM	1	49	21.39	21.31	21.43	22	2.5
10	64QAM	25	0	20.47	20.47	20.43		
10	64QAM	25	12	20.62	20.44	20.56		
10	64QAM	25	25	20.32	20.43	20.42	22	2.5
10	64QAM	50	0	20.40	20.52	20.17		
Channel				19975	20175	20375		
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	22.89	23.05	22.97	24.5	0
5	QPSK	1	12	23.03	22.93	22.84		
5	QPSK	1	24	22.86	23.09	22.85		
5	QPSK	12	0	22.52	22.73	22.52	24	0.5
5	QPSK	12	7	22.64	22.57	22.62		
5	QPSK	12	13	22.41	22.59	22.53		
5	QPSK	25	0	22.57	22.64	22.46	24	0.5
5	16QAM	1	0	22.45	22.48	22.41		
5	16QAM	1	12	22.59	22.56	22.53		
5	16QAM	1	24	22.39	22.51	22.52	23	1.5
5	16QAM	12	0	21.60	21.72	21.57		
5	16QAM	12	7	21.50	21.53	21.58		
5	16QAM	12	13	21.63	21.61	21.61	23	1.5
5	16QAM	25	0	21.57	21.37	21.38		
5	64QAM	1	0	21.40	21.70	21.54		
5	64QAM	1	12	21.38	21.60	21.34	23	1.5
5	64QAM	1	24	21.43	21.37	21.44		
5	64QAM	12	0	20.51	20.50	20.48		
5	64QAM	12	7	20.67	20.50	20.61	22	2.5
5	64QAM	12	13	20.39	20.41	20.45		
5	64QAM	25	0	20.46	20.52	20.21		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	22.87	23.05	22.85	24.5	0
3	QPSK	1	8	22.97	22.91	22.73		
3	QPSK	1	14	22.82	22.99	22.84		
3	QPSK	8	0	22.47	22.70	22.45	24	0.5
3	QPSK	8	4	22.51	22.49	22.52		
3	QPSK	8	7	22.38	22.52	22.49		
3	QPSK	15	0	22.50	22.57	22.34	24	0.5
3	16QAM	1	0	22.40	22.41	22.38		
3	16QAM	1	8	22.55	22.54	22.49		
3	16QAM	1	14	22.37	22.49	22.45	23	1.5
3	16QAM	8	0	21.50	21.65	21.50		
3	16QAM	8	4	21.47	21.43	21.50		
3	16QAM	8	7	21.54	21.59	21.56	23	1.5
3	16QAM	15	0	21.51	21.36	21.40		
3	64QAM	1	0	21.34	21.59	21.47		



3	64QAM	1	8	21.32	21.53	21.26		
3	64QAM	1	14	21.32	21.25	21.36		
3	64QAM	8	0	20.49	20.46	20.42	22	2.5
3	64QAM	8	4	20.62	20.49	20.57		
3	64QAM	8	7	20.33	20.38	20.45		
3	64QAM	15	0	20.33	20.47	20.18		
Channel				19957	20175	20393		
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	22.90	23.05	22.95	24.5	0
1.4	QPSK	1	3	22.96	22.96	22.88		
1.4	QPSK	1	5	22.94	23.04	22.90		
1.4	QPSK	3	0	22.54	22.84	22.53		
1.4	QPSK	3	1	22.60	22.59	22.69		
1.4	QPSK	3	3	22.50	22.61	22.59		
1.4	QPSK	6	0	22.60	22.71	22.49	24	0.5
1.4	16QAM	1	0	22.54	22.59	22.47	24	0.5
1.4	16QAM	1	3	22.60	22.60	22.55		
1.4	16QAM	1	5	22.47	22.55	22.51		
1.4	16QAM	3	0	22.54	22.62	22.44		
1.4	16QAM	3	1	22.65	22.53	22.53		
1.4	16QAM	3	3	22.41	22.50	22.47		
1.4	16QAM	6	0	21.56	21.49	21.40	23	1.5
1.4	64QAM	1	0	21.41	21.68	21.53	23	1.5
1.4	64QAM	1	3	21.44	21.55	21.41		
1.4	64QAM	1	5	21.46	21.43	21.45		
1.4	64QAM	3	0	21.41	21.69	21.53		
1.4	64QAM	3	1	21.44	21.51	21.38		
1.4	64QAM	3	3	21.38	21.45	21.44		
1.4	64QAM	6	0	20.46	20.58	20.34		



Band 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				20450	20525	20600	25	0
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	23.21	23.27	23.16		
10	QPSK	1	25	23.11	23.22	23.11	24	1
10	QPSK	1	49	23.13	23.17	23.14		
10	QPSK	25	0	22.36	22.43	22.24		
10	QPSK	25	12	22.39	22.21	22.35	24	1
10	QPSK	25	25	22.27	22.35	22.28		
10	QPSK	50	0	22.36	22.39	22.22		
10	16QAM	1	0	22.26	22.25	22.12	24	1
10	16QAM	1	25	22.26	22.31	22.26		
10	16QAM	1	49	22.18	22.15	22.27		
10	16QAM	25	0	21.35	21.40	21.27	23	2
10	16QAM	25	12	21.23	21.21	21.19		
10	16QAM	25	25	21.32	21.23	21.26		
10	16QAM	50	0	21.22	21.18	21.18	23	2
10	64QAM	1	0	21.20	21.39	21.23		
10	64QAM	1	25	21.14	21.26	21.12		
10	64QAM	1	49	21.13	21.14	21.25	22	3
10	64QAM	25	0	20.26	20.33	20.21		
10	64QAM	25	12	20.37	20.19	20.24		
10	64QAM	25	25	20.15	20.25	20.10	22	3
10	64QAM	25	0	20.17	20.20	20.19		
10	64QAM	50	0	20.17	20.20	20.19		
Channel				20425	20525	20625	25	0
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	23.09	23.15	23.11		
5	QPSK	1	12	23.05	23.07	23.01	24	1
5	QPSK	1	24	23.09	23.10	23.03		
5	QPSK	12	0	22.24	22.39	22.13		
5	QPSK	12	7	22.14	22.14	22.01	24	1
5	QPSK	12	13	22.09	22.20	22.14		
5	QPSK	25	0	22.17	22.28	22.06		
5	16QAM	1	0	22.16	22.19	22.00	24	1
5	16QAM	1	12	22.22	22.22	22.20		
5	16QAM	1	24	22.12	22.07	22.22		
5	16QAM	12	0	21.31	21.36	21.21	23	2
5	16QAM	12	7	21.15	21.06	21.01		
5	16QAM	12	13	21.00	21.17	21.11		
5	16QAM	25	0	21.12	21.13	21.03	23	2
5	64QAM	1	0	21.09	21.27	21.13		
5	64QAM	1	12	21.10	21.17	21.07		
5	64QAM	1	24	21.02	21.07	21.07	22	3
5	64QAM	12	0	20.18	20.27	20.09		
5	64QAM	12	7	20.30	20.06	20.19		
5	64QAM	12	13	20.07	20.11	20.07	22	3
5	64QAM	12	0	20.06	20.15	20.18		
5	64QAM	25	0	20.06	20.15	20.18		
Channel				20415	20525	20635	25	0
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	23.15	23.23	23.11		
3	QPSK	1	8	23.13	23.18	23.15	24	1
3	QPSK	1	14	23.11	23.06	23.09		
3	QPSK	8	0	22.30	22.30	22.07		
3	QPSK	8	4	22.05	22.10	22.17	24	1



3	QPSK	8	7	22.09	22.23	22.14		
3	QPSK	15	0	22.19	22.27	22.04		
3	16QAM	1	0	22.21	22.20	22.09	24	1
3	16QAM	1	8	22.23	22.17	22.18		
3	16QAM	1	14	22.02	22.02	22.11		
3	16QAM	8	0	21.24	21.37	21.18	23	2
3	16QAM	8	4	21.16	21.15	21.13		
3	16QAM	8	7	21.06	21.10	21.05		
3	16QAM	15	0	21.18	21.01	21.05	23	2
3	64QAM	1	0	21.11	21.36	21.11		
3	64QAM	1	8	21.01	21.18	21.02		
3	64QAM	1	14	21.07	21.02	21.14	22	3
3	64QAM	8	0	20.21	20.19	20.10		
3	64QAM	8	4	20.28	20.15	20.11		
3	64QAM	8	7	20.03	20.20	20.13	22	3
3	64QAM	15	0	20.11	20.23	20.16		
Channel				20407	20525	20643		
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	23.04	23.17	23.05	25	0
1.4	QPSK	1	3	23.03	23.12	23.09		
1.4	QPSK	1	5	23.10	23.19	23.01		
1.4	QPSK	3	0	23.14	23.18	23.13		
1.4	QPSK	3	1	23.05	23.09	23.04		
1.4	QPSK	3	3	23.05	23.10	23.14		
1.4	QPSK	6	0	22.27	22.29	22.25	24	1
1.4	16QAM	1	0	22.06	22.05	22.00	24	1
1.4	16QAM	1	3	22.09	22.23	22.10		
1.4	16QAM	1	5	22.19	22.22	22.09		
1.4	16QAM	3	0	22.15	22.18	22.05		
1.4	16QAM	3	1	22.04	22.20	22.00		
1.4	16QAM	3	3	22.18	22.14	22.12		
1.4	16QAM	6	0	21.20	21.24	21.25	23	2
1.4	64QAM	1	0	21.20	21.09	21.15	23	2
1.4	64QAM	1	3	21.06	21.07	21.02		
1.4	64QAM	1	5	21.18	21.21	21.06		
1.4	64QAM	3	0	21.18	21.19	21.10		
1.4	64QAM	3	1	21.05	21.22	21.03		
1.4	64QAM	3	3	21.06	21.11	21.06		
1.4	64QAM	6	0	20.16	20.25	20.01	22	3



Band 7								
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	23.1	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.14	22.18	22.03		
20	QPSK	1	49	22.10	22.15	22.00	23	0.1
20	QPSK	1	99	22.02	22.08	21.95		
20	QPSK	50	0	21.82	22.01	21.76		
20	QPSK	50	24	21.99	21.77	21.76	23	0.1
20	QPSK	50	50	21.85	21.81	21.74		
20	QPSK	100	0	21.87	21.93	21.78		
20	16QAM	1	0	21.76	21.73	21.68	23	0.1
20	16QAM	1	49	21.78	21.83	21.82		
20	16QAM	1	99	21.69	21.77	21.74		
20	16QAM	50	0	20.87	20.88	20.81	22	1.1
20	16QAM	50	24	20.84	20.72	20.83		
20	16QAM	50	50	20.89	20.72	20.71		
20	16QAM	100	0	20.70	20.66	20.67	22	1.1
20	64QAM	1	0	20.68	20.85	20.72		
20	64QAM	1	49	20.64	20.78	20.61		
20	64QAM	1	99	20.67	20.65	20.75	21	2.1
20	64QAM	50	0	19.70	19.85	19.72		
20	64QAM	50	24	19.81	19.65	19.78		
20	64QAM	50	50	19.73	19.85	19.62	21	2.1
20	64QAM	100	0	19.70	19.67	19.63		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.10	22.07	21.94		
15	QPSK	1	37	22.05	22.07	21.85	23	0.1
15	QPSK	1	74	21.91	22.05	21.87		
15	QPSK	36	0	21.74	21.95	21.64		
15	QPSK	36	20	21.90	21.68	21.69	23	0.1
15	QPSK	36	39	21.71	21.73	21.67		
15	QPSK	75	0	21.72	21.80	21.63		
15	16QAM	1	0	21.64	21.70	21.64	23	0.1
15	16QAM	1	37	21.74	21.78	21.70		
15	16QAM	1	74	21.66	21.72	21.63		
15	16QAM	36	0	20.73	20.81	20.75	22	1.1
15	16QAM	36	20	20.80	20.61	20.79		
15	16QAM	36	39	20.81	20.67	20.57		
15	16QAM	75	0	20.65	20.55	20.62	22	1.1
15	64QAM	1	0	20.61	20.81	20.65		
15	64QAM	1	37	20.54	20.71	20.56		
15	64QAM	1	74	20.55	20.61	20.64	21	2.1
15	64QAM	36	0	19.66	19.76	19.65		
15	64QAM	36	20	19.77	19.51	19.70		
15	64QAM	36	39	19.68	19.75	19.49	21	2.1
15	64QAM	75	0	19.56	19.60	19.56		
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	21.99	22.07	21.92		
10	QPSK	1	25	22.01	22.09	21.94	23	0.1
10	QPSK	1	49	21.91	22.00	21.88		
10	QPSK	25	0	21.73	21.90	21.65		
10	QPSK	25	12	21.92	21.63	21.62	23	0.1



10	QPSK	25	25	21.76	21.75	21.68		
10	QPSK	50	0	21.79	21.81	21.71		
10	16QAM	1	0	21.72	21.67	21.60	23	0.1
10	16QAM	1	25	21.73	21.78	21.75		
10	16QAM	1	49	21.56	21.73	21.64		
10	16QAM	25	0	20.83	20.74	20.66	22	1.1
10	16QAM	25	12	20.77	20.58	20.71		
10	16QAM	25	25	20.78	20.69	20.60		
10	16QAM	50	0	20.58	20.62	20.55		
10	64QAM	1	0	20.63	20.78	20.61	22	1.1
10	64QAM	1	25	20.49	20.64	20.47		
10	64QAM	1	49	20.63	20.56	20.61		
10	64QAM	25	0	19.64	19.77	19.59	21	2.1
10	64QAM	25	12	19.75	19.57	19.74		
10	64QAM	25	25	19.70	19.74	19.53		
10	64QAM	50	0	19.66	19.60	19.53		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.03	22.13	21.97	23.1	0
5	QPSK	1	12	21.97	22.04	21.88		
5	QPSK	1	24	21.97	21.97	21.82		
5	QPSK	12	0	21.75	21.92	21.66	23	0.1
5	QPSK	12	7	21.88	21.70	21.62		
5	QPSK	12	13	21.79	21.67	21.67		
5	QPSK	25	0	21.82	21.80	21.74		
5	16QAM	1	0	21.61	21.61	21.54	23	0.1
5	16QAM	1	12	21.64	21.77	21.68		
5	16QAM	1	24	21.60	21.66	21.65		
5	16QAM	12	0	20.75	20.83	20.69	22	1.1
5	16QAM	12	7	20.72	20.64	20.77		
5	16QAM	12	13	20.85	20.62	20.64		
5	16QAM	25	0	20.64	20.58	20.58		
5	64QAM	1	0	20.63	20.72	20.58	22	1.1
5	64QAM	1	12	20.59	20.66	20.52		
5	64QAM	1	24	20.61	20.58	20.70		
5	64QAM	12	0	19.66	19.72	19.61	21	2.1
5	64QAM	12	7	19.70	19.58	19.75		
5	64QAM	12	13	19.60	19.70	19.50		
5	64QAM	25	0	19.56	19.59	19.56		



Band 17								
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	23.48	23.64	23.48	25	0
10	QPSK	1	25	23.37	23.51	23.34		
10	QPSK	1	49	23.43	23.51	23.41		
10	QPSK	25	0	22.58	22.75	22.52	24	1
10	QPSK	25	12	22.68	22.56	22.59		
10	QPSK	25	25	22.63	22.66	22.51		
10	QPSK	50	0	22.69	22.73	22.52		
10	16QAM	1	0	22.59	22.51	22.47	24	1
10	16QAM	1	25	22.57	22.60	22.63		
10	16QAM	1	49	22.53	22.39	22.57		
10	16QAM	25	0	21.57	21.64	21.55	23	2
10	16QAM	25	12	21.58	21.52	21.52		
10	16QAM	25	25	21.65	21.58	21.53		
10	16QAM	50	0	21.46	21.47	21.45		
10	64QAM	1	0	21.55	21.71	21.53	23	2
10	64QAM	1	25	21.44	21.59	21.41		
10	64QAM	1	49	21.48	21.40	21.54		
10	64QAM	25	0	20.51	20.57	20.56	22	3
10	64QAM	25	12	20.67	20.54	20.56		
10	64QAM	25	25	20.50	20.55	20.36		
10	64QAM	50	0	20.41	20.48	20.33		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.45	23.58	23.42	25	0
5	QPSK	1	12	23.27	23.44	23.16		
5	QPSK	1	24	23.32	23.34	23.26		
5	QPSK	12	0	22.41	22.58	22.48	24	1
5	QPSK	12	7	22.63	22.44	22.50		
5	QPSK	12	13	22.46	22.50	22.39		
5	QPSK	25	0	22.60	22.60	22.44		
5	16QAM	1	0	22.49	22.33	22.45	24	1
5	16QAM	1	12	22.42	22.46	22.49		
5	16QAM	1	24	22.47	22.27	22.43		
5	16QAM	12	0	21.43	21.54	21.51	23	2
5	16QAM	12	7	21.50	21.38	21.50		
5	16QAM	12	13	21.61	21.49	21.49		
5	16QAM	25	0	21.36	21.38	21.36		
5	64QAM	1	0	21.49	21.65	21.51	23	2
5	64QAM	1	12	21.32	21.53	21.31		
5	64QAM	1	24	21.30	21.28	21.47		
5	64QAM	12	0	20.43	20.44	20.47	22	3
5	64QAM	12	7	20.49	20.48	20.40		
5	64QAM	12	13	20.37	20.40	20.31		
5	64QAM	25	0	20.32	20.39	20.25		



Band 66								
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	23.05	23.15	23.06	24.5	0
20	QPSK	1	49	23.07	23.08	22.94		
20	QPSK	1	99	23.01	23.14	22.97		
20	QPSK	50	0	22.64	22.85	22.60	24	0.5
20	QPSK	50	24	22.72	22.66	22.72		
20	QPSK	50	50	22.57	22.71	22.66		
20	QPSK	100	0	22.68	22.76	22.56	24	0.5
20	16QAM	1	0	22.59	22.62	22.54		
20	16QAM	1	49	22.66	22.69	22.62		
20	16QAM	1	99	22.52	22.62	22.58	23	1.5
20	16QAM	50	0	21.69	21.75	21.60		
20	16QAM	50	24	21.60	21.62	21.64		
20	16QAM	50	50	21.71	21.71	21.71	23	1.5
20	16QAM	100	0	21.64	21.54	21.49		
20	64QAM	1	0	21.49	21.75	21.64		
20	64QAM	1	49	21.53	21.65	21.49	23	1.5
20	64QAM	1	99	21.52	21.48	21.53		
20	64QAM	50	0	20.60	20.65	20.58		
20	64QAM	50	24	20.84	20.64	20.69	22	2.5
20	64QAM	50	50	20.45	20.59	20.57		
20	64QAM	100	0	20.57	20.63	20.35		
Channel				132047	132322	132597		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	23.02	23.13	23.06	24.5	0
15	QPSK	1	37	23.02	23.06	22.94		
15	QPSK	1	74	22.97	23.11	22.96		
15	QPSK	36	0	22.59	22.82	22.57	24	0.5
15	QPSK	36	20	22.66	22.61	22.69		
15	QPSK	36	39	22.53	22.67	22.62		
15	QPSK	75	0	22.65	22.74	22.50	24	0.5
15	16QAM	1	0	22.57	22.56	22.54		
15	16QAM	1	37	22.59	22.63	22.58		
15	16QAM	1	74	22.47	22.58	22.54	23	1.5
15	16QAM	36	0	21.63	21.75	21.61		
15	16QAM	36	20	21.54	21.59	21.65		
15	16QAM	36	39	21.68	21.68	21.69	23	1.5
15	16QAM	75	0	21.57	21.55	21.46		
15	64QAM	1	0	21.47	21.68	21.65		
15	64QAM	1	37	21.52	21.64	21.44	23	1.5
15	64QAM	1	74	21.50	21.47	21.48		
15	64QAM	36	0	20.58	20.65	20.56		
15	64QAM	36	20	20.78	20.59	20.65	22	2.5
15	64QAM	36	39	20.43	20.55	20.54		
15	64QAM	75	0	20.52	20.61	20.34		
Channel				132022	132322	132622		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	22.99	23.03	22.99	24.5	0
10	QPSK	1	25	22.96	23.01	22.84		
10	QPSK	1	49	22.91	23.03	22.83		
10	QPSK	25	0	22.55	22.77	22.47	24	0.5
10	QPSK	25	12	22.61	22.58	22.64		



10	QPSK	25	25	22.49	22.62	22.58		
10	QPSK	50	0	22.56	22.70	22.45		
10	16QAM	1	0	22.47	22.48	22.43	24	0.5
10	16QAM	1	25	22.56	22.56	22.49		
10	16QAM	1	49	22.46	22.51	22.48		
10	16QAM	25	0	21.59	21.63	21.47	23	1.5
10	16QAM	25	12	21.51	21.55	21.54		
10	16QAM	25	25	21.58	21.62	21.64		
10	16QAM	50	0	21.53	21.46	21.36	23	1.5
10	64QAM	1	0	21.39	21.67	21.56		
10	64QAM	1	25	21.40	21.59	21.41		
10	64QAM	1	49	21.44	21.39	21.42	22	2.5
10	64QAM	25	0	20.47	20.52	20.51		
10	64QAM	25	12	20.74	20.51	20.58		
10	64QAM	25	25	20.38	20.50	20.51	22	2.5
10	64QAM	50	0	20.45	20.57	20.24		
Channel				131997	132322	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	23.02	23.08	22.97	24.5	0
5	QPSK	1	12	23.01	23.03	22.88		
5	QPSK	1	24	22.93	23.07	22.90		
5	QPSK	12	0	22.55	22.79	22.57	24	0.5
5	QPSK	12	7	22.69	22.60	22.63		
5	QPSK	12	13	22.50	22.64	22.64		
5	QPSK	25	0	22.65	22.70	22.54	24	0.5
5	16QAM	1	0	22.56	22.58	22.51		
5	16QAM	1	12	22.56	22.63	22.53		
5	16QAM	1	24	22.47	22.57	22.51	23	1.5
5	16QAM	12	0	21.59	21.68	21.53		
5	16QAM	12	7	21.55	21.57	21.62		
5	16QAM	12	13	21.68	21.67	21.67	23	1.5
5	16QAM	25	0	21.54	21.52	21.43		
5	64QAM	1	0	21.45	21.70	21.59		
5	64QAM	1	12	21.49	21.59	21.42	23	1.5
5	64QAM	1	24	21.45	21.44	21.46		
5	64QAM	12	0	20.57	20.58	20.53		
5	64QAM	12	7	20.78	20.59	20.66	22	2.5
5	64QAM	12	13	20.40	20.55	20.54		
5	64QAM	25	0	20.47	20.56	20.30		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	22.93	23.06	23.01	24.5	0
3	QPSK	1	8	23.02	22.99	22.90		
3	QPSK	1	14	22.91	23.08	22.87		
3	QPSK	8	0	22.59	22.77	22.54	24	0.5
3	QPSK	8	4	22.64	22.57	22.67		
3	QPSK	8	7	22.47	22.65	22.57		
3	QPSK	15	0	22.56	22.70	22.47	24	0.5
3	16QAM	1	0	22.53	22.55	22.45		
3	16QAM	1	8	22.61	22.62	22.51		
3	16QAM	1	14	22.47	22.52	22.46	23	1.5
3	16QAM	8	0	21.60	21.69	21.49		
3	16QAM	8	4	21.49	21.57	21.55		
3	16QAM	8	7	21.66	21.66	21.62	23	1.5
3	16QAM	15	0	21.53	21.46	21.38		
3	64QAM	1	0	21.42	21.70	21.57		



3	64QAM	1	8	21.44	21.60	21.38		
3	64QAM	1	14	21.48	21.40	21.43		
3	64QAM	8	0	20.55	20.59	20.47	22	2.5
3	64QAM	8	4	20.77	20.55	20.64		
3	64QAM	8	7	20.36	20.48	20.52		
3	64QAM	15	0	20.51	20.53	20.27		
Channel				131979	132322	132665		
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	23.00	23.11	23.03	24.5	0
1.4	QPSK	1	3	23.03	23.06	22.94		
1.4	QPSK	1	5	23.00	23.12	23.00		
1.4	QPSK	3	0	22.61	22.86	22.57		
1.4	QPSK	3	1	22.69	22.67	22.72		
1.4	QPSK	3	3	22.58	22.67	22.62		
1.4	QPSK	6	0	22.64	22.74	22.55	24	0.5
1.4	16QAM	1	0	22.61	22.63	22.51	24	0.5
1.4	16QAM	1	3	22.67	22.66	22.59		
1.4	16QAM	1	5	22.52	22.61	22.58		
1.4	16QAM	3	0	22.59	22.65	22.47		
1.4	16QAM	3	1	22.69	22.62	22.58		
1.4	16QAM	3	3	22.51	22.59	22.56		
1.4	16QAM	6	0	21.63	21.53	21.46	23	1.5
1.4	64QAM	1	0	21.45	21.74	21.60	23	1.5
1.4	64QAM	1	3	21.50	21.61	21.49		
1.4	64QAM	1	5	21.49	21.50	21.54		
1.4	64QAM	3	0	21.46	21.73	21.57		
1.4	64QAM	3	1	21.47	21.56	21.47		
1.4	64QAM	3	3	21.44	21.47	21.53		
1.4	64QAM	6	0	20.56	20.65	20.37		



Ant2

Band 2 ENDC								
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	23.53	23.66	23.61	25	0
20	QPSK	1	49	23.49	23.51	23.43		
20	QPSK	1	99	23.53	23.56	23.40		
20	QPSK	50	0	22.62	22.71	22.61	24	1
20	QPSK	50	24	22.53	22.65	22.60		
20	QPSK	50	50	22.61	22.63	22.54		
20	QPSK	100	0	22.55	22.68	22.59		
20	16QAM	1	0	22.39	22.57	22.49	24	1
20	16QAM	1	49	22.32	22.48	22.38		
20	16QAM	1	99	22.51	22.59	22.49		
20	16QAM	50	0	21.51	21.64	21.62	23	2
20	16QAM	50	24	21.65	21.71	21.56		
20	16QAM	50	50	21.45	21.61	21.48		
20	16QAM	100	0	21.60	21.70	21.58		
20	64QAM	1	0	21.51	21.56	21.38	23	2
20	64QAM	1	49	21.46	21.50	21.36		
20	64QAM	1	99	21.36	21.53	21.44		
20	64QAM	50	0	20.56	20.70	20.54	22	3
20	64QAM	50	24	20.54	20.67	20.60		
20	64QAM	50	50	20.61	20.63	20.45		
20	64QAM	100	0	20.59	20.69	20.67		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	23.35	23.59	23.47	25	0
15	QPSK	1	37	23.34	23.39	23.26		
15	QPSK	1	74	23.47	23.43	23.30		
15	QPSK	36	0	22.59	22.65	22.57	24	1
15	QPSK	36	20	22.35	22.49	22.49		
15	QPSK	36	39	22.50	22.52	22.38		
15	QPSK	75	0	22.48	22.60	22.47		
15	16QAM	1	0	22.37	22.45	22.39	24	1
15	16QAM	1	37	22.21	22.33	22.31		
15	16QAM	1	74	22.43	22.46	22.37		
15	16QAM	36	0	21.48	21.57	21.58	23	2
15	16QAM	36	20	21.56	21.66	21.42		
15	16QAM	36	39	21.43	21.44	21.37		
15	16QAM	75	0	21.57	21.56	21.52		
15	64QAM	1	0	21.36	21.47	21.25	23	2
15	64QAM	1	37	21.37	21.43	21.24		
15	64QAM	1	74	21.34	21.47	21.33		
15	64QAM	36	0	20.50	20.65	20.49	22	3
15	64QAM	36	20	20.48	20.51	20.51		
15	64QAM	36	39	20.56	20.54	20.33		
15	64QAM	75	0	20.44	20.61	20.53		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	23.47	23.49	23.51	25	0
10	QPSK	1	25	23.39	23.39	23.33		
10	QPSK	1	49	23.39	23.46	23.29		
10	QPSK	25	0	22.49	22.54	22.57	24	1



10	QPSK	25	12	22.37	22.53	22.48		
10	QPSK	25	25	22.43	22.55	22.47		
10	QPSK	50	0	22.46	22.56	22.51		
10	16QAM	1	0	22.31	22.42	22.46	24	1
10	16QAM	1	25	22.28	22.45	22.33		
10	16QAM	1	49	22.44	22.49	22.36		
10	16QAM	25	0	21.34	21.59	21.47	23	2
10	16QAM	25	12	21.50	21.68	21.40		
10	16QAM	25	25	21.40	21.46	21.31		
10	16QAM	50	0	21.47	21.67	21.43		
10	64QAM	1	0	21.33	21.40	21.27	23	2
10	64QAM	1	25	21.37	21.41	21.21		
10	64QAM	1	49	21.34	21.43	21.34		
10	64QAM	25	0	20.43	20.61	20.47	22	3
10	64QAM	25	12	20.43	20.64	20.54		
10	64QAM	25	25	20.58	20.49	20.29		
10	64QAM	50	0	20.42	20.58	20.55		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	23.41	23.52	23.52	25	0
5	QPSK	1	12	23.47	23.35	23.36		
5	QPSK	1	24	23.40	23.44	23.37		
5	QPSK	12	0	22.56	22.55	22.54	24	1
5	QPSK	12	7	22.51	22.50	22.53		
5	QPSK	12	13	22.52	22.57	22.43		
5	QPSK	25	0	22.43	22.64	22.48		
5	16QAM	1	0	22.33	22.54	22.32	24	1
5	16QAM	1	12	22.26	22.37	22.35		
5	16QAM	1	24	22.48	22.49	22.34		
5	16QAM	12	0	21.43	21.46	21.51	23	2
5	16QAM	12	7	21.53	21.58	21.38		
5	16QAM	12	13	21.40	21.50	21.31		
5	16QAM	25	0	21.45	21.59	21.41		
5	64QAM	1	0	21.37	21.54	21.32	23	2
5	64QAM	1	12	21.44	21.47	21.25		
5	64QAM	1	24	21.23	21.44	21.27		
5	64QAM	12	0	20.40	20.65	20.41	22	3
5	64QAM	12	7	20.37	20.57	20.46		
5	64QAM	12	13	20.53	20.56	20.42		
5	64QAM	25	0	20.45	20.63	20.57		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	23.36	23.57	23.46	25	0
3	QPSK	1	8	23.46	23.33	23.39		
3	QPSK	1	14	23.47	23.44	23.23		
3	QPSK	8	0	22.48	22.56	22.49	24	1
3	QPSK	8	4	22.48	22.62	22.51		
3	QPSK	8	7	22.57	22.50	22.37		
3	QPSK	15	0	22.39	22.64	22.51		
3	16QAM	1	0	22.35	22.42	22.36	24	1
3	16QAM	1	8	22.20	22.41	22.32		
3	16QAM	1	14	22.42	22.45	22.44		
3	16QAM	8	0	21.47	21.47	21.59	23	2
3	16QAM	8	4	21.60	21.60	21.47		
3	16QAM	8	7	21.35	21.46	21.39		
3	16QAM	15	0	21.55	21.55	21.48		



3	64QAM	1	0	21.48	21.40	21.22	23	2
3	64QAM	1	8	21.30	21.34	21.26		
3	64QAM	1	14	21.22	21.35	21.31		
3	64QAM	8	0	20.40	20.53	20.44	22	3
3	64QAM	8	4	20.42	20.64	20.54		
3	64QAM	8	7	20.58	20.55	20.28		
3	64QAM	15	0	20.41	20.57	20.64		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	23.37	23.62	23.58	25	0
1.4	QPSK	1	3	23.40	23.54	23.32		
1.4	QPSK	1	5	23.36	23.45	23.38		
1.4	QPSK	3	0	23.39	23.59	23.54		
1.4	QPSK	3	1	23.33	23.39	23.38		
1.4	QPSK	3	3	23.41	23.47	23.34		
1.4	QPSK	6	0	22.51	22.67	22.48	24	1
1.4	16QAM	1	0	22.37	22.55	22.52	24	1
1.4	16QAM	1	3	22.48	22.58	22.48		
1.4	16QAM	1	5	22.50	22.51	22.48		
1.4	16QAM	3	0	22.21	22.47	22.34		
1.4	16QAM	3	1	22.20	22.38	22.27		
1.4	16QAM	3	3	22.41	22.54	22.34		
1.4	16QAM	6	0	21.47	21.60	21.55	23	2
1.4	64QAM	1	0	21.57	21.63	21.47	23	2
1.4	64QAM	1	3	21.38	21.43	21.45		
1.4	64QAM	1	5	21.58	21.60	21.40		
1.4	64QAM	3	0	21.38	21.51	21.35		
1.4	64QAM	3	1	21.35	21.48	21.19		
1.4	64QAM	3	3	21.30	21.37	21.34		
1.4	64QAM	6	0	20.52	20.58	20.33		



Band 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				20450	20525	20600	25	0		
Frequency (MHz)				829	836.5	844				
10	QPSK	1	0	24.25	24.30	24.12				
10	QPSK	1	25	24.00	24.04	24.04	24	1		
10	QPSK	1	49	23.89	24.05	23.94				
10	QPSK	25	0	23.25	23.45	23.34				
10	QPSK	25	12	23.24	23.29	23.21	24	1		
10	QPSK	25	25	23.31	23.35	23.15				
10	QPSK	50	0	23.35	23.43	23.30				
10	16QAM	1	0	23.35	23.30	23.26	24	1		
10	16QAM	1	25	23.40	23.44	23.34				
10	16QAM	1	49	23.39	23.35	23.37				
10	16QAM	25	0	22.15	22.33	22.23	23	2		
10	16QAM	25	12	22.31	22.30	22.31				
10	16QAM	25	25	22.22	22.33	22.25				
10	16QAM	50	0	22.22	22.40	22.43	23	2		
10	64QAM	1	0	22.12	22.28	22.04				
10	64QAM	1	25	22.06	22.07	21.98				
10	64QAM	1	49	22.00	22.20	22.07	22	3		
10	64QAM	25	0	21.11	21.25	21.12				
10	64QAM	25	12	21.29	21.34	21.23				
10	64QAM	25	25	21.38	21.37	21.25	22	3		
10	64QAM	50	0	21.24	21.38	21.24				
Channel				20425	20525	20625			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	25	0		
5	QPSK	1	0	24.20	24.27	24.10				
5	QPSK	1	12	24.01	24.11	24.07				
5	QPSK	1	24	23.94	24.02	23.90	24	1		
5	QPSK	12	0	23.25	23.46	23.31				
5	QPSK	12	7	23.21	23.33	23.15				
5	QPSK	12	13	23.23	23.44	23.17	24	1		
5	QPSK	25	0	23.33	23.43	23.33				
5	16QAM	1	0	23.38	23.31	23.27				
5	16QAM	1	12	23.34	23.46	23.38	24	1		
5	16QAM	1	24	23.42	23.33	23.35				
5	16QAM	12	0	22.14	22.30	22.24				
5	16QAM	12	7	22.29	22.29	22.32	23	2		
5	16QAM	12	13	22.28	22.29	22.25				
5	16QAM	25	0	22.20	22.34	22.41				
5	64QAM	1	0	22.13	22.30	22.02	23	2		
5	64QAM	1	12	22.05	22.01	21.98				
5	64QAM	1	24	21.94	22.18	22.06				
5	64QAM	12	0	21.15	21.24	21.16	22	3		
5	64QAM	12	7	21.32	21.35	21.24				
5	64QAM	12	13	21.41	21.36	21.26				
5	64QAM	25	0	21.29	21.42	21.27	24	1		
Channel				20415	20525	20635			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	24.24	24.26	24.10	25	0		
3	QPSK	1	8	23.99	24.09	24.01				
3	QPSK	1	14	23.92	24.05	23.94				
3	QPSK	8	0	23.23	23.40	23.34	24	1		



3	QPSK	8	4	23.19	23.35	23.20		
3	QPSK	8	7	23.23	23.43	23.16		
3	QPSK	15	0	23.40	23.45	23.32		
3	16QAM	1	0	23.34	23.33	23.22	24	1
3	16QAM	1	8	23.38	23.45	23.40		
3	16QAM	1	14	23.37	23.33	23.39		
3	16QAM	8	0	22.20	22.30	22.21	23	2
3	16QAM	8	4	22.24	22.31	22.32		
3	16QAM	8	7	22.25	22.29	22.19		
3	16QAM	15	0	22.19	22.39	22.39		
3	64QAM	1	0	22.11	22.28	21.99	23	2
3	64QAM	1	8	22.03	22.03	22.02		
3	64QAM	1	14	21.98	22.18	22.09		
3	64QAM	8	0	21.13	21.27	21.14	22	3
3	64QAM	8	4	21.34	21.39	21.17		
3	64QAM	8	7	21.39	21.38	21.25		
3	64QAM	15	0	21.23	21.44	21.23		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	24.19	24.23	24.15	25	0
1.4	QPSK	1	3	24.05	24.05	24.04		
1.4	QPSK	1	5	23.89	24.02	23.92		
1.4	QPSK	3	0	23.19	23.46	23.38		
1.4	QPSK	3	1	23.23	23.35	23.20		
1.4	QPSK	3	3	23.25	23.43	23.12		
1.4	QPSK	6	0	23.32	23.48	23.26	24	1
1.4	16QAM	1	0	23.38	23.32	23.23	24	1
1.4	16QAM	1	3	23.39	23.43	23.36		
1.4	16QAM	1	5	23.37	23.35	23.35		
1.4	16QAM	3	0	22.19	22.34	22.24		
1.4	16QAM	3	1	22.30	22.25	22.36		
1.4	16QAM	3	3	22.28	22.32	22.25		
1.4	16QAM	6	0	22.19	22.35	22.41	23	2
1.4	64QAM	1	0	22.09	22.32	21.98	23	2
1.4	64QAM	1	3	22.02	22.04	21.99		
1.4	64QAM	1	5	21.96	22.15	22.08		
1.4	64QAM	3	0	21.11	21.21	21.15		
1.4	64QAM	3	1	21.28	21.35	21.23		
1.4	64QAM	3	3	21.36	21.37	21.31		
1.4	64QAM	6	0	21.26	21.40	21.27	22	3



