



<LTE Band 12_Ant 1_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.68	23.72	23.71	25.1
10	QPSK	1	25	23.56	23.56	23.55	
10	QPSK	1	49	23.66	23.65	23.67	
10	QPSK	25	0	22.77	22.80	22.79	24.2
10	QPSK	25	12	22.73	22.79	22.77	
10	QPSK	25	25	22.76	22.73	22.76	
10	QPSK	50	0	22.77	22.84	22.82	24.2
10	16QAM	1	0	22.90	22.92	23.02	
10	16QAM	1	25	22.92	22.93	22.96	
10	16QAM	1	49	22.89	22.84	22.96	23.2
10	16QAM	25	0	21.78	21.81	21.86	
10	16QAM	25	12	21.77	21.80	21.85	
10	16QAM	25	25	21.77	21.81	21.85	23.2
10	16QAM	50	0	21.74	21.79	21.82	
10	64QAM	1	0	21.76	21.90	21.96	
10	64QAM	1	25	21.73	21.83	21.94	22.2
10	64QAM	1	49	21.81	21.87	21.88	
10	64QAM	25	0	20.73	20.78	20.80	
10	64QAM	25	12	20.75	20.81	20.81	20.2
10	64QAM	25	25	20.75	20.80	20.83	
10	64QAM	50	0	20.76	20.82	20.84	
10	256QAM	1	0	19.27	19.29	19.28	20.2
10	256QAM	1	25	19.12	19.21	19.16	
10	256QAM	1	49	19.09	19.10	19.08	
10	256QAM	25	0	19.05	19.15	19.09	20.2
10	256QAM	25	12	19.06	19.10	19.01	
10	256QAM	25	25	19.03	19.04	19.03	
10	256QAM	50	0	19.02	19.08	19.07	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.61	23.69	23.65	25.1
5	QPSK	1	12	23.47	23.53	23.53	
5	QPSK	1	24	23.58	23.57	23.66	
5	QPSK	12	0	22.74	22.72	22.71	24.2
5	QPSK	12	7	22.70	22.69	22.70	
5	QPSK	12	13	22.68	22.70	22.71	
5	QPSK	25	0	22.67	22.82	22.76	24.2
5	16QAM	1	0	22.90	23.03	23.06	
5	16QAM	1	12	22.93	23.02	23.08	
5	16QAM	1	24	22.99	23.03	23.06	23.2
5	16QAM	12	0	21.71	21.77	21.81	
5	16QAM	12	7	21.73	21.79	21.82	
5	16QAM	12	13	21.72	21.81	21.80	23.2
5	16QAM	25	0	21.76	21.84	21.84	
5	64QAM	1	0	21.83	21.86	21.77	
5	64QAM	1	12	21.77	21.84	21.80	22.2
5	64QAM	1	24	21.81	21.87	21.91	
5	64QAM	12	0	20.67	20.76	20.76	
5	64QAM	12	7	20.69	20.77	20.75	20.2
5	64QAM	12	13	20.68	20.73	20.77	
5	64QAM	25	0	20.72	20.78	20.82	
5	256QAM	1	0	19.27	19.22	19.26	20.2
5	256QAM	1	12	19.12	19.16	19.15	
5	256QAM	1	24	19.05	19.07	19.03	
5	256QAM	12	0	19.03	19.11	19.03	20.2
5	256QAM	12	7	18.99	19.05	18.91	
5	256QAM	12	13	18.97	18.96	18.93	



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5	256QAM	25	0	18.97	19.03	18.98	Tune-up limit (dBm)
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.59	23.69	23.64	25.1
3	QPSK	1	8	23.46	23.47	23.47	
3	QPSK	1	14	23.62	23.59	23.60	
3	QPSK	8	0	22.66	22.74	22.76	24.2
3	QPSK	8	4	22.68	22.76	22.77	
3	QPSK	8	7	22.71	22.79	22.78	
3	QPSK	15	0	22.70	22.77	22.77	24.2
3	16QAM	1	0	22.93	23.10	23.09	
3	16QAM	1	8	22.85	22.99	22.93	
3	16QAM	1	14	22.91	23.03	23.05	23.2
3	16QAM	8	0	21.69	21.77	21.80	
3	16QAM	8	4	21.69	21.78	21.79	
3	16QAM	8	7	21.72	21.79	21.82	23.2
3	16QAM	15	0	21.65	21.77	21.80	
3	64QAM	1	0	21.83	21.88	21.87	
3	64QAM	1	8	21.77	21.87	21.89	23.2
3	64QAM	1	14	21.85	21.92	21.95	
3	64QAM	8	0	20.64	20.74	20.77	22.2
3	64QAM	8	4	20.67	20.76	20.80	
3	64QAM	8	7	20.64	20.76	20.83	
3	64QAM	15	0	20.64	20.77	20.80	20.2
3	256QAM	1	0	19.23	19.28	19.18	
3	256QAM	1	8	19.08	19.18	19.10	
3	256QAM	1	14	19.01	19.06	19.03	20.2
3	256QAM	8	0	18.97	19.05	19.03	
3	256QAM	8	4	19.04	19.07	18.97	
3	256QAM	8	7	18.96	18.99	19.02	20.2
3	256QAM	15	0	18.92	19.05	18.99	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.62	23.69	23.65	
1.4	QPSK	1	3	23.56	23.64	23.63	25.1
1.4	QPSK	1	5	23.61	23.61	23.62	
1.4	QPSK	3	0	23.60	23.67	23.64	
1.4	QPSK	3	1	23.59	23.65	23.62	24.2
1.4	QPSK	3	3	23.51	23.59	23.61	
1.4	QPSK	6	0	22.58	22.66	22.67	
1.4	16QAM	1	0	22.92	23.02	22.99	24.2
1.4	16QAM	1	3	22.81	22.91	22.85	
1.4	16QAM	1	5	22.87	23.03	22.92	
1.4	16QAM	3	0	22.64	22.75	22.76	23.2
1.4	16QAM	3	1	22.65	22.77	22.65	
1.4	16QAM	3	3	22.64	22.76	22.72	
1.4	16QAM	6	0	21.66	21.76	21.74	23.2
1.4	64QAM	1	0	21.81	21.82	21.88	
1.4	64QAM	1	3	21.72	21.76	21.87	
1.4	64QAM	1	5	21.80	21.77	21.85	23.2
1.4	64QAM	3	0	21.70	21.74	21.78	
1.4	64QAM	3	1	21.74	21.84	21.83	
1.4	64QAM	3	3	21.79	21.78	21.76	22.2
1.4	64QAM	6	0	20.60	20.70	20.72	
1.4	256QAM	1	0	19.20	19.20	19.26	20.2
1.4	256QAM	1	3	19.05	19.14	19.15	
1.4	256QAM	1	5	19.06	19.00	19.00	
1.4	256QAM	3	0	19.05	19.12	19.03	20.2
1.4	256QAM	3	1	18.99	19.08	19.00	
1.4	256QAM	3	3	18.93	18.96	19.01	
1.4	256QAM	6	0	19.02	19.02	19.06	20.2

**<LTE Band 13_Ant 1_Index 2>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		20.63		22.4
10	QPSK	1	25		20.52		
10	QPSK	1	49		20.55		
10	QPSK	25	0		20.73		22.4
10	QPSK	25	12		20.64		
10	QPSK	25	25		20.61		
10	QPSK	50	0		20.76		22.4
10	16QAM	1	0		20.72		
10	16QAM	1	25		20.93		
10	16QAM	1	49		20.84		22.4
10	16QAM	25	0		20.72		
10	16QAM	25	12		20.66		
10	16QAM	25	25		20.66		22.4
10	16QAM	50	0		20.72		
10	64QAM	1	0		20.66		
10	64QAM	1	25		20.77		22.4
10	64QAM	1	49		20.76		
10	64QAM	25	0		20.68		
10	64QAM	25	12		20.64		22.4
10	64QAM	25	25		20.61		
10	64QAM	50	0		20.75		
10	256QAM	1	0		19.40		20.7
10	256QAM	1	25		19.52		
10	256QAM	1	49		19.46		
10	256QAM	25	0		19.69		20.7
10	256QAM	25	12		19.57		
10	256QAM	25	25		19.52		
10	256QAM	50	0		19.64		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	20.60	20.59	20.56	22.4
5	QPSK	1	12	20.42	20.48	20.43	
5	QPSK	1	24	20.54	20.54	20.45	
5	QPSK	12	0	20.65	20.67	20.63	22.4
5	QPSK	12	7	20.63	20.60	20.59	
5	QPSK	12	13	20.52	20.59	20.53	
5	QPSK	25	0	20.65	20.74	20.73	22.4
5	16QAM	1	0	20.63	20.68	20.68	
5	16QAM	1	12	20.89	20.91	20.84	
5	16QAM	1	24	20.74	20.75	20.74	22.4
5	16QAM	12	0	20.68	20.64	20.69	
5	16QAM	12	7	20.63	20.58	20.65	
5	16QAM	12	13	20.65	20.60	20.60	22.4
5	16QAM	25	0	20.67	20.61	20.62	
5	64QAM	1	0	20.57	20.61	20.61	
5	64QAM	1	12	20.74	20.69	20.75	22.4
5	64QAM	1	24	20.67	20.73	20.67	
5	64QAM	12	0	20.65	20.61	20.58	
5	64QAM	12	7	20.59	20.56	20.60	22.4
5	64QAM	12	13	20.59	20.59	20.53	
5	64QAM	25	0	20.67	20.73	20.73	
5	256QAM	1	0	19.39	19.40	19.40	20.7
5	256QAM	1	12	19.57	19.54	19.57	
5	256QAM	1	24	19.45	19.42	19.40	
5	256QAM	12	0	19.66	19.68	19.66	20.7
5	256QAM	12	7	19.54	19.56	19.53	
5	256QAM	12	13	19.46	19.54	19.48	
5	256QAM	25	0	19.68	19.65	19.68	



<LTE Band 13_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		19.50		20.6
10	QPSK	1	25		19.35		
10	QPSK	1	49		19.43		
10	QPSK	25	0		19.59		20.6
10	QPSK	25	12		19.47		
10	QPSK	25	25		19.43		
10	QPSK	50	0		19.60		20.6
10	16QAM	1	0		19.62		
10	16QAM	1	25		19.86		
10	16QAM	1	49		19.76		20.6
10	16QAM	25	0		19.58		
10	16QAM	25	12		19.52		
10	16QAM	25	25		19.48		20.6
10	16QAM	50	0		19.60		
10	64QAM	1	0		19.51		
10	64QAM	1	25		19.68		20.6
10	64QAM	1	49		19.67		
10	64QAM	25	0		19.52		
10	64QAM	25	12		19.50		20.6
10	64QAM	25	25		19.45		
10	64QAM	50	0		19.61		
10	256QAM	1	0		19.47		20.6
10	256QAM	1	25		19.30		
10	256QAM	1	49		19.39		
10	256QAM	25	0		19.53		20.6
10	256QAM	25	12		19.44		
10	256QAM	25	25		19.36		
10	256QAM	50	0		19.55		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	19.46	19.45	19.43	20.6
5	QPSK	1	12	19.29	19.29	19.29	
5	QPSK	1	24	19.35	19.39	19.35	
5	QPSK	12	0	19.57	19.55	19.51	20.6
5	QPSK	12	7	19.39	19.40	19.39	
5	QPSK	12	13	19.36	19.37	19.39	
5	QPSK	25	0	19.58	19.54	19.57	20.6
5	16QAM	1	0	19.57	19.60	19.60	
5	16QAM	1	12	19.80	19.82	19.84	
5	16QAM	1	24	19.69	19.70	19.72	20.6
5	16QAM	12	0	19.53	19.51	19.51	
5	16QAM	12	7	19.50	19.48	19.50	
5	16QAM	12	13	19.42	19.45	19.41	20.6
5	16QAM	25	0	19.54	19.56	19.52	
5	64QAM	1	0	19.48	19.43	19.45	
5	64QAM	1	12	19.60	19.64	19.66	20.6
5	64QAM	1	24	19.60	19.61	19.63	
5	64QAM	12	0	19.45	19.47	19.49	
5	64QAM	12	7	19.45	19.45	19.48	20.6
5	64QAM	12	13	19.39	19.40	19.43	
5	64QAM	25	0	19.57	19.59	19.54	
5	256QAM	1	0	19.39	19.45	19.42	20.6
5	256QAM	1	12	19.24	19.27	19.25	
5	256QAM	1	24	19.32	19.36	19.36	
5	256QAM	12	0	19.48	19.47	19.49	20.6
5	256QAM	12	7	19.36	19.39	19.39	
5	256QAM	12	13	19.32	19.34	19.32	
5	256QAM	25	0	19.52	19.47	19.50	



<LTE Band 13_Ant 1_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		22.40		23.2
10	QPSK	1	25		22.11		
10	QPSK	1	49		22.16		
10	QPSK	25	0		22.27		23.2
10	QPSK	25	12		22.23		
10	QPSK	25	25		22.20		
10	QPSK	50	0		22.30		23.2
10	16QAM	1	0		22.46		
10	16QAM	1	25		22.36		
10	16QAM	1	49		22.39		23.2
10	16QAM	25	0		22.26		
10	16QAM	25	12		22.21		
10	16QAM	25	25		22.20		23.2
10	16QAM	50	0		22.26		
10	64QAM	1	0		22.31		
10	64QAM	1	25		22.36		23.2
10	64QAM	1	49		22.36		
10	64QAM	25	0		21.53		
10	64QAM	25	12		21.51		22.7
10	64QAM	25	25		21.50		
10	64QAM	50	0		21.59		
10	256QAM	1	0		19.49		20.7
10	256QAM	1	25		19.59		
10	256QAM	1	49		19.52		
10	256QAM	25	0		19.65		20.7
10	256QAM	25	12		19.66		
10	256QAM	25	25		19.59		
10	256QAM	50	0		19.74		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	22.17	22.18	22.23	23.2
5	QPSK	1	12	22.07	22.09	22.11	
5	QPSK	1	24	22.19	22.20	22.18	
5	QPSK	12	0	22.22	22.25	22.29	23.2
5	QPSK	12	7	22.23	22.22	22.28	
5	QPSK	12	13	22.20	22.21	22.25	
5	QPSK	25	0	22.24	22.23	22.25	23.2
5	16QAM	1	0	22.42	22.41	22.43	
5	16QAM	1	12	22.42	22.38	22.40	
5	16QAM	1	24	22.45	22.45	22.42	23.2
5	16QAM	12	0	22.19	22.26	22.30	
5	16QAM	12	7	22.22	22.26	22.29	
5	16QAM	12	13	22.22	22.22	22.25	23.2
5	16QAM	25	0	22.23	22.23	22.26	
5	64QAM	1	0	22.35	22.39	22.41	
5	64QAM	1	12	22.33	22.43	22.43	23.2
5	64QAM	1	24	22.41	22.42	22.42	
5	64QAM	12	0	21.51	21.57	21.61	
5	64QAM	12	7	21.56	21.59	21.60	22.7
5	64QAM	12	13	21.57	21.57	21.58	
5	64QAM	25	0	21.51	21.52	21.54	
5	256QAM	1	0	19.42	19.49	19.50	20.7
5	256QAM	1	12	19.53	19.59	19.58	
5	256QAM	1	24	19.47	19.46	19.54	
5	256QAM	12	0	19.59	19.62	19.63	20.7
5	256QAM	12	7	19.65	19.57	19.52	
5	256QAM	12	13	19.56	19.60	19.57	
5	256QAM	25	0	19.71	19.72	19.69	



<LTE Band 13_Ant 1_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		24.48		25.7
10	QPSK	1	25		24.27		
10	QPSK	1	49		24.36		
10	QPSK	25	0		23.62		24.7
10	QPSK	25	12		23.48		
10	QPSK	25	25		23.45		
10	QPSK	50	0		23.61		24.7
10	16QAM	1	0		23.59		
10	16QAM	1	25		23.83		
10	16QAM	1	49		23.68		23.7
10	16QAM	25	0		22.56		
10	16QAM	25	12		22.55		
10	16QAM	25	25		22.53		23.7
10	16QAM	50	0		22.58		
10	64QAM	1	0		22.64		
10	64QAM	1	25		22.59		23.7
10	64QAM	1	49		22.58		
10	64QAM	25	0		21.56		
10	64QAM	25	12		21.52		22.7
10	64QAM	25	25		21.50		
10	64QAM	50	0		21.58		
10	256QAM	1	0		19.54		20.7
10	256QAM	1	25		19.67		
10	256QAM	1	49		19.58		
10	256QAM	25	0		19.72		20.7
10	256QAM	25	12		19.68		
10	256QAM	25	25		19.65		
10	256QAM	50	0		19.79		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	24.43	24.47	24.44	25.7
5	QPSK	1	12	24.42	24.45	24.42	
5	QPSK	1	24	24.38	24.37	24.38	
5	QPSK	12	0	23.49	23.54	23.57	24.7
5	QPSK	12	7	23.51	23.53	23.56	
5	QPSK	12	13	23.52	23.52	23.55	
5	QPSK	25	0	23.57	23.50	23.50	24.7
5	16QAM	1	0	23.55	23.82	23.86	
5	16QAM	1	12	23.74	23.78	23.87	
5	16QAM	1	24	23.84	23.85	23.77	23.7
5	16QAM	12	0	22.48	22.57	22.58	
5	16QAM	12	7	22.55	22.57	22.58	
5	16QAM	12	13	22.53	22.55	22.53	23.7
5	16QAM	25	0	22.57	22.55	22.57	
5	64QAM	1	0	22.51	22.62	22.66	
5	64QAM	1	12	22.55	22.63	22.64	23.7
5	64QAM	1	24	22.65	22.67	22.61	
5	64QAM	12	0	21.51	21.53	21.59	
5	64QAM	12	7	21.53	21.52	21.58	22.7
5	64QAM	12	13	21.55	21.53	21.54	
5	64QAM	25	0	21.51	21.53	21.56	
5	256QAM	1	0	19.48	19.53	19.54	20.7
5	256QAM	1	12	19.61	19.66	19.62	
5	256QAM	1	24	19.49	19.50	19.58	
5	256QAM	12	0	19.63	19.64	19.68	20.7
5	256QAM	12	7	19.68	19.65	19.59	
5	256QAM	12	13	19.61	19.64	19.64	
5	256QAM	25	0	19.76	19.75	19.75	



<LTE Band 13_Ant 1_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		22.40		23.2
10	QPSK	1	25		22.11		
10	QPSK	1	49		22.16		
10	QPSK	25	0		22.27		23.2
10	QPSK	25	12		22.23		
10	QPSK	25	25		22.20		
10	QPSK	50	0		22.30		23.2
10	16QAM	1	0		22.46		
10	16QAM	1	25		22.36		
10	16QAM	1	49		22.39		23.2
10	16QAM	25	0		22.26		
10	16QAM	25	12		22.21		
10	16QAM	25	25		22.20		23.2
10	16QAM	50	0		22.26		
10	64QAM	1	0		22.31		
10	64QAM	1	25		22.36		23.2
10	64QAM	1	49		22.36		
10	64QAM	25	0		21.53		
10	64QAM	25	12		21.51		22.7
10	64QAM	25	25		21.50		
10	64QAM	50	0		21.59		
10	256QAM	1	0		19.49		20.7
10	256QAM	1	25		19.59		
10	256QAM	1	49		19.52		
10	256QAM	25	0		19.65		20.7
10	256QAM	25	12		19.66		
10	256QAM	25	25		19.59		
10	256QAM	50	0		19.74		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	22.17	22.18	22.23	23.2
5	QPSK	1	12	22.07	22.09	22.11	
5	QPSK	1	24	22.19	22.20	22.18	
5	QPSK	12	0	22.22	22.25	22.29	23.2
5	QPSK	12	7	22.23	22.22	22.28	
5	QPSK	12	13	22.20	22.21	22.25	
5	QPSK	25	0	22.24	22.23	22.25	23.2
5	16QAM	1	0	22.42	22.41	22.43	
5	16QAM	1	12	22.42	22.38	22.40	
5	16QAM	1	24	22.45	22.45	22.42	23.2
5	16QAM	12	0	22.19	22.26	22.30	
5	16QAM	12	7	22.22	22.26	22.29	
5	16QAM	12	13	22.22	22.22	22.25	23.2
5	16QAM	25	0	22.23	22.23	22.26	
5	64QAM	1	0	22.35	22.39	22.41	
5	64QAM	1	12	22.33	22.43	22.43	23.2
5	64QAM	1	24	22.41	22.42	22.42	
5	64QAM	12	0	21.51	21.57	21.61	
5	64QAM	12	7	21.56	21.59	21.60	22.7
5	64QAM	12	13	21.57	21.57	21.58	
5	64QAM	25	0	21.51	21.52	21.54	
5	256QAM	1	0	19.42	19.49	19.50	20.7
5	256QAM	1	12	19.53	19.59	19.58	
5	256QAM	1	24	19.47	19.46	19.54	
5	256QAM	12	0	19.59	19.62	19.63	20.7
5	256QAM	12	7	19.65	19.57	19.52	
5	256QAM	12	13	19.56	19.60	19.57	
5	256QAM	25	0	19.71	19.72	19.69	



<LTE Band 14_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		20.40		22.1
10	QPSK	1	25		20.32		
10	QPSK	1	49		20.31		
10	QPSK	25	0		20.49		22.1
10	QPSK	25	12		20.42		
10	QPSK	25	25		20.38		
10	QPSK	50	0		20.49		22.1
10	16QAM	1	0		20.45		
10	16QAM	1	25		20.46		
10	16QAM	1	49		20.54		22.1
10	16QAM	25	0		20.46		
10	16QAM	25	12		20.42		
10	16QAM	25	25		20.39		22.1
10	16QAM	50	0		20.43		
10	64QAM	1	0		20.35		
10	64QAM	1	25		20.34		22.1
10	64QAM	1	49		20.41		
10	64QAM	25	0		20.40		
10	64QAM	25	12		20.35		22.1
10	64QAM	25	25		20.33		
10	64QAM	50	0		20.42		
10	256QAM	1	0		19.62		20.7
10	256QAM	1	25		19.37		
10	256QAM	1	49		19.41		
10	256QAM	25	0		19.63		20.7
10	256QAM	25	12		19.50		
10	256QAM	25	25		19.47		
10	256QAM	50	0		19.66		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	20.34	20.30	20.39	22.1
5	QPSK	1	12	20.24	20.31	20.27	
5	QPSK	1	24	20.26	20.28	20.25	
5	QPSK	12	0	20.40	20.38	20.38	22.1
5	QPSK	12	7	20.38	20.41	20.40	
5	QPSK	12	13	20.28	20.28	20.31	
5	QPSK	25	0	20.46	20.45	20.47	22.1
5	16QAM	1	0	20.39	20.43	20.34	
5	16QAM	1	12	20.41	20.44	20.39	
5	16QAM	1	24	20.50	20.46	20.45	22.1
5	16QAM	12	0	20.39	20.36	20.38	
5	16QAM	12	7	20.33	20.35	20.35	
5	16QAM	12	13	20.31	20.30	20.38	22.1
5	16QAM	25	0	20.35	20.41	20.41	
5	64QAM	1	0	20.32	20.24	20.25	
5	64QAM	1	12	20.23	20.25	20.23	22.1
5	64QAM	1	24	20.30	20.40	20.37	
5	64QAM	12	0	20.36	20.39	20.37	
5	64QAM	12	7	20.30	20.28	20.32	22.1
5	64QAM	12	13	20.31	20.31	20.23	
5	64QAM	25	0	20.37	20.31	20.41	
5	256QAM	1	0	19.59	19.53	19.53	20.7
5	256QAM	1	12	19.35	19.28	19.35	
5	256QAM	1	24	19.35	19.38	19.35	
5	256QAM	12	0	19.55	19.57	19.56	20.7
5	256QAM	12	7	19.41	19.49	19.49	
5	256QAM	12	13	19.37	19.38	19.44	
5	256QAM	25	0	19.61	19.55	19.56	



<LTE Band 14_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		20.40		20.7
10	QPSK	1	25		20.32		
10	QPSK	1	49		20.31		
10	QPSK	25	0		20.49		20.7
10	QPSK	25	12		20.42		
10	QPSK	25	25		20.38		
10	QPSK	50	0		20.49		20.7
10	16QAM	1	0		20.45		
10	16QAM	1	25		20.46		
10	16QAM	1	49		20.54		20.7
10	16QAM	25	0		20.46		
10	16QAM	25	12		20.42		
10	16QAM	25	25		20.39		20.7
10	16QAM	50	0		20.43		
10	64QAM	1	0		20.35		
10	64QAM	1	25		20.34		20.7
10	64QAM	1	49		20.41		
10	64QAM	25	0		20.40		
10	64QAM	25	12		20.35		20.7
10	64QAM	25	25		20.33		
10	64QAM	50	0		20.42		
10	256QAM	1	0		19.62		20.7
10	256QAM	1	25		19.37		
10	256QAM	1	49		19.41		
10	256QAM	25	0		19.63		20.7
10	256QAM	25	12		19.50		
10	256QAM	25	25		19.47		
10	256QAM	50	0		19.66		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	20.34	20.30	20.39	20.7
5	QPSK	1	12	20.24	20.31	20.27	
5	QPSK	1	24	20.26	20.28	20.25	
5	QPSK	12	0	20.40	20.38	20.38	20.7
5	QPSK	12	7	20.38	20.41	20.40	
5	QPSK	12	13	20.28	20.28	20.31	
5	QPSK	25	0	20.46	20.45	20.47	20.7
5	16QAM	1	0	20.39	20.43	20.34	
5	16QAM	1	12	20.41	20.44	20.39	
5	16QAM	1	24	20.50	20.46	20.45	20.7
5	16QAM	12	0	20.39	20.36	20.38	
5	16QAM	12	7	20.33	20.35	20.35	
5	16QAM	12	13	20.31	20.30	20.38	20.7
5	16QAM	25	0	20.35	20.41	20.41	
5	64QAM	1	0	20.32	20.24	20.25	
5	64QAM	1	12	20.23	20.25	20.23	20.7
5	64QAM	1	24	20.30	20.40	20.37	
5	64QAM	12	0	20.36	20.39	20.37	
5	64QAM	12	7	20.30	20.28	20.32	20.7
5	64QAM	12	13	20.31	20.31	20.23	
5	64QAM	25	0	20.37	20.31	20.41	
5	256QAM	1	0	19.59	19.53	19.53	20.7
5	256QAM	1	12	19.35	19.28	19.35	
5	256QAM	1	24	19.35	19.38	19.35	
5	256QAM	12	0	19.55	19.57	19.56	20.7
5	256QAM	12	7	19.41	19.49	19.49	
5	256QAM	12	13	19.37	19.38	19.44	
5	256QAM	25	0	19.61	19.55	19.56	

**<LTE Band 14_Ant 1_Index 4>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		22.37		23.4
10	QPSK	1	25		22.15		
10	QPSK	1	49		22.29		
10	QPSK	25	0		22.42		23.4
10	QPSK	25	12		22.36		
10	QPSK	25	25		22.32		
10	QPSK	50	0		22.41		23.4
10	16QAM	1	0		22.60		
10	16QAM	1	25		22.59		
10	16QAM	1	49		22.59		23.4
10	16QAM	25	0		22.39		
10	16QAM	25	12		22.35		
10	16QAM	25	25		22.33		23.4
10	16QAM	50	0		22.36		
10	64QAM	1	0		22.46		
10	64QAM	1	25		22.56		23.4
10	64QAM	1	49		22.57		
10	64QAM	25	0		21.49		
10	64QAM	25	12		21.44		22.7
10	64QAM	25	25		21.43		
10	64QAM	50	0		21.50		
10	256QAM	1	0		19.64		20.7
10	256QAM	1	25		19.33		
10	256QAM	1	49		19.48		
10	256QAM	25	0		19.61		20.7
10	256QAM	25	12		19.52		
10	256QAM	25	25		19.56		
10	256QAM	50	0		19.62		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	22.30	22.31	22.32	23.4
5	QPSK	1	12	22.24	22.23	22.24	
5	QPSK	1	24	22.34	22.32	22.31	
5	QPSK	12	0	22.36	22.38	22.37	23.4
5	QPSK	12	7	22.35	22.37	22.37	
5	QPSK	12	13	22.35	22.36	22.35	
5	QPSK	25	0	22.39	22.35	22.34	23.4
5	16QAM	1	0	22.55	22.57	22.58	
5	16QAM	1	12	22.56	22.55	22.58	
5	16QAM	1	24	22.53	22.54	22.58	23.4
5	16QAM	12	0	22.35	22.37	22.40	
5	16QAM	12	7	22.38	22.39	22.40	
5	16QAM	12	13	22.38	22.38	22.37	23.4
5	16QAM	25	0	22.38	22.38	22.37	
5	64QAM	1	0	22.49	22.50	22.54	
5	64QAM	1	12	22.58	22.53	22.58	23.4
5	64QAM	1	24	22.55	22.53	22.53	
5	64QAM	12	0	21.47	21.51	21.53	22.7
5	64QAM	12	7	21.49	21.54	21.54	
5	64QAM	12	13	21.49	21.52	21.53	
5	64QAM	25	0	21.49	21.45	21.45	20.7
5	256QAM	1	0	19.67	19.66	19.63	
5	256QAM	1	12	19.24	19.31	19.31	
5	256QAM	1	24	19.38	19.41	19.46	20.7
5	256QAM	12	0	19.53	19.54	19.56	
5	256QAM	12	7	19.52	19.51	19.47	
5	256QAM	12	13	19.54	19.50	19.51	20.7
5	256QAM	25	0	19.53	19.56	19.61	



<LTE Band 14_Ant 1_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		24.40		25.7
10	QPSK	1	25		24.17		
10	QPSK	1	49		24.29		
10	QPSK	25	0		23.49		24.7
10	QPSK	25	12		23.44		
10	QPSK	25	25		23.39		
10	QPSK	50	0		23.48		24.7
10	16QAM	1	0		23.63		
10	16QAM	1	25		23.62		
10	16QAM	1	49		23.55		23.7
10	16QAM	25	0		22.53		
10	16QAM	25	12		22.46		
10	16QAM	25	25		22.45		23.7
10	16QAM	50	0		22.47		
10	64QAM	1	0		22.50		
10	64QAM	1	25		22.50		22.7
10	64QAM	1	49		22.64		
10	64QAM	25	0		21.47		
10	64QAM	25	12		21.46		20.7
10	64QAM	25	25		21.47		
10	64QAM	50	0		21.49		
10	256QAM	1	0		19.72		20.7
10	256QAM	1	25		19.39		
10	256QAM	1	49		19.52		
10	256QAM	25	0		19.69		20.7
10	256QAM	25	12		19.59		
10	256QAM	25	25		19.58		
10	256QAM	50	0		19.67		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	24.38	24.39	24.39	25.7
5	QPSK	1	12	24.37	24.35	24.37	
5	QPSK	1	24	24.32	24.34	24.30	
5	QPSK	12	0	23.44	23.44	23.44	24.7
5	QPSK	12	7	23.46	23.44	23.45	
5	QPSK	12	13	23.46	23.45	23.42	
5	QPSK	25	0	23.42	23.44	23.40	24.7
5	16QAM	1	0	23.63	23.68	23.73	
5	16QAM	1	12	23.70	23.71	23.76	
5	16QAM	1	24	23.80	23.67	23.68	23.7
5	16QAM	12	0	22.45	22.47	22.47	
5	16QAM	12	7	22.47	22.50	22.47	
5	16QAM	12	13	22.48	22.47	22.47	23.7
5	16QAM	25	0	22.50	22.48	22.46	
5	64QAM	1	0	22.56	22.57	22.60	
5	64QAM	1	12	22.63	22.55	22.53	23.7
5	64QAM	1	24	22.61	22.55	22.55	
5	64QAM	12	0	21.44	21.50	21.49	
5	64QAM	12	7	21.49	21.48	21.55	22.7
5	64QAM	12	13	21.50	21.53	21.50	
5	64QAM	25	0	21.43	21.42	21.45	
5	256QAM	1	0	19.70	19.69	19.71	20.7
5	256QAM	1	12	19.31	19.37	19.34	
5	256QAM	1	24	19.45	19.45	19.49	
5	256QAM	12	0	19.61	19.59	19.60	20.7
5	256QAM	12	7	19.56	19.59	19.50	
5	256QAM	12	13	19.58	19.53	19.57	
5	256QAM	25	0	19.60	19.60	19.63	



<LTE Band 14_Ant 1_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		22.37		23.4
10	QPSK	1	25		22.15		
10	QPSK	1	49		22.29		
10	QPSK	25	0		22.42		23.4
10	QPSK	25	12		22.36		
10	QPSK	25	25		22.32		
10	QPSK	50	0		22.41		23.4
10	16QAM	1	0		22.60		
10	16QAM	1	25		22.59		
10	16QAM	1	49		22.59		23.4
10	16QAM	25	0		22.39		
10	16QAM	25	12		22.35		
10	16QAM	25	25		22.33		23.4
10	16QAM	50	0		22.36		
10	64QAM	1	0		22.46		
10	64QAM	1	25		22.56		23.4
10	64QAM	1	49		22.57		
10	64QAM	25	0		21.49		
10	64QAM	25	12		21.44		22.7
10	64QAM	25	25		21.43		
10	64QAM	50	0		21.50		
10	256QAM	1	0		19.64		20.7
10	256QAM	1	25		19.33		
10	256QAM	1	49		19.48		
10	256QAM	25	0		19.61		20.7
10	256QAM	25	12		19.52		
10	256QAM	25	25		19.56		
10	256QAM	50	0		19.62		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	22.30	22.31	22.32	23.4
5	QPSK	1	12	22.24	22.23	22.24	
5	QPSK	1	24	22.34	22.32	22.31	
5	QPSK	12	0	22.36	22.38	22.37	23.4
5	QPSK	12	7	22.35	22.37	22.37	
5	QPSK	12	13	22.35	22.36	22.35	
5	QPSK	25	0	22.39	22.35	22.34	23.4
5	16QAM	1	0	22.55	22.57	22.58	
5	16QAM	1	12	22.56	22.55	22.58	
5	16QAM	1	24	22.53	22.54	22.58	23.4
5	16QAM	12	0	22.35	22.37	22.40	
5	16QAM	12	7	22.38	22.39	22.40	
5	16QAM	12	13	22.38	22.38	22.37	23.4
5	16QAM	25	0	22.38	22.38	22.37	
5	64QAM	1	0	22.49	22.50	22.54	
5	64QAM	1	12	22.58	22.53	22.58	23.4
5	64QAM	1	24	22.55	22.53	22.53	
5	64QAM	12	0	21.47	21.51	21.53	
5	64QAM	12	7	21.49	21.54	21.54	22.7
5	64QAM	12	13	21.49	21.52	21.53	
5	64QAM	25	0	21.49	21.45	21.45	
5	256QAM	1	0	19.67	19.66	19.63	20.7
5	256QAM	1	12	19.24	19.31	19.31	
5	256QAM	1	24	19.38	19.41	19.46	
5	256QAM	12	0	19.53	19.54	19.56	20.7
5	256QAM	12	7	19.52	19.51	19.47	
5	256QAM	12	13	19.54	19.50	19.51	
5	256QAM	25	0	19.53	19.56	19.61	



<LTE Band 17_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	20.73	20.74	20.77	22.4
10	QPSK	1	25	20.64	20.66	20.65	
10	QPSK	1	49	20.72	20.74	20.74	
10	QPSK	25	0	20.78	20.80	20.82	22.4
10	QPSK	25	12	20.79	20.80	20.82	
10	QPSK	25	25	20.81	20.82	20.84	
10	QPSK	50	0	20.83	20.85	20.85	22.4
10	16QAM	1	0	20.93	20.96	20.91	
10	16QAM	1	25	20.86	20.89	20.92	
10	16QAM	1	49	20.89	20.99	20.94	22.4
10	16QAM	25	0	20.79	20.80	20.84	
10	16QAM	25	12	20.79	20.81	20.83	
10	16QAM	25	25	20.82	20.81	20.85	22.4
10	16QAM	50	0	20.79	20.80	20.82	
10	64QAM	1	0	20.86	20.89	20.95	
10	64QAM	1	25	20.82	20.76	20.84	22.4
10	64QAM	1	49	20.88	20.89	21.00	
10	64QAM	25	0	20.77	20.76	20.78	
10	64QAM	25	12	20.76	20.77	20.78	22.2
10	64QAM	25	25	20.77	20.79	20.79	
10	64QAM	50	0	20.80	20.81	20.83	
10	256QAM	1	0	19.22	19.28	19.19	20.2
10	256QAM	1	25	19.10	19.21	19.13	
10	256QAM	1	49	19.03	19.17	19.14	
10	256QAM	25	0	19.18	19.25	19.17	20.2
10	256QAM	25	12	19.16	19.23	19.16	
10	256QAM	25	25	19.12	19.05	19.07	
10	256QAM	50	0	19.19	19.23	19.16	Tune-up limit (dBm)
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	20.57	20.65	20.61	22.4
5	QPSK	1	12	20.64	20.69	20.72	
5	QPSK	1	24	20.71	20.77	20.77	
5	QPSK	12	0	20.76	20.71	20.78	22.4
5	QPSK	12	7	20.74	20.75	20.80	
5	QPSK	12	13	20.75	20.83	20.82	
5	QPSK	25	0	20.92	20.95	21.00	22.4
5	16QAM	1	0	20.95	20.95	20.96	
5	16QAM	1	12	20.88	20.93	20.91	
5	16QAM	1	24	20.73	20.73	20.77	22.4
5	16QAM	12	0	20.71	20.71	20.74	
5	16QAM	12	7	20.80	20.71	20.76	
5	16QAM	12	13	20.76	20.77	20.75	22.4
5	16QAM	25	0	20.83	20.80	20.84	
5	64QAM	1	0	20.80	20.70	20.79	
5	64QAM	1	12	20.77	20.78	20.91	22.4
5	64QAM	1	24	20.66	20.70	20.73	
5	64QAM	12	0	20.68	20.71	20.71	22.2
5	64QAM	12	7	20.67	20.72	20.72	
5	64QAM	12	13	20.76	20.77	20.78	
5	64QAM	25	0	20.76	20.71	20.78	20.2
5	256QAM	1	0	19.09	19.18	19.12	
5	256QAM	1	12	18.95	19.13	19.04	
5	256QAM	1	24	19.10	19.20	19.11	20.2
5	256QAM	12	0	19.13	19.20	19.05	
5	256QAM	12	7	19.06	19.02	19.00	
5	256QAM	12	13	19.14	19.12	19.05	20.2
5	256QAM	25	0	19.22	19.18	19.17	



<LTE Band 17_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	20.73	20.74	20.77	21
10	QPSK	1	25	20.64	20.66	20.65	
10	QPSK	1	49	20.72	20.74	20.74	
10	QPSK	25	0	20.78	20.80	20.82	21
10	QPSK	25	12	20.79	20.80	20.82	
10	QPSK	25	25	20.81	20.82	20.84	
10	QPSK	50	0	20.83	20.85	20.85	21
10	16QAM	1	0	20.93	20.96	20.91	
10	16QAM	1	25	20.86	20.89	20.92	
10	16QAM	1	49	20.89	20.99	20.94	21
10	16QAM	25	0	20.79	20.80	20.84	
10	16QAM	25	12	20.79	20.81	20.83	
10	16QAM	25	25	20.82	20.81	20.85	21
10	16QAM	50	0	20.79	20.80	20.82	
10	64QAM	1	0	20.86	20.89	20.95	
10	64QAM	1	25	20.82	20.76	20.84	21
10	64QAM	1	49	20.88	20.89	21.00	
10	64QAM	25	0	20.77	20.76	20.78	
10	64QAM	25	12	20.76	20.77	20.78	21
10	64QAM	25	25	20.77	20.79	20.79	
10	64QAM	50	0	20.80	20.81	20.83	
10	256QAM	1	0	19.22	19.28	19.19	20.2
10	256QAM	1	25	19.10	19.21	19.13	
10	256QAM	1	49	19.03	19.17	19.14	
10	256QAM	25	0	19.18	19.25	19.17	20.2
10	256QAM	25	12	19.16	19.23	19.16	
10	256QAM	25	25	19.12	19.05	19.07	
10	256QAM	50	0	19.19	19.23	19.16	Tune-up limit (dBm)
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	20.57	20.65	20.61	21
5	QPSK	1	12	20.64	20.69	20.72	
5	QPSK	1	24	20.71	20.77	20.77	
5	QPSK	12	0	20.76	20.71	20.78	21
5	QPSK	12	7	20.74	20.75	20.80	
5	QPSK	12	13	20.75	20.83	20.82	
5	QPSK	25	0	20.92	20.95	21.00	21
5	16QAM	1	0	20.95	20.95	20.96	
5	16QAM	1	12	20.88	20.93	20.91	
5	16QAM	1	24	20.73	20.73	20.77	21
5	16QAM	12	0	20.71	20.71	20.74	
5	16QAM	12	7	20.80	20.71	20.76	
5	16QAM	12	13	20.76	20.77	20.75	21
5	16QAM	25	0	20.83	20.80	20.84	
5	64QAM	1	0	20.80	20.70	20.79	
5	64QAM	1	12	20.77	20.78	20.91	21
5	64QAM	1	24	20.66	20.70	20.73	
5	64QAM	12	0	20.68	20.71	20.71	
5	64QAM	12	7	20.67	20.72	20.72	21
5	64QAM	12	13	20.76	20.77	20.78	
5	64QAM	25	0	20.76	20.71	20.78	
5	256QAM	1	0	19.09	19.18	19.12	20.2
5	256QAM	1	12	18.95	19.13	19.04	
5	256QAM	1	24	19.10	19.20	19.11	
5	256QAM	12	0	19.13	19.20	19.05	20.2
5	256QAM	12	7	19.06	19.02	19.00	
5	256QAM	12	13	19.14	19.12	19.05	
5	256QAM	25	0	19.22	19.18	19.17	

**<LTE Band 17_Ant 1_Index 4>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.73	23.75	23.74	25.1
10	QPSK	1	25	23.67	23.69	23.70	
10	QPSK	1	49	23.68	23.68	23.60	
10	QPSK	25	0	22.91	22.93	22.92	24.2
10	QPSK	25	12	22.82	22.84	22.84	
10	QPSK	25	25	22.85	22.89	22.86	
10	QPSK	50	0	22.95	22.97	22.95	24.2
10	16QAM	1	0	23.08	23.14	23.07	
10	16QAM	1	25	23.07	23.01	23.04	
10	16QAM	1	49	23.07	23.04	22.94	23.2
10	16QAM	25	0	21.93	21.96	21.96	
10	16QAM	25	12	21.95	21.81	21.97	
10	16QAM	25	25	21.96	21.97	21.98	23.2
10	16QAM	50	0	21.93	21.95	21.95	
10	64QAM	1	0	22.01	22.07	22.08	
10	64QAM	1	25	21.92	22.00	21.98	22.2
10	64QAM	1	49	21.99	22.06	22.00	
10	64QAM	25	0	20.86	20.92	20.92	
10	64QAM	25	12	20.88	20.91	20.93	20.2
10	64QAM	25	25	20.90	20.91	20.95	
10	64QAM	50	0	20.95	20.96	20.94	
10	256QAM	1	0	19.31	19.38	19.29	20.2
10	256QAM	1	25	19.15	19.21	19.19	
10	256QAM	1	49	19.07	19.17	19.16	
10	256QAM	25	0	19.20	19.25	19.21	20.2
10	256QAM	25	12	19.18	19.25	19.17	
10	256QAM	25	25	19.13	19.14	19.12	
10	256QAM	50	0	19.26	19.26	19.20	Tune-up limit (dBm)
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.67	23.71	23.65	25.1
5	QPSK	1	12	23.62	23.65	23.61	
5	QPSK	1	24	23.64	23.63	23.54	
5	QPSK	12	0	22.86	22.89	22.91	24.2
5	QPSK	12	7	22.71	22.89	22.90	
5	QPSK	12	13	22.86	22.86	22.88	
5	QPSK	25	0	22.90	22.94	22.96	24.2
5	16QAM	1	0	23.16	23.19	23.17	
5	16QAM	1	12	23.09	23.17	23.19	
5	16QAM	1	24	23.11	23.08	23.18	23.2
5	16QAM	12	0	21.88	21.89	21.91	
5	16QAM	12	7	21.90	21.90	21.92	
5	16QAM	12	13	21.89	21.89	21.93	23.2
5	16QAM	25	0	21.93	21.94	21.96	
5	64QAM	1	0	21.92	22.04	22.07	
5	64QAM	1	12	21.96	21.99	21.99	22.2
5	64QAM	1	24	21.99	22.01	22.02	
5	64QAM	12	0	20.84	20.87	20.87	
5	64QAM	12	7	20.87	20.86	20.90	20.2
5	64QAM	12	13	20.87	20.86	20.88	
5	64QAM	25	0	20.89	20.90	20.92	
5	256QAM	1	0	19.29	19.33	19.28	20.2
5	256QAM	1	12	19.12	19.19	19.13	
5	256QAM	1	24	18.97	19.09	19.13	
5	256QAM	12	0	19.14	19.20	19.16	20.2
5	256QAM	12	7	19.08	19.19	19.09	
5	256QAM	12	13	19.10	19.10	19.02	
5	256QAM	25	0	19.18	19.19	19.15	

**<LTE Band 17_Ant 1_Index 5>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.73	23.75	23.74	25.2
10	QPSK	1	25	23.67	23.69	23.70	
10	QPSK	1	49	23.68	23.68	23.60	
10	QPSK	25	0	22.91	22.93	22.92	24.2
10	QPSK	25	12	22.82	22.84	22.84	
10	QPSK	25	25	22.85	22.89	22.86	
10	QPSK	50	0	22.95	22.97	22.95	24.2
10	16QAM	1	0	23.08	23.14	23.07	
10	16QAM	1	25	23.07	23.01	23.04	
10	16QAM	1	49	23.07	23.04	22.94	23.2
10	16QAM	25	0	21.93	21.96	21.96	
10	16QAM	25	12	21.95	21.81	21.97	
10	16QAM	25	25	21.96	21.97	21.98	23.2
10	16QAM	50	0	21.93	21.95	21.95	
10	64QAM	1	0	22.01	22.07	22.08	
10	64QAM	1	25	21.92	22.00	21.98	22.2
10	64QAM	1	49	21.99	22.06	22.00	
10	64QAM	25	0	20.86	20.92	20.92	
10	64QAM	25	12	20.88	20.91	20.93	20.2
10	64QAM	25	25	20.90	20.91	20.95	
10	64QAM	50	0	20.95	20.96	20.94	
10	256QAM	1	0	19.31	19.38	19.29	20.2
10	256QAM	1	25	19.15	19.21	19.19	
10	256QAM	1	49	19.07	19.17	19.16	
10	256QAM	25	0	19.20	19.25	19.21	20.2
10	256QAM	25	12	19.18	19.25	19.17	
10	256QAM	25	25	19.13	19.14	19.12	
10	256QAM	50	0	19.26	19.26	19.20	Tune-up limit (dBm)
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.67	23.71	23.65	25.2
5	QPSK	1	12	23.62	23.65	23.61	
5	QPSK	1	24	23.64	23.63	23.54	
5	QPSK	12	0	22.86	22.89	22.91	24.2
5	QPSK	12	7	22.71	22.89	22.90	
5	QPSK	12	13	22.86	22.86	22.88	
5	QPSK	25	0	22.90	22.94	22.96	24.2
5	16QAM	1	0	23.16	23.19	23.17	
5	16QAM	1	12	23.09	23.17	23.19	
5	16QAM	1	24	23.11	23.08	23.18	23.2
5	16QAM	12	0	21.88	21.89	21.91	
5	16QAM	12	7	21.90	21.90	21.92	
5	16QAM	12	13	21.89	21.89	21.93	23.2
5	16QAM	25	0	21.93	21.94	21.96	
5	64QAM	1	0	21.92	22.04	22.07	
5	64QAM	1	12	21.96	21.99	21.99	22.2
5	64QAM	1	24	21.99	22.01	22.02	
5	64QAM	12	0	20.84	20.87	20.87	
5	64QAM	12	7	20.87	20.86	20.90	20.2
5	64QAM	12	13	20.87	20.86	20.88	
5	64QAM	25	0	20.89	20.90	20.92	
5	256QAM	1	0	19.29	19.33	19.28	20.2
5	256QAM	1	12	19.12	19.19	19.13	
5	256QAM	1	24	18.97	19.09	19.13	
5	256QAM	12	0	19.14	19.20	19.16	20.2
5	256QAM	12	7	19.08	19.19	19.09	
5	256QAM	12	13	19.10	19.10	19.02	
5	256QAM	25	0	19.18	19.19	19.15	



<LTE Band 17_Ant 1_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.73	23.75	23.74	25.1
10	QPSK	1	25	23.67	23.69	23.70	
10	QPSK	1	49	23.68	23.68	23.60	
10	QPSK	25	0	22.91	22.93	22.92	24.2
10	QPSK	25	12	22.82	22.84	22.84	
10	QPSK	25	25	22.85	22.89	22.86	
10	QPSK	50	0	22.95	22.97	22.95	24.2
10	16QAM	1	0	23.08	23.14	23.07	
10	16QAM	1	25	23.07	23.01	23.04	
10	16QAM	1	49	23.07	23.04	22.94	23.2
10	16QAM	25	0	21.93	21.96	21.96	
10	16QAM	25	12	21.95	21.81	21.97	
10	16QAM	25	25	21.96	21.97	21.98	23.2
10	16QAM	50	0	21.93	21.95	21.95	
10	64QAM	1	0	22.01	22.07	22.08	
10	64QAM	1	25	21.92	22.00	21.98	22.2
10	64QAM	1	49	21.99	22.06	22.00	
10	64QAM	25	0	20.86	20.92	20.92	
10	64QAM	25	12	20.88	20.91	20.93	20.2
10	64QAM	25	25	20.90	20.91	20.95	
10	64QAM	50	0	20.95	20.96	20.94	
10	256QAM	1	0	19.31	19.38	19.29	20.2
10	256QAM	1	25	19.15	19.21	19.19	
10	256QAM	1	49	19.07	19.17	19.16	
10	256QAM	25	0	19.20	19.25	19.21	20.2
10	256QAM	25	12	19.18	19.25	19.17	
10	256QAM	25	25	19.13	19.14	19.12	
10	256QAM	50	0	19.26	19.26	19.20	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.67	23.71	23.65	25.1
5	QPSK	1	12	23.62	23.65	23.61	
5	QPSK	1	24	23.64	23.63	23.54	
5	QPSK	12	0	22.86	22.89	22.91	24.2
5	QPSK	12	7	22.71	22.89	22.90	
5	QPSK	12	13	22.86	22.86	22.88	
5	QPSK	25	0	22.90	22.94	22.96	24.2
5	16QAM	1	0	23.16	23.19	23.17	
5	16QAM	1	12	23.09	23.17	23.19	
5	16QAM	1	24	23.11	23.08	23.18	23.2
5	16QAM	12	0	21.88	21.89	21.91	
5	16QAM	12	7	21.90	21.90	21.92	
5	16QAM	12	13	21.89	21.89	21.93	23.2
5	16QAM	25	0	21.93	21.94	21.96	
5	64QAM	1	0	21.92	22.04	22.07	
5	64QAM	1	12	21.96	21.99	21.99	22.2
5	64QAM	1	24	21.99	22.01	22.02	
5	64QAM	12	0	20.84	20.87	20.87	
5	64QAM	12	7	20.87	20.86	20.90	20.2
5	64QAM	12	13	20.87	20.86	20.88	
5	64QAM	25	0	20.89	20.90	20.92	
5	256QAM	1	0	19.29	19.33	19.28	20.2
5	256QAM	1	12	19.12	19.19	19.13	
5	256QAM	1	24	18.97	19.09	19.13	
5	256QAM	12	0	19.14	19.20	19.16	20.2
5	256QAM	12	7	19.08	19.19	19.09	
5	256QAM	12	13	19.10	19.10	19.02	
5	256QAM	25	0	19.18	19.19	19.15	



<LTE Band 25_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	24.39	24.71	24.55	25.2
20	QPSK	1	49	24.37	24.28	24.37	
20	QPSK	1	99	24.38	23.68	24.52	
20	QPSK	50	0	23.08	23.33	23.04	24.2
20	QPSK	50	24	23.33	23.60	23.59	
20	QPSK	50	50	23.26	23.44	23.58	
20	QPSK	100	0	23.21	23.32	23.30	24.2
20	16QAM	1	0	23.23	23.79	23.28	
20	16QAM	1	49	23.51	23.43	23.50	
20	16QAM	1	99	23.51	22.92	23.98	23.2
20	16QAM	50	0	22.08	22.32	22.03	
20	16QAM	50	24	22.20	22.16	22.27	
20	16QAM	50	50	22.27	21.92	22.64	23.2
20	16QAM	100	0	22.18	22.14	22.28	
20	64QAM	1	0	22.18	22.82	22.26	
20	64QAM	1	49	22.38	22.41	22.46	22.2
20	64QAM	1	99	22.43	21.95	22.89	
20	64QAM	50	0	21.08	21.36	21.09	
20	64QAM	50	24	21.21	21.19	21.30	20.2
20	64QAM	50	50	21.28	20.95	21.63	
20	64QAM	100	0	21.19	21.16	21.26	
20	256QAM	1	0	19.45	19.49	19.41	20.2
20	256QAM	1	49	19.16	19.22	19.21	
20	256QAM	1	99	18.75	18.77	18.70	
20	256QAM	50	0	19.13	19.19	19.17	20.2
20	256QAM	50	24	18.89	18.99	18.97	
20	256QAM	50	50	18.75	18.81	18.78	
20	256QAM	100	0	19.02	19.05	18.96	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	23.93	24.35	23.79	25.2
15	QPSK	1	37	24.26	24.21	24.23	
15	QPSK	1	74	24.34	23.76	24.46	
15	QPSK	36	0	23.14	23.33	23.03	24.2
15	QPSK	36	20	23.26	23.16	23.29	
15	QPSK	36	39	23.34	22.99	23.54	
15	QPSK	75	0	23.27	23.17	23.26	24.2
15	16QAM	1	0	23.25	23.74	23.15	
15	16QAM	1	37	23.44	23.43	23.61	
15	16QAM	1	74	23.59	23.12	23.86	23.2
15	16QAM	36	0	22.13	22.34	22.01	
15	16QAM	36	20	22.26	22.18	22.31	
15	16QAM	36	39	22.34	22.01	22.54	23.2
15	16QAM	75	0	22.24	22.18	22.25	
15	64QAM	1	0	22.19	22.56	22.11	
15	64QAM	1	37	22.50	22.28	22.46	22.2
15	64QAM	1	74	22.60	21.91	22.76	
15	64QAM	36	0	21.13	21.34	21.06	
15	64QAM	36	20	21.25	21.17	21.31	20.2
15	64QAM	36	39	21.34	21.04	21.58	
15	64QAM	75	0	21.21	21.15	21.21	
15	256QAM	1	0	19.40	19.39	19.39	20.2
15	256QAM	1	37	19.06	19.12	19.21	
15	256QAM	1	74	18.67	18.71	18.68	
15	256QAM	36	0	19.06	19.09	19.11	20.2
15	256QAM	36	20	18.85	18.92	18.89	
15	256QAM	36	39	18.73	18.73	18.77	



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15	256QAM	75	0	18.92	18.95	18.88	Tune-up limit (dBm)
Channel				26090	26340	26640	
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	24.13	24.34	23.87	25.2
10	QPSK	1	25	24.20	24.01	24.08	
10	QPSK	1	49	24.41	23.86	24.27	
10	QPSK	25	0	23.21	23.29	23.07	24.2
10	QPSK	25	12	23.28	23.19	23.27	
10	QPSK	25	25	23.35	23.09	23.39	
10	QPSK	50	0	23.22	23.15	23.23	24.2
10	16QAM	1	0	23.31	23.63	23.16	
10	16QAM	1	25	23.47	23.35	23.50	
10	16QAM	1	49	23.67	23.15	23.62	23.2
10	16QAM	25	0	22.19	22.31	22.09	
10	16QAM	25	12	22.27	22.23	22.29	
10	16QAM	25	25	22.36	22.10	22.42	23.2
10	16QAM	50	0	22.22	22.13	22.22	
10	64QAM	1	0	22.42	22.54	22.05	
10	64QAM	1	25	22.39	22.26	22.42	23.2
10	64QAM	1	49	22.65	22.10	22.63	
10	64QAM	25	0	21.14	21.26	21.03	
10	64QAM	25	12	21.20	21.18	21.20	22.2
10	64QAM	25	25	21.30	21.05	21.37	
10	64QAM	50	0	21.20	21.18	21.22	
10	256QAM	1	0	19.39	19.48	19.37	20.2
10	256QAM	1	25	19.09	19.19	19.11	
10	256QAM	1	49	18.74	18.68	18.70	
10	256QAM	25	0	19.10	19.12	19.17	20.2
10	256QAM	25	12	18.79	18.98	18.89	
10	256QAM	25	25	18.74	18.71	18.72	
10	256QAM	50	0	18.94	19.04	18.93	Tune-up limit (dBm)
Channel				26065	26340	26665	
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	24.23	24.31	24.11	25.2
5	QPSK	1	12	24.37	24.29	24.31	
5	QPSK	1	24	24.45	24.15	24.20	
5	QPSK	12	0	23.33	23.27	23.24	24.2
5	QPSK	12	7	23.35	23.22	23.29	
5	QPSK	12	13	23.40	23.18	23.28	
5	QPSK	25	0	23.30	23.22	23.25	24.2
5	16QAM	1	0	23.53	23.60	23.48	
5	16QAM	1	12	23.56	23.41	23.44	
5	16QAM	1	24	23.69	23.43	23.46	23.2
5	16QAM	12	0	22.31	22.35	22.30	
5	16QAM	12	7	22.43	22.28	22.38	
5	16QAM	12	13	22.44	22.22	22.37	23.2
5	16QAM	25	0	22.31	22.21	22.25	
5	64QAM	1	0	22.41	22.47	22.35	
5	64QAM	1	12	22.56	22.41	22.40	22.2
5	64QAM	1	24	22.61	22.24	22.39	
5	64QAM	12	0	21.30	21.24	21.26	
5	64QAM	12	7	21.35	21.17	21.30	20.2
5	64QAM	12	13	21.40	21.13	21.31	
5	64QAM	25	0	21.28	21.19	21.23	
5	256QAM	1	0	19.41	19.45	19.34	20.2
5	256QAM	1	12	19.11	19.17	19.20	
5	256QAM	1	24	18.68	18.75	18.62	
5	256QAM	12	0	19.10	19.18	19.08	20.2
5	256QAM	12	7	18.87	18.97	18.87	
5	256QAM	12	13	18.68	18.72	18.74	
5	256QAM	25	0	19.01	18.99	18.93	Tune-up limit (dBm)
Channel				26055	26340	26675	
Frequency (MHz)				1851.5	1880	1913.5	



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3	QPSK	1	0	24.29	24.32	24.28	25.2
3	QPSK	1	8	24.24	24.11	24.16	
3	QPSK	1	14	24.36	24.12	24.11	
3	QPSK	8	0	23.29	23.20	23.27	24.2
3	QPSK	8	4	23.36	23.16	23.28	
3	QPSK	8	7	23.35	23.17	23.26	
3	QPSK	15	0	23.34	23.18	23.28	24.2
3	16QAM	1	0	23.68	23.59	23.62	
3	16QAM	1	8	23.55	23.39	23.47	
3	16QAM	1	14	23.72	23.42	23.43	23.2
3	16QAM	8	0	22.36	22.29	22.38	
3	16QAM	8	4	22.37	22.26	22.37	
3	16QAM	8	7	22.37	22.23	22.33	23.2
3	16QAM	15	0	22.37	22.22	22.31	
3	64QAM	1	0	22.46	22.47	22.47	
3	64QAM	1	8	22.44	22.35	22.40	22.2
3	64QAM	1	14	22.55	22.33	22.38	
3	64QAM	8	0	21.33	21.22	21.29	
3	64QAM	8	4	21.36	21.22	21.39	20.2
3	64QAM	8	7	21.39	21.17	21.33	
3	64QAM	15	0	21.34	21.18	21.31	
3	256QAM	1	0	19.42	19.41	19.39	20.2
3	256QAM	1	8	19.15	19.15	19.11	
3	256QAM	1	14	18.71	18.67	18.66	
3	256QAM	8	0	19.12	19.12	19.16	20.2
3	256QAM	8	4	18.85	18.96	18.96	
3	256QAM	8	7	18.72	18.81	18.71	
3	256QAM	15	0	18.98	19.02	18.86	Tune-up limit (dBm)
Channel				26047	26340	26683	
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	24.27	24.22	24.18	25.2
1.4	QPSK	1	3	24.18	24.06	24.02	
1.4	QPSK	1	5	24.29	24.14	24.10	
1.4	QPSK	3	0	24.19	24.10	24.12	
1.4	QPSK	3	1	24.30	24.14	24.16	
1.4	QPSK	3	3	24.24	24.11	24.10	24.2
1.4	QPSK	6	0	23.23	23.11	23.16	
1.4	16QAM	1	0	23.58	23.44	23.60	
1.4	16QAM	1	3	23.45	23.32	23.35	24.2
1.4	16QAM	1	5	23.57	23.42	23.44	
1.4	16QAM	3	0	23.38	23.21	23.28	
1.4	16QAM	3	1	23.36	23.21	23.24	
1.4	16QAM	3	3	23.34	23.18	23.19	
1.4	16QAM	6	0	22.29	22.18	22.22	23.2
1.4	64QAM	1	0	22.40	22.38	22.40	23.2
1.4	64QAM	1	3	22.37	22.20	22.34	
1.4	64QAM	1	5	22.48	22.29	22.39	
1.4	64QAM	3	0	22.35	22.28	22.31	
1.4	64QAM	3	1	22.33	22.26	22.37	
1.4	64QAM	3	3	22.34	22.18	22.23	22.2
1.4	64QAM	6	0	21.17	21.06	21.15	
1.4	256QAM	1	0	19.44	19.47	19.35	
1.4	256QAM	1	3	19.15	19.22	19.19	20.2
1.4	256QAM	1	5	18.69	18.74	18.67	
1.4	256QAM	3	0	19.03	19.15	19.11	
1.4	256QAM	3	1	18.86	18.94	18.89	
1.4	256QAM	3	3	18.65	18.73	18.69	
1.4	256QAM	6	0	18.95	18.99	18.91	20.2



<LTE Band 25_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	24.39	24.71	24.55	25.1
20	QPSK	1	49	24.37	24.28	24.37	
20	QPSK	1	99	24.38	23.68	24.52	
20	QPSK	50	0	23.08	23.33	23.04	24.2
20	QPSK	50	24	23.33	23.60	23.59	
20	QPSK	50	50	23.26	23.44	23.58	
20	QPSK	100	0	23.21	23.32	23.30	24.2
20	16QAM	1	0	23.23	23.79	23.28	
20	16QAM	1	49	23.51	23.43	23.50	
20	16QAM	1	99	23.51	22.92	23.98	23.2
20	16QAM	50	0	22.08	22.32	22.03	
20	16QAM	50	24	22.20	22.16	22.27	
20	16QAM	50	50	22.27	21.92	22.64	23.2
20	16QAM	100	0	22.18	22.14	22.28	
20	64QAM	1	0	22.18	22.82	22.26	
20	64QAM	1	49	22.38	22.41	22.46	22.2
20	64QAM	1	99	22.43	21.95	22.89	
20	64QAM	50	0	21.08	21.36	21.09	
20	64QAM	50	24	21.21	21.19	21.30	20.2
20	64QAM	50	50	21.28	20.95	21.63	
20	64QAM	100	0	21.19	21.16	21.26	
20	256QAM	1	0	19.45	19.49	19.41	20.2
20	256QAM	1	49	19.16	19.22	19.21	
20	256QAM	1	99	18.75	18.77	18.70	
20	256QAM	50	0	19.13	19.19	19.17	20.2
20	256QAM	50	24	18.89	18.99	18.97	
20	256QAM	50	50	18.75	18.81	18.78	
20	256QAM	100	0	19.02	19.05	18.96	
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	23.93	24.35	23.79	25.1
15	QPSK	1	37	24.26	24.21	24.23	
15	QPSK	1	74	24.34	23.76	24.46	
15	QPSK	36	0	23.14	23.33	23.03	24.2
15	QPSK	36	20	23.26	23.16	23.29	
15	QPSK	36	39	23.34	22.99	23.54	
15	QPSK	75	0	23.27	23.17	23.26	24.2
15	16QAM	1	0	23.25	23.74	23.15	
15	16QAM	1	37	23.44	23.43	23.61	
15	16QAM	1	74	23.59	23.12	23.86	23.2
15	16QAM	36	0	22.13	22.34	22.01	
15	16QAM	36	20	22.26	22.18	22.31	
15	16QAM	36	39	22.34	22.01	22.54	23.2
15	16QAM	75	0	22.24	22.18	22.25	
15	64QAM	1	0	22.19	22.56	22.11	
15	64QAM	1	37	22.50	22.28	22.46	22.2
15	64QAM	1	74	22.60	21.91	22.76	
15	64QAM	36	0	21.13	21.34	21.06	
15	64QAM	36	20	21.25	21.17	21.31	20.2
15	64QAM	36	39	21.34	21.04	21.58	
15	64QAM	75	0	21.21	21.15	21.21	
15	256QAM	1	0	19.40	19.39	19.39	20.2
15	256QAM	1	37	19.06	19.12	19.21	
15	256QAM	1	74	18.67	18.71	18.68	
15	256QAM	36	0	19.06	19.09	19.11	20.2
15	256QAM	36	20	18.85	18.92	18.89	
15	256QAM	36	39	18.73	18.73	18.77	



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15	256QAM	75	0	18.92	18.95	18.88	Tune-up limit (dBm)
Channel				26090	26340	26640	
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	24.13	24.34	23.87	25.1
10	QPSK	1	25	24.20	24.01	24.08	
10	QPSK	1	49	24.41	23.86	24.27	
10	QPSK	25	0	23.21	23.29	23.07	24.2
10	QPSK	25	12	23.28	23.19	23.27	
10	QPSK	25	25	23.35	23.09	23.39	
10	QPSK	50	0	23.22	23.15	23.23	24.2
10	16QAM	1	0	23.31	23.63	23.16	
10	16QAM	1	25	23.47	23.35	23.50	
10	16QAM	1	49	23.67	23.15	23.62	23.2
10	16QAM	25	0	22.19	22.31	22.09	
10	16QAM	25	12	22.27	22.23	22.29	
10	16QAM	25	25	22.36	22.10	22.42	23.2
10	16QAM	50	0	22.22	22.13	22.22	
10	64QAM	1	0	22.42	22.54	22.05	
10	64QAM	1	25	22.39	22.26	22.42	23.2
10	64QAM	1	49	22.65	22.10	22.63	
10	64QAM	25	0	21.14	21.26	21.03	
10	64QAM	25	12	21.20	21.18	21.20	22.2
10	64QAM	25	25	21.30	21.05	21.37	
10	64QAM	50	0	21.20	21.18	21.22	
10	256QAM	1	0	19.39	19.48	19.37	20.2
10	256QAM	1	25	19.09	19.19	19.11	
10	256QAM	1	49	18.74	18.68	18.70	
10	256QAM	25	0	19.10	19.12	19.17	20.2
10	256QAM	25	12	18.79	18.98	18.89	
10	256QAM	25	25	18.74	18.71	18.72	
10	256QAM	50	0	18.94	19.04	18.93	Tune-up limit (dBm)
Channel				26065	26340	26665	
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	24.23	24.31	24.11	25.1
5	QPSK	1	12	24.37	24.29	24.31	
5	QPSK	1	24	24.45	24.15	24.20	
5	QPSK	12	0	23.33	23.27	23.24	24.2
5	QPSK	12	7	23.35	23.22	23.29	
5	QPSK	12	13	23.40	23.18	23.28	
5	QPSK	25	0	23.30	23.22	23.25	24.2
5	16QAM	1	0	23.53	23.60	23.48	
5	16QAM	1	12	23.56	23.41	23.44	
5	16QAM	1	24	23.69	23.43	23.46	23.2
5	16QAM	12	0	22.31	22.35	22.30	
5	16QAM	12	7	22.43	22.28	22.38	
5	16QAM	12	13	22.44	22.22	22.37	23.2
5	16QAM	25	0	22.31	22.21	22.25	
5	64QAM	1	0	22.41	22.47	22.35	
5	64QAM	1	12	22.56	22.41	22.40	23.2
5	64QAM	1	24	22.61	22.24	22.39	
5	64QAM	12	0	21.30	21.24	21.26	
5	64QAM	12	7	21.35	21.17	21.30	22.2
5	64QAM	12	13	21.40	21.13	21.31	
5	64QAM	25	0	21.28	21.19	21.23	
5	256QAM	1	0	19.41	19.45	19.34	20.2
5	256QAM	1	12	19.11	19.17	19.20	
5	256QAM	1	24	18.68	18.75	18.62	
5	256QAM	12	0	19.10	19.18	19.08	20.2
5	256QAM	12	7	18.87	18.97	18.87	
5	256QAM	12	13	18.68	18.72	18.74	
5	256QAM	25	0	19.01	18.99	18.93	Tune-up limit (dBm)
Channel				26055	26340	26675	
Frequency (MHz)				1851.5	1880	1913.5	



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3	QPSK	1	0	24.29	24.32	24.28	25.1
3	QPSK	1	8	24.24	24.11	24.16	
3	QPSK	1	14	24.36	24.12	24.11	
3	QPSK	8	0	23.29	23.20	23.27	24.2
3	QPSK	8	4	23.36	23.16	23.28	
3	QPSK	8	7	23.35	23.17	23.26	
3	QPSK	15	0	23.34	23.18	23.28	24.2
3	16QAM	1	0	23.68	23.59	23.62	
3	16QAM	1	8	23.55	23.39	23.47	
3	16QAM	1	14	23.72	23.42	23.43	23.2
3	16QAM	8	0	22.36	22.29	22.38	
3	16QAM	8	4	22.37	22.26	22.37	
3	16QAM	8	7	22.37	22.23	22.33	23.2
3	16QAM	15	0	22.37	22.22	22.31	
3	64QAM	1	0	22.46	22.47	22.47	
3	64QAM	1	8	22.44	22.35	22.40	22.2
3	64QAM	1	14	22.55	22.33	22.38	
3	64QAM	8	0	21.33	21.22	21.29	
3	64QAM	8	4	21.36	21.22	21.39	20.2
3	64QAM	8	7	21.39	21.17	21.33	
3	64QAM	15	0	21.34	21.18	21.31	
3	256QAM	1	0	19.42	19.41	19.39	20.2
3	256QAM	1	8	19.15	19.15	19.11	
3	256QAM	1	14	18.71	18.67	18.66	
3	256QAM	8	0	19.12	19.12	19.16	20.2
3	256QAM	8	4	18.85	18.96	18.96	
3	256QAM	8	7	18.72	18.81	18.71	
3	256QAM	15	0	18.98	19.02	18.86	Tune-up limit (dBm)
Channel				26047	26340	26683	
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	24.27	24.22	24.18	25.1
1.4	QPSK	1	3	24.18	24.06	24.02	
1.4	QPSK	1	5	24.29	24.14	24.10	
1.4	QPSK	3	0	24.19	24.10	24.12	24.2
1.4	QPSK	3	1	24.30	24.14	24.16	
1.4	QPSK	3	3	24.24	24.11	24.10	
1.4	QPSK	6	0	23.23	23.11	23.16	24.2
1.4	16QAM	1	0	23.58	23.44	23.60	
1.4	16QAM	1	3	23.45	23.32	23.35	
1.4	16QAM	1	5	23.57	23.42	23.44	23.2
1.4	16QAM	3	0	23.38	23.21	23.28	
1.4	16QAM	3	1	23.36	23.21	23.24	
1.4	16QAM	3	3	23.34	23.18	23.19	23.2
1.4	16QAM	6	0	22.29	22.18	22.22	
1.4	64QAM	1	0	22.40	22.38	22.40	
1.4	64QAM	1	3	22.37	22.20	22.34	22.2
1.4	64QAM	1	5	22.48	22.29	22.39	
1.4	64QAM	3	0	22.35	22.28	22.31	
1.4	64QAM	3	1	22.33	22.26	22.37	20.2
1.4	64QAM	3	3	22.34	22.18	22.23	
1.4	64QAM	6	0	21.17	21.06	21.15	
1.4	256QAM	1	0	19.44	19.47	19.35	20.2
1.4	256QAM	1	3	19.15	19.22	19.19	
1.4	256QAM	1	5	18.69	18.74	18.67	
1.4	256QAM	3	0	19.03	19.15	19.11	20.2
1.4	256QAM	3	1	18.86	18.94	18.89	
1.4	256QAM	3	3	18.65	18.73	18.69	
1.4	256QAM	6	0	18.95	18.99	18.91	20.2



<LTE Band 25_Ant 0_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	21.35	21.94	21.55	22.7
20	QPSK	1	49	21.33	21.56	21.54	
20	QPSK	1	99	21.33	21.14	22.29	
20	QPSK	50	0	21.68	21.85	21.75	22.7
20	QPSK	50	24	21.66	21.70	21.75	
20	QPSK	50	50	21.66	21.48	21.74	
20	QPSK	100	0	21.63	21.68	21.81	
20	16QAM	1	0	21.56	22.30	21.89	22.7
20	16QAM	1	49	21.82	21.81	21.91	
20	16QAM	1	99	22.02	21.50	22.16	
20	16QAM	50	0	21.48	21.85	21.55	22.7
20	16QAM	50	24	21.62	21.69	21.76	
20	16QAM	50	50	21.73	21.46	22.13	
20	16QAM	100	0	21.63	21.66	21.78	
20	64QAM	1	0	21.44	22.20	21.80	22.7
20	64QAM	1	49	21.59	21.88	22.01	
20	64QAM	1	99	21.68	21.52	22.10	
20	64QAM	50	0	21.47	21.37	21.09	22.2
20	64QAM	50	24	21.63	21.23	21.29	
20	64QAM	50	50	21.72	21.01	21.67	
20	64QAM	100	0	21.60	21.19	21.28	
20	256QAM	1	0	19.40	19.49	19.37	20.2
20	256QAM	1	49	19.18	19.22	19.18	
20	256QAM	1	99	18.91	19.03	19.03	
20	256QAM	50	0	19.26	19.29	19.20	20.2
20	256QAM	50	24	19.05	19.13	19.06	
20	256QAM	50	50	18.93	19.09	19.05	
20	256QAM	100	0	19.15	19.15	19.08	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	21.24	21.91	21.44	22.7
15	QPSK	1	37	21.31	21.54	21.50	
15	QPSK	1	74	21.22	21.09	22.27	
15	QPSK	36	0	21.59	21.84	21.66	22.7
15	QPSK	36	20	21.65	21.67	21.65	
15	QPSK	36	39	21.62	21.40	21.67	
15	QPSK	75	0	21.61	21.67	21.75	
15	16QAM	1	0	21.52	22.29	21.85	22.7
15	16QAM	1	37	21.76	21.75	21.83	
15	16QAM	1	74	21.97	21.39	22.07	
15	16QAM	36	0	21.46	21.77	21.45	22.7
15	16QAM	36	20	21.57	21.62	21.74	
15	16QAM	36	39	21.66	21.40	22.09	
15	16QAM	75	0	21.62	21.60	21.70	
15	64QAM	1	0	21.37	22.11	21.71	22.7
15	64QAM	1	37	21.50	21.78	21.92	
15	64QAM	1	74	21.62	21.51	22.09	
15	64QAM	36	0	21.43	21.26	21.02	22.2
15	64QAM	36	20	21.53	21.20	21.18	
15	64QAM	36	39	21.68	20.94	21.56	
15	64QAM	75	0	21.50	21.10	21.18	
15	256QAM	1	0	19.35	19.39	19.36	20.2
15	256QAM	1	37	19.07	19.18	19.12	
15	256QAM	1	74	18.90	18.99	19.01	
15	256QAM	36	0	19.17	19.25	19.19	20.2
15	256QAM	36	20	18.99	19.11	18.98	
15	256QAM	36	39	18.88	19.02	18.98	



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15	256QAM	75	0	19.09	19.06	19.02	Tune-up limit (dBm)
Channel				26090	26340	26640	
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	21.29	21.86	21.51	22.7
10	QPSK	1	25	21.28	21.47	21.47	
10	QPSK	1	49	21.24	21.05	22.26	
10	QPSK	25	0	21.66	21.80	21.66	22.7
10	QPSK	25	12	21.58	21.60	21.69	
10	QPSK	25	25	21.56	21.46	21.67	
10	QPSK	50	0	21.59	21.63	21.77	22.7
10	16QAM	1	0	21.46	22.26	21.85	
10	16QAM	1	25	21.74	21.71	21.82	
10	16QAM	1	49	21.94	21.48	22.09	22.7
10	16QAM	25	0	21.38	21.77	21.46	
10	16QAM	25	12	21.54	21.63	21.73	
10	16QAM	25	25	21.65	21.36	22.11	22.7
10	16QAM	50	0	21.55	21.57	21.70	
10	64QAM	1	0	21.41	22.16	21.79	
10	64QAM	1	25	21.54	21.81	21.99	22.7
10	64QAM	1	49	21.66	21.47	22.09	
10	64QAM	25	0	21.38	21.29	21.00	
10	64QAM	25	12	21.57	21.19	21.19	22.2
10	64QAM	25	25	21.67	20.92	21.64	
10	64QAM	50	0	21.59	21.15	21.19	
10	256QAM	1	0	19.36	19.46	19.36	20.2
10	256QAM	1	25	19.11	19.19	19.17	
10	256QAM	1	49	18.82	18.97	19.00	
10	256QAM	25	0	19.18	19.25	19.14	20.2
10	256QAM	25	12	18.97	19.06	18.95	
10	256QAM	25	25	18.89	19.06	18.98	
10	256QAM	50	0	19.05	19.05	18.99	Tune-up limit (dBm)
Channel				26065	26340	26665	
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	21.32	21.83	21.53	22.7
5	QPSK	1	12	21.25	21.47	21.53	
5	QPSK	1	24	21.29	21.06	22.26	
5	QPSK	12	0	21.64	21.79	21.64	22.7
5	QPSK	12	7	21.62	21.63	21.74	
5	QPSK	12	13	21.56	21.47	21.70	
5	QPSK	25	0	21.54	21.57	21.70	22.7
5	16QAM	1	0	21.54	22.25	21.87	
5	16QAM	1	12	21.71	21.80	21.88	
5	16QAM	1	24	21.99	21.41	22.05	22.7
5	16QAM	12	0	21.38	21.82	21.53	
5	16QAM	12	7	21.54	21.62	21.73	
5	16QAM	12	13	21.68	21.38	22.07	22.7
5	16QAM	25	0	21.52	21.55	21.74	
5	64QAM	1	0	21.43	22.19	21.76	
5	64QAM	1	12	21.55	21.83	21.90	22.7
5	64QAM	1	24	21.67	21.41	22.10	
5	64QAM	12	0	21.36	21.34	21.05	
5	64QAM	12	7	21.61	21.13	21.26	22.2
5	64QAM	12	13	21.62	21.00	21.61	
5	64QAM	25	0	21.55	21.08	21.23	
5	256QAM	1	0	19.37	19.39	19.30	20.2
5	256QAM	1	12	19.10	19.17	19.11	
5	256QAM	1	24	18.87	18.95	18.94	
5	256QAM	12	0	19.15	19.28	19.10	20.2
5	256QAM	12	7	18.94	19.02	18.98	
5	256QAM	12	13	18.90	19.00	18.97	
5	256QAM	25	0	19.06	19.05	19.03	Tune-up limit (dBm)
Channel				26055	26340	26675	
Frequency (MHz)				1851.5	1880	1913.5	



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3	QPSK	1	0	21.34	21.90	21.49	22.7
3	QPSK	1	8	21.26	21.51	21.50	
3	QPSK	1	14	21.25	21.08	22.22	
3	QPSK	8	0	21.62	21.79	21.69	22.7
3	QPSK	8	4	21.61	21.66	21.70	
3	QPSK	8	7	21.58	21.38	21.67	
3	QPSK	15	0	21.57	21.57	21.79	
3	16QAM	1	0	21.53	22.26	21.83	22.7
3	16QAM	1	8	21.80	21.74	21.82	
3	16QAM	1	14	21.98	21.39	22.15	
3	16QAM	8	0	21.42	21.84	21.47	22.7
3	16QAM	8	4	21.53	21.59	21.67	
3	16QAM	8	7	21.67	21.38	22.06	
3	16QAM	15	0	21.58	21.65	21.76	
3	64QAM	1	0	21.43	22.11	21.76	22.7
3	64QAM	1	8	21.58	21.82	21.92	
3	64QAM	1	14	21.65	21.44	22.08	
3	64QAM	8	0	21.46	21.26	21.08	22.2
3	64QAM	8	4	21.60	21.17	21.23	
3	64QAM	8	7	21.70	20.98	21.61	
3	64QAM	15	0	21.57	21.09	21.24	
3	256QAM	1	0	19.38	19.38	19.33	20.2
3	256QAM	1	8	19.15	19.20	19.10	
3	256QAM	1	14	18.84	19.00	19.02	
3	256QAM	8	0	19.16	19.25	19.18	20.2
3	256QAM	8	4	18.98	19.06	19.03	
3	256QAM	8	7	18.88	18.99	19.02	
3	256QAM	15	0	19.06	19.13	18.99	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	21.33	21.86	21.52	22.7
1.4	QPSK	1	3	21.27	21.53	21.48	
1.4	QPSK	1	5	21.26	21.07	22.18	
1.4	QPSK	3	0	21.59	21.84	21.71	
1.4	QPSK	3	1	21.59	21.61	21.72	
1.4	QPSK	3	3	21.61	21.46	21.69	
1.4	QPSK	6	0	21.53	21.67	21.72	22.7
1.4	16QAM	1	0	21.51	22.28	21.84	22.7
1.4	16QAM	1	3	21.81	21.76	21.82	
1.4	16QAM	1	5	22.01	21.44	22.13	
1.4	16QAM	3	0	21.37	21.78	21.52	
1.4	16QAM	3	1	21.59	21.67	21.66	
1.4	16QAM	3	3	21.62	21.40	22.04	
1.4	16QAM	6	0	21.60	21.64	21.77	22.7
1.4	64QAM	1	0	21.39	22.19	21.73	22.7
1.4	64QAM	1	3	21.48	21.86	21.98	
1.4	64QAM	1	5	21.62	21.49	22.10	
1.4	64QAM	3	0	21.36	21.26	21.08	
1.4	64QAM	3	1	21.58	21.17	21.27	
1.4	64QAM	3	3	21.63	20.94	21.66	
1.4	64QAM	6	0	21.50	21.14	21.18	22.2
1.4	256QAM	1	0	19.31	19.40	19.33	20.2
1.4	256QAM	1	3	19.09	19.15	19.14	
1.4	256QAM	1	5	18.88	18.98	18.96	
1.4	256QAM	3	0	19.23	19.22	19.13	
1.4	256QAM	3	1	18.97	19.06	19.03	
1.4	256QAM	3	3	18.82	19.01	18.95	
1.4	256QAM	6	0	19.09	19.05	19.05	20.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	21.72	22.32	21.88	
20	QPSK	1	49	21.71	22.16	21.80	23.4
20	QPSK	1	99	21.70	21.70	21.83	
20	QPSK	50	0	21.93	22.30	21.96	
20	QPSK	50	24	21.86	22.01	21.91	23.4
20	QPSK	50	50	21.92	21.80	21.94	
20	QPSK	100	0	22.04	22.09	22.08	
20	16QAM	1	0	21.89	22.52	22.06	23.4
20	16QAM	1	49	22.40	22.36	22.56	
20	16QAM	1	99	22.30	21.71	22.70	
20	16QAM	50	0	21.67	21.99	21.72	23.2
20	16QAM	50	24	21.85	21.80	21.99	
20	16QAM	50	50	21.93	21.60	22.38	
20	16QAM	100	0	21.84	21.81	21.99	23.2
20	64QAM	1	0	21.81	22.39	21.96	
20	64QAM	1	49	22.13	21.98	22.11	
20	64QAM	1	99	22.14	21.49	22.63	22.2
20	64QAM	50	0	21.20	21.52	21.24	
20	64QAM	50	24	21.37	21.37	21.50	
20	64QAM	50	50	21.48	21.13	21.94	20.2
20	64QAM	100	0	21.35	21.34	21.51	
20	256QAM	1	0	19.51	19.51	19.45	
20	256QAM	1	49	19.25	19.26	19.19	20.2
20	256QAM	1	99	19.00	19.07	19.04	
20	256QAM	50	0	19.32	19.39	19.31	
20	256QAM	50	24	19.10	19.16	19.16	20.2
20	256QAM	50	50	19.04	19.13	19.10	
20	256QAM	100	0	19.20	19.25	19.17	
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	21.77	22.17	21.76	
15	QPSK	1	37	22.03	22.05	22.23	23.4
15	QPSK	1	74	22.10	21.75	22.55	
15	QPSK	36	0	21.78	22.15	21.89	
15	QPSK	36	20	21.97	21.90	22.07	23.4
15	QPSK	36	39	22.02	21.70	22.19	
15	QPSK	75	0	21.90	21.96	21.93	
15	16QAM	1	0	21.75	22.44	21.97	23.4
15	16QAM	1	37	22.29	22.29	22.41	
15	16QAM	1	74	22.15	21.57	22.60	
15	16QAM	36	0	21.61	21.86	21.63	23.2
15	16QAM	36	20	21.75	21.66	21.92	
15	16QAM	36	39	21.84	21.52	22.25	
15	16QAM	75	0	21.69	21.69	21.90	23.2
15	64QAM	1	0	21.76	22.33	21.81	
15	64QAM	1	37	22.06	21.91	22.04	
15	64QAM	1	74	22.00	21.35	22.52	22.2
15	64QAM	36	0	21.13	21.43	21.19	
15	64QAM	36	20	21.26	21.31	21.39	
15	64QAM	36	39	21.33	21.08	21.81	20.2
15	64QAM	75	0	21.27	21.27	21.38	
15	256QAM	1	0	19.39	19.39	19.32	
15	256QAM	1	37	19.17	19.15	19.06	20.2
15	256QAM	1	74	18.91	19.01	18.96	
15	256QAM	36	0	19.17	19.27	19.21	
15	256QAM	36	20	19.02	19.01	19.10	20.2
15	256QAM	36	39	18.99	19.07	19.02	



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Report No. :FA451606B

15	256QAM	75	0	19.12	19.14	19.09	Tune-up limit (dBm)
Channel				26090	26340	26640	
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	21.78	22.27	21.79	23.4
10	QPSK	1	25	22.13	22.03	22.30	
10	QPSK	1	49	22.13	21.79	22.63	
10	QPSK	25	0	21.84	22.24	21.81	23.4
10	QPSK	25	12	22.01	21.86	22.05	
10	QPSK	25	25	22.00	21.72	22.22	
10	QPSK	50	0	21.93	22.04	22.02	
10	16QAM	1	0	21.83	22.43	21.93	23.4
10	16QAM	1	25	22.25	22.22	22.51	
10	16QAM	1	49	22.24	21.62	22.61	
10	16QAM	25	0	21.60	21.88	21.67	23.2
10	16QAM	25	12	21.74	21.73	21.88	
10	16QAM	25	25	21.80	21.53	22.26	
10	16QAM	50	0	21.79	21.67	21.87	
10	64QAM	1	0	21.66	22.34	21.83	23.2
10	64QAM	1	25	22.07	21.86	22.01	
10	64QAM	1	49	22.01	21.43	22.53	
10	64QAM	25	0	21.14	21.44	21.11	22.2
10	64QAM	25	12	21.27	21.22	21.43	
10	64QAM	25	25	21.36	21.04	21.87	
10	64QAM	50	0	21.30	21.19	21.43	
10	256QAM	1	0	19.41	19.37	19.39	20.2
10	256QAM	1	25	19.14	19.16	19.10	
10	256QAM	1	49	18.94	19.02	18.93	
10	256QAM	25	0	19.27	19.28	19.20	20.2
10	256QAM	25	12	18.99	19.08	19.05	
10	256QAM	25	25	18.92	18.99	19.00	
10	256QAM	50	0	19.10	19.14	19.03	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	21.80	22.27	21.73	23.4
5	QPSK	1	12	22.05	22.05	22.21	
5	QPSK	1	24	22.15	21.78	22.62	
5	QPSK	12	0	21.85	22.23	21.91	23.4
5	QPSK	12	7	21.93	21.86	22.03	
5	QPSK	12	13	22.02	21.72	22.22	
5	QPSK	25	0	21.99	21.95	21.93	
5	16QAM	1	0	21.77	22.44	22.00	23.4
5	16QAM	1	12	22.33	22.25	22.47	
5	16QAM	1	24	22.19	21.66	22.59	
5	16QAM	12	0	21.56	21.84	21.57	23.2
5	16QAM	12	7	21.76	21.73	21.87	
5	16QAM	12	13	21.82	21.49	22.26	
5	16QAM	25	0	21.78	21.66	21.85	
5	64QAM	1	0	21.71	22.31	21.90	23.2
5	64QAM	1	12	22.02	21.89	22.05	
5	64QAM	1	24	22.04	21.38	22.53	
5	64QAM	12	0	21.09	21.41	21.10	22.2
5	64QAM	12	7	21.28	21.22	21.35	
5	64QAM	12	13	21.38	21.01	21.86	
5	64QAM	25	0	21.22	21.19	21.41	
5	256QAM	1	0	19.36	19.40	19.39	20.2
5	256QAM	1	12	19.12	19.20	19.14	
5	256QAM	1	24	18.95	18.95	18.96	
5	256QAM	12	0	19.23	19.33	19.16	20.2
5	256QAM	12	7	18.99	19.02	19.01	
5	256QAM	12	13	18.96	19.02	19.01	
5	256QAM	25	0	19.08	19.16	19.10	
Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	



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3	QPSK	1	0	21.73	22.26	21.75	23.4
3	QPSK	1	8	22.11	22.04	22.25	
3	QPSK	1	14	22.11	21.80	22.64	
3	QPSK	8	0	21.84	22.15	21.89	23.4
3	QPSK	8	4	21.92	21.88	22.08	
3	QPSK	8	7	22.05	21.74	22.13	
3	QPSK	15	0	21.96	22.00	22.01	23.4
3	16QAM	1	0	21.79	22.40	21.92	
3	16QAM	1	8	22.25	22.26	22.48	
3	16QAM	1	14	22.21	21.61	22.58	23.2
3	16QAM	8	0	21.52	21.93	21.58	
3	16QAM	8	4	21.74	21.72	21.90	
3	16QAM	8	7	21.81	21.47	22.27	23.2
3	16QAM	15	0	21.77	21.71	21.93	
3	64QAM	1	0	21.69	22.26	21.83	
3	64QAM	1	8	22.03	21.92	22.03	22.2
3	64QAM	1	14	22.00	21.43	22.48	
3	64QAM	8	0	21.15	21.44	21.11	
3	64QAM	8	4	21.22	21.27	21.40	20.2
3	64QAM	8	7	21.42	21.00	21.88	
3	64QAM	15	0	21.27	21.29	21.42	
3	256QAM	1	0	19.43	19.39	19.35	20.2
3	256QAM	1	8	19.14	19.18	19.06	
3	256QAM	1	14	18.91	18.98	18.94	
3	256QAM	8	0	19.18	19.31	19.20	20.2
3	256QAM	8	4	19.01	19.03	19.07	
3	256QAM	8	7	18.98	18.98	18.98	
3	256QAM	15	0	19.13	19.15	19.03	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	22.14	22.04	22.04	23.4
1.4	QPSK	1	3	22.06	21.88	21.86	
1.4	QPSK	1	5	22.22	22.01	21.95	
1.4	QPSK	3	0	22.13	22.00	21.95	
1.4	QPSK	3	1	22.17	22.04	21.99	
1.4	QPSK	3	3	22.18	21.97	21.92	
1.4	QPSK	6	0	22.13	21.95	21.92	23.4
1.4	16QAM	1	0	22.44	22.29	22.27	23.4
1.4	16QAM	1	3	22.30	22.15	22.07	
1.4	16QAM	1	5	22.48	22.24	22.17	
1.4	16QAM	3	0	22.22	22.03	21.99	
1.4	16QAM	3	1	22.19	22.02	22.06	
1.4	16QAM	3	3	22.21	21.97	21.90	
1.4	16QAM	6	0	21.97	21.84	21.81	23.2
1.4	64QAM	1	0	22.03	21.98	21.99	23.2
1.4	64QAM	1	3	22.03	21.89	21.86	
1.4	64QAM	1	5	22.16	21.95	21.85	
1.4	64QAM	3	0	21.99	21.93	21.87	
1.4	64QAM	3	1	22.05	21.98	21.86	
1.4	64QAM	3	3	22.05	21.88	21.79	
1.4	64QAM	6	0	21.40	21.30	21.21	22.2
1.4	256QAM	1	0	19.36	19.31	19.30	20.2
1.4	256QAM	1	3	19.08	19.13	18.96	
1.4	256QAM	1	5	18.83	18.91	18.86	
1.4	256QAM	3	0	19.10	19.23	19.12	
1.4	256QAM	3	1	18.92	18.96	18.99	
1.4	256QAM	3	3	18.90	18.91	18.88	
1.4	256QAM	6	0	19.05	19.06	18.95	20.2



<LTE Band 25_Ant 0_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	21.35	21.94	21.55	22.7
20	QPSK	1	49	21.33	21.56	21.54	
20	QPSK	1	99	21.33	21.14	22.29	
20	QPSK	50	0	21.68	21.85	21.75	22.7
20	QPSK	50	24	21.66	21.70	21.75	
20	QPSK	50	50	21.66	21.48	21.74	
20	QPSK	100	0	21.63	21.68	21.81	22.7
20	16QAM	1	0	21.56	22.30	21.89	
20	16QAM	1	49	21.82	21.81	21.91	
20	16QAM	1	99	22.02	21.50	22.16	22.7
20	16QAM	50	0	21.48	21.85	21.55	
20	16QAM	50	24	21.62	21.69	21.76	
20	16QAM	50	50	21.73	21.46	22.13	22.7
20	16QAM	100	0	21.63	21.66	21.78	
20	64QAM	1	0	21.44	22.20	21.80	
20	64QAM	1	49	21.59	21.88	22.01	22.7
20	64QAM	1	99	21.68	21.52	22.10	
20	64QAM	50	0	21.47	21.37	21.09	
20	64QAM	50	24	21.63	21.23	21.29	22.2
20	64QAM	50	50	21.72	21.01	21.67	
20	64QAM	100	0	21.60	21.19	21.28	
20	256QAM	1	0	19.40	19.49	19.37	20.2
20	256QAM	1	49	19.18	19.22	19.18	
20	256QAM	1	99	18.91	19.03	19.03	
20	256QAM	50	0	19.26	19.29	19.20	20.2
20	256QAM	50	24	19.05	19.13	19.06	
20	256QAM	50	50	18.93	19.09	19.05	
20	256QAM	100	0	19.15	19.15	19.08	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	21.24	21.91	21.44	22.7
15	QPSK	1	37	21.31	21.54	21.50	
15	QPSK	1	74	21.22	21.09	22.27	
15	QPSK	36	0	21.59	21.84	21.66	22.7
15	QPSK	36	20	21.65	21.67	21.65	
15	QPSK	36	39	21.62	21.40	21.67	
15	QPSK	75	0	21.61	21.67	21.75	22.7
15	16QAM	1	0	21.52	22.29	21.85	
15	16QAM	1	37	21.76	21.75	21.83	
15	16QAM	1	74	21.97	21.39	22.07	22.7
15	16QAM	36	0	21.46	21.77	21.45	
15	16QAM	36	20	21.57	21.62	21.74	
15	16QAM	36	39	21.66	21.40	22.09	22.7
15	16QAM	75	0	21.62	21.60	21.70	
15	64QAM	1	0	21.37	22.11	21.71	
15	64QAM	1	37	21.50	21.78	21.92	22.7
15	64QAM	1	74	21.62	21.51	22.09	
15	64QAM	36	0	21.43	21.26	21.02	
15	64QAM	36	20	21.53	21.20	21.18	22.2
15	64QAM	36	39	21.68	20.94	21.56	
15	64QAM	75	0	21.50	21.10	21.18	
15	256QAM	1	0	19.35	19.39	19.36	20.2
15	256QAM	1	37	19.07	19.18	19.12	
15	256QAM	1	74	18.90	18.99	19.01	
15	256QAM	36	0	19.17	19.25	19.19	20.2
15	256QAM	36	20	18.99	19.11	18.98	
15	256QAM	36	39	18.88	19.02	18.98	



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15	256QAM	75	0	19.09	19.06	19.02	Tune-up limit (dBm)
Channel				26090	26340	26640	
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	21.29	21.86	21.51	22.7
10	QPSK	1	25	21.28	21.47	21.47	
10	QPSK	1	49	21.24	21.05	22.26	
10	QPSK	25	0	21.66	21.80	21.66	22.7
10	QPSK	25	12	21.58	21.60	21.69	
10	QPSK	25	25	21.56	21.46	21.67	
10	QPSK	50	0	21.59	21.63	21.77	22.7
10	16QAM	1	0	21.46	22.26	21.85	
10	16QAM	1	25	21.74	21.71	21.82	
10	16QAM	1	49	21.94	21.48	22.09	22.7
10	16QAM	25	0	21.38	21.77	21.46	
10	16QAM	25	12	21.54	21.63	21.73	
10	16QAM	25	25	21.65	21.36	22.11	22.7
10	16QAM	50	0	21.55	21.57	21.70	
10	64QAM	1	0	21.41	22.16	21.79	
10	64QAM	1	25	21.54	21.81	21.99	22.7
10	64QAM	1	49	21.66	21.47	22.09	
10	64QAM	25	0	21.38	21.29	21.00	
10	64QAM	25	12	21.57	21.19	21.19	22.2
10	64QAM	25	25	21.67	20.92	21.64	
10	64QAM	50	0	21.59	21.15	21.19	
10	256QAM	1	0	19.36	19.46	19.36	20.2
10	256QAM	1	25	19.11	19.19	19.17	
10	256QAM	1	49	18.82	18.97	19.00	
10	256QAM	25	0	19.18	19.25	19.14	20.2
10	256QAM	25	12	18.97	19.06	18.95	
10	256QAM	25	25	18.89	19.06	18.98	
10	256QAM	50	0	19.05	19.05	18.99	Tune-up limit (dBm)
Channel				26065	26340	26665	
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	21.32	21.83	21.53	22.7
5	QPSK	1	12	21.25	21.47	21.53	
5	QPSK	1	24	21.29	21.06	22.26	
5	QPSK	12	0	21.64	21.79	21.64	22.7
5	QPSK	12	7	21.62	21.63	21.74	
5	QPSK	12	13	21.56	21.47	21.70	
5	QPSK	25	0	21.54	21.57	21.70	22.7
5	16QAM	1	0	21.54	22.25	21.87	
5	16QAM	1	12	21.71	21.80	21.88	
5	16QAM	1	24	21.99	21.41	22.05	22.7
5	16QAM	12	0	21.38	21.82	21.53	
5	16QAM	12	7	21.54	21.62	21.73	
5	16QAM	12	13	21.68	21.38	22.07	22.7
5	16QAM	25	0	21.52	21.55	21.74	
5	64QAM	1	0	21.43	22.19	21.76	
5	64QAM	1	12	21.55	21.83	21.90	22.7
5	64QAM	1	24	21.67	21.41	22.10	
5	64QAM	12	0	21.36	21.34	21.05	
5	64QAM	12	7	21.61	21.13	21.26	22.2
5	64QAM	12	13	21.62	21.00	21.61	
5	64QAM	25	0	21.55	21.08	21.23	
5	256QAM	1	0	19.37	19.39	19.30	20.2
5	256QAM	1	12	19.10	19.17	19.11	
5	256QAM	1	24	18.87	18.95	18.94	
5	256QAM	12	0	19.15	19.28	19.10	20.2
5	256QAM	12	7	18.94	19.02	18.98	
5	256QAM	12	13	18.90	19.00	18.97	
5	256QAM	25	0	19.06	19.05	19.03	Tune-up limit (dBm)
Channel				26055	26340	26675	
Frequency (MHz)				1851.5	1880	1913.5	



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3	QPSK	1	0	21.34	21.90	21.49	22.7
3	QPSK	1	8	21.26	21.51	21.50	
3	QPSK	1	14	21.25	21.08	22.22	
3	QPSK	8	0	21.62	21.79	21.69	22.7
3	QPSK	8	4	21.61	21.66	21.70	
3	QPSK	8	7	21.58	21.38	21.67	
3	QPSK	15	0	21.57	21.57	21.79	
3	16QAM	1	0	21.53	22.26	21.83	22.7
3	16QAM	1	8	21.80	21.74	21.82	
3	16QAM	1	14	21.98	21.39	22.15	
3	16QAM	8	0	21.42	21.84	21.47	22.7
3	16QAM	8	4	21.53	21.59	21.67	
3	16QAM	8	7	21.67	21.38	22.06	
3	16QAM	15	0	21.58	21.65	21.76	
3	64QAM	1	0	21.43	22.11	21.76	22.7
3	64QAM	1	8	21.58	21.82	21.92	
3	64QAM	1	14	21.65	21.44	22.08	
3	64QAM	8	0	21.46	21.26	21.08	22.2
3	64QAM	8	4	21.60	21.17	21.23	
3	64QAM	8	7	21.70	20.98	21.61	
3	64QAM	15	0	21.57	21.09	21.24	
3	256QAM	1	0	19.38	19.38	19.33	20.2
3	256QAM	1	8	19.15	19.20	19.10	
3	256QAM	1	14	18.84	19.00	19.02	
3	256QAM	8	0	19.16	19.25	19.18	20.2
3	256QAM	8	4	18.98	19.06	19.03	
3	256QAM	8	7	18.88	18.99	19.02	
3	256QAM	15	0	19.06	19.13	18.99	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	21.33	21.86	21.52	22.7
1.4	QPSK	1	3	21.27	21.53	21.48	
1.4	QPSK	1	5	21.26	21.07	22.18	
1.4	QPSK	3	0	21.59	21.84	21.71	
1.4	QPSK	3	1	21.59	21.61	21.72	
1.4	QPSK	3	3	21.61	21.46	21.69	
1.4	QPSK	6	0	21.53	21.67	21.72	22.7
1.4	16QAM	1	0	21.51	22.28	21.84	22.7
1.4	16QAM	1	3	21.81	21.76	21.82	
1.4	16QAM	1	5	22.01	21.44	22.13	
1.4	16QAM	3	0	21.37	21.78	21.52	
1.4	16QAM	3	1	21.59	21.67	21.66	
1.4	16QAM	3	3	21.62	21.40	22.04	
1.4	16QAM	6	0	21.60	21.64	21.77	22.7
1.4	64QAM	1	0	21.39	22.19	21.73	22.7
1.4	64QAM	1	3	21.48	21.86	21.98	
1.4	64QAM	1	5	21.62	21.49	22.10	
1.4	64QAM	3	0	21.36	21.26	21.08	
1.4	64QAM	3	1	21.58	21.17	21.27	
1.4	64QAM	3	3	21.63	20.94	21.66	
1.4	64QAM	6	0	21.50	21.14	21.18	22.2
1.4	256QAM	1	0	19.31	19.40	19.33	20.2
1.4	256QAM	1	3	19.09	19.15	19.14	
1.4	256QAM	1	5	18.88	18.98	18.96	
1.4	256QAM	3	0	19.23	19.22	19.13	
1.4	256QAM	3	1	18.97	19.06	19.03	
1.4	256QAM	3	3	18.82	19.01	18.95	
1.4	256QAM	6	0	19.09	19.05	19.05	20.2



<LTE Band 26_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	20.08	20.06	20.15	
15	QPSK	1	37	20.06	20.06	20.08	21.4
15	QPSK	1	74	20.04	20.05	20.02	
15	QPSK	36	0	20.13	20.08	20.05	
15	QPSK	36	20	20.11	20.07	20.04	21.4
15	QPSK	36	39	20.09	20.05	19.99	
15	QPSK	75	0	20.12	20.08	20.04	
15	16QAM	1	0	20.42	20.52	20.68	21.4
15	16QAM	1	37	20.56	20.48	20.63	
15	16QAM	1	74	20.50	20.44	20.58	
15	16QAM	36	0	20.17	20.13	20.14	21.4
15	16QAM	36	20	20.16	20.11	20.12	
15	16QAM	36	39	20.15	20.09	20.11	
15	16QAM	75	0	20.13	20.08	20.08	21.4
15	64QAM	1	0	20.24	20.27	20.49	
15	64QAM	1	37	20.27	20.16	20.38	
15	64QAM	1	74	20.20	20.15	20.41	21.4
15	64QAM	36	0	20.11	20.10	20.11	
15	64QAM	36	20	20.10	20.09	20.12	
15	64QAM	36	39	20.09	20.09	20.09	21.4
15	64QAM	75	0	20.16	20.10	20.14	
15	256QAM	1	0	19.54	19.47	19.54	
15	256QAM	1	37	19.31	19.32	19.23	20.2
15	256QAM	1	74	19.05	19.06	19.10	
15	256QAM	36	0	19.30	19.43	19.30	
15	256QAM	36	20	19.04	19.17	19.17	20.2
15	256QAM	36	39	19.04	19.08	19.13	
15	256QAM	75	0	19.22	19.23	19.24	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	20.04	20.02	20.12	
10	QPSK	1	25	20.03	20.02	20.04	21.4
10	QPSK	1	49	20.00	20.00	19.92	
10	QPSK	25	0	20.11	20.00	20.00	
10	QPSK	25	12	20.03	19.98	19.97	21.4
10	QPSK	25	25	20.05	19.98	19.88	
10	QPSK	50	0	20.06	20.01	19.93	
10	16QAM	1	0	20.38	20.44	20.65	21.4
10	16QAM	1	25	20.52	20.40	20.60	
10	16QAM	1	49	20.43	20.35	20.53	
10	16QAM	25	0	20.10	20.08	20.11	21.4
10	16QAM	25	12	20.07	20.10	20.10	
10	16QAM	25	25	20.04	20.02	20.07	
10	16QAM	50	0	20.06	20.05	20.00	21.4
10	64QAM	1	0	20.16	20.22	20.46	
10	64QAM	1	25	20.24	20.09	20.28	
10	64QAM	1	49	20.15	20.07	20.40	21.4
10	64QAM	25	0	20.01	20.01	20.00	
10	64QAM	25	12	20.08	20.05	20.05	
10	64QAM	25	25	20.01	20.05	20.00	21.4
10	64QAM	50	0	20.09	20.05	20.09	
10	256QAM	1	0	19.51	19.36	19.45	
10	256QAM	1	25	19.29	19.31	19.12	20.2
10	256QAM	1	49	19.04	18.97	19.01	
10	256QAM	25	0	19.25	19.32	19.26	
10	256QAM	25	12	18.95	19.07	19.08	20.2
10	256QAM	25	25	18.97	19.00	19.05	



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10	256QAM	50	0	19.13	19.22	19.23	Tune-up limit (dBm)
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	20.06	19.97	20.06	21.4
5	QPSK	1	12	20.04	19.96	20.02	
5	QPSK	1	24	20.01	19.99	19.91	
5	QPSK	12	0	20.05	19.99	20.00	21.4
5	QPSK	12	7	20.10	19.96	20.03	
5	QPSK	12	13	20.03	20.00	19.93	
5	QPSK	25	0	20.10	20.01	19.95	21.4
5	16QAM	1	0	20.36	20.49	20.57	
5	16QAM	1	12	20.55	20.41	20.53	
5	16QAM	1	24	20.43	20.43	20.48	21.4
5	16QAM	12	0	20.08	20.04	20.05	
5	16QAM	12	7	20.12	20.03	20.05	
5	16QAM	12	13	20.14	20.05	20.06	21.4
5	16QAM	25	0	20.04	19.99	20.00	
5	64QAM	1	0	20.17	20.19	20.41	
5	64QAM	1	12	20.23	20.06	20.30	21.4
5	64QAM	1	24	20.12	20.07	20.37	
5	64QAM	12	0	20.07	20.00	20.08	
5	64QAM	12	7	20.06	19.99	20.01	21.4
5	64QAM	12	13	20.01	20.03	20.04	
5	64QAM	25	0	20.05	20.01	20.12	
5	256QAM	1	0	19.50	19.36	19.51	20.2
5	256QAM	1	12	19.28	19.30	19.17	
5	256QAM	1	24	18.99	18.96	19.06	
5	256QAM	12	0	19.19	19.36	19.27	20.2
5	256QAM	12	7	18.95	19.11	19.06	
5	256QAM	12	13	18.97	19.01	19.12	
5	256QAM	25	0	19.20	19.15	19.17	Tune-up limit (dBm)
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	20.00	19.97	20.05	21.4
3	QPSK	1	8	20.05	20.00	20.00	
3	QPSK	1	14	19.99	19.98	19.93	
3	QPSK	8	0	20.04	20.07	20.02	21.4
3	QPSK	8	4	20.08	19.99	19.96	
3	QPSK	8	7	20.08	20.01	19.92	
3	QPSK	15	0	20.05	20.05	19.97	21.4
3	16QAM	1	0	20.34	20.45	20.61	
3	16QAM	1	8	20.46	20.40	20.53	
3	16QAM	1	14	20.39	20.40	20.56	21.4
3	16QAM	8	0	20.06	20.07	20.13	
3	16QAM	8	4	20.12	20.09	20.02	
3	16QAM	8	7	20.07	20.07	20.03	21.4
3	16QAM	15	0	20.05	20.07	19.99	
3	64QAM	1	0	20.18	20.19	20.46	
3	64QAM	1	8	20.23	20.12	20.29	21.4
3	64QAM	1	14	20.19	20.08	20.38	
3	64QAM	8	0	20.03	20.00	20.03	
3	64QAM	8	4	19.99	19.99	20.07	21.4
3	64QAM	8	7	20.02	20.01	20.05	
3	64QAM	15	0	20.06	20.09	20.13	
3	256QAM	1	0	19.49	19.44	19.47	20.2
3	256QAM	1	8	19.22	19.27	19.15	
3	256QAM	1	14	19.03	19.04	19.01	
3	256QAM	8	0	19.23	19.36	19.26	20.2
3	256QAM	8	4	18.97	19.09	19.14	
3	256QAM	8	7	19.00	18.98	19.07	
3	256QAM	15	0	19.14	19.22	19.22	Tune-up limit (dBm)
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	



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1.4	QPSK	1	0	19.99	19.96	20.08	21.4
1.4	QPSK	1	3	20.03	20.00	20.05	
1.4	QPSK	1	5	20.03	20.01	19.94	
1.4	QPSK	3	0	20.06	19.97	20.00	
1.4	QPSK	3	1	20.06	20.00	20.00	
1.4	QPSK	3	3	20.04	20.03	19.89	
1.4	QPSK	6	0	20.11	20.06	20.02	21.4
1.4	16QAM	1	0	20.41	20.48	20.66	21.4
1.4	16QAM	1	3	20.49	20.41	20.58	
1.4	16QAM	1	5	20.39	20.40	20.49	
1.4	16QAM	3	0	20.15	20.10	20.08	
1.4	16QAM	3	1	20.10	20.04	20.01	
1.4	16QAM	3	3	20.11	20.08	20.08	
1.4	16QAM	6	0	20.09	20.00	19.99	21.4
1.4	64QAM	1	0	20.22	20.17	20.45	21.4
1.4	64QAM	1	3	20.25	20.11	20.36	
1.4	64QAM	1	5	20.14	20.04	20.35	
1.4	64QAM	3	0	20.09	20.03	20.08	
1.4	64QAM	3	1	20.08	20.06	20.08	
1.4	64QAM	3	3	20.03	19.99	19.99	
1.4	64QAM	6	0	20.14	20.02	20.07	21.4
1.4	256QAM	1	0	19.45	19.45	19.44	20.2
1.4	256QAM	1	3	19.23	19.21	19.20	
1.4	256QAM	1	5	19.01	19.03	19.05	
1.4	256QAM	3	0	19.19	19.34	19.22	
1.4	256QAM	3	1	19.02	19.09	19.13	
1.4	256QAM	3	3	18.99	18.97	19.03	
1.4	256QAM	6	0	19.18	19.14	19.16	20.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	19.3
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	17.82	17.85	17.83	
15	QPSK	1	37	17.70	17.63	17.70	19.3
15	QPSK	1	74	17.82	17.71	17.73	
15	QPSK	36	0	17.86	17.88	17.81	
15	QPSK	36	20	17.83	17.76	17.77	19.3
15	QPSK	36	39	17.79	17.76	17.75	
15	QPSK	75	0	17.82	17.78	17.78	
15	16QAM	1	0	17.99	18.15	18.14	19.3
15	16QAM	1	37	17.97	17.98	18.08	
15	16QAM	1	74	17.98	17.95	17.95	
15	16QAM	36	0	17.82	17.81	17.82	19.3
15	16QAM	36	20	17.79	17.78	17.78	
15	16QAM	36	39	17.80	17.75	17.75	
15	16QAM	75	0	17.82	17.79	17.80	19.3
15	64QAM	1	0	18.01	17.94	18.05	
15	64QAM	1	37	17.91	17.84	17.91	
15	64QAM	1	74	17.94	17.84	17.95	19.3
15	64QAM	36	0	17.84	17.83	17.85	
15	64QAM	36	20	17.81	17.80	17.82	
15	64QAM	36	39	17.81	17.76	17.80	19.3
15	64QAM	75	0	17.80	17.76	17.79	
15	256QAM	1	0	17.75	17.77	17.81	
15	256QAM	1	37	17.65	17.61	17.67	19.3
15	256QAM	1	74	17.75	17.65	17.67	
15	256QAM	36	0	17.82	17.84	17.78	
15	256QAM	36	20	17.81	17.69	17.69	19.3
15	256QAM	36	39	17.73	17.68	17.71	
15	256QAM	75	0	17.79	17.73	17.74	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	19.3
10	QPSK	1	0	17.70	17.74	17.68	
10	QPSK	1	25	17.63	17.55	17.55	
10	QPSK	1	49	17.77	17.63	17.59	19.3
10	QPSK	25	0	17.79	17.78	17.68	
10	QPSK	25	12	17.70	17.69	17.64	
10	QPSK	25	25	17.68	17.61	17.62	19.3
10	QPSK	50	0	17.77	17.69	17.64	
10	16QAM	1	0	17.88	18.05	18.03	
10	16QAM	1	25	17.92	17.93	17.93	19.3
10	16QAM	1	49	17.89	17.86	17.81	
10	16QAM	25	0	17.75	17.76	17.68	
10	16QAM	25	12	17.72	17.69	17.73	19.3
10	16QAM	25	25	17.67	17.67	17.69	
10	16QAM	50	0	17.71	17.64	17.74	
10	64QAM	1	0	17.87	17.80	17.95	19.3
10	64QAM	1	25	17.80	17.78	17.78	
10	64QAM	1	49	17.82	17.75	17.81	
10	64QAM	25	0	17.75	17.77	17.75	19.3
10	64QAM	25	12	17.72	17.67	17.75	
10	64QAM	25	25	17.66	17.69	17.66	
10	64QAM	50	0	17.74	17.67	17.70	19.3
10	256QAM	1	0	17.65	17.69	17.71	
10	256QAM	1	25	17.56	17.55	17.57	
10	256QAM	1	49	17.67	17.53	17.54	19.3
10	256QAM	25	0	17.69	17.75	17.73	
10	256QAM	25	12	17.69	17.63	17.55	
10	256QAM	25	25	17.68	17.63	17.57	



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Report No. :FA451606B

10	256QAM	50	0	17.70	17.64	17.60	Tune-up limit (dBm)
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	17.77	17.73	17.78	19.3
5	QPSK	1	12	17.59	17.57	17.60	
5	QPSK	1	24	17.74	17.65	17.63	
5	QPSK	12	0	17.78	17.78	17.70	19.3
5	QPSK	12	7	17.69	17.66	17.64	
5	QPSK	12	13	17.65	17.65	17.67	
5	QPSK	25	0	17.69	17.73	17.64	19.3
5	16QAM	1	0	17.85	18.02	18.03	
5	16QAM	1	12	17.82	17.91	17.98	
5	16QAM	1	24	17.89	17.82	17.80	19.3
5	16QAM	12	0	17.75	17.69	17.67	
5	16QAM	12	7	17.73	17.72	17.66	
5	16QAM	12	13	17.68	17.67	17.64	19.3
5	16QAM	25	0	17.72	17.74	17.68	
5	64QAM	1	0	17.89	17.86	17.98	
5	64QAM	1	12	17.77	17.75	17.83	19.3
5	64QAM	1	24	17.89	17.73	17.85	
5	64QAM	12	0	17.76	17.74	17.73	
5	64QAM	12	7	17.67	17.68	17.73	19.3
5	64QAM	12	13	17.70	17.66	17.73	
5	64QAM	25	0	17.65	17.71	17.69	
5	256QAM	1	0	17.64	17.72	17.67	19.3
5	256QAM	1	12	17.55	17.56	17.56	
5	256QAM	1	24	17.68	17.50	17.52	
5	256QAM	12	0	17.72	17.70	17.65	19.3
5	256QAM	12	7	17.76	17.54	17.60	
5	256QAM	12	13	17.63	17.57	17.61	
5	256QAM	25	0	17.64	17.64	17.68	Tune-up limit (dBm)
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	17.73	17.76	17.75	19.3
3	QPSK	1	8	17.58	17.50	17.57	
3	QPSK	1	14	17.68	17.66	17.59	
3	QPSK	8	0	17.77	17.78	17.66	19.3
3	QPSK	8	4	17.75	17.64	17.63	
3	QPSK	8	7	17.74	17.64	17.69	
3	QPSK	15	0	17.76	17.69	17.69	19.3
3	16QAM	1	0	17.84	18.09	18.00	
3	16QAM	1	8	17.87	17.87	17.99	
3	16QAM	1	14	17.90	17.86	17.85	19.3
3	16QAM	8	0	17.67	17.73	17.67	
3	16QAM	8	4	17.70	17.69	17.67	
3	16QAM	8	7	17.71	17.61	17.60	19.3
3	16QAM	15	0	17.67	17.71	17.72	
3	64QAM	1	0	17.95	17.88	17.93	
3	64QAM	1	8	17.80	17.76	17.80	19.3
3	64QAM	1	14	17.86	17.76	17.86	
3	64QAM	8	0	17.76	17.68	17.70	
3	64QAM	8	4	17.71	17.75	17.69	19.3
3	64QAM	8	7	17.71	17.62	17.67	
3	64QAM	15	0	17.72	17.68	17.74	
3	256QAM	1	0	17.60	17.72	17.72	19.3
3	256QAM	1	8	17.52	17.55	17.61	
3	256QAM	1	14	17.63	17.55	17.53	
3	256QAM	8	0	17.73	17.78	17.73	19.3
3	256QAM	8	4	17.76	17.59	17.57	
3	256QAM	8	7	17.63	17.56	17.60	
3	256QAM	15	0	17.72	17.67	17.68	Tune-up limit (dBm)
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	



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1.4	QPSK	1	0	17.76	17.73	17.68	19.3
1.4	QPSK	1	3	17.73	17.68	17.61	
1.4	QPSK	1	5	17.79	17.76	17.69	
1.4	QPSK	3	0	17.71	17.66	17.60	
1.4	QPSK	3	1	17.77	17.79	17.70	
1.4	QPSK	3	3	17.74	17.76	17.68	19.3
1.4	QPSK	6	0	17.78	17.71	17.66	
1.4	16QAM	1	0	18.06	18.04	17.99	
1.4	16QAM	1	3	17.97	17.89	17.87	
1.4	16QAM	1	5	18.02	18.02	17.93	
1.4	16QAM	3	0	17.81	17.82	17.76	19.3
1.4	16QAM	3	1	17.85	17.79	17.76	
1.4	16QAM	3	3	17.85	17.75	17.72	
1.4	16QAM	6	0	17.88	17.84	17.77	
1.4	64QAM	1	0	17.92	17.90	17.82	
1.4	64QAM	1	3	17.90	17.79	17.75	19.3
1.4	64QAM	1	5	17.94	17.90	17.84	
1.4	64QAM	3	0	17.83	17.80	17.75	
1.4	64QAM	3	1	17.78	17.79	17.74	
1.4	64QAM	3	3	17.86	17.83	17.72	
1.4	64QAM	6	0	17.78	17.73	17.66	19.3
1.4	256QAM	1	0	17.71	17.70	17.60	19.3
1.4	256QAM	1	3	17.66	17.65	17.53	
1.4	256QAM	1	5	17.76	17.73	17.63	
1.4	256QAM	3	0	17.66	17.62	17.56	
1.4	256QAM	3	1	17.71	17.73	17.68	
1.4	256QAM	3	3	17.71	17.69	17.65	19.3
1.4	256QAM	6	0	17.71	17.69	17.59	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	21.76	21.81	21.74	
15	QPSK	1	37	21.60	21.60	21.54	22.7
15	QPSK	1	74	21.69	21.66	21.62	
15	QPSK	36	0	21.83	21.85	21.81	
15	QPSK	36	20	21.80	21.78	21.77	22.7
15	QPSK	36	39	21.80	21.76	21.76	
15	QPSK	75	0	21.83	21.82	21.78	
15	16QAM	1	0	22.15	22.16	22.11	22.7
15	16QAM	1	37	22.15	22.00	22.07	
15	16QAM	1	74	22.09	22.10	21.89	
15	16QAM	36	0	21.84	21.80	21.85	22.7
15	16QAM	36	20	21.81	21.76	21.81	
15	16QAM	36	39	21.82	21.75	21.78	
15	16QAM	75	0	21.83	21.80	21.83	22.7
15	64QAM	1	0	22.02	21.85	22.00	
15	64QAM	1	37	21.94	21.74	21.75	
15	64QAM	1	74	21.93	21.75	21.68	22.2
15	64QAM	36	0	21.35	21.29	21.39	
15	64QAM	36	20	21.34	21.27	21.35	
15	64QAM	36	39	21.33	21.25	21.33	20.2
15	64QAM	75	0	21.34	21.26	21.33	
15	256QAM	1	0	19.53	19.51	19.52	
15	256QAM	1	37	19.24	19.32	19.21	20.2
15	256QAM	1	74	19.04	19.14	19.06	
15	256QAM	36	0	19.37	19.40	19.38	
15	256QAM	36	20	19.07	19.17	19.14	20.2
15	256QAM	36	39	19.12	19.14	19.09	
15	256QAM	75	0	19.23	19.30	19.24	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	21.69	21.75	21.69	22.7
10	QPSK	1	25	21.51	21.55	21.44	
10	QPSK	1	49	21.61	21.61	21.56	
10	QPSK	25	0	21.78	21.77	21.72	22.7
10	QPSK	25	12	21.70	21.68	21.71	
10	QPSK	25	25	21.75	21.70	21.66	
10	QPSK	50	0	21.74	21.71	21.71	22.7
10	16QAM	1	0	22.07	22.07	22.03	
10	16QAM	1	25	22.04	21.93	21.96	
10	16QAM	1	49	21.99	22.00	21.84	22.7
10	16QAM	25	0	21.75	21.75	21.80	
10	16QAM	25	12	21.75	21.66	21.73	
10	16QAM	25	25	21.74	21.64	21.70	22.7
10	16QAM	50	0	21.78	21.72	21.78	
10	64QAM	1	0	21.94	21.75	21.92	
10	64QAM	1	25	21.83	21.68	21.67	22.2
10	64QAM	1	49	21.82	21.66	21.57	
10	64QAM	25	0	21.30	21.21	21.28	
10	64QAM	25	12	21.28	21.22	21.24	20.2
10	64QAM	25	25	21.26	21.14	21.26	
10	64QAM	50	0	21.23	21.20	21.27	
10	256QAM	1	0	19.42	19.43	19.45	20.2
10	256QAM	1	25	19.14	19.27	19.16	
10	256QAM	1	49	18.94	19.08	19.01	
10	256QAM	25	0	19.26	19.30	19.30	20.2
10	256QAM	25	12	18.99	19.11	19.08	
10	256QAM	25	25	19.05	19.09	18.98	



FCC SAR TEST REPORT

Report No. :FA451606B

10	256QAM	50	0	19.18	19.25	19.14	Tune-up limit (dBm)
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	21.70	21.76	21.63	22.7
5	QPSK	1	12	21.49	21.49	21.46	
5	QPSK	1	24	21.58	21.59	21.55	
5	QPSK	12	0	21.73	21.79	21.71	22.7
5	QPSK	12	7	21.69	21.73	21.68	
5	QPSK	12	13	21.75	21.68	21.66	
5	QPSK	25	0	21.73	21.72	21.71	22.7
5	16QAM	1	0	22.06	22.11	22.01	
5	16QAM	1	12	22.05	21.91	21.97	
5	16QAM	1	24	22.00	22.00	21.84	22.7
5	16QAM	12	0	21.73	21.69	21.75	
5	16QAM	12	7	21.70	21.70	21.70	
5	16QAM	12	13	21.73	21.68	21.70	22.7
5	16QAM	25	0	21.73	21.74	21.73	
5	64QAM	1	0	21.94	21.78	21.93	
5	64QAM	1	12	21.85	21.65	21.64	22.7
5	64QAM	1	24	21.87	21.65	21.59	
5	64QAM	12	0	21.27	21.22	21.32	
5	64QAM	12	7	21.25	21.21	21.28	22.2
5	64QAM	12	13	21.25	21.15	21.23	
5	64QAM	25	0	21.28	21.21	21.22	
5	256QAM	1	0	19.48	19.43	19.42	20.2
5	256QAM	1	12	19.19	19.21	19.16	
5	256QAM	1	24	18.93	19.05	18.95	
5	256QAM	12	0	19.27	19.33	19.31	20.2
5	256QAM	12	7	18.99	19.11	19.04	
5	256QAM	12	13	19.02	19.09	19.03	
5	256QAM	25	0	19.13	19.20	19.17	Tune-up limit (dBm)
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	21.66	21.73	21.69	22.7
3	QPSK	1	8	21.51	21.51	21.44	
3	QPSK	1	14	21.60	21.59	21.52	
3	QPSK	8	0	21.72	21.74	21.70	22.7
3	QPSK	8	4	21.72	21.71	21.70	
3	QPSK	8	7	21.72	21.66	21.66	
3	QPSK	15	0	21.75	21.73	21.72	22.7
3	16QAM	1	0	22.07	22.05	22.04	
3	16QAM	1	8	22.06	21.94	21.99	
3	16QAM	1	14	22.03	22.04	21.82	22.7
3	16QAM	8	0	21.79	21.71	21.77	
3	16QAM	8	4	21.72	21.70	21.74	
3	16QAM	8	7	21.73	21.64	21.68	22.7
3	16QAM	15	0	21.78	21.70	21.77	
3	64QAM	1	0	21.91	21.80	21.91	
3	64QAM	1	8	21.89	21.64	21.68	22.7
3	64QAM	1	14	21.82	21.66	21.62	
3	64QAM	8	0	21.27	21.23	21.32	
3	64QAM	8	4	21.29	21.17	21.30	22.2
3	64QAM	8	7	21.22	21.20	21.23	
3	64QAM	15	0	21.28	21.15	21.24	
3	256QAM	1	0	19.42	19.40	19.43	20.2
3	256QAM	1	8	19.16	19.24	19.15	
3	256QAM	1	14	18.99	19.04	18.99	
3	256QAM	8	0	19.30	19.30	19.31	20.2
3	256QAM	8	4	19.01	19.07	19.06	
3	256QAM	8	7	19.04	19.07	19.04	
3	256QAM	15	0	19.18	19.21	19.13	Tune-up limit (dBm)
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	



FCC SAR TEST REPORT

Report No. :FA451606B

1.4	QPSK	1	0	21.79	21.75	21.67	22.7
1.4	QPSK	1	3	21.67	21.59	21.56	
1.4	QPSK	1	5	21.79	21.73	21.65	
1.4	QPSK	3	0	21.66	21.62	21.57	
1.4	QPSK	3	1	21.78	21.79	21.74	
1.4	QPSK	3	3	21.76	21.73	21.66	22.7
1.4	QPSK	6	0	21.78	21.69	21.62	
1.4	16QAM	1	0	22.03	21.98	21.91	
1.4	16QAM	1	3	21.99	21.90	21.83	
1.4	16QAM	1	5	22.06	21.96	21.86	
1.4	16QAM	3	0	21.85	21.79	21.75	22.7
1.4	16QAM	3	1	21.84	21.80	21.71	
1.4	16QAM	3	3	21.80	21.78	21.69	
1.4	16QAM	6	0	21.84	21.77	21.72	
1.4	64QAM	1	0	21.91	21.88	21.81	
1.4	64QAM	1	3	21.85	21.83	21.66	22.7
1.4	64QAM	1	5	21.96	21.91	21.79	
1.4	64QAM	3	0	21.84	21.77	21.71	
1.4	64QAM	3	1	21.87	21.75	21.69	
1.4	64QAM	3	3	21.84	21.80	21.74	
1.4	64QAM	6	0	21.25	21.26	21.13	22.2
1.4	256QAM	1	0	19.42	19.41	19.50	20.2
1.4	256QAM	1	3	19.29	19.26	19.19	
1.4	256QAM	1	5	18.93	19.05	19.08	
1.4	256QAM	3	0	19.30	19.37	19.25	
1.4	256QAM	3	1	19.09	19.16	19.13	
1.4	256QAM	3	3	19.09	19.06	19.00	20.2
1.4	256QAM	6	0	19.12	19.32	19.17	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.02	24.07	24.06	
15	QPSK	1	37	23.94	24.06	23.97	25.2
15	QPSK	1	74	23.96	23.91	23.88	
15	QPSK	36	0	23.05	23.10	23.07	
15	QPSK	36	20	23.02	23.05	23.03	24.2
15	QPSK	36	39	23.07	23.07	23.02	
15	QPSK	75	0	23.12	23.13	23.11	
15	16QAM	1	0	23.38	23.38	23.41	24.2
15	16QAM	1	37	23.38	23.38	23.33	
15	16QAM	1	74	23.37	23.37	23.13	
15	16QAM	36	0	22.14	22.14	22.14	23.2
15	16QAM	36	20	22.13	22.13	22.09	
15	16QAM	36	39	22.10	22.10	22.05	
15	16QAM	75	0	22.12	22.12	22.11	23.2
15	64QAM	1	0	22.22	22.22	22.29	
15	64QAM	1	37	22.21	22.21	22.08	
15	64QAM	1	74	22.20	22.20	21.90	22.2
15	64QAM	36	0	21.19	21.19	21.18	
15	64QAM	36	20	21.19	21.19	21.14	
15	64QAM	36	39	21.15	21.15	21.09	20.2
15	64QAM	75	0	21.13	21.13	21.10	
15	256QAM	1	0	19.56	19.58	19.55	
15	256QAM	1	37	19.32	19.34	19.29	20.2
15	256QAM	1	74	19.06	19.16	19.14	
15	256QAM	36	0	19.41	19.44	19.40	
15	256QAM	36	20	19.15	19.25	19.22	20.2
15	256QAM	36	39	19.14	19.19	19.15	
15	256QAM	75	0	19.27	19.34	19.27	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.97	24.02	24.03	
10	QPSK	1	25	23.89	23.97	23.94	25.2
10	QPSK	1	49	23.95	23.83	23.83	
10	QPSK	25	0	23.03	23.00	23.04	
10	QPSK	25	12	22.97	23.00	22.96	24.2
10	QPSK	25	25	23.04	23.01	22.98	
10	QPSK	50	0	23.11	23.06	23.07	
10	16QAM	1	0	23.30	23.25	23.39	24.2
10	16QAM	1	25	23.27	23.21	23.23	
10	16QAM	1	49	23.29	23.13	23.07	
10	16QAM	25	0	22.16	22.13	22.12	23.2
10	16QAM	25	12	22.14	22.11	22.11	
10	16QAM	25	25	22.13	22.08	22.06	
10	16QAM	50	0	22.13	22.09	22.12	23.2
10	64QAM	1	0	22.22	22.25	22.29	
10	64QAM	1	25	22.27	22.15	22.07	
10	64QAM	1	49	22.32	22.14	22.02	22.2
10	64QAM	25	0	21.15	21.11	21.12	
10	64QAM	25	12	21.12	21.11	21.10	
10	64QAM	25	25	21.09	21.09	21.04	20.2
10	64QAM	50	0	21.14	21.12	21.14	
10	256QAM	1	0	19.55	19.57	19.50	
10	256QAM	1	25	19.29	19.27	19.20	20.2
10	256QAM	1	49	19.06	19.15	19.12	
10	256QAM	25	0	19.38	19.39	19.38	
10	256QAM	25	12	19.11	19.24	19.12	20.2
10	256QAM	25	25	19.10	19.18	19.07	



FCC SAR TEST REPORT

Report No. :FA451606B

10	256QAM	50	0	19.20	19.32	19.25	Tune-up limit (dBm)
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.99	24.04	23.99	25.2
5	QPSK	1	12	23.85	24.03	23.95	
5	QPSK	1	24	23.95	23.85	23.85	
5	QPSK	12	0	22.98	23.03	23.06	24.2
5	QPSK	12	7	22.92	23.04	23.01	
5	QPSK	12	13	22.97	22.99	22.96	
5	QPSK	25	0	23.05	23.12	23.10	24.2
5	16QAM	1	0	23.34	23.34	23.33	
5	16QAM	1	12	23.46	23.28	23.27	
5	16QAM	1	24	23.43	23.24	23.15	23.2
5	16QAM	12	0	22.12	22.04	22.04	
5	16QAM	12	7	22.14	22.07	22.03	
5	16QAM	12	13	22.16	22.04	21.95	23.2
5	16QAM	25	0	22.17	22.12	22.05	
5	64QAM	1	0	22.18	22.15	22.18	
5	64QAM	1	12	22.17	22.11	22.07	23.2
5	64QAM	1	24	22.30	22.12	21.96	
5	64QAM	12	0	21.12	21.09	21.10	
5	64QAM	12	7	21.14	21.08	21.09	22.2
5	64QAM	12	13	21.14	21.07	21.02	
5	64QAM	25	0	21.13	21.07	21.03	
5	256QAM	1	0	19.56	19.50	19.47	20.2
5	256QAM	1	12	19.31	19.29	19.25	
5	256QAM	1	24	19.01	19.06	19.12	
5	256QAM	12	0	19.36	19.35	19.37	20.2
5	256QAM	12	7	19.10	19.17	19.16	
5	256QAM	12	13	19.11	19.16	19.11	
5	256QAM	25	0	19.25	19.32	19.22	Tune-up limit (dBm)
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.98	23.98	23.99	25.2
3	QPSK	1	8	23.89	24.03	23.89	
3	QPSK	1	14	23.89	23.87	23.80	
3	QPSK	8	0	23.01	23.08	23.01	24.2
3	QPSK	8	4	22.97	23.02	22.94	
3	QPSK	8	7	23.02	23.02	22.94	
3	QPSK	15	0	23.03	23.10	23.06	24.2
3	16QAM	1	0	23.37	23.31	23.29	
3	16QAM	1	8	23.26	23.10	23.05	
3	16QAM	1	14	23.33	23.20	23.15	23.2
3	16QAM	8	0	22.10	22.05	22.01	
3	16QAM	8	4	22.12	22.08	21.96	
3	16QAM	8	7	22.15	22.07	21.97	23.2
3	16QAM	15	0	22.07	22.00	21.95	
3	64QAM	1	0	22.17	22.15	22.09	
3	64QAM	1	8	22.16	22.08	21.96	23.2
3	64QAM	1	14	22.32	22.17	21.99	
3	64QAM	8	0	21.12	21.09	21.06	
3	64QAM	8	4	21.13	21.05	21.02	22.2
3	64QAM	8	7	21.16	21.09	21.02	
3	64QAM	15	0	21.10	21.04	20.99	
3	256QAM	1	0	19.50	19.49	19.45	20.2
3	256QAM	1	8	19.27	19.25	19.28	
3	256QAM	1	14	19.03	19.08	19.05	
3	256QAM	8	0	19.40	19.34	19.33	20.2
3	256QAM	8	4	19.10	19.21	19.17	
3	256QAM	8	7	19.09	19.14	19.09	
3	256QAM	15	0	19.18	19.29	19.19	Tune-up limit (dBm)
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	



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Report No. :FA451606B

1.4	QPSK	1	0	24.01	24.01	23.92	25.2
1.4	QPSK	1	3	23.96	23.92	23.82	
1.4	QPSK	1	5	23.92	23.98	23.84	
1.4	QPSK	3	0	23.96	23.92	23.84	
1.4	QPSK	3	1	23.98	23.92	23.74	
1.4	QPSK	3	3	23.96	23.91	23.72	
1.4	QPSK	6	0	23.04	23.01	22.92	24.2
1.4	16QAM	1	0	23.32	23.29	23.17	24.2
1.4	16QAM	1	3	23.24	23.23	23.02	
1.4	16QAM	1	5	23.27	23.27	23.11	
1.4	16QAM	3	0	23.05	23.07	22.92	
1.4	16QAM	3	1	23.02	23.01	22.92	
1.4	16QAM	3	3	23.09	23.05	22.89	
1.4	16QAM	6	0	22.10	22.02	21.95	23.2
1.4	64QAM	1	0	22.26	22.08	22.05	23.2
1.4	64QAM	1	3	22.04	22.08	22.01	
1.4	64QAM	1	5	22.19	22.13	22.00	
1.4	64QAM	3	0	22.11	22.02	21.94	
1.4	64QAM	3	1	22.16	22.07	21.97	
1.4	64QAM	3	3	22.19	22.09	21.95	
1.4	64QAM	6	0	21.07	21.06	20.95	22.2
1.4	256QAM	1	0	19.47	19.49	19.55	20.2
1.4	256QAM	1	3	19.31	19.34	19.22	
1.4	256QAM	1	5	19.01	19.11	19.11	
1.4	256QAM	3	0	19.37	19.41	19.32	
1.4	256QAM	3	1	19.12	19.19	19.20	
1.4	256QAM	3	3	19.12	19.09	19.05	
1.4	256QAM	6	0	19.19	19.34	19.25	20.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	21.76	21.81	21.74	
15	QPSK	1	37	21.60	21.60	21.54	22.7
15	QPSK	1	74	21.69	21.66	21.62	
15	QPSK	36	0	21.83	21.85	21.81	
15	QPSK	36	20	21.80	21.78	21.77	22.7
15	QPSK	36	39	21.80	21.76	21.76	
15	QPSK	75	0	21.83	21.82	21.78	
15	16QAM	1	0	22.15	22.16	22.11	22.7
15	16QAM	1	37	22.15	22.00	22.07	
15	16QAM	1	74	22.09	22.10	21.89	
15	16QAM	36	0	21.84	21.80	21.85	22.7
15	16QAM	36	20	21.81	21.76	21.81	
15	16QAM	36	39	21.82	21.75	21.78	
15	16QAM	75	0	21.83	21.80	21.83	22.7
15	64QAM	1	0	22.02	21.85	22.00	
15	64QAM	1	37	21.94	21.74	21.75	
15	64QAM	1	74	21.93	21.75	21.68	22.2
15	64QAM	36	0	21.35	21.29	21.39	
15	64QAM	36	20	21.34	21.27	21.35	
15	64QAM	36	39	21.33	21.25	21.33	20.2
15	64QAM	75	0	21.34	21.26	21.33	
15	256QAM	1	0	19.53	19.51	19.52	
15	256QAM	1	37	19.24	19.32	19.21	20.2
15	256QAM	1	74	19.04	19.14	19.06	
15	256QAM	36	0	19.37	19.40	19.38	
15	256QAM	36	20	19.07	19.17	19.14	20.2
15	256QAM	36	39	19.12	19.14	19.09	
15	256QAM	75	0	19.23	19.30	19.24	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	21.69	21.75	21.69	22.7
10	QPSK	1	25	21.51	21.55	21.44	
10	QPSK	1	49	21.61	21.61	21.56	
10	QPSK	25	0	21.78	21.77	21.72	22.7
10	QPSK	25	12	21.70	21.68	21.71	
10	QPSK	25	25	21.75	21.70	21.66	
10	QPSK	50	0	21.74	21.71	21.71	22.7
10	16QAM	1	0	22.07	22.07	22.03	
10	16QAM	1	25	22.04	21.93	21.96	
10	16QAM	1	49	21.99	22.00	21.84	22.7
10	16QAM	25	0	21.75	21.75	21.80	
10	16QAM	25	12	21.75	21.66	21.73	
10	16QAM	25	25	21.74	21.64	21.70	22.7
10	16QAM	50	0	21.78	21.72	21.78	
10	64QAM	1	0	21.94	21.75	21.92	
10	64QAM	1	25	21.83	21.68	21.67	22.2
10	64QAM	1	49	21.82	21.66	21.57	
10	64QAM	25	0	21.30	21.21	21.28	
10	64QAM	25	12	21.28	21.22	21.24	20.2
10	64QAM	25	25	21.26	21.14	21.26	
10	64QAM	50	0	21.23	21.20	21.27	
10	256QAM	1	0	19.42	19.43	19.45	20.2
10	256QAM	1	25	19.14	19.27	19.16	
10	256QAM	1	49	18.94	19.08	19.01	
10	256QAM	25	0	19.26	19.30	19.30	20.2
10	256QAM	25	12	18.99	19.11	19.08	
10	256QAM	25	25	19.05	19.09	18.98	



FCC SAR TEST REPORT

Report No. :FA451606B

10	256QAM	50	0	19.18	19.25	19.14	Tune-up limit (dBm)
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	21.70	21.76	21.63	22.7
5	QPSK	1	12	21.49	21.49	21.46	
5	QPSK	1	24	21.58	21.59	21.55	
5	QPSK	12	0	21.73	21.79	21.71	22.7
5	QPSK	12	7	21.69	21.73	21.68	
5	QPSK	12	13	21.75	21.68	21.66	
5	QPSK	25	0	21.73	21.72	21.71	22.7
5	16QAM	1	0	22.06	22.11	22.01	
5	16QAM	1	12	22.05	21.91	21.97	
5	16QAM	1	24	22.00	22.00	21.84	22.7
5	16QAM	12	0	21.73	21.69	21.75	
5	16QAM	12	7	21.70	21.70	21.70	
5	16QAM	12	13	21.73	21.68	21.70	22.7
5	16QAM	25	0	21.73	21.74	21.73	
5	64QAM	1	0	21.94	21.78	21.93	
5	64QAM	1	12	21.85	21.65	21.64	22.7
5	64QAM	1	24	21.87	21.65	21.59	
5	64QAM	12	0	21.27	21.22	21.32	
5	64QAM	12	7	21.25	21.21	21.28	22.2
5	64QAM	12	13	21.25	21.15	21.23	
5	64QAM	25	0	21.28	21.21	21.22	
5	256QAM	1	0	19.48	19.43	19.42	20.2
5	256QAM	1	12	19.19	19.21	19.16	
5	256QAM	1	24	18.93	19.05	18.95	
5	256QAM	12	0	19.27	19.33	19.31	20.2
5	256QAM	12	7	18.99	19.11	19.04	
5	256QAM	12	13	19.02	19.09	19.03	
5	256QAM	25	0	19.13	19.20	19.17	Tune-up limit (dBm)
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	21.66	21.73	21.69	22.7
3	QPSK	1	8	21.51	21.51	21.44	
3	QPSK	1	14	21.60	21.59	21.52	
3	QPSK	8	0	21.72	21.74	21.70	22.7
3	QPSK	8	4	21.72	21.71	21.70	
3	QPSK	8	7	21.72	21.66	21.66	
3	QPSK	15	0	21.75	21.73	21.72	22.7
3	16QAM	1	0	22.07	22.05	22.04	
3	16QAM	1	8	22.06	21.94	21.99	
3	16QAM	1	14	22.03	22.04	21.82	22.7
3	16QAM	8	0	21.79	21.71	21.77	
3	16QAM	8	4	21.72	21.70	21.74	
3	16QAM	8	7	21.73	21.64	21.68	22.7
3	16QAM	15	0	21.78	21.70	21.77	
3	64QAM	1	0	21.91	21.80	21.91	
3	64QAM	1	8	21.89	21.64	21.68	22.7
3	64QAM	1	14	21.82	21.66	21.62	
3	64QAM	8	0	21.27	21.23	21.32	
3	64QAM	8	4	21.29	21.17	21.30	22.2
3	64QAM	8	7	21.22	21.20	21.23	
3	64QAM	15	0	21.28	21.15	21.24	
3	256QAM	1	0	19.42	19.40	19.43	20.2
3	256QAM	1	8	19.16	19.24	19.15	
3	256QAM	1	14	18.99	19.04	18.99	
3	256QAM	8	0	19.30	19.30	19.31	20.2
3	256QAM	8	4	19.01	19.07	19.06	
3	256QAM	8	7	19.04	19.07	19.04	
3	256QAM	15	0	19.18	19.21	19.13	Tune-up limit (dBm)
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	



FCC SAR TEST REPORT

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1.4	QPSK	1	0	21.79	21.75	21.67	22.7
1.4	QPSK	1	3	21.67	21.59	21.56	
1.4	QPSK	1	5	21.79	21.73	21.65	
1.4	QPSK	3	0	21.66	21.62	21.57	
1.4	QPSK	3	1	21.78	21.79	21.74	
1.4	QPSK	3	3	21.76	21.73	21.66	22.7
1.4	QPSK	6	0	21.78	21.69	21.62	
1.4	16QAM	1	0	22.03	21.98	21.91	
1.4	16QAM	1	3	21.99	21.90	21.83	
1.4	16QAM	1	5	22.06	21.96	21.86	
1.4	16QAM	3	0	21.85	21.79	21.75	22.7
1.4	16QAM	3	1	21.84	21.80	21.71	
1.4	16QAM	3	3	21.80	21.78	21.69	
1.4	16QAM	6	0	21.84	21.77	21.72	
1.4	64QAM	1	0	21.91	21.88	21.81	
1.4	64QAM	1	3	21.85	21.83	21.66	22.7
1.4	64QAM	1	5	21.96	21.91	21.79	
1.4	64QAM	3	0	21.84	21.77	21.71	
1.4	64QAM	3	1	21.87	21.75	21.69	
1.4	64QAM	3	3	21.84	21.80	21.74	
1.4	64QAM	6	0	21.25	21.26	21.13	22.2
1.4	256QAM	1	0	19.42	19.41	19.50	20.2
1.4	256QAM	1	3	19.29	19.26	19.19	
1.4	256QAM	1	5	18.93	19.05	19.08	
1.4	256QAM	3	0	19.30	19.37	19.25	
1.4	256QAM	3	1	19.09	19.16	19.13	
1.4	256QAM	3	3	19.09	19.06	19.00	20.2
1.4	256QAM	6	0	19.12	19.32	19.17	