Band 7 ENDC								
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	23.3	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.47	22.54	22.53		
20	QPSK	1	49	22.39	22.42	22.38	23	0.3
20	QPSK	1	99	22.42	22.52	22.32		
20	QPSK	50	0	21.48	21.59	21.44		
20	QPSK	50	24	21.44	21.58	21.50	23	0.3
20	QPSK	50	50	21.49	21.55	21.38		
20	QPSK	100	0	21.51	21.52	21.51		
20	16QAM	1	0	21.28	21.45	21.39	23	0.3
20	16QAM	1	49	21.28	21.43	21.27		
20	16QAM	1	99	21.34	21.44	21.37		
20	16QAM	50	0	20.42	20.54	20.57	22	1.3
20	16QAM	50	24	20.57	20.53	20.50		
20	16QAM	50	50	20.27	20.45	20.32		
20	16QAM	100	0	20.52	20.53	20.41	22	1.3
20	64QAM	1	0	20.46	20.48	20.28		
20	64QAM	1	49	20.35	20.42	20.34		
20	64QAM	1	99	20.29	20.39	20.35	21	2.3
20	64QAM	50	0	19.44	19.56	19.50		
20	64QAM	50	24	19.37	19.53	19.46		
20	64QAM	50	50	19.54	19.55	19.30	21	2.3
20	64QAM	100	0	19.53	19.53	19.49		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.42	22.48	22.50		
15	QPSK	1	37	22.25	22.27	22.29	23	0.3
15	QPSK	1	74	22.25	22.42	22.15		
15	QPSK	36	0	21.34	21.42	21.31		
15	QPSK	36	20	21.40	21.55	21.46	23	0.3
15	QPSK	36	39	21.43	21.45	21.21		
15	QPSK	75	0	21.41	21.36	21.36		
15	16QAM	1	0	21.22	21.42	21.32	23	0.3
15	16QAM	1	37	21.24	21.36	21.22		
15	16QAM	1	74	21.23	21.34	21.25		
15	16QAM	36	0	20.36	20.41	20.41	22	1.3
15	16QAM	36	20	20.52	20.49	20.43		
15	16QAM	36	39	20.25	20.30	20.16		
15	16QAM	75	0	20.37	20.42	20.31	22	1.3
15	64QAM	1	0	20.41	20.34	20.14		
15	64QAM	1	37	20.29	20.32	20.21		
15	64QAM	1	74	20.12	20.26	20.26	21	2.3
15	64QAM	36	0	19.34	19.45	19.37		
15	64QAM	36	20	19.26	19.39	19.38		
15	64QAM	36	39	19.37	19.42	19.15	21	2.3
15	64QAM	75	0	19.49	19.43	19.32		
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.45	22.41	22.51		
10	QPSK	1	25	22.24	22.36	22.26	23	0.3
10	QPSK	1	49	22.30	22.39	22.18		
10	QPSK	25	0	21.44	21.50	21.36		
10	QPSK	25	12	21.28	21.44	21.41	23	0.3



10	QPSK	25	25	21.34	21.50	21.27		
10	QPSK	50	0	21.40	21.41	21.34		
10	16QAM	1	0	21.21	21.41	21.26	23	0.3
10	16QAM	1	25	21.21	21.39	21.10		
10	16QAM	1	49	21.17	21.33	21.30		
10	16QAM	25	0	20.30	20.49	20.42	22	1.3
10	16QAM	25	12	20.53	20.36	20.41		
10	16QAM	25	25	20.24	20.28	20.19		
10	16QAM	50	0	20.42	20.36	20.30	22	1.3
10	64QAM	1	0	20.43	20.31	20.13		
10	64QAM	1	25	20.20	20.38	20.16		
10	64QAM	1	49	20.23	20.28	20.22	21	2.3
10	64QAM	25	0	19.36	19.43	19.35		
10	64QAM	25	12	19.28	19.49	19.37		
10	64QAM	25	25	19.43	19.47	19.13	21	2.3
10	64QAM	50	0	19.41	19.41	19.31		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.43	22.50	22.47	23.3	0
5	QPSK	1	12	22.31	22.30	22.26		
5	QPSK	1	24	22.35	22.40	22.16		
5	QPSK	12	0	21.35	21.55	21.33	23	0.3
5	QPSK	12	7	21.26	21.50	21.47		
5	QPSK	12	13	21.36	21.52	21.22		
5	QPSK	25	0	21.43	21.35	21.44	23	0.3
5	16QAM	1	0	21.16	21.35	21.35		
5	16QAM	1	12	21.15	21.33	21.18		
5	16QAM	1	24	21.23	21.26	21.35	22	1.3
5	16QAM	12	0	20.39	20.48	20.46		
5	16QAM	12	7	20.47	20.46	20.46		
5	16QAM	12	13	20.18	20.37	20.21	22	1.3
5	16QAM	25	0	20.49	20.35	20.23		
5	64QAM	1	0	20.35	20.40	20.26		
5	64QAM	1	12	20.18	20.40	20.26	22	1.3
5	64QAM	1	24	20.21	20.33	20.33		
5	64QAM	12	0	19.39	19.43	19.33		
5	64QAM	12	7	19.34	19.37	19.30	21	2.3
5	64QAM	12	13	19.45	19.40	19.25		
5	64QAM	25	0	19.42	19.38	19.43		



Reduced Power Mode for DSI 3

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Band 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				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	13.80	13.89	13.86	15	0
20	QPSK	1	49	13.69	13.82	13.74		
20	QPSK	1	99	13.62	13.74	13.64		
20	QPSK	50	0	13.73	13.84	13.70	15	0
20	QPSK	50	24	13.76	13.81	13.73		
20	QPSK	50	50	13.61	13.74	13.60		
20	QPSK	100	0	13.78	13.82	13.68		
20	16QAM	1	0	13.59	13.71	13.62	15	0
20	16QAM	1	49	13.71	13.76	13.66		
20	16QAM	1	99	13.67	13.81	13.66		
20	16QAM	50	0	13.66	13.74	13.65	15	0
20	16QAM	50	24	13.66	13.73	13.63		
20	16QAM	50	50	13.66	13.76	13.62		
20	16QAM	100	0	13.72	13.78	13.73		
20	64QAM	1	0	13.67	13.76	13.70	15	0
20	64QAM	1	49	13.56	13.70	13.57		
20	64QAM	1	99	13.64	13.77	13.65		
20	64QAM	50	0	13.71	13.81	13.77	15	0
20	64QAM	50	24	13.61	13.71	13.67		
20	64QAM	50	50	13.68	13.75	13.63		
20	64QAM	100	0	13.67	13.80	13.75		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	13.69	13.81	13.72	15	0
15	QPSK	1	37	13.60	13.71	13.62		
15	QPSK	1	74	13.50	13.68	13.61		
15	QPSK	36	0	13.63	13.74	13.58	15	0
15	QPSK	36	20	13.69	13.72	13.68		
15	QPSK	36	39	13.53	13.71	13.51		
15	QPSK	75	0	13.73	13.72	13.57		
15	16QAM	1	0	13.51	13.56	13.50	15	0
15	16QAM	1	37	13.60	13.67	13.60		
15	16QAM	1	74	13.57	13.67	13.53		
15	16QAM	36	0	13.57	13.60	13.55	15	0
15	16QAM	36	20	13.59	13.61	13.59		
15	16QAM	36	39	13.52	13.65	13.54		
15	16QAM	75	0	13.67	13.64	13.61		
15	64QAM	1	0	13.61	13.65	13.60	15	0
15	64QAM	1	37	13.43	13.59	13.47		
15	64QAM	1	74	13.57	13.65	13.55		
15	64QAM	36	0	13.66	13.68	13.68	15	0
15	64QAM	36	20	13.47	13.62	13.58		
15	64QAM	36	39	13.60	13.65	13.49		
15	64QAM	75	0	13.57	13.67	13.61		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	13.70	13.74	13.69	15	0
10	QPSK	1	25	13.62	13.74	13.67		



10	QPSK	1	49	13.56	13.69	13.50		
10	QPSK	25	0	13.62	13.78	13.65	15	0
10	QPSK	25	12	13.66	13.77	13.70		
10	QPSK	25	25	13.51	13.63	13.46		
10	QPSK	50	0	13.73	13.71	13.55		
10	16QAM	1	0	13.56	13.63	13.58	15	0
10	16QAM	1	25	13.59	13.68	13.60		
10	16QAM	1	49	13.58	13.74	13.58		
10	16QAM	25	0	13.58	13.66	13.53	15	0
10	16QAM	25	12	13.53	13.69	13.57		
10	16QAM	25	25	13.56	13.64	13.56		
10	16QAM	50	0	13.63	13.65	13.62		
10	64QAM	1	0	13.53	13.61	13.60	15	0
10	64QAM	1	25	13.50	13.59	13.53		
10	64QAM	1	49	13.50	13.66	13.61		
10	64QAM	25	0	13.66	13.76	13.72	15	0
10	64QAM	25	12	13.55	13.63	13.56		
10	64QAM	25	25	13.61	13.64	13.59		
10	64QAM	50	0	13.54	13.67	13.69		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	13.70	13.74	13.69	15	0
5	QPSK	1	12	13.61	13.69	13.68		
5	QPSK	1	24	13.51	13.62	13.51		
5	QPSK	12	0	13.69	13.78	13.60	15	0
5	QPSK	12	7	13.66	13.68	13.62		
5	QPSK	12	13	13.52	13.65	13.52		
5	QPSK	25	0	13.73	13.75	13.60		
5	16QAM	1	0	13.48	13.61	13.49	15	0
5	16QAM	1	12	13.68	13.70	13.53		
5	16QAM	1	24	13.57	13.74	13.59		
5	16QAM	12	0	13.59	13.67	13.57	15	0
5	16QAM	12	7	13.53	13.59	13.55		
5	16QAM	12	13	13.58	13.64	13.54		
5	16QAM	25	0	13.58	13.68	13.64		
5	64QAM	1	0	13.55	13.63	13.62	15	0
5	64QAM	1	12	13.44	13.67	13.43		
5	64QAM	1	24	13.53	13.67	13.50		
5	64QAM	12	0	13.63	13.74	13.70	15	0
5	64QAM	12	7	13.53	13.59	13.53		
5	64QAM	12	13	13.55	13.70	13.57		
5	64QAM	25	0	13.55	13.65	13.63		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	13.71	13.79	13.70	15	0
3	QPSK	1	8	13.57	13.75	13.68		
3	QPSK	1	14	13.59	13.66	13.54		
3	QPSK	8	0	13.60	13.79	13.60	15	0
3	QPSK	8	4	13.64	13.78	13.59		
3	QPSK	8	7	13.51	13.70	13.56		
3	QPSK	15	0	13.74	13.75	13.58	15	0
3	16QAM	1	0	13.53	13.63	13.53		
3	16QAM	1	8	13.67	13.63	13.53		
3	16QAM	1	14	13.56	13.68	13.54	15	0
3	16QAM	8	0	13.60	13.66	13.62		
3	16QAM	8	4	13.59	13.61	13.52		



3	16QAM	8	7	13.60	13.71	13.50		
3	16QAM	15	0	13.68	13.65	13.64		
3	64QAM	1	0	13.53	13.68	13.61	15	0
3	64QAM	1	8	13.48	13.62	13.45		
3	64QAM	1	14	13.59	13.71	13.58		
3	64QAM	8	0	13.64	13.76	13.71	15	0
3	64QAM	8	4	13.56	13.67	13.56		
3	64QAM	8	7	13.54	13.64	13.50		
3	64QAM	15	0	13.62	13.70	13.72		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	13.69	13.81	13.79	15	0
1.4	QPSK	1	3	13.63	13.78	13.66		
1.4	QPSK	1	5	13.47	13.68	13.54		
1.4	QPSK	3	0	13.62	13.74	13.56		
1.4	QPSK	3	1	13.71	13.75	13.60		
1.4	QPSK	3	3	13.57	13.63	13.54		
1.4	QPSK	6	0	13.75	13.73	13.65	15	0
1.4	16QAM	1	0	13.51	13.60	13.57	15	0
1.4	16QAM	1	3	13.68	13.61	13.53		
1.4	16QAM	1	5	13.61	13.71	13.51		
1.4	16QAM	3	0	13.59	13.63	13.62		
1.4	16QAM	3	1	13.51	13.63	13.49		
1.4	16QAM	3	3	13.61	13.64	13.54		
1.4	16QAM	6	0	13.60	13.69	13.64	15	0
1.4	64QAM	1	0	13.55	13.71	13.56	15	0
1.4	64QAM	1	3	13.42	13.58	13.47		
1.4	64QAM	1	5	13.52	13.67	13.55		
1.4	64QAM	3	0	13.65	13.67	13.63		
1.4	64QAM	3	1	13.58	13.58	13.57		
1.4	64QAM	3	3	13.58	13.62	13.49		
1.4	64QAM	6	0	13.54	13.69	13.62	15	0



Band 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				20050	20175	20300	16.4	0
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	15.60	15.70	15.64		
20	QPSK	1	49	15.59	15.59	15.46	16.4	0
20	QPSK	1	99	15.60	15.67	15.64		
20	QPSK	50	0	15.55	15.68	15.62		
20	QPSK	50	24	15.53	15.58	15.58	16.4	0
20	QPSK	50	50	15.36	15.52	15.42		
20	QPSK	100	0	15.56	15.66	15.54		
20	16QAM	1	0	15.51	15.58	15.49	16.4	0
20	16QAM	1	49	15.54	15.57	15.57		
20	16QAM	1	99	15.40	15.58	15.44		
20	16QAM	50	0	15.56	15.64	15.46	16.4	0
20	16QAM	50	24	15.45	15.58	15.53		
20	16QAM	50	50	15.52	15.62	15.46		
20	16QAM	100	0	15.45	15.60	15.56	16.4	0
20	64QAM	1	0	15.42	15.59	15.48		
20	64QAM	1	49	15.56	15.60	15.44		
20	64QAM	1	99	15.58	15.52	15.49	16.4	0
20	64QAM	50	0	15.61	15.65	15.60		
20	64QAM	50	24	15.51	15.56	15.36		
20	64QAM	50	50	15.49	15.57	15.57	16.4	0
20	64QAM	100	0	15.56	15.52	15.58		
Channel				20025	20175	20325		
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	15.48	15.63	15.55		
15	QPSK	1	37	15.48	15.51	15.34	16.4	0
15	QPSK	1	74	15.48	15.59	15.56		
15	QPSK	36	0	15.45	15.56	15.51		
15	QPSK	36	20	15.42	15.50	15.45	16.4	0
15	QPSK	36	39	15.26	15.42	15.32		
15	QPSK	75	0	15.48	15.61	15.45		
15	16QAM	1	0	15.44	15.51	15.38	16.4	0
15	16QAM	1	37	15.42	15.46	15.50		
15	16QAM	1	74	15.29	15.47	15.38		
15	16QAM	36	0	15.45	15.55	15.34	16.4	0
15	16QAM	36	20	15.40	15.50	15.40		
15	16QAM	36	39	15.44	15.52	15.34		
15	16QAM	75	0	15.33	15.49	15.48	16.4	0
15	64QAM	1	0	15.33	15.48	15.37		
15	64QAM	1	37	15.49	15.49	15.35		
15	64QAM	1	74	15.46	15.45	15.36	16.4	0
15	64QAM	36	0	15.50	15.59	15.48		
15	64QAM	36	20	15.41	15.48	15.26		
15	64QAM	36	39	15.37	15.44	15.46	16.4	0
15	64QAM	75	0	15.47	15.41	15.49		
Channel				20000	20175	20350		
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	15.49	15.56	15.51		
10	QPSK	1	25	15.48	15.51	15.30	16.4	0
10	QPSK	1	49	15.45	15.53	15.50		
10	QPSK	25	0	15.46	15.53	15.48		
10	QPSK	25	12	15.38	15.42	15.43	16.4	0



10	QPSK	25	25	15.21	15.38	15.30		
10	QPSK	50	0	15.44	15.54	15.39		
10	16QAM	1	0	15.40	15.44	15.41	16.4	0
10	16QAM	1	25	15.44	15.48	15.48		
10	16QAM	1	49	15.32	15.45	15.34		
10	16QAM	25	0	15.44	15.52	15.32	16.4	0
10	16QAM	25	12	15.31	15.50	15.42		
10	16QAM	25	25	15.38	15.52	15.31		
10	16QAM	50	0	15.34	15.44	15.40	16.4	0
10	64QAM	1	0	15.29	15.48	15.35		
10	64QAM	1	25	15.45	15.50	15.31		
10	64QAM	1	49	15.47	15.37	15.34	16.4	0
10	64QAM	25	0	15.45	15.54	15.46		
10	64QAM	25	12	15.35	15.44	15.23		
10	64QAM	25	25	15.40	15.44	15.46	16.4	0
10	64QAM	50	0	15.47	15.36	15.48		
Channel				19975	20175	20375		
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	15.51	15.58	15.56	16.4	0
5	QPSK	1	12	15.52	15.53	15.38		
5	QPSK	1	24	15.48	15.57	15.51		
5	QPSK	12	0	15.45	15.57	15.56	16.4	0
5	QPSK	12	7	15.44	15.53	15.52		
5	QPSK	12	13	15.29	15.42	15.35		
5	QPSK	25	0	15.46	15.57	15.41	16.4	0
5	16QAM	1	0	15.43	15.48	15.42		
5	16QAM	1	12	15.45	15.47	15.48		
5	16QAM	1	24	15.27	15.53	15.37	16.4	0
5	16QAM	12	0	15.44	15.52	15.40		
5	16QAM	12	7	15.37	15.50	15.42		
5	16QAM	12	13	15.45	15.50	15.38	16.4	0
5	16QAM	25	0	15.33	15.51	15.47		
5	64QAM	1	0	15.32	15.48	15.37		
5	64QAM	1	12	15.45	15.49	15.36	16.4	0
5	64QAM	1	24	15.49	15.41	15.41		
5	64QAM	12	0	15.48	15.59	15.51		
5	64QAM	12	7	15.38	15.43	15.27	16.4	0
5	64QAM	12	13	15.44	15.48	15.45		
5	64QAM	25	0	15.49	15.47	15.52		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	15.54	15.62	15.57	16.4	0
3	QPSK	1	8	15.57	15.50	15.41		
3	QPSK	1	14	15.59	15.61	15.62		
3	QPSK	8	0	15.47	15.62	15.60	16.4	0
3	QPSK	8	4	15.45	15.56	15.49		
3	QPSK	8	7	15.34	15.46	15.40		
3	QPSK	15	0	15.52	15.64	15.46	16.4	0
3	16QAM	1	0	15.43	15.52	15.47		
3	16QAM	1	8	15.52	15.52	15.48		
3	16QAM	1	14	15.32	15.49	15.36	16.4	0
3	16QAM	8	0	15.50	15.63	15.45		
3	16QAM	8	4	15.37	15.51	15.45		
3	16QAM	8	7	15.49	15.60	15.38	16.4	0
3	16QAM	15	0	15.38	15.54	15.51		
3	64QAM	1	0	15.39	15.55	15.43		



3	64QAM	1	8	15.52	15.57	15.35	16.4	0
3	64QAM	1	14	15.52	15.44	15.46		
3	64QAM	8	0	15.59	15.62	15.56		
3	64QAM	8	4	15.45	15.52	15.31		
3	64QAM	8	7	15.42	15.49	15.54		
3	64QAM	15	0	15.54	15.51	15.57		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	15.51	15.64	15.58	16.4	0
1.4	QPSK	1	3	15.46	15.53	15.35		
1.4	QPSK	1	5	15.52	15.55	15.56		
1.4	QPSK	3	0	15.45	15.57	15.57		
1.4	QPSK	3	1	15.43	15.48	15.49		
1.4	QPSK	3	3	15.24	15.40	15.35		
1.4	QPSK	6	0	15.45	15.60	15.43	16.4	0
1.4	16QAM	1	0	15.42	15.50	15.40	16.4	0
1.4	16QAM	1	3	15.44	15.46	15.50		
1.4	16QAM	1	5	15.28	15.53	15.34		
1.4	16QAM	3	0	15.44	15.58	15.36		
1.4	16QAM	3	1	15.38	15.51	15.46		
1.4	16QAM	3	3	15.40	15.51	15.35		
1.4	16QAM	6	0	15.35	15.54	15.44	16.4	0
1.4	64QAM	1	0	15.30	15.48	15.36	16.4	0
1.4	64QAM	1	3	15.46	15.53	15.32		
1.4	64QAM	1	5	15.49	15.44	15.42		
1.4	64QAM	3	0	15.55	15.52	15.51		
1.4	64QAM	3	1	15.39	15.50	15.25		
1.4	64QAM	3	3	15.42	15.45	15.44		
1.4	64QAM	6	0	15.45	15.42	15.48	16.4	0



Band 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				20450	20525	20600	19.9	0		
Frequency (MHz)				829	836.5	844				
10	QPSK	1	0	19.21	19.36	19.32				
10	QPSK	1	25	19.19	19.27	19.10	19.9	0		
10	QPSK	1	49	19.16	19.25	19.18				
10	QPSK	25	0	19.16	19.40	19.27				
10	QPSK	25	12	19.24	19.22	19.21	19.9	0		
10	QPSK	25	25	19.22	19.25	19.14				
10	QPSK	50	0	19.18	19.36	19.26				
10	16QAM	1	0	19.31	19.29	19.18	19.9	0		
10	16QAM	1	25	19.21	19.29	19.10				
10	16QAM	1	49	19.23	19.30	19.20				
10	16QAM	25	0	19.10	19.22	19.21	19.9	0		
10	16QAM	25	12	19.01	19.21	19.11				
10	16QAM	25	25	19.13	19.29	19.19				
10	16QAM	50	0	19.25	19.26	19.20	19.9	0		
10	64QAM	1	0	19.25	19.30	19.21				
10	64QAM	1	25	19.06	19.20	19.15				
10	64QAM	1	49	19.14	19.20	19.17	19.9	0		
10	64QAM	25	0	19.21	19.25	19.22				
10	64QAM	25	12	19.10	19.25	19.12				
10	64QAM	25	25	19.27	19.32	19.22	19.9	0		
10	64QAM	50	0	19.09	19.17	19.09				
Channel				20425	20525	20625			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	19.9	0		
5	QPSK	1	0	19.14	19.27	19.17				
5	QPSK	1	12	19.09	19.13	19.00				
5	QPSK	1	24	19.00	19.18	19.01	19.9	0		
5	QPSK	12	0	19.08	19.26	19.15				
5	QPSK	12	7	19.17	19.22	19.11				
5	QPSK	12	13	19.03	19.19	19.03	19.9	0		
5	QPSK	25	0	19.06	19.23	19.13				
5	16QAM	1	0	19.25	19.15	19.14				
5	16QAM	1	12	19.09	19.13	19.05	19.9	0		
5	16QAM	1	24	19.08	19.14	19.10				
5	16QAM	12	0	19.04	19.18	19.05				
5	16QAM	12	7	18.99	19.08	19.00	19.9	0		
5	16QAM	12	13	19.06	19.15	19.07				
5	16QAM	25	0	19.06	19.14	19.11				
5	64QAM	1	0	19.12	19.22	19.10	19.9	0		
5	64QAM	1	12	18.90	19.10	19.02				
5	64QAM	1	24	19.00	19.10	19.01				
5	64QAM	12	0	19.09	19.12	19.09	19.9	0		
5	64QAM	12	7	19.00	19.16	19.03				
5	64QAM	12	13	19.15	19.21	19.12				
5	64QAM	25	0	18.91	19.11	19.03	19.9	0		
Channel				20415	20525	20635			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	19.20	19.31	19.23	19.9	0		
3	QPSK	1	8	19.10	19.19	19.07				
3	QPSK	1	14	19.09	19.21	19.07				
3	QPSK	8	0	19.12	19.26	19.19	19.9	0		
3	QPSK	8	4	19.21	19.18	19.10				



3	QPSK	8	7	19.13	19.19	19.07		
3	QPSK	15	0	19.09	19.34	19.27		
3	16QAM	1	0	19.22	19.25	19.12	19.9	0
3	16QAM	1	8	19.22	19.15	19.08		
3	16QAM	1	14	19.18	19.20	19.11		
3	16QAM	8	0	19.09	19.18	19.15	19.9	0
3	16QAM	8	4	19.01	19.16	19.07		
3	16QAM	8	7	19.07	19.16	19.07		
3	16QAM	15	0	19.17	19.26	19.15	19.9	0
3	64QAM	1	0	19.21	19.18	19.12		
3	64QAM	1	8	18.99	19.11	19.06		
3	64QAM	1	14	19.05	19.12	19.08	19.9	0
3	64QAM	8	0	19.19	19.24	19.14		
3	64QAM	8	4	18.99	19.18	19.09		
3	64QAM	8	7	19.19	19.25	19.17	19.9	0
3	64QAM	15	0	18.99	19.12	19.07		
Channel				20407	20525	20643		
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	19.22	19.27	19.21	19.9	0
1.4	QPSK	1	3	19.16	19.25	19.07		
1.4	QPSK	1	5	19.07	19.19	19.20		
1.4	QPSK	3	0	19.16	19.28	19.16		
1.4	QPSK	3	1	19.25	19.25	19.14		
1.4	QPSK	3	3	19.14	19.24	19.15		
1.4	QPSK	6	0	19.20	19.30	19.27	19.9	0
1.4	16QAM	1	0	19.18	19.24	19.16	19.9	0
1.4	16QAM	1	3	19.16	19.25	19.12		
1.4	16QAM	1	5	19.20	19.27	19.21		
1.4	16QAM	3	0	19.14	19.21	19.13		
1.4	16QAM	3	1	18.99	19.14	19.11		
1.4	16QAM	3	3	19.14	19.19	19.10		
1.4	16QAM	6	0	19.16	19.27	19.12	19.9	0
1.4	64QAM	1	0	19.21	19.25	19.12	19.9	0
1.4	64QAM	1	3	18.96	19.15	19.06		
1.4	64QAM	1	5	19.06	19.17	19.07		
1.4	64QAM	3	0	19.21	19.27	19.19		
1.4	64QAM	3	1	19.02	19.19	19.06		
1.4	64QAM	3	3	19.28	19.29	19.11		
1.4	64QAM	6	0	19.04	19.16	19.06	19.9	0



Band 7								
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	14.1	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	12.88	12.90	12.87		
20	QPSK	1	49	12.59	12.64	12.52	14.1	0
20	QPSK	1	99	12.61	12.71	12.57		
20	QPSK	50	0	12.54	12.73	12.58		
20	QPSK	50	24	12.64	12.61	12.56	14.1	0
20	QPSK	50	50	12.52	12.68	12.54		
20	QPSK	100	0	12.63	12.70	12.59		
20	16QAM	1	0	12.48	12.68	12.52	14.1	0
20	16QAM	1	49	12.53	12.65	12.53		
20	16QAM	1	99	12.68	12.73	12.64		
20	16QAM	50	0	12.60	12.68	12.49	14.1	0
20	16QAM	50	24	12.54	12.63	12.51		
20	16QAM	50	50	12.58	12.58	12.53		
20	16QAM	100	0	12.49	12.69	12.51	14.1	0
20	64QAM	1	0	12.65	12.64	12.63		
20	64QAM	1	49	12.48	12.69	12.61		
20	64QAM	1	99	12.62	12.67	12.57	14.1	0
20	64QAM	50	0	12.45	12.58	12.39		
20	64QAM	50	24	12.57	12.62	12.48		
20	64QAM	50	50	12.59	12.64	12.64	14.1	0
20	64QAM	100	0	12.44	12.61	12.53		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	12.64	12.78	12.60		
15	QPSK	1	37	12.58	12.56	12.46	14.1	0
15	QPSK	1	74	12.52	12.62	12.59		
15	QPSK	36	0	12.54	12.72	12.52		
15	QPSK	36	20	12.54	12.58	12.54	14.1	0
15	QPSK	36	39	12.44	12.63	12.45		
15	QPSK	75	0	12.54	12.61	12.54		
15	16QAM	1	0	12.42	12.59	12.46	14.1	0
15	16QAM	1	37	12.53	12.53	12.42		
15	16QAM	1	74	12.61	12.61	12.59		
15	16QAM	36	0	12.57	12.55	12.49	14.1	0
15	16QAM	36	20	12.49	12.57	12.49		
15	16QAM	36	39	12.49	12.59	12.43		
15	16QAM	75	0	12.48	12.64	12.44	14.1	0
15	64QAM	1	0	12.59	12.56	12.59		
15	64QAM	1	37	12.44	12.60	12.56		
15	64QAM	1	74	12.53	12.67	12.49	14.1	0
15	64QAM	36	0	12.39	12.56	12.37		
15	64QAM	36	20	12.53	12.55	12.41		
15	64QAM	36	39	12.49	12.64	12.54	14.1	0
15	64QAM	75	0	12.32	12.56	12.52		
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	12.57	12.74	12.54		
10	QPSK	1	25	12.49	12.60	12.47	14.1	0
10	QPSK	1	49	12.52	12.58	12.55		
10	QPSK	25	0	12.46	12.70	12.52		
10	QPSK	25	12	12.55	12.57	12.42	14.1	0



10	QPSK	25	25	12.36	12.57	12.43		
10	QPSK	50	0	12.50	12.62	12.53		
10	16QAM	1	0	12.42	12.54	12.44	14.1	0
10	16QAM	1	25	12.40	12.53	12.38		
10	16QAM	1	49	12.59	12.57	12.54		
10	16QAM	25	0	12.50	12.55	12.38	14.1	0
10	16QAM	25	12	12.41	12.52	12.40		
10	16QAM	25	25	12.45	12.55	12.44		
10	16QAM	50	0	12.40	12.59	12.52	14.1	0
10	64QAM	1	0	12.54	12.51	12.49		
10	64QAM	1	25	12.34	12.59	12.43		
10	64QAM	1	49	12.47	12.57	12.48	14.1	0
10	64QAM	25	0	12.33	12.48	12.30		
10	64QAM	25	12	12.44	12.53	12.41		
10	64QAM	25	25	12.48	12.58	12.48	14.1	0
10	64QAM	50	0	12.33	12.47	12.43		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	12.59	12.68	12.56	14.1	0
5	QPSK	1	12	12.54	12.55	12.47		
5	QPSK	1	24	12.48	12.65	12.52		
5	QPSK	12	0	12.48	12.76	12.51	14.1	0
5	QPSK	12	7	12.50	12.51	12.47		
5	QPSK	12	13	12.44	12.60	12.46		
5	QPSK	25	0	12.56	12.65	12.55	14.1	0
5	16QAM	1	0	12.38	12.62	12.41		
5	16QAM	1	12	12.50	12.56	12.38		
5	16QAM	1	24	12.58	12.63	12.63	14.1	0
5	16QAM	12	0	12.55	12.60	12.42		
5	16QAM	12	7	12.43	12.54	12.43		
5	16QAM	12	13	12.51	12.60	12.47	14.1	0
5	16QAM	25	0	12.41	12.60	12.54		
5	64QAM	1	0	12.53	12.58	12.58		
5	64QAM	1	12	12.45	12.61	12.52	14.1	0
5	64QAM	1	24	12.47	12.64	12.52		
5	64QAM	12	0	12.36	12.52	12.37		
5	64QAM	12	7	12.55	12.53	12.48	14.1	0
5	64QAM	12	13	12.44	12.55	12.54		
5	64QAM	25	0	12.39	12.48	12.46		



Band 17								
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	23.10	23.28	23.13	24.5	0
10	QPSK	1	25	22.98	23.21	23.05		
10	QPSK	1	49	22.93	23.14	23.01		
10	QPSK	25	0	22.52	22.68	22.48	24	0.5
10	QPSK	25	12	22.62	22.45	22.49		
10	QPSK	25	25	22.54	22.55	22.44		
10	QPSK	50	0	22.59	22.62	22.42	24	0.5
10	16QAM	1	0	22.51	22.46	22.41		
10	16QAM	1	25	22.50	22.53	22.52		
10	16QAM	1	49	22.49	22.31	22.52	23	1.5
10	16QAM	25	0	21.48	21.61	21.50		
10	16QAM	25	12	21.47	21.42	21.48		
10	16QAM	25	25	21.61	21.49	21.44	23	1.5
10	16QAM	50	0	21.43	21.40	21.37		
10	64QAM	1	0	21.50	21.67	21.43		
10	64QAM	1	25	21.38	21.54	21.37	23	1.5
10	64QAM	1	49	21.41	21.30	21.46		
10	64QAM	25	0	20.44	20.52	20.48		
10	64QAM	25	12	20.59	20.48	20.48	22	2.5
10	64QAM	25	25	20.45	20.46	20.30		
10	64QAM	50	0	20.30	20.37	20.29		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.97	23.17	23.02	24.5	0
5	QPSK	1	12	22.88	23.11	22.99		
5	QPSK	1	24	22.81	23.07	22.89		
5	QPSK	12	0	22.38	22.56	22.44	24	0.5
5	QPSK	12	7	22.55	22.38	22.34		
5	QPSK	12	13	22.49	22.49	22.37		
5	QPSK	25	0	22.44	22.56	22.32	24	0.5
5	16QAM	1	0	22.36	22.37	22.29		
5	16QAM	1	12	22.37	22.46	22.41		
5	16QAM	1	24	22.37	22.20	22.48	23	1.5
5	16QAM	12	0	21.38	21.49	21.41		
5	16QAM	12	7	21.41	21.31	21.35		
5	16QAM	12	13	21.49	21.42	21.35	23	1.5
5	16QAM	25	0	21.37	21.27	21.30		
5	64QAM	1	0	21.43	21.63	21.32		
5	64QAM	1	12	21.28	21.51	21.28	23	1.5
5	64QAM	1	24	21.34	21.27	21.39		
5	64QAM	12	0	20.30	20.42	20.38		
5	64QAM	12	7	20.44	20.34	20.38	22	2.5
5	64QAM	12	13	20.33	20.43	20.23		
5	64QAM	25	0	20.25	20.26	20.14		



Band 66								
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	16.4	0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	15.49	15.52	15.51	16.4	0
20	QPSK	1	49	15.47	15.45	15.40		
20	QPSK	1	99	15.48	15.53	15.51		
20	QPSK	50	0	15.43	15.55	15.53	16.4	0
20	QPSK	50	24	15.38	15.43	15.46		
20	QPSK	50	50	15.27	15.40	15.28		
20	QPSK	100	0	15.45	15.54	15.39	16.4	0
20	16QAM	1	0	15.41	15.52	15.38		
20	16QAM	1	49	15.37	15.44	15.41		
20	16QAM	1	99	15.30	15.44	15.37	16.4	0
20	16QAM	50	0	15.45	15.48	15.32		
20	16QAM	50	24	15.38	15.49	15.37		
20	16QAM	50	50	15.48	15.44	15.30	16.4	0
20	16QAM	100	0	15.34	15.50	15.40		
20	64QAM	1	0	15.29	15.44	15.35		
20	64QAM	1	49	15.45	15.52	15.37	16.4	0
20	64QAM	1	99	15.43	15.43	15.40		
20	64QAM	50	0	15.52	15.46	15.43		
20	64QAM	50	24	15.38	15.40	15.26	16.4	0
20	64QAM	50	50	15.31	15.41	15.42		
20	64QAM	100	0	15.46	15.47	15.48		
Channel				132047	132322	132597	16.4	0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	15.44	15.41	15.43	16.4	0
15	QPSK	1	37	15.41	15.40	15.39		
15	QPSK	1	74	15.50	15.46	15.43		
15	QPSK	36	0	15.43	15.45	15.47	16.4	0
15	QPSK	36	20	15.32	15.41	15.41		
15	QPSK	36	39	15.17	15.36	15.28		
15	QPSK	75	0	15.37	15.35	15.39	16.4	0
15	16QAM	1	0	15.37	15.44	15.36		
15	16QAM	1	37	15.33	15.39	15.42		
15	16QAM	1	74	15.28	15.39	15.28	16.4	0
15	16QAM	36	0	15.41	15.47	15.33		
15	16QAM	36	20	15.37	15.44	15.36		
15	16QAM	36	39	15.44	15.45	15.31	16.4	0
15	16QAM	75	0	15.35	15.48	15.39		
15	64QAM	1	0	15.32	15.39	15.41		
15	64QAM	1	37	15.44	15.50	15.27	16.4	0
15	64QAM	1	74	15.39	15.44	15.37		
15	64QAM	36	0	15.48	15.48	15.46		
15	64QAM	36	20	15.33	15.40	15.26	16.4	0
15	64QAM	36	39	15.36	15.45	15.36		
15	64QAM	75	0	15.36	15.42	15.41		
Channel				132022	132322	132622	16.4	0
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	15.32	15.45	15.43	16.4	0
10	QPSK	1	25	15.38	15.33	15.25		
10	QPSK	1	49	15.35	15.36	15.35		
10	QPSK	25	0	15.31	15.43	15.33	16.4	0
10	QPSK	25	12	15.24	15.35	15.31		



10	QPSK	25	25	15.13	15.37	15.15		
10	QPSK	50	0	15.33	15.42	15.39		
10	16QAM	1	0	15.30	15.33	15.23	16.4	0
10	16QAM	1	25	15.30	15.43	15.31		
10	16QAM	1	49	15.23	15.40	15.26		
10	16QAM	25	0	15.34	15.39	15.18	16.4	0
10	16QAM	25	12	15.26	15.34	15.29		
10	16QAM	25	25	15.31	15.33	15.24		
10	16QAM	50	0	15.28	15.45	15.32	16.4	0
10	64QAM	1	0	15.23	15.32	15.26		
10	64QAM	1	25	15.42	15.45	15.23		
10	64QAM	1	49	15.28	15.39	15.30	16.4	0
10	64QAM	25	0	15.45	15.45	15.39		
10	64QAM	25	12	15.28	15.32	15.14		
10	64QAM	25	25	15.24	15.30	15.32	16.4	0
10	64QAM	50	0	15.29	15.33	15.35		
Channel				131997	132322	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	15.41	15.50	15.48	16.4	0
5	QPSK	1	12	15.35	15.36	15.28		
5	QPSK	1	24	15.36	15.47	15.44		
5	QPSK	12	0	15.35	15.50	15.41	16.4	0
5	QPSK	12	7	15.31	15.35	15.43		
5	QPSK	12	13	15.14	15.39	15.28		
5	QPSK	25	0	15.36	15.42	15.36	16.4	0
5	16QAM	1	0	15.28	15.44	15.34		
5	16QAM	1	12	15.32	15.41	15.31		
5	16QAM	1	24	15.28	15.35	15.27	16.4	0
5	16QAM	12	0	15.42	15.47	15.27		
5	16QAM	12	7	15.25	15.46	15.39		
5	16QAM	12	13	15.43	15.44	15.27	16.4	0
5	16QAM	25	0	15.24	15.45	15.40		
5	64QAM	1	0	15.22	15.35	15.29		
5	64QAM	1	12	15.46	15.42	15.30	16.4	0
5	64QAM	1	24	15.38	15.35	15.34		
5	64QAM	12	0	15.44	15.42	15.43		
5	64QAM	12	7	15.28	15.35	15.25	16.4	0
5	64QAM	12	13	15.24	15.40	15.30		
5	64QAM	25	0	15.38	15.40	15.40		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	15.33	15.42	15.39	16.4	0
3	QPSK	1	8	15.31	15.35	15.27		
3	QPSK	1	14	15.37	15.34	15.33		
3	QPSK	8	0	15.36	15.43	15.38	16.4	0
3	QPSK	8	4	15.30	15.31	15.28		
3	QPSK	8	7	15.11	15.23	15.19		
3	QPSK	15	0	15.30	15.48	15.29	16.4	0
3	16QAM	1	0	15.20	15.42	15.32		
3	16QAM	1	8	15.29	15.39	15.37		
3	16QAM	1	14	15.24	15.40	15.21	16.4	0
3	16QAM	8	0	15.29	15.35	15.23		
3	16QAM	8	4	15.31	15.39	15.31		
3	16QAM	8	7	15.27	15.41	15.18	16.4	0
3	16QAM	15	0	15.21	15.40	15.30		
3	64QAM	1	0	15.19	15.34	15.26		