<LTE Band 30_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		24.23		25.2
10	QPSK	1	25		23.94		
10	QPSK	1	49		23.90		
10	QPSK	25	0		21.66		22.7
10	QPSK	25	12		21.65		
10	QPSK	25	25		21.60		
10	QPSK	50	0		21.64		24.2
10	16QAM	1	0		23.53		
10	16QAM	1	25		23.43		
10	16QAM	1	49		23.31		21.7
10	16QAM	25	0		20.70		
10	16QAM	25	12		20.71		
10	16QAM	25	25		20.67		23.2
10	16QAM	50	0		20.65		
10	64QAM	1	0		22.35		
10	64QAM	1	25		22.27		22.2
10	64QAM	1	49		22.17		
10	64QAM	25	0		21.18		
10	64QAM	25	12		21.17		20.2
10	64QAM	25	25		21.08		
10	64QAM	50	0		21.17		
10	256QAM	1	0		19.42		20.2
10	256QAM	1	25		19.21		
10	256QAM	1	49		19.10		
10	256QAM	25	0		18.27		20.2
10	256QAM	25	12		18.25		
10	256QAM	25	25		18.28		
10	256QAM	50	0		18.24		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	24.22	24.22	24.22	25.2
5	QPSK	1	12	24.20	24.20	24.20	
5	QPSK	1	24	24.18	24.16	24.06	
5	QPSK	12	0	21.61	21.63	21.63	22.7
5	QPSK	12	7	21.69	21.64	21.66	
5	QPSK	12	13	21.69	21.66	21.60	
5	QPSK	25	0	21.67	21.67	21.66	24.2
5	16QAM	1	0	23.56	23.57	23.59	
5	16QAM	1	12	23.50	23.52	23.48	
5	16QAM	1	24	23.46	23.40	23.42	21.7
5	16QAM	12	0	20.75	20.74	20.73	
5	16QAM	12	7	20.77	20.75	20.70	
5	16QAM	12	13	20.78	20.71	20.67	23.2
5	16QAM	25	0	20.74	20.72	20.72	
5	64QAM	1	0	22.42	22.41	22.42	
5	64QAM	1	12	22.48	22.37	22.33	22.2
5	64QAM	1	24	22.34	22.27	22.23	
5	64QAM	12	0	21.26	21.19	21.21	
5	64QAM	12	7	21.29	21.22	21.18	20.2
5	64QAM	12	13	21.25	21.19	21.13	
5	64QAM	25	0	21.22	21.19	21.16	
5	256QAM	1	0	19.42	19.39	19.37	20.2
5	256QAM	1	12	19.19	19.13	19.13	
5	256QAM	1	24	19.09	19.08	19.06	
5	256QAM	12	0	18.29	18.28	18.28	20.2
5	256QAM	12	7	18.28	18.23	18.25	
5	256QAM	12	13	18.28	18.21	18.25	
5	256QAM	25	0	18.24	18.21	18.27	



<LTE Band 30_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		24.23		25.2
10	QPSK	1	25		23.94		
10	QPSK	1	49		23.90		
10	QPSK	25	0		21.66		22.7
10	QPSK	25	12		21.65		
10	QPSK	25	25		21.60		
10	QPSK	50	0		21.64		24.2
10	16QAM	1	0		23.53		
10	16QAM	1	25		23.43		
10	16QAM	1	49		23.31		21.7
10	16QAM	25	0		20.70		
10	16QAM	25	12		20.71		
10	16QAM	25	25		20.67		23.2
10	16QAM	50	0		20.65		
10	64QAM	1	0		22.35		
10	64QAM	1	25		22.27		22.2
10	64QAM	1	49		22.17		
10	64QAM	25	0		21.18		
10	64QAM	25	12		21.17		20.2
10	64QAM	25	25		21.08		
10	64QAM	50	0		21.17		
10	256QAM	1	0		19.42		20.2
10	256QAM	1	25		19.21		
10	256QAM	1	49		19.10		
10	256QAM	25	0		18.27		20.2
10	256QAM	25	12		18.25		
10	256QAM	25	25		18.28		
10	256QAM	50	0		18.24		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	24.22	24.22	24.22	25.2
5	QPSK	1	12	24.20	24.20	24.20	
5	QPSK	1	24	24.18	24.16	24.06	
5	QPSK	12	0	21.61	21.63	21.63	22.7
5	QPSK	12	7	21.69	21.64	21.66	
5	QPSK	12	13	21.69	21.66	21.60	
5	QPSK	25	0	21.67	21.67	21.66	24.2
5	16QAM	1	0	23.56	23.57	23.59	
5	16QAM	1	12	23.50	23.52	23.48	
5	16QAM	1	24	23.46	23.40	23.42	21.7
5	16QAM	12	0	20.75	20.74	20.73	
5	16QAM	12	7	20.77	20.75	20.70	
5	16QAM	12	13	20.78	20.71	20.67	23.2
5	16QAM	25	0	20.74	20.72	20.72	
5	64QAM	1	0	22.42	22.41	22.42	
5	64QAM	1	12	22.48	22.37	22.33	22.2
5	64QAM	1	24	22.34	22.27	22.23	
5	64QAM	12	0	21.26	21.19	21.21	
5	64QAM	12	7	21.29	21.22	21.18	20.2
5	64QAM	12	13	21.25	21.19	21.13	
5	64QAM	25	0	21.22	21.19	21.16	
5	256QAM	1	0	19.42	19.39	19.37	20.2
5	256QAM	1	12	19.19	19.13	19.13	
5	256QAM	1	24	19.09	19.08	19.06	
5	256QAM	12	0	18.29	18.28	18.28	20.2
5	256QAM	12	7	18.28	18.23	18.25	
5	256QAM	12	13	18.28	18.21	18.25	
5	256QAM	25	0	18.24	18.21	18.27	



<LTE Band 30_Ant 0_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		24.23		24.6
10	QPSK	1	25		23.94		
10	QPSK	1	49		23.90		
10	QPSK	25	0		21.66		22.7
10	QPSK	25	12		21.65		
10	QPSK	25	25		21.60		
10	QPSK	50	0		21.64		24.2
10	16QAM	1	0		23.53		
10	16QAM	1	25		23.43		
10	16QAM	1	49		23.31		21.7
10	16QAM	25	0		20.70		
10	16QAM	25	12		20.71		
10	16QAM	25	25		20.67		23.2
10	16QAM	50	0		20.65		
10	64QAM	1	0		22.35		
10	64QAM	1	25		22.27		22.2
10	64QAM	1	49		22.17		
10	64QAM	25	0		21.18		
10	64QAM	25	12		21.17		20.2
10	64QAM	25	25		21.08		
10	64QAM	50	0		21.17		
10	256QAM	1	0		19.42		20.2
10	256QAM	1	25		19.21		
10	256QAM	1	49		19.10		
10	256QAM	25	0		18.27		20.2
10	256QAM	25	12		18.25		
10	256QAM	25	25		18.28		
10	256QAM	50	0		18.24		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	24.22	24.22	24.22	24.6
5	QPSK	1	12	24.20	24.20	24.20	
5	QPSK	1	24	24.18	24.16	24.06	
5	QPSK	12	0	21.61	21.63	21.63	22.7
5	QPSK	12	7	21.69	21.64	21.66	
5	QPSK	12	13	21.69	21.66	21.60	
5	QPSK	25	0	21.67	21.67	21.66	24.2
5	16QAM	1	0	23.56	23.57	23.59	
5	16QAM	1	12	23.50	23.52	23.48	
5	16QAM	1	24	23.46	23.40	23.42	21.7
5	16QAM	12	0	20.75	20.74	20.73	
5	16QAM	12	7	20.77	20.75	20.70	
5	16QAM	12	13	20.78	20.71	20.67	23.2
5	16QAM	25	0	20.74	20.72	20.72	
5	64QAM	1	0	22.42	22.41	22.42	
5	64QAM	1	12	22.48	22.37	22.33	22.2
5	64QAM	1	24	22.34	22.27	22.23	
5	64QAM	12	0	21.26	21.19	21.21	
5	64QAM	12	7	21.29	21.22	21.18	20.2
5	64QAM	12	13	21.25	21.19	21.13	
5	64QAM	25	0	21.22	21.19	21.16	
5	256QAM	1	0	19.42	19.39	19.37	20.2
5	256QAM	1	12	19.19	19.13	19.13	
5	256QAM	1	24	19.09	19.08	19.06	
5	256QAM	12	0	18.29	18.28	18.28	20.2
5	256QAM	12	7	18.28	18.23	18.25	
5	256QAM	12	13	18.28	18.21	18.25	
5	256QAM	25	0	18.24	18.21	18.27	



<LTE Band 30_Ant 0_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		24.23		25.2
10	QPSK	1	25		23.94		
10	QPSK	1	49		23.90		
10	QPSK	25	0		21.66		22.7
10	QPSK	25	12		21.65		
10	QPSK	25	25		21.60		
10	QPSK	50	0		21.64		24.2
10	16QAM	1	0		23.53		
10	16QAM	1	25		23.43		
10	16QAM	1	49		23.31		21.7
10	16QAM	25	0		20.70		
10	16QAM	25	12		20.71		
10	16QAM	25	25		20.67		23.2
10	16QAM	50	0		20.65		
10	64QAM	1	0		22.35		
10	64QAM	1	25		22.27		22.2
10	64QAM	1	49		22.17		
10	64QAM	25	0		21.18		
10	64QAM	25	12		21.17		20.2
10	64QAM	25	25		21.08		
10	64QAM	50	0		21.17		
10	256QAM	1	0		19.42		20.2
10	256QAM	1	25		19.21		
10	256QAM	1	49		19.10		
10	256QAM	25	0		18.27		20.2
10	256QAM	25	12		18.25		
10	256QAM	25	25		18.28		
10	256QAM	50	0		18.24		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	24.22	24.22	24.22	25.2
5	QPSK	1	12	24.20	24.20	24.20	
5	QPSK	1	24	24.18	24.16	24.06	
5	QPSK	12	0	21.61	21.63	21.63	22.7
5	QPSK	12	7	21.69	21.64	21.66	
5	QPSK	12	13	21.69	21.66	21.60	
5	QPSK	25	0	21.67	21.67	21.66	24.2
5	16QAM	1	0	23.56	23.57	23.59	
5	16QAM	1	12	23.50	23.52	23.48	
5	16QAM	1	24	23.46	23.40	23.42	21.7
5	16QAM	12	0	20.75	20.74	20.73	
5	16QAM	12	7	20.77	20.75	20.70	
5	16QAM	12	13	20.78	20.71	20.67	23.2
5	16QAM	25	0	20.74	20.72	20.72	
5	64QAM	1	0	22.42	22.41	22.42	
5	64QAM	1	12	22.48	22.37	22.33	22.2
5	64QAM	1	24	22.34	22.27	22.23	
5	64QAM	12	0	21.26	21.19	21.21	
5	64QAM	12	7	21.29	21.22	21.18	20.2
5	64QAM	12	13	21.25	21.19	21.13	
5	64QAM	25	0	21.22	21.19	21.16	
5	256QAM	1	0	19.42	19.39	19.37	20.2
5	256QAM	1	12	19.19	19.13	19.13	
5	256QAM	1	24	19.09	19.08	19.06	
5	256QAM	12	0	18.29	18.28	18.28	20.2
5	256QAM	12	7	18.28	18.23	18.25	
5	256QAM	12	13	18.28	18.21	18.25	
5	256QAM	25	0	18.24	18.21	18.27	



<LTE Band 30_Ant 0_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		24.23		24.6
10	QPSK	1	25		23.94		
10	QPSK	1	49		23.90		
10	QPSK	25	0		21.66		22.7
10	QPSK	25	12		21.65		
10	QPSK	25	25		21.60		
10	QPSK	50	0		21.64		24.2
10	16QAM	1	0		23.53		
10	16QAM	1	25		23.43		
10	16QAM	1	49		23.31		21.7
10	16QAM	25	0		20.70		
10	16QAM	25	12		20.71		
10	16QAM	25	25		20.67		23.2
10	16QAM	50	0		20.65		
10	64QAM	1	0		22.35		
10	64QAM	1	25		22.27		22.2
10	64QAM	1	49		22.17		
10	64QAM	25	0		21.18		
10	64QAM	25	12		21.17		20.2
10	64QAM	25	25		21.08		
10	64QAM	50	0		21.17		
10	256QAM	1	0		19.42		20.2
10	256QAM	1	25		19.21		
10	256QAM	1	49		19.10		
10	256QAM	25	0		18.27		20.2
10	256QAM	25	12		18.25		
10	256QAM	25	25		18.28		
10	256QAM	50	0		18.24		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	24.22	24.22	24.22	24.6
5	QPSK	1	12	24.20	24.20	24.20	
5	QPSK	1	24	24.18	24.16	24.06	
5	QPSK	12	0	21.61	21.63	21.63	22.7
5	QPSK	12	7	21.69	21.64	21.66	
5	QPSK	12	13	21.69	21.66	21.60	
5	QPSK	25	0	21.67	21.67	21.66	24.2
5	16QAM	1	0	23.56	23.57	23.59	
5	16QAM	1	12	23.50	23.52	23.48	
5	16QAM	1	24	23.46	23.40	23.42	21.7
5	16QAM	12	0	20.75	20.74	20.73	
5	16QAM	12	7	20.77	20.75	20.70	
5	16QAM	12	13	20.78	20.71	20.67	23.2
5	16QAM	25	0	20.74	20.72	20.72	
5	64QAM	1	0	22.42	22.41	22.42	
5	64QAM	1	12	22.48	22.37	22.33	22.2
5	64QAM	1	24	22.34	22.27	22.23	
5	64QAM	12	0	21.26	21.19	21.21	
5	64QAM	12	7	21.29	21.22	21.18	20.2
5	64QAM	12	13	21.25	21.19	21.13	
5	64QAM	25	0	21.22	21.19	21.16	
5	256QAM	1	0	19.42	19.39	19.37	20.2
5	256QAM	1	12	19.19	19.13	19.13	
5	256QAM	1	24	19.09	19.08	19.06	
5	256QAM	12	0	18.29	18.28	18.28	20.2
5	256QAM	12	7	18.28	18.23	18.25	
5	256QAM	12	13	18.28	18.21	18.25	
5	256QAM	25	0	18.24	18.21	18.27	



<LTE Band 66_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.61	24.64	24.62	
20	QPSK	1	49	24.60	24.58	24.45	25.2
20	QPSK	1	99	24.52	24.38	24.07	
20	QPSK	50	0	23.60	23.61	23.51	
20	QPSK	50	24	23.59	23.53	23.39	24.2
20	QPSK	50	50	23.58	23.46	23.23	
20	QPSK	100	0	23.61	23.63	23.38	
20	16QAM	1	0	23.92	23.85	23.92	24.2
20	16QAM	1	49	23.75	23.81	23.55	
20	16QAM	1	99	23.73	23.70	23.32	
20	16QAM	50	0	22.57	22.56	22.50	23.2
20	16QAM	50	24	22.56	22.55	22.38	
20	16QAM	50	50	22.53	22.50	22.23	
20	16QAM	100	0	22.55	22.51	22.38	23.2
20	64QAM	1	0	22.82	22.88	22.82	
20	64QAM	1	49	22.68	22.83	22.49	
20	64QAM	1	99	22.68	22.75	22.21	22.2
20	64QAM	50	0	21.60	21.60	21.54	
20	64QAM	50	24	21.60	21.58	21.41	
20	64QAM	50	50	21.56	21.53	21.25	20.2
20	64QAM	100	0	21.58	21.52	21.40	
20	256QAM	1	0	19.26	19.29	19.29	
20	256QAM	1	49	19.35	19.43	19.42	20.2
20	256QAM	1	99	19.43	19.49	19.47	
20	256QAM	50	0	19.22	19.30	19.25	
20	256QAM	50	24	19.29	19.32	19.22	20.2
20	256QAM	50	50	19.23	19.33	19.26	
20	256QAM	100	0	19.30	19.33	19.30	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	24.51	24.54	24.44	
15	QPSK	1	37	24.50	24.41	24.30	25.2
15	QPSK	1	74	24.49	24.40	24.08	
15	QPSK	36	0	23.58	23.57	23.44	
15	QPSK	36	20	23.55	23.53	23.33	24.2
15	QPSK	36	39	23.56	23.51	23.23	
15	QPSK	75	0	23.57	23.53	23.36	
15	16QAM	1	0	23.87	23.87	23.85	24.2
15	16QAM	1	37	23.81	23.75	23.68	
15	16QAM	1	74	23.78	23.71	23.46	
15	16QAM	36	0	22.59	22.59	22.43	23.2
15	16QAM	36	20	22.56	22.57	22.33	
15	16QAM	36	39	22.53	22.54	22.22	
15	16QAM	75	0	22.60	22.57	22.39	23.2
15	64QAM	1	0	22.89	22.86	22.68	
15	64QAM	1	37	22.90	22.82	22.58	
15	64QAM	1	74	22.75	22.70	22.30	22.2
15	64QAM	36	0	21.62	21.59	21.46	
15	64QAM	36	20	21.59	21.57	21.37	
15	64QAM	36	39	21.59	21.59	21.27	20.2
15	64QAM	75	0	21.56	21.56	21.37	
15	256QAM	1	0	19.26	19.20	19.28	
15	256QAM	1	37	19.33	19.33	19.39	20.2
15	256QAM	1	74	19.43	19.42	19.37	
15	256QAM	36	0	19.16	19.28	19.16	
15	256QAM	36	20	19.29	19.30	19.15	20.2
15	256QAM	36	39	19.18	19.28	19.24	



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15	256QAM	75	0	19.20	19.29	19.22	Tune-up limit (dBm)
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	24.55	24.58	24.45	25.2
10	QPSK	1	25	24.40	24.35	24.15	
10	QPSK	1	49	24.47	24.40	24.11	
10	QPSK	25	0	23.55	23.60	23.43	24.2
10	QPSK	25	12	23.56	23.56	23.37	
10	QPSK	25	25	23.56	23.53	23.29	
10	QPSK	50	0	23.54	23.57	23.34	24.2
10	16QAM	1	0	23.88	23.83	23.82	
10	16QAM	1	25	23.89	23.78	23.63	
10	16QAM	1	49	23.78	23.77	23.50	23.2
10	16QAM	25	0	22.61	22.63	22.45	
10	16QAM	25	12	22.59	22.60	22.36	
10	16QAM	25	25	22.57	22.59	22.32	23.2
10	16QAM	50	0	22.56	22.56	22.35	
10	64QAM	1	0	22.81	22.82	22.69	
10	64QAM	1	25	22.76	22.69	22.44	23.2
10	64QAM	1	49	22.68	22.75	22.49	
10	64QAM	25	0	21.60	21.61	21.45	22.2
10	64QAM	25	12	21.58	21.59	21.37	
10	64QAM	25	25	21.58	21.57	21.31	
10	64QAM	50	0	21.59	21.61	21.38	20.2
10	256QAM	1	0	19.25	19.21	19.28	
10	256QAM	1	25	19.25	19.34	19.34	
10	256QAM	1	49	19.35	19.43	19.42	20.2
10	256QAM	25	0	19.17	19.21	19.16	
10	256QAM	25	12	19.22	19.26	19.17	
10	256QAM	25	25	19.21	19.31	19.24	20.2
10	256QAM	50	0	19.21	19.31	19.23	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	24.59	24.55	24.40	25.2
5	QPSK	1	12	24.59	24.55	24.35	
5	QPSK	1	24	24.59	24.55	24.31	
5	QPSK	12	0	23.58	23.64	23.39	24.2
5	QPSK	12	7	23.55	23.66	23.36	
5	QPSK	12	13	23.57	23.63	23.31	
5	QPSK	25	0	23.53	23.58	23.32	24.2
5	16QAM	1	0	23.92	23.93	23.73	
5	16QAM	1	12	23.88	23.88	23.63	
5	16QAM	1	24	23.90	23.87	23.62	23.2
5	16QAM	12	0	22.63	22.66	22.44	
5	16QAM	12	7	22.65	22.67	22.44	
5	16QAM	12	13	22.61	22.65	22.36	23.2
5	16QAM	25	0	22.57	22.62	22.34	
5	64QAM	1	0	22.72	22.68	22.61	
5	64QAM	1	12	22.72	22.65	22.54	22.2
5	64QAM	1	24	22.71	22.70	22.45	
5	64QAM	12	0	21.64	21.66	21.38	
5	64QAM	12	7	21.65	21.65	21.39	20.2
5	64QAM	12	13	21.60	21.63	21.34	
5	64QAM	25	0	21.59	21.62	21.35	
5	256QAM	1	0	19.22	19.23	19.29	20.2
5	256QAM	1	12	19.32	19.40	19.33	
5	256QAM	1	24	19.39	19.48	19.43	
5	256QAM	12	0	19.14	19.30	19.24	20.2
5	256QAM	12	7	19.28	19.24	19.14	
5	256QAM	12	13	19.21	19.27	19.17	
5	256QAM	25	0	19.29	19.24	19.25	20.2
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	Tune-up limit (dBm)



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3	QPSK	1	0	24.60	24.55	24.39	25.2
3	QPSK	1	8	24.48	24.54	24.20	
3	QPSK	1	14	24.56	24.61	24.22	
3	QPSK	8	0	23.55	23.62	23.28	24.2
3	QPSK	8	4	23.56	23.62	23.29	
3	QPSK	8	7	23.56	23.59	23.27	
3	QPSK	15	0	23.54	23.58	23.26	24.2
3	16QAM	1	0	23.90	23.99	23.66	
3	16QAM	1	8	23.77	23.82	23.50	
3	16QAM	1	14	23.84	23.92	23.55	23.2
3	16QAM	8	0	22.60	22.64	22.35	
3	16QAM	8	4	22.61	22.65	22.36	
3	16QAM	8	7	22.61	22.65	22.37	23.2
3	16QAM	15	0	22.58	22.63	22.34	
3	64QAM	1	0	22.71	22.78	22.51	
3	64QAM	1	8	22.64	22.72	22.46	23.2
3	64QAM	1	14	22.70	22.80	22.48	
3	64QAM	8	0	21.65	21.67	21.36	
3	64QAM	8	4	21.67	21.68	21.32	22.2
3	64QAM	8	7	21.64	21.66	21.32	
3	64QAM	15	0	21.62	21.62	21.32	
3	256QAM	1	0	19.19	19.20	19.29	20.2
3	256QAM	1	8	19.35	19.42	19.34	
3	256QAM	1	14	19.40	19.39	19.39	
3	256QAM	8	0	19.12	19.23	19.15	20.2
3	256QAM	8	4	19.20	19.25	19.13	
3	256QAM	8	7	19.17	19.33	19.18	
3	256QAM	15	0	19.24	19.26	19.27	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	24.52	24.61	24.24	25.2
1.4	QPSK	1	3	24.34	24.42	24.14	
1.4	QPSK	1	5	24.50	24.59	24.23	
1.4	QPSK	3	0	24.40	24.47	24.12	24.2
1.4	QPSK	3	1	24.48	24.51	24.25	
1.4	QPSK	3	3	24.48	24.56	24.19	
1.4	QPSK	6	0	23.45	23.52	23.20	24.2
1.4	16QAM	1	0	23.81	23.95	23.62	
1.4	16QAM	1	3	23.68	23.78	23.46	
1.4	16QAM	1	5	23.83	23.87	23.56	24.2
1.4	16QAM	3	0	23.61	23.67	23.39	
1.4	16QAM	3	1	23.59	23.57	23.40	
1.4	16QAM	3	3	23.60	23.61	23.34	23.2
1.4	16QAM	6	0	22.58	22.67	22.31	
1.4	64QAM	1	0	22.73	22.80	22.43	
1.4	64QAM	1	3	22.58	22.62	22.30	23.2
1.4	64QAM	1	5	22.72	22.68	22.43	
1.4	64QAM	3	0	22.58	22.61	22.30	
1.4	64QAM	3	1	22.65	22.66	22.27	22.2
1.4	64QAM	3	3	22.55	22.60	22.36	
1.4	64QAM	6	0	21.45	21.56	21.26	
1.4	256QAM	1	0	19.17	19.26	19.21	20.2
1.4	256QAM	1	3	19.27	19.40	19.39	
1.4	256QAM	1	5	19.36	19.48	19.38	
1.4	256QAM	3	0	19.20	19.22	19.16	20.2
1.4	256QAM	3	1	19.20	19.26	19.12	
1.4	256QAM	3	3	19.13	19.33	19.21	
1.4	256QAM	6	0	19.20	19.24	19.30	20.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	18.15	18.25	18.24	
20	QPSK	1	49	18.08	18.06	18.02	19.7
20	QPSK	1	99	18.07	18.00	17.96	
20	QPSK	50	0	18.21	18.25	18.22	
20	QPSK	50	24	18.17	18.18	18.22	19.7
20	QPSK	50	50	18.17	18.12	18.14	
20	QPSK	100	0	18.19	18.21	18.20	
20	16QAM	1	0	18.47	18.57	18.63	19.7
20	16QAM	1	49	18.32	18.38	18.26	
20	16QAM	1	99	18.34	18.40	18.24	
20	16QAM	50	0	18.19	18.25	18.28	19.7
20	16QAM	50	24	18.17	18.20	18.21	
20	16QAM	50	50	18.15	18.13	18.11	
20	16QAM	100	0	18.17	18.17	18.18	19.7
20	64QAM	1	0	18.32	18.46	18.47	
20	64QAM	1	49	18.23	18.35	18.23	
20	64QAM	1	99	18.25	18.29	18.13	19.7
20	64QAM	50	0	18.20	18.25	18.29	
20	64QAM	50	24	18.18	18.22	18.21	
20	64QAM	50	50	18.13	18.14	18.12	19.7
20	64QAM	100	0	18.18	18.17	18.18	
20	256QAM	1	0	18.13	18.10	18.18	
20	256QAM	1	49	18.06	18.07	18.07	19.7
20	256QAM	1	99	18.11	18.11	18.17	
20	256QAM	50	0	18.41	18.54	18.60	
20	256QAM	50	24	18.23	18.30	18.19	19.7
20	256QAM	50	50	18.44	18.47	18.54	
20	256QAM	100	0	18.24	18.32	18.16	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.08	18.18	18.25	
15	QPSK	1	37	18.03	17.99	17.92	19.7
15	QPSK	1	74	18.03	18.22	18.21	
15	QPSK	36	0	18.12	18.21	18.19	
15	QPSK	36	20	18.12	18.08	18.11	19.7
15	QPSK	36	39	18.13	18.01	18.06	
15	QPSK	75	0	18.08	18.06	18.13	
15	16QAM	1	0	18.40	18.56	18.62	19.7
15	16QAM	1	37	18.25	18.27	18.19	
15	16QAM	1	74	18.30	18.29	18.15	
15	16QAM	36	0	18.17	18.16	18.17	19.7
15	16QAM	36	20	18.06	18.18	18.20	
15	16QAM	36	39	18.10	18.11	18.01	
15	16QAM	75	0	18.12	18.14	18.07	19.7
15	64QAM	1	0	18.31	18.44	18.43	
15	64QAM	1	37	18.18	18.25	18.19	
15	64QAM	1	74	18.20	18.24	18.12	19.7
15	64QAM	36	0	18.13	18.23	18.21	
15	64QAM	36	20	18.17	18.11	18.17	
15	64QAM	36	39	18.12	18.06	18.02	19.7
15	64QAM	75	0	18.11	18.08	18.14	
15	256QAM	1	0	18.09	18.09	18.15	
15	256QAM	1	37	18.02	17.99	18.04	19.7
15	256QAM	1	74	18.10	18.02	18.14	
15	256QAM	36	0	18.35	18.46	18.57	
15	256QAM	36	20	18.19	18.20	18.13	19.7



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15	256QAM	36	39	18.33	18.43	18.49	
15	256QAM	75	0	18.15	18.27	18.15	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	18.14	18.15	18.22	19.7
10	QPSK	1	25	18.06	18.04	17.97	
10	QPSK	1	49	18.00	18.04	18.08	
10	QPSK	25	0	18.16	18.20	18.26	19.7
10	QPSK	25	12	18.07	18.10	18.20	
10	QPSK	25	25	18.09	18.09	18.06	
10	QPSK	50	0	18.08	18.08	18.12	
10	16QAM	1	0	18.36	18.47	18.61	19.7
10	16QAM	1	25	18.31	18.30	18.19	
10	16QAM	1	49	18.32	18.33	18.17	
10	16QAM	25	0	18.15	18.20	18.23	19.7
10	16QAM	25	12	18.12	18.12	18.15	
10	16QAM	25	25	18.13	18.02	18.05	
10	16QAM	50	0	18.07	18.07	18.17	
10	64QAM	1	0	18.21	18.35	18.45	19.7
10	64QAM	1	25	18.12	18.30	18.15	
10	64QAM	1	49	18.24	18.28	18.06	
10	64QAM	25	0	18.15	18.16	18.18	19.7
10	64QAM	25	12	18.14	18.20	18.12	
10	64QAM	25	25	18.12	18.13	18.01	
10	64QAM	50	0	18.08	18.12	18.17	
10	256QAM	1	0	18.06	18.07	18.17	19.7
10	256QAM	1	25	17.97	17.97	18.00	
10	256QAM	1	49	18.02	18.05	18.09	
10	256QAM	25	0	18.37	18.47	18.59	19.7
10	256QAM	25	12	18.12	18.23	18.18	
10	256QAM	25	25	18.36	18.41	18.50	
10	256QAM	50	0	18.14	18.30	18.12	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	18.12	18.14	18.26	19.7
5	QPSK	1	12	18.04	18.04	17.97	
5	QPSK	1	24	18.00	18.06	18.09	
5	QPSK	12	0	18.10	18.23	18.25	19.7
5	QPSK	12	7	18.08	18.15	18.20	
5	QPSK	12	13	18.15	18.05	18.05	
5	QPSK	25	0	18.09	18.09	18.11	
5	16QAM	1	0	18.38	18.51	18.58	19.7
5	16QAM	1	12	18.24	18.36	18.22	
5	16QAM	1	24	18.33	18.34	18.23	
5	16QAM	12	0	18.17	18.18	18.26	19.7
5	16QAM	12	7	18.12	18.14	18.19	
5	16QAM	12	13	18.13	18.04	18.03	
5	16QAM	25	0	18.08	18.07	18.15	
5	64QAM	1	0	18.21	18.44	18.43	19.7
5	64QAM	1	12	18.16	18.28	18.15	
5	64QAM	1	24	18.16	18.27	18.10	
5	64QAM	12	0	18.13	18.21	18.23	19.7
5	64QAM	12	7	18.11	18.18	18.12	
5	64QAM	12	13	18.02	18.06	18.10	
5	64QAM	25	0	18.13	18.13	18.13	
5	256QAM	1	0	18.10	18.00	18.09	19.7
5	256QAM	1	12	17.97	17.96	17.97	
5	256QAM	1	24	18.06	18.04	18.12	
5	256QAM	12	0	18.40	18.44	18.55	19.7
5	256QAM	12	7	18.16	18.23	18.15	
5	256QAM	12	13	18.37	18.41	18.49	
5	256QAM	25	0	18.13	18.31	18.09	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	18.08	18.16	18.21	19.7
3	QPSK	1	8	18.02	18.05	17.92	
3	QPSK	1	14	17.98	18.07	18.05	
3	QPSK	8	0	18.11	18.20	18.23	19.7
3	QPSK	8	4	18.06	18.16	18.20	
3	QPSK	8	7	18.16	18.05	18.04	
3	QPSK	15	0	18.15	18.11	18.13	
3	16QAM	1	0	18.38	18.53	18.53	19.7
3	16QAM	1	8	18.22	18.30	18.23	
3	16QAM	1	14	18.27	18.39	18.13	
3	16QAM	8	0	18.11	18.15	18.27	19.7
3	16QAM	8	4	18.13	18.13	18.12	
3	16QAM	8	7	18.14	18.06	18.10	
3	16QAM	15	0	18.12	18.16	18.08	
3	64QAM	1	0	18.30	18.41	18.37	19.7
3	64QAM	1	8	18.12	18.29	18.14	
3	64QAM	1	14	18.23	18.28	18.11	
3	64QAM	8	0	18.13	18.21	18.24	19.7
3	64QAM	8	4	18.09	18.13	18.14	
3	64QAM	8	7	18.12	18.12	18.08	
3	64QAM	15	0	18.10	18.15	18.10	
3	256QAM	1	0	18.03	18.01	18.15	19.7
3	256QAM	1	8	18.03	17.97	17.97	
3	256QAM	1	14	18.00	18.09	18.13	
3	256QAM	8	0	18.30	18.50	18.49	19.7
3	256QAM	8	4	18.18	18.24	18.12	
3	256QAM	8	7	18.37	18.36	18.44	
3	256QAM	15	0	18.16	18.26	18.12	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.04	18.18	18.16	19.7
1.4	QPSK	1	3	18.07	17.95	17.99	
1.4	QPSK	1	5	18.06	18.07	18.05	
1.4	QPSK	3	0	18.13	18.23	18.21	
1.4	QPSK	3	1	18.09	18.17	18.13	
1.4	QPSK	3	3	18.12	18.09	18.04	
1.4	QPSK	6	0	18.08	18.08	18.14	19.7
1.4	16QAM	1	0	18.43	18.56	18.61	19.7
1.4	16QAM	1	3	18.22	18.33	18.22	
1.4	16QAM	1	5	18.26	18.29	18.13	
1.4	16QAM	3	0	18.12	18.14	18.19	
1.4	16QAM	3	1	18.10	18.18	18.19	
1.4	16QAM	3	3	18.06	18.08	18.02	
1.4	16QAM	6	0	18.13	18.13	18.17	19.7
1.4	64QAM	1	0	18.31	18.40	18.42	19.7
1.4	64QAM	1	3	18.19	18.27	18.16	
1.4	64QAM	1	5	18.16	18.19	18.03	
1.4	64QAM	3	0	18.12	18.24	18.26	
1.4	64QAM	3	1	18.13	18.11	18.18	
1.4	64QAM	3	3	18.11	18.03	18.09	
1.4	64QAM	6	0	18.13	18.08	18.15	19.7
1.4	256QAM	1	0	18.11	18.07	18.15	19.7
1.4	256QAM	1	3	17.95	17.99	18.03	
1.4	256QAM	1	5	18.05	18.04	18.07	
1.4	256QAM	3	0	18.37	18.46	18.52	
1.4	256QAM	3	1	18.12	18.19	18.15	
1.4	256QAM	3	3	18.35	18.37	18.47	
1.4	256QAM	6	0	18.13	18.22	18.08	19.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.61	24.64	24.62	
20	QPSK	1	49	24.60	24.58	24.45	25.2
20	QPSK	1	99	24.52	24.38	24.07	
20	QPSK	50	0	23.60	23.61	23.51	
20	QPSK	50	24	23.59	23.53	23.39	24.2
20	QPSK	50	50	23.58	23.46	23.23	
20	QPSK	100	0	23.61	23.63	23.38	
20	16QAM	1	0	23.92	23.85	23.92	24.2
20	16QAM	1	49	23.75	23.81	23.55	
20	16QAM	1	99	23.73	23.70	23.32	
20	16QAM	50	0	22.57	22.56	22.50	23.2
20	16QAM	50	24	22.56	22.55	22.38	
20	16QAM	50	50	22.53	22.50	22.23	
20	16QAM	100	0	22.55	22.51	22.38	23.2
20	64QAM	1	0	22.82	22.88	22.82	
20	64QAM	1	49	22.68	22.83	22.49	
20	64QAM	1	99	22.68	22.75	22.21	22.2
20	64QAM	50	0	21.60	21.60	21.54	
20	64QAM	50	24	21.60	21.58	21.41	
20	64QAM	50	50	21.56	21.53	21.25	20.2
20	64QAM	100	0	21.58	21.52	21.40	
20	256QAM	1	0	19.26	19.29	19.29	
20	256QAM	1	49	19.35	19.43	19.42	20.2
20	256QAM	1	99	19.43	19.49	19.47	
20	256QAM	50	0	19.22	19.30	19.25	
20	256QAM	50	24	19.29	19.32	19.22	20.2
20	256QAM	50	50	19.23	19.33	19.26	
20	256QAM	100	0	19.30	19.33	19.30	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	24.51	24.54	24.44	
15	QPSK	1	37	24.50	24.41	24.30	25.2
15	QPSK	1	74	24.49	24.40	24.08	
15	QPSK	36	0	23.58	23.57	23.44	
15	QPSK	36	20	23.55	23.53	23.33	24.2
15	QPSK	36	39	23.56	23.51	23.23	
15	QPSK	75	0	23.57	23.53	23.36	
15	16QAM	1	0	23.87	23.87	23.85	24.2
15	16QAM	1	37	23.81	23.75	23.68	
15	16QAM	1	74	23.78	23.71	23.46	
15	16QAM	36	0	22.59	22.59	22.43	23.2
15	16QAM	36	20	22.56	22.57	22.33	
15	16QAM	36	39	22.53	22.54	22.22	
15	16QAM	75	0	22.60	22.57	22.39	23.2
15	64QAM	1	0	22.89	22.86	22.68	
15	64QAM	1	37	22.90	22.82	22.58	
15	64QAM	1	74	22.75	22.70	22.30	22.2
15	64QAM	36	0	21.62	21.59	21.46	
15	64QAM	36	20	21.59	21.57	21.37	
15	64QAM	36	39	21.59	21.59	21.27	20.2
15	64QAM	75	0	21.56	21.56	21.37	
15	256QAM	1	0	19.26	19.20	19.28	
15	256QAM	1	37	19.33	19.33	19.39	20.2
15	256QAM	1	74	19.43	19.42	19.37	
15	256QAM	36	0	19.16	19.28	19.16	
15	256QAM	36	20	19.29	19.30	19.15	20.2
15	256QAM	36	39	19.18	19.28	19.24	



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15	256QAM	75	0	19.20	19.29	19.22	Tune-up limit (dBm)
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	24.55	24.58	24.45	25.2
10	QPSK	1	25	24.40	24.35	24.15	
10	QPSK	1	49	24.47	24.40	24.11	
10	QPSK	25	0	23.55	23.60	23.43	24.2
10	QPSK	25	12	23.56	23.56	23.37	
10	QPSK	25	25	23.56	23.53	23.29	
10	QPSK	50	0	23.54	23.57	23.34	24.2
10	16QAM	1	0	23.88	23.83	23.82	
10	16QAM	1	25	23.89	23.78	23.63	
10	16QAM	1	49	23.78	23.77	23.50	23.2
10	16QAM	25	0	22.61	22.63	22.45	
10	16QAM	25	12	22.59	22.60	22.36	
10	16QAM	25	25	22.57	22.59	22.32	23.2
10	16QAM	50	0	22.56	22.56	22.35	
10	64QAM	1	0	22.81	22.82	22.69	
10	64QAM	1	25	22.76	22.69	22.44	23.2
10	64QAM	1	49	22.68	22.75	22.49	
10	64QAM	25	0	21.60	21.61	21.45	
10	64QAM	25	12	21.58	21.59	21.37	22.2
10	64QAM	25	25	21.58	21.57	21.31	
10	64QAM	50	0	21.59	21.61	21.38	
10	256QAM	1	0	19.25	19.21	19.28	20.2
10	256QAM	1	25	19.25	19.34	19.34	
10	256QAM	1	49	19.35	19.43	19.42	
10	256QAM	25	0	19.17	19.21	19.16	20.2
10	256QAM	25	12	19.22	19.26	19.17	
10	256QAM	25	25	19.21	19.31	19.24	
10	256QAM	50	0	19.21	19.31	19.23	Tune-up limit (dBm)
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	24.59	24.55	24.40	25.2
5	QPSK	1	12	24.59	24.55	24.35	
5	QPSK	1	24	24.59	24.55	24.31	
5	QPSK	12	0	23.58	23.64	23.39	24.2
5	QPSK	12	7	23.55	23.66	23.36	
5	QPSK	12	13	23.57	23.63	23.31	
5	QPSK	25	0	23.53	23.58	23.32	24.2
5	16QAM	1	0	23.92	23.93	23.73	
5	16QAM	1	12	23.88	23.88	23.63	
5	16QAM	1	24	23.90	23.87	23.62	23.2
5	16QAM	12	0	22.63	22.66	22.44	
5	16QAM	12	7	22.65	22.67	22.44	
5	16QAM	12	13	22.61	22.65	22.36	23.2
5	16QAM	25	0	22.57	22.62	22.34	
5	64QAM	1	0	22.72	22.68	22.61	
5	64QAM	1	12	22.72	22.65	22.54	22.2
5	64QAM	1	24	22.71	22.70	22.45	
5	64QAM	12	0	21.64	21.66	21.38	
5	64QAM	12	7	21.65	21.65	21.39	20.2
5	64QAM	12	13	21.60	21.63	21.34	
5	64QAM	25	0	21.59	21.62	21.35	
5	256QAM	1	0	19.22	19.23	19.29	20.2
5	256QAM	1	12	19.32	19.40	19.33	
5	256QAM	1	24	19.39	19.48	19.43	
5	256QAM	12	0	19.14	19.30	19.24	20.2
5	256QAM	12	7	19.28	19.24	19.14	
5	256QAM	12	13	19.21	19.27	19.17	
5	256QAM	25	0	19.29	19.24	19.25	Tune-up limit (dBm)
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	



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3	QPSK	1	0	24.60	24.55	24.39	25.2
3	QPSK	1	8	24.48	24.54	24.20	
3	QPSK	1	14	24.56	24.61	24.22	
3	QPSK	8	0	23.55	23.62	23.28	24.2
3	QPSK	8	4	23.56	23.62	23.29	
3	QPSK	8	7	23.56	23.59	23.27	
3	QPSK	15	0	23.54	23.58	23.26	24.2
3	16QAM	1	0	23.90	23.99	23.66	
3	16QAM	1	8	23.77	23.82	23.50	
3	16QAM	1	14	23.84	23.92	23.55	23.2
3	16QAM	8	0	22.60	22.64	22.35	
3	16QAM	8	4	22.61	22.65	22.36	
3	16QAM	8	7	22.61	22.65	22.37	23.2
3	16QAM	15	0	22.58	22.63	22.34	
3	64QAM	1	0	22.71	22.78	22.51	
3	64QAM	1	8	22.64	22.72	22.46	23.2
3	64QAM	1	14	22.70	22.80	22.48	
3	64QAM	8	0	21.65	21.67	21.36	
3	64QAM	8	4	21.67	21.68	21.32	22.2
3	64QAM	8	7	21.64	21.66	21.32	
3	64QAM	15	0	21.62	21.62	21.32	
3	256QAM	1	0	19.19	19.20	19.29	20.2
3	256QAM	1	8	19.35	19.42	19.34	
3	256QAM	1	14	19.40	19.39	19.39	
3	256QAM	8	0	19.12	19.23	19.15	20.2
3	256QAM	8	4	19.20	19.25	19.13	
3	256QAM	8	7	19.17	19.33	19.18	
3	256QAM	15	0	19.24	19.26	19.27	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	24.52	24.61	24.24	25.2
1.4	QPSK	1	3	24.34	24.42	24.14	
1.4	QPSK	1	5	24.50	24.59	24.23	
1.4	QPSK	3	0	24.40	24.47	24.12	24.2
1.4	QPSK	3	1	24.48	24.51	24.25	
1.4	QPSK	3	3	24.48	24.56	24.19	
1.4	QPSK	6	0	23.45	23.52	23.20	24.2
1.4	16QAM	1	0	23.81	23.95	23.62	
1.4	16QAM	1	3	23.68	23.78	23.46	
1.4	16QAM	1	5	23.83	23.87	23.56	24.2
1.4	16QAM	3	0	23.61	23.67	23.39	
1.4	16QAM	3	1	23.59	23.57	23.40	
1.4	16QAM	3	3	23.60	23.61	23.34	23.2
1.4	16QAM	6	0	22.58	22.67	22.31	
1.4	64QAM	1	0	22.73	22.80	22.43	
1.4	64QAM	1	3	22.58	22.62	22.30	23.2
1.4	64QAM	1	5	22.72	22.68	22.43	
1.4	64QAM	3	0	22.58	22.61	22.30	
1.4	64QAM	3	1	22.65	22.66	22.27	22.2
1.4	64QAM	3	3	22.55	22.60	22.36	
1.4	64QAM	6	0	21.45	21.56	21.26	
1.4	256QAM	1	0	19.17	19.26	19.21	20.2
1.4	256QAM	1	3	19.27	19.40	19.39	
1.4	256QAM	1	5	19.36	19.48	19.38	
1.4	256QAM	3	0	19.20	19.22	19.16	20.2
1.4	256QAM	3	1	19.20	19.26	19.12	
1.4	256QAM	3	3	19.13	19.33	19.21	
1.4	256QAM	6	0	19.20	19.24	19.30	20.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	18.15	18.25	18.24	
20	QPSK	1	49	18.08	18.06	18.02	18.5
20	QPSK	1	99	18.07	18.00	17.96	
20	QPSK	50	0	18.21	18.25	18.22	
20	QPSK	50	24	18.17	18.18	18.22	18.5
20	QPSK	50	50	18.17	18.12	18.14	
20	QPSK	100	0	18.19	18.21	18.20	
20	16QAM	1	0	18.47	18.47	18.43	18.5
20	16QAM	1	49	18.32	18.38	18.26	
20	16QAM	1	99	18.34	18.40	18.24	
20	16QAM	50	0	18.19	18.25	18.28	18.5
20	16QAM	50	24	18.17	18.20	18.21	
20	16QAM	50	50	18.15	18.13	18.11	
20	16QAM	100	0	18.17	18.17	18.18	18.5
20	64QAM	1	0	18.32	18.46	18.47	
20	64QAM	1	49	18.23	18.35	18.23	
20	64QAM	1	99	18.25	18.29	18.13	18.5
20	64QAM	50	0	18.20	18.25	18.29	
20	64QAM	50	24	18.18	18.22	18.21	
20	64QAM	50	50	18.13	18.14	18.12	18.5
20	64QAM	100	0	18.18	18.17	18.18	
20	256QAM	1	0	18.13	18.10	18.18	
20	256QAM	1	49	18.06	18.07	18.07	18.5
20	256QAM	1	99	18.11	18.11	18.17	
20	256QAM	50	0	18.41	18.44	18.50	
20	256QAM	50	24	18.23	18.30	18.19	18.5
20	256QAM	50	50	18.44	18.47	18.44	
20	256QAM	100	0	18.24	18.32	18.16	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.08	18.18	18.25	
15	QPSK	1	37	18.03	17.99	17.92	18.5
15	QPSK	1	74	18.03	18.22	18.21	
15	QPSK	36	0	18.12	18.21	18.19	
15	QPSK	36	20	18.12	18.08	18.11	18.5
15	QPSK	36	39	18.13	18.01	18.06	
15	QPSK	75	0	18.08	18.06	18.13	
15	16QAM	1	0	18.40	18.46	18.42	18.5
15	16QAM	1	37	18.25	18.27	18.19	
15	16QAM	1	74	18.30	18.29	18.15	
15	16QAM	36	0	18.17	18.16	18.17	18.5
15	16QAM	36	20	18.06	18.18	18.20	
15	16QAM	36	39	18.10	18.11	18.01	
15	16QAM	75	0	18.12	18.14	18.07	18.5
15	64QAM	1	0	18.31	18.44	18.43	
15	64QAM	1	37	18.18	18.25	18.19	
15	64QAM	1	74	18.20	18.24	18.12	18.5
15	64QAM	36	0	18.13	18.23	18.21	
15	64QAM	36	20	18.17	18.11	18.17	
15	64QAM	36	39	18.12	18.06	18.02	18.5
15	64QAM	75	0	18.11	18.08	18.14	
15	256QAM	1	0	18.09	18.09	18.15	
15	256QAM	1	37	18.02	17.99	18.04	18.5
15	256QAM	1	74	18.10	18.02	18.14	
15	256QAM	36	0	18.35	18.46	18.47	
15	256QAM	36	20	18.19	18.20	18.13	18.5



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15	256QAM	36	39	18.33	18.43	18.49	
15	256QAM	75	0	18.15	18.27	18.15	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	18.14	18.15	18.22	18.5
10	QPSK	1	25	18.06	18.04	17.97	
10	QPSK	1	49	18.00	18.04	18.08	
10	QPSK	25	0	18.16	18.20	18.26	18.5
10	QPSK	25	12	18.07	18.10	18.20	
10	QPSK	25	25	18.09	18.09	18.06	
10	QPSK	50	0	18.08	18.08	18.12	
10	16QAM	1	0	18.36	18.47	18.41	18.5
10	16QAM	1	25	18.31	18.30	18.19	
10	16QAM	1	49	18.32	18.33	18.17	
10	16QAM	25	0	18.15	18.20	18.23	18.5
10	16QAM	25	12	18.12	18.12	18.15	
10	16QAM	25	25	18.13	18.02	18.05	
10	16QAM	50	0	18.07	18.07	18.17	
10	64QAM	1	0	18.21	18.35	18.45	18.5
10	64QAM	1	25	18.12	18.30	18.15	
10	64QAM	1	49	18.24	18.28	18.06	
10	64QAM	25	0	18.15	18.16	18.18	18.5
10	64QAM	25	12	18.14	18.20	18.12	
10	64QAM	25	25	18.12	18.13	18.01	
10	64QAM	50	0	18.08	18.12	18.17	
10	256QAM	1	0	18.06	18.07	18.17	18.5
10	256QAM	1	25	17.97	17.97	18.00	
10	256QAM	1	49	18.02	18.05	18.09	
10	256QAM	25	0	18.37	18.47	18.49	18.5
10	256QAM	25	12	18.12	18.23	18.18	
10	256QAM	25	25	18.36	18.41	18.50	
10	256QAM	50	0	18.14	18.30	18.12	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	18.12	18.14	18.26	18.5
5	QPSK	1	12	18.04	18.04	17.97	
5	QPSK	1	24	18.00	18.06	18.09	
5	QPSK	12	0	18.10	18.23	18.25	18.5
5	QPSK	12	7	18.08	18.15	18.20	
5	QPSK	12	13	18.15	18.05	18.05	
5	QPSK	25	0	18.09	18.09	18.11	
5	16QAM	1	0	18.38	18.41	18.48	18.5
5	16QAM	1	12	18.24	18.36	18.22	
5	16QAM	1	24	18.33	18.34	18.23	
5	16QAM	12	0	18.17	18.18	18.26	18.5
5	16QAM	12	7	18.12	18.14	18.19	
5	16QAM	12	13	18.13	18.04	18.03	
5	16QAM	25	0	18.08	18.07	18.15	
5	64QAM	1	0	18.21	18.44	18.43	18.5
5	64QAM	1	12	18.16	18.28	18.15	
5	64QAM	1	24	18.16	18.27	18.10	
5	64QAM	12	0	18.13	18.21	18.23	18.5
5	64QAM	12	7	18.11	18.18	18.12	
5	64QAM	12	13	18.02	18.06	18.10	
5	64QAM	25	0	18.13	18.13	18.13	
5	256QAM	1	0	18.10	18.00	18.09	18.5
5	256QAM	1	12	17.97	17.96	17.97	
5	256QAM	1	24	18.06	18.04	18.12	
5	256QAM	12	0	18.40	18.44	18.45	18.5
5	256QAM	12	7	18.16	18.23	18.15	
5	256QAM	12	13	18.37	18.41	18.49	
5	256QAM	25	0	18.13	18.31	18.09	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	18.08	18.16	18.21	18.5
3	QPSK	1	8	18.02	18.05	17.92	
3	QPSK	1	14	17.98	18.07	18.05	
3	QPSK	8	0	18.11	18.20	18.23	18.5
3	QPSK	8	4	18.06	18.16	18.20	
3	QPSK	8	7	18.16	18.05	18.04	
3	QPSK	15	0	18.15	18.11	18.13	
3	16QAM	1	0	18.38	18.43	18.43	18.5
3	16QAM	1	8	18.22	18.30	18.23	
3	16QAM	1	14	18.27	18.39	18.13	
3	16QAM	8	0	18.11	18.15	18.27	18.5
3	16QAM	8	4	18.13	18.13	18.12	
3	16QAM	8	7	18.14	18.06	18.10	
3	16QAM	15	0	18.12	18.16	18.08	
3	64QAM	1	0	18.30	18.41	18.37	18.5
3	64QAM	1	8	18.12	18.29	18.14	
3	64QAM	1	14	18.23	18.28	18.11	
3	64QAM	8	0	18.13	18.21	18.24	18.5
3	64QAM	8	4	18.09	18.13	18.14	
3	64QAM	8	7	18.12	18.12	18.08	
3	64QAM	15	0	18.10	18.15	18.10	
3	256QAM	1	0	18.03	18.01	18.15	18.5
3	256QAM	1	8	18.03	17.97	17.97	
3	256QAM	1	14	18.00	18.09	18.13	
3	256QAM	8	0	18.30	18.50	18.49	18.5
3	256QAM	8	4	18.18	18.24	18.12	
3	256QAM	8	7	18.37	18.36	18.44	
3	256QAM	15	0	18.16	18.26	18.12	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.04	18.18	18.16	18.5
1.4	QPSK	1	3	18.07	17.95	17.99	
1.4	QPSK	1	5	18.06	18.07	18.05	
1.4	QPSK	3	0	18.13	18.23	18.21	
1.4	QPSK	3	1	18.09	18.17	18.13	
1.4	QPSK	3	3	18.12	18.09	18.04	
1.4	QPSK	6	0	18.08	18.08	18.14	18.5
1.4	16QAM	1	0	18.43	18.46	18.41	18.5
1.4	16QAM	1	3	18.22	18.33	18.22	
1.4	16QAM	1	5	18.26	18.29	18.13	
1.4	16QAM	3	0	18.12	18.14	18.19	
1.4	16QAM	3	1	18.10	18.18	18.19	
1.4	16QAM	3	3	18.06	18.08	18.02	
1.4	16QAM	6	0	18.13	18.13	18.17	18.5
1.4	64QAM	1	0	18.31	18.40	18.42	18.5
1.4	64QAM	1	3	18.19	18.27	18.16	
1.4	64QAM	1	5	18.16	18.19	18.03	
1.4	64QAM	3	0	18.12	18.24	18.26	
1.4	64QAM	3	1	18.13	18.11	18.18	
1.4	64QAM	3	3	18.11	18.03	18.09	
1.4	64QAM	6	0	18.13	18.08	18.15	18.5
1.4	256QAM	1	0	18.11	18.07	18.15	18.5
1.4	256QAM	1	3	17.95	17.99	18.03	
1.4	256QAM	1	5	18.05	18.04	18.07	
1.4	256QAM	3	0	18.37	18.46	18.42	
1.4	256QAM	3	1	18.12	18.19	18.15	
1.4	256QAM	3	3	18.35	18.37	18.47	
1.4	256QAM	6	0	18.13	18.22	18.08	18.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.14	23.17	23.10	
20	QPSK	1	49	23.10	23.04	22.89	23.4
20	QPSK	1	99	23.12	22.97	22.65	
20	QPSK	50	0	23.21	23.22	23.08	
20	QPSK	50	24	23.21	23.14	23.00	23.4
20	QPSK	50	50	23.20	23.07	22.85	
20	QPSK	100	0	23.23	23.24	22.99	
20	16QAM	1	0	23.39	23.34	23.23	23.4
20	16QAM	1	49	23.19	23.17	22.84	
20	16QAM	1	99	23.25	23.10	22.77	
20	16QAM	50	0	22.40	22.36	22.27	23.2
20	16QAM	50	24	22.40	22.34	22.17	
20	16QAM	50	50	22.39	22.30	22.03	
20	16QAM	100	0	22.41	22.31	22.14	23.2
20	64QAM	1	0	22.73	22.59	22.63	
20	64QAM	1	49	22.63	22.53	22.33	
20	64QAM	1	99	22.61	22.44	22.10	22.2
20	64QAM	50	0	21.47	21.38	21.31	
20	64QAM	50	24	21.44	21.38	21.20	
20	64QAM	50	50	21.39	21.34	21.07	20.2
20	64QAM	100	0	21.41	21.34	21.19	
20	256QAM	1	0	19.16	19.26	19.25	
20	256QAM	1	49	19.26	19.33	19.39	20.2
20	256QAM	1	99	19.39	19.48	19.42	
20	256QAM	50	0	19.20	19.24	19.21	
20	256QAM	50	24	19.27	19.22	19.17	20.2
20	256QAM	50	50	19.16	19.25	19.23	
20	256QAM	100	0	19.19	19.31	19.27	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.09	23.09	23.03	
15	QPSK	1	37	23.05	23.02	22.81	23.4
15	QPSK	1	74	23.09	22.93	22.62	
15	QPSK	36	0	23.19	23.13	23.00	
15	QPSK	36	20	23.16	23.11	22.89	23.4
15	QPSK	36	39	23.15	22.96	22.81	
15	QPSK	75	0	23.15	23.22	22.88	
15	16QAM	1	0	23.28	23.27	23.15	23.4
15	16QAM	1	37	23.14	23.12	22.80	
15	16QAM	1	74	23.20	23.04	22.71	
15	16QAM	36	0	22.34	22.34	22.18	23.2
15	16QAM	36	20	22.36	22.32	22.12	
15	16QAM	36	39	22.38	22.25	21.92	
15	16QAM	75	0	22.36	22.27	22.06	23.2
15	64QAM	1	0	22.63	22.56	22.62	
15	64QAM	1	37	22.52	22.49	22.27	
15	64QAM	1	74	22.54	22.34	22.09	22.2
15	64QAM	36	0	21.37	21.37	21.20	
15	64QAM	36	20	21.36	21.30	21.10	
15	64QAM	36	39	21.32	21.23	20.99	20.2
15	64QAM	75	0	21.33	21.33	21.18	
15	256QAM	1	0	19.07	19.24	19.22	
15	256QAM	1	37	19.17	19.32	19.37	20.2
15	256QAM	1	74	19.31	19.44	19.35	
15	256QAM	36	0	19.14	19.15	19.20	
15	256QAM	36	20	19.21	19.11	19.09	20.2
15	256QAM	36	39	19.05	19.17	19.15	



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15	256QAM	75	0	19.15	19.21	19.25	Tune-up limit (dBm)
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.03	23.10	23.09	23.4
10	QPSK	1	25	23.07	22.94	22.81	
10	QPSK	1	49	23.04	22.94	22.59	
10	QPSK	25	0	23.10	23.20	23.00	23.4
10	QPSK	25	12	23.14	23.07	22.93	
10	QPSK	25	25	23.12	23.05	22.80	
10	QPSK	50	0	23.16	23.19	22.95	23.4
10	16QAM	1	0	23.31	23.23	23.16	
10	16QAM	1	25	23.08	23.14	22.77	
10	16QAM	1	49	23.17	23.09	22.76	23.2
10	16QAM	25	0	22.30	22.32	22.25	
10	16QAM	25	12	22.32	22.30	22.10	
10	16QAM	25	25	22.29	22.23	22.00	23.2
10	16QAM	50	0	22.39	22.29	22.11	
10	64QAM	1	0	22.64	22.50	22.54	
10	64QAM	1	25	22.57	22.47	22.32	23.2
10	64QAM	1	49	22.53	22.38	22.04	
10	64QAM	25	0	21.44	21.27	21.29	
10	64QAM	25	12	21.34	21.33	21.14	22.2
10	64QAM	25	25	21.37	21.26	21.06	
10	64QAM	50	0	21.38	21.26	21.14	
10	256QAM	1	0	19.07	19.22	19.21	20.2
10	256QAM	1	25	19.22	19.22	19.28	
10	256QAM	1	49	19.33	19.40	19.39	
10	256QAM	25	0	19.17	19.19	19.15	20.2
10	256QAM	25	12	19.23	19.17	19.07	
10	256QAM	25	25	19.10	19.19	19.14	
10	256QAM	50	0	19.11	19.25	19.22	Tune-up limit (dBm)
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.03	23.10	22.99	23.4
5	QPSK	1	12	23.01	22.94	22.78	
5	QPSK	1	24	23.03	22.92	22.56	
5	QPSK	12	0	23.11	23.19	23.02	23.4
5	QPSK	12	7	23.10	23.07	22.96	
5	QPSK	12	13	23.09	22.97	22.84	
5	QPSK	25	0	23.21	23.13	22.92	23.4
5	16QAM	1	0	23.28	23.29	23.20	
5	16QAM	1	12	23.10	23.10	22.78	
5	16QAM	1	24	23.22	23.02	22.71	23.2
5	16QAM	12	0	22.30	22.27	22.26	
5	16QAM	12	7	22.29	22.31	22.12	
5	16QAM	12	13	22.33	22.20	22.02	23.2
5	16QAM	25	0	22.36	22.30	22.12	
5	64QAM	1	0	22.69	22.50	22.58	
5	64QAM	1	12	22.56	22.48	22.32	22.2
5	64QAM	1	24	22.59	22.43	22.08	
5	64QAM	12	0	21.45	21.36	21.29	
5	64QAM	12	7	21.37	21.32	21.11	20.2
5	64QAM	12	13	21.37	21.31	21.03	
5	64QAM	25	0	21.36	21.23	21.16	
5	256QAM	1	0	19.05	19.23	19.19	20.2
5	256QAM	1	12	19.16	19.22	19.34	
5	256QAM	1	24	19.35	19.44	19.36	
5	256QAM	12	0	19.17	19.16	19.11	20.2
5	256QAM	12	7	19.17	19.17	19.15	
5	256QAM	12	13	19.14	19.20	19.19	
5	256QAM	25	0	19.09	19.23	19.21	Tune-up limit (dBm)
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	



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3	QPSK	1	0	23.05	23.15	23.00	23.4
3	QPSK	1	8	22.99	23.01	22.79	
3	QPSK	1	14	23.06	22.90	22.54	
3	QPSK	8	0	23.11	23.13	23.03	23.4
3	QPSK	8	4	23.18	23.03	22.98	
3	QPSK	8	7	23.11	23.01	22.76	
3	QPSK	15	0	23.13	23.21	22.95	
3	16QAM	1	0	23.32	23.23	23.22	23.4
3	16QAM	1	8	23.18	23.06	22.80	
3	16QAM	1	14	23.15	23.06	22.69	
3	16QAM	8	0	22.36	22.31	22.22	23.2
3	16QAM	8	4	22.39	22.30	22.14	
3	16QAM	8	7	22.38	22.28	21.93	
3	16QAM	15	0	22.40	22.24	22.08	
3	64QAM	1	0	22.62	22.58	22.61	23.2
3	64QAM	1	8	22.61	22.43	22.28	
3	64QAM	1	14	22.52	22.35	22.01	
3	64QAM	8	0	21.46	21.33	21.27	22.2
3	64QAM	8	4	21.33	21.35	21.17	
3	64QAM	8	7	21.34	21.30	21.01	
3	64QAM	15	0	21.31	21.25	21.15	
3	256QAM	1	0	19.11	19.23	19.20	20.2
3	256QAM	1	8	19.15	19.25	19.32	
3	256QAM	1	14	19.33	19.40	19.40	
3	256QAM	8	0	19.10	19.19	19.20	20.2
3	256QAM	8	4	19.16	19.14	19.10	
3	256QAM	8	7	19.09	19.24	19.22	
3	256QAM	15	0	19.08	19.25	19.21	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.10	23.16	23.09	23.4
1.4	QPSK	1	3	23.02	22.94	22.83	
1.4	QPSK	1	5	23.06	22.93	22.63	
1.4	QPSK	3	0	23.18	23.16	23.01	
1.4	QPSK	3	1	23.11	23.13	22.96	
1.4	QPSK	3	3	23.11	23.03	22.82	
1.4	QPSK	6	0	23.22	23.21	22.96	23.4
1.4	16QAM	1	0	23.29	23.23	23.16	23.4
1.4	16QAM	1	3	23.12	23.08	22.76	
1.4	16QAM	1	5	23.21	22.99	22.76	
1.4	16QAM	3	0	22.39	22.28	22.25	
1.4	16QAM	3	1	22.37	22.32	22.14	
1.4	16QAM	3	3	22.36	22.28	22.30	
1.4	16QAM	6	0	22.31	22.24	22.06	23.2
1.4	64QAM	1	0	22.64	22.58	22.58	23.2
1.4	64QAM	1	3	22.54	22.47	22.27	
1.4	64QAM	1	5	22.60	22.37	22.04	
1.4	64QAM	3	0	22.37	22.28	22.22	
1.4	64QAM	3	1	22.43	22.32	22.12	
1.4	64QAM	3	3	22.35	22.31	22.01	
1.4	64QAM	6	0	21.36	21.31	21.08	22.2
1.4	256QAM	1	0	19.15	19.25	19.17	20.2
1.4	256QAM	1	3	19.19	19.24	19.35	
1.4	256QAM	1	5	19.38	19.43	19.34	
1.4	256QAM	3	0	19.14	19.15	19.13	
1.4	256QAM	3	1	19.25	19.15	19.13	
1.4	256QAM	3	3	19.11	19.20	19.18	
1.4	256QAM	6	0	19.08	19.24	19.24	20.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.35	22.45	22.34	
20	QPSK	1	49	22.30	22.32	22.29	23.1
20	QPSK	1	99	22.11	22.16	22.14	
20	QPSK	50	0	22.09	22.18	22.13	
20	QPSK	50	24	22.04	22.02	22.03	23.1
20	QPSK	50	50	22.00	21.94	21.93	
20	QPSK	100	0	22.05	22.00	22.04	
20	16QAM	1	0	22.36	22.37	22.36	23.1
20	16QAM	1	49	22.37	22.32	22.34	
20	16QAM	1	99	22.21	22.09	22.13	
20	16QAM	50	0	22.08	22.08	22.09	23.1
20	16QAM	50	24	22.06	22.03	22.02	
20	16QAM	50	50	21.99	21.94	21.92	
20	16QAM	100	0	22.03	21.99	22.00	23.1
20	64QAM	1	0	22.21	22.31	22.30	
20	64QAM	1	49	22.30	21.95	21.96	
20	64QAM	1	99	22.17	21.99	21.99	22.1
20	64QAM	50	0	21.56	21.59	21.60	
20	64QAM	50	24	21.55	21.53	21.54	
20	64QAM	50	50	21.50	21.45	21.42	20.1
20	64QAM	100	0	21.52	21.50	21.51	
20	256QAM	1	0	19.19	19.22	19.18	
20	256QAM	1	49	19.29	19.32	19.30	20.1
20	256QAM	1	99	19.15	19.23	19.12	
20	256QAM	50	0	18.92	18.94	18.89	
20	256QAM	50	24	19.03	19.11	19.08	20.1
20	256QAM	50	50	19.06	19.12	19.06	
20	256QAM	100	0	19.07	19.06	19.03	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.06	22.13	22.12	
15	QPSK	1	37	22.20	22.20	22.28	23.1
15	QPSK	1	74	21.99	21.89	21.95	
15	QPSK	36	0	22.13	22.13	22.12	
15	QPSK	36	20	22.08	22.07	22.06	23.1
15	QPSK	36	39	22.07	22.01	22.01	
15	QPSK	75	0	22.08	22.04	22.07	
15	16QAM	1	0	22.31	22.34	22.43	23.1
15	16QAM	1	37	22.44	22.29	22.37	
15	16QAM	1	74	22.24	22.15	22.24	
15	16QAM	36	0	22.11	22.11	22.09	23.1
15	16QAM	36	20	22.08	22.07	22.03	
15	16QAM	36	39	22.07	22.00	21.99	
15	16QAM	75	0	22.07	22.04	22.05	23.1
15	64QAM	1	0	22.17	22.32	22.25	
15	64QAM	1	37	22.21	22.08	22.27	
15	64QAM	1	74	22.17	22.02	22.13	22.1
15	64QAM	36	0	21.60	21.61	21.58	
15	64QAM	36	20	21.57	21.56	21.52	
15	64QAM	36	39	21.55	21.50	21.48	20.1
15	64QAM	75	0	21.57	21.53	21.53	
15	256QAM	1	0	19.14	19.13	19.12	
15	256QAM	1	37	19.21	19.27	19.24	20.1
15	256QAM	1	74	19.07	19.15	19.02	
15	256QAM	36	0	18.84	18.88	18.83	
15	256QAM	36	20	18.96	19.04	19.02	



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15	256QAM	36	39	18.96	19.06	18.97	
15	256QAM	75	0	18.98	18.97	18.95	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.08	22.04	22.03	23.1
10	QPSK	1	25	21.99	21.91	21.91	
10	QPSK	1	49	22.04	21.88	21.91	
10	QPSK	25	0	22.10	22.04	22.07	23.1
10	QPSK	25	12	22.08	22.01	22.02	
10	QPSK	25	25	22.06	21.96	21.98	
10	QPSK	50	0	22.06	22.01	22.01	
10	16QAM	1	0	22.33	22.31	22.32	23.1
10	16QAM	1	25	22.25	22.19	22.16	
10	16QAM	1	49	22.26	22.14	22.20	
10	16QAM	25	0	22.07	22.05	22.05	23.1
10	16QAM	25	12	22.06	22.03	22.01	
10	16QAM	25	25	22.04	21.99	21.97	
10	16QAM	50	0	22.06	22.01	21.99	
10	64QAM	1	0	22.22	22.18	22.17	23.1
10	64QAM	1	25	22.14	22.09	22.04	
10	64QAM	1	49	22.14	22.03	22.06	
10	64QAM	25	0	21.56	21.55	21.56	22.1
10	64QAM	25	12	21.56	21.52	21.51	
10	64QAM	25	25	21.54	21.48	21.47	
10	64QAM	50	0	21.53	21.50	21.49	
10	256QAM	1	0	19.13	19.15	19.08	20.1
10	256QAM	1	25	19.24	19.22	19.20	
10	256QAM	1	49	19.10	19.13	19.06	
10	256QAM	25	0	18.85	18.89	18.80	20.1
10	256QAM	25	12	18.96	19.06	19.00	
10	256QAM	25	25	19.00	19.07	18.98	
10	256QAM	50	0	18.99	18.96	18.96	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.05	22.04	21.99	23.1
5	QPSK	1	12	22.19	22.15	22.14	
5	QPSK	1	24	22.05	21.97	21.96	
5	QPSK	12	0	22.09	22.03	22.03	23.1
5	QPSK	12	7	22.09	22.01	22.02	
5	QPSK	12	13	22.08	21.99	21.99	
5	QPSK	25	0	22.08	22.02	22.01	
5	16QAM	1	0	22.34	22.36	22.32	23.1
5	16QAM	1	12	22.32	22.30	22.30	
5	16QAM	1	24	22.28	22.30	22.28	
5	16QAM	12	0	22.10	22.07	22.03	23.1
5	16QAM	12	7	22.10	22.04	21.99	
5	16QAM	12	13	22.11	22.03	22.00	
5	16QAM	25	0	22.09	22.04	22.00	
5	64QAM	1	0	22.24	22.21	22.18	23.1
5	64QAM	1	12	22.37	22.34	22.20	
5	64QAM	1	24	22.23	22.19	22.12	
5	64QAM	12	0	21.57	21.54	21.46	22.1
5	64QAM	12	7	21.58	21.51	21.45	
5	64QAM	12	13	21.59	21.50	21.46	
5	64QAM	25	0	21.58	21.53	21.48	
5	256QAM	1	0	19.13	19.16	19.13	20.1
5	256QAM	1	12	19.22	19.25	19.20	
5	256QAM	1	24	19.08	19.18	19.04	
5	256QAM	12	0	18.85	18.87	18.80	20.1
5	256QAM	12	7	18.93	19.01	18.98	
5	256QAM	12	13	18.98	19.04	18.99	
5	256QAM	25	0	19.01	18.98	18.94	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.06	22.01	21.99	23.1
3	QPSK	1	8	21.99	21.92	21.89	
3	QPSK	1	14	22.04	21.96	21.94	
3	QPSK	8	0	22.09	22.00	22.01	23.1
3	QPSK	8	4	22.07	21.95	21.98	
3	QPSK	8	7	22.08	21.99	22.01	
3	QPSK	15	0	22.09	21.96	22.01	
3	16QAM	1	0	22.36	22.30	22.41	23.1
3	16QAM	1	8	22.31	22.18	22.29	
3	16QAM	1	14	22.37	22.25	22.33	
3	16QAM	8	0	22.13	21.98	22.06	23.1
3	16QAM	8	4	22.11	22.02	22.08	
3	16QAM	8	7	22.11	22.00	22.06	
3	16QAM	15	0	22.07	21.97	22.07	
3	64QAM	1	0	22.20	22.12	22.17	23.1
3	64QAM	1	8	22.15	22.05	22.11	
3	64QAM	1	14	22.20	22.12	22.17	
3	64QAM	8	0	21.58	21.51	21.53	22.1
3	64QAM	8	4	21.56	21.47	21.50	
3	64QAM	8	7	21.59	21.50	21.55	
3	64QAM	15	0	21.55	21.49	21.52	
3	256QAM	1	0	19.12	19.12	19.08	20.1
3	256QAM	1	8	19.23	19.26	19.22	
3	256QAM	1	14	19.05	19.14	19.02	
3	256QAM	8	0	18.82	18.89	18.81	20.1
3	256QAM	8	4	18.95	19.02	19.03	
3	256QAM	8	7	19.00	19.07	18.99	
3	256QAM	15	0	18.98	18.99	18.96	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.01	21.93	21.92	23.1
1.4	QPSK	1	3	21.93	21.84	21.85	
1.4	QPSK	1	5	22.04	21.91	21.92	
1.4	QPSK	3	0	22.06	21.95	21.96	
1.4	QPSK	3	1	22.00	21.96	21.93	
1.4	QPSK	3	3	22.01	21.91	21.90	
1.4	QPSK	6	0	22.02	21.94	21.93	23.1
1.4	16QAM	1	0	22.32	22.31	22.29	23.1
1.4	16QAM	1	3	22.21	22.16	22.18	
1.4	16QAM	1	5	22.29	22.24	22.22	
1.4	16QAM	3	0	22.14	22.06	22.08	
1.4	16QAM	3	1	22.09	22.04	22.07	
1.4	16QAM	3	3	22.07	21.99	22.01	
1.4	16QAM	6	0	22.07	21.98	21.96	23.1
1.4	64QAM	1	0	22.17	22.16	22.18	23.1
1.4	64QAM	1	3	22.07	22.06	22.09	
1.4	64QAM	1	5	22.18	22.13	22.19	
1.4	64QAM	3	0	22.15	22.12	22.11	
1.4	64QAM	3	1	22.13	22.07	22.12	
1.4	64QAM	3	3	22.10	22.01	22.06	
1.4	64QAM	6	0	21.49	21.44	21.43	22.1
1.4	256QAM	1	0	19.12	19.14	19.11	20.1
1.4	256QAM	1	3	19.24	19.23	19.22	
1.4	256QAM	1	5	19.05	19.13	19.07	
1.4	256QAM	3	0	18.87	18.88	18.84	
1.4	256QAM	3	1	18.95	19.04	19.02	
1.4	256QAM	3	3	18.99	19.03	18.97	
1.4	256QAM	6	0	19.00	18.98	18.93	20.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.11	24.14	24.12	24.7
20	QPSK	1	49	24.10	24.08	23.95	
20	QPSK	1	99	24.02	23.88	23.57	
20	QPSK	50	0	23.10	23.11	23.01	24.2
20	QPSK	50	24	23.09	23.03	22.89	
20	QPSK	50	50	23.08	22.96	22.73	
20	QPSK	100	0	23.11	23.13	22.88	24.2
20	16QAM	1	0	23.62	23.55	23.62	
20	16QAM	1	49	23.45	23.51	23.25	
20	16QAM	1	99	23.43	23.40	23.02	23.2
20	16QAM	50	0	22.27	22.26	22.20	
20	16QAM	50	24	22.26	22.25	22.08	
20	16QAM	50	50	22.23	22.20	21.93	23.2
20	16QAM	100	0	22.25	22.21	22.08	
20	64QAM	1	0	22.52	22.58	22.52	
20	64QAM	1	49	22.38	22.53	22.19	22.2
20	64QAM	1	99	22.38	22.45	21.91	
20	64QAM	50	0	21.60	21.60	21.54	
20	64QAM	50	24	21.60	21.58	21.41	20.2
20	64QAM	50	50	21.56	21.53	21.25	
20	64QAM	100	0	21.58	21.52	21.40	
20	256QAM	1	0	19.26	19.29	19.29	20.2
20	256QAM	1	49	19.35	19.43	19.42	
20	256QAM	1	99	19.43	19.49	19.47	
20	256QAM	50	0	19.22	19.30	19.25	20.2
20	256QAM	50	24	19.29	19.32	19.22	
20	256QAM	50	50	19.23	19.33	19.26	
20	256QAM	100	0	19.30	19.33	19.30	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	24.01	24.04	23.94	24.7
15	QPSK	1	37	24.00	23.91	23.80	
15	QPSK	1	74	23.99	23.90	23.58	
15	QPSK	36	0	23.08	23.07	22.94	24.2
15	QPSK	36	20	23.05	23.03	22.83	
15	QPSK	36	39	23.06	23.01	22.73	
15	QPSK	75	0	23.07	23.03	22.86	24.2
15	16QAM	1	0	23.57	23.57	23.55	
15	16QAM	1	37	23.51	23.45	23.38	
15	16QAM	1	74	23.48	23.41	23.16	23.2
15	16QAM	36	0	22.29	22.29	22.13	
15	16QAM	36	20	22.26	22.27	22.03	
15	16QAM	36	39	22.23	22.24	21.92	23.2
15	16QAM	75	0	22.30	22.27	22.09	
15	64QAM	1	0	22.59	22.56	22.38	
15	64QAM	1	37	22.60	22.52	22.28	22.2
15	64QAM	1	74	22.45	22.40	22.00	
15	64QAM	36	0	21.62	21.59	21.46	
15	64QAM	36	20	21.59	21.57	21.37	20.2
15	64QAM	36	39	21.59	21.59	21.27	
15	64QAM	75	0	21.56	21.56	21.37	
15	256QAM	1	0	19.26	19.20	19.28	20.2
15	256QAM	1	37	19.33	19.33	19.39	
15	256QAM	1	74	19.43	19.42	19.37	
15	256QAM	36	0	19.16	19.28	19.16	20.2
15	256QAM	36	20	19.29	19.30	19.15	
15	256QAM	36	39	19.18	19.28	19.24	



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15	256QAM	75	0	19.20	19.29	19.22	Tune-up limit (dBm)
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	24.05	24.08	23.95	24.7
10	QPSK	1	25	23.90	23.85	23.65	
10	QPSK	1	49	23.97	23.90	23.61	
10	QPSK	25	0	23.05	23.10	22.93	24.2
10	QPSK	25	12	23.06	23.06	22.87	
10	QPSK	25	25	23.06	23.03	22.79	
10	QPSK	50	0	23.04	23.07	22.84	24.2
10	16QAM	1	0	23.58	23.53	23.52	
10	16QAM	1	25	23.59	23.48	23.33	
10	16QAM	1	49	23.48	23.47	23.20	23.2
10	16QAM	25	0	22.31	22.33	22.15	
10	16QAM	25	12	22.29	22.30	22.06	
10	16QAM	25	25	22.27	22.29	22.02	23.2
10	16QAM	50	0	22.26	22.26	22.05	
10	64QAM	1	0	22.51	22.52	22.39	
10	64QAM	1	25	22.46	22.39	22.14	23.2
10	64QAM	1	49	22.38	22.45	22.19	
10	64QAM	25	0	21.60	21.61	21.45	
10	64QAM	25	12	21.58	21.59	21.37	22.2
10	64QAM	25	25	21.58	21.57	21.31	
10	64QAM	50	0	21.59	21.61	21.38	
10	256QAM	1	0	19.25	19.21	19.28	20.2
10	256QAM	1	25	19.25	19.34	19.34	
10	256QAM	1	49	19.35	19.43	19.42	
10	256QAM	25	0	19.17	19.21	19.16	20.2
10	256QAM	25	12	19.22	19.26	19.17	
10	256QAM	25	25	19.21	19.31	19.24	
10	256QAM	50	0	19.21	19.31	19.23	Tune-up limit (dBm)
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	24.09	24.05	23.90	24.7
5	QPSK	1	12	24.09	24.05	23.85	
5	QPSK	1	24	24.09	24.05	23.81	
5	QPSK	12	0	23.08	23.14	22.89	24.2
5	QPSK	12	7	23.05	23.16	22.86	
5	QPSK	12	13	23.07	23.13	22.81	
5	QPSK	25	0	23.03	23.08	22.82	24.2
5	16QAM	1	0	23.62	23.63	23.43	
5	16QAM	1	12	23.58	23.58	23.33	
5	16QAM	1	24	23.60	23.57	23.32	23.2
5	16QAM	12	0	22.33	22.36	22.14	
5	16QAM	12	7	22.35	22.37	22.14	
5	16QAM	12	13	22.31	22.35	22.06	23.2
5	16QAM	25	0	22.27	22.32	22.04	
5	64QAM	1	0	22.42	22.38	22.31	
5	64QAM	1	12	22.42	22.35	22.24	22.2
5	64QAM	1	24	22.41	22.40	22.15	
5	64QAM	12	0	21.64	21.66	21.38	
5	64QAM	12	7	21.65	21.65	21.39	20.2
5	64QAM	12	13	21.60	21.63	21.34	
5	64QAM	25	0	21.59	21.62	21.35	
5	256QAM	1	0	19.22	19.23	19.29	20.2
5	256QAM	1	12	19.32	19.40	19.33	
5	256QAM	1	24	19.39	19.48	19.43	
5	256QAM	12	0	19.14	19.30	19.24	20.2
5	256QAM	12	7	19.28	19.24	19.14	
5	256QAM	12	13	19.21	19.27	19.17	
5	256QAM	25	0	19.29	19.24	19.25	Tune-up limit (dBm)
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	



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3	QPSK	1	0	24.10	24.05	23.89	24.7
3	QPSK	1	8	23.98	24.04	23.70	
3	QPSK	1	14	24.06	24.11	23.72	
3	QPSK	8	0	23.05	23.12	22.78	24.2
3	QPSK	8	4	23.06	23.12	22.79	
3	QPSK	8	7	23.06	23.09	22.77	
3	QPSK	15	0	23.04	23.08	22.76	
3	16QAM	1	0	23.60	23.69	23.36	24.2
3	16QAM	1	8	23.47	23.52	23.20	
3	16QAM	1	14	23.54	23.62	23.25	
3	16QAM	8	0	22.30	22.34	22.05	23.2
3	16QAM	8	4	22.31	22.35	22.06	
3	16QAM	8	7	22.31	22.35	22.07	
3	16QAM	15	0	22.28	22.33	22.04	
3	64QAM	1	0	22.41	22.48	22.21	23.2
3	64QAM	1	8	22.34	22.42	22.16	
3	64QAM	1	14	22.40	22.50	22.18	
3	64QAM	8	0	21.65	21.67	21.36	22.2
3	64QAM	8	4	21.67	21.68	21.32	
3	64QAM	8	7	21.64	21.66	21.32	
3	64QAM	15	0	21.62	21.62	21.32	
3	256QAM	1	0	19.19	19.20	19.29	20.2
3	256QAM	1	8	19.35	19.42	19.34	
3	256QAM	1	14	19.40	19.39	19.39	
3	256QAM	8	0	19.12	19.23	19.15	20.2
3	256QAM	8	4	19.20	19.25	19.13	
3	256QAM	8	7	19.17	19.33	19.18	
3	256QAM	15	0	19.24	19.26	19.27	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	24.02	24.11	23.74	24.7
1.4	QPSK	1	3	23.84	23.92	23.64	
1.4	QPSK	1	5	24.00	24.09	23.73	
1.4	QPSK	3	0	23.90	23.97	23.62	
1.4	QPSK	3	1	23.98	24.01	23.75	
1.4	QPSK	3	3	23.98	24.06	23.69	
1.4	QPSK	6	0	22.95	23.02	22.70	24.2
1.4	16QAM	1	0	23.51	23.65	23.32	24.2
1.4	16QAM	1	3	23.38	23.48	23.16	
1.4	16QAM	1	5	23.53	23.57	23.26	
1.4	16QAM	3	0	23.31	23.37	23.09	
1.4	16QAM	3	1	23.29	23.27	23.10	
1.4	16QAM	3	3	23.30	23.31	23.04	
1.4	16QAM	6	0	22.28	22.37	22.01	23.2
1.4	64QAM	1	0	22.43	22.50	22.13	23.2
1.4	64QAM	1	3	22.28	22.32	22.00	
1.4	64QAM	1	5	22.42	22.38	22.13	
1.4	64QAM	3	0	22.28	22.31	22.00	
1.4	64QAM	3	1	22.35	22.36	21.97	
1.4	64QAM	3	3	22.25	22.30	22.06	
1.4	64QAM	6	0	21.45	21.56	21.26	22.2
1.4	256QAM	1	0	19.17	19.26	19.21	20.2
1.4	256QAM	1	3	19.27	19.40	19.39	
1.4	256QAM	1	5	19.36	19.48	19.38	
1.4	256QAM	3	0	19.20	19.22	19.16	
1.4	256QAM	3	1	19.20	19.26	19.12	
1.4	256QAM	3	3	19.13	19.33	19.21	
1.4	256QAM	6	0	19.20	19.24	19.30	20.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.35	22.45	22.34	
20	QPSK	1	49	22.30	22.32	22.29	23.1
20	QPSK	1	99	22.11	22.16	22.14	
20	QPSK	50	0	22.09	22.18	22.13	
20	QPSK	50	24	22.04	22.02	22.03	23.1
20	QPSK	50	50	22.00	21.94	21.93	
20	QPSK	100	0	22.05	22.00	22.04	
20	16QAM	1	0	22.36	22.37	22.36	23.1
20	16QAM	1	49	22.37	22.32	22.34	
20	16QAM	1	99	22.21	22.09	22.13	
20	16QAM	50	0	22.08	22.08	22.09	23.1
20	16QAM	50	24	22.06	22.03	22.02	
20	16QAM	50	50	21.99	21.94	21.92	
20	16QAM	100	0	22.03	21.99	22.00	23.1
20	64QAM	1	0	22.21	22.31	22.30	
20	64QAM	1	49	22.30	21.95	21.96	
20	64QAM	1	99	22.17	21.99	21.99	22.1
20	64QAM	50	0	21.56	21.59	21.60	
20	64QAM	50	24	21.55	21.53	21.54	
20	64QAM	50	50	21.50	21.45	21.42	20.1
20	64QAM	100	0	21.52	21.50	21.51	
20	256QAM	1	0	19.19	19.22	19.18	
20	256QAM	1	49	19.29	19.32	19.30	20.1
20	256QAM	1	99	19.15	19.23	19.12	
20	256QAM	50	0	18.92	18.94	18.89	
20	256QAM	50	24	19.03	19.11	19.08	20.1
20	256QAM	50	50	19.06	19.12	19.06	
20	256QAM	100	0	19.07	19.06	19.03	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.06	22.13	22.12	
15	QPSK	1	37	22.20	22.20	22.28	23.1
15	QPSK	1	74	21.99	21.89	21.95	
15	QPSK	36	0	22.13	22.13	22.12	
15	QPSK	36	20	22.08	22.07	22.06	23.1
15	QPSK	36	39	22.07	22.01	22.01	
15	QPSK	75	0	22.08	22.04	22.07	
15	16QAM	1	0	22.31	22.34	22.43	23.1
15	16QAM	1	37	22.44	22.29	22.37	
15	16QAM	1	74	22.24	22.15	22.24	
15	16QAM	36	0	22.11	22.11	22.09	23.1
15	16QAM	36	20	22.08	22.07	22.03	
15	16QAM	36	39	22.07	22.00	21.99	
15	16QAM	75	0	22.07	22.04	22.05	23.1
15	64QAM	1	0	22.17	22.32	22.25	
15	64QAM	1	37	22.21	22.08	22.27	
15	64QAM	1	74	22.17	22.02	22.13	22.1
15	64QAM	36	0	21.60	21.61	21.58	
15	64QAM	36	20	21.57	21.56	21.52	
15	64QAM	36	39	21.55	21.50	21.48	20.1
15	64QAM	75	0	21.57	21.53	21.53	
15	256QAM	1	0	19.14	19.13	19.12	
15	256QAM	1	37	19.21	19.27	19.24	20.1
15	256QAM	1	74	19.07	19.15	19.02	
15	256QAM	36	0	18.84	18.88	18.83	
15	256QAM	36	20	18.96	19.04	19.02	



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15	256QAM	36	39	18.96	19.06	18.97	
15	256QAM	75	0	18.98	18.97	18.95	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.08	22.04	22.03	23.1
10	QPSK	1	25	21.99	21.91	21.91	
10	QPSK	1	49	22.04	21.88	21.91	
10	QPSK	25	0	22.10	22.04	22.07	23.1
10	QPSK	25	12	22.08	22.01	22.02	
10	QPSK	25	25	22.06	21.96	21.98	
10	QPSK	50	0	22.06	22.01	22.01	
10	16QAM	1	0	22.33	22.31	22.32	23.1
10	16QAM	1	25	22.25	22.19	22.16	
10	16QAM	1	49	22.26	22.14	22.20	
10	16QAM	25	0	22.07	22.05	22.05	23.1
10	16QAM	25	12	22.06	22.03	22.01	
10	16QAM	25	25	22.04	21.99	21.97	
10	16QAM	50	0	22.06	22.01	21.99	
10	64QAM	1	0	22.22	22.18	22.17	23.1
10	64QAM	1	25	22.14	22.09	22.04	
10	64QAM	1	49	22.14	22.03	22.06	
10	64QAM	25	0	21.56	21.55	21.56	22.1
10	64QAM	25	12	21.56	21.52	21.51	
10	64QAM	25	25	21.54	21.48	21.47	
10	64QAM	50	0	21.53	21.50	21.49	
10	256QAM	1	0	19.13	19.15	19.08	20.1
10	256QAM	1	25	19.24	19.22	19.20	
10	256QAM	1	49	19.10	19.13	19.06	
10	256QAM	25	0	18.85	18.89	18.80	20.1
10	256QAM	25	12	18.96	19.06	19.00	
10	256QAM	25	25	19.00	19.07	18.98	
10	256QAM	50	0	18.99	18.96	18.96	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.05	22.04	21.99	23.1
5	QPSK	1	12	22.19	22.15	22.14	
5	QPSK	1	24	22.05	21.97	21.96	
5	QPSK	12	0	22.09	22.03	22.03	23.1
5	QPSK	12	7	22.09	22.01	22.02	
5	QPSK	12	13	22.08	21.99	21.99	
5	QPSK	25	0	22.08	22.02	22.01	
5	16QAM	1	0	22.34	22.36	22.32	23.1
5	16QAM	1	12	22.32	22.30	22.30	
5	16QAM	1	24	22.28	22.30	22.28	
5	16QAM	12	0	22.10	22.07	22.03	23.1
5	16QAM	12	7	22.10	22.04	21.99	
5	16QAM	12	13	22.11	22.03	22.00	
5	16QAM	25	0	22.09	22.04	22.00	
5	64QAM	1	0	22.24	22.21	22.18	23.1
5	64QAM	1	12	22.37	22.34	22.20	
5	64QAM	1	24	22.23	22.19	22.12	
5	64QAM	12	0	21.57	21.54	21.46	22.1
5	64QAM	12	7	21.58	21.51	21.45	
5	64QAM	12	13	21.59	21.50	21.46	
5	64QAM	25	0	21.58	21.53	21.48	
5	256QAM	1	0	19.13	19.16	19.13	20.1
5	256QAM	1	12	19.22	19.25	19.20	
5	256QAM	1	24	19.08	19.18	19.04	
5	256QAM	12	0	18.85	18.87	18.80	20.1
5	256QAM	12	7	18.93	19.01	18.98	
5	256QAM	12	13	18.98	19.04	18.99	
5	256QAM	25	0	19.01	18.98	18.94	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.06	22.01	21.99	23.1
3	QPSK	1	8	21.99	21.92	21.89	
3	QPSK	1	14	22.04	21.96	21.94	
3	QPSK	8	0	22.09	22.00	22.01	23.1
3	QPSK	8	4	22.07	21.95	21.98	
3	QPSK	8	7	22.08	21.99	22.01	
3	QPSK	15	0	22.09	21.96	22.01	
3	16QAM	1	0	22.36	22.30	22.41	23.1
3	16QAM	1	8	22.31	22.18	22.29	
3	16QAM	1	14	22.37	22.25	22.33	
3	16QAM	8	0	22.13	21.98	22.06	23.1
3	16QAM	8	4	22.11	22.02	22.08	
3	16QAM	8	7	22.11	22.00	22.06	
3	16QAM	15	0	22.07	21.97	22.07	
3	64QAM	1	0	22.20	22.12	22.17	23.1
3	64QAM	1	8	22.15	22.05	22.11	
3	64QAM	1	14	22.20	22.12	22.17	
3	64QAM	8	0	21.58	21.51	21.53	22.1
3	64QAM	8	4	21.56	21.47	21.50	
3	64QAM	8	7	21.59	21.50	21.55	
3	64QAM	15	0	21.55	21.49	21.52	
3	256QAM	1	0	19.12	19.12	19.08	20.1
3	256QAM	1	8	19.23	19.26	19.22	
3	256QAM	1	14	19.05	19.14	19.02	
3	256QAM	8	0	18.82	18.89	18.81	20.1
3	256QAM	8	4	18.95	19.02	19.03	
3	256QAM	8	7	19.00	19.07	18.99	
3	256QAM	15	0	18.98	18.99	18.96	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.01	21.93	21.92	23.1
1.4	QPSK	1	3	21.93	21.84	21.85	
1.4	QPSK	1	5	22.04	21.91	21.92	
1.4	QPSK	3	0	22.06	21.95	21.96	
1.4	QPSK	3	1	22.00	21.96	21.93	
1.4	QPSK	3	3	22.01	21.91	21.90	
1.4	QPSK	6	0	22.02	21.94	21.93	23.1
1.4	16QAM	1	0	22.32	22.31	22.29	23.1
1.4	16QAM	1	3	22.21	22.16	22.18	
1.4	16QAM	1	5	22.29	22.24	22.22	
1.4	16QAM	3	0	22.14	22.06	22.08	
1.4	16QAM	3	1	22.09	22.04	22.07	
1.4	16QAM	3	3	22.07	21.99	22.01	
1.4	16QAM	6	0	22.07	21.98	21.96	23.1
1.4	64QAM	1	0	22.17	22.16	22.18	23.1
1.4	64QAM	1	3	22.07	22.06	22.09	
1.4	64QAM	1	5	22.18	22.13	22.19	
1.4	64QAM	3	0	22.15	22.12	22.11	
1.4	64QAM	3	1	22.13	22.07	22.12	
1.4	64QAM	3	3	22.10	22.01	22.06	
1.4	64QAM	6	0	21.49	21.44	21.43	22.1
1.4	256QAM	1	0	19.12	19.14	19.11	20.1
1.4	256QAM	1	3	19.24	19.23	19.22	
1.4	256QAM	1	5	19.05	19.13	19.07	
1.4	256QAM	3	0	18.87	18.88	18.84	
1.4	256QAM	3	1	18.95	19.04	19.02	
1.4	256QAM	3	3	18.99	19.03	18.97	
1.4	256QAM	6	0	19.00	18.98	18.93	20.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.14	23.17	23.10	
20	QPSK	1	49	23.10	23.04	22.89	23.4
20	QPSK	1	99	23.12	22.97	22.65	
20	QPSK	50	0	23.21	23.22	23.08	
20	QPSK	50	24	23.21	23.14	23.00	23.4
20	QPSK	50	50	23.20	23.07	22.85	
20	QPSK	100	0	23.23	23.24	22.99	
20	16QAM	1	0	23.39	23.34	23.23	23.4
20	16QAM	1	49	23.19	23.17	22.84	
20	16QAM	1	99	23.25	23.10	22.77	
20	16QAM	50	0	22.40	22.36	22.27	23.2
20	16QAM	50	24	22.40	22.34	22.17	
20	16QAM	50	50	22.39	22.30	22.03	
20	16QAM	100	0	22.41	22.31	22.14	23.2
20	64QAM	1	0	22.73	22.59	22.63	
20	64QAM	1	49	22.63	22.53	22.33	
20	64QAM	1	99	22.61	22.44	22.10	22.2
20	64QAM	50	0	21.47	21.38	21.31	
20	64QAM	50	24	21.44	21.38	21.20	
20	64QAM	50	50	21.39	21.34	21.07	20.2
20	64QAM	100	0	21.41	21.34	21.19	
20	256QAM	1	0	19.16	19.26	19.25	
20	256QAM	1	49	19.26	19.33	19.39	20.2
20	256QAM	1	99	19.39	19.48	19.42	
20	256QAM	50	0	19.20	19.24	19.21	
20	256QAM	50	24	19.27	19.22	19.17	20.2
20	256QAM	50	50	19.16	19.25	19.23	
20	256QAM	100	0	19.19	19.31	19.27	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.09	23.09	23.03	
15	QPSK	1	37	23.05	23.02	22.81	23.4
15	QPSK	1	74	23.09	22.93	22.62	
15	QPSK	36	0	23.19	23.13	23.00	23.4
15	QPSK	36	20	23.16	23.11	22.89	
15	QPSK	36	39	23.15	22.96	22.81	
15	QPSK	75	0	23.15	23.22	22.88	23.4
15	16QAM	1	0	23.28	23.27	23.15	
15	16QAM	1	37	23.14	23.12	22.80	
15	16QAM	1	74	23.20	23.04	22.71	23.2
15	16QAM	36	0	22.34	22.34	22.18	
15	16QAM	36	20	22.36	22.32	22.12	
15	16QAM	36	39	22.38	22.25	21.92	23.2
15	16QAM	75	0	22.36	22.27	22.06	
15	64QAM	1	0	22.63	22.56	22.62	
15	64QAM	1	37	22.52	22.49	22.27	22.2
15	64QAM	1	74	22.54	22.34	22.09	
15	64QAM	36	0	21.37	21.37	21.20	
15	64QAM	36	20	21.36	21.30	21.10	20.2
15	64QAM	36	39	21.32	21.23	20.99	
15	64QAM	75	0	21.33	21.33	21.18	
15	256QAM	1	0	19.07	19.24	19.22	20.2
15	256QAM	1	37	19.17	19.32	19.37	
15	256QAM	1	74	19.31	19.44	19.35	
15	256QAM	36	0	19.14	19.15	19.20	20.2
15	256QAM	36	20	19.21	19.11	19.09	
15	256QAM	36	39	19.05	19.17	19.15	



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15	256QAM	75	0	19.15	19.21	19.25	Tune-up limit (dBm)
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.03	23.10	23.09	23.4
10	QPSK	1	25	23.07	22.94	22.81	
10	QPSK	1	49	23.04	22.94	22.59	
10	QPSK	25	0	23.10	23.20	23.00	23.4
10	QPSK	25	12	23.14	23.07	22.93	
10	QPSK	25	25	23.12	23.05	22.80	
10	QPSK	50	0	23.16	23.19	22.95	23.4
10	16QAM	1	0	23.31	23.23	23.16	
10	16QAM	1	25	23.08	23.14	22.77	
10	16QAM	1	49	23.17	23.09	22.76	23.2
10	16QAM	25	0	22.30	22.32	22.25	
10	16QAM	25	12	22.32	22.30	22.10	
10	16QAM	25	25	22.29	22.23	22.00	23.2
10	16QAM	50	0	22.39	22.29	22.11	
10	64QAM	1	0	22.64	22.50	22.54	
10	64QAM	1	25	22.57	22.47	22.32	23.2
10	64QAM	1	49	22.53	22.38	22.04	
10	64QAM	25	0	21.44	21.27	21.29	
10	64QAM	25	12	21.34	21.33	21.14	22.2
10	64QAM	25	25	21.37	21.26	21.06	
10	64QAM	50	0	21.38	21.26	21.14	
10	256QAM	1	0	19.07	19.22	19.21	20.2
10	256QAM	1	25	19.22	19.22	19.28	
10	256QAM	1	49	19.33	19.40	19.39	
10	256QAM	25	0	19.17	19.19	19.15	20.2
10	256QAM	25	12	19.23	19.17	19.07	
10	256QAM	25	25	19.10	19.19	19.14	
10	256QAM	50	0	19.11	19.25	19.22	Tune-up limit (dBm)
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.03	23.10	22.99	23.4
5	QPSK	1	12	23.01	22.94	22.78	
5	QPSK	1	24	23.03	22.92	22.56	
5	QPSK	12	0	23.11	23.19	23.02	23.4
5	QPSK	12	7	23.10	23.07	22.96	
5	QPSK	12	13	23.09	22.97	22.84	
5	QPSK	25	0	23.21	23.13	22.92	23.4
5	16QAM	1	0	23.28	23.29	23.20	
5	16QAM	1	12	23.10	23.10	22.78	
5	16QAM	1	24	23.22	23.02	22.71	23.2
5	16QAM	12	0	22.30	22.27	22.26	
5	16QAM	12	7	22.29	22.31	22.12	
5	16QAM	12	13	22.33	22.20	22.02	23.2
5	16QAM	25	0	22.36	22.30	22.12	
5	64QAM	1	0	22.69	22.50	22.58	
5	64QAM	1	12	22.56	22.48	22.32	23.2
5	64QAM	1	24	22.59	22.43	22.08	
5	64QAM	12	0	21.45	21.36	21.29	22.2
5	64QAM	12	7	21.37	21.32	21.11	
5	64QAM	12	13	21.37	21.31	21.03	
5	64QAM	25	0	21.36	21.23	21.16	20.2
5	256QAM	1	0	19.05	19.23	19.19	
5	256QAM	1	12	19.16	19.22	19.34	
5	256QAM	1	24	19.35	19.44	19.36	20.2
5	256QAM	12	0	19.17	19.16	19.11	
5	256QAM	12	7	19.17	19.17	19.15	
5	256QAM	12	13	19.14	19.20	19.19	Tune-up limit (dBm)
5	256QAM	25	0	19.09	19.23	19.21	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	



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3	QPSK	1	0	23.05	23.15	23.00	23.4
3	QPSK	1	8	22.99	23.01	22.79	
3	QPSK	1	14	23.06	22.90	22.54	
3	QPSK	8	0	23.11	23.13	23.03	23.4
3	QPSK	8	4	23.18	23.03	22.98	
3	QPSK	8	7	23.11	23.01	22.76	
3	QPSK	15	0	23.13	23.21	22.95	23.4
3	16QAM	1	0	23.32	23.23	23.22	
3	16QAM	1	8	23.18	23.06	22.80	
3	16QAM	1	14	23.15	23.06	22.69	23.2
3	16QAM	8	0	22.36	22.31	22.22	
3	16QAM	8	4	22.39	22.30	22.14	
3	16QAM	8	7	22.38	22.28	21.93	23.2
3	16QAM	15	0	22.40	22.24	22.08	
3	64QAM	1	0	22.62	22.58	22.61	
3	64QAM	1	8	22.61	22.43	22.28	22.2
3	64QAM	1	14	22.52	22.35	22.01	
3	64QAM	8	0	21.46	21.33	21.27	
3	64QAM	8	4	21.33	21.35	21.17	20.2
3	64QAM	8	7	21.34	21.30	21.01	
3	64QAM	15	0	21.31	21.25	21.15	
3	256QAM	1	0	19.11	19.23	19.20	20.2
3	256QAM	1	8	19.15	19.25	19.32	
3	256QAM	1	14	19.33	19.40	19.40	
3	256QAM	8	0	19.10	19.19	19.20	20.2
3	256QAM	8	4	19.16	19.14	19.10	
3	256QAM	8	7	19.09	19.24	19.22	
3	256QAM	15	0	19.08	19.25	19.21	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.10	23.16	23.09	23.4
1.4	QPSK	1	3	23.02	22.94	22.83	
1.4	QPSK	1	5	23.06	22.93	22.63	
1.4	QPSK	3	0	23.18	23.16	23.01	
1.4	QPSK	3	1	23.11	23.13	22.96	
1.4	QPSK	3	3	23.11	23.03	22.82	23.4
1.4	QPSK	6	0	23.22	23.21	22.96	
1.4	16QAM	1	0	23.29	23.23	23.16	23.4
1.4	16QAM	1	3	23.12	23.08	22.76	
1.4	16QAM	1	5	23.21	22.99	22.76	
1.4	16QAM	3	0	22.39	22.28	22.25	
1.4	16QAM	3	1	22.37	22.32	22.14	
1.4	16QAM	3	3	22.36	22.28	22.30	23.2
1.4	16QAM	6	0	22.31	22.24	22.06	
1.4	64QAM	1	0	22.64	22.58	22.58	23.2
1.4	64QAM	1	3	22.54	22.47	22.27	
1.4	64QAM	1	5	22.60	22.37	22.04	
1.4	64QAM	3	0	22.37	22.28	22.22	
1.4	64QAM	3	1	22.43	22.32	22.12	
1.4	64QAM	3	3	22.35	22.31	22.01	22.2
1.4	64QAM	6	0	21.36	21.31	21.08	
1.4	256QAM	1	0	19.15	19.25	19.17	20.2
1.4	256QAM	1	3	19.19	19.24	19.35	
1.4	256QAM	1	5	19.38	19.43	19.34	
1.4	256QAM	3	0	19.14	19.15	19.13	
1.4	256QAM	3	1	19.25	19.15	19.13	
1.4	256QAM	3	3	19.11	19.20	19.18	20.2
1.4	256QAM	6	0	19.08	19.24	19.24	



<LTE Band 66_Ant 5_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.35	22.45	22.34	
20	QPSK	1	49	22.30	22.32	22.29	23.1
20	QPSK	1	99	22.11	22.16	22.14	
20	QPSK	50	0	22.09	22.18	22.13	
20	QPSK	50	24	22.04	22.02	22.03	23.1
20	QPSK	50	50	22.00	21.94	21.93	
20	QPSK	100	0	22.05	22.00	22.04	
20	16QAM	1	0	22.36	22.37	22.36	23.1
20	16QAM	1	49	22.37	22.32	22.34	
20	16QAM	1	99	22.21	22.09	22.13	
20	16QAM	50	0	22.08	22.08	22.09	23.1
20	16QAM	50	24	22.06	22.03	22.02	
20	16QAM	50	50	21.99	21.94	21.92	
20	16QAM	100	0	22.03	21.99	22.00	23.1
20	64QAM	1	0	22.21	22.31	22.30	
20	64QAM	1	49	22.30	21.95	21.96	
20	64QAM	1	99	22.17	21.99	21.99	22.1
20	64QAM	50	0	21.56	21.59	21.60	
20	64QAM	50	24	21.55	21.53	21.54	
20	64QAM	50	50	21.50	21.45	21.42	20.1
20	64QAM	100	0	21.52	21.50	21.51	
20	256QAM	1	0	19.19	19.22	19.18	
20	256QAM	1	49	19.29	19.32	19.30	20.1
20	256QAM	1	99	19.15	19.23	19.12	
20	256QAM	50	0	18.92	18.94	18.89	
20	256QAM	50	24	19.03	19.11	19.08	20.1
20	256QAM	50	50	19.06	19.12	19.06	
20	256QAM	100	0	19.07	19.06	19.03	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.06	22.13	22.12	
15	QPSK	1	37	22.20	22.20	22.28	23.1
15	QPSK	1	74	21.99	21.89	21.95	
15	QPSK	36	0	22.13	22.13	22.12	
15	QPSK	36	20	22.08	22.07	22.06	23.1
15	QPSK	36	39	22.07	22.01	22.01	
15	QPSK	75	0	22.08	22.04	22.07	
15	16QAM	1	0	22.31	22.34	22.43	23.1
15	16QAM	1	37	22.44	22.29	22.37	
15	16QAM	1	74	22.24	22.15	22.24	
15	16QAM	36	0	22.11	22.11	22.09	23.1
15	16QAM	36	20	22.08	22.07	22.03	
15	16QAM	36	39	22.07	22.00	21.99	
15	16QAM	75	0	22.07	22.04	22.05	23.1
15	64QAM	1	0	22.17	22.32	22.25	
15	64QAM	1	37	22.21	22.08	22.27	
15	64QAM	1	74	22.17	22.02	22.13	22.1
15	64QAM	36	0	21.60	21.61	21.58	
15	64QAM	36	20	21.57	21.56	21.52	
15	64QAM	36	39	21.55	21.50	21.48	20.1
15	64QAM	75	0	21.57	21.53	21.53	
15	256QAM	1	0	19.14	19.13	19.12	
15	256QAM	1	37	19.21	19.27	19.24	20.1
15	256QAM	1	74	19.07	19.15	19.02	
15	256QAM	36	0	18.84	18.88	18.83	
15	256QAM	36	20	18.96	19.04	19.02	



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15	256QAM	36	39	18.96	19.06	18.97	
15	256QAM	75	0	18.98	18.97	18.95	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.08	22.04	22.03	23.1
10	QPSK	1	25	21.99	21.91	21.91	
10	QPSK	1	49	22.04	21.88	21.91	
10	QPSK	25	0	22.10	22.04	22.07	23.1
10	QPSK	25	12	22.08	22.01	22.02	
10	QPSK	25	25	22.06	21.96	21.98	
10	QPSK	50	0	22.06	22.01	22.01	
10	16QAM	1	0	22.33	22.31	22.32	23.1
10	16QAM	1	25	22.25	22.19	22.16	
10	16QAM	1	49	22.26	22.14	22.20	
10	16QAM	25	0	22.07	22.05	22.05	23.1
10	16QAM	25	12	22.06	22.03	22.01	
10	16QAM	25	25	22.04	21.99	21.97	
10	16QAM	50	0	22.06	22.01	21.99	
10	64QAM	1	0	22.22	22.18	22.17	23.1
10	64QAM	1	25	22.14	22.09	22.04	
10	64QAM	1	49	22.14	22.03	22.06	
10	64QAM	25	0	21.56	21.55	21.56	22.1
10	64QAM	25	12	21.56	21.52	21.51	
10	64QAM	25	25	21.54	21.48	21.47	
10	64QAM	50	0	21.53	21.50	21.49	
10	256QAM	1	0	19.13	19.15	19.08	20.1
10	256QAM	1	25	19.24	19.22	19.20	
10	256QAM	1	49	19.10	19.13	19.06	
10	256QAM	25	0	18.85	18.89	18.80	20.1
10	256QAM	25	12	18.96	19.06	19.00	
10	256QAM	25	25	19.00	19.07	18.98	
10	256QAM	50	0	18.99	18.96	18.96	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.05	22.04	21.99	23.1
5	QPSK	1	12	22.19	22.15	22.14	
5	QPSK	1	24	22.05	21.97	21.96	
5	QPSK	12	0	22.09	22.03	22.03	23.1
5	QPSK	12	7	22.09	22.01	22.02	
5	QPSK	12	13	22.08	21.99	21.99	
5	QPSK	25	0	22.08	22.02	22.01	
5	16QAM	1	0	22.34	22.36	22.32	23.1
5	16QAM	1	12	22.32	22.30	22.30	
5	16QAM	1	24	22.28	22.30	22.28	
5	16QAM	12	0	22.10	22.07	22.03	23.1
5	16QAM	12	7	22.10	22.04	21.99	
5	16QAM	12	13	22.11	22.03	22.00	
5	16QAM	25	0	22.09	22.04	22.00	
5	64QAM	1	0	22.24	22.21	22.18	23.1
5	64QAM	1	12	22.37	22.34	22.20	
5	64QAM	1	24	22.23	22.19	22.12	
5	64QAM	12	0	21.57	21.54	21.46	22.1
5	64QAM	12	7	21.58	21.51	21.45	
5	64QAM	12	13	21.59	21.50	21.46	
5	64QAM	25	0	21.58	21.53	21.48	
5	256QAM	1	0	19.13	19.16	19.13	20.1
5	256QAM	1	12	19.22	19.25	19.20	
5	256QAM	1	24	19.08	19.18	19.04	
5	256QAM	12	0	18.85	18.87	18.80	20.1
5	256QAM	12	7	18.93	19.01	18.98	
5	256QAM	12	13	18.98	19.04	18.99	
5	256QAM	25	0	19.01	18.98	18.94	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.06	22.01	21.99	23.1
3	QPSK	1	8	21.99	21.92	21.89	
3	QPSK	1	14	22.04	21.96	21.94	
3	QPSK	8	0	22.09	22.00	22.01	23.1
3	QPSK	8	4	22.07	21.95	21.98	
3	QPSK	8	7	22.08	21.99	22.01	
3	QPSK	15	0	22.09	21.96	22.01	
3	16QAM	1	0	22.36	22.30	22.41	23.1
3	16QAM	1	8	22.31	22.18	22.29	
3	16QAM	1	14	22.37	22.25	22.33	
3	16QAM	8	0	22.13	21.98	22.06	23.1
3	16QAM	8	4	22.11	22.02	22.08	
3	16QAM	8	7	22.11	22.00	22.06	
3	16QAM	15	0	22.07	21.97	22.07	
3	64QAM	1	0	22.20	22.12	22.17	23.1
3	64QAM	1	8	22.15	22.05	22.11	
3	64QAM	1	14	22.20	22.12	22.17	
3	64QAM	8	0	21.58	21.51	21.53	22.1
3	64QAM	8	4	21.56	21.47	21.50	
3	64QAM	8	7	21.59	21.50	21.55	
3	64QAM	15	0	21.55	21.49	21.52	
3	256QAM	1	0	19.12	19.12	19.08	20.1
3	256QAM	1	8	19.23	19.26	19.22	
3	256QAM	1	14	19.05	19.14	19.02	
3	256QAM	8	0	18.82	18.89	18.81	20.1
3	256QAM	8	4	18.95	19.02	19.03	
3	256QAM	8	7	19.00	19.07	18.99	
3	256QAM	15	0	18.98	18.99	18.96	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.01	21.93	21.92	23.1
1.4	QPSK	1	3	21.93	21.84	21.85	
1.4	QPSK	1	5	22.04	21.91	21.92	
1.4	QPSK	3	0	22.06	21.95	21.96	
1.4	QPSK	3	1	22.00	21.96	21.93	
1.4	QPSK	3	3	22.01	21.91	21.90	
1.4	QPSK	6	0	22.02	21.94	21.93	23.1
1.4	16QAM	1	0	22.32	22.31	22.29	23.1
1.4	16QAM	1	3	22.21	22.16	22.18	
1.4	16QAM	1	5	22.29	22.24	22.22	
1.4	16QAM	3	0	22.14	22.06	22.08	
1.4	16QAM	3	1	22.09	22.04	22.07	
1.4	16QAM	3	3	22.07	21.99	22.01	
1.4	16QAM	6	0	22.07	21.98	21.96	23.1
1.4	64QAM	1	0	22.17	22.16	22.18	23.1
1.4	64QAM	1	3	22.07	22.06	22.09	
1.4	64QAM	1	5	22.18	22.13	22.19	
1.4	64QAM	3	0	22.15	22.12	22.11	
1.4	64QAM	3	1	22.13	22.07	22.12	
1.4	64QAM	3	3	22.10	22.01	22.06	
1.4	64QAM	6	0	21.49	21.44	21.43	22.1
1.4	256QAM	1	0	19.12	19.14	19.11	20.1
1.4	256QAM	1	3	19.24	19.23	19.22	
1.4	256QAM	1	5	19.05	19.13	19.07	
1.4	256QAM	3	0	18.87	18.88	18.84	
1.4	256QAM	3	1	18.95	19.04	19.02	
1.4	256QAM	3	3	18.99	19.03	18.97	
1.4	256QAM	6	0	19.00	18.98	18.93	20.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	21.20	21.21	21.13	22.5
20	QPSK	1	49	21.13	21.01	20.96	
20	QPSK	1	99	21.06	20.99	20.91	
20	QPSK	50	0	21.29	21.30	21.20	22.5
20	QPSK	50	24	21.26	21.21	21.15	
20	QPSK	50	50	21.23	21.15	21.11	
20	QPSK	100	0	21.24	21.17	21.13	22.5
20	16QAM	1	0	21.38	21.48	21.37	
20	16QAM	1	49	21.23	21.19	21.21	
20	16QAM	1	99	21.32	21.27	21.18	22.5
20	16QAM	50	0	21.27	21.20	21.16	
20	16QAM	50	24	21.20	21.16	21.10	
20	16QAM	50	50	21.16	21.12	21.07	22.5
20	16QAM	100	0	21.17	21.11	21.09	
20	64QAM	1	0	21.27	21.35	21.27	
20	64QAM	1	49	21.13	21.13	21.20	22.5
20	64QAM	1	99	21.14	21.18	21.13	
20	64QAM	50	0	21.09	21.01	20.98	
20	64QAM	50	24	21.04	21.00	20.94	22.2
20	64QAM	50	50	20.97	20.93	20.90	
20	64QAM	100	0	20.96	20.90	20.87	
20	256QAM	1	0	19.39	19.30	19.32	20.2
20	256QAM	1	49	18.83	18.93	18.92	
20	256QAM	1	99	18.81	18.96	18.87	
20	256QAM	50	0	19.09	19.11	19.05	20.2
20	256QAM	50	24	18.85	18.86	18.89	
20	256QAM	50	50	18.80	18.92	18.83	
20	256QAM	100	0	19.04	19.05	19.06	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	21.16	21.10	21.06	22.5
15	QPSK	1	37	21.06	20.99	20.92	
15	QPSK	1	74	20.98	20.98	20.96	
15	QPSK	36	0	21.23	21.24	21.18	22.5
15	QPSK	36	20	21.20	21.12	21.07	
15	QPSK	36	39	21.21	21.12	21.04	
15	QPSK	75	0	21.18	21.10	21.02	22.5
15	16QAM	1	0	21.31	21.46	21.26	
15	16QAM	1	37	21.19	21.18	21.17	
15	16QAM	1	74	21.22	21.23	21.07	22.5
15	16QAM	36	0	21.24	21.13	21.09	
15	16QAM	36	20	21.16	21.15	21.02	
15	16QAM	36	39	21.08	21.11	21.02	22.5
15	16QAM	75	0	21.13	21.10	21.07	
15	64QAM	1	0	21.26	21.34	21.21	
15	64QAM	1	37	21.05	21.03	21.11	22.5
15	64QAM	1	74	21.08	21.16	21.02	
15	64QAM	36	0	20.99	20.99	20.88	
15	64QAM	36	20	21.03	20.96	20.84	22.2
15	64QAM	36	39	20.86	20.83	20.87	
15	64QAM	75	0	20.85	20.88	20.77	
15	256QAM	1	0	19.38	19.21	19.30	20.2
15	256QAM	1	37	18.81	18.91	18.87	
15	256QAM	1	74	18.70	18.93	18.76	
15	256QAM	36	0	19.00	19.02	19.00	20.2
15	256QAM	36	20	18.80	18.84	18.87	
15	256QAM	36	39	18.76	18.81	18.76	



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15	256QAM	75	0	18.98	19.01	18.99	Tune-up limit (dBm)
Channel				133172	133297	133422	
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	21.18	21.18	21.05	22.5
10	QPSK	1	25	21.02	20.93	20.96	
10	QPSK	1	49	21.02	20.97	20.96	
10	QPSK	25	0	21.24	21.24	21.18	22.5
10	QPSK	25	12	21.19	21.18	21.11	
10	QPSK	25	25	21.13	21.09	21.08	
10	QPSK	50	0	21.15	21.06	21.10	22.5
10	16QAM	1	0	21.35	21.46	21.36	
10	16QAM	1	25	21.16	21.11	21.19	
10	16QAM	1	49	21.21	21.26	21.07	22.5
10	16QAM	25	0	21.17	21.09	21.11	
10	16QAM	25	12	21.15	21.15	21.05	
10	16QAM	25	25	21.05	21.04	20.97	22.5
10	16QAM	50	0	21.09	21.09	21.00	
10	64QAM	1	0	21.21	21.32	21.22	
10	64QAM	1	25	21.11	21.09	21.14	22.5
10	64QAM	1	49	21.11	21.13	21.11	
10	64QAM	25	0	21.08	20.99	20.87	
10	64QAM	25	12	20.94	20.99	20.87	22.2
10	64QAM	25	25	20.96	20.85	20.88	
10	64QAM	50	0	20.85	20.80	20.76	
10	256QAM	1	0	19.29	19.25	19.25	20.2
10	256QAM	1	25	18.74	18.85	18.88	
10	256QAM	1	49	18.70	18.90	18.76	
10	256QAM	25	0	19.06	19.06	19.03	20.2
10	256QAM	25	12	18.79	18.78	18.84	
10	256QAM	25	25	18.69	18.82	18.74	
10	256QAM	50	0	19.03	18.95	19.04	Tune-up limit (dBm)
Channel				133147	133297	133447	
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	21.16	21.10	21.12	22.5
5	QPSK	1	12	21.07	20.97	20.90	
5	QPSK	1	24	20.95	20.98	20.97	
5	QPSK	12	0	21.23	21.18	21.12	22.5
5	QPSK	12	7	21.21	21.17	21.14	
5	QPSK	12	13	21.14	21.05	21.01	
5	QPSK	25	0	21.19	21.07	21.07	22.5
5	16QAM	1	0	21.28	21.37	21.33	
5	16QAM	1	12	21.21	21.15	21.16	
5	16QAM	1	24	21.22	21.22	21.10	22.5
5	16QAM	12	0	21.20	21.15	21.07	
5	16QAM	12	7	21.12	21.09	21.05	
5	16QAM	12	13	21.05	21.05	21.05	22.5
5	16QAM	25	0	21.15	21.01	20.98	
5	64QAM	1	0	21.20	21.29	21.24	
5	64QAM	1	12	21.09	21.07	21.19	22.5
5	64QAM	1	24	21.10	21.17	21.05	
5	64QAM	12	0	21.02	20.90	20.91	
5	64QAM	12	7	21.03	20.93	20.84	22.2
5	64QAM	12	13	20.86	20.92	20.87	
5	64QAM	25	0	20.92	20.87	20.81	
5	256QAM	1	0	19.28	19.22	19.28	20.2
5	256QAM	1	12	18.82	18.82	18.85	
5	256QAM	1	24	18.76	18.86	18.85	
5	256QAM	12	0	19.04	19.05	18.97	20.2
5	256QAM	12	7	18.75	18.81	18.87	
5	256QAM	12	13	18.75	18.85	18.78	
5	256QAM	25	0	19.03	19.01	18.97	



<LTE Band 71_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	19.15	19.16	19.05	20.3
20	QPSK	1	49	18.93	18.91	18.83	
20	QPSK	1	99	18.95	18.94	18.86	
20	QPSK	50	0	19.22	19.23	19.11	20.3
20	QPSK	50	24	19.16	19.13	19.07	
20	QPSK	50	50	19.11	19.10	19.02	
20	QPSK	100	0	19.14	19.15	19.05	
20	16QAM	1	0	19.43	19.48	19.32	20.3
20	16QAM	1	49	19.30	19.32	19.20	
20	16QAM	1	99	19.25	19.26	19.15	
20	16QAM	50	0	19.21	19.16	19.07	20.3
20	16QAM	50	24	19.14	19.10	19.03	
20	16QAM	50	50	19.08	19.07	19.02	
20	16QAM	100	0	19.10	19.07	19.01	
20	64QAM	1	0	19.30	19.32	19.25	20.3
20	64QAM	1	49	19.18	19.11	19.18	
20	64QAM	1	99	19.14	19.13	19.10	
20	64QAM	50	0	19.21	19.19	19.09	20.3
20	64QAM	50	24	19.12	19.14	19.07	
20	64QAM	50	50	19.08	19.09	19.02	
20	64QAM	100	0	19.11	19.07	19.01	
20	256QAM	1	0	19.12	19.11	18.97	20.2
20	256QAM	1	49	18.85	18.87	18.76	
20	256QAM	1	99	18.87	18.88	18.81	
20	256QAM	50	0	19.15	19.12	19.03	20.2
20	256QAM	50	24	19.08	19.08	19.05	
20	256QAM	50	50	19.09	19.04	18.94	
20	256QAM	100	0	19.12	19.06	18.97	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	19.07	19.08	18.95	20.3
15	QPSK	1	37	18.84	18.81	18.78	
15	QPSK	1	74	18.86	18.88	18.75	
15	QPSK	36	0	19.15	19.14	19.01	20.3
15	QPSK	36	20	19.08	19.05	19.02	
15	QPSK	36	39	19.00	18.99	18.91	
15	QPSK	75	0	19.07	19.04	18.94	
15	16QAM	1	0	19.35	19.41	19.27	20.3
15	16QAM	1	37	19.25	19.22	19.13	
15	16QAM	1	74	19.15	19.15	19.08	
15	16QAM	36	0	19.13	19.07	18.95	20.3
15	16QAM	36	20	19.04	19.03	18.94	
15	16QAM	36	39	19.01	18.96	18.97	
15	16QAM	75	0	19.01	18.99	18.90	
15	64QAM	1	0	19.18	19.24	19.20	20.3
15	64QAM	1	37	19.13	19.05	19.10	
15	64QAM	1	74	19.03	19.05	19.00	
15	64QAM	36	0	19.15	19.13	18.97	20.3
15	64QAM	36	20	19.04	19.03	18.96	
15	64QAM	36	39	18.99	18.97	18.90	
15	64QAM	75	0	19.05	18.96	18.95	
15	256QAM	1	0	19.06	19.02	18.86	20.2
15	256QAM	1	37	18.76	18.81	18.69	
15	256QAM	1	74	18.81	18.83	18.71	
15	256QAM	36	0	19.05	19.04	18.97	20.2
15	256QAM	36	20	19.03	19.00	18.98	
15	256QAM	36	39	18.98	18.92	18.87	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	19.00	18.94	18.91	Tune-up limit (dBm)
Channel				133172	133297	133422	
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	19.05	19.10	18.94	20.3
10	QPSK	1	25	18.81	18.86	18.73	
10	QPSK	1	49	18.83	18.83	18.79	
10	QPSK	25	0	19.12	19.11	19.02	20.3
10	QPSK	25	12	19.09	19.07	19.02	
10	QPSK	25	25	19.03	19.02	18.97	
10	QPSK	50	0	19.08	19.06	18.99	
10	16QAM	1	0	19.31	19.39	19.22	20.3
10	16QAM	1	25	19.19	19.23	19.11	
10	16QAM	1	49	19.20	19.21	19.07	
10	16QAM	25	0	19.09	19.07	18.98	20.3
10	16QAM	25	12	19.09	19.01	18.92	
10	16QAM	25	25	18.99	19.02	18.90	
10	16QAM	50	0	18.99	19.00	18.94	
10	64QAM	1	0	19.21	19.24	19.15	20.3
10	64QAM	1	25	19.07	19.06	19.08	
10	64QAM	1	49	19.03	19.07	18.99	
10	64QAM	25	0	19.14	19.08	19.02	20.3
10	64QAM	25	12	19.05	19.08	18.97	
10	64QAM	25	25	18.99	19.01	18.95	
10	64QAM	50	0	18.99	18.95	18.92	
10	256QAM	1	0	19.02	18.99	18.88	20.2
10	256QAM	1	25	18.73	18.75	18.64	
10	256QAM	1	49	18.79	18.83	18.70	
10	256QAM	25	0	19.04	19.01	18.95	20.2
10	256QAM	25	12	18.97	18.98	18.94	
10	256QAM	25	25	19.03	18.97	18.83	
10	256QAM	50	0	19.00	18.98	18.88	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	19.06	19.04	18.93	20.3
5	QPSK	1	12	18.81	18.83	18.74	
5	QPSK	1	24	18.90	18.82	18.81	
5	QPSK	12	0	19.11	19.16	19.03	20.3
5	QPSK	12	7	19.09	19.08	18.96	
5	QPSK	12	13	19.03	18.99	18.91	
5	QPSK	25	0	19.02	19.08	18.98	
5	16QAM	1	0	19.33	19.36	19.25	20.3
5	16QAM	1	12	19.18	19.27	19.09	
5	16QAM	1	24	19.17	19.19	19.09	
5	16QAM	12	0	19.15	19.05	18.97	20.3
5	16QAM	12	7	19.06	19.02	18.95	
5	16QAM	12	13	19.03	18.95	18.97	
5	16QAM	25	0	19.05	18.99	18.91	
5	64QAM	1	0	19.25	19.22	19.20	20.3
5	64QAM	1	12	19.13	19.06	19.10	
5	64QAM	1	24	19.04	19.05	19.01	
5	64QAM	12	0	19.14	19.13	19.01	20.3
5	64QAM	12	7	19.00	19.04	19.01	
5	64QAM	12	13	19.01	19.04	18.91	
5	64QAM	25	0	19.05	18.95	18.92	
5	256QAM	1	0	19.01	19.04	18.89	20.2
5	256QAM	1	12	18.73	18.82	18.71	
5	256QAM	1	24	18.76	18.76	18.71	
5	256QAM	12	0	19.06	19.06	18.96	20.2
5	256QAM	12	7	18.97	18.99	18.98	
5	256QAM	12	13	19.02	18.94	18.86	
5	256QAM	25	0	19.01	18.95	18.87	

**<LTE Band 71_Ant 1_Index 4>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.74	23.75	23.73	25.2
20	QPSK	1	49	23.71	23.70	23.70	
20	QPSK	1	99	23.61	23.65	23.63	
20	QPSK	50	0	22.85	22.86	22.81	24.2
20	QPSK	50	24	22.84	22.85	22.78	
20	QPSK	50	50	22.83	22.81	22.75	
20	QPSK	100	0	22.74	22.79	22.77	24.2
20	16QAM	1	0	23.01	23.06	23.01	
20	16QAM	1	49	22.84	23.00	23.01	
20	16QAM	1	99	22.92	23.05	22.91	23.2
20	16QAM	50	0	21.88	21.84	21.78	
20	16QAM	50	24	21.83	21.82	21.77	
20	16QAM	50	50	21.80	21.77	21.72	23.2
20	16QAM	100	0	21.78	21.73	21.72	
20	64QAM	1	0	21.90	21.88	21.83	
20	64QAM	1	49	21.89	21.72	21.77	22.2
20	64QAM	1	99	21.86	21.80	21.71	
20	64QAM	50	0	20.90	20.83	20.77	
20	64QAM	50	24	20.90	20.84	20.77	20.2
20	64QAM	50	50	20.84	20.80	20.75	
20	64QAM	100	0	20.82	20.75	20.70	
20	256QAM	1	0	19.40	19.41	19.36	20.2
20	256QAM	1	49	18.91	18.95	18.93	
20	256QAM	1	99	18.89	18.99	18.96	
20	256QAM	50	0	19.14	19.22	19.16	20.2
20	256QAM	50	24	18.87	18.96	18.95	
20	256QAM	50	50	18.91	18.96	18.91	
20	256QAM	100	0	19.07	19.13	19.10	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.69	23.74	23.71	25.2
15	QPSK	1	37	23.65	23.60	23.65	
15	QPSK	1	74	23.52	23.60	23.54	
15	QPSK	36	0	22.79	22.84	22.75	24.2
15	QPSK	36	20	22.76	22.75	22.71	
15	QPSK	36	39	22.75	22.76	22.74	
15	QPSK	75	0	22.72	22.72	22.69	24.2
15	16QAM	1	0	23.03	23.08	22.95	
15	16QAM	1	37	23.09	23.01	23.02	
15	16QAM	1	74	22.94	23.02	22.94	23.2
15	16QAM	36	0	21.86	21.81	21.74	
15	16QAM	36	20	21.83	21.80	21.73	
15	16QAM	36	39	21.79	21.77	21.70	23.2
15	16QAM	75	0	21.83	21.78	21.70	
15	64QAM	1	0	21.93	21.92	21.87	
15	64QAM	1	37	21.94	21.83	21.77	22.2
15	64QAM	1	74	21.87	21.87	21.79	
15	64QAM	36	0	20.84	20.78	20.74	
15	64QAM	36	20	20.80	20.76	20.70	20.2
15	64QAM	36	39	20.78	20.77	20.69	
15	64QAM	75	0	20.81	20.77	20.68	
15	256QAM	1	0	19.39	19.39	19.33	20.2
15	256QAM	1	37	18.85	18.93	18.85	
15	256QAM	1	74	18.84	18.90	18.90	
15	256QAM	36	0	19.08	19.19	19.11	20.2
15	256QAM	36	20	18.87	18.90	18.91	
15	256QAM	36	39	18.91	18.92	18.87	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	19.03	19.13	19.02	Tune-up limit (dBm)
Channel				133172	133297	133422	
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	23.66	23.68	23.65	25.2
10	QPSK	1	25	23.68	23.65	23.69	
10	QPSK	1	49	23.55	23.56	23.60	
10	QPSK	25	0	22.79	22.82	22.77	24.2
10	QPSK	25	12	22.83	22.82	22.75	
10	QPSK	25	25	22.81	22.72	22.73	
10	QPSK	50	0	22.73	22.69	22.70	
10	16QAM	1	0	23.01	23.05	23.01	24.2
10	16QAM	1	25	22.98	23.01	22.90	
10	16QAM	1	49	23.01	22.99	22.87	
10	16QAM	25	0	21.91	21.85	21.74	23.2
10	16QAM	25	12	21.88	21.81	21.75	
10	16QAM	25	25	21.87	21.80	21.72	
10	16QAM	50	0	21.88	21.80	21.71	
10	64QAM	1	0	21.95	21.84	21.88	23.2
10	64QAM	1	25	22.02	21.80	21.89	
10	64QAM	1	49	22.04	21.95	21.86	
10	64QAM	25	0	20.83	20.79	20.70	22.2
10	64QAM	25	12	20.84	20.79	20.69	
10	64QAM	25	25	20.86	20.75	20.69	
10	64QAM	50	0	20.91	20.80	20.73	
10	256QAM	1	0	19.37	19.31	19.29	20.2
10	256QAM	1	25	18.82	18.91	18.89	
10	256QAM	1	49	18.88	18.92	18.91	
10	256QAM	25	0	19.08	19.21	19.09	20.2
10	256QAM	25	12	18.87	18.88	18.87	
10	256QAM	25	25	18.85	18.96	18.83	
10	256QAM	50	0	19.06	19.11	19.03	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	23.73	23.66	23.65	25.2
5	QPSK	1	12	23.70	23.62	23.69	
5	QPSK	1	24	23.52	23.63	23.55	
5	QPSK	12	0	22.83	22.80	22.74	24.2
5	QPSK	12	7	22.83	22.83	22.73	
5	QPSK	12	13	22.76	22.76	22.67	
5	QPSK	25	0	22.64	22.74	22.69	
5	16QAM	1	0	23.08	23.05	23.03	24.2
5	16QAM	1	12	23.09	23.03	23.07	
5	16QAM	1	24	23.07	23.03	23.06	
5	16QAM	12	0	21.84	21.79	21.75	23.2
5	16QAM	12	7	21.85	21.80	21.76	
5	16QAM	12	13	21.85	21.79	21.75	
5	16QAM	25	0	21.90	21.82	21.75	
5	64QAM	1	0	21.93	21.81	21.85	23.2
5	64QAM	1	12	21.83	21.85	21.80	
5	64QAM	1	24	21.92	21.91	21.79	
5	64QAM	12	0	20.78	20.73	20.68	22.2
5	64QAM	12	7	20.80	20.76	20.68	
5	64QAM	12	13	20.80	20.76	20.67	
5	64QAM	25	0	20.82	20.77	20.68	
5	256QAM	1	0	19.30	19.32	19.30	20.2
5	256QAM	1	12	18.91	18.89	18.90	
5	256QAM	1	24	18.79	18.97	18.96	
5	256QAM	12	0	19.11	19.18	19.06	20.2
5	256QAM	12	7	18.86	18.87	18.93	
5	256QAM	12	13	18.91	18.87	18.89	
5	256QAM	25	0	19.05	19.03	19.09	



<LTE Band 71_Ant 1_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.74	23.75	23.73	25.2
20	QPSK	1	49	23.71	23.70	23.70	
20	QPSK	1	99	23.61	23.65	23.63	
20	QPSK	50	0	22.85	22.86	22.81	24.2
20	QPSK	50	24	22.84	22.85	22.78	
20	QPSK	50	50	22.83	22.81	22.75	
20	QPSK	100	0	22.74	22.79	22.77	24.2
20	16QAM	1	0	23.01	23.06	23.01	
20	16QAM	1	49	22.84	23.00	23.01	
20	16QAM	1	99	22.92	23.05	22.91	23.2
20	16QAM	50	0	21.88	21.84	21.78	
20	16QAM	50	24	21.83	21.82	21.77	
20	16QAM	50	50	21.80	21.77	21.72	23.2
20	16QAM	100	0	21.78	21.73	21.72	
20	64QAM	1	0	21.90	21.88	21.83	
20	64QAM	1	49	21.89	21.72	21.77	22.2
20	64QAM	1	99	21.86	21.80	21.71	
20	64QAM	50	0	20.90	20.83	20.77	
20	64QAM	50	24	20.90	20.84	20.77	20.2
20	64QAM	50	50	20.84	20.80	20.75	
20	64QAM	100	0	20.82	20.75	20.70	
20	256QAM	1	0	19.40	19.41	19.36	20.2
20	256QAM	1	49	18.91	18.95	18.93	
20	256QAM	1	99	18.89	18.99	18.96	
20	256QAM	50	0	19.14	19.22	19.16	20.2
20	256QAM	50	24	18.87	18.96	18.95	
20	256QAM	50	50	18.91	18.96	18.91	
20	256QAM	100	0	19.07	19.13	19.10	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.69	23.74	23.71	25.2
15	QPSK	1	37	23.65	23.60	23.65	
15	QPSK	1	74	23.52	23.60	23.54	
15	QPSK	36	0	22.79	22.84	22.75	24.2
15	QPSK	36	20	22.76	22.75	22.71	
15	QPSK	36	39	22.75	22.76	22.74	
15	QPSK	75	0	22.72	22.72	22.69	24.2
15	16QAM	1	0	23.03	23.08	22.95	
15	16QAM	1	37	23.09	23.01	23.02	
15	16QAM	1	74	22.94	23.02	22.94	23.2
15	16QAM	36	0	21.86	21.81	21.74	
15	16QAM	36	20	21.83	21.80	21.73	
15	16QAM	36	39	21.79	21.77	21.70	23.2
15	16QAM	75	0	21.83	21.78	21.70	
15	64QAM	1	0	21.93	21.92	21.87	
15	64QAM	1	37	21.94	21.83	21.77	22.2
15	64QAM	1	74	21.87	21.87	21.79	
15	64QAM	36	0	20.84	20.78	20.74	
15	64QAM	36	20	20.80	20.76	20.70	20.2
15	64QAM	36	39	20.78	20.77	20.69	
15	64QAM	75	0	20.81	20.77	20.68	
15	256QAM	1	0	19.39	19.39	19.33	20.2
15	256QAM	1	37	18.85	18.93	18.85	
15	256QAM	1	74	18.84	18.90	18.90	
15	256QAM	36	0	19.08	19.19	19.11	20.2
15	256QAM	36	20	18.87	18.90	18.91	
15	256QAM	36	39	18.91	18.92	18.87	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	19.03	19.13	19.02	Tune-up limit (dBm)
Channel				133172	133297	133422	
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	23.66	23.68	23.65	25.2
10	QPSK	1	25	23.68	23.65	23.69	
10	QPSK	1	49	23.55	23.56	23.60	
10	QPSK	25	0	22.79	22.82	22.77	24.2
10	QPSK	25	12	22.83	22.82	22.75	
10	QPSK	25	25	22.81	22.72	22.73	
10	QPSK	50	0	22.73	22.69	22.70	
10	16QAM	1	0	23.01	23.05	23.01	24.2
10	16QAM	1	25	22.98	23.01	22.90	
10	16QAM	1	49	23.01	22.99	22.87	
10	16QAM	25	0	21.91	21.85	21.74	23.2
10	16QAM	25	12	21.88	21.81	21.75	
10	16QAM	25	25	21.87	21.80	21.72	
10	16QAM	50	0	21.88	21.80	21.71	
10	64QAM	1	0	21.95	21.84	21.88	23.2
10	64QAM	1	25	22.02	21.80	21.89	
10	64QAM	1	49	22.04	21.95	21.86	
10	64QAM	25	0	20.83	20.79	20.70	22.2
10	64QAM	25	12	20.84	20.79	20.69	
10	64QAM	25	25	20.86	20.75	20.69	
10	64QAM	50	0	20.91	20.80	20.73	
10	256QAM	1	0	19.37	19.31	19.29	20.2
10	256QAM	1	25	18.82	18.91	18.89	
10	256QAM	1	49	18.88	18.92	18.91	
10	256QAM	25	0	19.08	19.21	19.09	20.2
10	256QAM	25	12	18.87	18.88	18.87	
10	256QAM	25	25	18.85	18.96	18.83	
10	256QAM	50	0	19.06	19.11	19.03	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	23.73	23.66	23.65	25.2
5	QPSK	1	12	23.70	23.62	23.69	
5	QPSK	1	24	23.52	23.63	23.55	
5	QPSK	12	0	22.83	22.80	22.74	24.2
5	QPSK	12	7	22.83	22.83	22.73	
5	QPSK	12	13	22.76	22.76	22.67	
5	QPSK	25	0	22.64	22.74	22.69	
5	16QAM	1	0	23.08	23.05	23.03	24.2
5	16QAM	1	12	23.09	23.03	23.07	
5	16QAM	1	24	23.07	23.03	23.06	
5	16QAM	12	0	21.84	21.79	21.75	23.2
5	16QAM	12	7	21.85	21.80	21.76	
5	16QAM	12	13	21.85	21.79	21.75	
5	16QAM	25	0	21.90	21.82	21.75	
5	64QAM	1	0	21.93	21.81	21.85	23.2
5	64QAM	1	12	21.83	21.85	21.80	
5	64QAM	1	24	21.92	21.91	21.79	
5	64QAM	12	0	20.78	20.73	20.68	22.2
5	64QAM	12	7	20.80	20.76	20.68	
5	64QAM	12	13	20.80	20.76	20.67	
5	64QAM	25	0	20.82	20.77	20.68	
5	256QAM	1	0	19.30	19.32	19.30	20.2
5	256QAM	1	12	18.91	18.89	18.90	
5	256QAM	1	24	18.79	18.97	18.96	
5	256QAM	12	0	19.11	19.18	19.06	20.2
5	256QAM	12	7	18.86	18.87	18.93	
5	256QAM	12	13	18.91	18.87	18.89	
5	256QAM	25	0	19.05	19.03	19.09	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.74	23.75	23.73	25.2
20	QPSK	1	49	23.71	23.70	23.70	
20	QPSK	1	99	23.61	23.65	23.63	
20	QPSK	50	0	22.85	22.86	22.81	24.2
20	QPSK	50	24	22.84	22.85	22.78	
20	QPSK	50	50	22.83	22.81	22.75	
20	QPSK	100	0	22.74	22.79	22.77	24.2
20	16QAM	1	0	23.01	23.06	23.01	
20	16QAM	1	49	22.84	23.00	23.01	
20	16QAM	1	99	22.92	23.05	22.91	23.2
20	16QAM	50	0	21.88	21.84	21.78	
20	16QAM	50	24	21.83	21.82	21.77	
20	16QAM	50	50	21.80	21.77	21.72	23.2
20	16QAM	100	0	21.78	21.73	21.72	
20	64QAM	1	0	21.90	21.88	21.83	
20	64QAM	1	49	21.89	21.72	21.77	22.2
20	64QAM	1	99	21.86	21.80	21.71	
20	64QAM	50	0	20.90	20.83	20.77	
20	64QAM	50	24	20.90	20.84	20.77	20.2
20	64QAM	50	50	20.84	20.80	20.75	
20	64QAM	100	0	20.82	20.75	20.70	
20	256QAM	1	0	19.40	19.41	19.36	20.2
20	256QAM	1	49	18.91	18.95	18.93	
20	256QAM	1	99	18.89	18.99	18.96	
20	256QAM	50	0	19.14	19.22	19.16	20.2
20	256QAM	50	24	18.87	18.96	18.95	
20	256QAM	50	50	18.91	18.96	18.91	
20	256QAM	100	0	19.07	19.13	19.10	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.69	23.74	23.71	25.2
15	QPSK	1	37	23.65	23.60	23.65	
15	QPSK	1	74	23.52	23.60	23.54	
15	QPSK	36	0	22.79	22.84	22.75	24.2
15	QPSK	36	20	22.76	22.75	22.71	
15	QPSK	36	39	22.75	22.76	22.74	
15	QPSK	75	0	22.72	22.72	22.69	24.2
15	16QAM	1	0	23.03	23.08	22.95	
15	16QAM	1	37	23.09	23.01	23.02	
15	16QAM	1	74	22.94	23.02	22.94	23.2
15	16QAM	36	0	21.86	21.81	21.74	
15	16QAM	36	20	21.83	21.80	21.73	
15	16QAM	36	39	21.79	21.77	21.70	23.2
15	16QAM	75	0	21.83	21.78	21.70	
15	64QAM	1	0	21.93	21.92	21.87	
15	64QAM	1	37	21.94	21.83	21.77	22.2
15	64QAM	1	74	21.87	21.87	21.79	
15	64QAM	36	0	20.84	20.78	20.74	
15	64QAM	36	20	20.80	20.76	20.70	20.2
15	64QAM	36	39	20.78	20.77	20.69	
15	64QAM	75	0	20.81	20.77	20.68	
15	256QAM	1	0	19.39	19.39	19.33	20.2
15	256QAM	1	37	18.85	18.93	18.85	
15	256QAM	1	74	18.84	18.90	18.90	
15	256QAM	36	0	19.08	19.19	19.11	20.2
15	256QAM	36	20	18.87	18.90	18.91	
15	256QAM	36	39	18.91	18.92	18.87	



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15	256QAM	75	0	19.03	19.13	19.02	Tune-up limit (dBm)
Channel				133172	133297	133422	
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	23.66	23.68	23.65	25.2
10	QPSK	1	25	23.68	23.65	23.69	
10	QPSK	1	49	23.55	23.56	23.60	
10	QPSK	25	0	22.79	22.82	22.77	24.2
10	QPSK	25	12	22.83	22.82	22.75	
10	QPSK	25	25	22.81	22.72	22.73	
10	QPSK	50	0	22.73	22.69	22.70	
10	16QAM	1	0	23.01	23.05	23.01	24.2
10	16QAM	1	25	22.98	23.01	22.90	
10	16QAM	1	49	23.01	22.99	22.87	
10	16QAM	25	0	21.91	21.85	21.74	23.2
10	16QAM	25	12	21.88	21.81	21.75	
10	16QAM	25	25	21.87	21.80	21.72	
10	16QAM	50	0	21.88	21.80	21.71	
10	64QAM	1	0	21.95	21.84	21.88	23.2
10	64QAM	1	25	22.02	21.80	21.89	
10	64QAM	1	49	22.04	21.95	21.86	
10	64QAM	25	0	20.83	20.79	20.70	22.2
10	64QAM	25	12	20.84	20.79	20.69	
10	64QAM	25	25	20.86	20.75	20.69	
10	64QAM	50	0	20.91	20.80	20.73	
10	256QAM	1	0	19.37	19.31	19.29	20.2
10	256QAM	1	25	18.82	18.91	18.89	
10	256QAM	1	49	18.88	18.92	18.91	
10	256QAM	25	0	19.08	19.21	19.09	20.2
10	256QAM	25	12	18.87	18.88	18.87	
10	256QAM	25	25	18.85	18.96	18.83	
10	256QAM	50	0	19.06	19.11	19.03	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	23.73	23.66	23.65	25.2
5	QPSK	1	12	23.70	23.62	23.69	
5	QPSK	1	24	23.52	23.63	23.55	
5	QPSK	12	0	22.83	22.80	22.74	24.2
5	QPSK	12	7	22.83	22.83	22.73	
5	QPSK	12	13	22.76	22.76	22.67	
5	QPSK	25	0	22.64	22.74	22.69	
5	16QAM	1	0	23.08	23.05	23.03	24.2
5	16QAM	1	12	23.09	23.03	23.07	
5	16QAM	1	24	23.07	23.03	23.06	
5	16QAM	12	0	21.84	21.79	21.75	23.2
5	16QAM	12	7	21.85	21.80	21.76	
5	16QAM	12	13	21.85	21.79	21.75	
5	16QAM	25	0	21.90	21.82	21.75	
5	64QAM	1	0	21.93	21.81	21.85	23.2
5	64QAM	1	12	21.83	21.85	21.80	
5	64QAM	1	24	21.92	21.91	21.79	
5	64QAM	12	0	20.78	20.73	20.68	22.2
5	64QAM	12	7	20.80	20.76	20.68	
5	64QAM	12	13	20.80	20.76	20.67	
5	64QAM	25	0	20.82	20.77	20.68	
5	256QAM	1	0	19.30	19.32	19.30	20.2
5	256QAM	1	12	18.91	18.89	18.90	
5	256QAM	1	24	18.79	18.97	18.96	
5	256QAM	12	0	19.11	19.18	19.06	20.2
5	256QAM	12	7	18.86	18.87	18.93	
5	256QAM	12	13	18.91	18.87	18.89	
5	256QAM	25	0	19.05	19.03	19.09	

<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.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “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
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Base station simulator was used for LTE output power measurements and SAR testing.