3	64QAM	1	8	15.30	15.37	15.16	16.4	0
3	64QAM	1	14	15.28	15.37	15.28		
3	64QAM	8	0	15.35	15.42	15.38		
3	64QAM	8	4	15.26	15.35	15.14		
3	64QAM	8	7	15.19	15.34	15.32		
3	64QAM	15	0	15.31	15.27	15.31		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	15.36	15.45	15.46	16.4	0
1.4	QPSK	1	3	15.35	15.41	15.28		
1.4	QPSK	1	5	15.43	15.47	15.40		
1.4	QPSK	3	0	15.32	15.44	15.40		
1.4	QPSK	3	1	15.28	15.36	15.35		
1.4	QPSK	3	3	15.19	15.38	15.18		
1.4	QPSK	6	0	15.34	15.45	15.32	16.4	0
1.4	16QAM	1	0	15.30	15.40	15.30	16.4	0
1.4	16QAM	1	3	15.33	15.38	15.34		
1.4	16QAM	1	5	15.23	15.32	15.31		
1.4	16QAM	3	0	15.37	15.44	15.17		
1.4	16QAM	3	1	15.33	15.45	15.28		
1.4	16QAM	3	3	15.35	15.40	15.20		
1.4	16QAM	6	0	15.32	15.44	15.32	16.4	0
1.4	64QAM	1	0	15.20	15.36	15.33	16.4	0
1.4	64QAM	1	3	15.34	15.45	15.23		
1.4	64QAM	1	5	15.30	15.39	15.28		
1.4	64QAM	3	0	15.42	15.45	15.33		
1.4	64QAM	3	1	15.28	15.34	15.14		
1.4	64QAM	3	3	15.28	15.40	15.29		
1.4	64QAM	6	0	15.36	15.42	15.34	16.4	0



Ant2

Band 2 ENDC								
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	17.3	0
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	16.31	16.42	16.27		
20	QPSK	1	49	16.29	16.40	16.31	17.3	0
20	QPSK	1	99	16.27	16.33	16.22		
20	QPSK	50	0	16.27	16.39	16.33		
20	QPSK	50	24	16.28	16.37	16.23	17.3	0
20	QPSK	50	50	16.20	16.33	16.20		
20	QPSK	100	0	16.23	16.36	16.32		
20	16QAM	1	0	16.26	16.35	16.21	17.3	0
20	16QAM	1	49	16.22	16.30	16.20		
20	16QAM	1	99	16.14	16.27	16.15		
20	16QAM	50	0	16.24	16.31	16.17	17.3	0
20	16QAM	50	24	16.19	16.34	16.29		
20	16QAM	50	50	16.17	16.27	16.22		
20	16QAM	100	0	16.23	16.30	16.26	17.3	0
20	64QAM	1	0	16.26	16.32	16.28		
20	64QAM	1	49	16.29	16.34	16.26		
20	64QAM	1	99	16.30	16.35	16.23	17.3	0
20	64QAM	50	0	16.25	16.32	16.26		
20	64QAM	50	24	16.24	16.34	16.22		
20	64QAM	50	50	16.23	16.28	16.19	17.3	0
20	64QAM	100	0	16.24	16.32	16.18		
Channel				18675	18900	19125		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	16.19	16.39	16.12	17.3	0
15	QPSK	1	37	16.16	16.25	16.18		
15	QPSK	1	74	16.17	16.18	16.11		
15	QPSK	36	0	16.17	16.29	16.25	17.3	0
15	QPSK	36	20	16.15	16.23	16.10		
15	QPSK	36	39	16.14	16.20	16.13		
15	QPSK	75	0	16.11	16.27	16.21	17.3	0
15	16QAM	1	0	16.21	16.25	16.09		
15	16QAM	1	37	16.18	16.16	16.11		
15	16QAM	1	74	16.10	16.21	16.07	17.3	0
15	16QAM	36	0	16.18	16.22	16.12		
15	16QAM	36	20	16.06	16.23	16.25		
15	16QAM	36	39	16.10	16.14	16.17	17.3	0
15	16QAM	75	0	16.19	16.18	16.13		
15	64QAM	1	0	16.12	16.21	16.16		
15	64QAM	1	37	16.18	16.25	16.19	17.3	0
15	64QAM	1	74	16.27	16.28	16.11		
15	64QAM	36	0	16.22	16.25	16.14		
15	64QAM	36	20	16.19	16.21	16.11	17.3	0
15	64QAM	36	39	16.11	16.14	16.09		
15	64QAM	75	0	16.20	16.22	16.06		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	16.19	16.31	16.22	17.3	0
10	QPSK	1	25	16.24	16.31	16.27		
10	QPSK	1	49	16.20	16.25	16.13		
10	QPSK	25	0	16.20	16.25	16.19		



10	QPSK	25	12	16.25	16.23	16.17		
10	QPSK	25	25	16.07	16.22	16.13		
10	QPSK	50	0	16.17	16.24	16.28		
10	16QAM	1	0	16.22	16.20	16.14	17.3	0
10	16QAM	1	25	16.18	16.24	16.07		
10	16QAM	1	49	16.10	16.14	16.10		
10	16QAM	25	0	16.14	16.20	16.04	17.3	0
10	16QAM	25	12	16.04	16.22	16.26		
10	16QAM	25	25	16.08	16.16	16.17		
10	16QAM	50	0	16.17	16.19	16.19		
10	64QAM	1	0	16.18	16.22	16.15	17.3	0
10	64QAM	1	25	16.17	16.26	16.18		
10	64QAM	1	49	16.23	16.27	16.18		
10	64QAM	25	0	16.12	16.18	16.19	17.3	0
10	64QAM	25	12	16.15	16.22	16.16		
10	64QAM	25	25	16.14	16.15	16.07		
10	64QAM	50	0	16.14	16.26	16.11		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	16.17	16.34	16.16	17.3	0
5	QPSK	1	12	16.15	16.30	16.25		
5	QPSK	1	24	16.20	16.24	16.16		
5	QPSK	12	0	16.14	16.28	16.28	17.3	0
5	QPSK	12	7	16.16	16.24	16.18		
5	QPSK	12	13	16.08	16.23	16.13		
5	QPSK	25	0	16.09	16.31	16.29	17.3	0
5	16QAM	1	0	16.22	16.31	16.17		
5	16QAM	1	12	16.13	16.16	16.08		
5	16QAM	1	24	16.09	16.20	16.01	17.3	0
5	16QAM	12	0	16.12	16.24	16.11		
5	16QAM	12	7	16.13	16.30	16.18		
5	16QAM	12	13	16.06	16.23	16.12	17.3	0
5	16QAM	25	0	16.12	16.23	16.20		
5	64QAM	1	0	16.19	16.26	16.21		
5	64QAM	1	12	16.24	16.29	16.13	17.3	0
5	64QAM	1	24	16.24	16.28	16.14		
5	64QAM	12	0	16.11	16.25	16.22		
5	64QAM	12	7	16.19	16.23	16.10	17.3	0
5	64QAM	12	13	16.14	16.18	16.06		
5	64QAM	25	0	16.17	16.23	16.10		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	16.20	16.36	16.16	17.3	0
3	QPSK	1	8	16.16	16.27	16.18		
3	QPSK	1	14	16.23	16.26	16.13		
3	QPSK	8	0	16.17	16.36	16.23	17.3	0
3	QPSK	8	4	16.22	16.23	16.11		
3	QPSK	8	7	16.09	16.28	16.05		
3	QPSK	15	0	16.11	16.25	16.27	17.3	0
3	16QAM	1	0	16.19	16.24	16.17		
3	16QAM	1	8	16.07	16.26	16.13		
3	16QAM	1	14	16.05	16.22	16.11	17.3	0
3	16QAM	8	0	16.13	16.25	16.07		
3	16QAM	8	4	16.13	16.25	16.24		
3	16QAM	8	7	16.12	16.17	16.16	17.3	0
3	16QAM	15	0	16.08	16.18	16.15		



3	64QAM	1	0	16.20	16.23	16.16	17.3	0
3	64QAM	1	8	16.21	16.21	16.12		
3	64QAM	1	14	16.16	16.29	16.10		
3	64QAM	8	0	16.20	16.26	16.14	17.3	0
3	64QAM	8	4	16.13	16.29	16.13		
3	64QAM	8	7	16.15	16.24	16.09		
3	64QAM	15	0	16.10	16.28	16.05		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	16.25	16.35	16.22	17.3	0
1.4	QPSK	1	3	16.16	16.28	16.17		
1.4	QPSK	1	5	16.18	16.29	16.13		
1.4	QPSK	3	0	16.19	16.35	16.22		
1.4	QPSK	3	1	16.14	16.34	16.19		
1.4	QPSK	3	3	16.07	16.27	16.08		
1.4	QPSK	6	0	16.14	16.25	16.26	17.3	0
1.4	16QAM	1	0	16.21	16.21	16.08	17.3	0
1.4	16QAM	1	3	16.10	16.26	16.14		
1.4	16QAM	1	5	16.10	16.18	16.11		
1.4	16QAM	3	0	16.11	16.22	16.11		
1.4	16QAM	3	1	16.14	16.30	16.25		
1.4	16QAM	3	3	16.03	16.24	16.18		
1.4	16QAM	6	0	16.19	16.21	16.23	17.3	0
1.4	64QAM	1	0	16.19	16.24	16.25	17.3	0
1.4	64QAM	1	3	16.18	16.19	16.15		
1.4	64QAM	1	5	16.18	16.23	16.15		
1.4	64QAM	3	0	16.11	16.21	16.19		
1.4	64QAM	3	1	16.18	16.27	16.18		
1.4	64QAM	3	3	16.19	16.15	16.10		
1.4	64QAM	6	0	16.14	16.27	16.12	17.3	0



Band 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				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	24.25	24.30	24.12	24.5	0
10	QPSK	1	25	24.00	24.04	24.04		
10	QPSK	1	49	23.89	24.05	23.94		
10	QPSK	25	0	23.25	23.45	23.34	24	0.5
10	QPSK	25	12	23.24	23.29	23.21		
10	QPSK	25	25	23.31	23.35	23.15		
10	QPSK	50	0	23.35	23.43	23.30	24	0.5
10	16QAM	1	0	23.35	23.30	23.26		
10	16QAM	1	25	23.40	23.44	23.34		
10	16QAM	1	49	23.39	23.35	23.37	23	1.5
10	16QAM	25	0	22.15	22.33	22.23		
10	16QAM	25	12	22.31	22.30	22.31		
10	16QAM	25	25	22.22	22.33	22.25	23	1.5
10	16QAM	50	0	22.22	22.40	22.43		
10	64QAM	1	0	22.12	22.28	22.04		
10	64QAM	1	25	22.06	22.07	21.98	23	1.5
10	64QAM	1	49	22.00	22.20	22.07		
10	64QAM	25	0	21.11	21.25	21.12		
10	64QAM	25	12	21.29	21.34	21.23	22	2.5
10	64QAM	25	25	21.38	21.37	21.25		
10	64QAM	50	0	21.24	21.38	21.24		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	24.20	24.27	24.10	24.5	0
5	QPSK	1	12	24.01	24.11	24.07		
5	QPSK	1	24	23.94	24.02	23.90		
5	QPSK	12	0	23.25	23.46	23.31	24	0.5
5	QPSK	12	7	23.21	23.33	23.15		
5	QPSK	12	13	23.23	23.44	23.17		
5	QPSK	25	0	23.33	23.43	23.33	24	0.5
5	16QAM	1	0	23.38	23.31	23.27		
5	16QAM	1	12	23.34	23.46	23.38		
5	16QAM	1	24	23.42	23.33	23.35	23	1.5
5	16QAM	12	0	22.14	22.30	22.24		
5	16QAM	12	7	22.29	22.29	22.32		
5	16QAM	12	13	22.28	22.29	22.25	23	1.5
5	16QAM	25	0	22.20	22.34	22.41		
5	64QAM	1	0	22.13	22.30	22.02		
5	64QAM	1	12	22.05	22.01	21.98	23	1.5
5	64QAM	1	24	21.94	22.18	22.06		
5	64QAM	12	0	21.15	21.24	21.16		
5	64QAM	12	7	21.32	21.35	21.24	22	2.5
5	64QAM	12	13	21.41	21.36	21.26		
5	64QAM	25	0	21.29	21.42	21.27		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	24.24	24.26	24.10	24.5	0
3	QPSK	1	8	23.99	24.09	24.01		
3	QPSK	1	14	23.92	24.05	23.94		
3	QPSK	8	0	23.23	23.40	23.34	24	0.5



3	QPSK	8	4	23.19	23.35	23.20		
3	QPSK	8	7	23.23	23.43	23.16		
3	QPSK	15	0	23.40	23.45	23.32		
3	16QAM	1	0	23.34	23.33	23.22	24	0.5
3	16QAM	1	8	23.38	23.45	23.40		
3	16QAM	1	14	23.37	23.33	23.39		
3	16QAM	8	0	22.20	22.30	22.21	23	1.5
3	16QAM	8	4	22.24	22.31	22.32		
3	16QAM	8	7	22.25	22.29	22.19		
3	16QAM	15	0	22.19	22.39	22.39		
3	64QAM	1	0	22.11	22.28	21.99	23	1.5
3	64QAM	1	8	22.03	22.03	22.02		
3	64QAM	1	14	21.98	22.18	22.09		
3	64QAM	8	0	21.13	21.27	21.14	22	2.5
3	64QAM	8	4	21.34	21.39	21.17		
3	64QAM	8	7	21.39	21.38	21.25		
3	64QAM	15	0	21.23	21.44	21.23		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	24.19	24.23	24.15	24.5	0
1.4	QPSK	1	3	24.05	24.05	24.04		
1.4	QPSK	1	5	23.89	24.02	23.92		
1.4	QPSK	3	0	23.19	23.46	23.38		
1.4	QPSK	3	1	23.23	23.35	23.20		
1.4	QPSK	3	3	23.25	23.43	23.12		
1.4	QPSK	6	0	23.32	23.48	23.26	24	0.5
1.4	16QAM	1	0	23.38	23.32	23.23	24	0.5
1.4	16QAM	1	3	23.39	23.43	23.36		
1.4	16QAM	1	5	23.37	23.35	23.35		
1.4	16QAM	3	0	22.19	22.34	22.24		
1.4	16QAM	3	1	22.30	22.25	22.36		
1.4	16QAM	3	3	22.28	22.32	22.25		
1.4	16QAM	6	0	22.19	22.35	22.41	23	1.5
1.4	64QAM	1	0	22.09	22.32	21.98	23	1.5
1.4	64QAM	1	3	22.02	22.04	21.99		
1.4	64QAM	1	5	21.96	22.15	22.08		
1.4	64QAM	3	0	21.11	21.21	21.15		
1.4	64QAM	3	1	21.28	21.35	21.23		
1.4	64QAM	3	3	21.36	21.37	21.31		
1.4	64QAM	6	0	21.26	21.40	21.27	22	2.5



Band 7 ENDC								
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	15.2	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	14.21	14.31	14.29		
20	QPSK	1	49	14.13	14.14	14.02	15.2	0
20	QPSK	1	99	14.24	14.20	14.17		
20	QPSK	50	0	14.11	14.28	14.11		
20	QPSK	50	24	14.19	14.27	14.04	15.2	0
20	QPSK	50	50	14.13	14.24	14.15		
20	QPSK	100	0	14.17	14.29	14.26		
20	16QAM	1	0	14.00	14.09	14.09	15.2	0
20	16QAM	1	49	13.99	14.12	13.98		
20	16QAM	1	99	14.07	14.23	14.01		
20	16QAM	50	0	13.97	14.16	14.04	15.2	0
20	16QAM	50	24	14.13	14.15	14.11		
20	16QAM	50	50	13.96	14.11	14.00		
20	16QAM	100	0	14.01	14.18	14.01	15.2	0
20	64QAM	1	0	13.96	14.13	13.96		
20	64QAM	1	49	13.87	14.05	13.92		
20	64QAM	1	99	14.08	14.15	14.04	15.2	0
20	64QAM	50	0	14.12	14.17	14.25		
20	64QAM	50	24	14.09	14.16	14.13		
20	64QAM	50	50	14.04	14.16	14.14	15.2	0
20	64QAM	100	0	14.11	14.17	14.15		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	14.06	14.20	14.15		
15	QPSK	1	37	14.00	14.12	14.00	15.2	0
15	QPSK	1	74	14.13	14.12	14.10		
15	QPSK	36	0	14.01	14.18	14.10		
15	QPSK	36	20	14.03	14.22	14.03	15.2	0
15	QPSK	36	39	14.11	14.06	13.98		
15	QPSK	75	0	14.00	14.20	14.10		
15	16QAM	1	0	13.95	14.02	14.05	15.2	0
15	16QAM	1	37	13.91	14.03	13.96		
15	16QAM	1	74	13.94	14.10	13.92		
15	16QAM	36	0	13.94	14.12	14.00	15.2	0
15	16QAM	36	20	14.04	14.14	14.11		
15	16QAM	36	39	13.86	13.97	13.87		
15	16QAM	75	0	13.94	14.10	14.04	15.2	0
15	64QAM	1	0	13.91	13.97	13.91		
15	64QAM	1	37	13.83	14.00	13.90		
15	64QAM	1	74	13.93	14.10	13.99	15.2	0
15	64QAM	36	0	14.01	14.11	14.10		
15	64QAM	36	20	14.01	14.11	14.00		
15	64QAM	36	39	13.96	14.14	14.13	15.2	0
15	64QAM	75	0	14.00	14.03	14.02		
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	14.09	14.25	14.11		
10	QPSK	1	25	14.04	14.08	13.97	15.2	0
10	QPSK	1	49	14.07	14.09	14.08		
10	QPSK	25	0	14.06	14.19	14.05		
10	QPSK	25	12	14.02	14.19	13.97	15.2	0



10	QPSK	25	25	14.02	14.10	14.02		
10	QPSK	50	0	14.05	14.19	14.18		
10	16QAM	1	0	13.94	14.02	13.95	15.2	0
10	16QAM	1	25	13.95	14.00	13.98		
10	16QAM	1	49	13.94	14.02	13.95		
10	16QAM	25	0	13.94	14.02	13.94	15.2	0
10	16QAM	25	12	14.11	14.21	14.05		
10	16QAM	25	25	13.87	14.08	13.93		
10	16QAM	50	0	13.89	14.15	14.02	15.2	0
10	64QAM	1	0	13.97	14.03	13.85		
10	64QAM	1	25	13.84	14.01	13.86		
10	64QAM	1	49	13.93	14.10	13.96	15.2	0
10	64QAM	25	0	13.97	14.02	14.12		
10	64QAM	25	12	13.99	14.10	14.09		
10	64QAM	25	25	14.01	14.16	14.05	15.2	0
10	64QAM	50	0	14.05	14.06	14.08		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	14.14	14.25	14.20	15.2	0
5	QPSK	1	12	13.95	14.11	13.96		
5	QPSK	1	24	14.10	14.13	14.12		
5	QPSK	12	0	14.07	14.26	14.02	15.2	0
5	QPSK	12	7	14.05	14.14	14.06		
5	QPSK	12	13	13.99	14.11	13.94		
5	QPSK	25	0	14.02	14.22	14.10	15.2	0
5	16QAM	1	0	13.98	14.01	13.96		
5	16QAM	1	12	13.89	14.04	13.89		
5	16QAM	1	24	13.96	14.05	13.89	15.2	0
5	16QAM	12	0	13.92	14.01	13.92		
5	16QAM	12	7	14.09	14.22	14.04		
5	16QAM	12	13	13.93	14.03	13.94	15.2	0
5	16QAM	25	0	13.99	14.11	14.00		
5	64QAM	1	0	13.92	14.06	13.83		
5	64QAM	1	12	13.80	13.92	13.90	15.2	0
5	64QAM	1	24	13.93	14.09	14.01		
5	64QAM	12	0	14.01	14.10	14.05		
5	64QAM	12	7	14.00	14.12	14.00	15.2	0
5	64QAM	12	13	13.96	14.11	14.02		
5	64QAM	25	0	14.05	14.04	14.08		

<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.

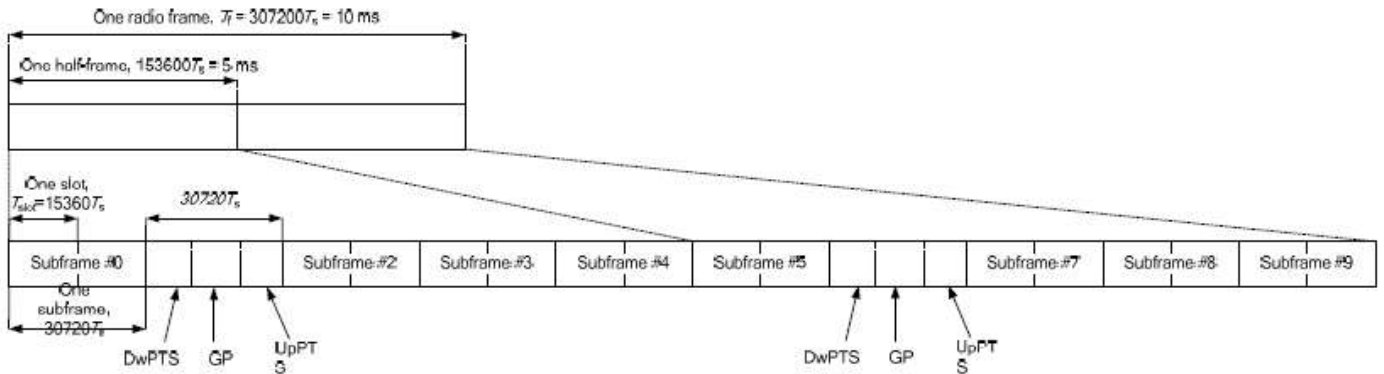


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$		
1	$19760 \cdot T_s$			$20480 \cdot T_s$				
2	$21952 \cdot T_s$			$23040 \cdot T_s$				
3	$24144 \cdot T_s$			$25600 \cdot T_s$				
4	$26336 \cdot T_s$			$7680 \cdot T_s$				
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$				
7	$21952 \cdot T_s$			$12800 \cdot T_s$				
8	$24144 \cdot T_s$			-				
9	$13168 \cdot T_s$			-				

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:

For Power class 3

- 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

Ant0

Band 38								
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	22.98	23.17	22.92		
20	QPSK	1	49	22.97	23.05	22.92		
20	QPSK	1	99	23.01	22.91	22.94		
20	QPSK	50	0	22.11	22.24	22.08	23	1
20	QPSK	50	24	22.20	22.02	22.21		
20	QPSK	50	50	22.17	22.19	22.09		
20	QPSK	100	0	22.14	22.20	21.97	23	1
20	16QAM	1	0	22.12	22.04	21.95		
20	16QAM	1	49	22.09	22.19	22.01		
20	16QAM	1	99	22.08	21.91	22.13	22	2
20	16QAM	50	0	21.23	21.23	21.16		
20	16QAM	50	24	21.00	20.98	21.04		
20	16QAM	50	50	21.16	21.00	21.07	22	2
20	16QAM	100	0	20.96	21.08	21.05		
20	64QAM	1	0	20.97	21.15	21.03		
20	64QAM	1	49	21.00	21.08	21.00	22	2
20	64QAM	1	99	20.94	20.96	20.99		
20	64QAM	50	0	20.11	20.16	20.04		
20	64QAM	50	24	20.22	20.06	20.02	21	3
20	64QAM	50	50	20.03	20.03	19.84		
20	64QAM	100	0	20.03	20.11	19.84		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.91	23.11	22.85		
15	QPSK	1	37	22.80	22.87	22.87		
15	QPSK	1	74	22.85	22.80	22.76		
15	QPSK	36	0	22.07	22.08	22.00	23	1
15	QPSK	36	20	22.05	21.97	22.11		
15	QPSK	36	39	22.09	22.12	21.94		
15	QPSK	75	0	22.04	22.08	21.93	23	1
15	16QAM	1	0	21.98	21.89	21.78		
15	16QAM	1	37	21.97	22.15	21.88		
15	16QAM	1	74	21.95	21.89	21.99	22	2
15	16QAM	36	0	21.11	21.18	21.05		
15	16QAM	36	20	20.97	20.81	20.99		
15	16QAM	36	39	21.04	20.87	20.97	22	2
15	16QAM	75	0	20.90	20.99	20.90		
15	64QAM	1	0	20.88	21.13	20.92		
15	64QAM	1	37	20.83	20.99	20.86	22	2
15	64QAM	1	74	20.87	20.90	20.87		
15	64QAM	36	0	20.03	20.01	19.90		
15	64QAM	36	20	20.15	19.99	19.99	21	3
15	64QAM	36	39	19.98	19.97	19.78		
15	64QAM	75	0	19.91	20.01	19.79		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.85	23.06	22.83		
10	QPSK	1	25	22.86	22.93	22.84		



10	QPSK	1	49	22.86	22.82	22.87		
10	QPSK	25	0	22.05	22.06	21.94	23	1
10	QPSK	25	12	22.12	21.85	22.07		
10	QPSK	25	25	21.99	22.06	21.91		
10	QPSK	50	0	21.96	22.13	21.95		
10	16QAM	1	0	22.07	21.92	21.91	23	1
10	16QAM	1	25	21.95	22.04	21.86		
10	16QAM	1	49	21.97	21.79	21.97		
10	16QAM	25	0	21.17	21.11	21.14	22	2
10	16QAM	25	12	20.97	20.83	20.87		
10	16QAM	25	25	21.00	20.88	20.97		
10	16QAM	50	0	20.86	21.01	21.01		
10	64QAM	1	0	20.81	21.10	20.93	22	2
10	64QAM	1	25	20.96	20.93	20.93		
10	64QAM	1	49	20.80	20.92	20.91		
10	64QAM	25	0	20.06	20.05	19.99	21	3
10	64QAM	25	12	20.10	20.02	19.90		
10	64QAM	25	25	19.99	20.00	19.79		
10	64QAM	50	0	19.86	20.01	19.69		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	22.83	23.03	22.82	24	0
5	QPSK	1	12	22.81	22.90	22.85		
5	QPSK	1	24	22.98	22.87	22.88		
5	QPSK	12	0	21.99	22.12	21.93	23	1
5	QPSK	12	7	22.11	21.88	22.13		
5	QPSK	12	13	22.06	22.03	21.93		
5	QPSK	25	0	22.03	22.06	21.81		
5	16QAM	1	0	22.00	22.01	21.92	23	1
5	16QAM	1	12	22.02	22.13	21.85		
5	16QAM	1	24	21.95	21.85	21.97		
5	16QAM	12	0	21.12	21.10	21.11	22	2
5	16QAM	12	7	20.86	20.91	20.92		
5	16QAM	12	13	21.04	20.87	20.98		
5	16QAM	25	0	20.87	20.93	21.03		
5	64QAM	1	0	20.86	21.09	20.96	22	2
5	64QAM	1	12	20.88	20.95	20.96		
5	64QAM	1	24	20.85	20.78	20.92		
5	64QAM	12	0	19.98	20.05	19.99	21	3
5	64QAM	12	7	20.08	19.95	19.85		
5	64QAM	12	13	19.94	20.00	19.71		
5	64QAM	25	0	19.93	20.05	19.72		



Ant2

Band 41										
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	25	0
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.03	24.14	24.32	24.20	23.97	25	0
20	QPSK	1	49	24.05	24.09	24.21	24.11	23.96		
20	QPSK	1	99	23.91	24.05	24.12	24.01	23.91		
20	QPSK	50	0	23.17	23.21	23.32	23.23	23.15	24	1
20	QPSK	50	24	23.07	23.15	23.26	23.11	23.07		
20	QPSK	50	50	23.01	23.14	23.20	23.16	23.05		
20	QPSK	100	0	23.11	23.23	23.31	23.25	23.07	24	1
20	16QAM	1	0	23.23	23.39	23.44	23.33	23.23		
20	16QAM	1	49	23.05	23.20	23.25	23.18	23.08		
20	16QAM	1	99	23.16	23.25	23.37	23.27	23.15	23	2
20	16QAM	50	0	22.14	22.26	22.34	22.20	22.10		
20	16QAM	50	24	22.00	22.13	22.22	22.16	22.06		
20	16QAM	50	50	22.16	22.22	22.31	22.23	22.13	23	2
20	16QAM	100	0	22.16	22.26	22.38	22.24	22.23		
20	64QAM	1	0	21.91	21.98	22.04	21.89	21.87		
20	64QAM	1	49	21.90	22.01	22.09	22.05	21.91	23	2
20	64QAM	1	99	21.98	22.10	22.16	22.11	22.03		
20	64QAM	50	0	21.17	21.26	21.38	21.25	21.17		
20	64QAM	50	24	20.97	21.13	21.21	21.07	21.01	22	3
20	64QAM	50	50	21.08	21.14	21.25	21.10	21.00		
20	64QAM	100	0	21.27	21.32	21.42	21.37	21.27		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.89	24.01	24.24	24.06	23.83	25.00	0
15	QPSK	1	37	23.91	23.98	24.08	24.01	23.82		
15	QPSK	1	74	23.83	23.95	24.00	23.95	23.77		
15	QPSK	36	0	23.13	23.15	23.21	23.09	23.04	24	1
15	QPSK	36	20	22.99	23.05	23.18	23.00	22.97		
15	QPSK	36	39	22.98	23.10	23.13	23.13	22.94		
15	QPSK	75	0	23.00	23.18	23.19	23.16	22.98	24	1
15	16QAM	1	0	23.11	23.25	23.37	23.27	23.12		
15	16QAM	1	37	22.92	23.11	23.21	23.06	22.94		
15	16QAM	1	74	23.04	23.13	23.26	23.16	23.03	23	2
15	16QAM	36	0	22.03	22.17	22.23	22.15	22.02		
15	16QAM	36	20	21.94	22.01	22.16	22.11	22.02		
15	16QAM	36	39	22.05	22.15	22.20	22.14	22.08	23	2
15	16QAM	75	0	22.07	22.17	22.29	22.12	22.16		
15	64QAM	1	0	21.85	21.93	21.93	21.84	21.74		
15	64QAM	1	37	21.76	21.87	21.95	22.01	21.86	23	2
15	64QAM	1	74	21.91	21.98	22.03	22.04	21.94		
15	64QAM	36	0	21.05	21.11	21.33	21.15	21.09		
15	64QAM	36	20	20.91	20.98	21.06	21.00	20.88	22	3
15	64QAM	36	39	20.99	21.01	21.15	21.00	20.97		
15	64QAM	75	0	21.14	21.19	21.37	21.25	21.20		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.89	24.10	24.27	24.09	23.82	25.00	0
10	QPSK	1	25	23.99	24.05	24.12	24.07	23.88		
10	QPSK	1	49	23.87	23.98	23.99	23.94	23.80		



10	QPSK	25	0	23.12	23.08	23.24	23.17	23.04	24	1
10	QPSK	25	12	22.93	23.06	23.16	22.99	22.95		
10	QPSK	25	25	22.97	23.09	23.13	23.07	23.00		
10	QPSK	50	0	22.99	23.14	23.26	23.16	22.99		
10	16QAM	1	0	23.19	23.32	23.35	23.27	23.17	24	1
10	16QAM	1	25	22.94	23.16	23.20	23.05	23.00		
10	16QAM	1	49	23.08	23.15	23.29	23.20	23.08		
10	16QAM	25	0	22.04	22.11	22.24	22.07	22.00	23	2
10	16QAM	25	12	21.92	22.09	22.12	22.02	21.93		
10	16QAM	25	25	22.11	22.16	22.25	22.17	22.03		
10	16QAM	50	0	22.11	22.17	22.28	22.21	22.16		
10	64QAM	1	0	21.78	21.91	21.94	21.74	21.79	23	2
10	64QAM	1	25	21.85	21.93	22.02	22.02	21.76		
10	64QAM	1	49	21.87	21.96	22.04	22.02	21.91		
10	64QAM	25	0	21.07	21.15	21.23	21.11	21.06	22	3
10	64QAM	25	12	20.87	21.05	21.09	20.99	20.90		
10	64QAM	25	25	21.02	21.09	21.19	21.06	20.87		
10	64QAM	50	0	21.14	21.24	21.27	21.28	21.18		
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	23.89	24.09	24.25	24.09	23.87	25.00	0
5	QPSK	1	12	23.91	24.00	24.07	24.06	23.88		
5	QPSK	1	24	23.85	23.93	24.06	23.91	23.80		
5	QPSK	12	0	23.11	23.12	23.18	23.17	23.07	24	1
5	QPSK	12	7	23.00	23.04	23.15	23.01	22.95		
5	QPSK	12	13	22.95	23.08	23.06	23.11	22.97		
5	QPSK	25	0	23.00	23.17	23.21	23.16	23.02		
5	16QAM	1	0	23.10	23.36	23.32	23.30	23.08	24	1
5	16QAM	1	12	22.99	23.09	23.15	23.04	23.04		
5	16QAM	1	24	23.11	23.13	23.22	23.16	23.12		
5	16QAM	12	0	22.00	22.12	22.25	22.17	21.99	23	2
5	16QAM	12	7	21.90	22.00	22.17	22.02	22.00		
5	16QAM	12	13	22.05	22.07	22.25	22.20	22.08		
5	16QAM	25	0	22.09	22.12	22.32	22.11	22.14		
5	64QAM	1	0	21.86	21.89	21.95	21.81	21.80	23	2
5	64QAM	1	12	21.76	21.87	21.97	21.93	21.79		
5	64QAM	1	24	21.95	22.00	22.03	22.01	21.92		
5	64QAM	12	0	21.11	21.23	21.32	21.20	21.07	22	3
5	64QAM	12	7	20.92	21.01	21.10	20.96	20.92		
5	64QAM	12	13	21.04	21.08	21.13	21.04	20.86		
5	64QAM	25	0	21.22	21.29	21.32	21.27	21.23		



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Band 42								
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	24	0
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	23.31	23.44	23.26		
20	QPSK	1	49	23.22	23.43	23.24	23	1
20	QPSK	1	99	23.29	23.29	23.31		
20	QPSK	50	0	22.43	22.58	22.47		
20	QPSK	50	24	22.57	22.35	22.51	23	1
20	QPSK	50	50	22.41	22.47	22.40		
20	QPSK	100	0	22.50	22.56	22.41		
20	16QAM	1	0	22.39	22.43	22.22	23	1
20	16QAM	1	49	22.47	22.38	22.46		
20	16QAM	1	99	22.33	22.31	22.46		
20	16QAM	50	0	21.43	21.54	21.36	22	2
20	16QAM	50	24	21.35	21.44	21.41		
20	16QAM	50	50	21.40	21.37	21.46		
20	16QAM	100	0	21.34	21.29	21.40	22	2
20	64QAM	1	0	21.29	21.59	21.45		
20	64QAM	1	49	21.22	21.37	21.21		
20	64QAM	1	99	21.22	21.32	21.42	21	3
20	64QAM	50	0	20.39	20.41	20.34		
20	64QAM	50	24	20.45	20.27	20.35		
20	64QAM	50	50	20.37	20.39	20.28	21	3
20	64QAM	100	0	20.29	20.32	20.21		
Channel				42165	42590	43015		
Frequency (MHz)				3457.5	3500	3542.5		
15	QPSK	1	0	23.26	23.38	23.09		
15	QPSK	1	37	23.17	23.26	23.18	23	1
15	QPSK	1	74	23.18	23.15	23.29		
15	QPSK	36	0	22.38	22.53	22.40		
15	QPSK	36	20	22.49	22.19	22.44	23	1
15	QPSK	36	39	22.36	22.35	22.34		
15	QPSK	75	0	22.47	22.42	22.31		
15	16QAM	1	0	22.32	22.39	22.08	23	1
15	16QAM	1	37	22.32	22.27	22.40		
15	16QAM	1	74	22.26	22.24	22.43		
15	16QAM	36	0	21.38	21.49	21.29	22	2
15	16QAM	36	20	21.22	21.39	21.38		
15	16QAM	36	39	21.31	21.33	21.29		
15	16QAM	75	0	21.17	21.19	21.25	22	2
15	64QAM	1	0	21.17	21.51	21.40		
15	64QAM	1	37	21.12	21.29	21.04		
15	64QAM	1	74	21.15	21.23	21.34	21	3
15	64QAM	36	0	20.21	20.24	20.32		
15	64QAM	36	20	20.34	20.12	20.19		
15	64QAM	36	39	20.34	20.34	20.17	21	3
15	64QAM	75	0	20.14	20.17	20.16		
Channel				42140	42590	43040		
Frequency (MHz)				3455	3500	3545		
10	QPSK	1	0	23.19	23.40	23.21		
10	QPSK	1	25	23.18	23.28	23.13	23	1
10	QPSK	1	49	23.13	23.25	23.23		
10	QPSK	25	0	22.38	22.51	22.38		



10	QPSK	25	12	22.52	22.19	22.46		
10	QPSK	25	25	22.28	22.35	22.32		
10	QPSK	50	0	22.34	22.53	22.39		
10	16QAM	1	0	22.29	22.28	22.17	23	1
10	16QAM	1	25	22.37	22.32	22.30		
10	16QAM	1	49	22.27	22.29	22.32		
10	16QAM	25	0	21.36	21.41	21.26	22	2
10	16QAM	25	12	21.25	21.35	21.38		
10	16QAM	25	25	21.22	21.30	21.39		
10	16QAM	50	0	21.29	21.26	21.34		
10	64QAM	1	0	21.20	21.43	21.34	22	2
10	64QAM	1	25	21.13	21.19	21.14		
10	64QAM	1	49	21.07	21.16	21.27		
10	64QAM	25	0	20.33	20.38	20.31	21	3
10	64QAM	25	12	20.35	20.19	20.24		
10	64QAM	25	25	20.30	20.24	20.26		
10	64QAM	50	0	20.22	20.21	20.11		
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3452.5	3500	3547.5		
5	QPSK	1	0	23.13	23.32	23.18	24	0
5	QPSK	1	12	23.15	23.31	23.19		
5	QPSK	1	24	23.20	23.20	23.18		
5	QPSK	12	0	22.33	22.51	22.40	23	1
5	QPSK	12	7	22.40	22.21	22.33		
5	QPSK	12	13	22.36	22.39	22.32		
5	QPSK	25	0	22.47	22.41	22.34		
5	16QAM	1	0	22.25	22.28	22.05	23	1
5	16QAM	1	12	22.43	22.22	22.41		
5	16QAM	1	24	22.23	22.15	22.41		
5	16QAM	12	0	21.34	21.51	21.31	22	2
5	16QAM	12	7	21.20	21.31	21.32		
5	16QAM	12	13	21.37	21.32	21.32		
5	16QAM	25	0	21.19	21.11	21.38		
5	64QAM	1	0	21.23	21.42	21.37	22	2
5	64QAM	1	12	21.16	21.34	21.16		
5	64QAM	1	24	21.19	21.28	21.30		
5	64QAM	12	0	20.34	20.26	20.31	21	3
5	64QAM	12	7	20.27	20.17	20.21		
5	64QAM	12	13	20.20	20.30	20.11		
5	64QAM	25	0	20.24	20.20	20.04		



Reduced Power Mode for DSI 0

Ant0

Band 38								
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	22.98	23.17	22.92		
20	QPSK	1	49	22.97	23.05	22.92		
20	QPSK	1	99	23.01	22.91	22.94		
20	QPSK	50	0	22.11	22.24	22.08	23	1
20	QPSK	50	24	22.20	22.02	22.21		
20	QPSK	50	50	22.17	22.19	22.09		
20	QPSK	100	0	22.14	22.20	21.97	23	1
20	16QAM	1	0	22.12	22.04	21.95		
20	16QAM	1	49	22.09	22.19	22.01		
20	16QAM	1	99	22.08	21.91	22.13	22	2
20	16QAM	50	0	21.23	21.23	21.16		
20	16QAM	50	24	21.00	20.98	21.04		
20	16QAM	50	50	21.16	21.00	21.07	22	2
20	16QAM	100	0	20.96	21.08	21.05		
20	64QAM	1	0	20.97	21.15	21.03		
20	64QAM	1	49	21.00	21.08	21.00	22	2
20	64QAM	1	99	20.94	20.96	20.99		
20	64QAM	50	0	20.11	20.16	20.04		
20	64QAM	50	24	20.22	20.06	20.02	21	3
20	64QAM	50	50	20.03	20.03	19.84		
20	64QAM	100	0	20.03	20.11	19.84		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.91	23.11	22.85		
15	QPSK	1	37	22.80	22.87	22.87		
15	QPSK	1	74	22.85	22.80	22.76		
15	QPSK	36	0	22.07	22.08	22.00	23	1
15	QPSK	36	20	22.05	21.97	22.11		
15	QPSK	36	39	22.09	22.12	21.94		
15	QPSK	75	0	22.04	22.08	21.93	23	1
15	16QAM	1	0	21.98	21.89	21.78		
15	16QAM	1	37	21.97	22.15	21.88		
15	16QAM	1	74	21.95	21.89	21.99	22	2
15	16QAM	36	0	21.11	21.18	21.05		
15	16QAM	36	20	20.97	20.81	20.99		
15	16QAM	36	39	21.04	20.87	20.97	22	2
15	16QAM	75	0	20.90	20.99	20.90		
15	64QAM	1	0	20.88	21.13	20.92		
15	64QAM	1	37	20.83	20.99	20.86	22	2
15	64QAM	1	74	20.87	20.90	20.87		
15	64QAM	36	0	20.03	20.01	19.90		
15	64QAM	36	20	20.15	19.99	19.99	21	3
15	64QAM	36	39	19.98	19.97	19.78		
15	64QAM	75	0	19.91	20.01	19.79		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.85	23.06	22.83		
10	QPSK	1	25	22.86	22.93	22.84		



10	QPSK	1	49	22.86	22.82	22.87		
10	QPSK	25	0	22.05	22.06	21.94	23	1
10	QPSK	25	12	22.12	21.85	22.07		
10	QPSK	25	25	21.99	22.06	21.91		
10	QPSK	50	0	21.96	22.13	21.95		
10	16QAM	1	0	22.07	21.92	21.91	23	1
10	16QAM	1	25	21.95	22.04	21.86		
10	16QAM	1	49	21.97	21.79	21.97		
10	16QAM	25	0	21.17	21.11	21.14	22	2
10	16QAM	25	12	20.97	20.83	20.87		
10	16QAM	25	25	21.00	20.88	20.97		
10	16QAM	50	0	20.86	21.01	21.01		
10	64QAM	1	0	20.81	21.10	20.93	22	2
10	64QAM	1	25	20.96	20.93	20.93		
10	64QAM	1	49	20.80	20.92	20.91		
10	64QAM	25	0	20.06	20.05	19.99	21	3
10	64QAM	25	12	20.10	20.02	19.90		
10	64QAM	25	25	19.99	20.00	19.79		
10	64QAM	50	0	19.86	20.01	19.69		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	22.83	23.03	22.82	24	0
5	QPSK	1	12	22.81	22.90	22.85		
5	QPSK	1	24	22.98	22.87	22.88		
5	QPSK	12	0	21.99	22.12	21.93	23	1
5	QPSK	12	7	22.11	21.88	22.13		
5	QPSK	12	13	22.06	22.03	21.93		
5	QPSK	25	0	22.03	22.06	21.81		
5	16QAM	1	0	22.00	22.01	21.92	23	1
5	16QAM	1	12	22.02	22.13	21.85		
5	16QAM	1	24	21.95	21.85	21.97		
5	16QAM	12	0	21.12	21.10	21.11	22	2
5	16QAM	12	7	20.86	20.91	20.92		
5	16QAM	12	13	21.04	20.87	20.98		
5	16QAM	25	0	20.87	20.93	21.03		
5	64QAM	1	0	20.86	21.09	20.96	22	2
5	64QAM	1	12	20.88	20.95	20.96		
5	64QAM	1	24	20.85	20.78	20.92		
5	64QAM	12	0	19.98	20.05	19.99	21	3
5	64QAM	12	7	20.08	19.95	19.85		
5	64QAM	12	13	19.94	20.00	19.71		
5	64QAM	25	0	19.93	20.05	19.72		



Ant2

Band 41												
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	25	0		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	24.72	24.82	24.99	24.92	24.91				
20	QPSK	1	49	24.73	24.83	24.94	24.83	24.91	24	1		
20	QPSK	1	99	24.62	24.76	24.84	24.73	24.75				
20	QPSK	50	0	23.91	23.92	23.93	23.96	23.62				
20	QPSK	50	24	23.76	23.87	23.97	23.83	23.97	24	1		
20	QPSK	50	50	23.74	23.82	23.92	23.87	23.95				
20	QPSK	100	0	23.82	23.90	24.00	23.91	23.96				
20	16QAM	1	0	23.90	23.91	23.96	23.97	23.91	24	1		
20	16QAM	1	49	23.76	23.90	23.97	23.84	23.85				
20	16QAM	1	99	23.87	23.99	23.98	23.98	23.97				
20	16QAM	50	0	22.88	22.93	22.97	22.89	22.60	23	2		
20	16QAM	50	24	22.74	22.82	22.94	22.88	22.56				
20	16QAM	50	50	22.84	22.88	22.91	22.92	22.63				
20	16QAM	100	0	22.86	22.96	22.92	22.91	22.73	23	2		
20	64QAM	1	0	22.65	22.66	22.77	22.61	22.67				
20	64QAM	1	49	22.58	22.72	22.81	22.74	22.41				
20	64QAM	1	99	22.71	22.79	22.90	22.78	22.53	22	3		
20	64QAM	50	0	21.88	21.96	21.91	21.92	21.67				
20	64QAM	50	24	21.71	21.85	21.91	21.75	21.51				
20	64QAM	50	50	21.75	21.88	21.96	21.82	21.50	22	3		
20	64QAM	100	0	21.97	21.96	21.91	21.65	21.77				
Channel				39725	40173	40620	41068	41515			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	25.00	0		
15	QPSK	1	0	23.89	24.01	24.24	24.06	23.83				
15	QPSK	1	37	23.91	23.98	24.08	24.01	23.82				
15	QPSK	1	74	23.83	23.95	24.00	23.95	23.77	24	1		
15	QPSK	36	0	23.13	23.15	23.21	23.09	23.04				
15	QPSK	36	20	22.99	23.05	23.18	23.00	22.97				
15	QPSK	36	39	22.98	23.10	23.13	23.13	22.94	24	1		
15	QPSK	75	0	23.00	23.18	23.19	23.16	22.98				
15	16QAM	1	0	23.11	23.25	23.37	23.27	23.12				
15	16QAM	1	37	22.92	23.11	23.21	23.06	22.94	24	1		
15	16QAM	1	74	23.04	23.13	23.26	23.16	23.03				
15	16QAM	36	0	22.03	22.17	22.23	22.15	22.02				
15	16QAM	36	20	21.94	22.01	22.16	22.11	22.02	23	2		
15	16QAM	36	39	22.05	22.15	22.20	22.14	22.08				
15	16QAM	75	0	22.07	22.17	22.29	22.12	22.16				
15	64QAM	1	0	21.85	21.93	21.93	21.84	21.74	23	2		
15	64QAM	1	37	21.76	21.87	21.95	22.01	21.86				
15	64QAM	1	74	21.91	21.98	22.03	22.04	21.94				
15	64QAM	36	0	21.05	21.11	21.33	21.15	21.09	22	3		
15	64QAM	36	20	20.91	20.98	21.06	21.00	20.88				
15	64QAM	36	39	20.99	21.01	21.15	21.00	20.97				
15	64QAM	75	0	21.14	21.19	21.37	21.25	21.20	22	3		
Channel				39700	40160	40620	41080	41540			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	23.89	24.10	24.27	24.09	23.82	25.00	0		
10	QPSK	1	25	23.99	24.05	24.12	24.07	23.88				
10	QPSK	1	49	23.87	23.98	23.99	23.94	23.80				



10	QPSK	25	0	23.12	23.08	23.24	23.17	23.04	24	1
10	QPSK	25	12	22.93	23.06	23.16	22.99	22.95		
10	QPSK	25	25	22.97	23.09	23.13	23.07	23.00		
10	QPSK	50	0	22.99	23.14	23.26	23.16	22.99		
10	16QAM	1	0	23.19	23.32	23.35	23.27	23.17	24	1
10	16QAM	1	25	22.94	23.16	23.20	23.05	23.00		
10	16QAM	1	49	23.08	23.15	23.29	23.20	23.08		
10	16QAM	25	0	22.04	22.11	22.24	22.07	22.00	23	2
10	16QAM	25	12	21.92	22.09	22.12	22.02	21.93		
10	16QAM	25	25	22.11	22.16	22.25	22.17	22.03		
10	16QAM	50	0	22.11	22.17	22.28	22.21	22.16		
10	64QAM	1	0	21.78	21.91	21.94	21.74	21.79	23	2
10	64QAM	1	25	21.85	21.93	22.02	22.02	21.76		
10	64QAM	1	49	21.87	21.96	22.04	22.02	21.91		
10	64QAM	25	0	21.07	21.15	21.23	21.11	21.06	22	3
10	64QAM	25	12	20.87	21.05	21.09	20.99	20.90		
10	64QAM	25	25	21.02	21.09	21.19	21.06	20.87		
10	64QAM	50	0	21.14	21.24	21.27	21.28	21.18		
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	23.89	24.09	24.25	24.09	23.87	25.00	0
5	QPSK	1	12	23.91	24.00	24.07	24.06	23.88		
5	QPSK	1	24	23.85	23.93	24.06	23.91	23.80		
5	QPSK	12	0	23.11	23.12	23.18	23.17	23.07	24	1
5	QPSK	12	7	23.00	23.04	23.15	23.01	22.95		
5	QPSK	12	13	22.95	23.08	23.06	23.11	22.97		
5	QPSK	25	0	23.00	23.17	23.21	23.16	23.02		
5	16QAM	1	0	23.10	23.36	23.32	23.30	23.08	24	1
5	16QAM	1	12	22.99	23.09	23.15	23.04	23.04		
5	16QAM	1	24	23.11	23.13	23.22	23.16	23.12		
5	16QAM	12	0	22.00	22.12	22.25	22.17	21.99	23	2
5	16QAM	12	7	21.90	22.00	22.17	22.02	22.00		
5	16QAM	12	13	22.05	22.07	22.25	22.20	22.08		
5	16QAM	25	0	22.09	22.12	22.32	22.11	22.14		
5	64QAM	1	0	21.86	21.89	21.95	21.81	21.80	23	2
5	64QAM	1	12	21.76	21.87	21.97	21.93	21.79		
5	64QAM	1	24	21.95	22.00	22.03	22.01	21.92		
5	64QAM	12	0	21.11	21.23	21.32	21.20	21.07	22	3
5	64QAM	12	7	20.92	21.01	21.10	20.96	20.92		
5	64QAM	12	13	21.04	21.08	21.13	21.04	20.86		
5	64QAM	25	0	21.22	21.29	21.32	21.27	21.23		



Ant 3

Band 42								
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	24	0
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	23.31	23.46	23.44		
20	QPSK	1	49	23.22	23.43	23.24	23	1
20	QPSK	1	99	23.29	23.29	23.31		
20	QPSK	50	0	22.43	22.58	22.47		
20	QPSK	50	24	22.57	22.35	22.51	23	1
20	QPSK	50	50	22.41	22.47	22.40		
20	QPSK	100	0	22.50	22.56	22.41		
20	16QAM	1	0	22.39	22.43	22.22	23	1
20	16QAM	1	49	22.47	22.38	22.46		
20	16QAM	1	99	22.33	22.31	22.46		
20	16QAM	50	0	21.43	21.54	21.36	22	2
20	16QAM	50	24	21.35	21.44	21.41		
20	16QAM	50	50	21.40	21.37	21.46		
20	16QAM	100	0	21.34	21.29	21.40	22	2
20	64QAM	1	0	21.29	21.59	21.45		
20	64QAM	1	49	21.22	21.37	21.21		
20	64QAM	1	99	21.22	21.32	21.42	21	3
20	64QAM	50	0	20.39	20.41	20.34		
20	64QAM	50	24	20.45	20.27	20.35		
20	64QAM	50	50	20.37	20.39	20.28	21	3
20	64QAM	100	0	20.29	20.32	20.21		
Channel				42165	42590	43015		
Frequency (MHz)				3457.5	3500	3542.5		
15	QPSK	1	0	23.26	23.38	23.09		
15	QPSK	1	37	23.17	23.26	23.18	23	1
15	QPSK	1	74	23.18	23.15	23.29		
15	QPSK	36	0	22.38	22.53	22.40		
15	QPSK	36	20	22.49	22.19	22.44	23	1
15	QPSK	36	39	22.36	22.35	22.34		
15	QPSK	75	0	22.47	22.42	22.31		
15	16QAM	1	0	22.32	22.39	22.08	23	1
15	16QAM	1	37	22.32	22.27	22.40		
15	16QAM	1	74	22.26	22.24	22.43		
15	16QAM	36	0	21.38	21.49	21.29	22	2
15	16QAM	36	20	21.22	21.39	21.38		
15	16QAM	36	39	21.31	21.33	21.29		
15	16QAM	75	0	21.17	21.19	21.25	22	2
15	64QAM	1	0	21.17	21.51	21.40		
15	64QAM	1	37	21.12	21.29	21.04		
15	64QAM	1	74	21.15	21.23	21.34	21	3
15	64QAM	36	0	20.21	20.24	20.32		
15	64QAM	36	20	20.34	20.12	20.19		
15	64QAM	36	39	20.34	20.34	20.17	21	3
15	64QAM	75	0	20.14	20.17	20.16		
Channel				42140	42590	43040		
Frequency (MHz)				3455	3500	3545		
10	QPSK	1	0	23.19	23.40	23.21		
10	QPSK	1	25	23.18	23.28	23.13	24	0
10	QPSK	1	49	23.13	23.25	23.23		
10	QPSK	25	0	22.38	22.51	22.38		



10	QPSK	25	12	22.52	22.19	22.46		
10	QPSK	25	25	22.28	22.35	22.32		
10	QPSK	50	0	22.34	22.53	22.39		
10	16QAM	1	0	22.29	22.28	22.17	23	1
10	16QAM	1	25	22.37	22.32	22.30		
10	16QAM	1	49	22.27	22.29	22.32		
10	16QAM	25	0	21.36	21.41	21.26	22	2
10	16QAM	25	12	21.25	21.35	21.38		
10	16QAM	25	25	21.22	21.30	21.39		
10	16QAM	50	0	21.29	21.26	21.34		
10	64QAM	1	0	21.20	21.43	21.34	22	2
10	64QAM	1	25	21.13	21.19	21.14		
10	64QAM	1	49	21.07	21.16	21.27		
10	64QAM	25	0	20.33	20.38	20.31	21	3
10	64QAM	25	12	20.35	20.19	20.24		
10	64QAM	25	25	20.30	20.24	20.26		
10	64QAM	50	0	20.22	20.21	20.11		
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3452.5	3500	3547.5		
5	QPSK	1	0	23.13	23.32	23.18	24	0
5	QPSK	1	12	23.15	23.31	23.19		
5	QPSK	1	24	23.20	23.20	23.18		
5	QPSK	12	0	22.33	22.51	22.40	23	1
5	QPSK	12	7	22.40	22.21	22.33		
5	QPSK	12	13	22.36	22.39	22.32		
5	QPSK	25	0	22.47	22.41	22.34		
5	16QAM	1	0	22.25	22.28	22.05	23	1
5	16QAM	1	12	22.43	22.22	22.41		
5	16QAM	1	24	22.23	22.15	22.41		
5	16QAM	12	0	21.34	21.51	21.31	22	2
5	16QAM	12	7	21.20	21.31	21.32		
5	16QAM	12	13	21.37	21.32	21.32		
5	16QAM	25	0	21.19	21.11	21.38		
5	64QAM	1	0	21.23	21.42	21.37	22	2
5	64QAM	1	12	21.16	21.34	21.16		
5	64QAM	1	24	21.19	21.28	21.30		
5	64QAM	12	0	20.34	20.26	20.31	21	3
5	64QAM	12	7	20.27	20.17	20.21		
5	64QAM	12	13	20.20	20.30	20.11		
5	64QAM	25	0	20.24	20.20	20.04		



Reduced Power Mode for DSI 1

Ant0

Band 38										
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	16.90	16.93	16.76				
20	QPSK	1	49	16.73	16.83	16.69	18.1	0		
20	QPSK	1	99	16.69	16.86	16.76				
20	QPSK	50	0	16.80	16.88	16.85				
20	QPSK	50	24	16.77	16.86	16.83	18.1	0		
20	QPSK	50	50	16.74	16.87	16.77				
20	QPSK	100	0	16.73	16.87	16.70				
20	16QAM	1	0	16.66	16.85	16.74	18.1	0		
20	16QAM	1	49	16.69	16.79	16.66				
20	16QAM	1	99	16.66	16.79	16.78				
20	16QAM	50	0	16.79	16.84	16.76	18.1	0		
20	16QAM	50	24	16.79	16.86	16.78				
20	16QAM	50	50	16.70	16.77	16.69				
20	16QAM	100	0	16.62	16.75	16.72	18.1	0		
20	64QAM	1	0	16.73	16.83	16.74				
20	64QAM	1	49	16.62	16.80	16.60				
20	64QAM	1	99	16.75	16.80	16.70	18.1	0		
20	64QAM	50	0	16.78	16.86	16.73				
20	64QAM	50	24	16.71	16.73	16.76				
20	64QAM	50	50	16.82	16.78	16.77	18.1	0		
20	64QAM	100	0	16.68	16.85	16.73				
Channel				37825	38000	38175			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5	18.1	0		
15	QPSK	1	0	16.78	16.82	16.66				
15	QPSK	1	37	16.64	16.69	16.56				
15	QPSK	1	74	16.61	16.79	16.64	18.1	0		
15	QPSK	36	0	16.72	16.76	16.73				
15	QPSK	36	20	16.65	16.74	16.70				
15	QPSK	36	39	16.59	16.78	16.69	18.1	0		
15	QPSK	75	0	16.65	16.78	16.62				
15	16QAM	1	0	16.53	16.77	16.65				
15	16QAM	1	37	16.58	16.65	16.52	18.1	0		
15	16QAM	1	74	16.53	16.72	16.70				
15	16QAM	36	0	16.71	16.75	16.67				
15	16QAM	36	20	16.69	16.71	16.71	18.1	0		
15	16QAM	36	39	16.61	16.68	16.62				
15	16QAM	75	0	16.51	16.60	16.64				
15	64QAM	1	0	16.59	16.68	16.60	18.1	0		
15	64QAM	1	37	16.51	16.68	16.52				
15	64QAM	1	74	16.64	16.66	16.62				
15	64QAM	36	0	16.63	16.78	16.64	18.1	0		
15	64QAM	36	20	16.63	16.61	16.68				
15	64QAM	36	39	16.74	16.67	16.66				
15	64QAM	75	0	16.61	16.72	16.61	18.1	0		
Channel				37800	38000	38200			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	16.83	16.88	16.73	18.1	0		
10	QPSK	1	25	16.67	16.74	16.61				



10	QPSK	1	49	16.67	16.78	16.67		
10	QPSK	25	0	16.77	16.80	16.84	18.1	0
10	QPSK	25	12	16.71	16.84	16.80		
10	QPSK	25	25	16.73	16.83	16.72		
10	QPSK	50	0	16.65	16.85	16.66		
10	16QAM	1	0	16.60	16.83	16.65	18.1	0
10	16QAM	1	25	16.65	16.71	16.58		
10	16QAM	1	49	16.64	16.72	16.75		
10	16QAM	25	0	16.71	16.76	16.71	18.1	0
10	16QAM	25	12	16.72	16.83	16.76		
10	16QAM	25	25	16.67	16.70	16.61		
10	16QAM	50	0	16.57	16.71	16.65		
10	64QAM	1	0	16.69	16.82	16.67	18.1	0
10	64QAM	1	25	16.55	16.72	16.55		
10	64QAM	1	49	16.74	16.76	16.67		
10	64QAM	25	0	16.75	16.78	16.64	18.1	0
10	64QAM	25	12	16.65	16.71	16.69		
10	64QAM	25	25	16.80	16.70	16.72		
10	64QAM	50	0	16.66	16.77	16.66		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	16.80	16.87	16.68	18.1	0
5	QPSK	1	12	16.64	16.77	16.62		
5	QPSK	1	24	16.63	16.80	16.66		
5	QPSK	12	0	16.70	16.82	16.73	18.1	0
5	QPSK	12	7	16.65	16.80	16.74		
5	QPSK	12	13	16.63	16.76	16.71		
5	QPSK	25	0	16.65	16.80	16.59		
5	16QAM	1	0	16.59	16.74	16.67	18.1	0
5	16QAM	1	12	16.63	16.68	16.53		
5	16QAM	1	24	16.54	16.72	16.66		
5	16QAM	12	0	16.73	16.77	16.66	18.1	0
5	16QAM	12	7	16.73	16.76	16.72		
5	16QAM	12	13	16.63	16.70	16.57		
5	16QAM	25	0	16.55	16.62	16.64		
5	64QAM	1	0	16.67	16.78	16.61	18.1	0
5	64QAM	1	12	16.56	16.68	16.53		
5	64QAM	1	24	16.67	16.72	16.59		
5	64QAM	12	0	16.70	16.75	16.63	18.1	0
5	64QAM	12	7	16.65	16.63	16.70		
5	64QAM	12	13	16.76	16.70	16.64		
5	64QAM	25	0	16.59	16.76	16.60		



Ant2

Band 41										
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	18	0
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.17	17.30	17.48	17.39	17.11		
20	QPSK	1	49	17.11	17.27	17.44	17.35	17.16	18	0
20	QPSK	1	99	17.14	17.22	17.39	17.25	17.10		
20	QPSK	50	0	17.11	17.22	17.45	17.39	17.21		
20	QPSK	50	24	17.16	17.11	17.39	17.30	17.14	18	0
20	QPSK	50	50	17.10	17.14	17.34	17.20	17.09		
20	QPSK	100	0	17.18	17.25	17.42	17.32	17.15		
20	16QAM	1	0	17.02	17.09	17.33	17.18	17.06	18	0
20	16QAM	1	49	17.13	17.16	17.38	17.33	17.08		
20	16QAM	1	99	17.04	17.04	17.31	17.25	17.05		
20	16QAM	50	0	17.08	17.12	17.35	17.22	17.00	18	0
20	16QAM	50	24	17.07	17.13	17.36	17.29	17.10		
20	16QAM	50	50	17.08	17.09	17.34	17.22	17.03		
20	16QAM	100	0	17.04	17.20	17.38	17.35	17.08	18	0
20	64QAM	1	0	17.11	17.16	17.41	17.29	17.11		
20	64QAM	1	49	17.08	17.18	17.37	17.24	17.12		
20	64QAM	1	99	17.14	17.20	17.40	17.34	17.11	18	0
20	64QAM	50	0	17.04	17.12	17.36	17.28	17.06		
20	64QAM	50	24	17.15	17.06	17.34	17.24	17.09		
20	64QAM	50	50	17.02	17.10	17.35	17.29	17.01	18	0
20	64QAM	50	50	17.02	17.10	17.35	17.29	17.01		
20	64QAM	100	0	17.28	17.33	17.39	17.30	17.14		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	18.00	0
15	QPSK	1	0	17.07	17.27	17.44	17.26	17.00		
15	QPSK	1	37	17.07	17.18	17.33	17.20	17.06		
15	QPSK	1	74	17.05	17.08	17.33	17.16	16.99	18	0
15	QPSK	36	0	16.96	17.13	17.36	17.31	17.11		
15	QPSK	36	20	17.03	17.03	17.32	17.21	17.03		
15	QPSK	36	39	17.02	17.11	17.26	17.15	17.02	18	0
15	QPSK	75	0	17.06	17.17	17.33	17.21	17.11		
15	16QAM	1	0	16.89	16.96	17.21	17.04	16.92		
15	16QAM	1	37	16.99	17.10	17.34	17.22	17.00	18	0
15	16QAM	1	74	16.99	16.95	17.24	17.20	16.96		
15	16QAM	36	0	16.99	17.08	17.25	17.09	16.91		
15	16QAM	36	20	17.01	17.00	17.27	17.17	16.96	18	0
15	16QAM	36	39	17.05	16.96	17.29	17.09	16.94		
15	16QAM	75	0	16.96	17.11	17.28	17.22	17.02		
15	64QAM	1	0	16.98	17.11	17.28	17.17	16.97	18	0
15	64QAM	1	37	16.94	17.03	17.32	17.16	17.03		
15	64QAM	1	74	17.10	17.14	17.31	17.20	17.07		
15	64QAM	36	0	16.93	17.06	17.32	17.21	17.00	18	0
15	64QAM	36	20	17.11	17.00	17.26	17.10	16.96		
15	64QAM	36	39	16.93	17.05	17.22	17.16	16.94		
15	64QAM	75	0	17.15	17.29	17.30	17.19	17.08	18.00	0
10	QPSK	1	0	17.06	17.25	17.41	17.31	17.02		
10	QPSK	1	25	17.08	17.20	17.40	17.25	17.05		
10	QPSK	1	49	17.07	17.13	17.34	17.12	17.03	18.00	0
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		



10	QPSK	25	0	17.06	17.10	17.30	17.28	17.15	18	0
10	QPSK	25	12	17.12	17.02	17.32	17.21	17.08		
10	QPSK	25	25	16.96	17.03	17.19	17.11	17.01		
10	QPSK	50	0	17.09	17.10	17.29	17.25	17.02		
10	16QAM	1	0	16.91	16.97	17.24	17.10	16.92	18	0
10	16QAM	1	25	17.09	17.10	17.33	17.19	16.98		
10	16QAM	1	49	16.93	16.97	17.17	17.10	16.91		
10	16QAM	25	0	16.96	17.02	17.32	17.09	16.86	18	0
10	16QAM	25	12	17.03	17.08	17.30	17.15	17.02		
10	16QAM	25	25	17.00	17.05	17.29	17.08	16.96		
10	16QAM	50	0	16.96	17.12	17.25	17.32	17.00		
10	64QAM	1	0	17.06	17.11	17.27	17.19	17.03	18	0
10	64QAM	1	25	16.95	17.09	17.33	17.11	17.09		
10	64QAM	1	49	17.02	17.06	17.31	17.30	17.08		
10	64QAM	25	0	16.95	16.99	17.26	17.25	16.97	18	0
10	64QAM	25	12	17.10	17.01	17.23	17.19	17.01		
10	64QAM	25	25	16.90	17.05	17.21	17.24	16.94		
10	64QAM	50	0	17.24	17.19	17.26	17.24	17.09		
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	17.12	17.24	17.35	17.33	16.99	18.00	0
5	QPSK	1	12	17.02	17.21	17.38	17.30	17.13		
5	QPSK	1	24	16.99	17.14	17.34	17.13	16.95		
5	QPSK	12	0	17.01	17.14	17.41	17.25	17.12	18	0
5	QPSK	12	7	17.06	17.06	17.27	17.18	17.00		
5	QPSK	12	13	16.98	17.08	17.29	17.14	17.02		
5	QPSK	25	0	17.10	17.19	17.36	17.19	17.02		
5	16QAM	1	0	16.91	17.01	17.20	17.05	16.96	18	0
5	16QAM	1	12	16.99	17.11	17.27	17.19	16.96		
5	16QAM	1	24	16.92	16.96	17.23	17.11	16.92		
5	16QAM	12	0	17.03	17.00	17.24	17.12	16.90	18	0
5	16QAM	12	7	16.95	17.05	17.28	17.23	16.96		
5	16QAM	12	13	16.95	17.02	17.22	17.14	16.99		
5	16QAM	25	0	16.95	17.10	17.26	17.21	17.00		
5	64QAM	1	0	17.06	17.06	17.31	17.20	17.04	18	0
5	64QAM	1	12	16.95	17.13	17.34	17.14	17.02		
5	64QAM	1	24	17.00	17.11	17.34	17.26	17.00		
5	64QAM	12	0	17.01	17.09	17.32	17.25	17.00	18	0
5	64QAM	12	7	17.05	16.94	17.26	17.12	16.95		
5	64QAM	12	13	16.99	16.99	17.24	17.21	16.89		
5	64QAM	25	0	17.18	17.25	17.27	17.23	17.03		



Ant 3

Band 42 FCC										
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	19.5	0		
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	18.83	18.89	18.80				
20	QPSK	1	49	18.62	18.76	18.67	19.5	0		
20	QPSK	1	99	18.62	18.71	18.67				
20	QPSK	50	0	18.75	18.86	18.77				
20	QPSK	50	24	18.77	18.84	18.73	19.5	0		
20	QPSK	50	50	18.66	18.77	18.71				
20	QPSK	100	0	18.69	18.83	18.69				
20	16QAM	1	0	18.65	18.78	18.65	19.5	0		
20	16QAM	1	49	18.76	18.81	18.71				
20	16QAM	1	99	18.60	18.74	18.59				
20	16QAM	50	0	18.66	18.80	18.76	19.5	0		
20	16QAM	50	24	18.65	18.75	18.62				
20	16QAM	50	50	18.56	18.71	18.58				
20	16QAM	100	0	18.77	18.82	18.70	19.5	0		
20	64QAM	1	0	18.68	18.79	18.75				
20	64QAM	1	49	18.62	18.67	18.60				
20	64QAM	1	99	18.69	18.74	18.66	19.5	0		
20	64QAM	50	0	18.69	18.82	18.68				
20	64QAM	50	24	18.70	18.76	18.64				
20	64QAM	50	50	18.62	18.71	18.57	19.5	0		
20	64QAM	100	0	18.65	18.80	18.67				
Channel				42165	42590	43015			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500	3542.5	19.5	0		
15	QPSK	1	0	18.76	18.84	18.73				
15	QPSK	1	37	18.52	18.69	18.62				
15	QPSK	1	74	18.57	18.61	18.62	19.5	0		
15	QPSK	36	0	18.62	18.75	18.63				
15	QPSK	36	20	18.63	18.80	18.63				
15	QPSK	36	39	18.51	18.64	18.66	19.5	0		
15	QPSK	75	0	18.59	18.76	18.57				
15	16QAM	1	0	18.52	18.71	18.56				
15	16QAM	1	37	18.66	18.77	18.68	19.5	0		
15	16QAM	1	74	18.49	18.70	18.52				
15	16QAM	36	0	18.56	18.74	18.70				
15	16QAM	36	20	18.57	18.63	18.54	19.5	0		
15	16QAM	36	39	18.44	18.62	18.52				
15	16QAM	75	0	18.67	18.73	18.59				
15	64QAM	1	0	18.58	18.66	18.65	19.5	0		
15	64QAM	1	37	18.54	18.55	18.54				
15	64QAM	1	74	18.65	18.60	18.53				
15	64QAM	36	0	18.66	18.67	18.62	19.5	0		
15	64QAM	36	20	18.55	18.63	18.55				
15	64QAM	36	39	18.50	18.58	18.43				
15	64QAM	75	0	18.51	18.72	18.61	19.5	0		
Channel				42140	42590	43040			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455	3500	3545				
10	QPSK	1	0	18.75	18.85	18.73	19.5	0		
10	QPSK	1	25	18.52	18.71	18.61				
10	QPSK	1	49	18.49	18.57	18.53				
10	QPSK	25	0	18.61	18.78	18.69	19.5	0		



10	QPSK	25	12	18.63	18.77	18.63		
10	QPSK	25	25	18.63	18.73	18.66		
10	QPSK	50	0	18.59	18.78	18.55		
10	16QAM	1	0	18.57	18.68	18.54	19.5	0
10	16QAM	1	25	18.70	18.72	18.61		
10	16QAM	1	49	18.53	18.60	18.44		
10	16QAM	25	0	18.57	18.74	18.71	19.5	0
10	16QAM	25	12	18.61	18.71	18.54		
10	16QAM	25	25	18.48	18.65	18.46		
10	16QAM	50	0	18.74	18.75	18.63		
10	64QAM	1	0	18.56	18.66	18.65	19.5	0
10	64QAM	1	25	18.55	18.60	18.52		
10	64QAM	1	49	18.61	18.65	18.55		
10	64QAM	25	0	18.57	18.70	18.61	19.5	0
10	64QAM	25	12	18.58	18.65	18.59		
10	64QAM	25	25	18.50	18.66	18.50		
10	64QAM	50	0	18.54	18.76	18.52		
Channel				42115	42590	43065		
Frequency (MHz)				3452.5	3500	3547.5		
5	QPSK	1	0	18.72	18.75	18.69	19.5	0
5	QPSK	1	12	18.50	18.71	18.53		
5	QPSK	1	24	18.53	18.64	18.60		
5	QPSK	12	0	18.63	18.73	18.67	19.5	0
5	QPSK	12	7	18.68	18.69	18.65		
5	QPSK	12	13	18.53	18.68	18.59		
5	QPSK	25	0	18.61	18.74	18.60		
5	16QAM	1	0	18.53	18.69	18.57		
5	16QAM	1	12	18.72	18.77	18.67	19.5	0
5	16QAM	1	24	18.57	18.64	18.53		
5	16QAM	12	0	18.60	18.71	18.69		
5	16QAM	12	7	18.53	18.65	18.56	19.5	0
5	16QAM	12	13	18.51	18.60	18.48		
5	16QAM	25	0	18.69	18.69	18.61		
5	64QAM	1	0	18.59	18.70	18.69		
5	64QAM	1	12	18.50	18.62	18.51		
5	64QAM	1	24	18.56	18.61	18.58	19.5	0
5	64QAM	12	0	18.64	18.75	18.61		
5	64QAM	12	7	18.58	18.69	18.61		
5	64QAM	12	13	18.58	18.57	18.43		
5	64QAM	25	0	18.60	18.77	18.55		



Reduced Power Mode for DSI 2

Ant0

Band 38								
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	22.98	23.17	22.92		
20	QPSK	1	49	22.97	23.05	22.92		
20	QPSK	1	99	23.01	22.91	22.94		
20	QPSK	50	0	22.11	22.24	22.08	23	1
20	QPSK	50	24	22.20	22.02	22.21		
20	QPSK	50	50	22.17	22.19	22.09		
20	QPSK	100	0	22.14	22.20	21.97	23	1
20	16QAM	1	0	22.12	22.04	21.95		
20	16QAM	1	49	22.09	22.19	22.01		
20	16QAM	1	99	22.08	21.91	22.13	22	2
20	16QAM	50	0	21.23	21.23	21.16		
20	16QAM	50	24	21.00	20.98	21.04		
20	16QAM	50	50	21.16	21.00	21.07	22	2
20	16QAM	100	0	20.96	21.08	21.05		
20	64QAM	1	0	20.97	21.15	21.03		
20	64QAM	1	49	21.00	21.08	21.00	22	2
20	64QAM	1	99	20.94	20.96	20.99		
20	64QAM	50	0	20.11	20.16	20.04		
20	64QAM	50	24	20.22	20.06	20.02	21	3
20	64QAM	50	50	20.03	20.03	19.84		
20	64QAM	100	0	20.03	20.11	19.84		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.91	23.11	22.85		
15	QPSK	1	37	22.80	22.87	22.87		
15	QPSK	1	74	22.85	22.80	22.76		
15	QPSK	36	0	22.07	22.08	22.00	23	1
15	QPSK	36	20	22.05	21.97	22.11		
15	QPSK	36	39	22.09	22.12	21.94		
15	QPSK	75	0	22.04	22.08	21.93	23	1
15	16QAM	1	0	21.98	21.89	21.78		
15	16QAM	1	37	21.97	22.15	21.88		
15	16QAM	1	74	21.95	21.89	21.99	22	2
15	16QAM	36	0	21.11	21.18	21.05		
15	16QAM	36	20	20.97	20.81	20.99		
15	16QAM	36	39	21.04	20.87	20.97	22	2
15	16QAM	75	0	20.90	20.99	20.90		
15	64QAM	1	0	20.88	21.13	20.92		
15	64QAM	1	37	20.83	20.99	20.86	22	2
15	64QAM	1	74	20.87	20.90	20.87		
15	64QAM	36	0	20.03	20.01	19.90		
15	64QAM	36	20	20.15	19.99	19.99	21	3
15	64QAM	36	39	19.98	19.97	19.78		
15	64QAM	75	0	19.91	20.01	19.79		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.85	23.06	22.83		



10	QPSK	1	25	22.86	22.93	22.84		
10	QPSK	1	49	22.86	22.82	22.87		
10	QPSK	25	0	22.05	22.06	21.94	23	1
10	QPSK	25	12	22.12	21.85	22.07		
10	QPSK	25	25	21.99	22.06	21.91		
10	QPSK	50	0	21.96	22.13	21.95		
10	16QAM	1	0	22.07	21.92	21.91	23	1
10	16QAM	1	25	21.95	22.04	21.86		
10	16QAM	1	49	21.97	21.79	21.97		
10	16QAM	25	0	21.17	21.11	21.14	22	2
10	16QAM	25	12	20.97	20.83	20.87		
10	16QAM	25	25	21.00	20.88	20.97		
10	16QAM	50	0	20.86	21.01	21.01		
10	64QAM	1	0	20.81	21.10	20.93	22	2
10	64QAM	1	25	20.96	20.93	20.93		
10	64QAM	1	49	20.80	20.92	20.91		
10	64QAM	25	0	20.06	20.05	19.99	21	3
10	64QAM	25	12	20.10	20.02	19.90		
10	64QAM	25	25	19.99	20.00	19.79		
10	64QAM	50	0	19.86	20.01	19.69		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	22.83	23.03	22.82	24	0
5	QPSK	1	12	22.81	22.90	22.85		
5	QPSK	1	24	22.98	22.87	22.88		
5	QPSK	12	0	21.99	22.12	21.93	23	1
5	QPSK	12	7	22.11	21.88	22.13		
5	QPSK	12	13	22.06	22.03	21.93		
5	QPSK	25	0	22.03	22.06	21.81		
5	16QAM	1	0	22.00	22.01	21.92	23	1
5	16QAM	1	12	22.02	22.13	21.85		
5	16QAM	1	24	21.95	21.85	21.97		
5	16QAM	12	0	21.12	21.10	21.11	22	2
5	16QAM	12	7	20.86	20.91	20.92		
5	16QAM	12	13	21.04	20.87	20.98		
5	16QAM	25	0	20.87	20.93	21.03		
5	64QAM	1	0	20.86	21.09	20.96	22	2
5	64QAM	1	12	20.88	20.95	20.96		
5	64QAM	1	24	20.85	20.78	20.92		
5	64QAM	12	0	19.98	20.05	19.99	21	3
5	64QAM	12	7	20.08	19.95	19.85		
5	64QAM	12	13	19.94	20.00	19.71		
5	64QAM	25	0	19.93	20.05	19.72		