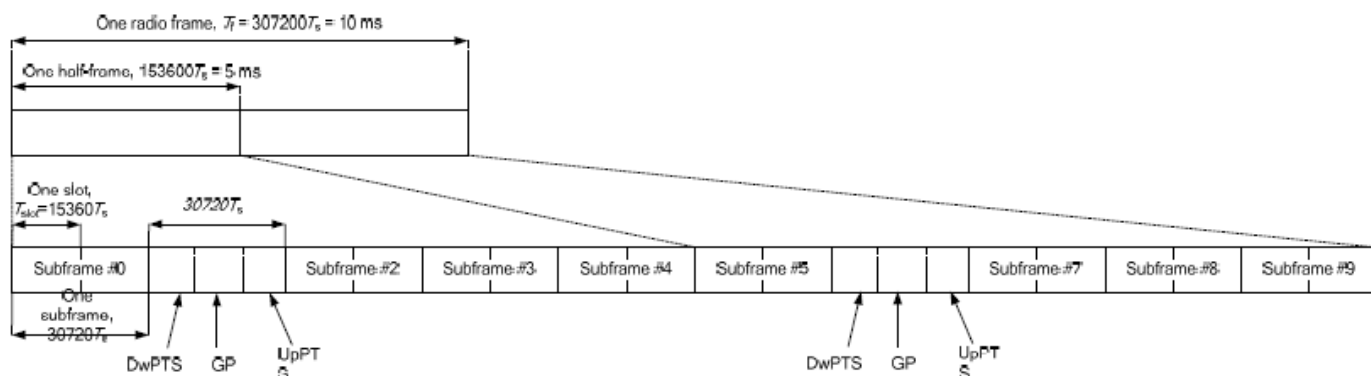


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
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:

- 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.
- vi. The device supports Power Class 3 uplink-downlink configurations 0 and 6, and Power Class 2 uplink-downlink configurations 1 to 5 operations for LTE Band 41.
- vii. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1, for Power Class 3 operation is 63.3% using UL-DL configuration 0. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR among all exposure condition.

**TX0 Output Power**

<LTE Band 38_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.35	24.38	24.36	25.7
20	QPSK	1	49	24.30	24.35	24.33	
20	QPSK	1	99	24.21	24.34	24.32	
20	QPSK	50	0	23.37	23.39	23.38	24.7
20	QPSK	50	24	23.34	23.38	23.35	
20	QPSK	50	50	23.33	23.36	23.34	
20	QPSK	100	0	23.34	23.36	23.35	24.7
20	16QAM	1	0	23.43	23.35	23.49	
20	16QAM	1	49	23.50	23.41	23.58	
20	16QAM	1	99	23.52	23.37	23.44	23.7
20	16QAM	50	0	22.44	22.40	22.40	
20	16QAM	50	24	22.45	22.40	22.37	
20	16QAM	50	50	22.44	22.41	22.38	23.7
20	16QAM	100	0	22.43	22.38	22.42	
20	64QAM	1	0	22.23	22.23	22.26	23.7
20	64QAM	1	49	22.29	22.23	22.27	
20	64QAM	1	99	22.26	22.23	22.18	
20	64QAM	50	0	21.49	21.41	21.42	22.7
20	64QAM	50	24	21.50	21.41	21.41	
20	64QAM	50	50	21.47	21.39	21.39	
20	64QAM	100	0	21.45	21.39	21.38	20.7
20	256QAM	1	0	19.53	19.56	19.53	
20	256QAM	1	49	19.24	19.29	19.29	
20	256QAM	1	99	19.19	19.23	19.19	20.7
20	256QAM	50	0	19.52	19.58	19.55	
20	256QAM	50	24	19.46	19.55	19.48	
20	256QAM	50	50	19.40	19.47	19.40	20.7
20	256QAM	100	0	19.49	19.49	19.44	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.34	24.37	24.35	25.7
15	QPSK	1	37	24.32	24.30	24.31	
15	QPSK	1	74	24.33	24.36	24.34	
15	QPSK	36	0	23.36	23.38	23.37	24.7
15	QPSK	36	20	23.35	23.37	23.34	
15	QPSK	36	39	23.32	23.35	23.33	
15	QPSK	75	0	23.28	23.32	23.26	24.7
15	16QAM	1	0	23.65	23.51	23.40	
15	16QAM	1	37	23.64	23.64	23.52	
15	16QAM	1	74	23.64	23.51	23.39	23.7
15	16QAM	36	0	22.46	22.36	22.37	
15	16QAM	36	20	22.46	22.38	22.39	
15	16QAM	36	39	22.45	22.40	22.37	23.7
15	16QAM	75	0	22.46	22.39	22.41	
15	64QAM	1	0	22.39	22.25	22.25	
15	64QAM	1	37	22.44	22.41	22.36	22.7
15	64QAM	1	74	22.44	22.29	22.20	
15	64QAM	36	0	21.50	21.46	21.42	
15	64QAM	36	20	21.52	21.47	21.44	20.7
15	64QAM	36	39	21.52	21.47	21.44	
15	64QAM	75	0	21.45	21.38	21.38	
15	256QAM	1	0	19.46	19.56	19.49	20.7
15	256QAM	1	37	19.16	19.23	19.23	
15	256QAM	1	74	19.12	19.15	19.18	
15	256QAM	36	0	19.52	19.53	19.46	20.7
15	256QAM	36	20	19.37	19.50	19.46	
15	256QAM	36	39	19.38	19.37	19.39	



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15	256QAM	75	0	19.46	19.45	19.35	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.33	24.34	24.32	25.7
10	QPSK	1	25	24.32	24.29	24.26	
10	QPSK	1	49	24.31	24.30	24.31	
10	QPSK	25	0	23.29	23.31	23.28	24.7
10	QPSK	25	12	23.28	23.29	23.27	
10	QPSK	25	25	23.27	23.25	23.22	
10	QPSK	50	0	23.30	23.33	23.32	
10	16QAM	1	0	23.59	23.50	23.50	24.7
10	16QAM	1	25	23.51	23.49	23.40	
10	16QAM	1	49	23.59	23.54	23.40	
10	16QAM	25	0	22.53	22.44	22.44	23.7
10	16QAM	25	12	22.49	22.47	22.45	
10	16QAM	25	25	22.56	22.48	22.49	
10	16QAM	50	0	22.51	22.43	22.42	
10	64QAM	1	0	22.37	22.29	22.22	23.7
10	64QAM	1	25	22.28	22.19	22.15	
10	64QAM	1	49	22.46	22.35	22.22	
10	64QAM	25	0	21.51	21.42	21.39	22.7
10	64QAM	25	12	21.53	21.42	21.42	
10	64QAM	25	25	21.52	21.44	21.46	
10	64QAM	50	0	21.50	21.44	21.43	
10	256QAM	1	0	19.52	19.46	19.51	20.7
10	256QAM	1	25	19.21	19.21	19.23	
10	256QAM	1	49	19.10	19.20	19.19	
10	256QAM	25	0	19.43	19.52	19.47	20.7
10	256QAM	25	12	19.46	19.45	19.40	
10	256QAM	25	25	19.37	19.45	19.39	
10	256QAM	50	0	19.43	19.41	19.34	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.32	24.37	24.30	25.7
5	QPSK	1	12	24.28	24.35	24.23	
5	QPSK	1	24	24.26	24.32	24.20	
5	QPSK	12	0	23.37	23.36	23.30	24.7
5	QPSK	12	7	23.29	23.37	23.30	
5	QPSK	12	13	23.30	23.30	23.21	
5	QPSK	25	0	23.27	23.20	23.29	
5	16QAM	1	0	23.59	23.60	23.53	24.7
5	16QAM	1	12	23.74	23.63	23.68	
5	16QAM	1	24	23.62	23.57	23.55	
5	16QAM	12	0	22.46	22.37	22.35	23.7
5	16QAM	12	7	22.43	22.36	22.32	
5	16QAM	12	13	22.45	22.37	22.36	
5	16QAM	25	0	22.51	22.47	22.44	
5	64QAM	1	0	22.32	22.39	22.14	23.7
5	64QAM	1	12	22.50	22.49	22.31	
5	64QAM	1	24	22.38	22.34	22.20	
5	64QAM	12	0	21.48	21.42	21.39	22.7
5	64QAM	12	7	21.54	21.41	21.39	
5	64QAM	12	13	21.49	21.45	21.37	
5	64QAM	25	0	21.50	21.40	21.37	
5	256QAM	1	0	19.46	19.52	19.44	20.7
5	256QAM	1	12	19.16	19.20	19.21	
5	256QAM	1	24	19.12	19.18	19.18	
5	256QAM	12	0	19.46	19.58	19.50	20.7
5	256QAM	12	7	19.41	19.49	19.48	
5	256QAM	12	13	19.35	19.43	19.40	
5	256QAM	25	0	19.40	19.48	19.37	



<LTE Band 38_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.35	24.38	24.36	
20	QPSK	1	49	24.30	24.35	24.33	25
20	QPSK	1	99	24.21	24.34	24.32	24.7
20	QPSK	50	0	23.37	23.39	23.38	
20	QPSK	50	24	23.34	23.38	23.35	
20	QPSK	50	50	23.33	23.36	23.34	
20	QPSK	100	0	23.34	23.36	23.35	24.7
20	16QAM	1	0	23.43	23.35	23.49	
20	16QAM	1	49	23.50	23.41	23.58	
20	16QAM	1	99	23.52	23.37	23.44	
20	16QAM	50	0	22.44	22.40	22.40	23.7
20	16QAM	50	24	22.45	22.40	22.37	
20	16QAM	50	50	22.44	22.41	22.38	
20	16QAM	100	0	22.43	22.38	22.42	
20	64QAM	1	0	22.23	22.23	22.26	23.7
20	64QAM	1	49	22.29	22.23	22.27	
20	64QAM	1	99	22.26	22.23	22.18	
20	64QAM	50	0	21.49	21.41	21.42	
20	64QAM	50	24	21.50	21.41	21.41	22.7
20	64QAM	50	50	21.47	21.39	21.39	
20	64QAM	100	0	21.45	21.39	21.38	
20	256QAM	1	0	19.53	19.56	19.53	
20	256QAM	1	49	19.24	19.29	19.29	20.7
20	256QAM	1	99	19.19	19.23	19.19	20.7
20	256QAM	50	0	19.52	19.58	19.55	
20	256QAM	50	24	19.46	19.55	19.48	
20	256QAM	50	50	19.40	19.47	19.40	
20	256QAM	100	0	19.49	19.49	19.44	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.34	24.37	24.35	
15	QPSK	1	37	24.32	24.30	24.31	25
15	QPSK	1	74	24.33	24.36	24.34	24.7
15	QPSK	36	0	23.36	23.38	23.37	
15	QPSK	36	20	23.35	23.37	23.34	
15	QPSK	36	39	23.32	23.35	23.33	
15	QPSK	75	0	23.28	23.32	23.26	24.7
15	16QAM	1	0	23.65	23.51	23.40	
15	16QAM	1	37	23.64	23.64	23.52	
15	16QAM	1	74	23.64	23.51	23.39	
15	16QAM	36	0	22.46	22.36	22.37	23.7
15	16QAM	36	20	22.46	22.38	22.39	
15	16QAM	36	39	22.45	22.40	22.37	
15	16QAM	75	0	22.46	22.39	22.41	
15	64QAM	1	0	22.39	22.25	22.25	23.7
15	64QAM	1	37	22.44	22.41	22.36	
15	64QAM	1	74	22.44	22.29	22.20	
15	64QAM	36	0	21.50	21.46	21.42	
15	64QAM	36	20	21.52	21.47	21.44	22.7
15	64QAM	36	39	21.52	21.47	21.44	
15	64QAM	75	0	21.45	21.38	21.38	
15	256QAM	1	0	19.46	19.56	19.49	
15	256QAM	1	37	19.16	19.23	19.23	20.7
15	256QAM	1	74	19.12	19.15	19.18	
15	256QAM	36	0	19.52	19.53	19.46	
15	256QAM	36	20	19.37	19.50	19.46	
15	256QAM	36	39	19.38	19.37	19.39	20.7



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	19.46	19.45	19.35	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.33	24.34	24.32	25
10	QPSK	1	25	24.32	24.29	24.26	
10	QPSK	1	49	24.31	24.30	24.31	
10	QPSK	25	0	23.29	23.31	23.28	24.7
10	QPSK	25	12	23.28	23.29	23.27	
10	QPSK	25	25	23.27	23.25	23.22	
10	QPSK	50	0	23.30	23.33	23.32	24.7
10	16QAM	1	0	23.59	23.50	23.50	
10	16QAM	1	25	23.51	23.49	23.40	
10	16QAM	1	49	23.59	23.54	23.40	23.7
10	16QAM	25	0	22.53	22.44	22.44	
10	16QAM	25	12	22.49	22.47	22.45	
10	16QAM	25	25	22.56	22.48	22.49	23.7
10	16QAM	50	0	22.51	22.43	22.42	
10	64QAM	1	0	22.37	22.29	22.22	
10	64QAM	1	25	22.28	22.19	22.15	23.7
10	64QAM	1	49	22.46	22.35	22.22	
10	64QAM	25	0	21.51	21.42	21.39	
10	64QAM	25	12	21.53	21.42	21.42	22.7
10	64QAM	25	25	21.52	21.44	21.46	
10	64QAM	50	0	21.50	21.44	21.43	
10	256QAM	1	0	19.52	19.46	19.51	20.7
10	256QAM	1	25	19.21	19.21	19.23	
10	256QAM	1	49	19.10	19.20	19.19	
10	256QAM	25	0	19.43	19.52	19.47	20.7
10	256QAM	25	12	19.46	19.45	19.40	
10	256QAM	25	25	19.37	19.45	19.39	
10	256QAM	50	0	19.43	19.41	19.34	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.32	24.37	24.30	25
5	QPSK	1	12	24.28	24.35	24.23	
5	QPSK	1	24	24.26	24.32	24.20	
5	QPSK	12	0	23.37	23.36	23.30	24.7
5	QPSK	12	7	23.29	23.37	23.30	
5	QPSK	12	13	23.30	23.30	23.21	
5	QPSK	25	0	23.27	23.20	23.29	24.7
5	16QAM	1	0	23.59	23.60	23.53	
5	16QAM	1	12	23.74	23.63	23.68	
5	16QAM	1	24	23.62	23.57	23.55	23.7
5	16QAM	12	0	22.46	22.37	22.35	
5	16QAM	12	7	22.43	22.36	22.32	
5	16QAM	12	13	22.45	22.37	22.36	23.7
5	16QAM	25	0	22.51	22.47	22.44	
5	64QAM	1	0	22.32	22.39	22.14	
5	64QAM	1	12	22.50	22.49	22.31	23.7
5	64QAM	1	24	22.38	22.34	22.20	
5	64QAM	12	0	21.48	21.42	21.39	
5	64QAM	12	7	21.54	21.41	21.39	22.7
5	64QAM	12	13	21.49	21.45	21.37	
5	64QAM	25	0	21.50	21.40	21.37	
5	256QAM	1	0	19.46	19.52	19.44	20.7
5	256QAM	1	12	19.16	19.20	19.21	
5	256QAM	1	24	19.12	19.18	19.18	
5	256QAM	12	0	19.46	19.58	19.50	20.7
5	256QAM	12	7	19.41	19.49	19.48	
5	256QAM	12	13	19.35	19.43	19.40	
5	256QAM	25	0	19.40	19.48	19.37	



<LTE Band 38_Ant 2_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.55	22.51	22.58	
20	QPSK	1	49	22.48	22.45	22.52	23.3
20	QPSK	1	99	22.49	22.44	22.54	
20	QPSK	50	0	22.53	22.47	22.54	
20	QPSK	50	24	22.49	22.45	22.54	23.3
20	QPSK	50	50	22.48	22.44	22.52	
20	QPSK	100	0	22.51	22.43	22.51	
20	16QAM	1	0	22.62	22.59	22.67	23.3
20	16QAM	1	49	22.54	22.55	22.61	
20	16QAM	1	99	22.59	22.58	22.59	
20	16QAM	50	0	22.52	22.51	22.56	23.3
20	16QAM	50	24	22.51	22.50	22.55	
20	16QAM	50	50	22.51	22.47	22.53	
20	16QAM	100	0	22.51	22.48	22.55	23.3
20	64QAM	1	0	22.46	22.39	22.36	
20	64QAM	1	49	22.38	22.37	22.35	
20	64QAM	1	99	22.38	22.35	22.38	22.7
20	64QAM	50	0	21.56	21.52	21.56	
20	64QAM	50	24	21.54	21.52	21.55	
20	64QAM	50	50	21.53	21.48	21.53	20.7
20	64QAM	100	0	21.54	21.48	21.54	
20	256QAM	1	0	19.44	19.54	19.53	
20	256QAM	1	49	19.18	19.28	19.21	20.7
20	256QAM	1	99	19.11	19.15	19.19	
20	256QAM	50	0	19.52	19.51	19.54	
20	256QAM	50	24	19.46	19.47	19.42	20.7
20	256QAM	50	50	19.34	19.45	19.31	
20	256QAM	100	0	19.40	19.43	19.37	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.47	22.48	22.51	
15	QPSK	1	37	22.39	22.39	22.46	23.3
15	QPSK	1	74	22.46	22.42	22.44	
15	QPSK	36	0	22.52	22.37	22.50	
15	QPSK	36	20	22.49	22.43	22.46	23.3
15	QPSK	36	39	22.45	22.34	22.51	
15	QPSK	75	0	22.41	22.36	22.49	
15	16QAM	1	0	22.55	22.55	22.66	23.3
15	16QAM	1	37	22.51	22.53	22.52	
15	16QAM	1	74	22.49	22.49	22.49	
15	16QAM	36	0	22.47	22.42	22.48	23.3
15	16QAM	36	20	22.47	22.46	22.51	
15	16QAM	36	39	22.49	22.39	22.47	
15	16QAM	75	0	22.44	22.39	22.45	23.3
15	64QAM	1	0	22.37	22.33	22.34	
15	64QAM	1	37	22.35	22.34	22.32	
15	64QAM	1	74	22.38	22.32	22.38	22.7
15	64QAM	36	0	21.56	21.45	21.46	
15	64QAM	36	20	21.46	21.48	21.46	
15	64QAM	36	39	21.43	21.44	21.49	20.7
15	64QAM	75	0	21.47	21.40	21.46	
15	256QAM	1	0	19.35	19.45	19.53	
15	256QAM	1	37	19.11	19.26	19.13	20.7
15	256QAM	1	74	19.09	19.15	19.11	
15	256QAM	36	0	19.51	19.49	19.54	
15	256QAM	36	20	19.45	19.45	19.39	20.7
15	256QAM	36	39	19.33	19.35	19.25	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	19.31	19.37	19.30	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.46	22.47	22.51	23.3
10	QPSK	1	25	22.46	22.43	22.50	
10	QPSK	1	49	22.41	22.41	22.48	
10	QPSK	25	0	22.45	22.42	22.50	23.3
10	QPSK	25	12	22.48	22.45	22.51	
10	QPSK	25	25	22.39	22.41	22.45	
10	QPSK	50	0	22.51	22.39	22.51	23.3
10	16QAM	1	0	22.60	22.58	22.63	
10	16QAM	1	25	22.49	22.49	22.53	
10	16QAM	1	49	22.58	22.54	22.50	23.3
10	16QAM	25	0	22.48	22.48	22.49	
10	16QAM	25	12	22.50	22.45	22.46	
10	16QAM	25	25	22.42	22.47	22.46	23.3
10	16QAM	50	0	22.42	22.38	22.52	
10	64QAM	1	0	22.45	22.34	22.26	
10	64QAM	1	25	22.30	22.30	22.34	23.3
10	64QAM	1	49	22.38	22.27	22.29	
10	64QAM	25	0	21.54	21.47	21.47	22.7
10	64QAM	25	12	21.54	21.43	21.52	
10	64QAM	25	25	21.47	21.38	21.44	
10	64QAM	50	0	21.48	21.47	21.47	20.7
10	256QAM	1	0	19.37	19.50	19.45	
10	256QAM	1	25	19.18	19.28	19.13	
10	256QAM	1	49	19.04	19.15	19.17	20.7
10	256QAM	25	0	19.46	19.46	19.45	
10	256QAM	25	12	19.42	19.37	19.40	
10	256QAM	25	25	19.29	19.40	19.29	20.7
10	256QAM	50	0	19.32	19.42	19.28	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.45	22.48	22.55	23.3
5	QPSK	1	12	22.39	22.45	22.42	
5	QPSK	1	24	22.39	22.43	22.45	
5	QPSK	12	0	22.50	22.41	22.46	23.3
5	QPSK	12	7	22.49	22.44	22.47	
5	QPSK	12	13	22.47	22.34	22.46	
5	QPSK	25	0	22.44	22.39	22.47	23.3
5	16QAM	1	0	22.52	22.57	22.60	
5	16QAM	1	12	22.44	22.51	22.53	
5	16QAM	1	24	22.57	22.58	22.52	23.3
5	16QAM	12	0	22.44	22.49	22.46	
5	16QAM	12	7	22.47	22.50	22.54	
5	16QAM	12	13	22.41	22.40	22.53	23.3
5	16QAM	25	0	22.50	22.48	22.50	
5	64QAM	1	0	22.39	22.34	22.35	
5	64QAM	1	12	22.33	22.34	22.30	23.3
5	64QAM	1	24	22.31	22.29	22.28	
5	64QAM	12	0	21.50	21.43	21.54	22.7
5	64QAM	12	7	21.45	21.46	21.54	
5	64QAM	12	13	21.51	21.44	21.44	
5	64QAM	25	0	21.46	21.38	21.53	20.7
5	256QAM	1	0	19.37	19.48	19.47	
5	256QAM	1	12	19.09	19.19	19.21	
5	256QAM	1	24	19.04	19.12	19.11	20.7
5	256QAM	12	0	19.50	19.45	19.45	
5	256QAM	12	7	19.43	19.37	19.38	
5	256QAM	12	13	19.29	19.35	19.21	20.7
5	256QAM	25	0	19.38	19.37	19.31	



<LTE Band 38_Ant 2_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.55	22.51	22.58	23.7
20	QPSK	1	49	22.48	22.45	22.52	
20	QPSK	1	99	22.49	22.44	22.54	
20	QPSK	50	0	22.53	22.47	22.54	23.7
20	QPSK	50	24	22.49	22.45	22.54	
20	QPSK	50	50	22.48	22.44	22.52	
20	QPSK	100	0	22.51	22.43	22.51	23.7
20	16QAM	1	0	22.62	22.59	22.67	
20	16QAM	1	49	22.54	22.55	22.61	
20	16QAM	1	99	22.59	22.58	22.59	23.7
20	16QAM	50	0	22.52	22.51	22.56	
20	16QAM	50	24	22.51	22.50	22.55	
20	16QAM	50	50	22.51	22.47	22.53	23.7
20	16QAM	100	0	22.51	22.48	22.55	
20	64QAM	1	0	22.46	22.39	22.36	
20	64QAM	1	49	22.38	22.37	22.35	23.7
20	64QAM	1	99	22.38	22.35	22.38	
20	64QAM	50	0	21.56	21.52	21.56	
20	64QAM	50	24	21.54	21.52	21.55	22.7
20	64QAM	50	50	21.53	21.48	21.53	
20	64QAM	100	0	21.54	21.48	21.54	
20	256QAM	1	0	19.44	19.54	19.53	20.7
20	256QAM	1	49	19.18	19.28	19.21	
20	256QAM	1	99	19.11	19.15	19.19	
20	256QAM	50	0	19.52	19.51	19.54	20.7
20	256QAM	50	24	19.46	19.47	19.42	
20	256QAM	50	50	19.34	19.45	19.31	
20	256QAM	100	0	19.40	19.43	19.37	Tune-up limit (dBm)
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.47	22.48	22.51	23.7
15	QPSK	1	37	22.39	22.39	22.46	
15	QPSK	1	74	22.46	22.42	22.44	
15	QPSK	36	0	22.52	22.37	22.50	23.7
15	QPSK	36	20	22.49	22.43	22.46	
15	QPSK	36	39	22.45	22.34	22.51	
15	QPSK	75	0	22.41	22.36	22.49	23.7
15	16QAM	1	0	22.55	22.55	22.66	
15	16QAM	1	37	22.51	22.53	22.52	
15	16QAM	1	74	22.49	22.49	22.49	23.7
15	16QAM	36	0	22.47	22.42	22.48	
15	16QAM	36	20	22.47	22.46	22.51	
15	16QAM	36	39	22.49	22.39	22.47	23.7
15	16QAM	75	0	22.44	22.39	22.45	
15	64QAM	1	0	22.37	22.33	22.34	
15	64QAM	1	37	22.35	22.34	22.32	23.7
15	64QAM	1	74	22.38	22.32	22.38	
15	64QAM	36	0	21.56	21.45	21.46	
15	64QAM	36	20	21.46	21.48	21.46	22.7
15	64QAM	36	39	21.43	21.44	21.49	
15	64QAM	75	0	21.47	21.40	21.46	
15	256QAM	1	0	19.35	19.45	19.53	20.7
15	256QAM	1	37	19.11	19.26	19.13	
15	256QAM	1	74	19.09	19.15	19.11	
15	256QAM	36	0	19.51	19.49	19.54	20.7
15	256QAM	36	20	19.45	19.45	19.39	
15	256QAM	36	39	19.33	19.35	19.25	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	19.31	19.37	19.30	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.46	22.47	22.51	23.7
10	QPSK	1	25	22.46	22.43	22.50	
10	QPSK	1	49	22.41	22.41	22.48	
10	QPSK	25	0	22.45	22.42	22.50	23.7
10	QPSK	25	12	22.48	22.45	22.51	
10	QPSK	25	25	22.39	22.41	22.45	
10	QPSK	50	0	22.51	22.39	22.51	23.7
10	16QAM	1	0	22.60	22.58	22.63	
10	16QAM	1	25	22.49	22.49	22.53	
10	16QAM	1	49	22.58	22.54	22.50	23.7
10	16QAM	25	0	22.48	22.48	22.49	
10	16QAM	25	12	22.50	22.45	22.46	
10	16QAM	25	25	22.42	22.47	22.46	23.7
10	16QAM	50	0	22.42	22.38	22.52	
10	64QAM	1	0	22.45	22.34	22.26	
10	64QAM	1	25	22.30	22.30	22.34	23.7
10	64QAM	1	49	22.38	22.27	22.29	
10	64QAM	25	0	21.54	21.47	21.47	22.7
10	64QAM	25	12	21.54	21.43	21.52	
10	64QAM	25	25	21.47	21.38	21.44	
10	64QAM	50	0	21.48	21.47	21.47	20.7
10	256QAM	1	0	19.37	19.50	19.45	
10	256QAM	1	25	19.18	19.28	19.13	
10	256QAM	1	49	19.04	19.15	19.17	20.7
10	256QAM	25	0	19.46	19.46	19.45	
10	256QAM	25	12	19.42	19.37	19.40	
10	256QAM	25	25	19.29	19.40	19.29	20.7
10	256QAM	50	0	19.32	19.42	19.28	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.45	22.48	22.55	23.7
5	QPSK	1	12	22.39	22.45	22.42	
5	QPSK	1	24	22.39	22.43	22.45	
5	QPSK	12	0	22.50	22.41	22.46	23.7
5	QPSK	12	7	22.49	22.44	22.47	
5	QPSK	12	13	22.47	22.34	22.46	
5	QPSK	25	0	22.44	22.39	22.47	23.7
5	16QAM	1	0	22.52	22.57	22.60	
5	16QAM	1	12	22.44	22.51	22.53	
5	16QAM	1	24	22.57	22.58	22.52	23.7
5	16QAM	12	0	22.44	22.49	22.46	
5	16QAM	12	7	22.47	22.50	22.54	
5	16QAM	12	13	22.41	22.40	22.53	23.7
5	16QAM	25	0	22.50	22.48	22.50	
5	64QAM	1	0	22.39	22.34	22.35	
5	64QAM	1	12	22.33	22.34	22.30	23.7
5	64QAM	1	24	22.31	22.29	22.28	
5	64QAM	12	0	21.50	21.43	21.54	22.7
5	64QAM	12	7	21.45	21.46	21.54	
5	64QAM	12	13	21.51	21.44	21.44	
5	64QAM	25	0	21.46	21.38	21.53	20.7
5	256QAM	1	0	19.37	19.48	19.47	
5	256QAM	1	12	19.09	19.19	19.21	
5	256QAM	1	24	19.04	19.12	19.11	20.7
5	256QAM	12	0	19.50	19.45	19.45	
5	256QAM	12	7	19.43	19.37	19.38	
5	256QAM	12	13	19.29	19.35	19.21	20.7
5	256QAM	25	0	19.38	19.37	19.31	



<LTE Band 38_Ant 2_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.55	22.51	22.58	23.7
20	QPSK	1	49	22.48	22.45	22.52	
20	QPSK	1	99	22.49	22.44	22.54	
20	QPSK	50	0	22.53	22.47	22.54	23.7
20	QPSK	50	24	22.49	22.45	22.54	
20	QPSK	50	50	22.48	22.44	22.52	
20	QPSK	100	0	22.51	22.43	22.51	23.7
20	16QAM	1	0	22.62	22.59	22.67	
20	16QAM	1	49	22.54	22.55	22.61	
20	16QAM	1	99	22.59	22.58	22.59	23.4
20	16QAM	50	0	22.52	22.51	22.56	
20	16QAM	50	24	22.51	22.50	22.55	
20	16QAM	50	50	22.51	22.47	22.53	23.4
20	16QAM	100	0	22.51	22.48	22.55	
20	64QAM	1	0	22.46	22.39	22.36	
20	64QAM	1	49	22.38	22.37	22.35	22.4
20	64QAM	1	99	22.38	22.35	22.38	
20	64QAM	50	0	21.56	21.52	21.56	
20	64QAM	50	24	21.54	21.52	21.55	20.4
20	64QAM	50	50	21.53	21.48	21.53	
20	64QAM	100	0	21.54	21.48	21.54	
20	256QAM	1	0	19.44	19.54	19.53	20.4
20	256QAM	1	49	19.18	19.28	19.21	
20	256QAM	1	99	19.11	19.15	19.19	
20	256QAM	50	0	19.52	19.51	19.54	20.4
20	256QAM	50	24	19.46	19.47	19.42	
20	256QAM	50	50	19.34	19.45	19.31	
20	256QAM	100	0	19.40	19.43	19.37	23.7
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.47	22.48	22.51	23.7
15	QPSK	1	37	22.39	22.39	22.46	
15	QPSK	1	74	22.46	22.42	22.44	
15	QPSK	36	0	22.52	22.37	22.50	23.7
15	QPSK	36	20	22.49	22.43	22.46	
15	QPSK	36	39	22.45	22.34	22.51	
15	QPSK	75	0	22.41	22.36	22.49	23.7
15	16QAM	1	0	22.55	22.55	22.66	
15	16QAM	1	37	22.51	22.53	22.52	
15	16QAM	1	74	22.49	22.49	22.49	23.4
15	16QAM	36	0	22.47	22.42	22.48	
15	16QAM	36	20	22.47	22.46	22.51	
15	16QAM	36	39	22.49	22.39	22.47	23.4
15	16QAM	75	0	22.44	22.39	22.45	
15	64QAM	1	0	22.37	22.33	22.34	
15	64QAM	1	37	22.35	22.34	22.32	22.4
15	64QAM	1	74	22.38	22.32	22.38	
15	64QAM	36	0	21.56	21.45	21.46	
15	64QAM	36	20	21.46	21.48	21.46	20.4
15	64QAM	36	39	21.43	21.44	21.49	
15	64QAM	75	0	21.47	21.40	21.46	
15	256QAM	1	0	19.35	19.45	19.53	20.4
15	256QAM	1	37	19.11	19.26	19.13	
15	256QAM	1	74	19.09	19.15	19.11	
15	256QAM	36	0	19.51	19.49	19.54	20.4
15	256QAM	36	20	19.45	19.45	19.39	
15	256QAM	36	39	19.33	19.35	19.25	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	19.31	19.37	19.30	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.46	22.47	22.51	23.7
10	QPSK	1	25	22.46	22.43	22.50	
10	QPSK	1	49	22.41	22.41	22.48	
10	QPSK	25	0	22.45	22.42	22.50	23.7
10	QPSK	25	12	22.48	22.45	22.51	
10	QPSK	25	25	22.39	22.41	22.45	
10	QPSK	50	0	22.51	22.39	22.51	23.7
10	16QAM	1	0	22.60	22.58	22.63	
10	16QAM	1	25	22.49	22.49	22.53	
10	16QAM	1	49	22.58	22.54	22.50	23.4
10	16QAM	25	0	22.48	22.48	22.49	
10	16QAM	25	12	22.50	22.45	22.46	
10	16QAM	25	25	22.42	22.47	22.46	23.4
10	16QAM	50	0	22.42	22.38	22.52	
10	64QAM	1	0	22.45	22.34	22.26	
10	64QAM	1	25	22.30	22.30	22.34	22.4
10	64QAM	1	49	22.38	22.27	22.29	
10	64QAM	25	0	21.54	21.47	21.47	
10	64QAM	25	12	21.54	21.43	21.52	20.4
10	64QAM	25	25	21.47	21.38	21.44	
10	64QAM	50	0	21.48	21.47	21.47	
10	256QAM	1	0	19.37	19.50	19.45	20.4
10	256QAM	1	25	19.18	19.28	19.13	
10	256QAM	1	49	19.04	19.15	19.17	
10	256QAM	25	0	19.46	19.46	19.45	20.4
10	256QAM	25	12	19.42	19.37	19.40	
10	256QAM	25	25	19.29	19.40	19.29	
10	256QAM	50	0	19.32	19.42	19.28	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.45	22.48	22.55	23.7
5	QPSK	1	12	22.39	22.45	22.42	
5	QPSK	1	24	22.39	22.43	22.45	
5	QPSK	12	0	22.50	22.41	22.46	23.7
5	QPSK	12	7	22.49	22.44	22.47	
5	QPSK	12	13	22.47	22.34	22.46	
5	QPSK	25	0	22.44	22.39	22.47	23.7
5	16QAM	1	0	22.52	22.57	22.60	
5	16QAM	1	12	22.44	22.51	22.53	
5	16QAM	1	24	22.57	22.58	22.52	23.4
5	16QAM	12	0	22.44	22.49	22.46	
5	16QAM	12	7	22.47	22.50	22.54	
5	16QAM	12	13	22.41	22.40	22.53	23.4
5	16QAM	25	0	22.50	22.48	22.50	
5	64QAM	1	0	22.39	22.34	22.35	
5	64QAM	1	12	22.33	22.34	22.30	22.4
5	64QAM	1	24	22.31	22.29	22.28	
5	64QAM	12	0	21.50	21.43	21.54	
5	64QAM	12	7	21.45	21.46	21.54	20.4
5	64QAM	12	13	21.51	21.44	21.44	
5	64QAM	25	0	21.46	21.38	21.53	
5	256QAM	1	0	19.37	19.48	19.47	20.4
5	256QAM	1	12	19.09	19.19	19.21	
5	256QAM	1	24	19.04	19.12	19.11	
5	256QAM	12	0	19.50	19.45	19.45	20.4
5	256QAM	12	7	19.43	19.37	19.38	
5	256QAM	12	13	19.29	19.35	19.21	
5	256QAM	25	0	19.38	19.37	19.31	



<LTE Band 38_HPUE_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	26.16	26.17	26.16	27.5
20	QPSK	1	49	26.15	26.14	26.15	
20	QPSK	1	99	26.05	26.02	26.04	
20	QPSK	50	0	25.16	25.18	25.12	26.5
20	QPSK	50	24	25.11	25.08	25.08	
20	QPSK	50	50	25.10	25.06	25.11	
20	QPSK	100	0	25.09	25.10	25.07	26.5
20	16QAM	1	0	25.45	25.35	25.47	
20	16QAM	1	49	25.65	25.79	25.78	
20	16QAM	1	99	25.54	25.53	25.48	25.5
20	16QAM	50	0	24.11	24.08	24.06	
20	16QAM	50	24	24.13	24.08	24.07	
20	16QAM	50	50	24.11	24.05	24.10	25.5
20	16QAM	100	0	24.16	24.10	24.12	
20	64QAM	1	0	24.13	24.15	24.15	
20	64QAM	1	49	24.54	24.51	24.50	24.5
20	64QAM	1	99	24.45	24.44	24.35	
20	64QAM	50	0	23.14	23.10	23.12	
20	64QAM	50	24	23.16	23.09	23.08	22.5
20	64QAM	50	50	23.14	23.09	23.12	
20	64QAM	100	0	23.17	23.10	23.10	
20	256QAM	1	0	21.30	21.39	21.33	22.5
20	256QAM	1	49	21.14	21.19	21.09	
20	256QAM	1	99	21.00	21.04	21.01	
20	256QAM	50	0	21.38	21.39	21.36	22.5
20	256QAM	50	24	21.32	21.35	21.30	
20	256QAM	50	50	21.23	21.29	21.21	
20	256QAM	100	0	21.26	21.29	21.25	22.5
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	26.01	25.94	25.97	27.5
15	QPSK	1	37	26.09	26.08	26.11	
15	QPSK	1	74	26.01	25.91	26.01	
15	QPSK	36	0	25.05	25.02	25.03	26.5
15	QPSK	36	20	25.05	24.99	25.06	
15	QPSK	36	39	25.05	25.00	25.04	
15	QPSK	75	0	25.06	24.99	25.04	26.5
15	16QAM	1	0	25.35	25.10	25.31	
15	16QAM	1	37	25.56	25.25	25.46	
15	16QAM	1	74	25.37	25.14	25.28	25.5
15	16QAM	36	0	24.01	23.97	23.97	
15	16QAM	36	20	24.03	24.00	23.99	
15	16QAM	36	39	24.04	24.02	24.00	25.5
15	16QAM	75	0	24.09	24.03	24.03	
15	64QAM	1	0	24.15	24.19	24.21	
15	64QAM	1	37	24.14	24.06	23.98	24.5
15	64QAM	1	74	24.11	24.10	24.00	
15	64QAM	36	0	23.14	23.04	23.06	
15	64QAM	36	20	23.16	23.08	23.07	22.5
15	64QAM	36	39	23.14	23.11	23.09	
15	64QAM	75	0	23.08	23.04	23.07	
15	256QAM	1	0	21.25	21.32	21.29	22.5
15	256QAM	1	37	21.14	21.09	21.08	
15	256QAM	1	74	20.94	21.01	20.93	
15	256QAM	36	0	21.36	21.33	21.28	22.5
15	256QAM	36	20	21.30	21.26	21.20	
15	256QAM	36	39	21.14	21.24	21.21	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	21.22	21.21	21.20	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	26.10	26.06	26.12	27.5
10	QPSK	1	25	26.03	26.03	26.03	
10	QPSK	1	49	26.13	26.12	26.15	
10	QPSK	25	0	25.15	25.15	25.16	26.5
10	QPSK	25	12	25.17	25.14	25.16	
10	QPSK	25	25	25.16	25.13	25.15	
10	QPSK	50	0	25.19	25.17	25.18	
10	16QAM	1	0	25.38	25.49	25.31	26.5
10	16QAM	1	25	25.34	25.30	25.30	
10	16QAM	1	49	25.35	25.32	25.40	
10	16QAM	25	0	24.21	24.25	24.25	25.5
10	16QAM	25	12	24.26	24.21	24.24	
10	16QAM	25	25	24.28	24.25	24.26	
10	16QAM	50	0	24.25	24.23	24.24	
10	64QAM	1	0	24.59	24.47	24.54	25.5
10	64QAM	1	25	24.69	24.67	24.41	
10	64QAM	1	49	24.78	24.72	24.42	
10	64QAM	25	0	23.23	23.21	23.25	24.5
10	64QAM	25	12	23.31	23.23	23.23	
10	64QAM	25	25	23.31	23.24	23.22	
10	64QAM	50	0	23.22	23.17	23.24	
10	256QAM	1	0	21.21	21.33	21.26	22.5
10	256QAM	1	25	21.07	21.13	21.05	
10	256QAM	1	49	20.90	20.96	20.98	
10	256QAM	25	0	21.35	21.31	21.34	22.5
10	256QAM	25	12	21.23	21.27	21.29	
10	256QAM	25	25	21.20	21.22	21.12	
10	256QAM	50	0	21.24	21.28	21.15	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	26.16	26.15	26.15	27.5
5	QPSK	1	12	26.16	26.11	26.14	
5	QPSK	1	24	26.16	26.14	26.12	
5	QPSK	12	0	25.25	25.17	25.26	26.5
5	QPSK	12	7	25.27	25.17	25.22	
5	QPSK	12	13	25.28	25.19	25.19	
5	QPSK	25	0	25.27	25.15	25.19	
5	16QAM	1	0	25.61	25.51	25.52	26.5
5	16QAM	1	12	25.32	25.23	25.33	
5	16QAM	1	24	25.49	25.41	25.38	
5	16QAM	12	0	24.28	24.23	24.23	25.5
5	16QAM	12	7	24.29	24.26	24.21	
5	16QAM	12	13	24.31	24.27	24.22	
5	16QAM	25	0	24.39	24.30	24.25	
5	64QAM	1	0	24.31	24.56	24.36	25.5
5	64QAM	1	12	24.11	23.92	23.81	
5	64QAM	1	24	24.39	24.30	24.27	
5	64QAM	12	0	23.36	23.27	23.27	24.5
5	64QAM	12	7	23.40	23.35	23.28	
5	64QAM	12	13	23.33	23.33	23.32	
5	64QAM	25	0	23.30	23.23	23.23	
5	256QAM	1	0	21.26	21.37	21.24	22.5
5	256QAM	1	12	21.12	21.14	21.02	
5	256QAM	1	24	21.00	21.00	20.94	
5	256QAM	12	0	21.37	21.30	21.31	22.5
5	256QAM	12	7	21.22	21.35	21.24	
5	256QAM	12	13	21.22	21.26	21.16	
5	256QAM	25	0	21.24	21.24	21.21	



<LTE Band 38_HPUE_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	26.16	26.17	26.16	26.6
20	QPSK	1	49	26.15	26.14	26.15	
20	QPSK	1	99	26.05	26.02	26.04	
20	QPSK	50	0	25.16	25.18	25.12	26.5
20	QPSK	50	24	25.11	25.08	25.08	
20	QPSK	50	50	25.10	25.06	25.11	
20	QPSK	100	0	25.09	25.10	25.07	26.5
20	16QAM	1	0	25.45	25.35	25.47	
20	16QAM	1	49	25.65	25.79	25.78	
20	16QAM	1	99	25.54	25.53	25.48	25.5
20	16QAM	50	0	24.11	24.08	24.06	
20	16QAM	50	24	24.13	24.08	24.07	
20	16QAM	50	50	24.11	24.05	24.10	25.5
20	16QAM	100	0	24.16	24.10	24.12	
20	64QAM	1	0	24.13	24.15	24.15	
20	64QAM	1	49	24.54	24.51	24.50	24.5
20	64QAM	1	99	24.45	24.44	24.35	
20	64QAM	50	0	23.14	23.10	23.12	
20	64QAM	50	24	23.16	23.09	23.08	24.5
20	64QAM	50	50	23.14	23.09	23.12	
20	64QAM	100	0	23.17	23.10	23.10	
20	256QAM	1	0	21.30	21.39	21.33	22.5
20	256QAM	1	49	21.14	21.19	21.09	
20	256QAM	1	99	21.00	21.04	21.01	
20	256QAM	50	0	21.38	21.39	21.36	22.5
20	256QAM	50	24	21.32	21.35	21.30	
20	256QAM	50	50	21.23	21.29	21.21	
20	256QAM	100	0	21.26	21.29	21.25	Tune-up limit (dBm)
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	26.01	25.94	25.97	26.6
15	QPSK	1	37	26.09	26.08	26.11	
15	QPSK	1	74	26.01	25.91	26.01	
15	QPSK	36	0	25.05	25.02	25.03	26.5
15	QPSK	36	20	25.05	24.99	25.06	
15	QPSK	36	39	25.05	25.00	25.04	
15	QPSK	75	0	25.06	24.99	25.04	26.5
15	16QAM	1	0	25.35	25.10	25.31	
15	16QAM	1	37	25.56	25.25	25.46	
15	16QAM	1	74	25.37	25.14	25.28	25.5
15	16QAM	36	0	24.01	23.97	23.97	
15	16QAM	36	20	24.03	24.00	23.99	
15	16QAM	36	39	24.04	24.02	24.00	25.5
15	16QAM	75	0	24.09	24.03	24.03	
15	64QAM	1	0	24.15	24.19	24.21	
15	64QAM	1	37	24.14	24.06	23.98	25.5
15	64QAM	1	74	24.11	24.10	24.00	
15	64QAM	36	0	23.14	23.04	23.06	
15	64QAM	36	20	23.16	23.08	23.07	24.5
15	64QAM	36	39	23.14	23.11	23.09	
15	64QAM	75	0	23.08	23.04	23.07	
15	256QAM	1	0	21.25	21.32	21.29	22.5
15	256QAM	1	37	21.14	21.09	21.08	
15	256QAM	1	74	20.94	21.01	20.93	
15	256QAM	36	0	21.36	21.33	21.28	22.5
15	256QAM	36	20	21.30	21.26	21.20	
15	256QAM	36	39	21.14	21.24	21.21	



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Report No. :FA451606B

15	256QAM	75	0	21.22	21.21	21.20	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	26.10	26.06	26.12	26.6
10	QPSK	1	25	26.03	26.03	26.03	
10	QPSK	1	49	26.13	26.12	26.15	
10	QPSK	25	0	25.15	25.15	25.16	26.5
10	QPSK	25	12	25.17	25.14	25.16	
10	QPSK	25	25	25.16	25.13	25.15	
10	QPSK	50	0	25.19	25.17	25.18	
10	16QAM	1	0	25.38	25.49	25.31	26.5
10	16QAM	1	25	25.34	25.30	25.30	
10	16QAM	1	49	25.35	25.32	25.40	
10	16QAM	25	0	24.21	24.25	24.25	25.5
10	16QAM	25	12	24.26	24.21	24.24	
10	16QAM	25	25	24.28	24.25	24.26	
10	16QAM	50	0	24.25	24.23	24.24	
10	64QAM	1	0	24.59	24.47	24.54	25.5
10	64QAM	1	25	24.69	24.67	24.41	
10	64QAM	1	49	24.78	24.72	24.42	
10	64QAM	25	0	23.23	23.21	23.25	24.5
10	64QAM	25	12	23.31	23.23	23.23	
10	64QAM	25	25	23.31	23.24	23.22	
10	64QAM	50	0	23.22	23.17	23.24	
10	256QAM	1	0	21.21	21.33	21.26	22.5
10	256QAM	1	25	21.07	21.13	21.05	
10	256QAM	1	49	20.90	20.96	20.98	
10	256QAM	25	0	21.35	21.31	21.34	22.5
10	256QAM	25	12	21.23	21.27	21.29	
10	256QAM	25	25	21.20	21.22	21.12	
10	256QAM	50	0	21.24	21.28	21.15	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	26.16	26.15	26.15	26.6
5	QPSK	1	12	26.16	26.11	26.14	
5	QPSK	1	24	26.16	26.14	26.12	
5	QPSK	12	0	25.25	25.17	25.26	26.5
5	QPSK	12	7	25.27	25.17	25.22	
5	QPSK	12	13	25.28	25.19	25.19	
5	QPSK	25	0	25.27	25.15	25.19	
5	16QAM	1	0	25.61	25.51	25.52	26.5
5	16QAM	1	12	25.32	25.23	25.33	
5	16QAM	1	24	25.49	25.41	25.38	
5	16QAM	12	0	24.28	24.23	24.23	25.5
5	16QAM	12	7	24.29	24.26	24.21	
5	16QAM	12	13	24.31	24.27	24.22	
5	16QAM	25	0	24.39	24.30	24.25	
5	64QAM	1	0	24.31	24.56	24.36	25.5
5	64QAM	1	12	24.11	23.92	23.81	
5	64QAM	1	24	24.39	24.30	24.27	
5	64QAM	12	0	23.36	23.27	23.27	
5	64QAM	12	7	23.40	23.35	23.28	24.5
5	64QAM	12	13	23.33	23.33	23.32	
5	64QAM	25	0	23.30	23.23	23.23	
5	256QAM	1	0	21.26	21.37	21.24	
5	256QAM	1	12	21.12	21.14	21.02	22.5
5	256QAM	1	24	21.00	21.00	20.94	
5	256QAM	12	0	21.37	21.30	21.31	
5	256QAM	12	7	21.22	21.35	21.24	22.5
5	256QAM	12	13	21.22	21.26	21.16	
5	256QAM	25	0	21.24	21.24	21.21	



<LTE Band 38_HPUE_Ant 2_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.98	23.98	23.98	
20	QPSK	1	49	24.03	24.00	24.02	24.9
20	QPSK	1	99	23.99	23.95	23.99	
20	QPSK	50	0	24.06	24.03	24.05	
20	QPSK	50	24	24.05	23.99	24.04	24.9
20	QPSK	50	50	24.03	23.98	24.00	
20	QPSK	100	0	24.06	24.02	24.04	
20	16QAM	1	0	24.30	24.19	24.25	24.9
20	16QAM	1	49	23.97	23.96	24.02	
20	16QAM	1	99	24.15	24.12	24.13	
20	16QAM	50	0	24.05	24.05	24.06	24.9
20	16QAM	50	24	24.06	24.01	24.07	
20	16QAM	50	50	24.04	24.04	24.05	
20	16QAM	100	0	24.06	24.06	24.06	24.9
20	64QAM	1	0	24.18	24.22	24.20	
20	64QAM	1	49	24.14	24.16	24.18	
20	64QAM	1	99	24.08	24.06	24.04	24.5
20	64QAM	50	0	24.08	24.04	24.08	
20	64QAM	50	24	24.06	24.00	24.05	
20	64QAM	50	50	24.04	24.01	24.07	22.5
20	64QAM	100	0	24.05	24.02	24.06	
20	256QAM	1	0	21.22	21.26	21.22	
20	256QAM	1	49	21.02	21.16	20.98	22.5
20	256QAM	1	99	20.94	20.98	20.98	
20	256QAM	50	0	21.34	21.20	21.30	
20	256QAM	50	24	21.25	21.32	21.18	22.5
20	256QAM	50	50	21.06	21.17	21.03	
20	256QAM	100	0	21.19	21.22	21.15	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.94	23.91	23.92	
15	QPSK	1	37	23.95	23.99	23.92	24.9
15	QPSK	1	74	23.92	23.92	23.93	
15	QPSK	36	0	24.06	23.95	23.99	
15	QPSK	36	20	23.96	23.99	24.02	24.9
15	QPSK	36	39	23.95	23.94	23.97	
15	QPSK	75	0	24.00	24.01	24.00	
15	16QAM	1	0	24.26	24.14	24.24	24.9
15	16QAM	1	37	23.95	23.96	23.92	
15	16QAM	1	74	24.12	24.06	24.11	
15	16QAM	36	0	23.95	23.97	23.98	24.9
15	16QAM	36	20	24.04	23.96	24.03	
15	16QAM	36	39	24.03	23.97	24.00	
15	16QAM	75	0	24.00	24.05	24.00	24.9
15	64QAM	1	0	24.11	24.16	24.13	
15	64QAM	1	37	24.04	24.11	24.08	
15	64QAM	1	74	24.04	23.97	23.99	24.5
15	64QAM	36	0	24.05	24.00	24.04	
15	64QAM	36	20	24.04	23.97	23.99	
15	64QAM	36	39	24.00	23.94	23.99	22.5
15	64QAM	75	0	24.02	23.99	24.03	
15	256QAM	1	0	21.21	21.18	21.16	
15	256QAM	1	37	21.01	21.16	20.92	22.5
15	256QAM	1	74	20.94	20.95	20.95	
15	256QAM	36	0	21.29	21.16	21.25	
15	256QAM	36	20	21.23	21.25	21.12	22.5
15	256QAM	36	39	20.99	21.07	21.00	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	21.14	21.14	21.14	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.98	23.95	23.89	24.9
10	QPSK	1	25	23.97	23.97	23.98	
10	QPSK	1	49	23.99	23.90	23.99	
10	QPSK	25	0	24.00	23.96	24.00	24.9
10	QPSK	25	12	24.02	23.91	24.04	
10	QPSK	25	25	24.01	23.92	24.01	
10	QPSK	50	0	23.96	23.92	24.00	
10	16QAM	1	0	24.21	24.14	24.15	24.9
10	16QAM	1	25	23.87	23.91	23.97	
10	16QAM	1	49	24.13	24.06	24.06	
10	16QAM	25	0	24.04	24.05	23.97	24.9
10	16QAM	25	12	23.98	23.98	23.99	
10	16QAM	25	25	24.01	24.03	24.02	
10	16QAM	50	0	24.00	23.97	23.99	
10	64QAM	1	0	24.18	24.12	24.11	24.9
10	64QAM	1	25	24.09	24.11	24.17	
10	64QAM	1	49	24.03	24.01	23.95	
10	64QAM	25	0	23.99	23.97	24.01	24.5
10	64QAM	25	12	23.99	23.92	24.01	
10	64QAM	25	25	24.00	23.98	24.04	
10	64QAM	50	0	23.96	23.92	24.01	
10	256QAM	1	0	21.21	21.24	21.18	22.5
10	256QAM	1	25	20.93	21.16	20.88	
10	256QAM	1	49	20.91	20.89	20.96	
10	256QAM	25	0	21.34	21.20	21.20	22.5
10	256QAM	25	12	21.24	21.22	21.09	
10	256QAM	25	25	21.04	21.12	20.97	
10	256QAM	50	0	21.11	21.12	21.05	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.96	23.97	23.95	24.9
5	QPSK	1	12	23.98	23.95	23.97	
5	QPSK	1	24	23.98	23.88	23.90	
5	QPSK	12	0	24.02	23.96	23.98	24.9
5	QPSK	12	7	24.02	23.92	24.02	
5	QPSK	12	13	24.03	23.95	24.05	
5	QPSK	25	0	24.00	23.96	24.01	
5	16QAM	1	0	24.24	24.14	24.17	24.9
5	16QAM	1	12	23.91	23.89	23.99	
5	16QAM	1	24	24.15	24.12	24.08	
5	16QAM	12	0	23.99	23.97	23.97	24.9
5	16QAM	12	7	24.04	23.95	23.99	
5	16QAM	12	13	23.95	23.96	24.00	
5	16QAM	25	0	23.99	24.05	23.98	
5	64QAM	1	0	24.17	24.15	24.12	24.9
5	64QAM	1	12	24.06	24.13	24.11	
5	64QAM	1	24	24.05	24.01	24.00	
5	64QAM	12	0	24.07	24.01	24.06	24.5
5	64QAM	12	7	24.05	23.93	24.04	
5	64QAM	12	13	24.04	23.94	24.02	
5	64QAM	25	0	24.02	23.96	24.05	
5	256QAM	1	0	21.18	21.16	21.14	22.5
5	256QAM	1	12	21.00	21.11	20.89	
5	256QAM	1	24	20.91	20.94	20.94	
5	256QAM	12	0	21.26	21.18	21.25	22.5
5	256QAM	12	7	21.15	21.29	21.15	
5	256QAM	12	13	21.02	21.12	20.94	
5	256QAM	25	0	21.17	21.15	21.07	



<LTE Band 38_HPUE_Ant 2_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.98	23.98	23.98	25.3
20	QPSK	1	49	24.03	24.00	24.02	
20	QPSK	1	99	23.99	23.95	23.99	
20	QPSK	50	0	24.06	24.03	24.05	25.3
20	QPSK	50	24	24.05	23.99	24.04	
20	QPSK	50	50	24.03	23.98	24.00	
20	QPSK	100	0	24.06	24.02	24.04	25.3
20	16QAM	1	0	24.30	24.19	24.25	
20	16QAM	1	49	23.97	23.96	24.02	
20	16QAM	1	99	24.15	24.12	24.13	25.3
20	16QAM	50	0	24.05	24.05	24.06	
20	16QAM	50	24	24.06	24.01	24.07	
20	16QAM	50	50	24.04	24.04	24.05	25.3
20	16QAM	100	0	24.06	24.06	24.06	
20	64QAM	1	0	24.18	24.22	24.20	
20	64QAM	1	49	24.14	24.16	24.18	25.3
20	64QAM	1	99	24.08	24.06	24.04	
20	64QAM	50	0	24.08	24.04	24.08	
20	64QAM	50	24	24.06	24.00	24.05	24.5
20	64QAM	50	50	24.04	24.01	24.07	
20	64QAM	100	0	24.05	24.02	24.06	
20	256QAM	1	0	21.22	21.26	21.22	22.5
20	256QAM	1	49	21.02	21.16	20.98	
20	256QAM	1	99	20.94	20.98	20.98	
20	256QAM	50	0	21.34	21.20	21.30	22.5
20	256QAM	50	24	21.25	21.32	21.18	
20	256QAM	50	50	21.06	21.17	21.03	
20	256QAM	100	0	21.19	21.22	21.15	Tune-up limit (dBm)
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.94	23.91	23.92	25.3
15	QPSK	1	37	23.95	23.99	23.92	
15	QPSK	1	74	23.92	23.92	23.93	
15	QPSK	36	0	24.06	23.95	23.99	25.3
15	QPSK	36	20	23.96	23.99	24.02	
15	QPSK	36	39	23.95	23.94	23.97	
15	QPSK	75	0	24.00	24.01	24.00	25.3
15	16QAM	1	0	24.26	24.14	24.24	
15	16QAM	1	37	23.95	23.96	23.92	
15	16QAM	1	74	24.12	24.06	24.11	25.3
15	16QAM	36	0	23.95	23.97	23.98	
15	16QAM	36	20	24.04	23.96	24.03	
15	16QAM	36	39	24.03	23.97	24.00	25.3
15	16QAM	75	0	24.00	24.05	24.00	
15	64QAM	1	0	24.11	24.16	24.13	
15	64QAM	1	37	24.04	24.11	24.08	25.3
15	64QAM	1	74	24.04	23.97	23.99	
15	64QAM	36	0	24.05	24.00	24.04	
15	64QAM	36	20	24.04	23.97	23.99	24.5
15	64QAM	36	39	24.00	23.94	23.99	
15	64QAM	75	0	24.02	23.99	24.03	
15	256QAM	1	0	21.21	21.18	21.16	22.5
15	256QAM	1	37	21.01	21.16	20.92	
15	256QAM	1	74	20.94	20.95	20.95	
15	256QAM	36	0	21.29	21.16	21.25	22.5
15	256QAM	36	20	21.23	21.25	21.12	
15	256QAM	36	39	20.99	21.07	21.00	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	21.14	21.14	21.14	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.98	23.95	23.89	25.3
10	QPSK	1	25	23.97	23.97	23.98	
10	QPSK	1	49	23.99	23.90	23.99	
10	QPSK	25	0	24.00	23.96	24.00	25.3
10	QPSK	25	12	24.02	23.91	24.04	
10	QPSK	25	25	24.01	23.92	24.01	
10	QPSK	50	0	23.96	23.92	24.00	
10	16QAM	1	0	24.21	24.14	24.15	25.3
10	16QAM	1	25	23.87	23.91	23.97	
10	16QAM	1	49	24.13	24.06	24.06	
10	16QAM	25	0	24.04	24.05	23.97	25.3
10	16QAM	25	12	23.98	23.98	23.99	
10	16QAM	25	25	24.01	24.03	24.02	
10	16QAM	50	0	24.00	23.97	23.99	
10	64QAM	1	0	24.18	24.12	24.11	25.3
10	64QAM	1	25	24.09	24.11	24.17	
10	64QAM	1	49	24.03	24.01	23.95	
10	64QAM	25	0	23.99	23.97	24.01	
10	64QAM	25	12	23.99	23.92	24.01	24.5
10	64QAM	25	25	24.00	23.98	24.04	
10	64QAM	50	0	23.96	23.92	24.01	
10	256QAM	1	0	21.21	21.24	21.18	
10	256QAM	1	25	20.93	21.16	20.88	22.5
10	256QAM	1	49	20.91	20.89	20.96	
10	256QAM	25	0	21.34	21.20	21.20	
10	256QAM	25	12	21.24	21.22	21.09	22.5
10	256QAM	25	25	21.04	21.12	20.97	
10	256QAM	50	0	21.11	21.12	21.05	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.96	23.97	23.95	25.3
5	QPSK	1	12	23.98	23.95	23.97	
5	QPSK	1	24	23.98	23.88	23.90	
5	QPSK	12	0	24.02	23.96	23.98	25.3
5	QPSK	12	7	24.02	23.92	24.02	
5	QPSK	12	13	24.03	23.95	24.05	
5	QPSK	25	0	24.00	23.96	24.01	
5	16QAM	1	0	24.24	24.14	24.17	25.3
5	16QAM	1	12	23.91	23.89	23.99	
5	16QAM	1	24	24.15	24.12	24.08	
5	16QAM	12	0	23.99	23.97	23.97	25.3
5	16QAM	12	7	24.04	23.95	23.99	
5	16QAM	12	13	23.95	23.96	24.00	
5	16QAM	25	0	23.99	24.05	23.98	
5	64QAM	1	0	24.17	24.15	24.12	25.3
5	64QAM	1	12	24.06	24.13	24.11	
5	64QAM	1	24	24.05	24.01	24.00	
5	64QAM	12	0	24.07	24.01	24.06	
5	64QAM	12	7	24.05	23.93	24.04	24.5
5	64QAM	12	13	24.04	23.94	24.02	
5	64QAM	25	0	24.02	23.96	24.05	
5	256QAM	1	0	21.18	21.16	21.14	
5	256QAM	1	12	21.00	21.11	20.89	22.5
5	256QAM	1	24	20.91	20.94	20.94	
5	256QAM	12	0	21.26	21.18	21.25	
5	256QAM	12	7	21.15	21.29	21.15	22.5
5	256QAM	12	13	21.02	21.12	20.94	
5	256QAM	25	0	21.17	21.15	21.07	



<LTE Band 38_HPUE_Ant 2_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.98	23.98	23.98	25.3
20	QPSK	1	49	24.03	24.00	24.02	
20	QPSK	1	99	23.99	23.95	23.99	
20	QPSK	50	0	24.06	24.03	24.05	25.3
20	QPSK	50	24	24.05	23.99	24.04	
20	QPSK	50	50	24.03	23.98	24.00	
20	QPSK	100	0	24.06	24.02	24.04	25.3
20	16QAM	1	0	24.30	24.19	24.25	
20	16QAM	1	49	23.97	23.96	24.02	
20	16QAM	1	99	24.15	24.12	24.13	25.2
20	16QAM	50	0	24.05	24.05	24.06	
20	16QAM	50	24	24.06	24.01	24.07	
20	16QAM	50	50	24.04	24.04	24.05	25.2
20	16QAM	100	0	24.06	24.06	24.06	
20	64QAM	1	0	24.18	24.22	24.20	
20	64QAM	1	49	24.14	24.16	24.18	24.2
20	64QAM	1	99	24.08	24.06	24.04	
20	64QAM	50	0	24.08	24.04	24.08	
20	64QAM	50	24	24.06	24.00	24.05	22.2
20	64QAM	50	50	24.04	24.01	24.07	
20	64QAM	100	0	24.05	24.02	24.06	
20	256QAM	1	0	21.22	21.26	21.22	22.2
20	256QAM	1	49	21.02	21.16	20.98	
20	256QAM	1	99	20.94	20.98	20.98	
20	256QAM	50	0	21.34	21.20	21.30	22.2
20	256QAM	50	24	21.25	21.32	21.18	
20	256QAM	50	50	21.06	21.17	21.03	
20	256QAM	100	0	21.19	21.22	21.15	25.3
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.94	23.91	23.92	25.3
15	QPSK	1	37	23.95	23.99	23.92	
15	QPSK	1	74	23.92	23.92	23.93	
15	QPSK	36	0	24.06	23.95	23.99	25.3
15	QPSK	36	20	23.96	23.99	24.02	
15	QPSK	36	39	23.95	23.94	23.97	
15	QPSK	75	0	24.00	24.01	24.00	25.3
15	16QAM	1	0	24.26	24.14	24.24	
15	16QAM	1	37	23.95	23.96	23.92	
15	16QAM	1	74	24.12	24.06	24.11	25.2
15	16QAM	36	0	23.95	23.97	23.98	
15	16QAM	36	20	24.04	23.96	24.03	
15	16QAM	36	39	24.03	23.97	24.00	25.2
15	16QAM	75	0	24.00	24.05	24.00	
15	64QAM	1	0	24.11	24.16	24.13	
15	64QAM	1	37	24.04	24.11	24.08	24.2
15	64QAM	1	74	24.04	23.97	23.99	
15	64QAM	36	0	24.05	24.00	24.04	
15	64QAM	36	20	24.04	23.97	23.99	22.2
15	64QAM	36	39	24.00	23.94	23.99	
15	64QAM	75	0	24.02	23.99	24.03	
15	256QAM	1	0	21.21	21.18	21.16	22.2
15	256QAM	1	37	21.01	21.16	20.92	
15	256QAM	1	74	20.94	20.95	20.95	
15	256QAM	36	0	21.29	21.16	21.25	22.2
15	256QAM	36	20	21.23	21.25	21.12	
15	256QAM	36	39	20.99	21.07	21.00	



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15	256QAM	75	0	21.14	21.14	21.14	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.98	23.95	23.89	25.3
10	QPSK	1	25	23.97	23.97	23.98	
10	QPSK	1	49	23.99	23.90	23.99	
10	QPSK	25	0	24.00	23.96	24.00	25.3
10	QPSK	25	12	24.02	23.91	24.04	
10	QPSK	25	25	24.01	23.92	24.01	
10	QPSK	50	0	23.96	23.92	24.00	
10	16QAM	1	0	24.21	24.14	24.15	25.3
10	16QAM	1	25	23.87	23.91	23.97	
10	16QAM	1	49	24.13	24.06	24.06	
10	16QAM	25	0	24.04	24.05	23.97	25.2
10	16QAM	25	12	23.98	23.98	23.99	
10	16QAM	25	25	24.01	24.03	24.02	
10	16QAM	50	0	24.00	23.97	23.99	
10	64QAM	1	0	24.18	24.12	24.11	25.2
10	64QAM	1	25	24.09	24.11	24.17	
10	64QAM	1	49	24.03	24.01	23.95	
10	64QAM	25	0	23.99	23.97	24.01	24.2
10	64QAM	25	12	23.99	23.92	24.01	
10	64QAM	25	25	24.00	23.98	24.04	
10	64QAM	50	0	23.96	23.92	24.01	
10	256QAM	1	0	21.21	21.24	21.18	22.2
10	256QAM	1	25	20.93	21.16	20.88	
10	256QAM	1	49	20.91	20.89	20.96	
10	256QAM	25	0	21.34	21.20	21.20	22.2
10	256QAM	25	12	21.24	21.22	21.09	
10	256QAM	25	25	21.04	21.12	20.97	
10	256QAM	50	0	21.11	21.12	21.05	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.96	23.97	23.95	25.3
5	QPSK	1	12	23.98	23.95	23.97	
5	QPSK	1	24	23.98	23.88	23.90	
5	QPSK	12	0	24.02	23.96	23.98	25.3
5	QPSK	12	7	24.02	23.92	24.02	
5	QPSK	12	13	24.03	23.95	24.05	
5	QPSK	25	0	24.00	23.96	24.01	
5	16QAM	1	0	24.24	24.14	24.17	25.3
5	16QAM	1	12	23.91	23.89	23.99	
5	16QAM	1	24	24.15	24.12	24.08	
5	16QAM	12	0	23.99	23.97	23.97	25.2
5	16QAM	12	7	24.04	23.95	23.99	
5	16QAM	12	13	23.95	23.96	24.00	
5	16QAM	25	0	23.99	24.05	23.98	
5	64QAM	1	0	24.17	24.15	24.12	25.2
5	64QAM	1	12	24.06	24.13	24.11	
5	64QAM	1	24	24.05	24.01	24.00	
5	64QAM	12	0	24.07	24.01	24.06	24.2
5	64QAM	12	7	24.05	23.93	24.04	
5	64QAM	12	13	24.04	23.94	24.02	
5	64QAM	25	0	24.02	23.96	24.05	
5	256QAM	1	0	21.18	21.16	21.14	22.2
5	256QAM	1	12	21.00	21.11	20.89	
5	256QAM	1	24	20.91	20.94	20.94	
5	256QAM	12	0	21.26	21.18	21.25	22.2
5	256QAM	12	7	21.15	21.29	21.15	
5	256QAM	12	13	21.02	21.12	20.94	
5	256QAM	25	0	21.17	21.15	21.07	