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Band 41										
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.03	24.14	24.32	24.20	23.97	25	0
20	QPSK	1	49	24.05	24.09	24.21	24.11	23.96		
20	QPSK	1	99	23.91	24.05	24.12	24.01	23.91		
20	QPSK	50	0	23.17	23.21	23.32	23.23	23.15	24	1
20	QPSK	50	24	23.07	23.15	23.26	23.11	23.07		
20	QPSK	50	50	23.01	23.14	23.20	23.16	23.05		
20	QPSK	100	0	23.11	23.23	23.31	23.25	23.07	24	1
20	16QAM	1	0	23.23	23.39	23.44	23.33	23.23		
20	16QAM	1	49	23.05	23.20	23.25	23.18	23.08		
20	16QAM	1	99	23.16	23.25	23.37	23.27	23.15	23	2
20	16QAM	50	0	22.14	22.26	22.34	22.20	22.10		
20	16QAM	50	24	22.00	22.13	22.22	22.16	22.06		
20	16QAM	50	50	22.16	22.22	22.31	22.23	22.13	23	2
20	16QAM	100	0	22.16	22.26	22.38	22.24	22.23		
20	64QAM	1	0	21.91	21.98	22.04	21.89	21.87		
20	64QAM	1	49	21.90	22.01	22.09	22.05	21.91	23	2
20	64QAM	1	99	21.98	22.10	22.16	22.11	22.03		
20	64QAM	50	0	21.17	21.26	21.38	21.25	21.17		
20	64QAM	50	24	20.97	21.13	21.21	21.07	21.01	22	3
20	64QAM	50	50	21.08	21.14	21.25	21.10	21.00		
20	64QAM	100	0	21.27	21.32	21.42	21.37	21.27		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.89	24.01	24.24	24.06	23.83	25.00	0
15	QPSK	1	37	23.91	23.98	24.08	24.01	23.82		
15	QPSK	1	74	23.83	23.95	24.00	23.95	23.77		
15	QPSK	36	0	23.13	23.15	23.21	23.09	23.04	24	1
15	QPSK	36	20	22.99	23.05	23.18	23.00	22.97		
15	QPSK	36	39	22.98	23.10	23.13	23.13	22.94		
15	QPSK	75	0	23.00	23.18	23.19	23.16	22.98	24	1
15	16QAM	1	0	23.11	23.25	23.37	23.27	23.12		
15	16QAM	1	37	22.92	23.11	23.21	23.06	22.94		
15	16QAM	1	74	23.04	23.13	23.26	23.16	23.03	23	2
15	16QAM	36	0	22.03	22.17	22.23	22.15	22.02		
15	16QAM	36	20	21.94	22.01	22.16	22.11	22.02		
15	16QAM	36	39	22.05	22.15	22.20	22.14	22.08	23	2
15	16QAM	75	0	22.07	22.17	22.29	22.12	22.16		
15	64QAM	1	0	21.85	21.93	21.93	21.84	21.74		
15	64QAM	1	37	21.76	21.87	21.95	22.01	21.86	23	2
15	64QAM	1	74	21.91	21.98	22.03	22.04	21.94		
15	64QAM	36	0	21.05	21.11	21.33	21.15	21.09		
15	64QAM	36	20	20.91	20.98	21.06	21.00	20.88	22	3
15	64QAM	36	39	20.99	21.01	21.15	21.00	20.97		
15	64QAM	75	0	21.14	21.19	21.37	21.25	21.20		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.89	24.10	24.27	24.09	23.82	25.00	0
10	QPSK	1	25	23.99	24.05	24.12	24.07	23.88		
10	QPSK	1	49	23.87	23.98	23.99	23.94	23.80		
10	QPSK	25	0	23.12	23.08	23.24	23.17	23.04	24	1
10	QPSK	25	12	22.93	23.06	23.16	22.99	22.95		
10	QPSK	25	25	22.97	23.09	23.13	23.07	23.00		



10	QPSK	50	0	22.99	23.14	23.26	23.16	22.99		
10	16QAM	1	0	23.19	23.32	23.35	23.27	23.17	24	1
10	16QAM	1	25	22.94	23.16	23.20	23.05	23.00		
10	16QAM	1	49	23.08	23.15	23.29	23.20	23.08		
10	16QAM	25	0	22.04	22.11	22.24	22.07	22.00	23	2
10	16QAM	25	12	21.92	22.09	22.12	22.02	21.93		
10	16QAM	25	25	22.11	22.16	22.25	22.17	22.03		
10	16QAM	50	0	22.11	22.17	22.28	22.21	22.16	23	2
10	64QAM	1	0	21.78	21.91	21.94	21.74	21.79		
10	64QAM	1	25	21.85	21.93	22.02	22.02	21.76		
10	64QAM	1	49	21.87	21.96	22.04	22.02	21.91	22	3
10	64QAM	25	0	21.07	21.15	21.23	21.11	21.06		
10	64QAM	25	12	20.87	21.05	21.09	20.99	20.90		
10	64QAM	25	25	21.02	21.09	21.19	21.06	20.87	22	3
10	64QAM	25	0	21.14	21.24	21.27	21.28	21.18		
10	64QAM	50	0	21.14	21.24	21.27	21.28	21.18		
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	23.89	24.09	24.25	24.09	23.87	25.00	0
5	QPSK	1	12	23.91	24.00	24.07	24.06	23.88		
5	QPSK	1	24	23.85	23.93	24.06	23.91	23.80		
5	QPSK	12	0	23.11	23.12	23.18	23.17	23.07	24	1
5	QPSK	12	7	23.00	23.04	23.15	23.01	22.95		
5	QPSK	12	13	22.95	23.08	23.06	23.11	22.97		
5	QPSK	25	0	23.00	23.17	23.21	23.16	23.02	24	1
5	16QAM	1	0	23.10	23.36	23.32	23.30	23.08		
5	16QAM	1	12	22.99	23.09	23.15	23.04	23.04		
5	16QAM	1	24	23.11	23.13	23.22	23.16	23.12	23	2
5	16QAM	12	0	22.00	22.12	22.25	22.17	21.99		
5	16QAM	12	7	21.90	22.00	22.17	22.02	22.00		
5	16QAM	12	13	22.05	22.07	22.25	22.20	22.08	23	2
5	16QAM	25	0	22.09	22.12	22.32	22.11	22.14		
5	16QAM	25	0	22.09	22.12	22.32	22.11	22.14		
5	64QAM	1	0	21.86	21.89	21.95	21.81	21.80	23	2
5	64QAM	1	12	21.76	21.87	21.97	21.93	21.79		
5	64QAM	1	24	21.95	22.00	22.03	22.01	21.92		
5	64QAM	12	0	21.11	21.23	21.32	21.20	21.07	22	3
5	64QAM	12	7	20.92	21.01	21.10	20.96	20.92		
5	64QAM	12	13	21.04	21.08	21.13	21.04	20.86		
5	64QAM	25	0	21.22	21.29	21.32	21.27	21.23	22	3
5	64QAM	25	0	21.22	21.29	21.32	21.27	21.23		
5	64QAM	25	0	21.22	21.29	21.32	21.27	21.23		



Ant 3

Band 42 FCC								
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	24	0
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	23.31	23.44	23.26		
20	QPSK	1	49	23.22	23.43	23.24	23	1
20	QPSK	1	99	23.29	23.29	23.31		
20	QPSK	50	0	22.43	22.58	22.47		
20	QPSK	50	24	22.57	22.35	22.51	23	1
20	QPSK	50	50	22.41	22.47	22.40		
20	QPSK	100	0	22.50	22.56	22.41		
20	16QAM	1	0	22.39	22.43	22.22	23	1
20	16QAM	1	49	22.47	22.38	22.46		
20	16QAM	1	99	22.33	22.31	22.46		
20	16QAM	50	0	21.43	21.54	21.36	22	2
20	16QAM	50	24	21.35	21.44	21.41		
20	16QAM	50	50	21.40	21.37	21.46		
20	16QAM	100	0	21.34	21.29	21.40	22	2
20	64QAM	1	0	21.29	21.59	21.45		
20	64QAM	1	49	21.22	21.37	21.21		
20	64QAM	1	99	21.22	21.32	21.42	21	3
20	64QAM	50	0	20.39	20.41	20.34		
20	64QAM	50	24	20.45	20.27	20.35		
20	64QAM	50	50	20.37	20.39	20.28	21	3
20	64QAM	100	0	20.29	20.32	20.21		
Channel				42165	42590	43015		
Frequency (MHz)				3457.5	3500	3542.5		
15	QPSK	1	0	23.26	23.38	23.09		
15	QPSK	1	37	23.17	23.26	23.18	23	1
15	QPSK	1	74	23.18	23.15	23.29		
15	QPSK	36	0	22.38	22.53	22.40		
15	QPSK	36	20	22.49	22.19	22.44	23	1
15	QPSK	36	39	22.36	22.35	22.34		
15	QPSK	75	0	22.47	22.42	22.31		
15	16QAM	1	0	22.32	22.39	22.08	23	1
15	16QAM	1	37	22.32	22.27	22.40		
15	16QAM	1	74	22.26	22.24	22.43		
15	16QAM	36	0	21.38	21.49	21.29	22	2
15	16QAM	36	20	21.22	21.39	21.38		
15	16QAM	36	39	21.31	21.33	21.29		
15	16QAM	75	0	21.17	21.19	21.25	22	2
15	64QAM	1	0	21.17	21.51	21.40		
15	64QAM	1	37	21.12	21.29	21.04		
15	64QAM	1	74	21.15	21.23	21.34	21	3
15	64QAM	36	0	20.21	20.24	20.32		
15	64QAM	36	20	20.34	20.12	20.19		
15	64QAM	36	39	20.34	20.34	20.17	21	3
15	64QAM	75	0	20.14	20.17	20.16		
Channel				42140	42590	43040		
Frequency (MHz)				3455	3500	3545		
10	QPSK	1	0	23.19	23.40	23.21		
10	QPSK	1	25	23.18	23.28	23.13	23	1
10	QPSK	1	49	23.13	23.25	23.23		
10	QPSK	25	0	22.38	22.51	22.38		



10	QPSK	25	12	22.52	22.19	22.46		
10	QPSK	25	25	22.28	22.35	22.32		
10	QPSK	50	0	22.34	22.53	22.39		
10	16QAM	1	0	22.29	22.28	22.17	23	1
10	16QAM	1	25	22.37	22.32	22.30		
10	16QAM	1	49	22.27	22.29	22.32		
10	16QAM	25	0	21.36	21.41	21.26	22	2
10	16QAM	25	12	21.25	21.35	21.38		
10	16QAM	25	25	21.22	21.30	21.39		
10	16QAM	50	0	21.29	21.26	21.34		
10	64QAM	1	0	21.20	21.43	21.34	22	2
10	64QAM	1	25	21.13	21.19	21.14		
10	64QAM	1	49	21.07	21.16	21.27		
10	64QAM	25	0	20.33	20.38	20.31	21	3
10	64QAM	25	12	20.35	20.19	20.24		
10	64QAM	25	25	20.30	20.24	20.26		
10	64QAM	50	0	20.22	20.21	20.11		
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3452.5	3500	3547.5		
5	QPSK	1	0	23.13	23.32	23.18	24	0
5	QPSK	1	12	23.15	23.31	23.19		
5	QPSK	1	24	23.20	23.20	23.18		
5	QPSK	12	0	22.33	22.51	22.40	23	1
5	QPSK	12	7	22.40	22.21	22.33		
5	QPSK	12	13	22.36	22.39	22.32		
5	QPSK	25	0	22.47	22.41	22.34		
5	16QAM	1	0	22.25	22.28	22.05	23	1
5	16QAM	1	12	22.43	22.22	22.41		
5	16QAM	1	24	22.23	22.15	22.41		
5	16QAM	12	0	21.34	21.51	21.31	22	2
5	16QAM	12	7	21.20	21.31	21.32		
5	16QAM	12	13	21.37	21.32	21.32		
5	16QAM	25	0	21.19	21.11	21.38		
5	64QAM	1	0	21.23	21.42	21.37	22	2
5	64QAM	1	12	21.16	21.34	21.16		
5	64QAM	1	24	21.19	21.28	21.30		
5	64QAM	12	0	20.34	20.26	20.31	21	3
5	64QAM	12	7	20.27	20.17	20.21		
5	64QAM	12	13	20.20	20.30	20.11		
5	64QAM	25	0	20.24	20.20	20.04		



Reduced Power Mode for DSI 3

Ant0

Band 38								
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	13.81	13.85	13.81	15.5	0
20	QPSK	1	49	13.65	13.75	13.61		
20	QPSK	1	99	13.55	13.64	13.56		
20	QPSK	50	0	13.81	13.85	13.65	15.5	0
20	QPSK	50	24	13.68	13.71	13.67		
20	QPSK	50	50	13.54	13.72	13.58		
20	QPSK	100	0	13.66	13.77	13.74		
20	16QAM	1	0	13.60	13.73	13.68	15.5	0
20	16QAM	1	49	13.61	13.68	13.70		
20	16QAM	1	99	13.60	13.67	13.65		
20	16QAM	50	0	13.56	13.64	13.63	15.5	0
20	16QAM	50	24	13.67	13.66	13.51		
20	16QAM	50	50	13.60	13.67	13.50		
20	16QAM	100	0	13.53	13.66	13.63		
20	64QAM	1	0	13.61	13.67	13.67	15.5	0
20	64QAM	1	49	13.56	13.67	13.60		
20	64QAM	1	99	13.59	13.64	13.56		
20	64QAM	50	0	13.63	13.73	13.68	15.5	0
20	64QAM	50	24	13.72	13.76	13.76		
20	64QAM	50	50	13.60	13.61	13.59		
20	64QAM	100	0	13.69	13.67	13.76		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	14.74	14.86	14.71	15.5	0
15	QPSK	1	37	14.65	14.76	14.60		
15	QPSK	1	74	14.53	14.67	14.54		
15	QPSK	36	0	14.83	14.79	14.67	15.5	0
15	QPSK	36	20	14.66	14.72	14.62		
15	QPSK	36	39	14.52	14.70	14.61		
15	QPSK	75	0	14.63	14.77	14.70		
15	16QAM	1	0	14.61	14.73	14.64	15.5	0
15	16QAM	1	37	14.61	14.68	14.73		
15	16QAM	1	74	14.59	14.62	14.66		
15	16QAM	36	0	14.59	14.59	14.63	15.5	0
15	16QAM	36	20	14.68	14.67	14.57		
15	16QAM	36	39	14.53	14.68	14.49		
15	16QAM	75	0	14.50	14.67	14.66		
15	64QAM	1	0	14.60	14.61	14.65	15.5	0
15	64QAM	1	37	14.60	14.73	14.60		
15	64QAM	1	74	14.61	14.62	14.53		
15	64QAM	36	0	14.62	14.70	14.71	15.5	0
15	64QAM	36	20	14.70	14.71	14.71		
15	64QAM	36	39	14.56	14.61	14.54		
15	64QAM	75	0	14.64	14.80	14.71		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	14.83	14.83	14.67	15.5	0
10	QPSK	1	25	14.70	14.82	14.67		



10	QPSK	1	49	14.63	14.68	14.61		
10	QPSK	25	0	14.83	14.88	14.70	15.5	0
10	QPSK	25	12	14.70	14.76	14.70		
10	QPSK	25	25	14.56	14.73	14.62		
10	QPSK	50	0	14.68	14.79	14.74		
10	16QAM	1	0	14.65	14.77	14.71	15.5	0
10	16QAM	1	25	14.64	14.78	14.70		
10	16QAM	1	49	14.62	14.70	14.71		
10	16QAM	25	0	14.61	14.63	14.66	15.5	0
10	16QAM	25	12	14.67	14.71	14.55		
10	16QAM	25	25	14.63	14.71	14.50		
10	16QAM	50	0	14.55	14.70	14.67		
10	64QAM	1	0	14.62	14.68	14.70	15.5	0
10	64QAM	1	25	14.65	14.73	14.62		
10	64QAM	1	49	14.62	14.74	14.61		
10	64QAM	25	0	14.65	14.75	14.69	15.5	0
10	64QAM	25	12	14.77	14.81	14.75		
10	64QAM	25	25	14.66	14.69	14.59		
10	64QAM	50	0	14.73	14.84	14.74		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	14.74	14.83	14.67	15.5	0
5	QPSK	1	12	14.63	14.74	14.63		
5	QPSK	1	24	14.53	14.68	14.56		
5	QPSK	12	0	14.80	14.79	14.68	15.5	0
5	QPSK	12	7	14.68	14.75	14.59		
5	QPSK	12	13	14.46	14.71	14.58		
5	QPSK	25	0	14.62	14.76	14.70		
5	16QAM	1	0	14.60	14.71	14.64	15.5	0
5	16QAM	1	12	14.56	14.70	14.65		
5	16QAM	1	24	14.63	14.65	14.66		
5	16QAM	12	0	14.61	14.58	14.58	15.5	0
5	16QAM	12	7	14.61	14.63	14.51		
5	16QAM	12	13	14.50	14.67	14.45		
5	16QAM	25	0	14.48	14.62	14.60		
5	64QAM	1	0	14.55	14.63	14.61	15.5	0
5	64QAM	1	12	14.59	14.70	14.61		
5	64QAM	1	24	14.58	14.68	14.57		
5	64QAM	12	0	14.63	14.72	14.66	15.5	0
5	64QAM	12	7	14.69	14.72	14.70		
5	64QAM	12	13	14.62	14.62	14.58		
5	64QAM	25	0	14.63	14.77	14.70		



Ant2

Band 41										
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	18	0
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.17	17.30	17.48	17.39	17.11		
20	QPSK	1	49	17.11	17.27	17.44	17.35	17.16	18	0
20	QPSK	1	99	17.14	17.22	17.39	17.25	17.10		
20	QPSK	50	0	17.11	17.22	17.45	17.39	17.21		
20	QPSK	50	24	17.16	17.11	17.39	17.30	17.14	18	0
20	QPSK	50	50	17.10	17.14	17.34	17.20	17.09		
20	QPSK	100	0	17.18	17.25	17.42	17.32	17.15		
20	16QAM	1	0	17.02	17.09	17.33	17.18	17.06	18	0
20	16QAM	1	49	17.13	17.16	17.38	17.33	17.08		
20	16QAM	1	99	17.04	17.04	17.31	17.25	17.05		
20	16QAM	50	0	17.08	17.12	17.35	17.22	17.00	18	0
20	16QAM	50	24	17.07	17.13	17.36	17.29	17.10		
20	16QAM	50	50	17.08	17.09	17.34	17.22	17.03		
20	16QAM	100	0	17.04	17.20	17.38	17.35	17.08	18	0
20	64QAM	1	0	17.11	17.16	17.41	17.29	17.11		
20	64QAM	1	49	17.08	17.18	17.37	17.24	17.12		
20	64QAM	1	99	17.14	17.20	17.40	17.34	17.11	18	0
20	64QAM	50	0	17.04	17.12	17.36	17.28	17.06		
20	64QAM	50	24	17.15	17.06	17.34	17.24	17.09		
20	64QAM	50	50	17.02	17.10	17.35	17.29	17.01	18	0
20	64QAM	100	0	17.28	17.33	17.39	17.30	17.14		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	18.00	0
15	QPSK	1	0	17.07	17.27	17.44	17.26	17.00		
15	QPSK	1	37	17.07	17.18	17.33	17.20	17.06		
15	QPSK	1	74	17.05	17.08	17.33	17.16	16.99	18	0
15	QPSK	36	0	16.96	17.13	17.36	17.31	17.11		
15	QPSK	36	20	17.03	17.03	17.32	17.21	17.03		
15	QPSK	36	39	17.02	17.11	17.26	17.15	17.02	18	0
15	QPSK	75	0	17.06	17.17	17.33	17.21	17.11		
15	16QAM	1	0	16.89	16.96	17.21	17.04	16.92		
15	16QAM	1	37	16.99	17.10	17.34	17.22	17.00	18	0
15	16QAM	1	74	16.99	16.95	17.24	17.20	16.96		
15	16QAM	36	0	16.99	17.08	17.25	17.09	16.91		
15	16QAM	36	20	17.01	17.00	17.27	17.17	16.96	18	0
15	16QAM	36	39	17.05	16.96	17.29	17.09	16.94		
15	16QAM	75	0	16.96	17.11	17.28	17.22	17.02		
15	64QAM	1	0	16.98	17.11	17.28	17.17	16.97	18	0
15	64QAM	1	37	16.94	17.03	17.32	17.16	17.03		
15	64QAM	1	74	17.10	17.14	17.31	17.20	17.07		
15	64QAM	36	0	16.93	17.06	17.32	17.21	17.00	18	0
15	64QAM	36	20	17.11	17.00	17.26	17.10	16.96		
15	64QAM	36	39	16.93	17.05	17.22	17.16	16.94		
15	64QAM	75	0	17.15	17.29	17.30	17.19	17.08	18.00	0
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.06	17.25	17.41	17.31	17.02	18.00	0
10	QPSK	1	25	17.08	17.20	17.40	17.25	17.05		
10	QPSK	1	49	17.07	17.13	17.34	17.12	17.03		



10	QPSK	25	0	17.06	17.10	17.30	17.28	17.15	18	0
10	QPSK	25	12	17.12	17.02	17.32	17.21	17.08		
10	QPSK	25	25	16.96	17.03	17.19	17.11	17.01		
10	QPSK	50	0	17.09	17.10	17.29	17.25	17.02		
10	16QAM	1	0	16.91	16.97	17.24	17.10	16.92	18	0
10	16QAM	1	25	17.09	17.10	17.33	17.19	16.98		
10	16QAM	1	49	16.93	16.97	17.17	17.10	16.91		
10	16QAM	25	0	16.96	17.02	17.32	17.09	16.86	18	0
10	16QAM	25	12	17.03	17.08	17.30	17.15	17.02		
10	16QAM	25	25	17.00	17.05	17.29	17.08	16.96		
10	16QAM	50	0	16.96	17.12	17.25	17.32	17.00		
10	64QAM	1	0	17.06	17.11	17.27	17.19	17.03	18	0
10	64QAM	1	25	16.95	17.09	17.33	17.11	17.09		
10	64QAM	1	49	17.02	17.06	17.31	17.30	17.08		
10	64QAM	25	0	16.95	16.99	17.26	17.25	16.97	18	0
10	64QAM	25	12	17.10	17.01	17.23	17.19	17.01		
10	64QAM	25	25	16.90	17.05	17.21	17.24	16.94		
10	64QAM	50	0	17.24	17.19	17.26	17.24	17.09		
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	17.12	17.24	17.35	17.33	16.99	18.00	0
5	QPSK	1	12	17.02	17.21	17.38	17.30	17.13		
5	QPSK	1	24	16.99	17.14	17.34	17.13	16.95		
5	QPSK	12	0	17.01	17.14	17.41	17.25	17.12	18	0
5	QPSK	12	7	17.06	17.06	17.27	17.18	17.00		
5	QPSK	12	13	16.98	17.08	17.29	17.14	17.02		
5	QPSK	25	0	17.10	17.19	17.36	17.19	17.02		
5	16QAM	1	0	16.91	17.01	17.20	17.05	16.96	18	0
5	16QAM	1	12	16.99	17.11	17.27	17.19	16.96		
5	16QAM	1	24	16.92	16.96	17.23	17.11	16.92		
5	16QAM	12	0	17.03	17.00	17.24	17.12	16.90	18	0
5	16QAM	12	7	16.95	17.05	17.28	17.23	16.96		
5	16QAM	12	13	16.95	17.02	17.22	17.14	16.99		
5	16QAM	25	0	16.95	17.10	17.26	17.21	17.00		
5	64QAM	1	0	17.06	17.06	17.31	17.20	17.04	18	0
5	64QAM	1	12	16.95	17.13	17.34	17.14	17.02		
5	64QAM	1	24	17.00	17.11	17.34	17.26	17.00		
5	64QAM	12	0	17.01	17.09	17.32	17.25	17.00	18	0
5	64QAM	12	7	17.05	16.94	17.26	17.12	16.95		
5	64QAM	12	13	16.99	16.99	17.24	17.21	16.89		
5	64QAM	25	0	17.18	17.25	17.27	17.23	17.03		



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Band 42 FCC										
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	19.5	0		
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	18.83	18.89	18.78				
20	QPSK	1	49	18.62	18.76	18.67	19.5	0		
20	QPSK	1	99	18.62	18.71	18.67				
20	QPSK	50	0	18.75	18.86	18.77				
20	QPSK	50	24	18.77	18.84	18.73	19.5	0		
20	QPSK	50	50	18.66	18.77	18.71				
20	QPSK	100	0	18.69	18.83	18.69				
20	16QAM	1	0	18.65	18.78	18.65	19.5	0		
20	16QAM	1	49	18.76	18.81	18.71				
20	16QAM	1	99	18.60	18.74	18.59				
20	16QAM	50	0	18.66	18.80	18.76	19.5	0		
20	16QAM	50	24	18.65	18.75	18.62				
20	16QAM	50	50	18.56	18.71	18.58				
20	16QAM	100	0	18.77	18.82	18.70	19.5	0		
20	64QAM	1	0	18.68	18.79	18.75				
20	64QAM	1	49	18.62	18.67	18.60				
20	64QAM	1	99	18.69	18.74	18.66	19.5	0		
20	64QAM	50	0	18.69	18.82	18.68				
20	64QAM	50	24	18.70	18.76	18.64				
20	64QAM	50	50	18.62	18.71	18.57	19.5	0		
20	64QAM	100	0	18.65	18.80	18.67				
Channel				42165	42590	43015			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500	3542.5	19.5	0		
15	QPSK	1	0	18.76	18.84	18.73				
15	QPSK	1	37	18.52	18.69	18.62				
15	QPSK	1	74	18.57	18.61	18.62	19.5	0		
15	QPSK	36	0	18.62	18.75	18.63				
15	QPSK	36	20	18.63	18.80	18.63				
15	QPSK	36	39	18.51	18.64	18.66	19.5	0		
15	QPSK	75	0	18.59	18.76	18.57				
15	16QAM	1	0	18.52	18.71	18.56				
15	16QAM	1	37	18.66	18.77	18.68	19.5	0		
15	16QAM	1	74	18.49	18.70	18.52				
15	16QAM	36	0	18.56	18.74	18.70				
15	16QAM	36	20	18.57	18.63	18.54	19.5	0		
15	16QAM	36	39	18.44	18.62	18.52				
15	16QAM	75	0	18.67	18.73	18.59				
15	64QAM	1	0	18.58	18.66	18.65	19.5	0		
15	64QAM	1	37	18.54	18.55	18.54				
15	64QAM	1	74	18.65	18.60	18.53				
15	64QAM	36	0	18.66	18.67	18.62	19.5	0		
15	64QAM	36	20	18.55	18.63	18.55				
15	64QAM	36	39	18.50	18.58	18.43				
15	64QAM	75	0	18.51	18.72	18.61	19.5	0		
Channel				42140	42590	43040			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455	3500	3545				
10	QPSK	1	0	18.75	18.85	18.73	19.5	0		
10	QPSK	1	25	18.52	18.71	18.61				
10	QPSK	1	49	18.49	18.57	18.53				
10	QPSK	25	0	18.61	18.78	18.69	19.5	0		



10	QPSK	25	12	18.63	18.77	18.63		
10	QPSK	25	25	18.63	18.73	18.66		
10	QPSK	50	0	18.59	18.78	18.55		
10	16QAM	1	0	18.57	18.68	18.54	19.5	0
10	16QAM	1	25	18.70	18.72	18.61		
10	16QAM	1	49	18.53	18.60	18.44		
10	16QAM	25	0	18.57	18.74	18.71	19.5	0
10	16QAM	25	12	18.61	18.71	18.54		
10	16QAM	25	25	18.48	18.65	18.46		
10	16QAM	50	0	18.74	18.75	18.63		
10	64QAM	1	0	18.56	18.66	18.65	19.5	0
10	64QAM	1	25	18.55	18.60	18.52		
10	64QAM	1	49	18.61	18.65	18.55		
10	64QAM	25	0	18.57	18.70	18.61	19.5	0
10	64QAM	25	12	18.58	18.65	18.59		
10	64QAM	25	25	18.50	18.66	18.50		
10	64QAM	50	0	18.54	18.76	18.52		
Channel				42115	42590	43065		
Frequency (MHz)				3452.5	3500	3547.5		
5	QPSK	1	0	18.72	18.75	18.69	19.5	0
5	QPSK	1	12	18.50	18.71	18.53		
5	QPSK	1	24	18.53	18.64	18.60		
5	QPSK	12	0	18.63	18.73	18.67	19.5	0
5	QPSK	12	7	18.68	18.69	18.65		
5	QPSK	12	13	18.53	18.68	18.59		
5	QPSK	25	0	18.61	18.74	18.60		
5	16QAM	1	0	18.53	18.69	18.57		
5	16QAM	1	12	18.72	18.77	18.67	19.5	0
5	16QAM	1	24	18.57	18.64	18.53		
5	16QAM	12	0	18.60	18.71	18.69		
5	16QAM	12	7	18.53	18.65	18.56	19.5	0
5	16QAM	12	13	18.51	18.60	18.48		
5	16QAM	25	0	18.69	18.69	18.61		
5	64QAM	1	0	18.59	18.70	18.69		
5	64QAM	1	12	18.50	18.62	18.51		
5	64QAM	1	24	18.56	18.61	18.58	19.5	0
5	64QAM	12	0	18.64	18.75	18.61		
5	64QAM	12	7	18.58	18.69	18.61		
5	64QAM	12	13	18.58	18.57	18.43		
5	64QAM	25	0	18.60	18.77	18.55		

<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. All permutations exist. No restrictions on Pcell & Scell combinations.

2CC Downlink Carrier Aggregation				3CC Downlink Carrier Aggregation				4CC Downlink Carrier Aggregation			
Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset
1	CA_7B	7A		1	CA_41D	41A		1	CA_41A-41A-41C	41A	
2	CA_7C	7A		2	CA_4A-7C	4A,7A					
3	CA_41C	41A	4CC#1	3	CA_5A-7A-7A	7A					
4	CA_5A-7A	7A	3CC#3	4	CA_5A-7C	7A					
5	CA_7A-7A	7A	3CC#3	5	CA_2A-4A-7A	2A, 4A, 7A					
6	CA_41A-41A	41A	4CC#1								
7	CA_5A-38A										
8	CA_5A-41A	41A									

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Band 2/4/7/41 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 2/4/7/41

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.

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

<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_5A-38A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 38	20M	2595	38000	4x4MIMO	23.23	23.27
CA_5A-41A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	23.11	23.27
CA_7B	Band 7	Ant0	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	22.84	22.90
CA_7C	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2555	3298	4x4MIMO	22.81	22.90



<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	Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-4A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.63	23.83
	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.51	23.64
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.88	22.90
CA_5A-7C	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.21	23.27
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 5	10M	881.5	2525		22.84	22.90
CA_5A-7A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2680	3350	4x4MIMO	23.21	23.27
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2680	3350	4x4MIMO	Band 5	10M	881.5	2525		22.84	22.90
CA_41D	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	24.55	24.72
CA_4A-7C	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	23.53	23.64
	Band 7	Ant0	20M	20M	2535	QPSK	1	0	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.71	22.90

<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	Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
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	24.56	24.72

LTE Carrier Aggregation Conducted Power (Uplink)

2CC Uplink Carrier Aggregation		
Number	Combination	Ant No.
1	7C	ANT0
2	41C	ANT2
3	42C	ANT3

<Intra-band>

General Note:

- i. The device supports intra-band uplink carrier aggregation for LTE B7/B41/B42 with a maximum of two 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 20MHz 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.



Default Power Mode

Ant0

CA_7C								
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	22.67	24.00
21100	21298	QPSK	1	99	1	0	22.82	24.00
21350	21152	QPSK	1	0	1	99	22.71	24.00

Ant2

CA_41C								
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	24.23	25.00
40185	40383	QPSK	1	99	1	0	24.32	25.00
40620	40818	QPSK	1	99	1	0	24.46	25.00
41055	41253	QPSK	1	99	1	0	24.29	25.00
41490	41292	QPSK	1	0	1	99	24.12	25.00

Ant3

CA_42C								
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		
42190	42388	QPSK	1	99	1	0	23.26	24.00
42590	42788	QPSK	1	99	1	0	23.35	24.00
42990	42792	QPSK	1	0	1	99	23.12	24.00

Reduced Power Mode for DSI 0

Ant0

CA_7C								
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	21.67	24.00
21100	21298	QPSK	1	99	1	0	22.82	24.00
21350	21152	QPSK	1	0	1	99	21.71	24.00

Ant2

CA_41C								
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	23.61	25.00
40185	40383	QPSK	1	99	1	0	23.58	25.00
40620	40818	QPSK	1	99	1	0	23.91	25.00
41055	41253	QPSK	1	99	1	0	23.84	25.00
41490	41292	QPSK	1	0	1	99	23.76	25.00

Ant3

CA_42C								
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		
42190	42388	QPSK	1	99	1	0	23.26	24.00
42590	42788	QPSK	1	99	1	0	23.41	24.00
42990	42792	QPSK	1	0	1	99	23.39	24.00

Reduced Power Mode for DSI 1

Ant0

CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	1	0	15.68	16.70
21100	21298	QPSK	1	99	1	0	1	0	15.77	16.70
21350	21152	QPSK	1	0	1	99	1	0	15.74	16.70

Ant2

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	1	0	17.12	18.00
40185	40383	QPSK	1	99	1	0	1	0	17.25	18.00
40620	40818	QPSK	1	99	1	0	1	0	17.43	18.00
41055	41253	QPSK	1	99	1	0	1	0	17.34	18.00
41490	41292	QPSK	1	0	1	99	1	0	17.06	18.00

Ant3

CA_42C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	1	0	18.79	19.50
42590	42788	QPSK	1	99	1	0	1	0	18.85	19.50
42990	42792	QPSK	1	0	1	99	1	0	18.76	19.50

Reduced Power Mode for DSI 2

Ant0

CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	1	0	22.09	23.10
21100	21298	QPSK	1	99	1	0	1	0	22.13	23.10
21350	21152	QPSK	1	0	1	99	1	0	21.98	23.10

Ant2

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	1	0	22.90	24.20
40185	40383	QPSK	1	99	1	0	1	0	23.04	24.20
40620	40818	QPSK	1	99	1	0	1	0	23.14	24.20
41055	41253	QPSK	1	99	1	0	1	0	23.09	24.20
41490	41292	QPSK	1	0	1	99	1	0	22.96	24.20

Ant3

CA_42C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	1	0	23.26	24.00
42590	42788	QPSK	1	99	1	0	1	0	23.39	24.00
42990	42792	QPSK	1	0	1	99	1	0	23.21	24.00



Reduced Power Mode for DSI 3

Ant0

CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	1	0	12.83	14.10
21100	21298	QPSK	1	99	1	0	1	0	12.85	14.10
21350	21152	QPSK	1	0	1	99	1	0	12.82	14.10

Ant2

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	1	0	17.10	18.00
40185	40383	QPSK	1	99	1	0	1	0	17.23	18.00
40620	40818	QPSK	1	99	1	0	1	0	17.41	18.00
41055	41253	QPSK	1	99	1	0	1	0	17.32	18.00
41490	41292	QPSK	1	0	1	99	1	0	17.04	18.00

Ant3

CA_42C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	1	0	18.75	19.50
42590	42788	QPSK	1	99	1	0	1	0	18.81	19.50
42990	42792	QPSK	1	0	1	99	1	0	18.70	19.50



5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2 / n5 / n7 / n66 / n77 / n78 is NSA mode.
2. 5G NR n2 / n5 / n7 / n66 / 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-QPSK and the reported SAR for the DFT-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. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.
5. 5G NR n41 / n77 / n78 supports HPUE, HPUE power and SAR testing performed separately.
6. 5G NR n41 / n77 / n78 HUPE with higher power, 5G NR n78 HUPE SAR can represent power class 3 level SAR.
7. NSA and SA mode should perform SAR separately. For the bands, when channel bandwidth of SA and NSA is same, and the maximum power of NSA mode is same as SA total power level, SA SAR can represent NSA mode SAR. For the bands, when channel bandwidth of SA and NSA is different, choose the largest channel bandwidth with maximum power to perform SAR testing, so the largest channel bandwidth SAR can represent the smallest channel bandwidth SAR.
8. When channel bandwidth of SA and NSA is same, 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. When channel bandwidth of SA and NSA is different, chose the largest channel bandwidth mode among SA and NSA to perform power measurement.
9. 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.
10. 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.