<LTE Band 41_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.48	24.60	24.40	24.41	24.53	25.7
20	QPSK	1	49	24.45	24.59	24.39	24.40	24.52	
20	QPSK	1	99	24.45	24.55	24.34	24.38	24.44	
20	QPSK	50	0	23.51	23.64	23.38	23.47	23.52	24.7
20	QPSK	50	24	23.48	23.62	23.37	23.46	23.49	
20	QPSK	50	50	23.47	23.63	23.36	23.45	23.48	
20	QPSK	100	0	23.51	23.66	23.37	23.49	23.51	24.7
20	16QAM	1	0	23.57	23.67	23.52	23.45	23.54	
20	16QAM	1	49	23.63	23.69	23.55	23.51	23.55	
20	16QAM	1	99	23.61	23.64	23.54	23.49	23.54	23.7
20	16QAM	50	0	22.49	22.61	22.37	22.42	22.53	
20	16QAM	50	24	22.49	22.58	22.38	22.41	22.51	
20	16QAM	50	50	22.48	22.58	22.37	22.41	22.49	23.7
20	16QAM	100	0	22.54	22.63	22.39	22.45	22.53	
20	64QAM	1	0	22.41	22.38	22.15	22.21	22.29	
20	64QAM	1	49	22.43	22.45	22.13	22.24	22.29	22.7
20	64QAM	1	99	22.29	22.40	22.19	22.13	22.25	
20	64QAM	50	0	21.51	21.62	21.44	21.45	21.55	
20	64QAM	50	24	21.51	21.61	21.42	21.45	21.54	20.7
20	64QAM	50	50	21.49	21.59	21.42	21.42	21.52	
20	64QAM	100	0	21.50	21.61	21.42	21.44	21.51	
20	256QAM	1	0	19.36	19.40	19.39	19.33	19.34	20.7
20	256QAM	1	49	19.24	19.32	19.31	19.26	19.26	
20	256QAM	1	99	19.34	19.38	19.30	19.29	19.31	
20	256QAM	50	0	19.53	19.53	19.43	19.43	19.51	20.7
20	256QAM	50	24	19.49	19.50	19.46	19.43	19.45	
20	256QAM	50	50	19.43	19.49	19.43	19.47	19.42	
20	256QAM	100	0	19.46	19.50	19.49	19.44	19.43	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.49	24.59	24.43	24.42	24.55	25.70
15	QPSK	1	37	24.49	24.48	24.42	24.26	24.54	
15	QPSK	1	74	24.46	24.55	24.34	24.39	24.46	
15	QPSK	36	0	23.51	23.63	23.40	23.44	23.52	24.7
15	QPSK	36	20	23.49	23.59	23.39	23.44	23.49	
15	QPSK	36	39	23.50	23.62	23.38	23.44	23.48	
15	QPSK	75	0	23.53	23.66	23.39	23.49	23.52	24.7
15	16QAM	1	0	23.51	23.62	23.49	23.42	23.55	
15	16QAM	1	37	23.70	23.70	23.59	23.46	23.46	
15	16QAM	1	74	23.63	23.65	23.53	23.46	23.51	23.7
15	16QAM	36	0	22.43	22.57	22.37	22.37	22.46	
15	16QAM	36	20	22.42	22.58	22.39	22.40	22.49	
15	16QAM	36	39	22.46	22.55	22.40	22.39	22.48	23.7
15	16QAM	75	0	22.53	22.62	22.40	22.49	22.54	
15	64QAM	1	0	22.32	22.35	22.13	22.26	22.30	22.7
15	64QAM	1	37	22.37	22.36	22.20	22.39	22.27	
15	64QAM	1	74	22.33	22.32	22.10	22.24	22.24	
15	64QAM	36	0	21.52	21.60	21.43	21.41	21.52	20.7
15	64QAM	36	20	21.49	21.60	21.43	21.44	21.51	
15	64QAM	36	39	21.50	21.62	21.45	21.45	21.51	
15	64QAM	75	0	21.50	21.61	21.43	21.46	21.54	20.7
15	256QAM	1	0	19.28	19.32	19.31	19.31	19.30	
15	256QAM	1	37	19.16	19.27	19.21	19.26	19.18	
15	256QAM	1	74	19.31	19.36	19.21	19.21	19.28	20.7
15	256QAM	36	0	19.47	19.46	19.42	19.38	19.50	
15	256QAM	36	20	19.48	19.41	19.43	19.40	19.37	
15	256QAM	36	39	19.42	19.44	19.35	19.43	19.41	



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15	256QAM	75	0	19.40	19.48	19.46	19.44	19.33	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.50	24.58	24.44	24.46	24.55	25.70
10	QPSK	1	25	24.40	24.46	24.29	24.32	24.41	
10	QPSK	1	49	24.48	24.52	24.38	24.44	24.48	
10	QPSK	25	0	23.50	23.61	23.40	23.50	23.57	24.7
10	QPSK	25	12	23.44	23.60	23.37	23.49	23.52	
10	QPSK	25	25	23.45	23.55	23.39	23.45	23.55	
10	QPSK	50	0	23.49	23.65	23.42	23.50	23.56	
10	16QAM	1	0	23.56	23.65	23.53	23.49	23.69	24.7
10	16QAM	1	25	23.51	23.58	23.48	23.40	23.59	
10	16QAM	1	49	23.56	23.59	23.51	23.47	23.63	
10	16QAM	25	0	22.54	22.64	22.46	22.48	22.58	23.7
10	16QAM	25	12	22.56	22.67	22.47	22.50	22.59	
10	16QAM	25	25	22.53	22.63	22.49	22.51	22.57	
10	16QAM	50	0	22.50	22.63	22.46	22.46	22.57	
10	64QAM	1	0	22.32	22.44	22.24	22.32	22.41	23.7
10	64QAM	1	25	22.29	22.30	22.17	22.23	22.35	
10	64QAM	1	49	22.39	22.36	22.26	22.29	22.34	
10	64QAM	25	0	21.51	21.62	21.41	21.48	21.58	22.7
10	64QAM	25	12	21.51	21.66	21.41	21.47	21.58	
10	64QAM	25	25	21.50	21.64	21.41	21.49	21.53	
10	64QAM	50	0	21.50	21.62	21.45	21.46	21.56	
10	256QAM	1	0	19.34	19.30	19.32	19.33	19.30	20.7
10	256QAM	1	25	19.20	19.32	19.24	19.20	19.21	
10	256QAM	1	49	19.33	19.35	19.20	19.25	19.28	
10	256QAM	25	0	19.46	19.48	19.39	19.38	19.48	20.7
10	256QAM	25	12	19.47	19.45	19.38	19.35	19.38	
10	256QAM	25	25	19.39	19.48	19.39	19.46	19.38	
10	256QAM	50	0	19.42	19.46	19.45	19.43	19.40	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.46	24.59	24.40	24.42	24.51	25.70
5	QPSK	1	12	24.43	24.52	24.36	24.41	24.50	
5	QPSK	1	24	24.41	24.57	24.37	24.40	24.47	
5	QPSK	12	0	23.44	23.60	23.38	23.41	23.50	24.7
5	QPSK	12	7	23.42	23.52	23.37	23.35	23.47	
5	QPSK	12	13	23.41	23.59	23.35	23.32	23.45	
5	QPSK	25	0	23.50	23.62	23.38	23.47	23.56	
5	16QAM	1	0	23.53	23.70	23.48	23.57	23.60	24.7
5	16QAM	1	12	23.58	23.73	23.58	23.62	23.57	
5	16QAM	1	24	23.57	23.71	23.52	23.55	23.58	
5	16QAM	12	0	22.38	22.55	22.37	22.35	22.46	23.7
5	16QAM	12	7	22.45	22.54	22.35	22.32	22.51	
5	16QAM	12	13	22.45	22.55	22.37	22.39	22.46	
5	16QAM	25	0	22.54	22.62	22.45	22.48	22.57	
5	64QAM	1	0	22.30	22.39	22.17	22.21	22.32	23.7
5	64QAM	1	12	22.35	22.41	22.27	22.40	22.34	
5	64QAM	1	24	22.30	22.41	22.14	22.20	22.31	
5	64QAM	12	0	21.39	21.53	21.43	21.35	21.46	22.7
5	64QAM	12	7	21.43	21.59	21.40	21.38	21.46	
5	64QAM	12	13	21.42	21.53	21.43	21.36	21.44	
5	64QAM	25	0	21.51	21.61	21.40	21.44	21.53	
5	256QAM	1	0	19.28	19.30	19.31	19.29	19.26	20.7
5	256QAM	1	12	19.14	19.25	19.31	19.18	19.17	
5	256QAM	1	24	19.26	19.31	19.22	19.28	19.26	
5	256QAM	12	0	19.46	19.49	19.38	19.42	19.43	20.7
5	256QAM	12	7	19.43	19.40	19.39	19.34	19.41	
5	256QAM	12	13	19.34	19.43	19.37	19.39	19.32	
5	256QAM	25	0	19.37	19.42	19.49	19.40	19.38	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.48	24.60	24.40	24.41	24.53	25
20	QPSK	1	49	24.45	24.59	24.39	24.40	24.52	
20	QPSK	1	99	24.45	24.55	24.34	24.38	24.44	
20	QPSK	50	0	23.51	23.64	23.38	23.47	23.52	24.7
20	QPSK	50	24	23.48	23.62	23.37	23.46	23.49	
20	QPSK	50	50	23.47	23.63	23.36	23.45	23.48	
20	QPSK	100	0	23.51	23.66	23.37	23.49	23.51	24.7
20	16QAM	1	0	23.57	23.67	23.52	23.45	23.54	
20	16QAM	1	49	23.63	23.69	23.55	23.51	23.55	
20	16QAM	1	99	23.61	23.64	23.54	23.49	23.54	23.7
20	16QAM	50	0	22.49	22.61	22.37	22.42	22.53	
20	16QAM	50	24	22.49	22.58	22.38	22.41	22.51	
20	16QAM	50	50	22.48	22.58	22.37	22.41	22.49	23.7
20	16QAM	100	0	22.54	22.63	22.39	22.45	22.53	
20	64QAM	1	0	22.41	22.38	22.15	22.21	22.29	
20	64QAM	1	49	22.43	22.45	22.13	22.24	22.29	22.7
20	64QAM	1	99	22.29	22.40	22.19	22.13	22.25	
20	64QAM	50	0	21.51	21.62	21.44	21.45	21.55	
20	64QAM	50	24	21.51	21.61	21.42	21.45	21.54	20.7
20	64QAM	50	50	21.49	21.59	21.42	21.42	21.52	
20	64QAM	100	0	21.50	21.61	21.42	21.44	21.51	
20	256QAM	1	0	19.36	19.40	19.39	19.33	19.34	20.7
20	256QAM	1	49	19.24	19.32	19.31	19.26	19.26	
20	256QAM	1	99	19.34	19.38	19.30	19.29	19.31	
20	256QAM	50	0	19.53	19.53	19.43	19.43	19.51	20.7
20	256QAM	50	24	19.49	19.50	19.46	19.43	19.45	
20	256QAM	50	50	19.43	19.49	19.43	19.47	19.42	
20	256QAM	100	0	19.46	19.50	19.49	19.44	19.43	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.49	24.59	24.43	24.42	24.55	25.00
15	QPSK	1	37	24.49	24.48	24.42	24.26	24.54	
15	QPSK	1	74	24.46	24.55	24.34	24.39	24.46	
15	QPSK	36	0	23.51	23.63	23.40	23.44	23.52	24.7
15	QPSK	36	20	23.49	23.59	23.39	23.44	23.49	
15	QPSK	36	39	23.50	23.62	23.38	23.44	23.48	
15	QPSK	75	0	23.53	23.66	23.39	23.49	23.52	24.7
15	16QAM	1	0	23.51	23.62	23.49	23.42	23.55	
15	16QAM	1	37	23.70	23.70	23.59	23.46	23.46	
15	16QAM	1	74	23.63	23.65	23.53	23.46	23.51	23.7
15	16QAM	36	0	22.43	22.57	22.37	22.37	22.46	
15	16QAM	36	20	22.42	22.58	22.39	22.40	22.49	
15	16QAM	36	39	22.46	22.55	22.40	22.39	22.48	23.7
15	16QAM	75	0	22.53	22.62	22.40	22.49	22.54	
15	64QAM	1	0	22.32	22.35	22.13	22.26	22.30	
15	64QAM	1	37	22.37	22.36	22.20	22.39	22.27	22.7
15	64QAM	1	74	22.33	22.32	22.10	22.24	22.24	
15	64QAM	36	0	21.52	21.60	21.43	21.41	21.52	
15	64QAM	36	20	21.49	21.60	21.43	21.44	21.51	20.7
15	64QAM	36	39	21.50	21.62	21.45	21.45	21.51	
15	64QAM	75	0	21.50	21.61	21.43	21.46	21.54	
15	256QAM	1	0	19.28	19.32	19.31	19.31	19.30	20.7
15	256QAM	1	37	19.16	19.27	19.21	19.26	19.18	
15	256QAM	1	74	19.31	19.36	19.21	19.21	19.28	
15	256QAM	36	0	19.47	19.46	19.42	19.38	19.50	20.7
15	256QAM	36	20	19.48	19.41	19.43	19.40	19.37	
15	256QAM	36	39	19.42	19.44	19.35	19.43	19.41	



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15	256QAM	75	0	19.40	19.48	19.46	19.44	19.33	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.50	24.58	24.44	24.46	24.55	25.00
10	QPSK	1	25	24.40	24.46	24.29	24.32	24.41	
10	QPSK	1	49	24.48	24.52	24.38	24.44	24.48	
10	QPSK	25	0	23.50	23.61	23.40	23.50	23.57	24.7
10	QPSK	25	12	23.44	23.60	23.37	23.49	23.52	
10	QPSK	25	25	23.45	23.55	23.39	23.45	23.55	
10	QPSK	50	0	23.49	23.65	23.42	23.50	23.56	
10	16QAM	1	0	23.56	23.65	23.53	23.49	23.69	24.7
10	16QAM	1	25	23.51	23.58	23.48	23.40	23.59	
10	16QAM	1	49	23.56	23.59	23.51	23.47	23.63	
10	16QAM	25	0	22.54	22.64	22.46	22.48	22.58	23.7
10	16QAM	25	12	22.56	22.67	22.47	22.50	22.59	
10	16QAM	25	25	22.53	22.63	22.49	22.51	22.57	
10	16QAM	50	0	22.50	22.63	22.46	22.46	22.57	
10	64QAM	1	0	22.32	22.44	22.24	22.32	22.41	23.7
10	64QAM	1	25	22.29	22.30	22.17	22.23	22.35	
10	64QAM	1	49	22.39	22.36	22.26	22.29	22.34	
10	64QAM	25	0	21.51	21.62	21.41	21.48	21.58	22.7
10	64QAM	25	12	21.51	21.66	21.41	21.47	21.58	
10	64QAM	25	25	21.50	21.64	21.41	21.49	21.53	
10	64QAM	50	0	21.50	21.62	21.45	21.46	21.56	
10	256QAM	1	0	19.34	19.30	19.32	19.33	19.30	20.7
10	256QAM	1	25	19.20	19.32	19.24	19.20	19.21	
10	256QAM	1	49	19.33	19.35	19.20	19.25	19.28	
10	256QAM	25	0	19.46	19.48	19.39	19.38	19.48	20.7
10	256QAM	25	12	19.47	19.45	19.38	19.35	19.38	
10	256QAM	25	25	19.39	19.48	19.39	19.46	19.38	
10	256QAM	50	0	19.42	19.46	19.45	19.43	19.40	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.46	24.59	24.40	24.42	24.51	25.00
5	QPSK	1	12	24.43	24.52	24.36	24.41	24.50	
5	QPSK	1	24	24.41	24.57	24.37	24.40	24.47	
5	QPSK	12	0	23.44	23.60	23.38	23.41	23.50	24.7
5	QPSK	12	7	23.42	23.52	23.37	23.35	23.47	
5	QPSK	12	13	23.41	23.59	23.35	23.32	23.45	
5	QPSK	25	0	23.50	23.62	23.38	23.47	23.56	
5	16QAM	1	0	23.53	23.70	23.48	23.57	23.60	24.7
5	16QAM	1	12	23.58	23.73	23.58	23.62	23.57	
5	16QAM	1	24	23.57	23.71	23.52	23.55	23.58	
5	16QAM	12	0	22.38	22.55	22.37	22.35	22.46	23.7
5	16QAM	12	7	22.45	22.54	22.35	22.32	22.51	
5	16QAM	12	13	22.45	22.55	22.37	22.39	22.46	
5	16QAM	25	0	22.54	22.62	22.45	22.48	22.57	
5	64QAM	1	0	22.30	22.39	22.17	22.21	22.32	23.7
5	64QAM	1	12	22.35	22.41	22.27	22.40	22.34	
5	64QAM	1	24	22.30	22.41	22.14	22.20	22.31	
5	64QAM	12	0	21.39	21.53	21.43	21.35	21.46	22.7
5	64QAM	12	7	21.43	21.59	21.40	21.38	21.46	
5	64QAM	12	13	21.42	21.53	21.43	21.36	21.44	
5	64QAM	25	0	21.51	21.61	21.40	21.44	21.53	
5	256QAM	1	0	19.28	19.30	19.31	19.29	19.26	20.7
5	256QAM	1	12	19.14	19.25	19.31	19.18	19.17	
5	256QAM	1	24	19.26	19.31	19.22	19.28	19.26	
5	256QAM	12	0	19.46	19.49	19.38	19.42	19.43	20.7
5	256QAM	12	7	19.43	19.40	19.39	19.34	19.41	
5	256QAM	12	13	19.34	19.43	19.37	19.39	19.32	
5	256QAM	25	0	19.37	19.42	19.49	19.40	19.38	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.26	22.40	22.22	22.31	22.39	23.3
20	QPSK	1	49	22.17	22.31	22.15	22.26	22.33	
20	QPSK	1	99	22.15	22.30	22.17	22.26	22.29	
20	QPSK	50	0	22.28	22.45	22.21	22.34	22.44	23.3
20	QPSK	50	24	22.26	22.37	22.19	22.33	22.40	
20	QPSK	50	50	22.22	22.36	22.16	22.32	22.37	
20	QPSK	100	0	22.23	22.42	22.16	22.34	22.41	23.3
20	16QAM	1	0	22.22	22.44	22.31	22.34	22.56	
20	16QAM	1	49	22.14	22.34	22.20	22.22	22.42	
20	16QAM	1	99	22.17	22.34	22.27	22.27	22.37	23.3
20	16QAM	50	0	22.24	22.35	22.20	22.29	22.42	
20	16QAM	50	24	22.22	22.33	22.20	22.29	22.38	
20	16QAM	50	50	22.18	22.33	22.19	22.28	22.34	23.3
20	16QAM	100	0	22.22	22.35	22.20	22.31	22.40	
20	64QAM	1	0	22.06	22.02	21.87	22.12	22.29	
20	64QAM	1	49	22.07	22.06	21.88	22.11	22.18	23.3
20	64QAM	1	99	22.01	22.01	21.92	22.08	22.15	
20	64QAM	50	0	21.53	21.67	21.52	21.61	21.73	
20	64QAM	50	24	21.55	21.64	21.50	21.60	21.69	22.7
20	64QAM	50	50	21.50	21.61	21.48	21.56	21.65	
20	64QAM	100	0	21.53	21.63	21.49	21.58	21.69	
20	256QAM	1	0	19.28	19.30	19.30	19.25	19.30	20.7
20	256QAM	1	49	19.19	19.27	19.21	19.18	19.17	
20	256QAM	1	99	19.24	19.33	19.25	19.26	19.27	
20	256QAM	50	0	19.51	19.44	19.43	19.38	19.50	20.7
20	256QAM	50	24	19.43	19.44	19.36	19.42	19.44	
20	256QAM	50	50	19.37	19.44	19.33	19.40	19.33	
20	256QAM	100	0	19.42	19.43	19.47	19.38	19.41	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.20	22.30	22.19	22.25	22.40	23.30
15	QPSK	1	37	22.09	22.21	22.12	22.25	22.29	
15	QPSK	1	74	22.10	22.27	22.14	22.20	22.19	
15	QPSK	36	0	22.22	22.37	22.14	22.29	22.37	23.3
15	QPSK	36	20	22.22	22.31	22.17	22.29	22.32	
15	QPSK	36	39	22.19	22.31	22.11	22.22	22.31	
15	QPSK	75	0	22.17	22.39	22.09	22.28	22.41	23.3
15	16QAM	1	0	22.22	22.40	22.29	22.28	22.49	
15	16QAM	1	37	22.04	22.33	22.18	22.12	22.34	
15	16QAM	1	74	22.17	22.26	22.23	22.22	22.29	23.3
15	16QAM	36	0	22.19	22.32	22.20	22.19	22.32	
15	16QAM	36	20	22.21	22.28	22.15	22.20	22.32	
15	16QAM	36	39	22.09	22.29	22.13	22.18	22.29	23.3
15	16QAM	75	0	22.20	22.27	22.17	22.29	22.30	
15	64QAM	1	0	22.00	21.95	21.81	22.09	22.27	
15	64QAM	1	37	22.03	22.04	21.84	22.02	22.08	23.3
15	64QAM	1	74	22.00	21.98	21.91	22.03	22.08	
15	64QAM	36	0	21.43	21.62	21.44	21.52	21.72	
15	64QAM	36	20	21.49	21.64	21.50	21.58	21.61	22.7
15	64QAM	36	39	21.43	21.54	21.39	21.54	21.60	
15	64QAM	75	0	21.43	21.62	21.46	21.48	21.65	
15	256QAM	1	0	19.22	19.21	19.23	19.15	19.23	20.7
15	256QAM	1	37	19.12	19.25	19.18	19.13	19.07	
15	256QAM	1	74	19.22	19.32	19.16	19.21	19.27	
15	256QAM	36	0	19.47	19.36	19.43	19.35	19.40	20.7
15	256QAM	36	20	19.33	19.43	19.28	19.38	19.36	
15	256QAM	36	39	19.36	19.35	19.24	19.39	19.28	



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15	256QAM	75	0	19.40	19.37	19.45	19.38	19.35	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.18	22.37	22.17	22.30	22.37	23.30
10	QPSK	1	25	22.16	22.24	22.06	22.18	22.25	
10	QPSK	1	49	22.11	22.27	22.07	22.24	22.25	
10	QPSK	25	0	22.20	22.33	22.13	22.29	22.39	23.3
10	QPSK	25	12	22.17	22.34	22.11	22.31	22.31	
10	QPSK	25	25	22.16	22.29	22.08	22.28	22.32	
10	QPSK	50	0	22.19	22.34	22.10	22.29	22.31	
10	16QAM	1	0	22.14	22.36	22.21	22.25	22.47	23.3
10	16QAM	1	25	22.08	22.31	22.17	22.19	22.40	
10	16QAM	1	49	22.16	22.31	22.26	22.19	22.37	
10	16QAM	25	0	22.20	22.27	22.15	22.24	22.36	23.3
10	16QAM	25	12	22.22	22.30	22.20	22.29	22.33	
10	16QAM	25	25	22.18	22.24	22.19	22.19	22.30	
10	16QAM	50	0	22.14	22.26	22.13	22.25	22.34	
10	64QAM	1	0	22.06	21.98	21.85	22.10	22.27	23.3
10	64QAM	1	25	22.03	21.96	21.78	22.01	22.08	
10	64QAM	1	49	21.92	21.92	21.83	21.99	22.05	
10	64QAM	25	0	21.43	21.61	21.46	21.56	21.68	22.7
10	64QAM	25	12	21.45	21.58	21.45	21.58	21.60	
10	64QAM	25	25	21.48	21.61	21.48	21.50	21.62	
10	64QAM	50	0	21.48	21.58	21.40	21.48	21.68	
10	256QAM	1	0	19.21	19.28	19.28	19.20	19.29	20.7
10	256QAM	1	25	19.16	19.21	19.21	19.18	19.16	
10	256QAM	1	49	19.21	19.23	19.25	19.21	19.19	
10	256QAM	25	0	19.46	19.40	19.41	19.29	19.49	20.7
10	256QAM	25	12	19.34	19.41	19.36	19.38	19.41	
10	256QAM	25	25	19.30	19.35	19.26	19.36	19.33	
10	256QAM	50	0	19.32	19.37	19.47	19.36	19.41	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	22.18	22.37	22.13	22.31	22.40	23.30
5	QPSK	1	12	22.11	22.31	22.15	22.18	22.23	
5	QPSK	1	24	22.07	22.28	22.10	22.21	22.27	
5	QPSK	12	0	22.22	22.31	22.16	22.31	22.36	23.3
5	QPSK	12	7	22.22	22.35	22.13	22.24	22.31	
5	QPSK	12	13	22.12	22.35	22.12	22.27	22.30	
5	QPSK	25	0	22.15	22.37	22.14	22.30	22.38	
5	16QAM	1	0	22.15	22.39	22.27	22.26	22.47	23.3
5	16QAM	1	12	22.14	22.26	22.13	22.20	22.35	
5	16QAM	1	24	22.07	22.29	22.24	22.19	22.33	
5	16QAM	12	0	22.24	22.33	22.17	22.26	22.37	23.3
5	16QAM	12	7	22.14	22.28	22.12	22.22	22.36	
5	16QAM	12	13	22.17	22.24	22.10	22.28	22.24	
5	16QAM	25	0	22.12	22.27	22.16	22.23	22.36	
5	64QAM	1	0	22.05	22.01	21.78	22.02	22.27	23.3
5	64QAM	1	12	22.01	21.98	21.84	22.06	22.16	
5	64QAM	1	24	21.91	21.91	21.87	22.08	22.07	
5	64QAM	12	0	21.52	21.62	21.49	21.58	21.65	22.7
5	64QAM	12	7	21.49	21.55	21.45	21.50	21.59	
5	64QAM	12	13	21.45	21.60	21.41	21.50	21.62	
5	64QAM	25	0	21.47	21.59	21.44	21.53	21.62	
5	256QAM	1	0	19.28	19.22	19.21	19.22	19.21	20.7
5	256QAM	1	12	19.15	19.22	19.20	19.13	19.11	
5	256QAM	1	24	19.23	19.29	19.18	19.26	19.17	
5	256QAM	12	0	19.47	19.36	19.33	19.37	19.43	20.7
5	256QAM	12	7	19.37	19.35	19.31	19.33	19.36	
5	256QAM	12	13	19.37	19.34	19.31	19.34	19.24	
5	256QAM	25	0	19.40	19.34	19.40	19.29	19.35	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.26	22.40	22.22	22.31	22.39	23.7
20	QPSK	1	49	22.17	22.31	22.15	22.26	22.33	
20	QPSK	1	99	22.15	22.30	22.17	22.26	22.29	
20	QPSK	50	0	22.28	22.45	22.21	22.34	22.44	23.7
20	QPSK	50	24	22.26	22.37	22.19	22.33	22.40	
20	QPSK	50	50	22.22	22.36	22.16	22.32	22.37	
20	QPSK	100	0	22.23	22.42	22.16	22.34	22.41	23.7
20	16QAM	1	0	22.22	22.44	22.31	22.34	22.56	
20	16QAM	1	49	22.14	22.34	22.20	22.22	22.42	
20	16QAM	1	99	22.17	22.34	22.27	22.27	22.37	23.7
20	16QAM	50	0	22.24	22.35	22.20	22.29	22.42	
20	16QAM	50	24	22.22	22.33	22.20	22.29	22.38	
20	16QAM	50	50	22.18	22.33	22.19	22.28	22.34	23.7
20	16QAM	100	0	22.22	22.35	22.20	22.31	22.40	
20	64QAM	1	0	22.06	22.02	21.87	22.12	22.29	
20	64QAM	1	49	22.07	22.06	21.88	22.11	22.18	23.7
20	64QAM	1	99	22.01	22.01	21.92	22.08	22.15	
20	64QAM	50	0	21.53	21.67	21.52	21.61	21.73	
20	64QAM	50	24	21.55	21.64	21.50	21.60	21.69	22.7
20	64QAM	50	50	21.50	21.61	21.48	21.56	21.65	
20	64QAM	100	0	21.53	21.63	21.49	21.58	21.69	
20	256QAM	1	0	19.28	19.30	19.30	19.25	19.30	20.7
20	256QAM	1	49	19.19	19.27	19.21	19.18	19.17	
20	256QAM	1	99	19.24	19.33	19.25	19.26	19.27	
20	256QAM	50	0	19.51	19.44	19.43	19.38	19.50	20.7
20	256QAM	50	24	19.43	19.44	19.36	19.42	19.44	
20	256QAM	50	50	19.37	19.44	19.33	19.40	19.33	
20	256QAM	100	0	19.42	19.43	19.47	19.38	19.41	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.20	22.30	22.19	22.25	22.40	23.70
15	QPSK	1	37	22.09	22.21	22.12	22.25	22.29	
15	QPSK	1	74	22.10	22.27	22.14	22.20	22.19	
15	QPSK	36	0	22.22	22.37	22.14	22.29	22.37	23.7
15	QPSK	36	20	22.22	22.31	22.17	22.29	22.32	
15	QPSK	36	39	22.19	22.31	22.11	22.22	22.31	
15	QPSK	75	0	22.17	22.39	22.09	22.28	22.41	23.7
15	16QAM	1	0	22.22	22.40	22.29	22.28	22.49	
15	16QAM	1	37	22.04	22.33	22.18	22.12	22.34	
15	16QAM	1	74	22.17	22.26	22.23	22.22	22.29	23.7
15	16QAM	36	0	22.19	22.32	22.20	22.19	22.32	
15	16QAM	36	20	22.21	22.28	22.15	22.20	22.32	
15	16QAM	36	39	22.09	22.29	22.13	22.18	22.29	23.7
15	16QAM	75	0	22.20	22.27	22.17	22.29	22.30	
15	64QAM	1	0	22.00	21.95	21.81	22.09	22.27	
15	64QAM	1	37	22.03	22.04	21.84	22.02	22.08	23.7
15	64QAM	1	74	22.00	21.98	21.91	22.03	22.08	
15	64QAM	36	0	21.43	21.62	21.44	21.52	21.72	
15	64QAM	36	20	21.49	21.64	21.50	21.58	21.61	22.7
15	64QAM	36	39	21.43	21.54	21.39	21.54	21.60	
15	64QAM	75	0	21.43	21.62	21.46	21.48	21.65	
15	256QAM	1	0	19.22	19.21	19.23	19.15	19.23	20.7
15	256QAM	1	37	19.12	19.25	19.18	19.13	19.07	
15	256QAM	1	74	19.22	19.32	19.16	19.21	19.27	
15	256QAM	36	0	19.47	19.36	19.43	19.35	19.40	20.7
15	256QAM	36	20	19.33	19.43	19.28	19.38	19.36	
15	256QAM	36	39	19.36	19.35	19.24	19.39	19.28	



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15	256QAM	75	0	19.40	19.37	19.45	19.38	19.35	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.18	22.37	22.17	22.30	22.37	23.70
10	QPSK	1	25	22.16	22.24	22.06	22.18	22.25	
10	QPSK	1	49	22.11	22.27	22.07	22.24	22.25	
10	QPSK	25	0	22.20	22.33	22.13	22.29	22.39	23.7
10	QPSK	25	12	22.17	22.34	22.11	22.31	22.31	
10	QPSK	25	25	22.16	22.29	22.08	22.28	22.32	
10	QPSK	50	0	22.19	22.34	22.10	22.29	22.31	
10	16QAM	1	0	22.14	22.36	22.21	22.25	22.47	23.7
10	16QAM	1	25	22.08	22.31	22.17	22.19	22.40	
10	16QAM	1	49	22.16	22.31	22.26	22.19	22.37	
10	16QAM	25	0	22.20	22.27	22.15	22.24	22.36	23.7
10	16QAM	25	12	22.22	22.30	22.20	22.29	22.33	
10	16QAM	25	25	22.18	22.24	22.19	22.19	22.30	
10	16QAM	50	0	22.14	22.26	22.13	22.25	22.34	
10	64QAM	1	0	22.06	21.98	21.85	22.10	22.27	23.7
10	64QAM	1	25	22.03	21.96	21.78	22.01	22.08	
10	64QAM	1	49	21.92	21.92	21.83	21.99	22.05	
10	64QAM	25	0	21.43	21.61	21.46	21.56	21.68	22.7
10	64QAM	25	12	21.45	21.58	21.45	21.58	21.60	
10	64QAM	25	25	21.48	21.61	21.48	21.50	21.62	
10	64QAM	50	0	21.48	21.58	21.40	21.48	21.68	
10	256QAM	1	0	19.21	19.28	19.28	19.20	19.29	20.7
10	256QAM	1	25	19.16	19.21	19.21	19.18	19.16	
10	256QAM	1	49	19.21	19.23	19.25	19.21	19.19	
10	256QAM	25	0	19.46	19.40	19.41	19.29	19.49	20.7
10	256QAM	25	12	19.34	19.41	19.36	19.38	19.41	
10	256QAM	25	25	19.30	19.35	19.26	19.36	19.33	
10	256QAM	50	0	19.32	19.37	19.47	19.36	19.41	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	22.18	22.37	22.13	22.31	22.40	23.70
5	QPSK	1	12	22.11	22.31	22.15	22.18	22.23	
5	QPSK	1	24	22.07	22.28	22.10	22.21	22.27	
5	QPSK	12	0	22.22	22.31	22.16	22.31	22.36	23.7
5	QPSK	12	7	22.22	22.35	22.13	22.24	22.31	
5	QPSK	12	13	22.12	22.35	22.12	22.27	22.30	
5	QPSK	25	0	22.15	22.37	22.14	22.30	22.38	
5	16QAM	1	0	22.15	22.39	22.27	22.26	22.47	23.7
5	16QAM	1	12	22.14	22.26	22.13	22.20	22.35	
5	16QAM	1	24	22.07	22.29	22.24	22.19	22.33	
5	16QAM	12	0	22.24	22.33	22.17	22.26	22.37	23.7
5	16QAM	12	7	22.14	22.28	22.12	22.22	22.36	
5	16QAM	12	13	22.17	22.24	22.10	22.28	22.24	
5	16QAM	25	0	22.12	22.27	22.16	22.23	22.36	
5	64QAM	1	0	22.05	22.01	21.78	22.02	22.27	23.7
5	64QAM	1	12	22.01	21.98	21.84	22.06	22.16	
5	64QAM	1	24	21.91	21.91	21.87	22.08	22.07	
5	64QAM	12	0	21.52	21.62	21.49	21.58	21.65	22.7
5	64QAM	12	7	21.49	21.55	21.45	21.50	21.59	
5	64QAM	12	13	21.45	21.60	21.41	21.50	21.62	
5	64QAM	25	0	21.47	21.59	21.44	21.53	21.62	
5	256QAM	1	0	19.28	19.22	19.21	19.22	19.21	20.7
5	256QAM	1	12	19.15	19.22	19.20	19.13	19.11	
5	256QAM	1	24	19.23	19.29	19.18	19.26	19.17	
5	256QAM	12	0	19.47	19.36	19.33	19.37	19.43	20.7
5	256QAM	12	7	19.37	19.35	19.31	19.33	19.36	
5	256QAM	12	13	19.37	19.34	19.31	19.34	19.24	
5	256QAM	25	0	19.40	19.34	19.40	19.29	19.35	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.26	22.40	22.22	22.31	22.39	23.7
20	QPSK	1	49	22.17	22.31	22.15	22.26	22.33	
20	QPSK	1	99	22.15	22.30	22.17	22.26	22.29	
20	QPSK	50	0	22.28	22.45	22.21	22.34	22.44	23.7
20	QPSK	50	24	22.26	22.37	22.19	22.33	22.40	
20	QPSK	50	50	22.22	22.36	22.16	22.32	22.37	
20	QPSK	100	0	22.23	22.42	22.16	22.34	22.41	23.7
20	16QAM	1	0	22.22	22.44	22.31	22.34	22.56	
20	16QAM	1	49	22.14	22.34	22.20	22.22	22.42	
20	16QAM	1	99	22.17	22.34	22.27	22.27	22.37	23.7
20	16QAM	50	0	22.24	22.35	22.20	22.29	22.42	
20	16QAM	50	24	22.22	22.33	22.20	22.29	22.38	
20	16QAM	50	50	22.18	22.33	22.19	22.28	22.34	23.7
20	16QAM	100	0	22.22	22.35	22.20	22.31	22.40	
20	64QAM	1	0	22.06	22.02	21.87	22.12	22.29	
20	64QAM	1	49	22.07	22.06	21.88	22.11	22.18	23.7
20	64QAM	1	99	22.01	22.01	21.92	22.08	22.15	
20	64QAM	50	0	21.53	21.67	21.52	21.61	21.73	
20	64QAM	50	24	21.55	21.64	21.50	21.60	21.69	22.7
20	64QAM	50	50	21.50	21.61	21.48	21.56	21.65	
20	64QAM	100	0	21.53	21.63	21.49	21.58	21.69	
20	256QAM	1	0	19.28	19.30	19.30	19.25	19.30	20.7
20	256QAM	1	49	19.19	19.27	19.21	19.18	19.17	
20	256QAM	1	99	19.24	19.33	19.25	19.26	19.27	
20	256QAM	50	0	19.51	19.44	19.43	19.38	19.50	20.7
20	256QAM	50	24	19.43	19.44	19.36	19.42	19.44	
20	256QAM	50	50	19.37	19.44	19.33	19.40	19.33	
20	256QAM	100	0	19.42	19.43	19.47	19.38	19.41	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.20	22.30	22.19	22.25	22.40	23.70
15	QPSK	1	37	22.09	22.21	22.12	22.25	22.29	
15	QPSK	1	74	22.10	22.27	22.14	22.20	22.19	
15	QPSK	36	0	22.22	22.37	22.14	22.29	22.37	23.7
15	QPSK	36	20	22.22	22.31	22.17	22.29	22.32	
15	QPSK	36	39	22.19	22.31	22.11	22.22	22.31	
15	QPSK	75	0	22.17	22.39	22.09	22.28	22.41	23.7
15	16QAM	1	0	22.22	22.40	22.29	22.28	22.49	
15	16QAM	1	37	22.04	22.33	22.18	22.12	22.34	
15	16QAM	1	74	22.17	22.26	22.23	22.22	22.29	23.7
15	16QAM	36	0	22.19	22.32	22.20	22.19	22.32	
15	16QAM	36	20	22.21	22.28	22.15	22.20	22.32	
15	16QAM	36	39	22.09	22.29	22.13	22.18	22.29	23.7
15	16QAM	75	0	22.20	22.27	22.17	22.29	22.30	
15	64QAM	1	0	22.00	21.95	21.81	22.09	22.27	
15	64QAM	1	37	22.03	22.04	21.84	22.02	22.08	23.7
15	64QAM	1	74	22.00	21.98	21.91	22.03	22.08	
15	64QAM	36	0	21.43	21.62	21.44	21.52	21.72	
15	64QAM	36	20	21.49	21.64	21.50	21.58	21.61	22.7
15	64QAM	36	39	21.43	21.54	21.39	21.54	21.60	
15	64QAM	75	0	21.43	21.62	21.46	21.48	21.65	
15	256QAM	1	0	19.22	19.21	19.23	19.15	19.23	20.7
15	256QAM	1	37	19.12	19.25	19.18	19.13	19.07	
15	256QAM	1	74	19.22	19.32	19.16	19.21	19.27	
15	256QAM	36	0	19.47	19.36	19.43	19.35	19.40	20.7
15	256QAM	36	20	19.33	19.43	19.28	19.38	19.36	
15	256QAM	36	39	19.36	19.35	19.24	19.39	19.28	



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15	256QAM	75	0	19.40	19.37	19.45	19.38	19.35	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.18	22.37	22.17	22.30	22.37	23.70
10	QPSK	1	25	22.16	22.24	22.06	22.18	22.25	
10	QPSK	1	49	22.11	22.27	22.07	22.24	22.25	
10	QPSK	25	0	22.20	22.33	22.13	22.29	22.39	23.7
10	QPSK	25	12	22.17	22.34	22.11	22.31	22.31	
10	QPSK	25	25	22.16	22.29	22.08	22.28	22.32	
10	QPSK	50	0	22.19	22.34	22.10	22.29	22.31	
10	16QAM	1	0	22.14	22.36	22.21	22.25	22.47	23.7
10	16QAM	1	25	22.08	22.31	22.17	22.19	22.40	
10	16QAM	1	49	22.16	22.31	22.26	22.19	22.37	
10	16QAM	25	0	22.20	22.27	22.15	22.24	22.36	23.7
10	16QAM	25	12	22.22	22.30	22.20	22.29	22.33	
10	16QAM	25	25	22.18	22.24	22.19	22.19	22.30	
10	16QAM	50	0	22.14	22.26	22.13	22.25	22.34	
10	64QAM	1	0	22.06	21.98	21.85	22.10	22.27	23.7
10	64QAM	1	25	22.03	21.96	21.78	22.01	22.08	
10	64QAM	1	49	21.92	21.92	21.83	21.99	22.05	
10	64QAM	25	0	21.43	21.61	21.46	21.56	21.68	22.7
10	64QAM	25	12	21.45	21.58	21.45	21.58	21.60	
10	64QAM	25	25	21.48	21.61	21.48	21.50	21.62	
10	64QAM	50	0	21.48	21.58	21.40	21.48	21.68	
10	256QAM	1	0	19.21	19.28	19.28	19.20	19.29	20.7
10	256QAM	1	25	19.16	19.21	19.21	19.18	19.16	
10	256QAM	1	49	19.21	19.23	19.25	19.21	19.19	
10	256QAM	25	0	19.46	19.40	19.41	19.29	19.49	20.7
10	256QAM	25	12	19.34	19.41	19.36	19.38	19.41	
10	256QAM	25	25	19.30	19.35	19.26	19.36	19.33	
10	256QAM	50	0	19.32	19.37	19.47	19.36	19.41	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	22.18	22.37	22.13	22.31	22.40	23.70
5	QPSK	1	12	22.11	22.31	22.15	22.18	22.23	
5	QPSK	1	24	22.07	22.28	22.10	22.21	22.27	
5	QPSK	12	0	22.22	22.31	22.16	22.31	22.36	23.7
5	QPSK	12	7	22.22	22.35	22.13	22.24	22.31	
5	QPSK	12	13	22.12	22.35	22.12	22.27	22.30	
5	QPSK	25	0	22.15	22.37	22.14	22.30	22.38	
5	16QAM	1	0	22.15	22.39	22.27	22.26	22.47	23.7
5	16QAM	1	12	22.14	22.26	22.13	22.20	22.35	
5	16QAM	1	24	22.07	22.29	22.24	22.19	22.33	
5	16QAM	12	0	22.24	22.33	22.17	22.26	22.37	23.7
5	16QAM	12	7	22.14	22.28	22.12	22.22	22.36	
5	16QAM	12	13	22.17	22.24	22.10	22.28	22.24	
5	16QAM	25	0	22.12	22.27	22.16	22.23	22.36	
5	64QAM	1	0	22.05	22.01	21.78	22.02	22.27	23.7
5	64QAM	1	12	22.01	21.98	21.84	22.06	22.16	
5	64QAM	1	24	21.91	21.91	21.87	22.08	22.07	
5	64QAM	12	0	21.52	21.62	21.49	21.58	21.65	22.7
5	64QAM	12	7	21.49	21.55	21.45	21.50	21.59	
5	64QAM	12	13	21.45	21.60	21.41	21.50	21.62	
5	64QAM	25	0	21.47	21.59	21.44	21.53	21.62	
5	256QAM	1	0	19.28	19.22	19.21	19.22	19.21	20.7
5	256QAM	1	12	19.15	19.22	19.20	19.13	19.11	
5	256QAM	1	24	19.23	19.29	19.18	19.26	19.17	
5	256QAM	12	0	19.47	19.36	19.33	19.37	19.43	20.7
5	256QAM	12	7	19.37	19.35	19.31	19.33	19.36	
5	256QAM	12	13	19.37	19.34	19.31	19.34	19.24	
5	256QAM	25	0	19.40	19.34	19.40	19.29	19.35	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.30	26.48	26.29	26.25	26.31	27.5
20	QPSK	1	49	26.29	26.40	26.20	26.21	26.28	
20	QPSK	1	99	26.07	26.25	26.09	26.06	26.09	
20	QPSK	50	0	25.26	25.39	25.14	25.22	25.26	26.5
20	QPSK	50	24	25.24	25.38	25.13	25.21	25.25	
20	QPSK	50	50	25.21	25.34	25.12	25.21	25.21	
20	QPSK	100	0	25.23	25.34	25.12	25.18	25.22	26.5
20	16QAM	1	0	25.66	25.84	25.39	25.69	25.69	
20	16QAM	1	49	25.98	25.99	25.85	25.91	26.00	
20	16QAM	1	99	25.70	25.70	25.60	25.63	25.71	25.5
20	16QAM	50	0	24.23	24.33	24.13	24.17	24.22	
20	16QAM	50	24	24.18	24.36	24.15	24.12	24.19	
20	16QAM	50	50	24.18	24.31	24.16	24.16	24.16	25.5
20	16QAM	100	0	24.23	24.37	24.18	24.20	24.23	
20	64QAM	1	0	24.32	24.32	24.48	24.18	24.26	
20	64QAM	1	49	24.36	24.41	24.52	24.10	24.13	24.5
20	64QAM	1	99	24.28	24.40	24.46	24.17	24.21	
20	64QAM	50	0	23.22	23.33	23.19	23.21	23.22	
20	64QAM	50	24	23.20	23.33	23.15	23.16	23.20	22.5
20	64QAM	50	50	23.20	23.31	23.14	23.16	23.17	
20	64QAM	100	0	23.24	23.33	23.15	23.18	23.23	
20	256QAM	1	0	21.05	21.14	21.08	21.12	21.14	22.5
20	256QAM	1	49	21.06	21.09	21.05	21.00	20.99	
20	256QAM	1	99	20.89	20.95	20.93	20.95	20.87	
20	256QAM	50	0	21.25	21.31	21.29	21.30	21.31	22.5
20	256QAM	50	24	21.27	21.29	21.26	21.28	21.21	
20	256QAM	50	50	21.26	21.27	21.19	21.17	21.24	
20	256QAM	100	0	21.11	21.20	21.15	21.18	21.10	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	26.18	26.24	26.13	26.06	26.22	27.50
15	QPSK	1	37	26.41	26.47	26.43	26.28	26.33	
15	QPSK	1	74	26.10	26.25	26.08	26.01	26.04	
15	QPSK	36	0	25.20	25.31	25.12	25.16	25.21	26.5
15	QPSK	36	20	25.17	25.33	25.10	25.17	25.17	
15	QPSK	36	39	25.17	25.31	25.14	25.17	25.18	
15	QPSK	75	0	25.18	25.32	25.13	25.15	25.22	26.5
15	16QAM	1	0	25.38	25.46	25.40	25.26	25.34	
15	16QAM	1	37	25.59	25.67	25.56	25.28	25.35	
15	16QAM	1	74	25.40	25.54	25.40	25.20	25.26	25.5
15	16QAM	36	0	24.12	24.21	24.07	24.11	24.11	
15	16QAM	36	20	24.13	24.26	24.09	24.12	24.14	
15	16QAM	36	39	24.15	24.26	24.11	24.10	24.14	25.5
15	16QAM	75	0	24.18	24.33	24.16	24.11	24.23	
15	64QAM	1	0	24.16	24.53	24.38	24.16	24.26	
15	64QAM	1	37	24.16	24.42	24.15	24.06	24.12	24.5
15	64QAM	1	74	24.15	24.26	24.16	24.13	24.19	
15	64QAM	36	0	23.19	23.33	23.17	23.14	23.19	
15	64QAM	36	20	23.21	23.30	23.13	23.15	23.20	22.5
15	64QAM	36	39	23.21	23.31	23.16	23.14	23.20	
15	64QAM	75	0	23.15	23.28	23.11	23.09	23.20	
15	256QAM	1	0	21.05	21.08	21.03	21.06	21.10	22.5
15	256QAM	1	37	21.06	21.01	20.95	20.97	20.99	
15	256QAM	1	74	20.84	20.88	20.88	20.85	20.78	
15	256QAM	36	0	21.22	21.30	21.22	21.28	21.28	22.5
15	256QAM	36	20	21.19	21.24	21.17	21.28	21.15	
15	256QAM	36	39	21.20	21.22	21.16	21.08	21.23	



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15	256QAM	75	0	21.10	21.15	21.10	21.17	21.09	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	26.17	26.33	26.13	26.16	26.22	27.50
10	QPSK	1	25	26.09	26.26	26.07	26.10	26.15	
10	QPSK	1	49	26.16	26.32	26.16	26.19	26.22	
10	QPSK	25	0	25.21	25.34	25.16	25.19	25.25	26.5
10	QPSK	25	12	25.24	25.35	25.16	25.19	25.25	
10	QPSK	25	25	25.22	25.35	25.14	25.22	25.25	
10	QPSK	50	0	25.33	25.44	25.17	25.30	25.33	26.5
10	16QAM	1	0	25.42	25.56	25.28	25.35	25.57	
10	16QAM	1	25	25.34	25.49	25.36	25.34	25.45	
10	16QAM	1	49	25.37	25.49	25.38	25.33	25.41	25.5
10	16QAM	25	0	24.23	24.31	24.27	24.18	24.34	
10	16QAM	25	12	24.28	24.41	24.27	24.22	24.33	
10	16QAM	25	25	24.31	24.39	24.31	24.18	24.30	25.5
10	16QAM	50	0	24.28	24.39	24.22	24.29	24.34	
10	64QAM	1	0	24.49	24.53	24.60	24.55	24.67	
10	64QAM	1	25	24.66	24.56	24.48	24.58	24.73	25.5
10	64QAM	1	49	24.75	24.83	24.49	24.63	24.76	
10	64QAM	25	0	23.31	23.35	23.23	23.24	23.29	
10	64QAM	25	12	23.31	23.37	23.23	23.23	23.35	24.5
10	64QAM	25	25	23.32	23.38	23.22	23.21	23.31	
10	64QAM	50	0	23.32	23.41	23.23	23.26	23.29	
10	256QAM	1	0	20.99	21.09	21.05	21.10	21.09	22.5
10	256QAM	1	25	21.04	21.07	20.95	20.95	20.99	
10	256QAM	1	49	20.84	20.95	20.85	20.94	20.81	
10	256QAM	25	0	21.17	21.28	21.28	21.27	21.27	22.5
10	256QAM	25	12	21.19	21.25	21.16	21.19	21.13	
10	256QAM	25	25	21.16	21.18	21.09	21.10	21.17	
10	256QAM	50	0	21.08	21.14	21.12	21.16	21.04	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	26.21	26.34	26.19	26.20	26.25	27.50
5	QPSK	1	12	26.17	26.42	26.16	25.96	26.17	
5	QPSK	1	24	26.19	26.35	26.15	26.18	26.23	
5	QPSK	12	0	25.22	25.36	25.20	25.20	25.26	26.5
5	QPSK	12	7	25.23	25.39	25.22	25.19	25.26	
5	QPSK	12	13	25.22	25.35	25.19	25.20	25.24	
5	QPSK	25	0	25.20	25.32	25.14	25.19	25.23	26.5
5	16QAM	1	0	25.54	25.65	25.52	25.56	25.68	
5	16QAM	1	12	25.39	25.49	25.43	25.16	25.46	
5	16QAM	1	24	25.62	25.52	25.40	25.55	25.66	25.5
5	16QAM	12	0	24.25	24.34	24.22	24.16	24.23	
5	16QAM	12	7	24.25	24.38	24.25	24.15	24.26	
5	16QAM	12	13	24.27	24.36	24.26	24.18	24.22	25.5
5	16QAM	25	0	24.31	24.41	24.29	24.26	24.33	
5	64QAM	1	0	24.41	24.79	24.57	24.22	24.31	
5	64QAM	1	12	24.14	24.37	23.97	23.99	24.29	24.5
5	64QAM	1	24	24.54	24.42	24.31	24.23	24.29	
5	64QAM	12	0	23.27	23.39	23.35	23.17	23.29	
5	64QAM	12	7	23.33	23.45	23.36	23.16	23.27	22.5
5	64QAM	12	13	23.35	23.44	23.34	23.14	23.24	
5	64QAM	25	0	23.24	23.35	23.22	23.14	23.24	
5	256QAM	1	0	20.97	21.12	21.06	21.09	21.12	22.5
5	256QAM	1	12	20.97	21.00	21.00	20.94	20.96	
5	256QAM	1	24	20.87	20.91	20.84	20.85	20.87	
5	256QAM	12	0	21.25	21.27	21.25	21.20	21.21	22.5
5	256QAM	12	7	21.25	21.21	21.18	21.25	21.14	
5	256QAM	12	13	21.20	21.18	21.13	21.12	21.18	
5	256QAM	25	0	21.07	21.20	21.15	21.18	21.08	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.30	26.48	26.29	26.25	26.31	26.6
20	QPSK	1	49	26.29	26.40	26.20	26.21	26.28	
20	QPSK	1	99	26.07	26.25	26.09	26.06	26.09	
20	QPSK	50	0	25.26	25.39	25.14	25.22	25.26	26.5
20	QPSK	50	24	25.24	25.38	25.13	25.21	25.25	
20	QPSK	50	50	25.21	25.34	25.12	25.21	25.21	
20	QPSK	100	0	25.23	25.34	25.12	25.18	25.22	26.5
20	16QAM	1	0	25.66	25.84	25.39	25.69	25.69	
20	16QAM	1	49	25.98	25.99	25.85	25.91	26.00	
20	16QAM	1	99	25.70	25.70	25.60	25.63	25.71	25.5
20	16QAM	50	0	24.23	24.33	24.13	24.17	24.22	
20	16QAM	50	24	24.18	24.36	24.15	24.12	24.19	
20	16QAM	50	50	24.18	24.31	24.16	24.16	24.16	25.5
20	16QAM	100	0	24.23	24.37	24.18	24.20	24.23	
20	64QAM	1	0	24.32	24.32	24.48	24.18	24.26	
20	64QAM	1	49	24.36	24.41	24.52	24.10	24.13	24.5
20	64QAM	1	99	24.28	24.40	24.46	24.17	24.21	
20	64QAM	50	0	23.22	23.33	23.19	23.21	23.22	
20	64QAM	50	24	23.20	23.33	23.15	23.16	23.20	22.5
20	64QAM	50	50	23.20	23.31	23.14	23.16	23.17	
20	64QAM	100	0	23.24	23.33	23.15	23.18	23.23	
20	256QAM	1	0	21.05	21.14	21.08	21.12	21.14	22.5
20	256QAM	1	49	21.06	21.09	21.05	21.00	20.99	
20	256QAM	1	99	20.89	20.95	20.93	20.95	20.87	
20	256QAM	50	0	21.25	21.31	21.29	21.30	21.31	22.5
20	256QAM	50	24	21.27	21.29	21.26	21.28	21.21	
20	256QAM	50	50	21.26	21.27	21.19	21.17	21.24	
20	256QAM	100	0	21.11	21.20	21.15	21.18	21.10	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	26.18	26.24	26.13	26.06	26.22	26.60
15	QPSK	1	37	26.41	26.47	26.43	26.28	26.33	
15	QPSK	1	74	26.10	26.25	26.08	26.01	26.04	
15	QPSK	36	0	25.20	25.31	25.12	25.16	25.21	26.5
15	QPSK	36	20	25.17	25.33	25.10	25.17	25.17	
15	QPSK	36	39	25.17	25.31	25.14	25.17	25.18	
15	QPSK	75	0	25.18	25.32	25.13	25.15	25.22	26.5
15	16QAM	1	0	25.38	25.46	25.40	25.26	25.34	
15	16QAM	1	37	25.59	25.67	25.56	25.28	25.35	
15	16QAM	1	74	25.40	25.54	25.40	25.20	25.26	25.5
15	16QAM	36	0	24.12	24.21	24.07	24.11	24.11	
15	16QAM	36	20	24.13	24.26	24.09	24.12	24.14	
15	16QAM	36	39	24.15	24.26	24.11	24.10	24.14	25.5
15	16QAM	75	0	24.18	24.33	24.16	24.11	24.23	
15	64QAM	1	0	24.16	24.53	24.38	24.16	24.26	
15	64QAM	1	37	24.16	24.42	24.15	24.06	24.12	24.5
15	64QAM	1	74	24.15	24.26	24.16	24.13	24.19	
15	64QAM	36	0	23.19	23.33	23.17	23.14	23.19	
15	64QAM	36	20	23.21	23.30	23.13	23.15	23.20	22.5
15	64QAM	36	39	23.21	23.31	23.16	23.14	23.20	
15	64QAM	75	0	23.15	23.28	23.11	23.09	23.20	
15	256QAM	1	0	21.05	21.08	21.03	21.06	21.10	22.5
15	256QAM	1	37	21.06	21.01	20.95	20.97	20.99	
15	256QAM	1	74	20.84	20.88	20.88	20.85	20.78	
15	256QAM	36	0	21.22	21.30	21.22	21.28	21.28	22.5
15	256QAM	36	20	21.19	21.24	21.17	21.28	21.15	
15	256QAM	36	39	21.20	21.22	21.16	21.08	21.23	



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15	256QAM	75	0	21.10	21.15	21.10	21.17	21.09	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	26.17	26.33	26.13	26.16	26.22	26.60
10	QPSK	1	25	26.09	26.26	26.07	26.10	26.15	
10	QPSK	1	49	26.16	26.32	26.16	26.19	26.22	
10	QPSK	25	0	25.21	25.34	25.16	25.19	25.25	26.5
10	QPSK	25	12	25.24	25.35	25.16	25.19	25.25	
10	QPSK	25	25	25.22	25.35	25.14	25.22	25.25	
10	QPSK	50	0	25.33	25.44	25.17	25.30	25.33	26.5
10	16QAM	1	0	25.42	25.56	25.28	25.35	25.57	
10	16QAM	1	25	25.34	25.49	25.36	25.34	25.45	
10	16QAM	1	49	25.37	25.49	25.38	25.33	25.41	25.5
10	16QAM	25	0	24.23	24.31	24.27	24.18	24.34	
10	16QAM	25	12	24.28	24.41	24.27	24.22	24.33	
10	16QAM	25	25	24.31	24.39	24.31	24.18	24.30	25.5
10	16QAM	50	0	24.28	24.39	24.22	24.29	24.34	
10	64QAM	1	0	24.49	24.53	24.60	24.55	24.67	
10	64QAM	1	25	24.66	24.56	24.48	24.58	24.73	25.5
10	64QAM	1	49	24.75	24.83	24.49	24.63	24.76	
10	64QAM	25	0	23.31	23.35	23.23	23.24	23.29	
10	64QAM	25	12	23.31	23.37	23.23	23.23	23.35	24.5
10	64QAM	25	25	23.32	23.38	23.22	23.21	23.31	
10	64QAM	50	0	23.32	23.41	23.23	23.26	23.29	
10	256QAM	1	0	20.99	21.09	21.05	21.10	21.09	22.5
10	256QAM	1	25	21.04	21.07	20.95	20.95	20.99	
10	256QAM	1	49	20.84	20.95	20.85	20.94	20.81	
10	256QAM	25	0	21.17	21.28	21.28	21.27	21.27	22.5
10	256QAM	25	12	21.19	21.25	21.16	21.19	21.13	
10	256QAM	25	25	21.16	21.18	21.09	21.10	21.17	
10	256QAM	50	0	21.08	21.14	21.12	21.16	21.04	Tune-up limit (dBm)
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	26.21	26.34	26.19	26.20	26.25	26.60
5	QPSK	1	12	26.17	26.42	26.16	25.96	26.17	
5	QPSK	1	24	26.19	26.35	26.15	26.18	26.23	
5	QPSK	12	0	25.22	25.36	25.20	25.20	25.26	26.5
5	QPSK	12	7	25.23	25.39	25.22	25.19	25.26	
5	QPSK	12	13	25.22	25.35	25.19	25.20	25.24	
5	QPSK	25	0	25.20	25.32	25.14	25.19	25.23	26.5
5	16QAM	1	0	25.54	25.65	25.52	25.56	25.68	
5	16QAM	1	12	25.39	25.49	25.43	25.16	25.46	
5	16QAM	1	24	25.62	25.52	25.40	25.55	25.66	25.5
5	16QAM	12	0	24.25	24.34	24.22	24.16	24.23	
5	16QAM	12	7	24.25	24.38	24.25	24.15	24.26	
5	16QAM	12	13	24.27	24.36	24.26	24.18	24.22	25.5
5	16QAM	25	0	24.31	24.41	24.29	24.26	24.33	
5	64QAM	1	0	24.41	24.79	24.57	24.22	24.31	
5	64QAM	1	12	24.14	24.37	23.97	23.99	24.29	24.5
5	64QAM	1	24	24.54	24.42	24.31	24.23	24.29	
5	64QAM	12	0	23.27	23.39	23.35	23.17	23.29	
5	64QAM	12	7	23.33	23.45	23.36	23.16	23.27	22.5
5	64QAM	12	13	23.35	23.44	23.34	23.14	23.24	
5	64QAM	25	0	23.24	23.35	23.22	23.14	23.24	
5	256QAM	1	0	20.97	21.12	21.06	21.09	21.12	22.5
5	256QAM	1	12	20.97	21.00	21.00	20.94	20.96	
5	256QAM	1	24	20.87	20.91	20.84	20.85	20.87	
5	256QAM	12	0	21.25	21.27	21.25	21.20	21.21	22.5
5	256QAM	12	7	21.25	21.21	21.18	21.25	21.14	
5	256QAM	12	13	21.20	21.18	21.13	21.12	21.18	
5	256QAM	25	0	21.07	21.20	21.15	21.18	21.08	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.70	23.87	23.70	23.75	23.86	24.9
20	QPSK	1	49	23.68	23.78	23.69	23.74	23.72	
20	QPSK	1	99	23.62	23.75	23.67	23.70	23.67	
20	QPSK	50	0	23.77	23.92	23.71	23.88	23.91	24.9
20	QPSK	50	24	23.72	23.88	23.69	23.87	23.86	
20	QPSK	50	50	23.70	23.86	23.68	23.86	23.82	
20	QPSK	100	0	23.73	23.87	23.71	23.84	23.86	24.9
20	16QAM	1	0	23.86	24.14	24.08	23.90	24.26	
20	16QAM	1	49	23.59	23.72	23.65	23.67	23.90	
20	16QAM	1	99	23.72	23.85	23.83	23.78	24.11	24.9
20	16QAM	50	0	23.75	23.86	23.71	23.84	23.90	
20	16QAM	50	24	23.71	23.84	23.70	23.82	23.87	
20	16QAM	50	50	23.69	23.82	23.69	23.80	23.84	24.9
20	16QAM	100	0	23.74	23.83	23.74	23.81	23.83	
20	64QAM	1	0	23.86	23.88	23.86	23.83	23.91	
20	64QAM	1	49	23.80	23.87	23.85	23.83	23.71	24.9
20	64QAM	1	99	23.65	23.77	23.74	23.69	23.64	
20	64QAM	50	0	24.05	24.18	24.02	24.15	24.17	
20	64QAM	50	24	24.02	24.14	24.01	24.14	24.13	24.5
20	64QAM	50	50	23.99	24.12	24.02	24.10	24.10	
20	64QAM	100	0	24.01	24.12	24.03	24.09	24.14	
20	256QAM	1	0	20.96	21.00	20.92	21.02	21.00	22.5
20	256QAM	1	49	21.05	20.99	21.01	20.89	20.91	
20	256QAM	1	99	20.77	20.85	20.80	20.88	20.74	
20	256QAM	50	0	21.22	21.20	21.19	21.16	21.28	22.5
20	256QAM	50	24	21.21	21.28	21.15	21.18	21.21	
20	256QAM	50	50	21.20	21.15	21.13	21.12	21.17	
20	256QAM	100	0	21.05	21.15	21.02	21.16	20.98	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.64	23.80	23.64	23.70	23.80	24.90
15	QPSK	1	37	23.68	23.71	23.68	23.70	23.66	
15	QPSK	1	74	23.55	23.65	23.57	23.69	23.63	
15	QPSK	36	0	23.69	23.89	23.67	23.85	23.85	24.9
15	QPSK	36	20	23.70	23.88	23.64	23.78	23.83	
15	QPSK	36	39	23.60	23.77	23.59	23.76	23.79	
15	QPSK	75	0	23.73	23.87	23.70	23.83	23.83	24.9
15	16QAM	1	0	23.79	24.07	24.05	23.83	24.19	
15	16QAM	1	37	23.54	23.69	23.63	23.60	23.90	
15	16QAM	1	74	23.70	23.75	23.77	23.73	24.02	24.9
15	16QAM	36	0	23.74	23.81	23.64	23.80	23.82	
15	16QAM	36	20	23.69	23.84	23.65	23.74	23.80	
15	16QAM	36	39	23.67	23.77	23.68	23.72	23.77	24.9
15	16QAM	75	0	23.65	23.79	23.72	23.76	23.78	
15	64QAM	1	0	23.82	23.80	23.84	23.77	23.90	
15	64QAM	1	37	23.76	23.78	23.75	23.81	23.65	24.9
15	64QAM	1	74	23.62	23.73	23.64	23.60	23.61	
15	64QAM	36	0	24.05	24.08	23.95	24.15	24.12	
15	64QAM	36	20	23.97	24.10	24.00	24.06	24.11	24.5
15	64QAM	36	39	23.90	24.05	24.00	24.03	24.02	
15	64QAM	75	0	23.91	24.03	23.96	24.07	24.13	
15	256QAM	1	0	20.94	20.90	20.82	20.97	20.92	22.5
15	256QAM	1	37	20.97	20.95	20.96	20.83	20.81	
15	256QAM	1	74	20.70	20.79	20.76	20.84	20.65	
15	256QAM	36	0	21.12	21.15	21.18	21.06	21.20	22.5
15	256QAM	36	20	21.11	21.22	21.14	21.15	21.19	
15	256QAM	36	39	21.10	21.06	21.12	21.06	21.17	



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15	256QAM	75	0	21.04	21.11	20.96	21.12	20.89	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.63	23.78	23.70	23.75	23.76	24.90
10	QPSK	1	25	23.67	23.72	23.60	23.68	23.65	
10	QPSK	1	49	23.57	23.71	23.66	23.67	23.67	
10	QPSK	25	0	23.76	23.85	23.62	23.80	23.91	24.9
10	QPSK	25	12	23.72	23.81	23.67	23.83	23.81	
10	QPSK	25	25	23.70	23.79	23.68	23.83	23.79	
10	QPSK	50	0	23.71	23.79	23.71	23.81	23.86	
10	16QAM	1	0	23.84	24.04	24.00	23.80	24.23	24.9
10	16QAM	1	25	23.57	23.66	23.58	23.66	23.89	
10	16QAM	1	49	23.71	23.80	23.80	23.72	24.04	
10	16QAM	25	0	23.72	23.86	23.65	23.84	23.83	24.9
10	16QAM	25	12	23.68	23.80	23.68	23.81	23.84	
10	16QAM	25	25	23.64	23.76	23.63	23.73	23.75	
10	16QAM	50	0	23.65	23.83	23.72	23.73	23.79	
10	64QAM	1	0	23.79	23.80	23.84	23.76	23.82	24.9
10	64QAM	1	25	23.76	23.79	23.76	23.77	23.71	
10	64QAM	1	49	23.64	23.73	23.65	23.64	23.59	
10	64QAM	25	0	24.01	24.10	24.00	24.15	24.11	24.5
10	64QAM	25	12	23.97	24.14	23.94	24.08	24.03	
10	64QAM	25	25	23.95	24.08	24.00	24.06	24.00	
10	64QAM	50	0	23.93	24.02	23.99	24.05	24.05	
10	256QAM	1	0	20.86	20.91	20.88	20.92	20.92	22.5
10	256QAM	1	25	20.97	20.98	20.99	20.82	20.84	
10	256QAM	1	49	20.73	20.80	20.77	20.83	20.64	
10	256QAM	25	0	21.12	21.13	21.17	21.10	21.18	22.5
10	256QAM	25	12	21.15	21.19	21.10	21.09	21.11	
10	256QAM	25	25	21.13	21.12	21.09	21.03	21.14	
10	256QAM	50	0	21.04	21.13	20.95	21.06	20.91	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.66	23.79	23.70	23.66	23.82	24.90
5	QPSK	1	12	23.66	23.70	23.60	23.74	23.62	
5	QPSK	1	24	23.54	23.75	23.66	23.70	23.58	
5	QPSK	12	0	23.69	23.91	23.69	23.84	23.85	24.9
5	QPSK	12	7	23.71	23.88	23.65	23.77	23.76	
5	QPSK	12	13	23.62	23.81	23.67	23.82	23.75	
5	QPSK	25	0	23.63	23.85	23.63	23.82	23.83	
5	16QAM	1	0	23.85	24.05	24.03	23.81	24.21	24.9
5	16QAM	1	12	23.59	23.62	23.61	23.57	23.84	
5	16QAM	1	24	23.63	23.77	23.82	23.70	24.07	
5	16QAM	12	0	23.73	23.85	23.63	23.75	23.82	24.9
5	16QAM	12	7	23.68	23.79	23.60	23.82	23.79	
5	16QAM	12	13	23.68	23.73	23.65	23.77	23.82	
5	16QAM	25	0	23.69	23.78	23.71	23.80	23.81	
5	64QAM	1	0	23.79	23.87	23.76	23.76	23.87	24.9
5	64QAM	1	12	23.80	23.81	23.80	23.73	23.63	
5	64QAM	1	24	23.63	23.73	23.74	23.69	23.63	
5	64QAM	12	0	24.04	24.14	23.92	24.07	24.14	24.5
5	64QAM	12	7	23.94	24.13	23.92	24.11	24.06	
5	64QAM	12	13	23.94	24.02	24.02	24.06	24.07	
5	64QAM	25	0	24.01	24.03	23.93	24.02	24.11	
5	256QAM	1	0	20.90	20.91	20.90	21.02	20.92	22.5
5	256QAM	1	12	20.95	20.97	20.99	20.83	20.81	
5	256QAM	1	24	20.72	20.78	20.75	20.82	20.64	
5	256QAM	12	0	21.15	21.15	21.18	21.09	21.24	22.5
5	256QAM	12	7	21.13	21.19	21.11	21.09	21.16	
5	256QAM	12	13	21.16	21.08	21.08	21.12	21.17	
5	256QAM	25	0	20.95	21.07	20.98	21.12	20.97	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.70	23.87	23.70	23.75	23.86	25.3
20	QPSK	1	49	23.68	23.78	23.69	23.74	23.72	
20	QPSK	1	99	23.62	23.75	23.67	23.70	23.67	
20	QPSK	50	0	23.77	23.92	23.71	23.88	23.91	25.3
20	QPSK	50	24	23.72	23.88	23.69	23.87	23.86	
20	QPSK	50	50	23.70	23.86	23.68	23.86	23.82	
20	QPSK	100	0	23.73	23.87	23.71	23.84	23.86	25.3
20	16QAM	1	0	23.86	24.14	24.08	23.90	24.26	
20	16QAM	1	49	23.59	23.72	23.65	23.67	23.90	
20	16QAM	1	99	23.72	23.85	23.83	23.78	24.11	25.3
20	16QAM	50	0	23.75	23.86	23.71	23.84	23.90	
20	16QAM	50	24	23.71	23.84	23.70	23.82	23.87	
20	16QAM	50	50	23.69	23.82	23.69	23.80	23.84	25.3
20	16QAM	100	0	23.74	23.83	23.74	23.81	23.83	
20	64QAM	1	0	23.86	23.88	23.86	23.83	23.91	
20	64QAM	1	49	23.80	23.87	23.85	23.83	23.71	25.3
20	64QAM	1	99	23.65	23.77	23.74	23.69	23.64	
20	64QAM	50	0	24.05	24.18	24.02	24.15	24.17	
20	64QAM	50	24	24.02	24.14	24.01	24.14	24.13	24.5
20	64QAM	50	50	23.99	24.12	24.02	24.10	24.10	
20	64QAM	100	0	24.01	24.12	24.03	24.09	24.14	
20	256QAM	1	0	20.96	21.00	20.92	21.02	21.00	22.5
20	256QAM	1	49	21.05	20.99	21.01	20.89	20.91	
20	256QAM	1	99	20.77	20.85	20.80	20.88	20.74	
20	256QAM	50	0	21.22	21.20	21.19	21.16	21.28	22.5
20	256QAM	50	24	21.21	21.28	21.15	21.18	21.21	
20	256QAM	50	50	21.20	21.15	21.13	21.12	21.17	
20	256QAM	100	0	21.05	21.15	21.02	21.16	20.98	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.64	23.80	23.64	23.70	23.80	25.30
15	QPSK	1	37	23.68	23.71	23.68	23.70	23.66	
15	QPSK	1	74	23.55	23.65	23.57	23.69	23.63	
15	QPSK	36	0	23.69	23.89	23.67	23.85	23.85	25.3
15	QPSK	36	20	23.70	23.88	23.64	23.78	23.83	
15	QPSK	36	39	23.60	23.77	23.59	23.76	23.79	
15	QPSK	75	0	23.73	23.87	23.70	23.83	23.83	25.3
15	16QAM	1	0	23.79	24.07	24.05	23.83	24.19	
15	16QAM	1	37	23.54	23.69	23.63	23.60	23.90	
15	16QAM	1	74	23.70	23.75	23.77	23.73	24.02	25.3
15	16QAM	36	0	23.74	23.81	23.64	23.80	23.82	
15	16QAM	36	20	23.69	23.84	23.65	23.74	23.80	
15	16QAM	36	39	23.67	23.77	23.68	23.72	23.77	25.3
15	16QAM	75	0	23.65	23.79	23.72	23.76	23.78	
15	64QAM	1	0	23.82	23.80	23.84	23.77	23.90	
15	64QAM	1	37	23.76	23.78	23.75	23.81	23.65	25.3
15	64QAM	1	74	23.62	23.73	23.64	23.60	23.61	
15	64QAM	36	0	24.05	24.08	23.95	24.15	24.12	
15	64QAM	36	20	23.97	24.10	24.00	24.06	24.11	24.5
15	64QAM	36	39	23.90	24.05	24.00	24.03	24.02	
15	64QAM	75	0	23.91	24.03	23.96	24.07	24.13	
15	256QAM	1	0	20.94	20.90	20.82	20.97	20.92	22.5
15	256QAM	1	37	20.97	20.95	20.96	20.83	20.81	
15	256QAM	1	74	20.70	20.79	20.76	20.84	20.65	
15	256QAM	36	0	21.12	21.15	21.18	21.06	21.20	22.5
15	256QAM	36	20	21.11	21.22	21.14	21.15	21.19	
15	256QAM	36	39	21.10	21.06	21.12	21.06	21.17	