<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 and combine Total Power>

Uplink EN-DC Configuration	LTE TX ANT	NR TX ANT
DC_2A_n7A	ANT0	ANT2
DC_2A_n66A	ANT2	ANT0
DC_2A_n78A	ANT0	ANT3
DC_5A_n7A	ANT0	ANT2
DC_5A_n78A	ANT0	ANT3
DC_5A_n66A	ANT2	ANT0
DC_7A_n2A	ANT2	ANT0
DC_7A_n5A	ANT2	ANT0
DC_7A_n66A	ANT2	ANT0
DC_7A_n77A	ANT0	ANT3
DC_7A_n78A	ANT0	ANT3
DC_38A_n78A	ANT0	ANT3

Default Power Mode

Ant 0

n2								
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	25.0	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	24.00	24.13	24.09		
20	PI/2 BPSK	1	53	24.04	24.18	24.14	24.5	0.5
20	PI/2 BPSK	1	104	23.97	24.07	23.90		
20	PI/2 BPSK	50	0	23.63	23.68	23.56		
20	PI/2 BPSK	50	28	24.02	24.11	23.98	24.5	0.0
20	PI/2 BPSK	50	56	23.55	23.63	23.60		
20	PI/2 BPSK	100	0	23.43	23.60	23.45		
20	QPSK	1	1	24.16	24.25	24.11	25.0	0.0
20	QPSK	1	53	24.08	24.15	24.01		
20	QPSK	1	104	23.89	24.04	23.94		
20	QPSK	50	0	23.14	23.20	23.16	24.0	1.0
20	QPSK	50	28	24.11	24.17	24.00	24.0	1.0
20	QPSK	50	56	23.02	23.19	23.04		
20	QPSK	100	0	23.07	23.16	23.02		
20	16QAM	1	1	23.10	23.19	23.10	24.0	1.0
20	64QAM	1	1	21.47	21.63	21.52	22.5	2.5
20	256QAM	1	1	19.72	19.76	19.63	20.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	24.13	24.07	23.95	25.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	24.06	24.22	24.03	25.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	23.99	24.13	23.98	25.0	0.0

n5								
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	23.87	23.96	23.82	25.0	0.0
20	PI/2 BPSK	1	53	23.81	23.89	23.81		
20	PI/2 BPSK	1	104	23.80	23.87	23.81		
20	PI/2 BPSK	50	0	23.03	23.17	23.08	24.5	0.5
20	PI/2 BPSK	50	28	23.76	23.84	23.80	25.0	0.0
20	PI/2 BPSK	50	56	23.33	23.38	23.22	24.5	0.5
20	PI/2 BPSK	100	0	23.13	23.31	23.15		
20	QPSK	1	1	23.91	24.03	23.89	25.0	0.0
20	QPSK	1	53	23.82	23.93	23.91		
20	QPSK	1	104	23.74	23.90	23.76		
20	QPSK	50	0	22.53	22.62	22.53	24.0	1.0
20	QPSK	50	28	23.72	23.88	23.83	25.0	0.0
20	QPSK	50	56	22.89	22.92	22.84	24.0	1.0
20	QPSK	100	0	22.63	22.76	22.66		
20	16QAM	1	1	22.17	22.32	22.16	24.0	1.0
20	64QAM	1	1	20.66	20.82	20.70	22.5	2.5
20	256QAM	1	1	18.94	19.03	19.00	20.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.86	23.87	23.82	25.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.75	23.91	23.85	25.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.76	23.94	23.83	25.0	0.0



n7								
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				505000	507000	509000	24.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	23.31	23.47	23.44		
50	PI/2 BPSK	1	135	23.13	23.29	23.24	23.5	0.5
50	PI/2 BPSK	1	268	23.24	23.35	23.21		
50	PI/2 BPSK	135	0	22.46	22.62	22.49		
50	PI/2 BPSK	135	68	23.16	23.30	23.27	23.5	0.5
50	PI/2 BPSK	135	135	22.80	22.91	22.79		
50	PI/2 BPSK	270	0	22.63	22.78	22.61		
50	QPSK	1	1	23.41	23.54	23.39	24.0	0.0
50	QPSK	1	135	23.18	23.32	23.24		
50	QPSK	1	268	23.33	23.49	23.37		
50	QPSK	135	0	22.07	22.16	21.98	24.0	0.0
50	QPSK	135	68	23.23	23.29	23.21		
50	QPSK	135	135	22.40	22.44	22.40		
50	QPSK	270	0	22.16	22.32	22.16	23.0	1.0
50	16QAM	1	1	22.09	22.13	22.03		
50	64QAM	1	1	20.46	20.60	20.54		
50	256QAM	1	1	18.67	18.76	18.71	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	23.26	23.52	23.35	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.31	23.40	23.28	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	23.37	23.39	23.29	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.35	23.38	23.35	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	23.30	23.43	23.36	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.33	23.36	23.28	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	23.48	23.37	24.0	0.0

n66								
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				345000	349000	353000	25.0	0.0
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	23.85	23.97	23.91		
30	PI/2 BPSK	1	80	23.86	23.94	23.79	24.5	0.5
30	PI/2 BPSK	1	158	23.72	23.87	23.84		
30	PI/2 BPSK	80	0	23.23	23.37	23.20		
30	PI/2 BPSK	80	40	23.77	23.95	23.80	24.5	0.5
30	PI/2 BPSK	80	80	23.43	23.56	23.39		
30	PI/2 BPSK	160	0	23.43	23.58	23.51		
30	QPSK	1	1	24.01	24.13	24.06	25.0	0.0
30	QPSK	1	80	23.85	23.98	23.94		
30	QPSK	1	158	23.84	23.92	23.84		
30	QPSK	80	0	22.79	22.84	22.73	24.0	1.0
30	QPSK	80	40	23.88	23.99	23.90		
30	QPSK	80	80	22.98	23.07	22.91		
30	QPSK	160	0	22.89	22.92	22.79	24.0	1.0
30	16QAM	1	1	22.72	22.82	22.75		
30	64QAM	1	1	21.22	21.34	21.32		
30	256QAM	1	1	19.46	19.52	19.49	20.5	4.5
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.95	24.08	23.95	25.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.92	23.96	23.94	25.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.87	23.96	23.98	25.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.95	24.01	23.93	25.0	0.0

n38								
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	23.68	23.71	23.55	24.0	0.0
40	PI/2 BPSK	1	53	23.55	23.69	23.57		
40	PI/2 BPSK	1	104	23.73	23.75	23.63		
40	PI/2 BPSK	50	0	23.22	23.28	23.11	23.5	0.5
40	PI/2 BPSK	50	28	23.64	23.74	23.70	24.0	0.0
40	PI/2 BPSK	50	56	23.24	23.33	23.20	23.5	0.5
40	PI/2 BPSK	100	0	23.20	23.29	23.12		
40	QPSK	1	1	23.76	23.85	23.79	24.0	0.0
40	QPSK	1	53	23.66	23.81	23.73		
40	QPSK	1	104	23.68	23.77	23.70		
40	QPSK	50	0	22.67	22.81	22.66	23.0	1.0
40	QPSK	50	28	23.72	23.82	23.77	24.0	0.0
40	QPSK	50	56	22.79	22.83	22.73	23.0	1.0
40	QPSK	100	0	22.64	22.73	22.67		
40	16QAM	1	1	22.70	22.74	22.65	23.0	1.0
40	64QAM	1	1	21.14	21.21	21.06	21.5	2.5
40	256QAM	1	1	19.24	19.42	19.25	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	23.62	23.67	23.76	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	23.63	23.72	23.72	24.0	0.0



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n41_FCC								
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	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.96	20.07	20.03	21.0	0.0
100	PI/2 BPSK	1	137	19.93	20.02	20.00		
100	PI/2 BPSK	1	271	20.16	20.13	20.11		
100	PI/2 BPSK	135	0	20.06	20.20	20.04	21.0	0.0
100	PI/2 BPSK	135	69	20.07	20.02	20.12	21.0	0.0
100	PI/2 BPSK	135	138	20.01	20.17	20.04	21.0	0.0
100	PI/2 BPSK	270	0	20.00	20.14	19.96		
100	QPSK	1	1	20.07	20.22	19.99	21.0	0.0
100	QPSK	1	137	20.06	20.16	20.13		
100	QPSK	1	271	20.12	20.17	20.05		
100	QPSK	135	0	19.86	19.96	19.85	21.0	0.0
100	QPSK	135	69	20.04	20.20	20.07	21.0	0.0
100	QPSK	135	138	19.96	20.08	20.04	21.0	0.0
100	QPSK	270	0	20.05	20.10	20.05		
100	16QAM	1	1	20.01	20.06	19.96	21.0	0.0
100	64QAM	1	1	19.98	20.12	19.95	21.0	0.0
100	256QAM	1	1	20.12	20.17	20.09	21.0	0.0
Channel				508200	518598	528996	21.0	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.99	20.04	19.82	21.0	0.0
Channel				507204	518598	529998	21.0	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.93	20.18	19.84	21.0	0.0
Channel				506202	518598	531000	21.0	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.03	20.07	19.96	21.0	0.0
Channel				505200	518598	531996	21.0	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.04	20.17	19.91	21.0	0.0
Channel				504204	518598	532998	21.0	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.91	20.06	19.82	21.0	0.0
Channel				503202	518598	534000	21.0	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.00	20.13	19.89	21.0	0.0
Channel				502200	518598	534996	21.0	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.97	20.11	19.86	21.0	0.0
Channel				501204	518598	535998	21.0	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.95	20.08	19.87	21.0	0.0



Par270 n77_FCC								
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	20.00	20.06	19.95	21.0	0.0
100	PI/2 BPSK	1	137	19.84	20.02	19.87		
100	PI/2 BPSK	1	271	20.10	20.16	20.06		
100	PI/2 BPSK	135	0	20.12	20.19	20.10	21.0	0.0
100	PI/2 BPSK	135	69	19.97	20.14	20.01	21.0	0.0
100	PI/2 BPSK	135	138	20.02	20.10	20.08	21.0	0.0
100	PI/2 BPSK	270	0	20.09	20.20	20.09		
100	QPSK	1	1	20.08	20.24	20.11		
100	QPSK	1	137	20.05	20.13	19.99	21.0	0.0
100	QPSK	1	271	20.05	20.22	20.05		
100	QPSK	135	0	19.93	19.97	19.89		
100	QPSK	135	69	20.13	20.18	20.02	21.0	0.0
100	QPSK	135	138	19.94	20.02	19.88	21.0	0.0
100	QPSK	270	0	20.08	20.15	20.00		
100	16QAM	1	1	19.91	20.04	19.97		
100	64QAM	1	1	19.91	19.94	19.88	21.0	0.0
100	256QAM	1	1	19.13	19.20	19.16	20.0	1.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.93	20.09	20.01	21.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.05	20.08	19.96	21.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.97	20.09	20.02	21.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	20.02	20.11	20.08	21.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.90	20.07	20.05	21.0	0.0



Part27Q n77_FCC								
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		21.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.77		21.0	0.0
100	PI/2 BPSK	1	137		19.74			
100	PI/2 BPSK	1	271		20.02			
100	PI/2 BPSK	135	0		19.85		21.0	0.0
100	PI/2 BPSK	135	69		19.95		21.0	0.0
100	PI/2 BPSK	135	138		19.71		21.0	0.0
100	PI/2 BPSK	270	0		19.76			
100	QPSK	1	1		20.05		21.0	0.0
100	QPSK	1	137		19.97			
100	QPSK	1	271		19.91			
100	QPSK	135	0		19.88		21.0	0.0
100	QPSK	135	69		20.03		21.0	0.0
100	QPSK	135	138		19.79		21.0	0.0
100	QPSK	270	0		19.94			
100	16QAM	1	1		19.68		21.0	0.0
100	64QAM	1	1		19.63		21.0	0.0
100	256QAM	1	1		18.44		19.5	1.5
Channel				632668	633334	634000	21.0	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.01	19.99	19.89	21.0	0.0
Channel				632000	633334	634668	21.0	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.88	19.88	19.97	21.0	0.0
Channel				631334	633334	635334	21.0	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.90	20.03	20.00	21.0	0.0
Channel				631000	633334	635668	21.0	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	19.92	19.95	19.96	21.0	0.0
Channel				630668	633334	636000	21.0	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.98	19.95	19.91	21.0	0.0



Part270 n78_FCC								
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	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		19.74			
100	PI/2 BPSK	1	137		19.76		21.0	0.0
100	PI/2 BPSK	1	271		19.80			
100	PI/2 BPSK	135	0		19.74			
100	PI/2 BPSK	135	69		19.78		21.0	0.0
100	PI/2 BPSK	135	138		19.68		21.0	0.0
100	PI/2 BPSK	270	0		19.64			
100	QPSK	1	1		19.85			
100	QPSK	1	137		19.81		21.0	0.0
100	QPSK	1	271		19.79			
100	QPSK	135	0		19.62			
100	QPSK	135	69		19.83		21.0	0.0
100	QPSK	135	138		19.67		21.0	0.0
100	QPSK	270	0		19.78			
100	16QAM	1	1		19.69			
100	64QAM	1	1		19.70		21.0	0.0
100	256QAM	1	1		18.57		19.5	1.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.70	19.78	19.78	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.81	19.82	19.82	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.77	19.77	19.72	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.68	19.79	19.73	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.78	19.72	19.73	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.76	19.68	19.77	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.79	19.83	19.76	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	19.82	19.81	19.80	21.0	0.0



Part27Q 78_FCC								
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		21.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.51			
100	PI/2 BPSK	1	137		19.46		21.0	0.0
100	PI/2 BPSK	1	271		19.58			
100	PI/2 BPSK	135	0		19.40			
100	PI/2 BPSK	135	69		19.58		21.0	0.0
100	PI/2 BPSK	135	138		19.54			
100	PI/2 BPSK	270	0		19.48			
100	QPSK	1	1		19.62		21.0	0.0
100	QPSK	1	137		19.49			
100	QPSK	1	271		19.52			
100	QPSK	135	0		19.43		21.0	0.0
100	QPSK	135	69		19.56			
100	QPSK	135	138		19.45			
100	QPSK	270	0		19.48		21.0	0.0
100	16QAM	1	1		19.54			
100	64QAM	1	1		19.46			
100	256QAM	1	1		18.69		20.0	1.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	19.55	19.46	19.50	21.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.45	19.48	19.52	21.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.45	19.53	19.40	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.44	19.41	19.49	21.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.45	19.46	19.47	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.41	19.48	19.42	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	19.45	19.56	19.51	21.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.45	19.44	19.42	21.0	0.0



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n7								
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				505000	507000	509000	24.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.72	22.78	22.64		
50	PI/2 BPSK	1	135	22.62	22.75	22.69	23.5	0.5
50	PI/2 BPSK	1	268	22.68	22.74	22.63		
50	PI/2 BPSK	135	0	22.05	22.21	22.15		
50	PI/2 BPSK	135	68	22.52	22.69	22.60	23.5	0.5
50	PI/2 BPSK	135	135	22.17	22.29	22.21		
50	PI/2 BPSK	270	0	22.11	22.17	22.05		
50	QPSK	1	1	22.81	22.82	22.78	24.0	0.0
50	QPSK	1	135	22.62	22.79	22.76		
50	QPSK	1	268	22.56	22.72	22.65		
50	QPSK	135	0	21.61	21.65	21.50	23.0	1.0
50	QPSK	135	68	22.66	22.72	22.58		
50	QPSK	135	135	21.56	21.69	21.55		
50	QPSK	270	0	21.64	21.77	21.69	23.0	1.0
50	16QAM	1	1	21.88	21.97	21.89		
50	64QAM	1	1	20.25	20.39	20.35		
50	256QAM	1	1	18.35	18.41	18.29	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	22.67	22.72	22.70	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.64	22.67	22.63	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	22.71	22.69	22.68	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.78	22.69	22.66	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	22.66	22.76	22.68	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.69	22.67	22.68	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	22.65	22.66	22.63	24.0	0.0



n41_FCC								
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	22.37	22.49	22.45		
100	PI/2 BPSK	1	137	22.38	22.45	22.42	24.0	0.0
100	PI/2 BPSK	1	271	22.50	22.53	22.49		
100	PI/2 BPSK	135	0	22.34	22.48	22.42		
100	PI/2 BPSK	135	69	22.26	22.40	22.36	24.0	0.0
100	PI/2 BPSK	135	138	22.24	22.35	22.18	24.0	0.0
100	PI/2 BPSK	270	0	22.39	22.41	22.27		
100	QPSK	1	1	22.63	22.68	22.59		
100	QPSK	1	137	22.44	22.50	22.33	24.0	0.0
100	QPSK	1	271	22.53	22.57	22.51		
100	QPSK	135	0	22.21	22.34	22.24		
100	QPSK	135	69	22.25	22.43	22.26	24.0	0.0
100	QPSK	135	138	22.35	22.38	22.30	24.0	0.0
100	QPSK	270	0	22.38	22.49	22.35		
100	16QAM	1	1	22.24	22.40	22.33		
100	64QAM	1	1	22.17	22.32	22.15	24.0	0.0
100	256QAM	1	1	21.56	21.62	21.54	22.5	1.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.58	22.63	22.45	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	22.61	22.61	22.44	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	22.59	22.56	22.49	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	22.55	22.61	22.50	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	22.58	22.51	22.56	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	22.46	22.52	22.47	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	22.61	22.52	22.47	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	22.59	22.61	22.44	24.0	0.0



n41_FCC PC2								
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	27.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	25.43	25.48	25.35		
100	PI/2 BPSK	1	137	25.36	25.42	25.33	26.5	0.5
100	PI/2 BPSK	1	271	25.51	25.61	25.51		
100	PI/2 BPSK	135	0	24.84	25.01	24.87		
100	PI/2 BPSK	135	69	25.38	25.47	25.36	27.0	0.0
100	PI/2 BPSK	135	138	24.90	24.95	24.85		
100	PI/2 BPSK	270	0	24.99	25.04	24.90		
100	QPSK	1	1	25.61	25.67	25.56	27.0	0.0
100	QPSK	1	137	25.50	25.52	25.46		
100	QPSK	1	271	25.35	25.42	25.33		
100	QPSK	135	0	24.47	24.50	24.33	26.0	1.0
100	QPSK	135	69	25.44	25.55	25.43		
100	QPSK	135	138	24.34	24.45	24.32		
100	QPSK	270	0	24.39	24.53	24.39	26.0	1.0
100	16QAM	1	1	24.65	24.81	24.76		
100	64QAM	1	1	23.01	23.06	22.97		
100	256QAM	1	1	20.85	21.03	20.94	22.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.59	25.60	25.54	27.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	25.57	25.59	25.39	27.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	25.59	25.54	25.45	27.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	25.54	25.62	25.53	27.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.54	25.53	25.46	27.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.44	25.60	25.44	27.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.58	25.51	25.51	27.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	25.48	25.50	25.42	27.0	0.0



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Par270 n77_FCC								
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	22.65	22.82	22.70	24.0	0.0
100	PI/2 BPSK	1	137	22.91	22.97	22.89		
100	PI/2 BPSK	1	271	22.76	22.85	22.70		
100	PI/2 BPSK	135	0	22.35	22.42	22.25	23.5	0.5
100	PI/2 BPSK	135	69	22.86	22.98	22.86	24.0	0.0
100	PI/2 BPSK	135	138	22.35	22.40	22.32	23.5	0.5
100	PI/2 BPSK	270	0	22.35	22.46	22.31		
100	QPSK	1	1	22.96	23.04	22.89	24.0	0.0
100	QPSK	1	137	22.74	22.89	22.87		
100	QPSK	1	271	22.75	22.82	22.74		
100	QPSK	135	0	21.78	21.91	21.89	23.0	1.0
100	QPSK	135	69	22.95	23.01	22.98	24.0	0.0
100	QPSK	135	138	21.88	21.93	21.77	23.0	1.0
100	QPSK	270	0	21.63	21.81	21.78		
100	16QAM	1	1	21.87	21.98	21.90	23.0	1.0
100	64QAM	1	1	20.00	20.04	20.00	21.5	2.5
100	256QAM	1	1	18.02	18.06	18.03	19.5	4.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.94	22.98	22.72	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	22.91	22.93	22.74	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.89	22.97	22.77	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	22.78	22.87	22.76	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	22.87	22.92	22.72	24.0	0.0



Par270 n77_FCC PC2								
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	25.83	25.92	25.89		
100	PI/2 BPSK	1	137	25.91	26.04	25.87	26.5	0.5
100	PI/2 BPSK	1	271	26.01	26.06	25.91		
100	PI/2 BPSK	135	0	25.60	25.62	25.59		
100	PI/2 BPSK	135	69	25.94	26.08	25.91	26.5	0.0
100	PI/2 BPSK	135	138	25.58	25.61	25.56		
100	PI/2 BPSK	270	0	25.41	25.59	25.41		
100	QPSK	1	1	26.02	26.13	26.06	27.0	0.0
100	QPSK	1	137	25.99	26.08	25.91		
100	QPSK	1	271	25.87	26.05	25.97		
100	QPSK	135	0	24.99	25.08	24.97	26.0	1.0
100	QPSK	135	69	25.95	26.11	26.06		
100	QPSK	135	138	25.00	25.07	25.01		
100	QPSK	270	0	25.03	25.09	24.97	26.0	1.0
100	16QAM	1	1	24.84	24.98	24.93		
100	64QAM	1	1	23.10	23.15	22.99		
100	256QAM	1	1	21.13	21.20	21.16	22.5	4.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	25.90	26.01	25.82	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	25.85	25.95	25.93	27.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	25.87	25.98	25.95	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	25.95	26.02	25.89	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	25.88	26.08	25.81	27.0	0.0



Part27Q n77_FCC								
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		22.92		23.5	0.5
100	PI/2 BPSK	1	137		23.05			
100	PI/2 BPSK	1	271		23.18		24.0	0.0
100	PI/2 BPSK	135	0		22.62			
100	PI/2 BPSK	135	69		23.19		23.5	0.5
100	PI/2 BPSK	135	138		22.66			
100	PI/2 BPSK	270	0		22.59		24.0	0.0
100	QPSK	1	1		23.23			
100	QPSK	1	137		23.09		23.0	1.0
100	QPSK	1	271		23.00			
100	QPSK	135	0		22.08		24.0	0.0
100	QPSK	135	69		23.14			
100	QPSK	135	138		22.16		23.0	1.0
100	QPSK	270	0		22.11			
100	16QAM	1	1		21.96		23.0	1.0
100	64QAM	1	1		20.16		21.5	2.5
100	256QAM	1	1		18.23		19.5	4.5
Channel				632668	633334	634000	24.0	0.0
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	23.12	23.06	23.05	24.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02	24.0	0.0
60	QPSK	1	1	23.14	23.21	23.11		
Channel				631334	633334	635334	24.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.08	23.13	23.13	24.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02	24.0	0.0
30	QPSK	1	1	23.11	23.18	23.01		
Channel				630668	633334	636000	24.0	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	23.07	23.06	23.15	24.0	0.0



Part27Q n77_FCC PC2								
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		25.99		26.5	0.5
100	PI/2 BPSK	1	137		26.16			
100	PI/2 BPSK	1	271		26.23			
100	PI/2 BPSK	135	0		25.58		27.0	0.0
100	PI/2 BPSK	135	69		26.21			
100	PI/2 BPSK	135	138		25.76			
100	PI/2 BPSK	270	0		25.71		26.0	1.0
100	QPSK	1	1		26.24			
100	QPSK	1	137		26.21			
100	QPSK	1	271		26.11		27.0	0.0
100	QPSK	135	0		25.18			
100	QPSK	135	69		26.20			
100	QPSK	135	138		25.21		26.0	1.0
100	QPSK	270	0		25.23			
100	16QAM	1	1		25.06			
100	64QAM	1	1		23.38		24.5	2.5
100	256QAM	1	1		21.21		22.5	4.5
Channel				632668	633334	634000	27.0	0.0
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	26.04	26.19	26.18	27.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02	27.0	0.0
60	QPSK	1	1	26.08	26.12	26.17		
Channel				631334	633334	635334	27.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	26.01	26.13	26.16	27.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02	27.0	0.0
30	QPSK	1	1	26.16	26.14	26.13		
Channel				630668	633334	636000	27.0	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	26.04	26.11	26.14	27.0	0.0



Part270 n78_FCC								
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		22.84		24.0	0.0
100	PI/2 BPSK	1	137		22.98			
100	PI/2 BPSK	1	271		22.91		23.5	0.5
100	PI/2 BPSK	135	0		22.38			
100	PI/2 BPSK	135	69		22.90		24.0	0.0
100	PI/2 BPSK	135	138		22.26			
100	PI/2 BPSK	270	0		22.38		23.5	0.5
100	QPSK	1	1		22.96			
100	QPSK	1	137		22.84		24.0	0.0
100	QPSK	1	271		22.81			
100	QPSK	135	0		21.86		23.0	1.0
100	QPSK	135	69		22.82			
100	QPSK	135	138		21.79		24.0	0.0
100	QPSK	270	0		21.82			
100	16QAM	1	1		21.59		23.0	1.0
100	64QAM	1	1		20.36			
100	256QAM	1	1		18.38		21.5	2.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	24.0	0.0
90	QPSK	1	1	22.79	22.92	22.84		
Channel				649334	650000	650668	24.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.84	22.83	22.86	24.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	24.0	0.0
70	QPSK	1	1	22.89	22.93	22.76		
Channel				648668	650000	651334	24.0	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.82	22.83	22.79	24.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	24.0	0.0
50	QPSK	1	1	22.79	22.80	22.79		
Channel				648000	650000	652000	24.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.86	22.81	22.80	24.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	24.0	0.0
30	QPSK	1	1	22.76	22.80	22.82		
Channel				647334	650000	652668	24.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.75	22.88	22.82	24.0	0.0



Part270 n78_FCC PC2								
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			
100	PI/2 BPSK	1	1		26.05		27.0	0.0
100	PI/2 BPSK	1	137		26.07			
100	PI/2 BPSK	1	271		26.02			
100	PI/2 BPSK	135	0		25.46		26.5	0.5
100	PI/2 BPSK	135	69		25.99		27.0	0.0
100	PI/2 BPSK	135	138		25.50		26.5	0.5
100	PI/2 BPSK	270	0		25.45			
100	QPSK	1	1		26.09		27.0	0.0
100	QPSK	1	137		26.03			
100	QPSK	1	271		25.94			
100	QPSK	135	0		24.98		26.0	1.0
100	QPSK	135	69		26.01		27.0	0.0
100	QPSK	135	138		24.93		26.0	1.0
100	QPSK	270	0		24.97			
100	16QAM	1	1		24.77		26.0	1.0
100	64QAM	1	1		23.61		24.5	2.5
100	256QAM	1	1		21.45		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	25.96	25.93	26.02	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	26.02	26.03	26.00	27.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	25.93	26.04	26.01	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	26.03	25.92	26.05	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	25.96	25.91	26.01	27.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.96	25.94	26.05	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	26.04	25.92	25.97	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	25.97	26.06	26.02	27.0	0.0



Part27Q 78_FCC								
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		22.96		23.5	0.5
100	PI/2 BPSK	1	137		23.18			
100	PI/2 BPSK	1	271		23.20		24.0	0.0
100	PI/2 BPSK	135	0		22.54			
100	PI/2 BPSK	135	69		23.18		23.5	0.5
100	PI/2 BPSK	135	138		22.66			
100	PI/2 BPSK	270	0		22.63		24.0	0.0
100	QPSK	1	1		23.26			
100	QPSK	1	137		23.14		23.0	1.0
100	QPSK	1	271		23.03			
100	QPSK	135	0		22.06		24.0	0.0
100	QPSK	135	69		23.14			
100	QPSK	135	138		22.17		23.0	1.0
100	QPSK	270	0		22.09			
100	16QAM	1	1		21.77		23.0	1.0
100	64QAM	1	1		20.59		21.5	2.5
100	256QAM	1	1		18.43		19.5	4.5
Channel				633000	633334	633668	24.0	0.0
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	23.03	23.13	22.96	24.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510	24.0	0.0
80	QPSK	1	1	23.00	23.19	23.00		
Channel				632334	633334	634334	24.0	0.0
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	23.12	23.09	23.01	24.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02	24.0	0.0
60	QPSK	1	1	23.00	23.04	22.93		
Channel				631668	633334	635000	24.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	23.03	23.18	22.97	24.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01	24.0	0.0
40	QPSK	1	1	23.14	23.09	23.08		
Channel				631000	633334	635668	24.0	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	23.00	23.10	22.99	24.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540	24.0	0.0
20	QPSK	1	1	23.03	23.15	23.01		



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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		27.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		26.19			
100	PI/2 BPSK	1	137		26.31		26.5	0.5
100	PI/2 BPSK	1	271		26.13			
100	PI/2 BPSK	135	0		25.73			
100	PI/2 BPSK	135	69		26.33		27.0	0.0
100	PI/2 BPSK	135	138		25.81			
100	PI/2 BPSK	270	0		25.79			
100	QPSK	1	1		26.44		27.0	0.0
100	QPSK	1	137		26.29			
100	QPSK	1	271		26.31			
100	QPSK	135	0		25.29		26.0	1.0
100	QPSK	135	69		26.32			
100	QPSK	135	138		25.28			
100	QPSK	270	0		25.30		26.0	1.0
100	16QAM	1	1		25.24			
100	64QAM	1	1		23.54			
100	256QAM	1	1		21.66		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	26.36	26.29	26.30	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	26.23	26.30	26.15	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	26.35	26.25	26.28	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	26.36	26.30	26.29	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	26.32	26.24	26.17	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	26.25	26.28	26.30	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	26.29	26.34	26.26	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	26.35	26.34	26.17	27.0	0.0



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n41_FCC								
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	19.33	19.46	19.39	21.0	0.0
100	PI/2 BPSK	1	137	19.20	19.31	19.23		
100	PI/2 BPSK	1	271	19.47	19.49	19.35		
100	PI/2 BPSK	135	0	19.45	19.47	19.45	21.0	0.0
100	PI/2 BPSK	135	69	19.15	19.30	19.18	21.0	0.0
100	PI/2 BPSK	135	138	19.24	19.31	19.27	21.0	0.0
100	PI/2 BPSK	270	0	19.14	19.28	19.23		
100	QPSK	1	1	19.32	19.56	19.46	21.0	0.0
100	QPSK	1	137	19.45	19.52	19.44		
100	QPSK	1	271	19.36	19.41	19.35		
100	QPSK	135	0	19.19	19.24	19.21	21.0	0.0
100	QPSK	135	69	19.28	19.44	19.40	21.0	0.0
100	QPSK	135	138	19.15	19.28	19.13	21.0	0.0
100	QPSK	270	0	19.24	19.29	19.13		
100	16QAM	1	1	19.37	19.44	19.28	21.0	0.0
100	64QAM	1	1	19.42	19.47	19.44	21.0	0.0
100	256QAM	1	1	19.34	19.39	19.35	21.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.29	19.48	19.37	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.26	19.41	19.44	21.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.29	19.49	19.31	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.17	19.39	19.33	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.14	19.52	19.28	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.25	19.47	19.35	21.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.22	19.46	19.40	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.24	19.48	19.36	21.0	0.0



Par270 n77_FCC								
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	21.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.02	20.12	20.10		
100	PI/2 BPSK	1	137	19.73	19.83	19.79	21.0	0.0
100	PI/2 BPSK	1	271	19.97	20.01	19.87		
100	PI/2 BPSK	135	0	19.84	20.01	19.87		
100	PI/2 BPSK	135	69	19.93	19.95	19.92	21.0	0.0
100	PI/2 BPSK	135	138	19.89	19.93	19.80	21.0	0.0
100	PI/2 BPSK	270	0	19.79	19.90	19.75		
100	QPSK	1	1	19.96	20.14	20.07		
100	QPSK	1	137	19.99	20.04	19.90	21.0	0.0
100	QPSK	1	271	20.01	20.03	19.86		
100	QPSK	135	0	19.78	19.82	19.76		
100	QPSK	135	69	19.98	20.01	19.90	21.0	0.0
100	QPSK	135	138	19.79	19.85	19.72	21.0	0.0
100	QPSK	270	0	19.86	19.92	19.88		
100	16QAM	1	1	19.91	19.97	19.87		
100	64QAM	1	1	19.96	20.04	20.01	21.0	0.0
100	256QAM	1	1	19.02	19.11	19.07	20.0	1.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.88	20.10	20.02	21.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.87	20.06	20.00	21.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.85	20.03	20.01	21.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.82	20.00	19.95	21.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.90	20.04	19.89	21.0	0.0



Part27Q n77_FCC								
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		21.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.36		21.0	0.0
100	PI/2 BPSK	1	137		19.19			
100	PI/2 BPSK	1	271		19.37			
100	PI/2 BPSK	135	0		19.46		21.0	0.0
100	PI/2 BPSK	135	69		19.39		21.0	0.0
100	PI/2 BPSK	135	138		19.29		21.0	0.0
100	PI/2 BPSK	270	0		19.23			
100	QPSK	1	1		19.48		21.0	0.0
100	QPSK	1	137		19.41			
100	QPSK	1	271		19.40			
100	QPSK	135	0		19.19		21.0	0.0
100	QPSK	135	69		19.34		21.0	0.0
100	QPSK	135	138		19.25		21.0	0.0
100	QPSK	270	0		19.24			
100	16QAM	1	1		19.38		21.0	0.0
100	64QAM	1	1		19.30		21.0	0.0
100	256QAM	1	1		18.56		19.5	1.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.41	19.33	19.34	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.39	19.34	19.33	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.43	19.44	19.37	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	19.44	19.45	19.33	21.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.44	19.32	19.45	21.0	0.0



Part270 n78_FCC								
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	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		19.94		21.0	0.0
100	PI/2 BPSK	1	137		19.93			
100	PI/2 BPSK	1	271		19.91			
100	PI/2 BPSK	135	0		20.13		21.0	0.0
100	PI/2 BPSK	135	69		20.04		21.0	0.0
100	PI/2 BPSK	135	138		19.99		21.0	0.0
100	PI/2 BPSK	270	0		19.93			
100	QPSK	1	1		20.19		21.0	0.0
100	QPSK	1	137		20.17			
100	QPSK	1	271		20.09			
100	QPSK	135	0		20.11		21.0	0.0
100	QPSK	135	69		20.15		21.0	0.0
100	QPSK	135	138		19.97		21.0	0.0
100	QPSK	270	0		20.06			
100	16QAM	1	1		20.01		21.0	0.0
100	64QAM	1	1		19.90		21.0	0.0
100	256QAM	1	1		18.85		19.5	1.5
Channel				649668	650000	650334	21.0	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	20.08	20.10	20.01	21.0	0.0
Channel				649334	650000	650668	21.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	20.07	20.12	20.14	21.0	0.0
Channel				649000	650000	651000	21.0	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	20.05	20.17	20.10	21.0	0.0
Channel				648668	650000	651334	21.0	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	20.08	20.01	20.14	21.0	0.0
Channel				648334	650000	651668	21.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	20.13	20.08	20.13	21.0	0.0
Channel				648000	650000	652000	21.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.10	20.03	20.17	21.0	0.0
Channel				647668	650000	652334	21.0	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	20.06	20.03	20.12	21.0	0.0
Channel				647334	650000	652668	21.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	20.13	20.04	20.02	21.0	0.0



Part27Q 78_FCC								
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		21.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.83			
100	PI/2 BPSK	1	137		19.81		21.0	0.0
100	PI/2 BPSK	1	271		19.81			
100	PI/2 BPSK	135	0		20.01			
100	PI/2 BPSK	135	69		19.96		21.0	0.0
100	PI/2 BPSK	135	138		19.95			
100	PI/2 BPSK	270	0		19.82			
100	QPSK	1	1		20.11		21.0	0.0
100	QPSK	1	137		20.08			
100	QPSK	1	271		19.95			
100	QPSK	135	0		19.93		21.0	0.0
100	QPSK	135	69		20.05			
100	QPSK	135	138		19.93			
100	QPSK	270	0		19.94		21.0	0.0
100	16QAM	1	1		19.88			
100	64QAM	1	1		19.75			
100	256QAM	1	1		18.73		19.5	1.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	19.18	19.15	19.29	21.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.21	19.22	19.16	21.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.20	19.21	19.20	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.16	19.25	19.17	21.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.23	19.23	19.27	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.23	19.27	19.20	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	19.17	19.21	19.21	21.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.28	19.27	19.24	21.0	0.0



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n41_FCC								
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	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.76	19.88	19.71		
100	PI/2 BPSK	1	137	19.78	19.94	19.88	21.0	0.0
100	PI/2 BPSK	1	271	19.87	19.98	19.82		
100	PI/2 BPSK	135	0	19.79	19.90	19.84		
100	PI/2 BPSK	135	69	19.85	19.91	19.88	21.0	0.0
100	PI/2 BPSK	135	138	19.90	19.93	19.83	21.0	0.0
100	PI/2 BPSK	270	0	19.70	19.86	19.80		
100	QPSK	1	1	19.86	20.07	19.90		
100	QPSK	1	137	19.97	20.00	19.93	21.0	0.0
100	QPSK	1	271	19.85	19.97	19.91		
100	QPSK	135	0	19.81	19.85	19.78		
100	QPSK	135	69	19.86	19.96	19.87	21.0	0.0
100	QPSK	135	138	19.81	19.90	19.74	21.0	0.0
100	QPSK	270	0	19.78	19.93	19.84		
100	16QAM	1	1	19.75	19.84	19.75		
100	64QAM	1	1	19.80	19.85	19.83	21.0	0.0
100	256QAM	1	1	19.87	19.92	19.85	21.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.76	19.96	19.83	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.83	19.98	19.78	21.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.71	19.98	19.88	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.78	19.98	19.88	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.83	19.97	19.80	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.70	19.90	19.77	21.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.82	20.02	19.81	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.77	19.95	19.86	21.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	19.82	19.89	19.83	21.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.80	20.04	19.86	21.0	0.0



Par270 n77_FCC								
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	21.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.81	20.16	19.87		
100	PI/2 BPSK	1	137	20.13	20.23	20.20	21.0	0.0
100	PI/2 BPSK	1	271	20.21	20.32	20.20		
100	PI/2 BPSK	135	0	19.93	20.05	19.98		
100	PI/2 BPSK	135	69	20.08	20.25	20.08	21.0	0.0
100	PI/2 BPSK	135	138	20.22	20.28	20.12		
100	PI/2 BPSK	270	0	19.99	20.13	20.05		
100	QPSK	1	1	20.13	20.36	20.29	21.0	0.0
100	QPSK	1	137	20.11	20.21	20.18		
100	QPSK	1	271	20.08	20.20	20.09		
100	QPSK	135	0	20.07	20.12	19.95	21.0	0.0
100	QPSK	135	69	20.14	20.23	20.11		
100	QPSK	135	138	20.08	20.22	20.10		
100	QPSK	270	0	20.08	20.17	20.05	21.0	0.0
100	16QAM	1	1	19.96	20.10	20.08		
100	64QAM	1	1	20.16	20.13	20.10		
100	256QAM	1	1	19.17	19.32	19.25	20.0	1.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.05	20.30	20.14	21.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.97	20.18	20.27	21.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	20.09	20.32	20.21	21.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.01	20.23	20.25	21.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	20.07	20.24	20.17	21.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.04	20.29	20.24	21.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.95	20.33	20.13	21.0	0.0
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	20.09	20.23	20.21	21.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	20.03	20.20	20.12	21.0	0.0



Part27Q n77_FCC								
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			
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.99		21.0	0.0
100	PI/2 BPSK	1	137		19.91			
100	PI/2 BPSK	1	271		20.08			
100	PI/2 BPSK	135	0		19.93		21.0	0.0
100	PI/2 BPSK	135	69		20.10		21.0	0.0
100	PI/2 BPSK	135	138		20.03		21.0	0.0
100	PI/2 BPSK	270	0		20.06			
100	QPSK	1	1		20.14			
100	QPSK	1	137		20.09		21.0	0.0
100	QPSK	1	271		20.11			
100	QPSK	135	0		19.95			
100	QPSK	135	69		20.12		21.0	0.0
100	QPSK	135	138		20.06		21.0	0.0
100	QPSK	270	0		20.10			
100	16QAM	1	1		20.04			
100	64QAM	1	1		19.68		21.0	0.0
100	256QAM	1	1		18.64		19.5	1.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	20.03	20.09	20.12	21.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.02	20.03	20.05	21.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	20.09	20.11	20.04	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	20.03	20.08	20.07	21.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	20.12	20.06	20.04	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	20.13	20.01	20.03	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	20.12	20.04	20.13	21.0	0.0
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	20.13	20.05	20.09	21.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	20.04	20.10	20.04	21.0	0.0



Part270 n78_FCC								
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	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		19.83		21.0	0.0
100	PI/2 BPSK	1	137		19.69			
100	PI/2 BPSK	1	271		19.89			
100	PI/2 BPSK	135	0		19.75		21.0	0.0
100	PI/2 BPSK	135	69		19.70		21.0	0.0
100	PI/2 BPSK	135	138		19.73		21.0	0.0
100	PI/2 BPSK	270	0		19.60			
100	QPSK	1	1		19.99		21.0	0.0
100	QPSK	1	137		19.96			
100	QPSK	1	271		19.92			
100	QPSK	135	0		19.87		21.0	0.0
100	QPSK	135	69		19.93		21.0	0.0
100	QPSK	135	138		19.75		21.0	0.0
100	QPSK	270	0		19.81			
100	16QAM	1	1		19.67		21.0	0.0
100	64QAM	1	1		19.64		21.0	0.0
100	256QAM	1	1		18.69		19.5	1.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.69	19.74	19.69	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.68	19.75	19.62	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.73	19.63	19.73	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.70	19.71	19.64	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.74	19.72	19.68	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.67	19.63	19.72	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.67	19.70	19.74	21.0	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	19.66	19.71	19.68	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	19.70	19.69	19.73	21.0	0.0



Part27Q 78_FCC								
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			
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.78		21.0	0.0
100	PI/2 BPSK	1	137		19.63			
100	PI/2 BPSK	1	271		19.82			
100	PI/2 BPSK	135	0		19.65		21.0	0.0
100	PI/2 BPSK	135	69		19.56		21.0	0.0
100	PI/2 BPSK	135	138		19.71		21.0	0.0
100	PI/2 BPSK	270	0		19.43			
100	QPSK	1	1		19.94			
100	QPSK	1	137		19.89		21.0	0.0
100	QPSK	1	271		19.75			
100	QPSK	135	0		19.73			
100	QPSK	135	69		19.80		21.0	0.0
100	QPSK	135	138		19.60		21.0	0.0
100	QPSK	270	0		19.77			
100	16QAM	1	1		19.54			
100	64QAM	1	1		19.61		21.0	0.0
100	256QAM	1	1		18.60		19.5	1.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	19.82	19.91	19.84	21.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.82	19.77	19.88	21.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.84	19.78	19.84	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.82	19.78	19.79	21.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.89	19.89	19.85	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.77	19.83	19.82	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	19.86	19.77	19.82	21.0	0.0
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	19.86	19.89	19.80	21.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.79	19.81	19.91	21.0	0.0

Reduced Power Mode for DSI 0

Ant 0

n2								
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	25.0	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	24.00	24.13	24.09		
20	PI/2 BPSK	1	53	24.04	24.13	24.14	24.5	0.5
20	PI/2 BPSK	1	104	23.97	24.07	23.90		
20	PI/2 BPSK	50	0	23.63	23.68	23.56		
20	PI/2 BPSK	50	28	24.02	24.11	23.98	24.5	0.0
20	PI/2 BPSK	50	56	23.55	23.63	23.60		
20	PI/2 BPSK	100	0	23.43	23.60	23.45		
20	QPSK	1	1	24.16	24.16	24.11	25.0	0.0
20	QPSK	1	53	24.08	24.15	24.01		
20	QPSK	1	104	23.89	24.04	23.94		
20	QPSK	50	0	23.14	23.20	23.16	24.0	1.0
20	QPSK	50	28	24.11	24.17	24.00		
20	QPSK	50	56	23.02	23.19	23.04		
20	QPSK	100	0	23.07	23.16	23.02	24.0	1.0
20	16QAM	1	1	23.10	23.19	23.10		
20	64QAM	1	1	21.47	21.63	21.52		
20	256QAM	1	1	19.72	19.76	19.63	20.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	24.13	24.07	23.95	25.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	24.06	24.11	24.03	25.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	23.99	24.13	23.98	25.0	0.0

n5								
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	23.87	23.96	23.82	25.0	0.0
20	PI/2 BPSK	1	53	23.81	23.89	23.81		
20	PI/2 BPSK	1	104	23.80	23.87	23.81		
20	PI/2 BPSK	50	0	23.03	23.17	23.08	24.5	0.5
20	PI/2 BPSK	50	28	23.76	23.84	23.80	25.0	0.0
20	PI/2 BPSK	50	56	23.33	23.38	23.22	24.5	0.5
20	PI/2 BPSK	100	0	23.13	23.31	23.15		
20	QPSK	1	1	23.91	24.03	23.89	25.0	0.0
20	QPSK	1	53	23.82	23.93	23.91		
20	QPSK	1	104	23.74	23.90	23.76		
20	QPSK	50	0	22.53	22.62	22.53	24.0	1.0
20	QPSK	50	28	23.72	23.88	23.83	25.0	0.0
20	QPSK	50	56	22.89	22.92	22.84	24.0	1.0
20	QPSK	100	0	22.63	22.76	22.66		
20	16QAM	1	1	22.17	22.32	22.16	24.0	1.0
20	64QAM	1	1	20.66	20.82	20.70	22.5	2.5
20	256QAM	1	1	18.94	19.03	19.00	20.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.86	23.87	23.82	25.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.75	23.91	23.85	25.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.76	23.94	23.83	25.0	0.0



n7								
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				505000	507000	509000	24.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	23.31	23.47	23.44	24.0	0.0
50	PI/2 BPSK	1	135	23.13	23.29	23.24		
50	PI/2 BPSK	1	268	23.24	23.35	23.21		
50	PI/2 BPSK	135	0	22.46	22.62	22.49	23.5	0.5
50	PI/2 BPSK	135	68	23.16	23.30	23.27	24.0	0.0
50	PI/2 BPSK	135	135	22.80	22.91	22.79	23.5	0.5
50	PI/2 BPSK	270	0	22.63	22.78	22.61		
50	QPSK	1	1	23.41	23.54	23.39	24.0	0.0
50	QPSK	1	135	23.18	23.32	23.24		
50	QPSK	1	268	23.33	23.49	23.37		
50	QPSK	135	0	22.07	22.16	22.06	23.0	1.0
50	QPSK	135	68	23.23	23.29	23.21	24.0	0.0
50	QPSK	135	135	22.40	22.44	22.40	23.0	1.0
50	QPSK	270	0	22.16	22.32	22.16		
50	16QAM	1	1	22.09	22.13	22.03	23.0	1.0
50	64QAM	1	1	20.46	20.60	20.54	21.5	2.5
50	256QAM	1	1	18.67	18.76	18.71	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	23.26	23.52	23.35	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.31	23.40	23.28	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	23.37	23.39	23.29	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.35	23.38	23.35	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	23.30	23.43	23.36	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.33	23.36	23.28	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	23.48	23.37	24.0	0.0



n66								
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				345000	349000	353000	25.0	0.0
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	23.85	23.97	23.91		
30	PI/2 BPSK	1	80	23.86	23.94	23.79	24.5	0.5
30	PI/2 BPSK	1	158	23.72	23.87	23.84		
30	PI/2 BPSK	80	0	23.23	23.37	23.20	25.0	0.0
30	PI/2 BPSK	80	40	23.77	23.95	23.80		
30	PI/2 BPSK	80	80	23.43	23.56	23.39	24.5	0.5
30	PI/2 BPSK	160	0	23.43	23.58	23.51		
30	QPSK	1	1	24.01	24.13	24.06	25.0	0.0
30	QPSK	1	80	23.85	23.98	23.94		
30	QPSK	1	158	23.84	23.92	23.84		
30	QPSK	80	0	22.79	22.84	22.73	25.0	0.0
30	QPSK	80	40	23.88	23.99	23.90		
30	QPSK	80	80	22.98	23.07	22.91	24.0	1.0
30	QPSK	160	0	22.89	22.92	22.79		
30	16QAM	1	1	22.72	22.82	22.75	24.0	1.0
30	64QAM	1	1	21.22	21.34	21.32		
30	256QAM	1	1	19.46	19.52	19.49	20.5	4.5
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770	25.0	0.0
20	QPSK	1	1	23.95	24.08	23.95		
Channel				343500	349000	354500	25.0	0.0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.92	23.96	23.94	25.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775	25.0	0.0
10	QPSK	1	1	23.87	23.96	23.98		
Channel				342500	349000	355500	25.0	0.0
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.95	24.01	23.93	25.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		



n38								
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	23.68	23.71	23.55	24.0	0.0
40	PI/2 BPSK	1	53	23.55	23.69	23.57		
40	PI/2 BPSK	1	104	23.73	23.75	23.63		
40	PI/2 BPSK	50	0	23.22	23.28	23.11	23.5	0.5
40	PI/2 BPSK	50	28	23.64	23.74	23.70	24.0	0.0
40	PI/2 BPSK	50	56	23.24	23.33	23.20	23.5	0.5
40	PI/2 BPSK	100	0	23.20	23.29	23.12		
40	QPSK	1	1	23.76	23.85	23.79	24.0	0.0
40	QPSK	1	53	23.66	23.81	23.73		
40	QPSK	1	104	23.68	23.77	23.70		
40	QPSK	50	0	22.67	22.81	22.66	23.0	1.0
40	QPSK	50	28	23.72	23.82	23.77	24.0	0.0
40	QPSK	50	56	22.79	22.83	22.73	23.0	1.0
40	QPSK	100	0	22.64	22.73	22.67		
40	16QAM	1	1	22.70	22.74	22.65	23.0	1.0
40	64QAM	1	1	21.14	21.21	21.06	21.5	2.5
40	256QAM	1	1	19.24	19.42	19.25	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	23.62	23.67	23.76	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	23.63	23.72	23.72	24.0	0.0



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n41_FCC								
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	15.5	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	14.63	14.80	14.69	15.5	0.0
100	PI/2 BPSK	1	137	14.57	14.78	14.60		
100	PI/2 BPSK	1	271	14.73	14.69	14.53		
100	PI/2 BPSK	135	0	14.57	14.74	14.75	15.5	0.0
100	PI/2 BPSK	135	69	14.49	14.70	14.55	15.5	0.0
100	PI/2 BPSK	135	138	14.77	14.84	14.87	15.5	0.0
100	PI/2 BPSK	270	0	14.71	14.78	14.81		
100	QPSK	1	1	14.66	14.93	14.74	15.5	0.0
100	QPSK	1	137	14.57	14.73	14.54		
100	QPSK	1	271	14.61	14.81	14.80		
100	QPSK	135	0	14.76	14.71	14.66	15.5	0.0
100	QPSK	135	69	14.64	14.86	14.72	15.5	0.0
100	QPSK	135	138	14.54	14.63	14.69	15.5	0.0
100	QPSK	270	0	14.69	14.85	14.61		
100	16QAM	1	1	14.62	14.79	14.62	15.5	0.0
100	64QAM	1	1	14.65	14.65	14.63	15.5	0.0
100	256QAM	1	1	14.54	14.66	14.52	15.5	0.0
Channel				508200	518598	528996	15.5	0.0
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.24	14.35	14.17	15.5	0.0
Channel				507204	518598	529998	15.5	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	14.17	14.30	14.17	15.5	0.0
Channel				506202	518598	531000	15.5	0.0
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	14.11	14.42	14.26	15.5	0.0
Channel				505200	518598	531996	15.5	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	14.10	14.45	14.31	15.5	0.0
Channel				504204	518598	532998	15.5	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	14.14	14.43	14.31	15.5	0.0
Channel				503202	518598	534000	15.5	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.16	14.36	14.16	15.5	0.0
Channel				502200	518598	534996	15.5	0.0
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	14.16	14.41	14.26	15.5	0.0
Channel				501204	518598	535998	15.5	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.16	14.32	14.18	15.5	0.0



Par270 n77_FCC								
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	15.3	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	14.70	14.81	14.82		
100	PI/2 BPSK	1	137	14.54	14.72	14.68	15.3	0.0
100	PI/2 BPSK	1	271	14.67	14.69	14.65		
100	PI/2 BPSK	135	0	14.60	14.79	14.72		
100	PI/2 BPSK	135	69	14.55	14.62	14.52	15.3	0.0
100	PI/2 BPSK	135	138	14.68	14.73	14.61		
100	PI/2 BPSK	270	0	14.57	14.66	14.54		
100	QPSK	1	1	14.66	14.83	14.71	15.3	0.0
100	QPSK	1	137	14.58	14.75	14.66		
100	QPSK	1	271	14.52	14.61	14.54		
100	QPSK	135	0	14.54	14.62	14.45	15.3	0.0
100	QPSK	135	69	14.65	14.81	14.74		
100	QPSK	135	138	13.73	13.73	13.64		
100	QPSK	270	0	14.75	14.82	14.70	15.3	0.0
100	16QAM	1	1	14.79	14.80	14.73		
100	64QAM	1	1	14.64	14.62	14.54		
100	256QAM	1	1	14.72	14.71	14.63	15.3	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	14.59	14.68	14.63	15.3	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	14.67	14.72	14.70	15.3	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	14.62	14.82	14.65	15.3	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	14.59	14.63	14.53	15.3	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	14.60	14.70	14.63	15.3	0.0



Part27Q n77_FCC								
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		15.3	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		14.65		15.3	0.0
100	PI/2 BPSK	1	137		14.68			
100	PI/2 BPSK	1	271		14.71			
100	PI/2 BPSK	135	0		14.65		15.3	0.0
100	PI/2 BPSK	135	69		14.70		15.3	0.0
100	PI/2 BPSK	135	138		14.66		15.3	0.0
100	PI/2 BPSK	270	0		14.64			
100	QPSK	1	1		14.73		15.3	0.0
100	QPSK	1	137		14.66			
100	QPSK	1	271		14.64			
100	QPSK	135	0		14.67		15.3	0.0
100	QPSK	135	69		14.70		15.3	0.0
100	QPSK	135	138		14.61		15.3	0.0
100	QPSK	270	0		14.66			
100	16QAM	1	1		14.52		15.3	0.0
100	64QAM	1	1		14.69		15.3	0.0
100	256QAM	1	1		14.48		15.3	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	14.70	14.61	14.60	15.3	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	14.72	14.68	14.63	15.3	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	14.68	14.56	14.58	15.3	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	14.63	14.71	14.68	15.3	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	14.57	14.71	14.58	15.3	0.0



Part270 n78_FCC								
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	15.3	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		14.62		15.3	0.0
100	PI/2 BPSK	1	137		14.57			
100	PI/2 BPSK	1	271		14.50			
100	PI/2 BPSK	135	0		14.60		15.3	0.0
100	PI/2 BPSK	135	69		14.61		15.3	0.0
100	PI/2 BPSK	135	138		14.46		15.3	0.0
100	PI/2 BPSK	270	0		14.47			
100	QPSK	1	1		14.66		15.3	0.0
100	QPSK	1	137		14.63			
100	QPSK	1	271		14.61			
100	QPSK	135	0		14.61		15.3	0.0
100	QPSK	135	69		14.64		15.3	0.0
100	QPSK	135	138		14.58		15.3	0.0
100	QPSK	270	0		14.55			
100	16QAM	1	1		14.48		15.3	0.0
100	64QAM	1	1		14.56		15.3	0.0
100	256QAM	1	1		14.55		15.3	0.0
Channel				649668	650000	650334	15.3	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	14.44	14.64	14.60	15.3	0.0
Channel				649334	650000	650668	15.3	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	14.53	14.61	14.62	15.3	0.0
Channel				649000	650000	651000	15.3	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	14.52	14.63	14.60	15.3	0.0
Channel				648668	650000	651334	15.3	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	14.55	14.62	14.56	15.3	0.0
Channel				648334	650000	651668	15.3	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	14.65	14.61	14.59	15.3	0.0
Channel				648000	650000	652000	15.3	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	14.62	14.48	14.44	15.3	0.0
Channel				647668	650000	652334	15.3	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	14.62	14.49	14.52	15.3	0.0
Channel				647334	650000	652668	15.3	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	14.61	14.50	14.57	15.3	0.0



Part27Q 78_FCC								
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		15.3	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		14.50			
100	PI/2 BPSK	1	137		14.53		15.3	0.0
100	PI/2 BPSK	1	271		14.41			
100	PI/2 BPSK	135	0		14.47			
100	PI/2 BPSK	135	69		14.53		15.3	0.0
100	PI/2 BPSK	135	138		14.43			
100	PI/2 BPSK	270	0		14.42			
100	QPSK	1	1		14.58		15.3	0.0
100	QPSK	1	137		14.40			
100	QPSK	1	271		14.40			
100	QPSK	135	0		14.51		15.3	0.0
100	QPSK	135	69		14.55			
100	QPSK	135	138		14.43			
100	QPSK	270	0		14.41		15.3	0.0
100	16QAM	1	1		14.40			
100	64QAM	1	1		14.47			
100	256QAM	1	1		14.48		15.3	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	14.48	14.46	14.48	15.3	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	14.38	14.38	14.51	15.3	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	14.57	14.54	14.43	15.3	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	14.48	14.38	14.40	15.3	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	14.45	14.57	14.47	15.3	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	14.37	14.49	14.51	15.3	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	14.43	14.39	14.52	15.3	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	14.43	14.39	14.52	15.3	0.0



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n7								
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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.72	22.78	22.64	23.5	0.0
50	PI/2 BPSK	1	135	22.62	22.75	22.69		
50	PI/2 BPSK	1	268	22.68	22.74	22.63		
50	PI/2 BPSK	135	0	22.05	22.21	22.15	23.5	0.0
50	PI/2 BPSK	135	68	22.52	22.69	22.60	23.5	0.0
50	PI/2 BPSK	135	135	22.17	22.29	22.21	23.5	0.0
50	PI/2 BPSK	270	0	22.11	22.17	22.05		
50	QPSK	1	1	22.81	22.82	22.78	23.5	0.0
50	QPSK	1	135	22.62	22.79	22.76		
50	QPSK	1	268	22.56	22.72	22.65		
50	QPSK	135	0	21.61	21.65	21.50	22.5	1.0
50	QPSK	135	68	22.66	22.72	22.58	23.5	0.0
50	QPSK	135	135	21.56	21.69	21.55	22.5	1.0
50	QPSK	270	0	21.64	21.77	21.69		
50	16QAM	1	1	21.88	21.97	21.89	23.0	0.5
50	64QAM	1	1	20.25	20.39	20.35	21.5	2.0
50	256QAM	1	1	18.35	18.41	18.29	19.5	4.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	22.67	22.72	22.70	23.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.64	22.67	22.63	23.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.71	22.69	22.68	23.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.78	22.69	22.66	23.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.66	22.76	22.68	23.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.69	22.67	22.68	23.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.65	22.66	22.63	23.5	0.0



n41_FCC								
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	22.37	22.49	22.45	24.0	0.0
100	PI/2 BPSK	1	137	22.38	22.45	22.42		
100	PI/2 BPSK	1	271	22.50	22.53	22.49		
100	PI/2 BPSK	135	0	22.34	22.48	22.42	24.0	0.0
100	PI/2 BPSK	135	69	22.26	22.40	22.36	24.0	0.0
100	PI/2 BPSK	135	138	22.24	22.35	22.18	24.0	0.0
100	PI/2 BPSK	270	0	22.39	22.41	22.27		
100	QPSK	1	1	22.63	22.68	22.59	24.0	0.0
100	QPSK	1	137	22.44	22.50	22.33		
100	QPSK	1	271	22.53	22.57	22.51		
100	QPSK	135	0	22.21	22.34	22.24	24.0	0.0
100	QPSK	135	69	22.25	22.43	22.26	24.0	0.0
100	QPSK	135	138	22.35	22.38	22.30	24.0	0.0
100	QPSK	270	0	22.38	22.49	22.35		
100	16QAM	1	1	22.24	22.40	22.33	24.0	0.0
100	64QAM	1	1	22.17	22.32	22.15	24.0	0.0
100	256QAM	1	1	21.56	21.62	21.54	22.5	1.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.58	22.63	22.45	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	22.61	22.61	22.44	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	22.59	22.56	22.49	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	22.55	22.61	22.50	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	22.58	22.51	22.56	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	22.46	22.52	22.47	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	22.61	22.52	22.47	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	22.59	22.61	22.44	24.0	0.0



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Par270 n77_FCC								
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	22.65	22.82	22.70	24.0	0.0
100	PI/2 BPSK	1	137	22.91	22.97	22.89		
100	PI/2 BPSK	1	271	22.76	22.85	22.70		
100	PI/2 BPSK	135	0	22.35	22.42	22.25	23.5	0.5
100	PI/2 BPSK	135	69	22.86	22.98	22.86	24.0	0.0
100	PI/2 BPSK	135	138	22.35	22.40	22.32	23.5	0.5
100	PI/2 BPSK	270	0	22.35	22.46	22.31		
100	QPSK	1	1	22.96	23.04	22.89	24.0	0.0
100	QPSK	1	137	22.74	22.89	22.87		
100	QPSK	1	271	22.75	22.82	22.74		
100	QPSK	135	0	21.78	21.91	21.89	23.0	1.0
100	QPSK	135	69	22.95	23.01	22.98	24.0	0.0
100	QPSK	135	138	21.88	21.93	21.77	23.0	1.0
100	QPSK	270	0	21.63	21.81	21.78		
100	16QAM	1	1	21.87	21.98	21.90	23.0	1.0
100	64QAM	1	1	20.00	20.04	20.00	21.5	2.5
100	256QAM	1	1	18.02	18.06	18.03	19.5	4.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.94	22.98	22.72	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	22.91	22.93	22.74	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.89	22.97	22.77	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	22.78	22.87	22.76	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	22.87	22.92	22.72	24.0	0.0



Par270 n77_FCC PC2								
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	25.83	25.92	25.89	27.0	0.0
100	PI/2 BPSK	1	137	25.91	26.04	25.87		
100	PI/2 BPSK	1	271	26.01	26.06	25.91		
100	PI/2 BPSK	135	0	25.60	25.62	25.59	26.5	0.5
100	PI/2 BPSK	135	69	25.94	26.08	25.91	27.0	0.0
100	PI/2 BPSK	135	138	25.58	25.61	25.56	26.5	0.5
100	PI/2 BPSK	270	0	25.41	25.59	25.41		
100	QPSK	1	1	26.02	26.23	26.06	27.0	0.0
100	QPSK	1	137	25.99	26.08	25.91		
100	QPSK	1	271	25.87	26.05	25.97		
100	QPSK	135	0	24.99	25.08	24.97	26.0	1.0
100	QPSK	135	69	25.95	26.11	26.06	27.0	0.0
100	QPSK	135	138	25.00	25.07	25.01	26.0	1.0
100	QPSK	270	0	25.03	25.09	24.97		
100	16QAM	1	1	24.84	24.98	24.93	26.0	1.0
100	64QAM	1	1	23.10	23.15	22.99	24.5	2.5
100	256QAM	1	1	21.13	21.20	21.16	22.5	4.5
Channel				649334	656000	662668	27.0	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	25.90	26.01	25.82	27.0	0.0
Channel				648668	656000	663334	27.0	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	25.85	25.95	25.93	27.0	0.0
Channel				648000	656000	664000	27.0	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	25.87	25.98	25.95	27.0	0.0
Channel				647668	656000	664334	27.0	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	25.95	26.02	25.89	27.0	0.0
Channel				647334	656000	664668	27.0	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	25.88	26.08	25.81	27.0	0.0



Part27Q n77_FCC								
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		22.92		23.5	0.5
100	PI/2 BPSK	1	137		23.05			
100	PI/2 BPSK	1	271		23.18			
100	PI/2 BPSK	135	0		22.62		24.0	0.0
100	PI/2 BPSK	135	69		23.19		23.5	0.5
100	PI/2 BPSK	135	138		22.66			
100	PI/2 BPSK	270	0		22.59		24.0	0.0
100	QPSK	1	1		23.23			
100	QPSK	1	137		23.09			
100	QPSK	1	271		23.00		23.0	1.0
100	QPSK	135	0		22.08			
100	QPSK	135	69		23.14		24.0	0.0
100	QPSK	135	138		22.16		23.0	1.0
100	QPSK	270	0		22.11			
100	16QAM	1	1		21.96		23.0	1.0
100	64QAM	1	1		20.16		21.5	2.5
100	256QAM	1	1		18.23		19.5	4.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	23.12	23.06	23.05	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	23.14	23.21	23.11	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	23.08	23.13	23.13	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	23.01	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	23.07	23.06	23.15	24.0	0.0



Part27Q n77_FCC PC2								
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		25.99		26.5	0.5
100	PI/2 BPSK	1	137		26.16			
100	PI/2 BPSK	1	271		26.23			
100	PI/2 BPSK	135	0		25.58		27.0	0.0
100	PI/2 BPSK	135	69		26.21			
100	PI/2 BPSK	135	138		25.76			
100	PI/2 BPSK	270	0		25.71		26.0	1.0
100	QPSK	1	1		26.24			
100	QPSK	1	137		26.21			
100	QPSK	1	271		26.11		27.0	0.0
100	QPSK	135	0		25.18			
100	QPSK	135	69		26.20			
100	QPSK	135	138		25.21		26.0	1.0
100	QPSK	270	0		25.23			
100	16QAM	1	1		25.06			
100	64QAM	1	1		23.38		24.5	2.5
100	256QAM	1	1		21.21		22.5	4.5
Channel				632668	633334	634000	27.0	0.0
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	26.04	26.19	26.18	27.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02	27.0	0.0
60	QPSK	1	1	26.08	26.12	26.17		
Channel				631334	633334	635334	27.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	26.01	26.13	26.16	27.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02	27.0	0.0
30	QPSK	1	1	26.16	26.14	26.13		
Channel				630668	633334	636000	27.0	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	26.04	26.11	26.14		



Part270 n78_FCC								
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		22.84		24.0	0.0
100	PI/2 BPSK	1	137		22.98			
100	PI/2 BPSK	1	271		22.91		23.5	0.5
100	PI/2 BPSK	135	0		22.38			
100	PI/2 BPSK	135	69		22.90		24.0	0.0
100	PI/2 BPSK	135	138		22.26			
100	PI/2 BPSK	270	0		22.38		23.5	0.5
100	QPSK	1	1		22.96			
100	QPSK	1	137		22.84		24.0	0.0
100	QPSK	1	271		22.81			
100	QPSK	135	0		21.86		23.0	1.0
100	QPSK	135	69		22.82			
100	QPSK	135	138		21.79		24.0	0.0
100	QPSK	270	0		21.82			
100	16QAM	1	1		21.59		23.0	1.0
100	64QAM	1	1		20.36			
100	256QAM	1	1		18.38		21.5	2.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	24.0	0.0
90	QPSK	1	1	22.79	22.92	22.84		
Channel				649334	650000	650668	24.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.84	22.83	22.86	24.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	24.0	0.0
70	QPSK	1	1	22.89	22.93	22.76		
Channel				648668	650000	651334	24.0	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.82	22.83	22.79	24.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	24.0	0.0
50	QPSK	1	1	22.79	22.80	22.79		
Channel				648000	650000	652000	24.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.86	22.81	22.80	24.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	24.0	0.0
30	QPSK	1	1	22.76	22.80	22.82		
Channel				647334	650000	652668	24.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.75	22.88	22.82	24.0	0.0



Part270 n78_FCC PC2								
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			
100	PI/2 BPSK	1	1		26.05		27.0	0.0
100	PI/2 BPSK	1	137		26.07			
100	PI/2 BPSK	1	271		26.02			
100	PI/2 BPSK	135	0		25.46		26.5	0.5
100	PI/2 BPSK	135	69		25.99		27.0	0.0
100	PI/2 BPSK	135	138		25.50		26.5	0.5
100	PI/2 BPSK	270	0		25.45			
100	QPSK	1	1		26.09		27.0	0.0
100	QPSK	1	137		26.03			
100	QPSK	1	271		25.94			
100	QPSK	135	0		24.98		26.0	1.0
100	QPSK	135	69		26.01		27.0	0.0
100	QPSK	135	138		24.93		26.0	1.0
100	QPSK	270	0		24.97			
100	16QAM	1	1		24.77		26.0	1.0
100	64QAM	1	1		23.61		24.5	2.5
100	256QAM	1	1		21.45		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	25.96	25.93	26.02	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	26.02	26.03	26.00	27.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	25.93	26.04	26.01	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	26.03	25.92	26.05	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	25.96	25.91	26.01	27.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.96	25.94	26.05	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	26.04	25.92	25.97	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	25.97	26.06	26.02	27.0	0.0



Part27Q 78_FCC								
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		22.96		23.5	0.5
100	PI/2 BPSK	1	137		23.18			
100	PI/2 BPSK	1	271		23.20		24.0	0.0
100	PI/2 BPSK	135	0		22.54			
100	PI/2 BPSK	135	69		23.18		23.5	0.5
100	PI/2 BPSK	135	138		22.66			
100	PI/2 BPSK	270	0		22.63		24.0	0.0
100	QPSK	1	1		23.26			
100	QPSK	1	137		23.14		23.0	1.0
100	QPSK	1	271		23.03			
100	QPSK	135	0		22.06		24.0	0.0
100	QPSK	135	69		23.14			
100	QPSK	135	138		22.17		23.0	1.0
100	QPSK	270	0		22.09			
100	16QAM	1	1		21.77		23.0	1.0
100	64QAM	1	1		20.59		21.5	2.5
100	256QAM	1	1		18.43		19.5	4.5
Channel				633000	633334	633668	24.0	0.0
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	23.03	23.13	22.96	24.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510	24.0	0.0
80	QPSK	1	1	23.00	23.19	23.00		
Channel				632334	633334	634334	24.0	0.0
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	23.12	23.09	23.01	24.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02	24.0	0.0
60	QPSK	1	1	23.00	23.04	22.93		
Channel				631668	633334	635000	24.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	23.03	23.18	22.97	24.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01	24.0	0.0
40	QPSK	1	1	23.14	23.09	23.08		
Channel				631000	633334	635668	24.0	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	23.00	23.10	22.99	24.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540	24.0	0.0
20	QPSK	1	1	23.03	23.15	23.01		



Part27Q 78_FCC PC2								
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		26.19			
100	PI/2 BPSK	1	137		26.31		26.5	0.5
100	PI/2 BPSK	1	271		26.13			
100	PI/2 BPSK	135	0		25.73			
100	PI/2 BPSK	135	69		26.33		27.0	0.0
100	PI/2 BPSK	135	138		25.81			
100	PI/2 BPSK	270	0		25.79			
100	QPSK	1	1		26.44		27.0	0.0
100	QPSK	1	137		26.29			
100	QPSK	1	271		26.31			
100	QPSK	135	0		25.29		26.0	1.0
100	QPSK	135	69		26.32			
100	QPSK	135	138		25.28			
100	QPSK	270	0		25.30		26.0	1.0
100	16QAM	1	1		25.24			
100	64QAM	1	1		23.54			
100	256QAM	1	1		21.66		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	26.36	26.29	26.30	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	26.23	26.30	26.15	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	26.35	26.25	26.28	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	26.36	26.30	26.29	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	26.32	26.24	26.17	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	26.25	26.28	26.30	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	26.29	26.34	26.26	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	26.35	26.34	26.17	27.0	0.0



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n41_FCC								
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	18.6	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	17.83	17.98	17.95	18.6	0.0
100	PI/2 BPSK	1	137	17.85	17.99	17.92		
100	PI/2 BPSK	1	271	17.93	17.97	17.78		
100	PI/2 BPSK	135	0	17.96	17.96	17.82	18.6	0.0
100	PI/2 BPSK	135	69	17.80	17.94	17.85	18.6	0.0
100	PI/2 BPSK	135	138	17.78	18.02	17.86	18.6	0.0
100	PI/2 BPSK	270	0	17.96	18.04	17.96	18.6	0.0
100	QPSK	1	1	17.92	18.09	17.93		
100	QPSK	1	137	17.95	18.08	17.96		
100	QPSK	1	271	17.90	17.92	17.92	18.6	0.0
100	QPSK	135	0	17.61	17.88	17.82		
100	QPSK	135	69	17.97	18.02	18.01		
100	QPSK	135	138	17.95	18.01	17.87	18.6	0.0
100	QPSK	270	0	17.72	17.79	17.72	18.6	0.0
100	16QAM	1	1	17.58	17.65	17.68		
100	64QAM	1	1	17.54	17.71	17.57		
100	256QAM	1	1	17.74	17.74	17.62	18.6	0.0
Channel				508200	518598	528996	18.6	0.0
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.96	18.06	17.95	18.6	0.0
Channel				507204	518598	529998	18.6	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.95	18.05	17.89	18.6	0.0
Channel				506202	518598	531000	18.6	0.0
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	17.84	18.08	17.99	18.6	0.0
Channel				505200	518598	531996	18.6	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.89	18.03	17.95	18.6	0.0
Channel				504204	518598	532998	18.6	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	17.98	18.03	17.93	18.6	0.0
Channel				503202	518598	534000	18.6	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.87	18.02	17.95	18.6	0.0
Channel				502200	518598	534996	18.6	0.0
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.94	18.03	17.86	18.6	0.0
Channel				501204	518598	535998	18.6	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.03	18.08	17.81	18.6	0.0



Par270 n77_FCC								
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	18.2	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	17.08	17.26	17.22		
100	PI/2 BPSK	1	137	17.05	17.09	17.03	18.2	0.0
100	PI/2 BPSK	1	271	17.09	17.22	17.09		
100	PI/2 BPSK	135	0	17.13	17.12	17.03		
100	PI/2 BPSK	135	69	17.08	17.18	17.00	18.2	0.0
100	PI/2 BPSK	135	138	16.95	17.10	16.94		
100	PI/2 BPSK	270	0	17.23	17.26	17.06		
100	QPSK	1	1	17.27	17.32	17.23	18.2	0.0
100	QPSK	1	137	17.24	17.23	17.17		
100	QPSK	1	271	17.20	17.20	17.20		
100	QPSK	135	0	16.92	17.08	16.92	18.2	0.0
100	QPSK	135	69	17.06	17.20	17.00		
100	QPSK	135	138	16.89	17.09	16.88		
100	QPSK	270	0	17.16	17.27	17.18	18.2	0.0
100	16QAM	1	1	17.03	17.23	17.18		
100	64QAM	1	1	17.21	17.20	17.21		
100	256QAM	1	1	16.96	17.16	17.07	18.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.10	17.29	17.12	18.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.22	17.34	17.20	18.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.05	17.11	17.22	18.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.18	17.13	17.15	18.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.29	17.26	17.17	18.2	0.0



Part27Q n77_FCC								
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		18.2	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.75		18.2	0.0
100	PI/2 BPSK	1	137		16.67			
100	PI/2 BPSK	1	271		16.65			
100	PI/2 BPSK	135	0		16.73		18.2	0.0
100	PI/2 BPSK	135	69		16.77		18.2	0.0
100	PI/2 BPSK	135	138		16.71		18.2	0.0
100	PI/2 BPSK	270	0		16.63			
100	QPSK	1	1		16.79		18.2	0.0
100	QPSK	1	137		16.75			
100	QPSK	1	271		16.58			
100	QPSK	135	0		16.64		18.2	0.0
100	QPSK	135	69		16.74		18.2	0.0
100	QPSK	135	138		16.58		18.2	0.0
100	QPSK	270	0		16.67			
100	16QAM	1	1		16.71		18.2	0.0
100	64QAM	1	1		16.68		18.2	0.0
100	256QAM	1	1		16.63		18.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.60	16.71	16.69	18.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.61	16.63	16.67	18.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.68	16.75	16.77	18.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.78	16.74	16.69	18.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.66	16.74	16.68	18.2	0.0



Part270 n78_FCC								
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	18.2	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		16.81		18.2	0.0
100	PI/2 BPSK	1	137		16.90			
100	PI/2 BPSK	1	271		16.75			
100	PI/2 BPSK	135	0		16.92		18.2	0.0
100	PI/2 BPSK	135	69		16.83		18.2	0.0
100	PI/2 BPSK	135	138		16.80		18.2	0.0
100	PI/2 BPSK	270	0		16.90			
100	QPSK	1	1		16.94		18.2	0.0
100	QPSK	1	137		16.81			
100	QPSK	1	271		16.93			
100	QPSK	135	0		16.88		18.2	0.0
100	QPSK	135	69		16.89		18.2	0.0
100	QPSK	135	138		16.80		18.2	0.0
100	QPSK	270	0		16.86			
100	16QAM	1	1		16.90		18.2	0.0
100	64QAM	1	1		16.81		18.2	0.0
100	256QAM	1	1		16.93		18.2	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	16.79	16.73	16.82	18.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	16.78	16.74	16.92	18.2	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	16.90	16.91	16.91	18.2	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	16.73	16.85	16.85	18.2	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	16.89	16.87	16.86	18.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.93	16.76	16.73	18.2	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	16.85	16.85	16.83	18.2	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	16.90	16.92	16.82	18.2	0.0



Part27Q 78_FCC								
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		18.2	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.84			
100	PI/2 BPSK	1	137		16.72		18.2	0.0
100	PI/2 BPSK	1	271		16.87			
100	PI/2 BPSK	135	0		16.81			
100	PI/2 BPSK	135	69		16.77		18.2	0.0
100	PI/2 BPSK	135	138		16.74			
100	PI/2 BPSK	270	0		16.85			
100	QPSK	1	1		16.88		18.2	0.0
100	QPSK	1	137		16.83			
100	QPSK	1	271		16.70			
100	QPSK	135	0		16.75		18.2	0.0
100	QPSK	135	69		16.84			
100	QPSK	135	138		16.66			
100	QPSK	270	0		16.75		18.2	0.0
100	16QAM	1	1		16.81			
100	64QAM	1	1		16.76			
100	256QAM	1	1		16.72		18.2	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.68	16.71	16.67	18.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.77	16.80	16.85	18.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	16.74	16.76	16.73	18.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.69	16.75	16.81	18.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.69	16.79	16.73	18.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.79	16.80	16.87	18.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.80	16.86	16.85	18.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.69	16.79	16.70	18.2	0.0



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n41_FCC								
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	19.76	19.88	19.71	21.0	0.0
100	PI/2 BPSK	1	137	19.78	19.94	19.88		
100	PI/2 BPSK	1	271	19.87	19.98	19.82		
100	PI/2 BPSK	135	0	19.79	19.90	19.84	21.0	0.0
100	PI/2 BPSK	135	69	19.85	19.91	19.88	21.0	0.0
100	PI/2 BPSK	135	138	19.90	19.93	19.83	21.0	0.0
100	PI/2 BPSK	270	0	19.70	19.86	19.80		
100	QPSK	1	1	19.86	20.07	19.90	21.0	0.0
100	QPSK	1	137	19.97	20.00	19.93		
100	QPSK	1	271	19.85	19.97	19.91		
100	QPSK	135	0	19.81	19.85	19.78	21.0	0.0
100	QPSK	135	69	19.86	19.96	19.87	21.0	0.0
100	QPSK	135	138	19.81	19.90	19.74	21.0	0.0
100	QPSK	270	0	19.78	19.93	19.84		
100	16QAM	1	1	19.75	19.84	19.75	21.0	0.0
100	64QAM	1	1	19.80	19.85	19.83	21.0	0.0
100	256QAM	1	1	19.87	19.92	19.85	21.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.76	19.96	19.83	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.83	19.98	19.78	21.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.71	19.98	19.88	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.78	19.98	19.88	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.83	19.97	19.80	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.70	19.90	19.77	21.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.82	20.02	19.81	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.77	19.95	19.86	21.0	0.0