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15	256QAM	75	0	21.04	21.11	20.96	21.12	20.89	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.63	23.78	23.70	23.75	23.76	25.30
10	QPSK	1	25	23.67	23.72	23.60	23.68	23.65	
10	QPSK	1	49	23.57	23.71	23.66	23.67	23.67	
10	QPSK	25	0	23.76	23.85	23.62	23.80	23.91	25.3
10	QPSK	25	12	23.72	23.81	23.67	23.83	23.81	
10	QPSK	25	25	23.70	23.79	23.68	23.83	23.79	
10	QPSK	50	0	23.71	23.79	23.71	23.81	23.86	
10	16QAM	1	0	23.84	24.04	24.00	23.80	24.23	25.3
10	16QAM	1	25	23.57	23.66	23.58	23.66	23.89	
10	16QAM	1	49	23.71	23.80	23.80	23.72	24.04	
10	16QAM	25	0	23.72	23.86	23.65	23.84	23.83	25.3
10	16QAM	25	12	23.68	23.80	23.68	23.81	23.84	
10	16QAM	25	25	23.64	23.76	23.63	23.73	23.75	
10	16QAM	50	0	23.65	23.83	23.72	23.73	23.79	
10	64QAM	1	0	23.79	23.80	23.84	23.76	23.82	25.3
10	64QAM	1	25	23.76	23.79	23.76	23.77	23.71	
10	64QAM	1	49	23.64	23.73	23.65	23.64	23.59	
10	64QAM	25	0	24.01	24.10	24.00	24.15	24.11	24.5
10	64QAM	25	12	23.97	24.14	23.94	24.08	24.03	
10	64QAM	25	25	23.95	24.08	24.00	24.06	24.00	
10	64QAM	50	0	23.93	24.02	23.99	24.05	24.05	
10	256QAM	1	0	20.86	20.91	20.88	20.92	20.92	22.5
10	256QAM	1	25	20.97	20.98	20.99	20.82	20.84	
10	256QAM	1	49	20.73	20.80	20.77	20.83	20.64	
10	256QAM	25	0	21.12	21.13	21.17	21.10	21.18	22.5
10	256QAM	25	12	21.15	21.19	21.10	21.09	21.11	
10	256QAM	25	25	21.13	21.12	21.09	21.03	21.14	
10	256QAM	50	0	21.04	21.13	20.95	21.06	20.91	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.66	23.79	23.70	23.66	23.82	25.30
5	QPSK	1	12	23.66	23.70	23.60	23.74	23.62	
5	QPSK	1	24	23.54	23.75	23.66	23.70	23.58	
5	QPSK	12	0	23.69	23.91	23.69	23.84	23.85	25.3
5	QPSK	12	7	23.71	23.88	23.65	23.77	23.76	
5	QPSK	12	13	23.62	23.81	23.67	23.82	23.75	
5	QPSK	25	0	23.63	23.85	23.63	23.82	23.83	
5	16QAM	1	0	23.85	24.05	24.03	23.81	24.21	25.3
5	16QAM	1	12	23.59	23.62	23.61	23.57	23.84	
5	16QAM	1	24	23.63	23.77	23.82	23.70	24.07	
5	16QAM	12	0	23.73	23.85	23.63	23.75	23.82	25.3
5	16QAM	12	7	23.68	23.79	23.60	23.82	23.79	
5	16QAM	12	13	23.68	23.73	23.65	23.77	23.82	
5	16QAM	25	0	23.69	23.78	23.71	23.80	23.81	
5	64QAM	1	0	23.79	23.87	23.76	23.76	23.87	25.3
5	64QAM	1	12	23.80	23.81	23.80	23.73	23.63	
5	64QAM	1	24	23.63	23.73	23.74	23.69	23.63	
5	64QAM	12	0	24.04	24.14	23.92	24.07	24.14	24.5
5	64QAM	12	7	23.94	24.13	23.92	24.11	24.06	
5	64QAM	12	13	23.94	24.02	24.02	24.06	24.07	
5	64QAM	25	0	24.01	24.03	23.93	24.02	24.11	
5	256QAM	1	0	20.90	20.91	20.90	21.02	20.92	22.5
5	256QAM	1	12	20.95	20.97	20.99	20.83	20.81	
5	256QAM	1	24	20.72	20.78	20.75	20.82	20.64	
5	256QAM	12	0	21.15	21.15	21.18	21.09	21.24	22.5
5	256QAM	12	7	21.13	21.19	21.11	21.09	21.16	
5	256QAM	12	13	21.16	21.08	21.08	21.12	21.17	
5	256QAM	25	0	20.95	21.07	20.98	21.12	20.97	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.70	23.87	23.70	23.75	23.86	25.3
20	QPSK	1	49	23.68	23.78	23.69	23.74	23.72	
20	QPSK	1	99	23.62	23.75	23.67	23.70	23.67	
20	QPSK	50	0	23.77	23.92	23.71	23.88	23.91	25.3
20	QPSK	50	24	23.72	23.88	23.69	23.87	23.86	
20	QPSK	50	50	23.70	23.86	23.68	23.86	23.82	
20	QPSK	100	0	23.73	23.87	23.71	23.84	23.86	25.3
20	16QAM	1	0	23.86	24.14	24.08	23.90	24.26	
20	16QAM	1	49	23.59	23.72	23.65	23.67	23.90	
20	16QAM	1	99	23.72	23.85	23.83	23.78	24.11	25.3
20	16QAM	50	0	23.75	23.86	23.71	23.84	23.90	
20	16QAM	50	24	23.71	23.84	23.70	23.82	23.87	
20	16QAM	50	50	23.69	23.82	23.69	23.80	23.84	25.3
20	16QAM	100	0	23.74	23.83	23.74	23.81	23.83	
20	64QAM	1	0	23.86	23.88	23.86	23.83	23.91	
20	64QAM	1	49	23.80	23.87	23.85	23.83	23.71	25.3
20	64QAM	1	99	23.65	23.77	23.74	23.69	23.64	
20	64QAM	50	0	24.05	24.18	24.02	24.15	24.17	
20	64QAM	50	24	24.02	24.14	24.01	24.14	24.13	24.5
20	64QAM	50	50	23.99	24.12	24.02	24.10	24.10	
20	64QAM	100	0	24.01	24.12	24.03	24.09	24.14	
20	256QAM	1	0	20.96	21.00	20.92	21.02	21.00	22.5
20	256QAM	1	49	21.05	20.99	21.01	20.89	20.91	
20	256QAM	1	99	20.77	20.85	20.80	20.88	20.74	
20	256QAM	50	0	21.22	21.20	21.19	21.16	21.28	22.5
20	256QAM	50	24	21.21	21.28	21.15	21.18	21.21	
20	256QAM	50	50	21.20	21.15	21.13	21.12	21.17	
20	256QAM	100	0	21.05	21.15	21.02	21.16	20.98	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.64	23.80	23.64	23.70	23.80	25.30
15	QPSK	1	37	23.68	23.71	23.68	23.70	23.66	
15	QPSK	1	74	23.55	23.65	23.57	23.69	23.63	
15	QPSK	36	0	23.69	23.89	23.67	23.85	23.85	25.3
15	QPSK	36	20	23.70	23.88	23.64	23.78	23.83	
15	QPSK	36	39	23.60	23.77	23.59	23.76	23.79	
15	QPSK	75	0	23.73	23.87	23.70	23.83	23.83	25.3
15	16QAM	1	0	23.79	24.07	24.05	23.83	24.19	
15	16QAM	1	37	23.54	23.69	23.63	23.60	23.90	
15	16QAM	1	74	23.70	23.75	23.77	23.73	24.02	25.3
15	16QAM	36	0	23.74	23.81	23.64	23.80	23.82	
15	16QAM	36	20	23.69	23.84	23.65	23.74	23.80	
15	16QAM	36	39	23.67	23.77	23.68	23.72	23.77	25.3
15	16QAM	75	0	23.65	23.79	23.72	23.76	23.78	
15	64QAM	1	0	23.82	23.80	23.84	23.77	23.90	
15	64QAM	1	37	23.76	23.78	23.75	23.81	23.65	25.3
15	64QAM	1	74	23.62	23.73	23.64	23.60	23.61	
15	64QAM	36	0	24.05	24.08	23.95	24.15	24.12	
15	64QAM	36	20	23.97	24.10	24.00	24.06	24.11	24.5
15	64QAM	36	39	23.90	24.05	24.00	24.03	24.02	
15	64QAM	75	0	23.91	24.03	23.96	24.07	24.13	
15	256QAM	1	0	20.94	20.90	20.82	20.97	20.92	22.5
15	256QAM	1	37	20.97	20.95	20.96	20.83	20.81	
15	256QAM	1	74	20.70	20.79	20.76	20.84	20.65	
15	256QAM	36	0	21.12	21.15	21.18	21.06	21.20	22.5
15	256QAM	36	20	21.11	21.22	21.14	21.15	21.19	
15	256QAM	36	39	21.10	21.06	21.12	21.06	21.17	



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15	256QAM	75	0	21.04	21.11	20.96	21.12	20.89	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.63	23.78	23.70	23.75	23.76	25.30
10	QPSK	1	25	23.67	23.72	23.60	23.68	23.65	
10	QPSK	1	49	23.57	23.71	23.66	23.67	23.67	
10	QPSK	25	0	23.76	23.85	23.62	23.80	23.91	25.3
10	QPSK	25	12	23.72	23.81	23.67	23.83	23.81	
10	QPSK	25	25	23.70	23.79	23.68	23.83	23.79	
10	QPSK	50	0	23.71	23.79	23.71	23.81	23.86	
10	16QAM	1	0	23.84	24.04	24.00	23.80	24.23	25.3
10	16QAM	1	25	23.57	23.66	23.58	23.66	23.89	
10	16QAM	1	49	23.71	23.80	23.80	23.72	24.04	
10	16QAM	25	0	23.72	23.86	23.65	23.84	23.83	25.3
10	16QAM	25	12	23.68	23.80	23.68	23.81	23.84	
10	16QAM	25	25	23.64	23.76	23.63	23.73	23.75	
10	16QAM	50	0	23.65	23.83	23.72	23.73	23.79	
10	64QAM	1	0	23.79	23.80	23.84	23.76	23.82	25.3
10	64QAM	1	25	23.76	23.79	23.76	23.77	23.71	
10	64QAM	1	49	23.64	23.73	23.65	23.64	23.59	
10	64QAM	25	0	24.01	24.10	24.00	24.15	24.11	24.5
10	64QAM	25	12	23.97	24.14	23.94	24.08	24.03	
10	64QAM	25	25	23.95	24.08	24.00	24.06	24.00	
10	64QAM	50	0	23.93	24.02	23.99	24.05	24.05	
10	256QAM	1	0	20.86	20.91	20.88	20.92	20.92	22.5
10	256QAM	1	25	20.97	20.98	20.99	20.82	20.84	
10	256QAM	1	49	20.73	20.80	20.77	20.83	20.64	
10	256QAM	25	0	21.12	21.13	21.17	21.10	21.18	22.5
10	256QAM	25	12	21.15	21.19	21.10	21.09	21.11	
10	256QAM	25	25	21.13	21.12	21.09	21.03	21.14	
10	256QAM	50	0	21.04	21.13	20.95	21.06	20.91	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.66	23.79	23.70	23.66	23.82	25.30
5	QPSK	1	12	23.66	23.70	23.60	23.74	23.62	
5	QPSK	1	24	23.54	23.75	23.66	23.70	23.58	
5	QPSK	12	0	23.69	23.91	23.69	23.84	23.85	25.3
5	QPSK	12	7	23.71	23.88	23.65	23.77	23.76	
5	QPSK	12	13	23.62	23.81	23.67	23.82	23.75	
5	QPSK	25	0	23.63	23.85	23.63	23.82	23.83	
5	16QAM	1	0	23.85	24.05	24.03	23.81	24.21	25.3
5	16QAM	1	12	23.59	23.62	23.61	23.57	23.84	
5	16QAM	1	24	23.63	23.77	23.82	23.70	24.07	
5	16QAM	12	0	23.73	23.85	23.63	23.75	23.82	25.3
5	16QAM	12	7	23.68	23.79	23.60	23.82	23.79	
5	16QAM	12	13	23.68	23.73	23.65	23.77	23.82	
5	16QAM	25	0	23.69	23.78	23.71	23.80	23.81	
5	64QAM	1	0	23.79	23.87	23.76	23.76	23.87	25.3
5	64QAM	1	12	23.80	23.81	23.80	23.73	23.63	
5	64QAM	1	24	23.63	23.73	23.74	23.69	23.63	
5	64QAM	12	0	24.04	24.14	23.92	24.07	24.14	24.5
5	64QAM	12	7	23.94	24.13	23.92	24.11	24.06	
5	64QAM	12	13	23.94	24.02	24.02	24.06	24.07	
5	64QAM	25	0	24.01	24.03	23.93	24.02	24.11	
5	256QAM	1	0	20.90	20.91	20.90	21.02	20.92	22.5
5	256QAM	1	12	20.95	20.97	20.99	20.83	20.81	
5	256QAM	1	24	20.72	20.78	20.75	20.82	20.64	
5	256QAM	12	0	21.15	21.15	21.18	21.09	21.24	22.5
5	256QAM	12	7	21.13	21.19	21.11	21.09	21.16	
5	256QAM	12	13	21.16	21.08	21.08	21.12	21.17	
5	256QAM	25	0	20.95	21.07	20.98	21.12	20.97	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.84	24.03	23.79	23.65	24.7
20	QPSK	1	49	23.74	23.92	23.65	23.49	
20	QPSK	1	99	23.60	23.78	23.51	23.36	
20	QPSK	50	0	21.89	22.10	21.88	21.80	23.7
20	QPSK	50	24	21.82	22.02	21.78	21.73	
20	QPSK	50	50	21.76	21.96	21.79	21.73	
20	QPSK	100	0	21.82	22.03	21.80	21.73	
20	16QAM	1	0	23.01	23.15	22.91	22.84	23.7
20	16QAM	1	49	22.90	22.96	22.72	22.62	
20	16QAM	1	99	22.79	22.88	22.65	22.56	
20	16QAM	50	0	20.88	21.04	20.83	20.75	
20	16QAM	50	24	20.81	20.97	20.79	20.71	22.7
20	16QAM	50	50	20.74	20.90	20.70	20.71	
20	16QAM	100	0	20.82	20.95	20.74	20.70	
20	64QAM	1	0	21.78	21.92	21.56	21.56	
20	64QAM	1	49	21.66	21.76	21.41	21.41	22.7
20	64QAM	1	99	21.54	21.55	21.26	21.24	
20	64QAM	50	0	19.89	20.04	19.83	19.79	
20	64QAM	50	24	19.85	20.01	19.77	19.75	21.7
20	64QAM	50	50	19.75	19.91	19.75	19.76	
20	64QAM	100	0	19.76	19.97	19.73	19.73	
20	256QAM	1	0	18.86	18.86	18.82	18.81	
20	256QAM	1	49	18.70	18.79	18.78	18.71	19.7
20	256QAM	1	99	18.76	18.80	18.76	18.72	
20	256QAM	50	0	17.83	17.86	17.79	17.83	
20	256QAM	50	24	17.77	17.84	17.74	17.76	19.7
20	256QAM	50	50	17.72	17.81	17.78	17.79	
20	256QAM	100	0	17.78	17.80	17.73	17.77	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.80	24.02	23.67	23.57	24.7
15	QPSK	1	37	23.64	23.78	23.32	23.35	
15	QPSK	1	74	23.63	23.86	23.46	23.38	
15	QPSK	36	0	21.88	22.07	21.81	21.73	23.7
15	QPSK	36	20	21.85	22.02	21.79	21.78	
15	QPSK	36	39	21.78	21.95	21.76	21.73	
15	QPSK	75	0	21.85	22.02	21.76	21.70	
15	16QAM	1	0	23.01	23.07	22.86	22.85	23.7
15	16QAM	1	37	22.93	22.97	22.72	22.82	
15	16QAM	1	74	22.80	22.88	22.59	22.64	
15	16QAM	36	0	20.81	21.02	20.76	20.70	22.7
15	16QAM	36	20	20.77	20.96	20.72	20.74	
15	16QAM	36	39	20.73	20.93	20.72	20.75	
15	16QAM	75	0	20.86	21.05	20.78	20.72	
15	64QAM	1	0	21.83	22.01	21.61	21.73	22.7
15	64QAM	1	37	21.65	21.99	21.45	21.63	
15	64QAM	1	74	21.65	21.84	21.40	21.47	
15	64QAM	36	0	19.85	20.05	19.78	19.72	21.7
15	64QAM	36	20	19.81	19.99	19.75	19.74	
15	64QAM	36	39	19.78	19.94	19.78	19.75	
15	64QAM	75	0	19.79	20.00	19.71	19.76	
15	256QAM	1	0	18.84	18.79	18.79	18.73	19.7
15	256QAM	1	37	18.65	18.73	18.73	18.65	
15	256QAM	1	74	18.73	18.79	18.69	18.72	
15	256QAM	36	0	17.82	17.76	17.75	17.73	19.7
15	256QAM	36	20	17.78	17.84	17.76	17.75	
15	256QAM	36	39	17.78	17.75	17.78	17.70	



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15	256QAM	75	0	17.70	17.77	17.72	17.77	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.88	24.00	23.80	23.72	24.7
10	QPSK	1	25	23.75	23.91	23.64	23.56	
10	QPSK	1	49	23.73	23.92	23.65	23.57	
10	QPSK	25	0	21.87	22.05	21.80	21.71	23.7
10	QPSK	25	12	21.81	22.05	21.73	21.75	
10	QPSK	25	25	21.81	22.00	21.73	21.75	
10	QPSK	50	0	21.81	22.06	21.76	21.77	
10	16QAM	1	0	22.82	23.10	22.75	22.89	23.7
10	16QAM	1	25	22.75	23.03	22.73	22.84	
10	16QAM	1	49	22.73	22.97	22.65	22.75	
10	16QAM	25	0	20.89	21.10	20.85	20.77	22.7
10	16QAM	25	12	20.85	21.08	20.79	20.71	
10	16QAM	25	25	20.85	21.05	20.78	20.79	
10	16QAM	50	0	20.82	20.98	20.73	20.75	
10	64QAM	1	0	21.77	22.00	21.39	21.44	22.7
10	64QAM	1	25	21.66	21.82	21.23	21.15	
10	64QAM	1	49	21.68	21.83	21.27	21.24	
10	64QAM	25	0	19.82	20.04	19.77	19.76	21.7
10	64QAM	25	12	19.77	20.03	19.70	19.72	
10	64QAM	25	25	19.77	19.98	19.78	19.74	
10	64QAM	50	0	19.85	20.00	19.71	19.75	
10	256QAM	1	0	18.83	18.80	18.74	18.78	19.7
10	256QAM	1	25	18.65	18.69	18.74	18.66	
10	256QAM	1	49	18.72	18.76	18.72	18.71	
10	256QAM	25	0	17.79	17.80	17.79	17.80	19.7
10	256QAM	25	12	17.71	17.76	17.73	17.74	
10	256QAM	25	25	17.77	17.79	17.73	17.78	
10	256QAM	50	0	17.71	17.77	17.77	17.78	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.71	23.90	23.66	23.66	24.7
5	QPSK	1	12	23.63	23.76	23.70	23.75	
5	QPSK	1	24	23.70	23.85	23.63	23.61	
5	QPSK	12	0	21.82	21.99	21.73	21.73	23.7
5	QPSK	12	7	21.84	22.01	21.77	21.76	
5	QPSK	12	13	21.79	21.95	21.70	21.78	
5	QPSK	25	0	21.83	21.96	21.74	21.71	
5	16QAM	1	0	22.87	23.11	22.76	22.86	23.7
5	16QAM	1	12	22.75	23.06	22.67	22.82	
5	16QAM	1	24	22.84	22.98	22.73	22.83	
5	16QAM	12	0	20.79	20.96	20.72	20.71	22.7
5	16QAM	12	7	20.85	20.97	20.72	20.73	
5	16QAM	12	13	20.76	20.94	20.71	20.70	
5	16QAM	25	0	20.90	21.02	20.84	20.82	
5	64QAM	1	0	21.69	22.01	21.63	21.71	22.7
5	64QAM	1	12	21.70	22.05	21.59	21.69	
5	64QAM	1	24	21.74	21.97	21.57	21.54	
5	64QAM	12	0	19.77	19.97	20.72	19.72	21.7
5	64QAM	12	7	19.80	19.93	20.73	20.72	
5	64QAM	12	13	19.73	19.93	20.71	20.70	
5	64QAM	25	0	19.80	19.96	19.73	20.71	
5	256QAM	1	0	18.77	18.80	18.73	18.78	19.7
5	256QAM	1	12	18.64	18.79	18.71	18.70	
5	256QAM	1	24	18.71	18.75	18.68	18.68	
5	256QAM	12	0	17.78	17.81	17.71	17.79	19.7
5	256QAM	12	7	17.77	17.77	17.72	17.76	
5	256QAM	12	13	17.71	17.80	17.74	17.72	
5	256QAM	25	0	17.77	17.77	17.73	17.76	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.84	24.03	23.79	23.65	24.7
20	QPSK	1	49	23.74	23.92	23.65	23.49	
20	QPSK	1	99	23.60	23.78	23.51	23.36	
20	QPSK	50	0	21.89	22.10	21.88	21.80	23.7
20	QPSK	50	24	21.82	22.02	21.78	21.73	
20	QPSK	50	50	21.76	21.96	21.79	21.73	
20	QPSK	100	0	21.82	22.03	21.80	21.73	
20	16QAM	1	0	23.01	23.15	22.91	22.84	23.7
20	16QAM	1	49	22.90	22.96	22.72	22.62	
20	16QAM	1	99	22.79	22.88	22.65	22.56	
20	16QAM	50	0	20.88	21.04	20.83	20.75	
20	16QAM	50	24	20.81	20.97	20.79	20.71	22.7
20	16QAM	50	50	20.74	20.90	20.70	20.71	
20	16QAM	100	0	20.82	20.95	20.74	20.70	
20	64QAM	1	0	21.78	21.92	21.56	21.56	
20	64QAM	1	49	21.66	21.76	21.41	21.41	22.7
20	64QAM	1	99	21.54	21.55	21.26	21.24	
20	64QAM	50	0	19.89	20.04	19.83	19.79	
20	64QAM	50	24	19.85	20.01	19.77	19.75	21.7
20	64QAM	50	50	19.75	19.91	19.75	19.76	
20	64QAM	100	0	19.76	19.97	19.73	19.73	
20	256QAM	1	0	18.86	18.86	18.82	18.81	
20	256QAM	1	49	18.70	18.79	18.78	18.71	19.7
20	256QAM	1	99	18.76	18.80	18.76	18.72	
20	256QAM	50	0	17.83	17.86	17.79	17.83	
20	256QAM	50	24	17.77	17.84	17.74	17.76	19.7
20	256QAM	50	50	17.72	17.81	17.78	17.79	
20	256QAM	100	0	17.78	17.80	17.73	17.77	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.80	24.02	23.67	23.57	24.7
15	QPSK	1	37	23.64	23.78	23.32	23.35	
15	QPSK	1	74	23.63	23.86	23.46	23.38	
15	QPSK	36	0	21.88	22.07	21.81	21.73	23.7
15	QPSK	36	20	21.85	22.02	21.79	21.78	
15	QPSK	36	39	21.78	21.95	21.76	21.73	
15	QPSK	75	0	21.85	22.02	21.76	21.70	
15	16QAM	1	0	23.01	23.07	22.86	22.85	23.7
15	16QAM	1	37	22.93	22.97	22.72	22.82	
15	16QAM	1	74	22.80	22.88	22.59	22.64	
15	16QAM	36	0	20.81	21.02	20.76	20.70	22.7
15	16QAM	36	20	20.77	20.96	20.72	20.74	
15	16QAM	36	39	20.73	20.93	20.72	20.75	
15	16QAM	75	0	20.86	21.05	20.78	20.72	
15	64QAM	1	0	21.83	22.01	21.61	21.73	22.7
15	64QAM	1	37	21.65	21.99	21.45	21.63	
15	64QAM	1	74	21.65	21.84	21.40	21.47	
15	64QAM	36	0	19.85	20.05	19.78	19.72	21.7
15	64QAM	36	20	19.81	19.99	19.75	19.74	
15	64QAM	36	39	19.78	19.94	19.78	19.75	
15	64QAM	75	0	19.79	20.00	19.71	19.76	
15	256QAM	1	0	18.84	18.79	18.79	18.73	19.7
15	256QAM	1	37	18.65	18.73	18.73	18.65	
15	256QAM	1	74	18.73	18.79	18.69	18.72	
15	256QAM	36	0	17.82	17.76	17.75	17.73	19.7
15	256QAM	36	20	17.78	17.84	17.76	17.75	
15	256QAM	36	39	17.78	17.75	17.78	17.70	



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15	256QAM	75	0	17.70	17.77	17.72	17.77	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.88	24.00	23.80	23.72	24.7
10	QPSK	1	25	23.75	23.91	23.64	23.56	
10	QPSK	1	49	23.73	23.92	23.65	23.57	
10	QPSK	25	0	21.87	22.05	21.80	21.71	23.7
10	QPSK	25	12	21.81	22.05	21.73	21.75	
10	QPSK	25	25	21.81	22.00	21.73	21.75	
10	QPSK	50	0	21.81	22.06	21.76	21.77	
10	16QAM	1	0	22.82	23.10	22.75	22.89	23.7
10	16QAM	1	25	22.75	23.03	22.73	22.84	
10	16QAM	1	49	22.73	22.97	22.65	22.75	
10	16QAM	25	0	20.89	21.10	20.85	20.77	22.7
10	16QAM	25	12	20.85	21.08	20.79	20.71	
10	16QAM	25	25	20.85	21.05	20.78	20.79	
10	16QAM	50	0	20.82	20.98	20.73	20.75	
10	64QAM	1	0	21.77	22.00	21.39	21.44	22.7
10	64QAM	1	25	21.66	21.82	21.23	21.15	
10	64QAM	1	49	21.68	21.83	21.27	21.24	
10	64QAM	25	0	19.82	20.04	19.77	19.76	21.7
10	64QAM	25	12	19.77	20.03	19.70	19.72	
10	64QAM	25	25	19.77	19.98	19.78	19.74	
10	64QAM	50	0	19.85	20.00	19.71	19.75	
10	256QAM	1	0	18.83	18.80	18.74	18.78	19.7
10	256QAM	1	25	18.65	18.69	18.74	18.66	
10	256QAM	1	49	18.72	18.76	18.72	18.71	
10	256QAM	25	0	17.79	17.80	17.79	17.80	19.7
10	256QAM	25	12	17.71	17.76	17.73	17.74	
10	256QAM	25	25	17.77	17.79	17.73	17.78	
10	256QAM	50	0	17.71	17.77	17.77	17.78	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.71	23.90	23.66	23.66	24.7
5	QPSK	1	12	23.63	23.76	23.70	23.75	
5	QPSK	1	24	23.70	23.85	23.63	23.61	
5	QPSK	12	0	21.82	21.99	21.73	21.73	23.7
5	QPSK	12	7	21.84	22.01	21.77	21.76	
5	QPSK	12	13	21.79	21.95	21.70	21.78	
5	QPSK	25	0	21.83	21.96	21.74	21.71	
5	16QAM	1	0	22.87	23.11	22.76	22.86	23.7
5	16QAM	1	12	22.75	23.06	22.67	22.82	
5	16QAM	1	24	22.84	22.98	22.73	22.83	
5	16QAM	12	0	20.79	20.96	20.72	20.71	22.7
5	16QAM	12	7	20.85	20.97	20.72	20.73	
5	16QAM	12	13	20.76	20.94	20.71	20.70	
5	16QAM	25	0	20.90	21.02	20.84	20.82	
5	64QAM	1	0	21.69	22.01	21.63	21.71	22.7
5	64QAM	1	12	21.70	22.05	21.59	21.69	
5	64QAM	1	24	21.74	21.97	21.57	21.54	
5	64QAM	12	0	19.77	19.97	20.72	19.72	21.7
5	64QAM	12	7	19.80	19.93	20.73	20.72	
5	64QAM	12	13	19.73	19.93	20.71	20.70	
5	64QAM	25	0	19.80	19.96	19.73	20.71	
5	256QAM	1	0	18.77	18.80	18.73	18.78	19.7
5	256QAM	1	12	18.64	18.79	18.71	18.70	
5	256QAM	1	24	18.71	18.75	18.68	18.68	
5	256QAM	12	0	17.78	17.81	17.71	17.79	19.7
5	256QAM	12	7	17.77	17.77	17.72	17.76	
5	256QAM	12	13	17.71	17.80	17.74	17.72	
5	256QAM	25	0	17.77	17.77	17.73	17.76	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	21.41	21.55	21.33	21.13	23
20	QPSK	1	49	21.18	21.35	21.15	21.12	
20	QPSK	1	99	21.13	21.27	21.03	21.10	
20	QPSK	50	0	21.38	21.49	21.26	21.11	23
20	QPSK	50	24	21.29	21.43	21.18	21.10	
20	QPSK	50	50	21.23	21.34	21.12	21.10	
20	QPSK	100	0	21.28	21.42	21.20	21.01	
20	16QAM	1	0	21.48	21.63	21.35	21.19	23
20	16QAM	1	49	21.25	21.47	21.13	21.19	
20	16QAM	1	99	21.16	21.36	21.09	21.09	
20	16QAM	50	0	20.84	20.97	20.85	20.90	
20	16QAM	50	24	20.73	20.87	20.77	20.83	22.7
20	16QAM	50	50	20.97	20.81	20.70	20.72	
20	16QAM	100	0	20.75	20.89	20.75	20.80	
20	64QAM	1	0	21.28	21.71	21.26	20.98	22.7
20	64QAM	1	49	21.15	21.34	21.09	20.85	
20	64QAM	1	99	21.03	21.23	20.96	20.87	
20	64QAM	50	0	19.84	19.79	19.77	19.89	21.7
20	64QAM	50	24	19.80	19.71	19.71	19.81	
20	64QAM	50	50	19.70	19.83	19.92	19.72	
20	64QAM	100	0	19.73	19.86	19.95	19.79	
20	256QAM	1	0	18.85	18.77	18.77	18.74	19.7
20	256QAM	1	49	18.70	18.77	18.70	18.68	
20	256QAM	1	99	18.66	18.73	18.76	18.66	
20	256QAM	50	0	18.01	18.04	17.92	17.97	19.7
20	256QAM	50	24	17.89	17.98	17.92	17.87	
20	256QAM	50	50	17.84	17.98	17.92	17.91	
20	256QAM	100	0	17.93	17.91	17.84	17.93	
Channel				55315	55820	56160	56665	Tune-up limit
Frequency (MHz)				3557.5	3608	3642	3692.5	(dBm)
15	QPSK	1	0	21.44	21.61	21.35	21.16	23
15	QPSK	1	37	21.26	21.37	21.24	21.14	
15	QPSK	1	74	21.20	21.34	21.05	21.12	
15	QPSK	36	0	21.38	21.45	21.30	21.19	23
15	QPSK	36	20	21.35	21.48	21.18	21.16	
15	QPSK	36	39	21.32	21.39	21.18	21.13	
15	QPSK	75	0	21.28	21.44	21.22	21.04	23
15	16QAM	1	0	21.54	21.70	21.41	21.26	
15	16QAM	1	37	21.30	21.47	21.23	21.24	
15	16QAM	1	74	21.18	21.36	21.11	21.18	22.7
15	16QAM	36	0	20.94	21.07	20.89	20.92	
15	16QAM	36	20	20.74	20.90	20.85	20.86	
15	16QAM	36	39	21.00	20.86	20.76	20.76	22.7
15	16QAM	75	0	20.78	20.97	20.83	20.89	
15	64QAM	1	0	21.29	21.70	21.32	21.01	
15	64QAM	1	37	21.20	21.36	21.17	20.90	22.7
15	64QAM	1	74	21.07	21.25	21.04	20.94	
15	64QAM	36	0	19.85	19.86	19.87	19.89	
15	64QAM	36	20	19.81	19.79	19.81	19.85	21.7
15	64QAM	36	39	19.72	19.84	19.97	19.75	
15	64QAM	75	0	19.77	19.86	20.02	19.79	
15	256QAM	1	0	18.93	18.87	18.85	18.79	19.7
15	256QAM	1	37	18.75	18.83	18.77	18.74	
15	256QAM	1	74	18.68	18.80	18.77	18.71	
15	256QAM	36	0	18.09	18.09	17.95	17.97	19.7
15	256QAM	36	20	17.91	18.02	18.01	17.96	
15	256QAM	36	39	17.87	18.02	17.95	18.01	



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15	256QAM	75	0	17.96	18.01	17.91	17.94	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	21.45	21.57	21.33	21.16	23
10	QPSK	1	25	21.25	21.45	21.22	21.20	
10	QPSK	1	49	21.21	21.29	21.11	21.13	
10	QPSK	25	0	21.45	21.42	21.27	21.19	23
10	QPSK	25	12	21.31	21.46	21.23	21.16	
10	QPSK	25	25	21.28	21.41	21.13	21.11	
10	QPSK	50	0	21.38	21.42	21.27	21.07	
10	16QAM	1	0	21.54	21.70	21.45	21.20	23
10	16QAM	1	25	21.35	21.56	21.17	21.23	
10	16QAM	1	49	21.16	21.42	21.19	21.14	
10	16QAM	25	0	20.86	21.07	20.91	20.99	22.7
10	16QAM	25	12	20.80	20.93	20.81	20.88	
10	16QAM	25	25	21.05	20.85	20.71	20.77	
10	16QAM	50	0	20.79	20.99	20.78	20.80	
10	64QAM	1	0	21.36	21.70	21.34	21.06	22.7
10	64QAM	1	25	21.15	21.34	21.09	20.90	
10	64QAM	1	49	21.12	21.27	21.02	20.87	
10	64QAM	25	0	19.86	19.88	19.86	19.99	21.7
10	64QAM	25	12	19.83	19.78	19.71	19.85	
10	64QAM	25	25	19.77	19.88	19.99	19.79	
10	64QAM	50	0	19.81	19.92	19.96	19.82	
10	256QAM	1	0	18.88	18.81	18.81	18.74	19.7
10	256QAM	1	25	18.76	18.86	18.70	18.73	
10	256QAM	1	49	18.71	18.73	18.76	18.73	
10	256QAM	25	0	18.02	18.14	17.94	18.02	19.7
10	256QAM	25	12	17.95	18.00	17.97	17.92	
10	256QAM	25	25	17.94	18.08	17.93	17.93	
10	256QAM	50	0	17.94	17.94	17.92	18.00	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	21.45	21.56	21.35	21.20	23
5	QPSK	1	12	21.21	21.40	21.22	21.12	
5	QPSK	1	24	21.14	21.31	21.08	21.13	
5	QPSK	12	0	21.42	21.47	21.36	21.11	23
5	QPSK	12	7	21.29	21.43	21.23	21.15	
5	QPSK	12	13	21.33	21.34	21.19	21.16	
5	QPSK	25	0	21.36	21.46	21.24	21.08	
5	16QAM	1	0	21.50	21.68	21.37	21.20	23
5	16QAM	1	12	21.33	21.55	21.15	21.21	
5	16QAM	1	24	21.21	21.45	21.13	21.15	
5	16QAM	12	0	20.89	21.07	20.85	20.98	22.7
5	16QAM	12	7	20.78	20.91	20.86	20.92	
5	16QAM	12	13	21.06	20.87	20.72	20.81	
5	16QAM	25	0	20.75	20.89	20.79	20.90	
5	64QAM	1	0	21.35	21.70	21.27	21.07	22.7
5	64QAM	1	12	21.25	21.43	21.13	20.87	
5	64QAM	1	24	21.10	21.23	20.97	20.87	
5	64QAM	12	0	19.86	19.85	19.84	19.90	
5	64QAM	12	7	19.81	19.76	19.80	19.91	21.7
5	64QAM	12	13	19.76	19.84	19.96	19.74	
5	64QAM	25	0	19.76	19.88	19.99	19.87	
5	256QAM	1	0	18.93	18.77	18.83	18.75	
5	256QAM	1	12	18.72	18.87	18.71	18.72	19.7
5	256QAM	1	24	18.75	18.77	18.76	18.69	
5	256QAM	12	0	18.06	18.12	17.99	17.98	
5	256QAM	12	7	17.92	18.02	18.02	17.92	19.7
5	256QAM	12	13	17.86	18.01	18.00	17.95	
5	256QAM	25	0	18.03	17.97	17.85	18.00	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	21.41	21.55	21.33	21.13	23
20	QPSK	1	49	21.18	21.35	21.15	21.12	
20	QPSK	1	99	21.13	21.27	21.03	21.10	
20	QPSK	50	0	21.38	21.49	21.26	21.11	23
20	QPSK	50	24	21.29	21.43	21.18	21.10	
20	QPSK	50	50	21.23	21.34	21.12	21.10	
20	QPSK	100	0	21.28	21.42	21.20	21.01	
20	16QAM	1	0	21.48	21.63	21.35	21.19	23
20	16QAM	1	49	21.25	21.47	21.13	21.19	
20	16QAM	1	99	21.16	21.36	21.09	21.09	
20	16QAM	50	0	20.84	20.97	20.85	20.90	
20	16QAM	50	24	20.73	20.87	20.77	20.83	22.7
20	16QAM	50	50	20.97	20.81	20.70	20.72	
20	16QAM	100	0	20.75	20.89	20.75	20.80	
20	64QAM	1	0	21.28	21.71	21.26	20.98	22.7
20	64QAM	1	49	21.15	21.34	21.09	20.85	
20	64QAM	1	99	21.03	21.23	20.96	20.87	
20	64QAM	50	0	19.84	19.79	19.77	19.89	21.7
20	64QAM	50	24	19.80	19.71	19.71	19.81	
20	64QAM	50	50	19.70	19.83	19.92	19.72	
20	64QAM	100	0	19.73	19.86	19.95	19.79	
20	256QAM	1	0	18.85	18.77	18.77	18.74	19.7
20	256QAM	1	49	18.70	18.77	18.70	18.68	
20	256QAM	1	99	18.66	18.73	18.76	18.66	
20	256QAM	50	0	18.01	18.04	17.92	17.97	19.7
20	256QAM	50	24	17.89	17.98	17.92	17.87	
20	256QAM	50	50	17.84	17.98	17.92	17.91	
20	256QAM	100	0	17.93	17.91	17.84	17.93	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	21.44	21.61	21.35	21.16	23
15	QPSK	1	37	21.26	21.37	21.24	21.14	
15	QPSK	1	74	21.20	21.34	21.05	21.12	
15	QPSK	36	0	21.38	21.45	21.30	21.19	23
15	QPSK	36	20	21.35	21.48	21.18	21.16	
15	QPSK	36	39	21.32	21.39	21.18	21.13	
15	QPSK	75	0	21.28	21.44	21.22	21.04	
15	16QAM	1	0	21.54	21.70	21.41	21.26	23
15	16QAM	1	37	21.30	21.47	21.23	21.24	
15	16QAM	1	74	21.18	21.36	21.11	21.18	
15	16QAM	36	0	20.94	21.07	20.89	20.92	22.7
15	16QAM	36	20	20.74	20.90	20.85	20.86	
15	16QAM	36	39	21.00	20.86	20.76	20.76	
15	16QAM	75	0	20.78	20.97	20.83	20.89	
15	64QAM	1	0	21.29	21.70	21.32	21.01	22.7
15	64QAM	1	37	21.20	21.36	21.17	20.90	
15	64QAM	1	74	21.07	21.25	21.04	20.94	
15	64QAM	36	0	19.85	19.86	19.87	19.89	21.7
15	64QAM	36	20	19.81	19.79	19.81	19.85	
15	64QAM	36	39	19.72	19.84	19.97	19.75	
15	64QAM	75	0	19.77	19.86	20.02	19.79	
15	256QAM	1	0	18.93	18.87	18.85	18.79	19.7
15	256QAM	1	37	18.75	18.83	18.77	18.74	
15	256QAM	1	74	18.68	18.80	18.77	18.71	
15	256QAM	36	0	18.09	18.09	17.95	17.97	19.7
15	256QAM	36	20	17.91	18.02	18.01	17.96	
15	256QAM	36	39	17.87	18.02	17.95	18.01	



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Report No. :FA451606B

15	256QAM	75	0	17.96	18.01	17.91	17.94	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	21.45	21.57	21.33	21.16	23
10	QPSK	1	25	21.25	21.45	21.22	21.20	
10	QPSK	1	49	21.21	21.29	21.11	21.13	
10	QPSK	25	0	21.45	21.42	21.27	21.19	23
10	QPSK	25	12	21.31	21.46	21.23	21.16	
10	QPSK	25	25	21.28	21.41	21.13	21.11	
10	QPSK	50	0	21.38	21.42	21.27	21.07	
10	16QAM	1	0	21.54	21.70	21.45	21.20	23
10	16QAM	1	25	21.35	21.56	21.17	21.23	
10	16QAM	1	49	21.16	21.42	21.19	21.14	
10	16QAM	25	0	20.86	21.07	20.91	20.99	22.7
10	16QAM	25	12	20.80	20.93	20.81	20.88	
10	16QAM	25	25	21.05	20.85	20.71	20.77	
10	16QAM	50	0	20.79	20.99	20.78	20.80	
10	64QAM	1	0	21.36	21.70	21.34	21.06	22.7
10	64QAM	1	25	21.15	21.34	21.09	20.90	
10	64QAM	1	49	21.12	21.27	21.02	20.87	
10	64QAM	25	0	19.86	19.88	19.86	19.99	21.7
10	64QAM	25	12	19.83	19.78	19.71	19.85	
10	64QAM	25	25	19.77	19.88	19.99	19.79	
10	64QAM	50	0	19.81	19.92	19.96	19.82	
10	256QAM	1	0	18.88	18.81	18.81	18.74	19.7
10	256QAM	1	25	18.76	18.86	18.70	18.73	
10	256QAM	1	49	18.71	18.73	18.76	18.73	
10	256QAM	25	0	18.02	18.14	17.94	18.02	19.7
10	256QAM	25	12	17.95	18.00	17.97	17.92	
10	256QAM	25	25	17.94	18.08	17.93	17.93	
10	256QAM	50	0	17.94	17.94	17.92	18.00	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	21.45	21.56	21.35	21.20	23
5	QPSK	1	12	21.21	21.40	21.22	21.12	
5	QPSK	1	24	21.14	21.31	21.08	21.13	
5	QPSK	12	0	21.42	21.47	21.36	21.11	23
5	QPSK	12	7	21.29	21.43	21.23	21.15	
5	QPSK	12	13	21.33	21.34	21.19	21.16	
5	QPSK	25	0	21.36	21.46	21.24	21.08	
5	16QAM	1	0	21.50	21.68	21.37	21.20	23
5	16QAM	1	12	21.33	21.55	21.15	21.21	
5	16QAM	1	24	21.21	21.45	21.13	21.15	
5	16QAM	12	0	20.89	21.07	20.85	20.98	22.7
5	16QAM	12	7	20.78	20.91	20.86	20.92	
5	16QAM	12	13	21.06	20.87	20.72	20.81	
5	16QAM	25	0	20.75	20.89	20.79	20.90	
5	64QAM	1	0	21.35	21.70	21.27	21.07	22.7
5	64QAM	1	12	21.25	21.43	21.13	20.87	
5	64QAM	1	24	21.10	21.23	20.97	20.87	
5	64QAM	12	0	19.86	19.85	19.84	19.90	
5	64QAM	12	7	19.81	19.76	19.80	19.91	21.7
5	64QAM	12	13	19.76	19.84	19.96	19.74	
5	64QAM	25	0	19.76	19.88	19.99	19.87	
5	256QAM	1	0	18.93	18.77	18.83	18.75	
5	256QAM	1	12	18.72	18.87	18.71	18.72	19.7
5	256QAM	1	24	18.75	18.77	18.76	18.69	
5	256QAM	12	0	18.06	18.12	17.99	17.98	
5	256QAM	12	7	17.92	18.02	18.02	17.92	19.7
5	256QAM	12	13	17.86	18.01	18.00	17.95	
5	256QAM	25	0	18.03	17.97	17.85	18.00	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	21.41	21.55	21.33	21.13	23
20	QPSK	1	49	21.18	21.35	21.15	21.12	
20	QPSK	1	99	21.13	21.27	21.03	21.10	
20	QPSK	50	0	21.38	21.49	21.26	21.11	23
20	QPSK	50	24	21.29	21.43	21.18	21.10	
20	QPSK	50	50	21.23	21.34	21.12	21.10	
20	QPSK	100	0	21.28	21.42	21.20	21.01	
20	16QAM	1	0	21.48	21.63	21.35	21.19	23
20	16QAM	1	49	21.25	21.47	21.13	21.19	
20	16QAM	1	99	21.16	21.36	21.09	21.09	
20	16QAM	50	0	20.84	20.97	20.85	20.90	
20	16QAM	50	24	20.73	20.87	20.77	20.83	22.7
20	16QAM	50	50	20.97	20.81	20.70	20.72	
20	16QAM	100	0	20.75	20.89	20.75	20.80	
20	64QAM	1	0	21.28	21.71	21.26	20.98	22.7
20	64QAM	1	49	21.15	21.34	21.09	20.85	
20	64QAM	1	99	21.03	21.23	20.96	20.87	
20	64QAM	50	0	19.84	19.79	19.77	19.89	21.7
20	64QAM	50	24	19.80	19.71	19.71	19.81	
20	64QAM	50	50	19.70	19.83	19.92	19.72	
20	64QAM	100	0	19.73	19.86	19.95	19.79	
20	256QAM	1	0	18.85	18.77	18.77	18.74	19.7
20	256QAM	1	49	18.70	18.77	18.70	18.68	
20	256QAM	1	99	18.66	18.73	18.76	18.66	
20	256QAM	50	0	18.01	18.04	17.92	17.97	19.7
20	256QAM	50	24	17.89	17.98	17.92	17.87	
20	256QAM	50	50	17.84	17.98	17.92	17.91	
20	256QAM	100	0	17.93	17.91	17.84	17.93	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	21.44	21.61	21.35	21.16	23
15	QPSK	1	37	21.26	21.37	21.24	21.14	
15	QPSK	1	74	21.20	21.34	21.05	21.12	
15	QPSK	36	0	21.38	21.45	21.30	21.19	23
15	QPSK	36	20	21.35	21.48	21.18	21.16	
15	QPSK	36	39	21.32	21.39	21.18	21.13	
15	QPSK	75	0	21.28	21.44	21.22	21.04	
15	16QAM	1	0	21.54	21.70	21.41	21.26	23
15	16QAM	1	37	21.30	21.47	21.23	21.24	
15	16QAM	1	74	21.18	21.36	21.11	21.18	
15	16QAM	36	0	20.94	21.07	20.89	20.92	22.7
15	16QAM	36	20	20.74	20.90	20.85	20.86	
15	16QAM	36	39	21.00	20.86	20.76	20.76	
15	16QAM	75	0	20.78	20.97	20.83	20.89	
15	64QAM	1	0	21.29	21.70	21.32	21.01	22.7
15	64QAM	1	37	21.20	21.36	21.17	20.90	
15	64QAM	1	74	21.07	21.25	21.04	20.94	
15	64QAM	36	0	19.85	19.86	19.87	19.89	21.7
15	64QAM	36	20	19.81	19.79	19.81	19.85	
15	64QAM	36	39	19.72	19.84	19.97	19.75	
15	64QAM	75	0	19.77	19.86	20.02	19.79	
15	256QAM	1	0	18.93	18.87	18.85	18.79	19.7
15	256QAM	1	37	18.75	18.83	18.77	18.74	
15	256QAM	1	74	18.68	18.80	18.77	18.71	
15	256QAM	36	0	18.09	18.09	17.95	17.97	19.7
15	256QAM	36	20	17.91	18.02	18.01	17.96	
15	256QAM	36	39	17.87	18.02	17.95	18.01	



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15	256QAM	75	0	17.96	18.01	17.91	17.94	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	21.45	21.57	21.33	21.16	23
10	QPSK	1	25	21.25	21.45	21.22	21.20	
10	QPSK	1	49	21.21	21.29	21.11	21.13	
10	QPSK	25	0	21.45	21.42	21.27	21.19	23
10	QPSK	25	12	21.31	21.46	21.23	21.16	
10	QPSK	25	25	21.28	21.41	21.13	21.11	
10	QPSK	50	0	21.38	21.42	21.27	21.07	
10	16QAM	1	0	21.54	21.70	21.45	21.20	23
10	16QAM	1	25	21.35	21.56	21.17	21.23	
10	16QAM	1	49	21.16	21.42	21.19	21.14	
10	16QAM	25	0	20.86	21.07	20.91	20.99	22.7
10	16QAM	25	12	20.80	20.93	20.81	20.88	
10	16QAM	25	25	21.05	20.85	20.71	20.77	
10	16QAM	50	0	20.79	20.99	20.78	20.80	
10	64QAM	1	0	21.36	21.70	21.34	21.06	22.7
10	64QAM	1	25	21.15	21.34	21.09	20.90	
10	64QAM	1	49	21.12	21.27	21.02	20.87	
10	64QAM	25	0	19.86	19.88	19.86	19.99	21.7
10	64QAM	25	12	19.83	19.78	19.71	19.85	
10	64QAM	25	25	19.77	19.88	19.99	19.79	
10	64QAM	50	0	19.81	19.92	19.96	19.82	
10	256QAM	1	0	18.88	18.81	18.81	18.74	19.7
10	256QAM	1	25	18.76	18.86	18.70	18.73	
10	256QAM	1	49	18.71	18.73	18.76	18.73	
10	256QAM	25	0	18.02	18.14	17.94	18.02	19.7
10	256QAM	25	12	17.95	18.00	17.97	17.92	
10	256QAM	25	25	17.94	18.08	17.93	17.93	
10	256QAM	50	0	17.94	17.94	17.92	18.00	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	21.45	21.56	21.35	21.20	23
5	QPSK	1	12	21.21	21.40	21.22	21.12	
5	QPSK	1	24	21.14	21.31	21.08	21.13	
5	QPSK	12	0	21.42	21.47	21.36	21.11	23
5	QPSK	12	7	21.29	21.43	21.23	21.15	
5	QPSK	12	13	21.33	21.34	21.19	21.16	
5	QPSK	25	0	21.36	21.46	21.24	21.08	
5	16QAM	1	0	21.50	21.68	21.37	21.20	23
5	16QAM	1	12	21.33	21.55	21.15	21.21	
5	16QAM	1	24	21.21	21.45	21.13	21.15	
5	16QAM	12	0	20.89	21.07	20.85	20.98	22.7
5	16QAM	12	7	20.78	20.91	20.86	20.92	
5	16QAM	12	13	21.06	20.87	20.72	20.81	
5	16QAM	25	0	20.75	20.89	20.79	20.90	
5	64QAM	1	0	21.35	21.70	21.27	21.07	22.7
5	64QAM	1	12	21.25	21.43	21.13	20.87	
5	64QAM	1	24	21.10	21.23	20.97	20.87	
5	64QAM	12	0	19.86	19.85	19.84	19.90	
5	64QAM	12	7	19.81	19.76	19.80	19.91	21.7
5	64QAM	12	13	19.76	19.84	19.96	19.74	
5	64QAM	25	0	19.76	19.88	19.99	19.87	
5	256QAM	1	0	18.93	18.77	18.83	18.75	
5	256QAM	1	12	18.72	18.87	18.71	18.72	19.7
5	256QAM	1	24	18.75	18.77	18.76	18.69	
5	256QAM	12	0	18.06	18.12	17.99	17.98	
5	256QAM	12	7	17.92	18.02	18.02	17.92	19.7
5	256QAM	12	13	17.86	18.01	18.00	17.95	
5	256QAM	25	0	18.03	17.97	17.85	18.00	

**TX1 Output Power**

<LTE Band 38_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.37	24.39	24.37	25.2
20	QPSK	1	49	24.36	24.34	24.36	
20	QPSK	1	99	24.35	24.33	24.34	
20	QPSK	50	0	23.41	23.42	23.41	24.2
20	QPSK	50	24	23.40	23.40	23.38	
20	QPSK	50	50	23.40	23.37	23.40	
20	QPSK	100	0	23.40	23.41	23.40	24.2
20	16QAM	1	0	23.48	23.37	23.41	
20	16QAM	1	49	23.43	23.34	23.40	
20	16QAM	1	99	23.46	23.41	23.47	23.2
20	16QAM	50	0	22.38	22.35	22.38	
20	16QAM	50	24	22.43	22.36	22.36	
20	16QAM	50	50	22.41	22.33	22.39	23.2
20	16QAM	100	0	22.41	22.36	22.42	
20	64QAM	1	0	22.25	22.18	22.23	
20	64QAM	1	49	22.21	22.21	22.20	23.2
20	64QAM	1	99	22.27	22.23	22.26	
20	64QAM	50	0	21.43	21.37	21.40	22.2
20	64QAM	50	24	21.44	21.39	21.40	
20	64QAM	50	50	21.45	21.38	21.40	
20	64QAM	100	0	21.42	21.36	21.40	20.2
20	256QAM	1	0	19.14	19.15	19.13	
20	256QAM	1	49	18.96	18.97	18.88	
20	256QAM	1	99	18.92	18.94	18.84	20.2
20	256QAM	50	0	19.05	19.15	19.10	
20	256QAM	50	24	19.01	19.08	19.02	
20	256QAM	50	50	18.96	19.01	18.93	20.2
20	256QAM	100	0	18.96	19.03	19.00	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.33	24.32	24.28	25.2
15	QPSK	1	37	24.33	24.04	24.17	
15	QPSK	1	74	24.34	24.32	24.34	
15	QPSK	36	0	23.44	23.38	23.41	24.2
15	QPSK	36	20	23.42	23.38	23.39	
15	QPSK	36	39	23.42	23.36	23.40	
15	QPSK	75	0	23.41	23.35	23.39	24.2
15	16QAM	1	0	23.57	23.39	23.44	
15	16QAM	1	37	23.56	23.37	23.38	
15	16QAM	1	74	23.65	23.37	23.42	23.2
15	16QAM	36	0	22.41	22.31	22.35	
15	16QAM	36	20	22.43	22.32	22.35	
15	16QAM	36	39	22.41	22.34	22.36	23.2
15	16QAM	75	0	22.44	22.38	22.43	
15	64QAM	1	0	22.31	22.27	22.35	
15	64QAM	1	37	22.32	22.16	22.40	22.2
15	64QAM	1	74	22.32	22.23	22.35	
15	64QAM	36	0	21.43	21.35	21.40	
15	64QAM	36	20	21.40	21.37	21.39	20.2
15	64QAM	36	39	21.41	21.39	21.40	
15	64QAM	75	0	21.40	21.37	21.41	
15	256QAM	1	0	19.14	19.06	19.13	20.2
15	256QAM	1	37	18.89	18.90	18.82	
15	256QAM	1	74	18.92	18.93	18.77	
15	256QAM	36	0	19.02	19.15	19.08	20.2
15	256QAM	36	20	18.95	19.04	19.00	



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15	256QAM	36	39	18.94	18.91	18.84	Tune-up limit (dBm)
15	256QAM	75	0	18.93	18.96	19.00	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.35	24.31	24.35	25.2
10	QPSK	1	25	24.29	24.23	24.27	
10	QPSK	1	49	24.35	24.31	24.35	
10	QPSK	25	0	23.36	23.34	23.36	24.2
10	QPSK	25	12	23.34	23.34	23.36	
10	QPSK	25	25	23.37	23.34	23.37	
10	QPSK	50	0	23.36	23.34	23.36	24.2
10	16QAM	1	0	23.32	23.24	23.34	
10	16QAM	1	25	23.34	23.21	23.31	
10	16QAM	1	49	23.41	23.22	23.32	23.2
10	16QAM	25	0	22.40	22.38	22.43	
10	16QAM	25	12	22.39	22.43	22.41	
10	16QAM	25	25	22.42	22.40	22.43	23.2
10	16QAM	50	0	22.40	22.35	22.38	
10	64QAM	1	0	22.36	22.11	22.19	
10	64QAM	1	25	22.33	22.00	22.15	23.2
10	64QAM	1	49	22.40	22.13	22.20	
10	64QAM	25	0	21.38	21.36	21.38	
10	64QAM	25	12	21.40	21.36	21.41	22.2
10	64QAM	25	25	21.42	21.39	21.39	
10	64QAM	50	0	21.40	21.37	21.40	
10	256QAM	1	0	19.09	19.11	19.07	20.2
10	256QAM	1	25	18.96	18.87	18.79	
10	256QAM	1	49	18.90	18.88	18.82	
10	256QAM	25	0	18.96	19.14	19.10	20.2
10	256QAM	25	12	19.01	18.99	19.00	
10	256QAM	25	25	18.91	18.91	18.92	
10	256QAM	50	0	18.88	18.98	18.93	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)
5	QPSK	1	0	24.31	24.27	24.32	
5	QPSK	1	12	24.30	24.26	24.37	25.2
5	QPSK	1	24	24.31	24.24	24.31	
5	QPSK	12	0	23.31	23.26	23.29	24.2
5	QPSK	12	7	23.32	23.28	23.28	
5	QPSK	12	13	23.31	23.27	23.30	
5	QPSK	25	0	23.28	23.30	23.33	24.2
5	16QAM	1	0	23.45	23.29	23.41	
5	16QAM	1	12	23.59	23.36	23.38	
5	16QAM	1	24	23.48	23.36	23.41	23.2
5	16QAM	12	0	22.29	22.18	22.27	
5	16QAM	12	7	22.29	22.28	22.33	
5	16QAM	12	13	22.31	22.24	22.30	23.2
5	16QAM	25	0	22.36	22.33	22.41	
5	64QAM	1	0	22.20	22.09	22.16	
5	64QAM	1	12	22.29	22.20	22.08	22.2
5	64QAM	1	24	22.18	22.14	22.11	
5	64QAM	12	0	21.31	21.24	21.27	
5	64QAM	12	7	21.34	21.29	21.31	20.2
5	64QAM	12	13	21.34	21.26	21.32	
5	64QAM	25	0	21.33	21.33	21.39	
5	256QAM	1	0	19.11	19.11	19.09	20.2
5	256QAM	1	12	18.94	18.89	18.84	
5	256QAM	1	24	18.91	18.86	18.77	
5	256QAM	12	0	18.96	19.14	19.03	20.2
5	256QAM	12	7	19.01	19.02	18.95	
5	256QAM	12	13	18.94	18.96	18.88	
5	256QAM	25	0	18.91	18.99	18.97	



<LTE Band 38_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.37	24.39	24.37	25.2
20	QPSK	1	49	24.36	24.34	24.36	
20	QPSK	1	99	24.35	24.33	24.34	
20	QPSK	50	0	23.41	23.42	23.41	24.2
20	QPSK	50	24	23.40	23.40	23.38	
20	QPSK	50	50	23.40	23.37	23.40	
20	QPSK	100	0	23.40	23.41	23.40	24.2
20	16QAM	1	0	23.48	23.37	23.41	
20	16QAM	1	49	23.43	23.34	23.40	
20	16QAM	1	99	23.46	23.41	23.47	23.2
20	16QAM	50	0	22.38	22.35	22.38	
20	16QAM	50	24	22.43	22.36	22.36	
20	16QAM	50	50	22.41	22.33	22.39	23.2
20	16QAM	100	0	22.41	22.36	22.42	
20	64QAM	1	0	22.25	22.18	22.23	
20	64QAM	1	49	22.21	22.21	22.20	23.2
20	64QAM	1	99	22.27	22.23	22.26	
20	64QAM	50	0	21.43	21.37	21.40	22.2
20	64QAM	50	24	21.44	21.39	21.40	
20	64QAM	50	50	21.45	21.38	21.40	
20	64QAM	100	0	21.42	21.36	21.40	20.2
20	256QAM	1	0	19.14	19.15	19.13	
20	256QAM	1	49	18.96	18.97	18.88	
20	256QAM	1	99	18.92	18.94	18.84	20.2
20	256QAM	50	0	19.05	19.15	19.10	
20	256QAM	50	24	19.01	19.08	19.02	
20	256QAM	50	50	18.96	19.01	18.93	20.2
20	256QAM	100	0	18.96	19.03	19.00	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.33	24.32	24.28	
15	QPSK	1	37	24.33	24.04	24.17	25.2
15	QPSK	1	74	24.34	24.32	24.34	
15	QPSK	36	0	23.44	23.38	23.41	24.2
15	QPSK	36	20	23.42	23.38	23.39	
15	QPSK	36	39	23.42	23.36	23.40	
15	QPSK	75	0	23.41	23.35	23.39	24.2
15	16QAM	1	0	23.57	23.39	23.44	
15	16QAM	1	37	23.56	23.37	23.38	
15	16QAM	1	74	23.65	23.37	23.42	23.2
15	16QAM	36	0	22.41	22.31	22.35	
15	16QAM	36	20	22.43	22.32	22.35	
15	16QAM	36	39	22.41	22.34	22.36	23.2
15	16QAM	75	0	22.44	22.38	22.43	
15	64QAM	1	0	22.31	22.27	22.35	
15	64QAM	1	37	22.32	22.16	22.40	22.2
15	64QAM	1	74	22.32	22.23	22.35	
15	64QAM	36	0	21.43	21.35	21.40	
15	64QAM	36	20	21.40	21.37	21.39	20.2
15	64QAM	36	39	21.41	21.39	21.40	
15	64QAM	75	0	21.40	21.37	21.41	
15	256QAM	1	0	19.14	19.06	19.13	20.2
15	256QAM	1	37	18.89	18.90	18.82	
15	256QAM	1	74	18.92	18.93	18.77	
15	256QAM	36	0	19.02	19.15	19.08	20.2
15	256QAM	36	20	18.95	19.04	19.00	
15	256QAM	36	39	18.94	18.91	18.84	
15	256QAM	75	0	18.93	18.96	19.00	



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Report No. :FA451606B

Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.35	24.31	24.35	25.2
10	QPSK	1	25	24.29	24.23	24.27	
10	QPSK	1	49	24.35	24.31	24.35	
10	QPSK	25	0	23.36	23.34	23.36	24.2
10	QPSK	25	12	23.34	23.34	23.36	
10	QPSK	25	25	23.37	23.34	23.37	
10	QPSK	50	0	23.36	23.34	23.36	24.2
10	16QAM	1	0	23.32	23.24	23.34	
10	16QAM	1	25	23.34	23.21	23.31	
10	16QAM	1	49	23.41	23.22	23.32	23.2
10	16QAM	25	0	22.40	22.38	22.43	
10	16QAM	25	12	22.39	22.43	22.41	
10	16QAM	25	25	22.42	22.40	22.43	23.2
10	16QAM	50	0	22.40	22.35	22.38	
10	64QAM	1	0	22.36	22.11	22.19	
10	64QAM	1	25	22.33	22.00	22.15	22.2
10	64QAM	1	49	22.40	22.13	22.20	
10	64QAM	25	0	21.38	21.36	21.38	
10	64QAM	25	12	21.40	21.36	21.41	20.2
10	64QAM	25	25	21.42	21.39	21.39	
10	64QAM	50	0	21.40	21.37	21.40	
10	256QAM	1	0	19.09	19.11	19.07	20.2
10	256QAM	1	25	18.96	18.87	18.79	
10	256QAM	1	49	18.90	18.88	18.82	
10	256QAM	25	0	18.96	19.14	19.10	20.2
10	256QAM	25	12	19.01	18.99	19.00	
10	256QAM	25	25	18.91	18.91	18.92	
10	256QAM	50	0	18.88	18.98	18.93	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.31	24.27	24.32	25.2
5	QPSK	1	12	24.30	24.26	24.37	
5	QPSK	1	24	24.31	24.24	24.31	
5	QPSK	12	0	23.31	23.26	23.29	24.2
5	QPSK	12	7	23.32	23.28	23.28	
5	QPSK	12	13	23.31	23.27	23.30	
5	QPSK	25	0	23.28	23.30	23.33	24.2
5	16QAM	1	0	23.45	23.29	23.41	
5	16QAM	1	12	23.59	23.36	23.38	
5	16QAM	1	24	23.48	23.36	23.41	23.2
5	16QAM	12	0	22.29	22.18	22.27	
5	16QAM	12	7	22.29	22.28	22.33	
5	16QAM	12	13	22.31	22.24	22.30	23.2
5	16QAM	25	0	22.36	22.33	22.41	
5	64QAM	1	0	22.20	22.09	22.16	
5	64QAM	1	12	22.29	22.20	22.08	22.2
5	64QAM	1	24	22.18	22.14	22.11	
5	64QAM	12	0	21.31	21.24	21.27	
5	64QAM	12	7	21.34	21.29	21.31	20.2
5	64QAM	12	13	21.34	21.26	21.32	
5	64QAM	25	0	21.33	21.33	21.39	
5	256QAM	1	0	19.11	19.11	19.09	20.2
5	256QAM	1	12	18.94	18.89	18.84	
5	256QAM	1	24	18.91	18.86	18.77	
5	256QAM	12	0	18.96	19.14	19.03	20.2
5	256QAM	12	7	19.01	19.02	18.95	
5	256QAM	12	13	18.94	18.96	18.88	
5	256QAM	25	0	18.91	18.99	18.97	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.47	22.48	22.46	23.6
20	QPSK	1	49	22.35	22.30	22.34	
20	QPSK	1	99	22.40	22.40	22.42	
20	QPSK	50	0	22.45	22.46	22.43	23.6
20	QPSK	50	24	22.45	22.41	22.45	
20	QPSK	50	50	22.43	22.40	22.43	
20	QPSK	100	0	22.43	22.44	22.43	23.6
20	16QAM	1	0	22.56	22.47	22.59	
20	16QAM	1	49	22.44	22.35	22.44	
20	16QAM	1	99	22.50	22.43	22.53	23.6
20	16QAM	50	0	22.45	22.40	22.46	
20	16QAM	50	24	22.44	22.39	22.45	
20	16QAM	50	50	22.42	22.37	22.45	23.6
20	16QAM	100	0	22.45	22.40	22.48	
20	64QAM	1	0	22.38	22.35	22.37	
20	64QAM	1	49	22.29	22.27	22.17	23.6
20	64QAM	1	99	22.33	22.27	22.25	
20	64QAM	50	0	21.46	21.43	21.47	
20	64QAM	50	24	21.47	21.43	21.45	22.2
20	64QAM	50	50	21.45	21.41	21.45	
20	64QAM	100	0	21.44	21.41	21.45	
20	256QAM	1	0	19.04	19.03	19.03	20.2
20	256QAM	1	49	18.82	18.81	18.75	
20	256QAM	1	99	18.89	18.87	18.73	
20	256QAM	50	0	18.92	19.14	19.06	20.2
20	256QAM	50	24	18.86	19.00	18.91	
20	256QAM	50	50	18.90	18.90	18.83	
20	256QAM	100	0	18.89	18.87	18.94	Tune-up limit (dBm)
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.36	22.43	22.36	23.6
15	QPSK	1	37	22.27	22.18	22.28	
15	QPSK	1	74	22.35	22.30	22.31	
15	QPSK	36	0	22.35	22.37	22.37	23.6
15	QPSK	36	20	22.41	22.40	22.34	
15	QPSK	36	39	22.38	22.31	22.34	
15	QPSK	75	0	22.35	22.34	22.42	23.6
15	16QAM	1	0	22.50	22.36	22.54	
15	16QAM	1	37	22.42	22.33	22.41	
15	16QAM	1	74	22.38	22.36	22.51	23.6
15	16QAM	36	0	22.34	22.30	22.40	
15	16QAM	36	20	22.40	22.30	22.35	
15	16QAM	36	39	22.33	22.32	22.34	23.6
15	16QAM	75	0	22.40	22.33	22.42	
15	64QAM	1	0	22.35	22.34	22.31	
15	64QAM	1	37	22.19	22.19	22.05	23.6
15	64QAM	1	74	22.23	22.17	22.21	
15	64QAM	36	0	21.43	21.42	21.44	
15	64QAM	36	20	21.35	21.37	21.43	22.2
15	64QAM	36	39	21.38	21.39	21.42	
15	64QAM	75	0	21.40	21.35	21.34	
15	256QAM	1	0	18.94	18.94	18.96	20.2
15	256QAM	1	37	18.76	18.74	18.70	
15	256QAM	1	74	18.77	18.84	18.70	
15	256QAM	36	0	18.88	19.05	19.04	20.2
15	256QAM	36	20	18.85	18.96	18.90	
15	256QAM	36	39	18.85	18.85	18.74	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	18.80	18.75	18.85	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.45	22.36	22.43	23.6
10	QPSK	1	25	22.30	22.25	22.28	
10	QPSK	1	49	22.37	22.29	22.39	
10	QPSK	25	0	22.37	22.45	22.34	23.6
10	QPSK	25	12	22.40	22.33	22.41	
10	QPSK	25	25	22.31	22.30	22.36	
10	QPSK	50	0	22.41	22.41	22.31	23.6
10	16QAM	1	0	22.48	22.42	22.49	
10	16QAM	1	25	22.42	22.34	22.43	
10	16QAM	1	49	22.39	22.38	22.48	23.6
10	16QAM	25	0	22.44	22.33	22.39	
10	16QAM	25	12	22.42	22.28	22.41	
10	16QAM	25	25	22.39	22.33	22.36	23.6
10	16QAM	50	0	22.39	22.34	22.39	
10	64QAM	1	0	22.26	22.33	22.33	
10	64QAM	1	25	22.20	22.24	22.14	23.6
10	64QAM	1	49	22.21	22.17	22.14	
10	64QAM	25	0	21.38	21.31	21.44	
10	64QAM	25	12	21.43	21.38	21.40	22.2
10	64QAM	25	25	21.34	21.36	21.37	
10	64QAM	50	0	21.32	21.30	21.35	
10	256QAM	1	0	18.93	19.00	18.97	20.2
10	256QAM	1	25	18.80	18.78	18.68	
10	256QAM	1	49	18.80	18.76	18.70	
10	256QAM	25	0	18.85	19.03	18.97	20.2
10	256QAM	25	12	18.80	18.89	18.87	
10	256QAM	25	25	18.82	18.80	18.73	
10	256QAM	50	0	18.88	18.81	18.92	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.46	22.36	22.34	23.6
5	QPSK	1	12	22.33	22.20	22.29	
5	QPSK	1	24	22.30	22.39	22.41	
5	QPSK	12	0	22.33	22.44	22.33	23.6
5	QPSK	12	7	22.42	22.31	22.37	
5	QPSK	12	13	22.42	22.35	22.32	
5	QPSK	25	0	22.31	22.41	22.38	23.6
5	16QAM	1	0	22.50	22.43	22.53	
5	16QAM	1	12	22.34	22.28	22.42	
5	16QAM	1	24	22.44	22.35	22.51	23.6
5	16QAM	12	0	22.37	22.31	22.40	
5	16QAM	12	7	22.40	22.28	22.35	
5	16QAM	12	13	22.34	22.34	22.33	23.6
5	16QAM	25	0	22.33	22.30	22.43	
5	64QAM	1	0	22.27	22.25	22.25	
5	64QAM	1	12	22.21	22.19	22.06	23.6
5	64QAM	1	24	22.26	22.19	22.15	
5	64QAM	12	0	21.34	21.39	21.46	
5	64QAM	12	7	21.37	21.41	21.38	22.2
5	64QAM	12	13	21.42	21.30	21.41	
5	64QAM	25	0	21.35	21.35	21.36	
5	256QAM	1	0	19.02	18.95	18.98	20.2
5	256QAM	1	12	18.76	18.77	18.72	
5	256QAM	1	24	18.84	18.81	18.62	
5	256QAM	12	0	18.85	19.02	18.95	20.2
5	256QAM	12	7	18.79	18.96	18.86	
5	256QAM	12	13	18.87	18.89	18.73	
5	256QAM	25	0	18.80	18.79	18.86	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.37	24.39	24.37	25.2
20	QPSK	1	49	24.36	24.34	24.36	
20	QPSK	1	99	24.35	24.33	24.34	
20	QPSK	50	0	23.41	23.42	23.41	24.2
20	QPSK	50	24	23.40	23.40	23.38	
20	QPSK	50	50	23.40	23.37	23.40	
20	QPSK	100	0	23.40	23.41	23.40	24.2
20	16QAM	1	0	23.48	23.37	23.41	
20	16QAM	1	49	23.43	23.34	23.40	
20	16QAM	1	99	23.46	23.41	23.47	23.2
20	16QAM	50	0	22.38	22.35	22.38	
20	16QAM	50	24	22.43	22.36	22.36	
20	16QAM	50	50	22.41	22.33	22.39	23.2
20	16QAM	100	0	22.41	22.36	22.42	
20	64QAM	1	0	22.25	22.18	22.23	
20	64QAM	1	49	22.21	22.21	22.20	23.2
20	64QAM	1	99	22.27	22.23	22.26	
20	64QAM	50	0	21.43	21.37	21.40	22.2
20	64QAM	50	24	21.44	21.39	21.40	
20	64QAM	50	50	21.45	21.38	21.40	
20	64QAM	100	0	21.42	21.36	21.40	20.2
20	256QAM	1	0	19.14	19.15	19.13	
20	256QAM	1	49	18.96	18.97	18.88	
20	256QAM	1	99	18.92	18.94	18.84	20.2
20	256QAM	50	0	19.05	19.15	19.10	
20	256QAM	50	24	19.01	19.08	19.02	
20	256QAM	50	50	18.96	19.01	18.93	20.2
20	256QAM	100	0	18.96	19.03	19.00	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.33	24.32	24.28	25.2
15	QPSK	1	37	24.33	24.04	24.17	
15	QPSK	1	74	24.34	24.32	24.34	
15	QPSK	36	0	23.44	23.38	23.41	24.2
15	QPSK	36	20	23.42	23.38	23.39	
15	QPSK	36	39	23.42	23.36	23.40	
15	QPSK	75	0	23.41	23.35	23.39	24.2
15	16QAM	1	0	23.57	23.39	23.44	
15	16QAM	1	37	23.56	23.37	23.38	
15	16QAM	1	74	23.65	23.37	23.42	23.2
15	16QAM	36	0	22.41	22.31	22.35	
15	16QAM	36	20	22.43	22.32	22.35	
15	16QAM	36	39	22.41	22.34	22.36	23.2
15	16QAM	75	0	22.44	22.38	22.43	
15	64QAM	1	0	22.31	22.27	22.35	
15	64QAM	1	37	22.32	22.16	22.40	23.2
15	64QAM	1	74	22.32	22.23	22.35	
15	64QAM	36	0	21.43	21.35	21.40	22.2
15	64QAM	36	20	21.40	21.37	21.39	
15	64QAM	36	39	21.41	21.39	21.40	
15	64QAM	75	0	21.40	21.37	21.41	20.2
15	256QAM	1	0	19.14	19.06	19.13	
15	256QAM	1	37	18.89	18.90	18.82	
15	256QAM	1	74	18.92	18.93	18.77	20.2
15	256QAM	36	0	19.02	19.15	19.08	
15	256QAM	36	20	18.95	19.04	19.00	
15	256QAM	36	39	18.94	18.91	18.84	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	18.93	18.96	19.00	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.35	24.31	24.35	25.2
10	QPSK	1	25	24.29	24.23	24.27	
10	QPSK	1	49	24.35	24.31	24.35	
10	QPSK	25	0	23.36	23.34	23.36	24.2
10	QPSK	25	12	23.34	23.34	23.36	
10	QPSK	25	25	23.37	23.34	23.37	
10	QPSK	50	0	23.36	23.34	23.36	
10	16QAM	1	0	23.32	23.24	23.34	24.2
10	16QAM	1	25	23.34	23.21	23.31	
10	16QAM	1	49	23.41	23.22	23.32	
10	16QAM	25	0	22.40	22.38	22.43	23.2
10	16QAM	25	12	22.39	22.43	22.41	
10	16QAM	25	25	22.42	22.40	22.43	
10	16QAM	50	0	22.40	22.35	22.38	
10	64QAM	1	0	22.36	22.11	22.19	23.2
10	64QAM	1	25	22.33	22.00	22.15	
10	64QAM	1	49	22.40	22.13	22.20	
10	64QAM	25	0	21.38	21.36	21.38	22.2
10	64QAM	25	12	21.40	21.36	21.41	
10	64QAM	25	25	21.42	21.39	21.39	
10	64QAM	50	0	21.40	21.37	21.40	
10	256QAM	1	0	19.09	19.11	19.07	20.2
10	256QAM	1	25	18.96	18.87	18.79	
10	256QAM	1	49	18.90	18.88	18.82	
10	256QAM	25	0	18.96	19.14	19.10	20.2
10	256QAM	25	12	19.01	18.99	19.00	
10	256QAM	25	25	18.91	18.91	18.92	
10	256QAM	50	0	18.88	18.98	18.93	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.31	24.27	24.32	25.2
5	QPSK	1	12	24.30	24.26	24.37	
5	QPSK	1	24	24.31	24.24	24.31	
5	QPSK	12	0	23.31	23.26	23.29	24.2
5	QPSK	12	7	23.32	23.28	23.28	
5	QPSK	12	13	23.31	23.27	23.30	
5	QPSK	25	0	23.28	23.30	23.33	
5	16QAM	1	0	23.45	23.29	23.41	24.2
5	16QAM	1	12	23.59	23.36	23.38	
5	16QAM	1	24	23.48	23.36	23.41	
5	16QAM	12	0	22.29	22.18	22.27	23.2
5	16QAM	12	7	22.29	22.28	22.33	
5	16QAM	12	13	22.31	22.24	22.30	
5	16QAM	25	0	22.36	22.33	22.41	
5	64QAM	1	0	22.20	22.09	22.16	23.2
5	64QAM	1	12	22.29	22.20	22.08	
5	64QAM	1	24	22.18	22.14	22.11	
5	64QAM	12	0	21.31	21.24	21.27	
5	64QAM	12	7	21.34	21.29	21.31	22.2
5	64QAM	12	13	21.34	21.26	21.32	
5	64QAM	25	0	21.33	21.33	21.39	
5	256QAM	1	0	19.11	19.11	19.09	
5	256QAM	1	12	18.94	18.89	18.84	20.2
5	256QAM	1	24	18.91	18.86	18.77	
5	256QAM	12	0	18.96	19.14	19.03	
5	256QAM	12	7	19.01	19.02	18.95	20.2
5	256QAM	12	13	18.94	18.96	18.88	
5	256QAM	25	0	18.91	18.99	18.97	