Par270 n77_FCC								
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	20.2	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.43	19.59	19.39		
100	PI/2 BPSK	1	137	19.40	19.50	19.43	20.2	0.0
100	PI/2 BPSK	1	271	19.46	19.56	19.37		
100	PI/2 BPSK	135	0	19.48	19.54	19.55		
100	PI/2 BPSK	135	69	19.54	19.61	19.55	20.2	0.0
100	PI/2 BPSK	135	138	19.42	19.55	19.52	20.2	0.0
100	PI/2 BPSK	270	0	19.57	19.60	19.58		
100	QPSK	1	1	19.47	19.62	19.51		
100	QPSK	1	137	19.43	19.61	19.49	20.2	0.0
100	QPSK	1	271	19.28	19.48	19.31		
100	QPSK	135	0	19.35	19.47	19.41		
100	QPSK	135	69	19.55	19.56	19.41	20.2	0.0
100	QPSK	135	138	19.29	19.47	19.49	20.2	0.0
100	QPSK	270	0	19.34	19.45	19.42		
100	16QAM	1	1	19.47	19.50	19.39		
100	64QAM	1	1	19.27	19.46	19.39	20.2	0.0
100	256QAM	1	1	19.39	19.48	19.29	20.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.42	19.45	19.30	20.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.27	19.45	19.51	20.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.43	19.44	19.44	20.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.35	19.52	19.44	20.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.28	19.54	19.34	20.2	0.0



Part27Q n77_FCC								
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		20.2	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.81		20.2	0.0
100	PI/2 BPSK	1	137		18.79			
100	PI/2 BPSK	1	271		18.73			
100	PI/2 BPSK	135	0		18.74		20.2	0.0
100	PI/2 BPSK	135	69		18.87		20.2	0.0
100	PI/2 BPSK	135	138		18.85		20.2	0.0
100	PI/2 BPSK	270	0		18.71			
100	QPSK	1	1		18.88		20.2	0.0
100	QPSK	1	137		18.80			
100	QPSK	1	271		18.68			
100	QPSK	135	0		18.75		20.2	0.0
100	QPSK	135	69		18.86		20.2	0.0
100	QPSK	135	138		18.83		20.2	0.0
100	QPSK	270	0		18.79			
100	16QAM	1	1		18.86		20.2	0.0
100	64QAM	1	1		18.78		20.2	0.0
100	256QAM	1	1		18.71		20.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.83	18.85	18.75	20.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.73	18.70	18.82	20.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.76	18.70	18.86	20.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.86	18.68	18.70	20.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.76	18.73	18.86	20.2	0.0



Part270 n78_FCC								
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	20.2	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		19.09		20.2	0.0
100	PI/2 BPSK	1	137		19.03			
100	PI/2 BPSK	1	271		18.95			
100	PI/2 BPSK	135	0		19.04		20.2	0.0
100	PI/2 BPSK	135	69		19.12		20.2	0.0
100	PI/2 BPSK	135	138		18.98		20.2	0.0
100	PI/2 BPSK	270	0		19.13			
100	QPSK	1	1		19.16		20.2	0.0
100	QPSK	1	137		19.08			
100	QPSK	1	271		18.94			
100	QPSK	135	0		19.03		20.2	0.0
100	QPSK	135	69		19.10		20.2	0.0
100	QPSK	135	138		19.04		20.2	0.0
100	QPSK	270	0		19.09			
100	16QAM	1	1		18.97		20.2	0.0
100	64QAM	1	1		19.02		20.2	0.0
100	256QAM	1	1		18.96		20.2	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.00	18.99	19.15	20.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	18.99	19.14	19.04	20.2	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.05	18.99	19.07	20.2	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.10	19.14	19.01	20.2	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.11	19.04	19.14	20.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.03	19.06	18.98	20.2	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.07	19.12	19.09	20.2	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	18.94	19.00	19.05	20.2	0.0



Part27Q 78_FCC								
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		20.2	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.99			
100	PI/2 BPSK	1	137		18.89		20.2	0.0
100	PI/2 BPSK	1	271		19.00			
100	PI/2 BPSK	135	0		19.03			
100	PI/2 BPSK	135	69		18.88		20.2	0.0
100	PI/2 BPSK	135	138		18.84			
100	PI/2 BPSK	270	0		19.00			
100	QPSK	1	1		19.06		20.2	0.0
100	QPSK	1	137		18.92			
100	QPSK	1	271		18.87			
100	QPSK	135	0		19.00		20.2	0.0
100	QPSK	135	69		19.02			
100	QPSK	135	138		18.95			
100	QPSK	270	0		18.99		20.2	0.0
100	16QAM	1	1		19.00			
100	64QAM	1	1		18.93			
100	256QAM	1	1		18.84		20.2	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.95	18.96	18.85	20.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.91	18.85	18.95	20.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.96	18.86	19.02	20.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.90	18.94	18.88	20.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	18.96	19.05	19.04	20.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.97	18.84	19.05	20.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.84	18.85	18.93	20.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.95	18.94	19.04	20.2	0.0

Reduced Power Mode for DSI 1

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n2								
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	19.4	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	18.09	18.22	18.18		
20	PI/2 BPSK	1	53	18.11	18.23	18.18	19.4	0.0
20	PI/2 BPSK	1	104	18.11	18.18	18.07		
20	PI/2 BPSK	50	0	18.17	18.21	18.08		
20	PI/2 BPSK	50	28	18.12	18.25	18.19	19.4	0.0
20	PI/2 BPSK	50	56	18.20	18.24	18.20		
20	PI/2 BPSK	100	0	18.14	18.23	18.14		
20	QPSK	1	1	18.28	18.29	18.23	19.4	0.0
20	QPSK	1	53	18.04	18.18	18.14		
20	QPSK	1	104	18.13	18.24	18.14		
20	QPSK	50	0	18.10	18.20	18.16	19.4	0.0
20	QPSK	50	28	18.17	18.23	18.10		
20	QPSK	50	56	18.12	18.17	18.09		
20	QPSK	100	0	18.08	18.21	18.06	19.4	0.0
20	16QAM	1	1	18.11	18.19	18.14		
20	64QAM	1	1	18.07	18.15	18.10		
20	256QAM	1	1	17.88	17.91	17.82	19.4	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	18.24	18.25	18.11	19.4	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	18.19	18.16	18.11	19.4	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	18.20	18.19	18.12	19.4	0.0

n5								
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	22.24	22.31	22.24	23.2	0.0
20	PI/2 BPSK	1	53	22.20	22.27	22.22		
20	PI/2 BPSK	1	104	22.20	22.26	22.22		
20	PI/2 BPSK	50	0	22.23	22.28	22.32	23.2	0.0
20	PI/2 BPSK	50	28	22.21	22.31	22.20	23.2	0.0
20	PI/2 BPSK	50	56	22.21	22.24	22.13	23.2	0.0
20	PI/2 BPSK	100	0	22.30	22.29	22.24		
20	QPSK	1	1	22.25	22.34	22.30	23.2	0.0
20	QPSK	1	53	22.23	22.27	22.16		
20	QPSK	1	104	22.17	22.32	22.22		
20	QPSK	50	0	22.24	22.29	22.15	23.2	0.0
20	QPSK	50	28	22.23	22.32	22.22	23.2	0.0
20	QPSK	50	56	22.23	22.27	22.20	23.2	0.0
20	QPSK	100	0	22.24	22.30	22.21		
20	16QAM	1	1	22.17	22.31	22.19	23.2	0.0
20	64QAM	1	1	22.14	22.19	22.20	23.2	0.0
20	256QAM	1	1	21.52	21.64	21.58	22.5	0.7
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.25	22.26	22.24	23.2	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.28	22.27	22.21	23.2	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.30	22.30	22.26	23.2	0.0



n7								
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				505000	507000	509000	15.5	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	14.52	14.57	14.46		
50	PI/2 BPSK	1	135	14.40	14.49	14.44	15.5	0.0
50	PI/2 BPSK	1	268	14.37	14.51	14.46		
50	PI/2 BPSK	135	0	14.32	14.44	14.31		
50	PI/2 BPSK	135	68	14.33	14.48	14.43	15.5	0.0
50	PI/2 BPSK	135	135	14.43	14.58	14.44	15.5	0.0
50	PI/2 BPSK	270	0	14.37	14.47	14.43		
50	QPSK	1	1	14.49	14.62	14.56		
50	QPSK	1	135	14.38	14.53	14.39	15.5	0.0
50	QPSK	1	268	14.51	14.57	14.47		
50	QPSK	135	0	14.40	14.48	14.35		
50	QPSK	135	68	14.51	14.58	14.53	15.5	0.0
50	QPSK	135	135	14.47	14.55	14.41	15.5	0.0
50	QPSK	270	0	14.40	14.51	14.42		
50	16QAM	1	1	14.47	14.58	14.54		
50	64QAM	1	1	14.49	14.55	14.46	15.5	0.0
50	256QAM	1	1	14.42	14.47	14.39	15.5	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	14.43	14.57	14.41	15.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	14.43	14.48	14.53	15.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	14.36	14.56	14.44	15.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	14.45	14.53	14.47	15.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	14.42	14.50	14.41	15.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	14.39	14.52	14.53	15.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	14.45	14.58	14.47	15.5	0.0



n66								
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				345000	349000	353000	19.6	0.0
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	18.65	18.76	18.62		
30	PI/2 BPSK	1	80	18.62	18.74	18.59	19.6	0.0
30	PI/2 BPSK	1	158	18.62	18.67	18.64		
30	PI/2 BPSK	80	0	18.54	18.61	18.51		
30	PI/2 BPSK	80	40	18.71	18.76	18.64	19.6	0.0
30	PI/2 BPSK	80	80	18.62	18.72	18.58	19.6	0.0
30	PI/2 BPSK	160	0	18.66	18.75	18.65		
30	QPSK	1	1	18.66	18.80	18.74		
30	QPSK	1	80	18.63	18.75	18.69	19.6	0.0
30	QPSK	1	158	18.58	18.71	18.62		
30	QPSK	80	0	18.61	18.69	18.58		
30	QPSK	80	40	18.63	18.74	18.65	19.6	0.0
30	QPSK	80	80	18.55	18.70	18.55	19.6	0.0
30	QPSK	160	0	18.63	18.71	18.56		
30	16QAM	1	1	18.62	18.74	18.62		
30	64QAM	1	1	18.63	18.70	18.58	19.6	0.0
30	256QAM	1	1	18.58	18.63	18.52	19.6	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	18.52	18.76	18.60	19.6	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	18.51	18.76	18.65	19.6	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	18.63	18.72	18.59	19.6	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	18.60	18.73	18.64	19.6	0.0

n38								
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	14.48	14.48	14.33	15.3	0.0
40	PI/2 BPSK	1	53	14.30	14.37	14.36		
40	PI/2 BPSK	1	104	14.35	14.47	14.34		
40	PI/2 BPSK	50	0	14.33	14.47	14.38	15.3	0.0
40	PI/2 BPSK	50	28	14.27	14.35	14.32	15.3	0.0
40	PI/2 BPSK	50	56	14.41	14.45	14.38	15.3	0.0
40	PI/2 BPSK	100	0	14.30	14.46	14.33		
40	QPSK	1	1	14.44	14.57	14.51	15.3	0.0
40	QPSK	1	53	14.44	14.51	14.34		
40	QPSK	1	104	14.43	14.51	14.34		
40	QPSK	50	0	14.36	14.47	14.35	15.3	0.0
40	QPSK	50	28	14.33	14.44	14.35	15.3	0.0
40	QPSK	50	56	14.44	14.47	14.39	15.3	0.0
40	QPSK	100	0	14.29	14.41	14.39		
40	16QAM	1	1	14.38	14.49	14.42	15.3	0.0
40	64QAM	1	1	14.34	14.48	14.35	15.3	0.0
40	256QAM	1	1	14.29	14.42	14.34	15.3	0.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	14.58	14.58	14.55	15.3	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	PI/2 BPSK	1	1	14.55	14.61	14.50	15.3	0.0



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n41_FCC								
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	14.24	14.41	14.28	15.5	0.0
100	PI/2 BPSK	1	137	14.17	14.38	14.18		
100	PI/2 BPSK	1	271	14.30	14.29	14.11		
100	PI/2 BPSK	135	0	14.20	14.37	14.35	15.5	0.0
100	PI/2 BPSK	135	69	14.11	14.30	14.15	15.5	0.0
100	PI/2 BPSK	135	138	14.37	14.44	14.45	15.5	0.0
100	PI/2 BPSK	270	0	14.34	14.42	14.44		
100	QPSK	1	1	14.27	14.46	14.31	15.5	0.0
100	QPSK	1	137	14.20	14.32	14.13		
100	QPSK	1	271	14.23	14.38	14.39		
100	QPSK	135	0	14.36	14.35	14.22	15.5	0.0
100	QPSK	135	69	14.22	14.44	14.33	15.5	0.0
100	QPSK	135	138	14.17	14.26	14.25	15.5	0.0
100	QPSK	270	0	14.28	14.45	14.24		
100	16QAM	1	1	14.21	14.38	14.23	15.5	0.0
100	64QAM	1	1	14.28	14.27	14.25	15.5	0.0
100	256QAM	1	1	14.12	14.28	14.16	15.5	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.24	14.35	14.17	15.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	14.17	14.30	14.17	15.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	14.11	14.42	14.26	15.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	14.10	14.45	14.31	15.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	14.14	14.43	14.31	15.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.16	14.36	14.16	15.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	14.16	14.41	14.26	15.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.16	14.32	14.18	15.5	0.0

Par270 n77_FCC								
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	14.70	14.81	14.82	15.3	0.0
100	PI/2 BPSK	1	137	14.54	14.72	14.68		
100	PI/2 BPSK	1	271	14.67	14.69	14.65		
100	PI/2 BPSK	135	0	14.60	14.79	14.72	15.3	0.0
100	PI/2 BPSK	135	69	14.55	14.62	14.52	15.3	0.0
100	PI/2 BPSK	135	138	14.68	14.73	14.61	15.3	0.0
100	PI/2 BPSK	270	0	14.57	14.66	14.54		
100	QPSK	1	1	14.66	14.83	14.71	15.3	0.0
100	QPSK	1	137	14.58	14.75	14.66		
100	QPSK	1	271	14.52	14.61	14.54		
100	QPSK	135	0	14.54	14.62	14.45	15.3	0.0
100	QPSK	135	69	14.65	14.81	14.74	15.3	0.0
100	QPSK	135	138	13.73	13.73	13.64	15.3	0.0
100	QPSK	270	0	14.75	14.82	14.70		
100	16QAM	1	1	14.79	14.80	14.73	15.3	0.0
100	64QAM	1	1	14.64	14.62	14.54	15.3	0.0
100	256QAM	1	1	14.72	14.71	14.63	15.3	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	14.59	14.68	14.63	15.3	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	14.67	14.72	14.70	15.3	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	14.62	14.82	14.65	15.3	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	14.59	14.63	14.53	15.3	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	14.60	14.70	14.63	15.3	0.0



Part27Q n77_FCC								
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		15.3	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		14.65		15.3	0.0
100	PI/2 BPSK	1	137		14.68			
100	PI/2 BPSK	1	271		14.71		15.3	0.0
100	PI/2 BPSK	135	0		14.65			
100	PI/2 BPSK	135	69		14.70		15.3	0.0
100	PI/2 BPSK	135	138		14.66			
100	PI/2 BPSK	270	0		14.64		15.3	0.0
100	QPSK	1	1		14.73			
100	QPSK	1	137		14.66		15.3	0.0
100	QPSK	1	271		14.64			
100	QPSK	135	0		14.67		15.3	0.0
100	QPSK	135	69		14.70			
100	QPSK	135	138		14.61		15.3	0.0
100	QPSK	270	0		14.66			
100	16QAM	1	1		14.52		15.3	0.0
100	64QAM	1	1		14.69			
100	256QAM	1	1		14.48		15.3	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510	15.3	0.0
80	QPSK	1	1	14.70	14.61	14.60		
Channel				632000	633334	634668	15.3	0.0
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	14.72	14.68	14.63	15.3	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01	15.3	0.0
40	QPSK	1	1	14.68	14.56	14.58		
Channel				631000	633334	635668	15.3	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	14.63	14.71	14.68	15.3	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540	15.3	0.0
20	QPSK	1	1	14.57	14.71	14.58		



Part270 n78_FCC								
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	15.3	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		14.62		15.3	0.0
100	PI/2 BPSK	1	137		14.57			
100	PI/2 BPSK	1	271		14.50			
100	PI/2 BPSK	135	0		14.60		15.3	0.0
100	PI/2 BPSK	135	69		14.61		15.3	0.0
100	PI/2 BPSK	135	138		14.46		15.3	0.0
100	PI/2 BPSK	270	0		14.47			
100	QPSK	1	1		14.66			
100	QPSK	1	137		14.63		15.3	0.0
100	QPSK	1	271		14.61			
100	QPSK	135	0		14.61			
100	QPSK	135	69		14.64		15.3	0.0
100	QPSK	135	138		14.58		15.3	0.0
100	QPSK	270	0		14.55			
100	16QAM	1	1		14.48			
100	64QAM	1	1		14.56		15.3	0.0
100	256QAM	1	1		14.55		15.3	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	14.44	14.64	14.60	15.3	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	14.53	14.61	14.62	15.3	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	14.52	14.63	14.60	15.3	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	14.55	14.62	14.56	15.3	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	14.65	14.61	14.59	15.3	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	14.62	14.48	14.44	15.3	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	14.62	14.49	14.52	15.3	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	14.61	14.50	14.57	15.3	0.0



Part27Q 78_FCC								
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			
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		14.50		15.3	0.0
100	PI/2 BPSK	1	137		14.53			
100	PI/2 BPSK	1	271		14.41			
100	PI/2 BPSK	135	0		14.47		15.3	0.0
100	PI/2 BPSK	135	69		14.53		15.3	0.0
100	PI/2 BPSK	135	138		14.43		15.3	0.0
100	PI/2 BPSK	270	0		14.42			
100	QPSK	1	1		14.58			
100	QPSK	1	137		14.40		15.3	0.0
100	QPSK	1	271		14.40			
100	QPSK	135	0		14.51			
100	QPSK	135	69		14.55		15.3	0.0
100	QPSK	135	138		14.43		15.3	0.0
100	QPSK	270	0		14.41			
100	16QAM	1	1		14.40			
100	64QAM	1	1		14.47		15.3	0.0
100	256QAM	1	1		14.48		15.3	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	14.48	14.46	14.48	15.3	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	14.38	14.38	14.51	15.3	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	14.57	14.54	14.43	15.3	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	14.48	14.38	14.40	15.3	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	14.45	14.57	14.47	15.3	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	14.37	14.49	14.51	15.3	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	14.43	14.39	14.52	15.3	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	14.43	14.39	14.52	15.3	0.0



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n7								
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				505000	507000	509000	15.5	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	14.11	14.24	14.10	15.5	0.0
50	PI/2 BPSK	1	135	14.09	14.21	14.12		
50	PI/2 BPSK	1	268	14.12	14.17	14.13		
50	PI/2 BPSK	135	0	14.07	14.18	14.11	15.5	0.0
50	PI/2 BPSK	135	68	14.18	14.23	14.09	15.5	0.0
50	PI/2 BPSK	135	135	14.18	14.29	14.21	15.5	0.0
50	PI/2 BPSK	270	0	14.16	14.21	14.17		
50	QPSK	1	1	14.25	14.31	14.18	15.5	0.0
50	QPSK	1	135	14.13	14.17	14.05		
50	QPSK	1	268	14.11	14.20	14.11		
50	QPSK	135	0	14.08	14.19	14.10	15.5	0.0
50	QPSK	135	68	14.23	14.27	14.24	15.5	0.0
50	QPSK	135	135	14.11	14.25	14.10	15.5	0.0
50	QPSK	270	0	14.19	14.22	14.14		
50	16QAM	1	1	13.62	13.72	13.67	15.5	0.0
50	64QAM	1	1	14.18	14.31	14.25	15.5	0.0
50	256QAM	1	1	14.23	14.28	14.25	15.5	0.0
Channel				504000	507000	510000	15.5	0.0
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	14.12	14.20	14.07	15.5	0.0
Channel				503000	507000	511000	15.5	0.0
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	14.19	14.24	14.11	15.5	0.0
Channel				502500	507000	511500	15.5	0.0
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	14.11	14.20	14.07	15.5	0.0
Channel				502000	507000	512000	15.5	0.0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	14.13	14.24	14.12	15.5	0.0
Channel				501500	507000	512500	15.5	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	14.14	14.20	14.11	15.5	0.0
Channel				501000	507000	513000	15.5	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	14.15	14.17	14.11	15.5	0.0
Channel				500500	507000	513500	15.5	0.0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	14.14	14.24	14.11	15.5	0.0



n41_FCC PC2								
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	14.5	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	13.57	13.69	13.55		
100	PI/2 BPSK	1	137	13.68	13.76	13.66	14.5	0.0
100	PI/2 BPSK	1	271	13.64	13.72	13.63		
100	PI/2 BPSK	135	0	13.60	13.67	13.63		
100	PI/2 BPSK	135	69	13.79	13.84	13.71	14.5	0.0
100	PI/2 BPSK	135	138	13.65	13.77	13.68	14.5	0.0
100	PI/2 BPSK	270	0	13.68	13.75	13.65		
100	QPSK	1	1	13.81	13.85	13.73		
100	QPSK	1	137	13.71	13.74	13.65	14.5	0.0
100	QPSK	1	271	13.79	13.84	13.70		
100	QPSK	135	0	13.62	13.69	13.64		
100	QPSK	135	69	13.67	13.81	13.74	14.5	0.0
100	QPSK	135	138	13.66	13.76	13.69	14.5	0.0
100	QPSK	270	0	13.66	13.79	13.70		
100	16QAM	1	1	13.58	13.66	13.60		
100	64QAM	1	1	13.70	13.75	13.63	14.5	0.0
100	256QAM	1	1	13.53	13.64	13.57	14.5	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	13.73	13.75	13.63	14.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	13.68	13.77	13.60	14.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	13.74	13.81	13.58	14.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	13.68	13.74	13.68	14.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	13.70	13.82	13.60	14.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	13.75	13.72	13.67	14.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	13.74	13.78	13.63	14.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	13.75	13.75	13.59	14.5	0.0



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Par270 n77_FCC PC2								
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	17.9	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	16.94	17.08	17.04	17.9	0.0
100	PI/2 BPSK	1	137	17.07	17.10	16.99		
100	PI/2 BPSK	1	271	16.97	17.04	16.94		
100	PI/2 BPSK	135	0	16.93	17.03	16.89	17.9	0.0
100	PI/2 BPSK	135	69	17.04	17.11	16.99	17.9	0.0
100	PI/2 BPSK	135	138	17.02	17.09	17.04	17.9	0.0
100	PI/2 BPSK	270	0	16.98	17.12	17.03		
100	QPSK	1	1	17.02	17.14	16.98	17.9	0.0
100	QPSK	1	137	16.90	17.05	16.99		
100	QPSK	1	271	16.98	17.09	17.02		
100	QPSK	135	0	16.95	17.01	16.89	17.9	0.0
100	QPSK	135	69	17.00	17.12	17.05	17.9	0.0
100	QPSK	135	138	16.88	17.00	16.91	17.9	0.0
100	QPSK	270	0	16.97	17.11	17.03		
100	16QAM	1	1	16.86	16.90	16.75	17.9	0.0
100	64QAM	1	1	16.91	17.03	16.92	17.9	0.0
100	256QAM	1	1	16.84	16.97	16.93	17.9	0.0
Channel				649334	656000	662668	17.9	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	16.97	17.00	16.88	17.9	0.0
Channel				648668	656000	663334	17.9	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.92	17.07	16.90	17.9	0.0
Channel				648000	656000	664000	17.9	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.88	17.11	16.88	17.9	0.0
Channel				647668	656000	664334	17.9	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.89	17.01	16.85	17.9	0.0
Channel				647334	656000	664668	17.9	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.93	17.04	16.86	17.9	0.0



Part27Q n77_FCC PC2								
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		17.9	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.15		17.9	0.0
100	PI/2 BPSK	1	137		17.06			
100	PI/2 BPSK	1	271		17.19			
100	PI/2 BPSK	135	0		17.09		17.9	0.0
100	PI/2 BPSK	135	69		17.14		17.9	0.0
100	PI/2 BPSK	135	138		17.07		17.9	0.0
100	PI/2 BPSK	270	0		17.08			
100	QPSK	1	1		17.27		17.9	0.0
100	QPSK	1	137		17.17			
100	QPSK	1	271		17.24			
100	QPSK	135	0		17.10		17.9	0.0
100	QPSK	135	69		17.19		17.9	0.0
100	QPSK	135	138		17.13		17.9	0.0
100	QPSK	270	0		17.05			
100	16QAM	1	1		16.98		17.9	0.0
100	64QAM	1	1		17.14		17.9	0.0
100	256QAM	1	1		17.02		17.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.22	17.20	17.22	17.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.16	17.23	17.22	17.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.20	17.21	17.24	17.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.23	17.15	17.17	17.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.18	17.21	17.15	17.9	0.0



Part270 n78_FCC PC2								
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	17.9	0.0
Frequency (MHz)				3750	3750			
100	PI/2 BPSK	1	1		16.86		17.9	0.0
100	PI/2 BPSK	1	137		17.08			
100	PI/2 BPSK	1	271		16.88		17.9	0.0
100	PI/2 BPSK	135	0		16.94			
100	PI/2 BPSK	135	69		16.93		17.9	0.0
100	PI/2 BPSK	135	138		16.91			
100	PI/2 BPSK	270	0		16.92		17.9	0.0
100	QPSK	1	1		17.15			
100	QPSK	1	137		17.11		17.9	0.0
100	QPSK	1	271		17.00			
100	QPSK	135	0		16.92		17.9	0.0
100	QPSK	135	69		16.93			
100	QPSK	135	138		16.90		17.9	0.0
100	QPSK	270	0		16.91			
100	16QAM	1	1		16.93		17.9	0.0
100	64QAM	1	1		17.05		17.9	0.0
100	256QAM	1	1		16.90		17.9	0.0
Channel				649668	650000	650334	17.9	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.11	17.01	17.04	17.9	0.0
Channel				649334	650000	650668	17.9	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.01	17.01	17.03	17.9	0.0
Channel				649000	650000	651000	17.9	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	17.09	17.10	17.07	17.9	0.0
Channel				648668	650000	651334	17.9	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	17.11	17.09	17.01	17.9	0.0
Channel				648334	650000	651668	17.9	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.02	17.00	17.04	17.9	0.0
Channel				648000	650000	652000	17.9	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.03	17.00	17.07	17.9	0.0
Channel				647668	650000	652334	17.9	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.09	17.06	17.01	17.9	0.0
Channel				647334	650000	652668	17.9	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.07	17.08	17.10	17.9	0.0



Part27Q 78_FCC PC2								
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		17.9	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.15			
100	PI/2 BPSK	1	137		17.04			
100	PI/2 BPSK	1	271		17.14			
100	PI/2 BPSK	135	0		16.99		17.9	0.0
100	PI/2 BPSK	135	69		17.09		17.9	0.0
100	PI/2 BPSK	135	138		17.06		17.9	0.0
100	PI/2 BPSK	270	0		17.04			
100	QPSK	1	1		17.24		17.9	0.0
100	QPSK	1	137		17.16			
100	QPSK	1	271		17.21			
100	QPSK	135	0		16.99		17.9	0.0
100	QPSK	135	69		17.18		17.9	0.0
100	QPSK	135	138		17.03		17.9	0.0
100	QPSK	270	0		17.06			
100	16QAM	1	1		16.91		17.9	0.0
100	64QAM	1	1		17.10		17.9	0.0
100	256QAM	1	1		17.06		17.9	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.20	17.13	17.20	17.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.17	17.13	17.12	17.9	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	17.20	17.11	17.09	17.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.14	17.13	17.18	17.9	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.16	17.14	17.12	17.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.11	17.17	17.19	17.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.17	17.16	17.17	17.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.18	17.20	17.18	17.9	0.0



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n41_FCC								
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	18.6	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	17.83	17.98	17.95	18.6	0.0
100	PI/2 BPSK	1	137	17.85	17.99	17.92		
100	PI/2 BPSK	1	271	17.93	17.97	17.78		
100	PI/2 BPSK	135	0	17.96	17.96	17.82	18.6	0.0
100	PI/2 BPSK	135	69	17.80	17.94	17.85	18.6	0.0
100	PI/2 BPSK	135	138	17.78	18.02	17.86	18.6	0.0
100	PI/2 BPSK	270	0	17.96	18.04	17.96	18.6	0.0
100	QPSK	1	1	17.92	18.09	17.93		
100	QPSK	1	137	17.95	18.08	17.96		
100	QPSK	1	271	17.90	17.92	17.92	18.6	0.0
100	QPSK	135	0	17.61	17.88	17.82		
100	QPSK	135	69	17.97	18.02	18.01		
100	QPSK	135	138	17.95	18.01	17.87	18.6	0.0
100	QPSK	270	0	17.90	17.96	17.92	18.6	0.0
100	16QAM	1	1	17.74	17.87	17.86		
100	64QAM	1	1	17.71	17.89	17.79		
100	256QAM	1	1	17.91	17.96	17.85	18.6	0.0
Channel				508200	518598	528996	18.6	0.0
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.96	18.06	17.95	18.6	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.95	18.05	17.89	18.6	0.0
Channel				506202	518598	531000	18.6	0.0
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	17.84	18.08	17.99	18.6	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.89	18.03	17.95	18.6	0.0
Channel				504204	518598	532998	18.6	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	17.98	18.03	17.93	18.6	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.87	18.02	17.95	18.6	0.0
Channel				502200	518598	534996	18.6	0.0
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.94	18.03	17.86	18.6	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.03	18.08	17.81	18.6	0.0



Par270 n77_FCC								
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	17.08	17.26	17.22	18.2	0.0
100	PI/2 BPSK	1	137	17.05	17.09	17.03		
100	PI/2 BPSK	1	271	17.09	17.22	17.09		
100	PI/2 BPSK	135	0	17.13	17.12	17.03	18.2	0.0
100	PI/2 BPSK	135	69	17.08	17.18	17.00	18.2	0.0
100	PI/2 BPSK	135	138	16.95	17.10	16.94	18.2	0.0
100	PI/2 BPSK	270	0	17.23	17.26	17.06		
100	QPSK	1	1	17.27	17.32	17.23		
100	QPSK	1	137	17.24	17.23	17.17	18.2	0.0
100	QPSK	1	271	17.20	17.20	17.20		
100	QPSK	135	0	16.92	17.08	16.92		
100	QPSK	135	69	17.06	17.20	17.00	18.2	0.0
100	QPSK	135	138	16.89	17.09	16.88	18.2	0.0
100	QPSK	270	0	17.16	17.27	17.18		
100	16QAM	1	1	17.03	17.23	17.18		
100	64QAM	1	1	17.21	17.20	17.21	18.2	0.0
100	256QAM	1	1	16.96	17.16	17.07	18.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.10	17.29	17.12	18.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.22	17.34	17.20	18.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.05	17.11	17.22	18.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.18	17.13	17.15	18.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.29	17.26	17.17	18.2	0.0



Part27Q n77_FCC								
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		18.2	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.75		18.2	0.0
100	PI/2 BPSK	1	137		16.67			
100	PI/2 BPSK	1	271		16.65			
100	PI/2 BPSK	135	0		16.73		18.2	0.0
100	PI/2 BPSK	135	69		16.77		18.2	0.0
100	PI/2 BPSK	135	138		16.71		18.2	0.0
100	PI/2 BPSK	270	0		16.63			
100	QPSK	1	1		16.79		18.2	0.0
100	QPSK	1	137		16.75			
100	QPSK	1	271		16.58			
100	QPSK	135	0		16.64		18.2	0.0
100	QPSK	135	69		16.74		18.2	0.0
100	QPSK	135	138		16.58		18.2	0.0
100	QPSK	270	0		16.67			
100	16QAM	1	1		16.71		18.2	0.0
100	64QAM	1	1		16.68		18.2	0.0
100	256QAM	1	1		16.63		18.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.60	16.71	16.69	18.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.61	16.63	16.67	18.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.68	16.75	16.77	18.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.78	16.74	16.69	18.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.66	16.74	16.68	18.2	0.0



Part270 n78_FCC								
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		16.81		18.2	0.0
100	PI/2 BPSK	1	137		16.90			
100	PI/2 BPSK	1	271		16.75			
100	PI/2 BPSK	135	0		16.92		18.2	0.0
100	PI/2 BPSK	135	69		16.83		18.2	0.0
100	PI/2 BPSK	135	138		16.80		18.2	0.0
100	PI/2 BPSK	270	0		16.90			
100	QPSK	1	1		16.94		18.2	0.0
100	QPSK	1	137		16.81			
100	QPSK	1	271		16.93			
100	QPSK	135	0		16.88		18.2	0.0
100	QPSK	135	69		16.89		18.2	0.0
100	QPSK	135	138		16.80		18.2	0.0
100	QPSK	270	0		16.86			
100	16QAM	1	1		16.90		18.2	0.0
100	64QAM	1	1		16.81		18.2	0.0
100	256QAM	1	1		16.93		18.2	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	16.79	16.73	16.82	18.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	16.78	16.74	16.92	18.2	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	16.90	16.91	16.91	18.2	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	16.73	16.85	16.85	18.2	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	16.89	16.87	16.86	18.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.93	16.76	16.73	18.2	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	16.85	16.85	16.83	18.2	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	16.90	16.92	16.82	18.2	0.0



Part27Q 78_FCC								
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		18.2	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.84			
100	PI/2 BPSK	1	137		16.72		18.2	0.0
100	PI/2 BPSK	1	271		16.87			
100	PI/2 BPSK	135	0		16.81			
100	PI/2 BPSK	135	69		16.77		18.2	0.0
100	PI/2 BPSK	135	138		16.74			
100	PI/2 BPSK	270	0		16.85			
100	QPSK	1	1		16.88		18.2	0.0
100	QPSK	1	137		16.83			
100	QPSK	1	271		16.70			
100	QPSK	135	0		16.75		18.2	0.0
100	QPSK	135	69		16.84			
100	QPSK	135	138		16.66			
100	QPSK	270	0		16.75		18.2	0.0
100	16QAM	1	1		16.81			
100	64QAM	1	1		16.76			
100	256QAM	1	1		16.72		18.2	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.68	16.71	16.67	18.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.77	16.80	16.85	18.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	16.74	16.76	16.73	18.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.69	16.75	16.81	18.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.69	16.79	16.73	18.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.79	16.80	16.87	18.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.80	16.86	16.85	18.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.69	16.79	16.70	18.2	0.0



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n41_FCC								
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	19.76	19.88	19.71	21.0	0.0
100	PI/2 BPSK	1	137	19.78	19.94	19.88		
100	PI/2 BPSK	1	271	19.87	19.98	19.82		
100	PI/2 BPSK	135	0	19.79	19.90	19.84	21.0	0.0
100	PI/2 BPSK	135	69	19.85	19.91	19.88	21.0	0.0
100	PI/2 BPSK	135	138	19.90	19.93	19.83	21.0	0.0
100	PI/2 BPSK	270	0	19.70	19.86	19.80		
100	QPSK	1	1	19.86	20.07	19.90	21.0	0.0
100	QPSK	1	137	19.97	20.00	19.93		
100	QPSK	1	271	19.85	19.97	19.91		
100	QPSK	135	0	19.81	19.85	19.78	21.0	0.0
100	QPSK	135	69	19.86	19.96	19.87	21.0	0.0
100	QPSK	135	138	19.81	19.90	19.74	21.0	0.0
100	QPSK	270	0	19.78	19.93	19.84		
100	16QAM	1	1	19.75	19.84	19.75	21.0	0.0
100	64QAM	1	1	19.80	19.85	19.83	21.0	0.0
100	256QAM	1	1	19.87	19.92	19.85	21.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.76	19.96	19.83	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.83	19.98	19.78	21.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.71	19.98	19.88	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.78	19.98	19.88	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.83	19.97	19.80	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.70	19.90	19.77	21.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.82	20.02	19.81	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.77	19.95	19.86	21.0	0.0



Par270 n77_FCC								
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	20.2	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.43	19.59	19.39		
100	PI/2 BPSK	1	137	19.40	19.50	19.43	20.2	0.0
100	PI/2 BPSK	1	271	19.46	19.56	19.37		
100	PI/2 BPSK	135	0	19.48	19.54	19.55		
100	PI/2 BPSK	135	69	19.54	19.61	19.55	20.2	0.0
100	PI/2 BPSK	135	138	19.42	19.55	19.52	20.2	0.0
100	PI/2 BPSK	270	0	19.57	19.60	19.58		
100	QPSK	1	1	19.47	19.62	19.51		
100	QPSK	1	137	19.43	19.61	19.49	20.2	0.0
100	QPSK	1	271	19.28	19.48	19.31		
100	QPSK	135	0	19.35	19.47	19.41		
100	QPSK	135	69	19.55	19.56	19.41	20.2	0.0
100	QPSK	135	138	19.29	19.47	19.49	20.2	0.0
100	QPSK	270	0	19.34	19.45	19.42		
100	16QAM	1	1	19.47	19.50	19.39		
100	64QAM	1	1	19.27	19.46	19.39	20.2	0.0
100	256QAM	1	1	19.39	19.48	19.29	20.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.42	19.45	19.30	20.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.27	19.45	19.51	20.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.43	19.44	19.44	20.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.35	19.52	19.44	20.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.28	19.54	19.34	20.2	0.0



Part27Q n77_FCC								
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		20.2	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.81		20.2	0.0
100	PI/2 BPSK	1	137		18.79			
100	PI/2 BPSK	1	271		18.73			
100	PI/2 BPSK	135	0		18.74		20.2	0.0
100	PI/2 BPSK	135	69		18.87		20.2	0.0
100	PI/2 BPSK	135	138		18.85		20.2	0.0
100	PI/2 BPSK	270	0		18.71			
100	QPSK	1	1		18.88		20.2	0.0
100	QPSK	1	137		18.80			
100	QPSK	1	271		18.68			
100	QPSK	135	0		18.75		20.2	0.0
100	QPSK	135	69		18.86		20.2	0.0
100	QPSK	135	138		18.83		20.2	0.0
100	QPSK	270	0		18.79			
100	16QAM	1	1		18.86		20.2	0.0
100	64QAM	1	1		18.78		20.2	0.0
100	256QAM	1	1		18.71		20.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.83	18.85	18.75	20.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.73	18.70	18.82	20.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.76	18.70	18.86	20.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.86	18.68	18.70	20.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.76	18.73	18.86	20.2	0.0



Part270 n78_FCC								
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	20.2	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		19.09			
100	PI/2 BPSK	1	137		19.03		20.2	0.0
100	PI/2 BPSK	1	271		18.95			
100	PI/2 BPSK	135	0		19.04			
100	PI/2 BPSK	135	69		19.12		20.2	0.0
100	PI/2 BPSK	135	138		18.98		20.2	0.0
100	PI/2 BPSK	270	0		19.13			
100	QPSK	1	1		19.16			
100	QPSK	1	137		19.08		20.2	0.0
100	QPSK	1	271		18.94			
100	QPSK	135	0		19.03			
100	QPSK	135	69		19.10		20.2	0.0
100	QPSK	135	138		19.04		20.2	0.0
100	QPSK	270	0		19.09			
100	16QAM	1	1		18.97			
100	64QAM	1	1		19.02		20.2	0.0
100	256QAM	1	1		18.96		20.2	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.00	18.99	19.15	20.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	18.99	19.14	19.04	20.2	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.05	18.99	19.07	20.2	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.10	19.14	19.01	20.2	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.11	19.04	19.14	20.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.03	19.06	18.98	20.2	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.07	19.12	19.09	20.2	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	18.94	19.00	19.05	20.2	0.0