<LTE Band 38_Ant 0_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.47	22.48	22.46	
20	QPSK	1	49	22.35	22.30	22.34	23.6
20	QPSK	1	99	22.40	22.40	22.42	
20	QPSK	50	0	22.45	22.46	22.43	
20	QPSK	50	24	22.45	22.41	22.45	23.6
20	QPSK	50	50	22.43	22.40	22.43	
20	QPSK	100	0	22.43	22.44	22.43	
20	16QAM	1	0	22.56	22.47	22.59	23.6
20	16QAM	1	49	22.44	22.35	22.44	
20	16QAM	1	99	22.50	22.43	22.53	
20	16QAM	50	0	22.45	22.40	22.46	23.6
20	16QAM	50	24	22.44	22.39	22.45	
20	16QAM	50	50	22.42	22.37	22.45	
20	16QAM	100	0	22.45	22.40	22.48	23.6
20	64QAM	1	0	22.38	22.35	22.37	
20	64QAM	1	49	22.29	22.27	22.17	
20	64QAM	1	99	22.33	22.27	22.25	22.2
20	64QAM	50	0	21.46	21.43	21.47	
20	64QAM	50	24	21.47	21.43	21.45	
20	64QAM	50	50	21.45	21.41	21.45	20.2
20	64QAM	100	0	21.44	21.41	21.45	
20	256QAM	1	0	19.04	19.03	19.03	
20	256QAM	1	49	18.82	18.81	18.75	20.2
20	256QAM	1	99	18.89	18.87	18.73	
20	256QAM	50	0	18.92	19.14	19.06	
20	256QAM	50	24	18.86	19.00	18.91	20.2
20	256QAM	50	50	18.90	18.90	18.83	
20	256QAM	100	0	18.89	18.87	18.94	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.36	22.43	22.36	
15	QPSK	1	37	22.27	22.18	22.28	23.6
15	QPSK	1	74	22.35	22.30	22.31	
15	QPSK	36	0	22.35	22.37	22.37	23.6
15	QPSK	36	20	22.41	22.40	22.34	
15	QPSK	36	39	22.38	22.31	22.34	
15	QPSK	75	0	22.35	22.34	22.42	23.6
15	16QAM	1	0	22.50	22.36	22.54	
15	16QAM	1	37	22.42	22.33	22.41	
15	16QAM	1	74	22.38	22.36	22.51	23.6
15	16QAM	36	0	22.34	22.30	22.40	
15	16QAM	36	20	22.40	22.30	22.35	
15	16QAM	36	39	22.33	22.32	22.34	23.6
15	16QAM	75	0	22.40	22.33	22.42	
15	64QAM	1	0	22.35	22.34	22.31	
15	64QAM	1	37	22.19	22.19	22.05	22.2
15	64QAM	1	74	22.23	22.17	22.21	
15	64QAM	36	0	21.43	21.42	21.44	
15	64QAM	36	20	21.35	21.37	21.43	20.2
15	64QAM	36	39	21.38	21.39	21.42	
15	64QAM	75	0	21.40	21.35	21.34	
15	256QAM	1	0	18.94	18.94	18.96	20.2
15	256QAM	1	37	18.76	18.74	18.70	
15	256QAM	1	74	18.77	18.84	18.70	
15	256QAM	36	0	18.88	19.05	19.04	20.2
15	256QAM	36	20	18.85	18.96	18.90	
15	256QAM	36	39	18.85	18.85	18.74	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	18.80	18.75	18.85	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.45	22.36	22.43	23.6
10	QPSK	1	25	22.30	22.25	22.28	
10	QPSK	1	49	22.37	22.29	22.39	
10	QPSK	25	0	22.37	22.45	22.34	23.6
10	QPSK	25	12	22.40	22.33	22.41	
10	QPSK	25	25	22.31	22.30	22.36	
10	QPSK	50	0	22.41	22.41	22.31	
10	16QAM	1	0	22.48	22.42	22.49	23.6
10	16QAM	1	25	22.42	22.34	22.43	
10	16QAM	1	49	22.39	22.38	22.48	
10	16QAM	25	0	22.44	22.33	22.39	23.6
10	16QAM	25	12	22.42	22.28	22.41	
10	16QAM	25	25	22.39	22.33	22.36	
10	16QAM	50	0	22.39	22.34	22.39	
10	64QAM	1	0	22.26	22.33	22.33	23.6
10	64QAM	1	25	22.20	22.24	22.14	
10	64QAM	1	49	22.21	22.17	22.14	
10	64QAM	25	0	21.38	21.31	21.44	22.2
10	64QAM	25	12	21.43	21.38	21.40	
10	64QAM	25	25	21.34	21.36	21.37	
10	64QAM	50	0	21.32	21.30	21.35	
10	256QAM	1	0	18.93	19.00	18.97	20.2
10	256QAM	1	25	18.80	18.78	18.68	
10	256QAM	1	49	18.80	18.76	18.70	
10	256QAM	25	0	18.85	19.03	18.97	20.2
10	256QAM	25	12	18.80	18.89	18.87	
10	256QAM	25	25	18.82	18.80	18.73	
10	256QAM	50	0	18.88	18.81	18.92	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.46	22.36	22.34	23.6
5	QPSK	1	12	22.33	22.20	22.29	
5	QPSK	1	24	22.30	22.39	22.41	
5	QPSK	12	0	22.33	22.44	22.33	23.6
5	QPSK	12	7	22.42	22.31	22.37	
5	QPSK	12	13	22.42	22.35	22.32	
5	QPSK	25	0	22.31	22.41	22.38	
5	16QAM	1	0	22.50	22.43	22.53	23.6
5	16QAM	1	12	22.34	22.28	22.42	
5	16QAM	1	24	22.44	22.35	22.51	
5	16QAM	12	0	22.37	22.31	22.40	23.6
5	16QAM	12	7	22.40	22.28	22.35	
5	16QAM	12	13	22.34	22.34	22.33	
5	16QAM	25	0	22.33	22.30	22.43	
5	64QAM	1	0	22.27	22.25	22.25	23.6
5	64QAM	1	12	22.21	22.19	22.06	
5	64QAM	1	24	22.26	22.19	22.15	
5	64QAM	12	0	21.34	21.39	21.46	22.2
5	64QAM	12	7	21.37	21.41	21.38	
5	64QAM	12	13	21.42	21.30	21.41	
5	64QAM	25	0	21.35	21.35	21.36	
5	256QAM	1	0	19.02	18.95	18.98	20.2
5	256QAM	1	12	18.76	18.77	18.72	
5	256QAM	1	24	18.84	18.81	18.62	
5	256QAM	12	0	18.85	19.02	18.95	20.2
5	256QAM	12	7	18.79	18.96	18.86	
5	256QAM	12	13	18.87	18.89	18.73	
5	256QAM	25	0	18.80	18.79	18.86	



<LTE Band 38_HPUE_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	26.10	26.12	26.11	27
20	QPSK	1	49	26.09	26.11	26.10	
20	QPSK	1	99	25.99	25.98	25.99	
20	QPSK	50	0	25.15	25.16	25.15	26
20	QPSK	50	24	25.13	25.12	25.14	
20	QPSK	50	50	25.14	25.12	25.13	
20	QPSK	100	0	25.12	25.14	25.13	26
20	16QAM	1	0	25.60	25.20	25.45	
20	16QAM	1	49	25.66	25.24	25.64	
20	16QAM	1	99	25.43	25.24	25.42	25
20	16QAM	50	0	24.13	24.09	24.10	
20	16QAM	50	24	24.13	24.07	24.13	
20	16QAM	50	50	24.16	24.09	24.12	25
20	16QAM	100	0	24.13	24.08	24.11	
20	64QAM	1	0	24.13	24.11	24.10	
20	64QAM	1	49	24.15	24.22	24.24	25
20	64QAM	1	99	24.12	24.20	24.23	
20	64QAM	50	0	23.14	23.05	23.08	
20	64QAM	50	24	23.08	23.08	23.12	24
20	64QAM	50	50	23.09	23.14	23.14	
20	64QAM	100	0	23.14	23.11	23.14	
20	256QAM	1	0	20.89	20.95	20.89	22
20	256QAM	1	49	20.66	20.67	20.59	
20	256QAM	1	99	20.69	20.75	20.65	
20	256QAM	50	0	20.94	21.00	20.90	22
20	256QAM	50	24	20.96	20.97	20.92	
20	256QAM	50	50	20.92	20.92	20.82	
20	256QAM	100	0	20.75	20.84	20.82	Tune-up limit (dBm)
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	26.04	26.04	26.06	27
15	QPSK	1	37	25.87	25.84	25.85	
15	QPSK	1	74	26.07	26.02	26.06	
15	QPSK	36	0	25.10	25.08	25.13	26
15	QPSK	36	20	25.09	25.09	25.13	
15	QPSK	36	39	25.10	25.10	25.13	
15	QPSK	75	0	25.08	25.08	25.13	26
15	16QAM	1	0	25.30	25.52	25.41	
15	16QAM	1	37	25.42	25.02	24.91	
15	16QAM	1	74	25.46	25.20	25.22	25
15	16QAM	36	0	24.10	24.03	24.09	
15	16QAM	36	20	24.09	24.07	24.09	
15	16QAM	36	39	24.13	24.03	24.11	25
15	16QAM	75	0	24.14	24.07	24.14	
15	64QAM	1	0	24.11	24.20	24.28	
15	64QAM	1	37	23.82	24.05	23.99	24
15	64QAM	1	74	24.13	24.29	24.33	
15	64QAM	36	0	23.08	23.06	23.11	
15	64QAM	36	20	23.10	23.07	23.12	22
15	64QAM	36	39	23.10	23.10	23.13	
15	64QAM	75	0	23.12	23.09	23.14	
15	256QAM	1	0	20.87	20.88	20.88	22
15	256QAM	1	37	20.61	20.67	20.55	
15	256QAM	1	74	20.62	20.66	20.64	
15	256QAM	36	0	20.91	20.99	20.87	22
15	256QAM	36	20	20.93	20.93	20.85	
15	256QAM	36	39	20.88	20.91	20.73	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	20.73	20.80	20.75	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	26.10	26.10	26.10	27
10	QPSK	1	25	26.06	26.08	26.10	
10	QPSK	1	49	26.10	26.10	26.10	
10	QPSK	25	0	25.10	25.12	25.15	26
10	QPSK	25	12	25.15	25.13	25.14	
10	QPSK	25	25	25.14	25.12	25.15	
10	QPSK	50	0	25.16	25.18	25.19	
10	16QAM	1	0	25.32	25.17	25.27	26
10	16QAM	1	25	25.18	25.15	25.18	
10	16QAM	1	49	25.16	25.14	25.16	
10	16QAM	25	0	24.22	24.22	24.27	25
10	16QAM	25	12	24.21	24.26	24.23	
10	16QAM	25	25	24.24	24.19	24.24	
10	16QAM	50	0	24.16	24.12	24.20	
10	64QAM	1	0	24.52	24.44	24.54	25
10	64QAM	1	25	24.41	24.34	24.41	
10	64QAM	1	49	24.44	24.22	24.44	
10	64QAM	25	0	23.21	23.19	23.22	24
10	64QAM	25	12	23.19	23.19	23.24	
10	64QAM	25	25	23.20	23.21	23.22	
10	64QAM	50	0	23.15	23.15	23.21	
10	256QAM	1	0	20.81	20.91	20.85	22
10	256QAM	1	25	20.62	20.67	20.54	
10	256QAM	1	49	20.65	20.66	20.61	
10	256QAM	25	0	20.86	20.91	20.81	22
10	256QAM	25	12	20.89	20.93	20.91	
10	256QAM	25	25	20.89	20.84	20.79	
10	256QAM	50	0	20.71	20.78	20.81	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	26.10	26.10	26.02	27
5	QPSK	1	12	26.05	26.05	26.01	
5	QPSK	1	24	26.05	26.10	26.09	
5	QPSK	12	0	25.15	25.13	25.21	26
5	QPSK	12	7	25.20	25.11	25.21	
5	QPSK	12	13	25.18	25.13	25.21	
5	QPSK	25	0	25.18	25.13	25.22	
5	16QAM	1	0	25.54	25.38	25.57	26
5	16QAM	1	12	25.34	25.29	25.35	
5	16QAM	1	24	25.63	25.62	25.63	
5	16QAM	12	0	24.23	24.22	24.27	25
5	16QAM	12	7	24.22	24.24	24.23	
5	16QAM	12	13	24.25	24.22	24.26	
5	16QAM	25	0	24.22	24.19	24.26	
5	64QAM	1	0	24.31	24.33	24.33	25
5	64QAM	1	12	24.11	23.90	24.06	
5	64QAM	1	24	24.44	24.23	24.44	
5	64QAM	12	0	23.22	23.13	23.27	24
5	64QAM	12	7	23.31	23.19	23.30	
5	64QAM	12	13	23.27	23.19	23.30	
5	64QAM	25	0	23.17	23.15	23.18	
5	256QAM	1	0	20.86	20.85	20.89	22
5	256QAM	1	12	20.59	20.67	20.56	
5	256QAM	1	24	20.59	20.65	20.58	
5	256QAM	12	0	20.84	20.90	20.81	22
5	256QAM	12	7	20.95	20.90	20.92	
5	256QAM	12	13	20.89	20.87	20.81	
5	256QAM	25	0	20.73	20.76	20.73	



<LTE Band 38_HPUE_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	26.10	26.12	26.11	27
20	QPSK	1	49	26.09	26.11	26.10	
20	QPSK	1	99	25.99	25.98	25.99	
20	QPSK	50	0	25.15	25.16	25.15	26
20	QPSK	50	24	25.13	25.12	25.14	
20	QPSK	50	50	25.14	25.12	25.13	
20	QPSK	100	0	25.12	25.14	25.13	26
20	16QAM	1	0	25.60	25.20	25.45	
20	16QAM	1	49	25.66	25.24	25.64	
20	16QAM	1	99	25.43	25.24	25.42	25
20	16QAM	50	0	24.13	24.09	24.10	
20	16QAM	50	24	24.13	24.07	24.13	
20	16QAM	50	50	24.16	24.09	24.12	25
20	16QAM	100	0	24.13	24.08	24.11	
20	64QAM	1	0	24.13	24.11	24.10	
20	64QAM	1	49	24.15	24.22	24.24	25
20	64QAM	1	99	24.12	24.20	24.23	
20	64QAM	50	0	23.14	23.05	23.08	
20	64QAM	50	24	23.08	23.08	23.12	24
20	64QAM	50	50	23.09	23.14	23.14	
20	64QAM	100	0	23.14	23.11	23.14	
20	256QAM	1	0	20.89	20.95	20.89	22
20	256QAM	1	49	20.66	20.67	20.59	
20	256QAM	1	99	20.69	20.75	20.65	
20	256QAM	50	0	20.94	21.00	20.90	22
20	256QAM	50	24	20.96	20.97	20.92	
20	256QAM	50	50	20.92	20.92	20.82	
20	256QAM	100	0	20.75	20.84	20.82	Tune-up limit (dBm)
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	26.04	26.04	26.06	27
15	QPSK	1	37	25.87	25.84	25.85	
15	QPSK	1	74	26.07	26.02	26.06	
15	QPSK	36	0	25.10	25.08	25.13	26
15	QPSK	36	20	25.09	25.09	25.13	
15	QPSK	36	39	25.10	25.10	25.13	
15	QPSK	75	0	25.08	25.08	25.13	26
15	16QAM	1	0	25.30	25.52	25.41	
15	16QAM	1	37	25.42	25.02	24.91	
15	16QAM	1	74	25.46	25.20	25.22	25
15	16QAM	36	0	24.10	24.03	24.09	
15	16QAM	36	20	24.09	24.07	24.09	
15	16QAM	36	39	24.13	24.03	24.11	25
15	16QAM	75	0	24.14	24.07	24.14	
15	64QAM	1	0	24.11	24.20	24.28	
15	64QAM	1	37	23.82	24.05	23.99	25
15	64QAM	1	74	24.13	24.29	24.33	
15	64QAM	36	0	23.08	23.06	23.11	
15	64QAM	36	20	23.10	23.07	23.12	24
15	64QAM	36	39	23.10	23.10	23.13	
15	64QAM	75	0	23.12	23.09	23.14	
15	256QAM	1	0	20.87	20.88	20.88	22
15	256QAM	1	37	20.61	20.67	20.55	
15	256QAM	1	74	20.62	20.66	20.64	
15	256QAM	36	0	20.91	20.99	20.87	22
15	256QAM	36	20	20.93	20.93	20.85	
15	256QAM	36	39	20.88	20.91	20.73	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	20.73	20.80	20.75	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	26.10	26.10	26.10	27
10	QPSK	1	25	26.06	26.08	26.10	
10	QPSK	1	49	26.10	26.10	26.10	
10	QPSK	25	0	25.10	25.12	25.15	26
10	QPSK	25	12	25.15	25.13	25.14	
10	QPSK	25	25	25.14	25.12	25.15	
10	QPSK	50	0	25.16	25.18	25.19	
10	16QAM	1	0	25.32	25.17	25.27	26
10	16QAM	1	25	25.18	25.15	25.18	
10	16QAM	1	49	25.16	25.14	25.16	
10	16QAM	25	0	24.22	24.22	24.27	25
10	16QAM	25	12	24.21	24.26	24.23	
10	16QAM	25	25	24.24	24.19	24.24	
10	16QAM	50	0	24.16	24.12	24.20	
10	64QAM	1	0	24.52	24.44	24.54	25
10	64QAM	1	25	24.41	24.34	24.41	
10	64QAM	1	49	24.44	24.22	24.44	
10	64QAM	25	0	23.21	23.19	23.22	24
10	64QAM	25	12	23.19	23.19	23.24	
10	64QAM	25	25	23.20	23.21	23.22	
10	64QAM	50	0	23.15	23.15	23.21	
10	256QAM	1	0	20.81	20.91	20.85	22
10	256QAM	1	25	20.62	20.67	20.54	
10	256QAM	1	49	20.65	20.66	20.61	
10	256QAM	25	0	20.86	20.91	20.81	22
10	256QAM	25	12	20.89	20.93	20.91	
10	256QAM	25	25	20.89	20.84	20.79	
10	256QAM	50	0	20.71	20.78	20.81	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	26.10	26.10	26.02	27
5	QPSK	1	12	26.05	26.05	26.01	
5	QPSK	1	24	26.05	26.10	26.09	
5	QPSK	12	0	25.15	25.13	25.21	26
5	QPSK	12	7	25.20	25.11	25.21	
5	QPSK	12	13	25.18	25.13	25.21	
5	QPSK	25	0	25.18	25.13	25.22	
5	16QAM	1	0	25.54	25.38	25.57	26
5	16QAM	1	12	25.34	25.29	25.35	
5	16QAM	1	24	25.63	25.62	25.63	
5	16QAM	12	0	24.23	24.22	24.27	25
5	16QAM	12	7	24.22	24.24	24.23	
5	16QAM	12	13	24.25	24.22	24.26	
5	16QAM	25	0	24.22	24.19	24.26	
5	64QAM	1	0	24.31	24.33	24.33	25
5	64QAM	1	12	24.11	23.90	24.06	
5	64QAM	1	24	24.44	24.23	24.44	
5	64QAM	12	0	23.22	23.13	23.27	24
5	64QAM	12	7	23.31	23.19	23.30	
5	64QAM	12	13	23.27	23.19	23.30	
5	64QAM	25	0	23.17	23.15	23.18	
5	256QAM	1	0	20.86	20.85	20.89	22
5	256QAM	1	12	20.59	20.67	20.56	
5	256QAM	1	24	20.59	20.65	20.58	
5	256QAM	12	0	20.84	20.90	20.81	22
5	256QAM	12	7	20.95	20.90	20.92	
5	256QAM	12	13	20.89	20.87	20.81	
5	256QAM	25	0	20.73	20.76	20.73	



<LTE Band 38_HPUE_Ant 0_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.37	24.46	24.45	25.2
20	QPSK	1	49	24.38	24.41	24.44	
20	QPSK	1	99	24.36	24.38	24.43	
20	QPSK	50	0	24.46	24.49	24.48	25.2
20	QPSK	50	24	24.41	24.45	24.48	
20	QPSK	50	50	24.42	24.44	24.48	
20	QPSK	100	0	24.42	24.47	24.46	25.2
20	16QAM	1	0	24.80	24.84	24.83	
20	16QAM	1	49	24.59	24.62	24.42	
20	16QAM	1	99	24.81	24.81	24.54	25
20	16QAM	50	0	24.25	24.24	24.30	
20	16QAM	50	24	24.23	24.26	24.29	
20	16QAM	50	50	24.24	24.24	24.29	25
20	16QAM	100	0	24.25	24.26	24.29	
20	64QAM	1	0	24.23	24.38	24.46	
20	64QAM	1	49	24.17	24.17	24.35	24
20	64QAM	1	99	24.16	24.15	24.27	
20	64QAM	50	0	23.25	23.27	23.29	
20	64QAM	50	24	23.26	23.24	23.28	22
20	64QAM	50	50	23.22	23.23	23.28	
20	64QAM	100	0	23.29	23.25	23.29	
20	256QAM	1	0	20.82	20.78	20.83	22
20	256QAM	1	49	20.58	20.58	20.52	
20	256QAM	1	99	20.52	20.64	20.56	
20	256QAM	50	0	20.82	20.95	20.85	22
20	256QAM	50	24	20.92	20.92	20.83	
20	256QAM	50	50	20.85	20.87	20.68	
20	256QAM	100	0	20.67	20.70	20.65	Tune-up limit (dBm)
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.34	24.39	24.44	25.2
15	QPSK	1	37	24.31	24.40	24.34	
15	QPSK	1	74	24.25	24.26	24.31	
15	QPSK	36	0	24.39	24.42	24.42	25.2
15	QPSK	36	20	24.38	24.36	24.46	
15	QPSK	36	39	24.34	24.34	24.42	
15	QPSK	75	0	24.40	24.46	24.40	25.2
15	16QAM	1	0	24.78	24.81	24.78	
15	16QAM	1	37	24.49	24.61	24.32	
15	16QAM	1	74	24.74	24.69	24.51	25
15	16QAM	36	0	24.16	24.13	24.28	
15	16QAM	36	20	24.15	24.24	24.22	
15	16QAM	36	39	24.17	24.20	24.24	25
15	16QAM	75	0	24.21	24.17	24.26	
15	64QAM	1	0	24.16	24.36	24.42	
15	64QAM	1	37	24.11	24.14	24.25	24
15	64QAM	1	74	24.07	24.03	24.18	
15	64QAM	36	0	23.23	23.26	23.23	
15	64QAM	36	20	23.17	23.21	23.20	22
15	64QAM	36	39	23.11	23.18	23.24	
15	64QAM	75	0	23.19	23.21	23.28	
15	256QAM	1	0	20.77	20.77	20.72	22
15	256QAM	1	37	20.51	20.48	20.48	
15	256QAM	1	74	20.49	20.61	20.54	
15	256QAM	36	0	20.70	20.93	20.78	22
15	256QAM	36	20	20.80	20.86	20.82	
15	256QAM	36	39	20.80	20.77	20.65	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	20.61	20.59	20.63	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.35	24.36	24.41	25.2
10	QPSK	1	25	24.29	24.40	24.40	
10	QPSK	1	49	24.25	24.32	24.34	
10	QPSK	25	0	24.34	24.37	24.37	25.2
10	QPSK	25	12	24.37	24.42	24.40	
10	QPSK	25	25	24.41	24.37	24.46	
10	QPSK	50	0	24.36	24.46	24.37	25.2
10	16QAM	1	0	24.68	24.76	24.81	
10	16QAM	1	25	24.52	24.58	24.37	
10	16QAM	1	49	24.72	24.73	24.44	25
10	16QAM	25	0	24.16	24.15	24.19	
10	16QAM	25	12	24.22	24.25	24.27	
10	16QAM	25	25	24.20	24.20	24.18	25
10	16QAM	50	0	24.22	24.18	24.26	
10	64QAM	1	0	24.11	24.30	24.38	
10	64QAM	1	25	24.05	24.10	24.27	25
10	64QAM	1	49	24.13	24.12	24.25	
10	64QAM	25	0	23.14	23.25	23.23	24
10	64QAM	25	12	23.20	23.14	23.27	
10	64QAM	25	25	23.15	23.17	23.20	
10	64QAM	50	0	23.17	23.17	23.19	22
10	256QAM	1	0	20.80	20.75	20.81	
10	256QAM	1	25	20.46	20.49	20.45	
10	256QAM	1	49	20.41	20.62	20.47	22
10	256QAM	25	0	20.77	20.90	20.82	
10	256QAM	25	12	20.81	20.81	20.71	
10	256QAM	25	25	20.82	20.86	20.65	22
10	256QAM	50	0	20.64	20.60	20.63	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.29	24.40	24.40	
5	QPSK	1	12	24.37	24.29	24.40	25.2
5	QPSK	1	24	24.32	24.37	24.34	
5	QPSK	12	0	24.44	24.42	24.40	25.2
5	QPSK	12	7	24.32	24.39	24.39	
5	QPSK	12	13	24.41	24.33	24.46	
5	QPSK	25	0	24.38	24.37	24.39	25.2
5	16QAM	1	0	24.79	24.73	24.78	
5	16QAM	1	12	24.53	24.53	24.30	
5	16QAM	1	24	24.80	24.76	24.49	25
5	16QAM	12	0	24.13	24.16	24.23	
5	16QAM	12	7	24.16	24.21	24.19	
5	16QAM	12	13	24.21	24.23	24.23	25
5	16QAM	25	0	24.19	24.24	24.21	
5	64QAM	1	0	24.11	24.29	24.38	
5	64QAM	1	12	24.10	24.15	24.30	25
5	64QAM	1	24	24.05	24.11	24.22	
5	64QAM	12	0	23.15	23.22	23.23	24
5	64QAM	12	7	23.20	23.14	23.17	
5	64QAM	12	13	23.12	23.14	23.18	
5	64QAM	25	0	23.26	23.21	23.25	22
5	256QAM	1	0	20.75	20.75	20.78	
5	256QAM	1	12	20.48	20.53	20.45	
5	256QAM	1	24	20.43	20.58	20.47	22
5	256QAM	12	0	20.73	20.86	20.77	
5	256QAM	12	7	20.81	20.87	20.71	
5	256QAM	12	13	20.83	20.79	20.66	22
5	256QAM	25	0	20.55	20.59	20.54	



FCC SAR TEST REPORT

Report No. :FA451606B

<LTE Band 38_HPUE_Ant 0_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	26.10	26.12	26.11	27
20	QPSK	1	49	26.09	26.11	26.10	
20	QPSK	1	99	25.99	25.98	25.99	
20	QPSK	50	0	25.15	25.16	25.15	26
20	QPSK	50	24	25.13	25.12	25.14	
20	QPSK	50	50	25.14	25.12	25.13	
20	QPSK	100	0	25.12	25.14	25.13	26
20	16QAM	1	0	25.60	25.20	25.45	
20	16QAM	1	49	25.66	25.24	25.64	
20	16QAM	1	99	25.43	25.24	25.42	25
20	16QAM	50	0	24.13	24.09	24.10	
20	16QAM	50	24	24.13	24.07	24.13	
20	16QAM	50	50	24.16	24.09	24.12	25
20	16QAM	100	0	24.13	24.08	24.11	
20	64QAM	1	0	24.13	24.11	24.10	
20	64QAM	1	49	24.15	24.22	24.24	25
20	64QAM	1	99	24.12	24.20	24.23	
20	64QAM	50	0	23.14	23.05	23.08	
20	64QAM	50	24	23.08	23.08	23.12	24
20	64QAM	50	50	23.09	23.14	23.14	
20	64QAM	100	0	23.14	23.11	23.14	
20	256QAM	1	0	20.89	20.95	20.89	22
20	256QAM	1	49	20.66	20.67	20.59	
20	256QAM	1	99	20.69	20.75	20.65	
20	256QAM	50	0	20.94	21.00	20.90	22
20	256QAM	50	24	20.96	20.97	20.92	
20	256QAM	50	50	20.92	20.92	20.82	
20	256QAM	100	0	20.75	20.84	20.82	22
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	26.04	26.04	26.06	27
15	QPSK	1	37	25.87	25.84	25.85	
15	QPSK	1	74	26.07	26.02	26.06	
15	QPSK	36	0	25.10	25.08	25.13	26
15	QPSK	36	20	25.09	25.09	25.13	
15	QPSK	36	39	25.10	25.10	25.13	
15	QPSK	75	0	25.08	25.08	25.13	26
15	16QAM	1	0	25.30	25.52	25.41	
15	16QAM	1	37	25.42	25.02	24.91	
15	16QAM	1	74	25.46	25.20	25.22	25
15	16QAM	36	0	24.10	24.03	24.09	
15	16QAM	36	20	24.09	24.07	24.09	
15	16QAM	36	39	24.13	24.03	24.11	25
15	16QAM	75	0	24.14	24.07	24.14	
15	64QAM	1	0	24.11	24.20	24.28	
15	64QAM	1	37	23.82	24.05	23.99	25
15	64QAM	1	74	24.13	24.29	24.33	
15	64QAM	36	0	23.08	23.06	23.11	
15	64QAM	36	20	23.10	23.07	23.12	24
15	64QAM	36	39	23.10	23.10	23.13	
15	64QAM	75	0	23.12	23.09	23.14	
15	256QAM	1	0	20.87	20.88	20.88	22
15	256QAM	1	37	20.61	20.67	20.55	
15	256QAM	1	74	20.62	20.66	20.64	
15	256QAM	36	0	20.91	20.99	20.87	22
15	256QAM	36	20	20.93	20.93	20.85	
15	256QAM	36	39	20.88	20.91	20.73	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	20.73	20.80	20.75	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	26.10	26.10	26.10	27
10	QPSK	1	25	26.06	26.08	26.10	
10	QPSK	1	49	26.10	26.10	26.10	
10	QPSK	25	0	25.10	25.12	25.15	26
10	QPSK	25	12	25.15	25.13	25.14	
10	QPSK	25	25	25.14	25.12	25.15	
10	QPSK	50	0	25.16	25.18	25.19	
10	16QAM	1	0	25.32	25.17	25.27	26
10	16QAM	1	25	25.18	25.15	25.18	
10	16QAM	1	49	25.16	25.14	25.16	
10	16QAM	25	0	24.22	24.22	24.27	25
10	16QAM	25	12	24.21	24.26	24.23	
10	16QAM	25	25	24.24	24.19	24.24	
10	16QAM	50	0	24.16	24.12	24.20	
10	64QAM	1	0	24.52	24.44	24.54	25
10	64QAM	1	25	24.41	24.34	24.41	
10	64QAM	1	49	24.44	24.22	24.44	
10	64QAM	25	0	23.21	23.19	23.22	24
10	64QAM	25	12	23.19	23.19	23.24	
10	64QAM	25	25	23.20	23.21	23.22	
10	64QAM	50	0	23.15	23.15	23.21	
10	256QAM	1	0	20.81	20.91	20.85	22
10	256QAM	1	25	20.62	20.67	20.54	
10	256QAM	1	49	20.65	20.66	20.61	
10	256QAM	25	0	20.86	20.91	20.81	22
10	256QAM	25	12	20.89	20.93	20.91	
10	256QAM	25	25	20.89	20.84	20.79	
10	256QAM	50	0	20.71	20.78	20.81	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	26.10	26.10	26.02	27
5	QPSK	1	12	26.05	26.05	26.01	
5	QPSK	1	24	26.05	26.10	26.09	
5	QPSK	12	0	25.15	25.13	25.21	26
5	QPSK	12	7	25.20	25.11	25.21	
5	QPSK	12	13	25.18	25.13	25.21	
5	QPSK	25	0	25.18	25.13	25.22	
5	16QAM	1	0	25.54	25.38	25.57	26
5	16QAM	1	12	25.34	25.29	25.35	
5	16QAM	1	24	25.63	25.62	25.63	
5	16QAM	12	0	24.23	24.22	24.27	25
5	16QAM	12	7	24.22	24.24	24.23	
5	16QAM	12	13	24.25	24.22	24.26	
5	16QAM	25	0	24.22	24.19	24.26	
5	64QAM	1	0	24.31	24.33	24.33	25
5	64QAM	1	12	24.11	23.90	24.06	
5	64QAM	1	24	24.44	24.23	24.44	
5	64QAM	12	0	23.22	23.13	23.27	24
5	64QAM	12	7	23.31	23.19	23.30	
5	64QAM	12	13	23.27	23.19	23.30	
5	64QAM	25	0	23.17	23.15	23.18	
5	256QAM	1	0	20.86	20.85	20.89	22
5	256QAM	1	12	20.59	20.67	20.56	
5	256QAM	1	24	20.59	20.65	20.58	
5	256QAM	12	0	20.84	20.90	20.81	22
5	256QAM	12	7	20.95	20.90	20.92	
5	256QAM	12	13	20.89	20.87	20.81	
5	256QAM	25	0	20.73	20.76	20.73	



<LTE Band 38_HPUE_Ant 0_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.37	24.46	24.45	25.2
20	QPSK	1	49	24.38	24.41	24.44	
20	QPSK	1	99	24.36	24.38	24.43	
20	QPSK	50	0	24.46	24.49	24.48	25.2
20	QPSK	50	24	24.41	24.45	24.48	
20	QPSK	50	50	24.42	24.44	24.48	
20	QPSK	100	0	24.42	24.47	24.46	25.2
20	16QAM	1	0	24.80	24.84	24.83	
20	16QAM	1	49	24.59	24.62	24.42	
20	16QAM	1	99	24.81	24.81	24.54	25
20	16QAM	50	0	24.25	24.24	24.30	
20	16QAM	50	24	24.23	24.26	24.29	
20	16QAM	50	50	24.24	24.24	24.29	25
20	16QAM	100	0	24.25	24.26	24.29	
20	64QAM	1	0	24.23	24.38	24.46	
20	64QAM	1	49	24.17	24.17	24.35	24
20	64QAM	1	99	24.16	24.15	24.27	
20	64QAM	50	0	23.25	23.27	23.29	
20	64QAM	50	24	23.26	23.24	23.28	22
20	64QAM	50	50	23.22	23.23	23.28	
20	64QAM	100	0	23.29	23.25	23.29	
20	256QAM	1	0	20.82	20.78	20.83	22
20	256QAM	1	49	20.58	20.58	20.52	
20	256QAM	1	99	20.52	20.64	20.56	
20	256QAM	50	0	20.82	20.95	20.85	22
20	256QAM	50	24	20.92	20.92	20.83	
20	256QAM	50	50	20.85	20.87	20.68	
20	256QAM	100	0	20.67	20.70	20.65	Tune-up limit (dBm)
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.34	24.39	24.44	25.2
15	QPSK	1	37	24.31	24.40	24.34	
15	QPSK	1	74	24.25	24.26	24.31	
15	QPSK	36	0	24.39	24.42	24.42	25.2
15	QPSK	36	20	24.38	24.36	24.46	
15	QPSK	36	39	24.34	24.34	24.42	
15	QPSK	75	0	24.40	24.46	24.40	25.2
15	16QAM	1	0	24.78	24.81	24.78	
15	16QAM	1	37	24.49	24.61	24.32	
15	16QAM	1	74	24.74	24.69	24.51	25
15	16QAM	36	0	24.16	24.13	24.28	
15	16QAM	36	20	24.15	24.24	24.22	
15	16QAM	36	39	24.17	24.20	24.24	25
15	16QAM	75	0	24.21	24.17	24.26	
15	64QAM	1	0	24.16	24.36	24.42	
15	64QAM	1	37	24.11	24.14	24.25	24
15	64QAM	1	74	24.07	24.03	24.18	
15	64QAM	36	0	23.23	23.26	23.23	
15	64QAM	36	20	23.17	23.21	23.20	22
15	64QAM	36	39	23.11	23.18	23.24	
15	64QAM	75	0	23.19	23.21	23.28	
15	256QAM	1	0	20.77	20.77	20.72	22
15	256QAM	1	37	20.51	20.48	20.48	
15	256QAM	1	74	20.49	20.61	20.54	
15	256QAM	36	0	20.70	20.93	20.78	22
15	256QAM	36	20	20.80	20.86	20.82	
15	256QAM	36	39	20.80	20.77	20.65	



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15	256QAM	75	0	20.61	20.59	20.63	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.35	24.36	24.41	25.2
10	QPSK	1	25	24.29	24.40	24.40	
10	QPSK	1	49	24.25	24.32	24.34	
10	QPSK	25	0	24.34	24.37	24.37	25.2
10	QPSK	25	12	24.37	24.42	24.40	
10	QPSK	25	25	24.41	24.37	24.46	
10	QPSK	50	0	24.36	24.46	24.37	25.2
10	16QAM	1	0	24.68	24.76	24.81	
10	16QAM	1	25	24.52	24.58	24.37	
10	16QAM	1	49	24.72	24.73	24.44	25
10	16QAM	25	0	24.16	24.15	24.19	
10	16QAM	25	12	24.22	24.25	24.27	
10	16QAM	25	25	24.20	24.20	24.18	25
10	16QAM	50	0	24.22	24.18	24.26	
10	64QAM	1	0	24.11	24.30	24.38	
10	64QAM	1	25	24.05	24.10	24.27	25
10	64QAM	1	49	24.13	24.12	24.25	
10	64QAM	25	0	23.14	23.25	23.23	24
10	64QAM	25	12	23.20	23.14	23.27	
10	64QAM	25	25	23.15	23.17	23.20	
10	64QAM	50	0	23.17	23.17	23.19	22
10	256QAM	1	0	20.80	20.75	20.81	
10	256QAM	1	25	20.46	20.49	20.45	
10	256QAM	1	49	20.41	20.62	20.47	22
10	256QAM	25	0	20.77	20.90	20.82	
10	256QAM	25	12	20.81	20.81	20.71	
10	256QAM	25	25	20.82	20.86	20.65	22
10	256QAM	50	0	20.64	20.60	20.63	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.29	24.40	24.40	25.2
5	QPSK	1	12	24.37	24.29	24.40	
5	QPSK	1	24	24.32	24.37	24.34	
5	QPSK	12	0	24.44	24.42	24.40	25.2
5	QPSK	12	7	24.32	24.39	24.39	
5	QPSK	12	13	24.41	24.33	24.46	
5	QPSK	25	0	24.38	24.37	24.39	25.2
5	16QAM	1	0	24.79	24.73	24.78	
5	16QAM	1	12	24.53	24.53	24.30	
5	16QAM	1	24	24.80	24.76	24.49	25
5	16QAM	12	0	24.13	24.16	24.23	
5	16QAM	12	7	24.16	24.21	24.19	
5	16QAM	12	13	24.21	24.23	24.23	25
5	16QAM	25	0	24.19	24.24	24.21	
5	64QAM	1	0	24.11	24.29	24.38	
5	64QAM	1	12	24.10	24.15	24.30	25
5	64QAM	1	24	24.05	24.11	24.22	
5	64QAM	12	0	23.15	23.22	23.23	24
5	64QAM	12	7	23.20	23.14	23.17	
5	64QAM	12	13	23.12	23.14	23.18	
5	64QAM	25	0	23.26	23.21	23.25	22
5	256QAM	1	0	20.75	20.75	20.78	
5	256QAM	1	12	20.48	20.53	20.45	
5	256QAM	1	24	20.43	20.58	20.47	22
5	256QAM	12	0	20.73	20.86	20.77	
5	256QAM	12	7	20.81	20.87	20.71	
5	256QAM	12	13	20.83	20.79	20.66	22
5	256QAM	25	0	20.55	20.59	20.54	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.48	24.52	24.56	24.52	24.55	25.2
20	QPSK	1	49	24.42	24.47	24.31	24.44	24.36	
20	QPSK	1	99	24.36	24.45	24.34	24.42	24.34	
20	QPSK	50	0	23.48	23.52	23.54	23.51	23.53	24.2
20	QPSK	50	24	23.47	23.50	23.36	23.48	23.49	
20	QPSK	50	50	23.43	23.49	23.36	23.51	23.42	
20	QPSK	100	0	23.47	23.50	23.52	23.51	23.47	24.2
20	16QAM	1	0	23.53	23.62	23.46	23.62	23.55	
20	16QAM	1	49	23.49	23.53	23.40	23.52	23.38	
20	16QAM	1	99	23.46	23.55	23.45	23.50	23.34	23.2
20	16QAM	50	0	22.46	22.50	22.34	22.48	22.49	
20	16QAM	50	24	22.45	22.49	22.37	22.49	22.46	
20	16QAM	50	50	22.44	22.50	22.38	22.49	22.42	23.2
20	16QAM	100	0	22.49	22.53	22.38	22.53	22.48	
20	64QAM	1	0	22.22	22.23	22.01	22.10	22.30	
20	64QAM	1	49	22.19	22.17	21.99	22.06	22.14	22.2
20	64QAM	1	99	22.16	22.17	22.06	22.06	22.04	
20	64QAM	50	0	21.51	21.53	21.36	21.55	21.49	
20	64QAM	50	24	21.49	21.55	21.42	21.54	21.49	20.2
20	64QAM	50	50	21.44	21.53	21.39	21.53	21.45	
20	64QAM	100	0	21.46	21.51	21.38	21.53	21.47	
20	256QAM	1	0	19.20	19.17	19.24	19.18	19.14	20.2
20	256QAM	1	49	18.93	18.96	19.00	18.96	18.90	
20	256QAM	1	99	18.95	18.89	18.98	18.98	18.89	
20	256QAM	50	0	19.05	19.12	19.14	19.12	19.07	20.2
20	256QAM	50	24	19.03	19.03	19.09	19.09	19.08	
20	256QAM	50	50	19.03	18.95	19.03	18.98	18.93	
20	256QAM	100	0	19.08	19.02	19.09	19.02	19.02	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.45	24.51	24.32	24.48	24.44	25.20
15	QPSK	1	37	24.23	24.35	24.08	24.31	24.35	
15	QPSK	1	74	24.37	24.47	24.28	24.44	24.26	
15	QPSK	36	0	23.48	23.49	23.34	23.52	23.44	24.2
15	QPSK	36	20	23.47	23.48	23.35	23.50	23.39	
15	QPSK	36	39	23.46	23.49	23.33	23.49	23.38	
15	QPSK	75	0	23.51	23.49	23.35	23.51	23.45	24.2
15	16QAM	1	0	23.57	23.66	23.38	23.54	23.51	
15	16QAM	1	37	23.56	23.72	23.44	23.46	23.39	
15	16QAM	1	74	23.50	23.65	23.40	23.49	23.39	23.2
15	16QAM	36	0	22.41	22.42	22.32	22.46	22.39	
15	16QAM	36	20	22.39	22.39	22.32	22.45	22.38	
15	16QAM	36	39	22.40	22.43	22.36	22.44	22.36	23.2
15	16QAM	75	0	22.49	22.51	22.39	22.54	22.45	
15	64QAM	1	0	22.44	22.45	22.20	22.40	22.19	
15	64QAM	1	37	22.34	22.47	22.27	22.45	22.17	23.2
15	64QAM	1	74	22.34	22.42	22.15	22.34	22.03	
15	64QAM	36	0	21.48	21.49	21.35	21.50	21.43	
15	64QAM	36	20	21.46	21.47	21.36	21.49	21.42	22.2
15	64QAM	36	39	21.44	21.48	21.36	21.50	21.40	
15	64QAM	75	0	21.46	21.48	21.33	21.48	21.43	
15	256QAM	1	0	19.20	19.17	19.21	19.14	19.06	20.2
15	256QAM	1	37	18.90	18.89	18.93	18.93	18.83	
15	256QAM	1	74	18.87	18.88	18.89	18.98	18.80	
15	256QAM	36	0	19.04	19.06	19.04	19.08	19.05	20.2
15	256QAM	36	20	18.94	18.93	19.04	19.03	19.04	
15	256QAM	36	39	19.03	18.89	18.93	18.96	18.89	



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15	256QAM	75	0	18.98	19.00	19.00	18.95	18.98	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.46	24.46	24.30	24.49	24.39	25.20
10	QPSK	1	25	24.36	24.36	24.19	24.36	24.32	
10	QPSK	1	49	24.40	24.45	24.30	24.43	24.32	
10	QPSK	25	0	23.46	23.49	23.34	23.51	23.44	24.2
10	QPSK	25	12	23.45	23.48	23.31	23.54	23.40	
10	QPSK	25	25	23.45	23.48	23.36	23.51	23.41	
10	QPSK	50	0	23.43	23.48	23.34	23.51	23.43	
10	16QAM	1	0	23.50	23.60	23.35	23.51	23.44	24.2
10	16QAM	1	25	23.43	23.52	23.34	23.52	23.37	
10	16QAM	1	49	23.46	23.51	23.34	23.52	23.33	
10	16QAM	25	0	22.49	22.52	22.35	22.55	22.47	23.2
10	16QAM	25	12	22.50	22.53	22.36	22.55	22.47	
10	16QAM	25	25	22.49	22.57	22.39	22.57	22.44	
10	16QAM	50	0	22.44	22.48	22.36	22.49	22.43	
10	64QAM	1	0	22.39	22.27	22.15	22.27	22.25	23.2
10	64QAM	1	25	22.36	22.21	22.14	22.12	22.12	
10	64QAM	1	49	22.38	22.27	22.25	22.23	22.11	
10	64QAM	25	0	21.50	21.49	21.36	21.52	21.45	22.2
10	64QAM	25	12	21.49	21.52	21.32	21.54	21.46	
10	64QAM	25	25	21.47	21.51	21.36	21.52	21.41	
10	64QAM	50	0	21.47	21.52	21.35	21.49	21.45	
10	256QAM	1	0	19.13	19.15	19.22	19.16	19.08	20.2
10	256QAM	1	25	18.88	18.91	18.97	18.90	18.83	
10	256QAM	1	49	18.94	18.84	18.90	18.96	18.86	
10	256QAM	25	0	19.01	19.11	19.06	19.04	18.99	20.2
10	256QAM	25	12	18.96	18.96	19.06	19.06	18.99	
10	256QAM	25	25	18.93	18.90	18.98	18.97	18.91	
10	256QAM	50	0	19.04	19.01	19.01	19.01	18.95	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.38	24.42	24.28	24.42	24.34	25.20
5	QPSK	1	12	24.50	24.38	24.28	24.37	24.27	
5	QPSK	1	24	24.32	24.37	24.25	24.40	24.26	
5	QPSK	12	0	23.34	23.41	23.24	23.39	23.31	24.2
5	QPSK	12	7	23.32	23.41	23.25	23.42	23.30	
5	QPSK	12	13	23.35	23.42	23.25	23.39	23.28	
5	QPSK	25	0	23.38	23.42	23.27	23.47	23.36	
5	16QAM	1	0	23.43	23.48	23.36	23.42	23.40	24.2
5	16QAM	1	12	23.49	23.43	23.38	23.35	23.36	
5	16QAM	1	24	23.43	23.46	23.38	23.36	23.39	
5	16QAM	12	0	22.28	22.32	22.23	22.39	22.20	23.2
5	16QAM	12	7	22.32	22.39	22.25	22.42	22.28	
5	16QAM	12	13	22.30	22.38	22.22	22.39	22.22	
5	16QAM	25	0	22.42	22.50	22.34	22.50	22.40	
5	64QAM	1	0	22.12	22.32	22.12	22.12	22.13	23.2
5	64QAM	1	12	22.03	22.32	22.13	22.04	22.08	
5	64QAM	1	24	22.13	22.27	22.13	22.08	22.07	
5	64QAM	12	0	21.34	21.42	21.25	21.38	21.28	22.2
5	64QAM	12	7	21.35	21.42	21.29	21.35	21.34	
5	64QAM	12	13	21.34	21.42	21.31	21.35	21.29	
5	64QAM	25	0	21.40	21.43	21.29	21.45	21.38	
5	256QAM	1	0	19.18	19.07	19.15	19.18	19.12	20.2
5	256QAM	1	12	18.84	18.91	18.95	18.91	18.80	
5	256QAM	1	24	18.85	18.81	18.88	18.92	18.85	
5	256QAM	12	0	19.05	19.11	19.11	19.11	19.07	20.2
5	256QAM	12	7	18.98	19.01	19.00	19.08	19.03	
5	256QAM	12	13	18.98	18.87	19.01	18.89	18.90	
5	256QAM	25	0	18.99	18.96	19.05	18.92	18.95	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.48	24.52	24.56	24.52	24.55	25.2
20	QPSK	1	49	24.42	24.47	24.31	24.44	24.36	
20	QPSK	1	99	24.36	24.45	24.34	24.42	24.34	
20	QPSK	50	0	23.48	23.52	23.54	23.51	23.53	24.2
20	QPSK	50	24	23.47	23.50	23.36	23.48	23.49	
20	QPSK	50	50	23.43	23.49	23.36	23.51	23.42	
20	QPSK	100	0	23.47	23.50	23.52	23.51	23.47	
20	16QAM	1	0	23.53	23.62	23.46	23.62	23.55	24.2
20	16QAM	1	49	23.49	23.53	23.40	23.52	23.38	
20	16QAM	1	99	23.46	23.55	23.45	23.50	23.34	
20	16QAM	50	0	22.46	22.50	22.34	22.48	22.49	23.2
20	16QAM	50	24	22.45	22.49	22.37	22.49	22.46	
20	16QAM	50	50	22.44	22.50	22.38	22.49	22.42	
20	16QAM	100	0	22.49	22.53	22.38	22.53	22.48	
20	64QAM	1	0	22.22	22.23	22.01	22.10	22.30	23.2
20	64QAM	1	49	22.19	22.17	21.99	22.06	22.14	
20	64QAM	1	99	22.16	22.17	22.06	22.06	22.04	
20	64QAM	50	0	21.51	21.53	21.36	21.55	21.49	22.2
20	64QAM	50	24	21.49	21.55	21.42	21.54	21.49	
20	64QAM	50	50	21.44	21.53	21.39	21.53	21.45	
20	64QAM	100	0	21.46	21.51	21.38	21.53	21.47	
20	256QAM	1	0	19.20	19.17	19.24	19.18	19.14	20.2
20	256QAM	1	49	18.93	18.96	19.00	18.96	18.90	
20	256QAM	1	99	18.95	18.89	18.98	18.98	18.89	
20	256QAM	50	0	19.05	19.12	19.14	19.12	19.07	20.2
20	256QAM	50	24	19.03	19.03	19.09	19.09	19.08	
20	256QAM	50	50	19.03	18.95	19.03	18.98	18.93	
20	256QAM	100	0	19.08	19.02	19.09	19.02	19.02	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.45	24.51	24.32	24.48	24.44	25.20
15	QPSK	1	37	24.23	24.35	24.08	24.31	24.35	
15	QPSK	1	74	24.37	24.47	24.28	24.44	24.26	
15	QPSK	36	0	23.48	23.49	23.34	23.52	23.44	24.2
15	QPSK	36	20	23.47	23.48	23.35	23.50	23.39	
15	QPSK	36	39	23.46	23.49	23.33	23.49	23.38	
15	QPSK	75	0	23.51	23.49	23.35	23.51	23.45	
15	16QAM	1	0	23.57	23.66	23.38	23.54	23.51	24.2
15	16QAM	1	37	23.56	23.72	23.44	23.46	23.39	
15	16QAM	1	74	23.50	23.65	23.40	23.49	23.39	
15	16QAM	36	0	22.41	22.42	22.32	22.46	22.39	23.2
15	16QAM	36	20	22.39	22.39	22.32	22.45	22.38	
15	16QAM	36	39	22.40	22.43	22.36	22.44	22.36	
15	16QAM	75	0	22.49	22.51	22.39	22.54	22.45	
15	64QAM	1	0	22.44	22.45	22.20	22.40	22.19	23.2
15	64QAM	1	37	22.34	22.47	22.27	22.45	22.17	
15	64QAM	1	74	22.34	22.42	22.15	22.34	22.03	
15	64QAM	36	0	21.48	21.49	21.35	21.50	21.43	22.2
15	64QAM	36	20	21.46	21.47	21.36	21.49	21.42	
15	64QAM	36	39	21.44	21.48	21.36	21.50	21.40	
15	64QAM	75	0	21.46	21.48	21.33	21.48	21.43	
15	256QAM	1	0	19.20	19.17	19.21	19.14	19.06	20.2
15	256QAM	1	37	18.90	18.89	18.93	18.93	18.83	
15	256QAM	1	74	18.87	18.88	18.89	18.98	18.80	
15	256QAM	36	0	19.04	19.06	19.04	19.08	19.05	20.2
15	256QAM	36	20	18.94	18.93	19.04	19.03	19.04	
15	256QAM	36	39	19.03	18.89	18.93	18.96	18.89	



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Report No. :FA451606B

15	256QAM	75	0	18.98	19.00	19.00	18.95	18.98	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.46	24.46	24.30	24.49	24.39	25.20
10	QPSK	1	25	24.36	24.36	24.19	24.36	24.32	
10	QPSK	1	49	24.40	24.45	24.30	24.43	24.32	
10	QPSK	25	0	23.46	23.49	23.34	23.51	23.44	24.2
10	QPSK	25	12	23.45	23.48	23.31	23.54	23.40	
10	QPSK	25	25	23.45	23.48	23.36	23.51	23.41	
10	QPSK	50	0	23.43	23.48	23.34	23.51	23.43	
10	16QAM	1	0	23.50	23.60	23.35	23.51	23.44	24.2
10	16QAM	1	25	23.43	23.52	23.34	23.52	23.37	
10	16QAM	1	49	23.46	23.51	23.34	23.52	23.33	
10	16QAM	25	0	22.49	22.52	22.35	22.55	22.47	23.2
10	16QAM	25	12	22.50	22.53	22.36	22.55	22.47	
10	16QAM	25	25	22.49	22.57	22.39	22.57	22.44	
10	16QAM	50	0	22.44	22.48	22.36	22.49	22.43	
10	64QAM	1	0	22.39	22.27	22.15	22.27	22.25	23.2
10	64QAM	1	25	22.36	22.21	22.14	22.12	22.12	
10	64QAM	1	49	22.38	22.27	22.25	22.23	22.11	
10	64QAM	25	0	21.50	21.49	21.36	21.52	21.45	22.2
10	64QAM	25	12	21.49	21.52	21.32	21.54	21.46	
10	64QAM	25	25	21.47	21.51	21.36	21.52	21.41	
10	64QAM	50	0	21.47	21.52	21.35	21.49	21.45	
10	256QAM	1	0	19.13	19.15	19.22	19.16	19.08	20.2
10	256QAM	1	25	18.88	18.91	18.97	18.90	18.83	
10	256QAM	1	49	18.94	18.84	18.90	18.96	18.86	
10	256QAM	25	0	19.01	19.11	19.06	19.04	18.99	20.2
10	256QAM	25	12	18.96	18.96	19.06	19.06	18.99	
10	256QAM	25	25	18.93	18.90	18.98	18.97	18.91	
10	256QAM	50	0	19.04	19.01	19.01	19.01	18.95	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.38	24.42	24.28	24.42	24.34	25.20
5	QPSK	1	12	24.50	24.38	24.28	24.37	24.27	
5	QPSK	1	24	24.32	24.37	24.25	24.40	24.26	
5	QPSK	12	0	23.34	23.41	23.24	23.39	23.31	24.2
5	QPSK	12	7	23.32	23.41	23.25	23.42	23.30	
5	QPSK	12	13	23.35	23.42	23.25	23.39	23.28	
5	QPSK	25	0	23.38	23.42	23.27	23.47	23.36	
5	16QAM	1	0	23.43	23.48	23.36	23.42	23.40	24.2
5	16QAM	1	12	23.49	23.43	23.38	23.35	23.36	
5	16QAM	1	24	23.43	23.46	23.38	23.36	23.39	
5	16QAM	12	0	22.28	22.32	22.23	22.39	22.20	23.2
5	16QAM	12	7	22.32	22.39	22.25	22.42	22.28	
5	16QAM	12	13	22.30	22.38	22.22	22.39	22.22	
5	16QAM	25	0	22.42	22.50	22.34	22.50	22.40	
5	64QAM	1	0	22.12	22.32	22.12	22.12	22.13	23.2
5	64QAM	1	12	22.03	22.32	22.13	22.04	22.08	
5	64QAM	1	24	22.13	22.27	22.13	22.08	22.07	
5	64QAM	12	0	21.34	21.42	21.25	21.38	21.28	22.2
5	64QAM	12	7	21.35	21.42	21.29	21.35	21.34	
5	64QAM	12	13	21.34	21.42	21.31	21.35	21.29	
5	64QAM	25	0	21.40	21.43	21.29	21.45	21.38	
5	256QAM	1	0	19.18	19.07	19.15	19.18	19.12	20.2
5	256QAM	1	12	18.84	18.91	18.95	18.91	18.80	
5	256QAM	1	24	18.85	18.81	18.88	18.92	18.85	
5	256QAM	12	0	19.05	19.11	19.11	19.11	19.07	20.2
5	256QAM	12	7	18.98	19.01	19.00	19.08	19.03	
5	256QAM	12	13	18.98	18.87	19.01	18.89	18.90	
5	256QAM	25	0	18.99	18.96	19.05	18.92	18.95	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.48	22.58	22.43	22.63	22.62	23.6
20	QPSK	1	49	22.31	22.41	22.33	22.49	22.46	
20	QPSK	1	99	22.35	22.46	22.37	22.54	22.43	
20	QPSK	50	0	22.44	22.56	22.43	22.61	22.60	23.6
20	QPSK	50	24	22.41	22.51	22.39	22.60	22.56	
20	QPSK	50	50	22.38	22.50	22.40	22.57	22.50	
20	QPSK	100	0	22.43	22.53	22.41	22.61	22.57	23.6
20	16QAM	1	0	22.47	22.66	22.45	22.73	22.67	
20	16QAM	1	49	22.31	22.49	22.28	22.58	22.42	
20	16QAM	1	99	22.36	22.54	22.39	22.60	22.41	23.6
20	16QAM	50	0	22.41	22.54	22.41	22.61	22.58	
20	16QAM	50	24	22.38	22.51	22.39	22.59	22.51	
20	16QAM	50	50	22.35	22.50	22.39	22.56	22.47	23.6
20	16QAM	100	0	22.41	22.54	22.42	22.60	22.56	
20	64QAM	1	0	22.18	22.44	22.19	22.30	22.38	
20	64QAM	1	49	22.10	22.33	22.10	22.31	22.23	23.6
20	64QAM	1	99	22.11	22.28	22.15	22.42	22.22	
20	64QAM	50	0	21.42	21.54	21.43	21.61	21.59	
20	64QAM	50	24	21.40	21.52	21.40	21.60	21.54	22.2
20	64QAM	50	50	21.39	21.48	21.40	21.55	21.50	
20	64QAM	100	0	21.45	21.50	21.41	21.56	21.56	
20	256QAM	1	0	18.82	18.78	18.85	18.77	18.71	20.2
20	256QAM	1	49	18.53	18.67	18.59	18.53	18.55	
20	256QAM	1	99	18.50	18.51	18.58	18.59	18.49	
20	256QAM	50	0	18.69	18.73	18.80	18.75	18.71	20.2
20	256QAM	50	24	18.70	18.62	18.73	18.68	18.66	
20	256QAM	50	50	18.62	18.53	18.74	18.54	18.57	
20	256QAM	100	0	18.63	18.61	18.75	18.62	18.57	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.46	22.54	22.33	22.54	22.52	23.60
15	QPSK	1	37	22.26	22.28	22.22	22.42	22.31	
15	QPSK	1	74	22.20	22.40	22.30	22.48	22.37	
15	QPSK	36	0	22.36	22.49	22.33	22.58	22.56	23.6
15	QPSK	36	20	22.39	22.36	22.30	22.54	22.54	
15	QPSK	36	39	22.25	22.48	22.36	22.50	22.38	
15	QPSK	75	0	22.31	22.45	22.31	22.57	22.48	23.6
15	16QAM	1	0	22.40	22.60	22.40	22.64	22.54	
15	16QAM	1	37	22.26	22.40	22.24	22.55	22.30	
15	16QAM	1	74	22.28	22.43	22.33	22.58	22.28	23.6
15	16QAM	36	0	22.36	22.40	22.33	22.53	22.43	
15	16QAM	36	20	22.36	22.38	22.26	22.48	22.43	
15	16QAM	36	39	22.28	22.38	22.24	22.47	22.44	23.6
15	16QAM	75	0	22.34	22.46	22.30	22.56	22.51	
15	64QAM	1	0	22.05	22.42	22.11	22.18	22.33	
15	64QAM	1	37	22.02	22.18	21.99	22.27	22.12	23.6
15	64QAM	1	74	22.03	22.21	22.09	22.27	22.20	
15	64QAM	36	0	21.31	21.49	21.33	21.54	21.48	
15	64QAM	36	20	21.37	21.38	21.38	21.50	21.39	22.2
15	64QAM	36	39	21.24	21.39	21.30	21.45	21.48	
15	64QAM	75	0	21.30	21.43	21.38	21.42	21.42	
15	256QAM	1	0	18.78	18.66	18.80	18.73	18.67	20.2
15	256QAM	1	37	18.45	18.53	18.50	18.51	18.43	
15	256QAM	1	74	18.39	18.44	18.47	18.55	18.39	
15	256QAM	36	0	18.54	18.65	18.71	18.71	18.65	20.2
15	256QAM	36	20	18.55	18.51	18.60	18.56	18.52	
15	256QAM	36	39	18.55	18.41	18.67	18.41	18.43	



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15	256QAM	75	0	18.53	18.50	18.62	18.51	18.48	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	22.36	22.47	22.40	22.48	22.60	23.60
10	QPSK	1	25	22.26	22.38	22.25	22.36	22.34	
10	QPSK	1	49	22.33	22.32	22.31	22.44	22.37	
10	QPSK	25	0	22.29	22.43	22.39	22.46	22.53	23.6
10	QPSK	25	12	22.37	22.43	22.24	22.53	22.48	
10	QPSK	25	25	22.35	22.41	22.38	22.52	22.40	
10	QPSK	50	0	22.28	22.47	22.31	22.55	22.54	
10	16QAM	1	0	22.37	22.55	22.34	22.66	22.56	23.6
10	16QAM	1	25	22.26	22.43	22.22	22.47	22.28	
10	16QAM	1	49	22.23	22.49	22.37	22.55	22.27	
10	16QAM	25	0	22.31	22.49	22.34	22.51	22.46	23.6
10	16QAM	25	12	22.31	22.38	22.35	22.57	22.38	
10	16QAM	25	25	22.28	22.35	22.34	22.48	22.40	
10	16QAM	50	0	22.27	22.41	22.27	22.50	22.52	
10	64QAM	1	0	22.09	22.30	22.11	22.16	22.27	23.6
10	64QAM	1	25	22.03	22.30	22.08	22.18	22.09	
10	64QAM	1	49	21.98	22.22	22.01	22.38	22.17	
10	64QAM	25	0	21.36	21.39	21.41	21.49	21.46	22.2
10	64QAM	25	12	21.35	21.44	21.29	21.55	21.40	
10	64QAM	25	25	21.37	21.41	21.30	21.40	21.44	
10	64QAM	50	0	21.37	21.45	21.36	21.47	21.48	
10	256QAM	1	0	18.68	18.72	18.70	18.73	18.62	20.2
10	256QAM	1	25	18.46	18.65	18.47	18.42	18.43	
10	256QAM	1	49	18.46	18.36	18.48	18.55	18.39	
10	256QAM	25	0	18.56	18.59	18.71	18.64	18.65	20.2
10	256QAM	25	12	18.55	18.59	18.58	18.54	18.58	
10	256QAM	25	25	18.60	18.49	18.69	18.50	18.46	
10	256QAM	50	0	18.60	18.52	18.63	18.58	18.44	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	22.33	22.56	22.41	22.49	22.49	23.60
5	QPSK	1	12	22.20	22.31	22.31	22.46	22.31	
5	QPSK	1	24	22.32	22.38	22.34	22.41	22.31	
5	QPSK	12	0	22.40	22.50	22.33	22.55	22.51	23.6
5	QPSK	12	7	22.26	22.45	22.35	22.54	22.52	
5	QPSK	12	13	22.31	22.43	22.34	22.42	22.40	
5	QPSK	25	0	22.28	22.45	22.36	22.53	22.50	
5	16QAM	1	0	22.34	22.58	22.38	22.66	22.52	23.6
5	16QAM	1	12	22.20	22.42	22.15	22.49	22.31	
5	16QAM	1	24	22.21	22.50	22.26	22.56	22.26	
5	16QAM	12	0	22.29	22.42	22.39	22.50	22.56	23.6
5	16QAM	12	7	22.26	22.47	22.24	22.45	22.38	
5	16QAM	12	13	22.32	22.47	22.26	22.41	22.35	
5	16QAM	25	0	22.34	22.43	22.29	22.56	22.49	
5	64QAM	1	0	22.13	22.40	22.04	22.27	22.31	23.6
5	64QAM	1	12	22.08	22.25	21.99	22.29	22.18	
5	64QAM	1	24	21.99	22.22	22.02	22.31	22.16	
5	64QAM	12	0	21.27	21.50	21.33	21.52	21.51	22.2
5	64QAM	12	7	21.26	21.39	21.25	21.57	21.52	
5	64QAM	12	13	21.35	21.39	21.37	21.45	21.41	
5	64QAM	25	0	21.41	21.44	21.37	21.53	21.50	
5	256QAM	1	0	18.74	18.69	18.78	18.68	18.57	20.2
5	256QAM	1	12	18.43	18.54	18.57	18.43	18.53	
5	256QAM	1	24	18.45	18.46	18.49	18.44	18.40	
5	256QAM	12	0	18.64	18.64	18.70	18.60	18.66	20.2
5	256QAM	12	7	18.56	18.57	18.66	18.59	18.58	
5	256QAM	12	13	18.50	18.47	18.68	18.51	18.45	
5	256QAM	25	0	18.59	18.49	18.60	18.50	18.43	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.48	24.52	24.56	24.52	24.55	25.2
20	QPSK	1	49	24.42	24.47	24.31	24.44	24.36	
20	QPSK	1	99	24.36	24.45	24.34	24.42	24.34	
20	QPSK	50	0	23.48	23.52	23.54	23.51	23.53	24.2
20	QPSK	50	24	23.47	23.50	23.36	23.48	23.49	
20	QPSK	50	50	23.43	23.49	23.36	23.51	23.42	
20	QPSK	100	0	23.47	23.50	23.52	23.51	23.47	24.2
20	16QAM	1	0	23.53	23.62	23.46	23.62	23.55	
20	16QAM	1	49	23.49	23.53	23.40	23.52	23.38	
20	16QAM	1	99	23.46	23.55	23.45	23.50	23.34	23.2
20	16QAM	50	0	22.46	22.50	22.34	22.48	22.49	
20	16QAM	50	24	22.45	22.49	22.37	22.49	22.46	
20	16QAM	50	50	22.44	22.50	22.38	22.49	22.42	23.2
20	16QAM	100	0	22.49	22.53	22.38	22.53	22.48	
20	64QAM	1	0	22.22	22.23	22.01	22.10	22.30	
20	64QAM	1	49	22.19	22.17	21.99	22.06	22.14	22.2
20	64QAM	1	99	22.16	22.17	22.06	22.06	22.04	
20	64QAM	50	0	21.51	21.53	21.36	21.55	21.49	
20	64QAM	50	24	21.49	21.55	21.42	21.54	21.49	20.2
20	64QAM	50	50	21.44	21.53	21.39	21.53	21.45	
20	64QAM	100	0	21.46	21.51	21.38	21.53	21.47	
20	256QAM	1	0	19.20	19.17	19.24	19.18	19.14	20.2
20	256QAM	1	49	18.93	18.96	19.00	18.96	18.90	
20	256QAM	1	99	18.95	18.89	18.98	18.98	18.89	
20	256QAM	50	0	19.05	19.12	19.14	19.12	19.07	20.2
20	256QAM	50	24	19.03	19.03	19.09	19.09	19.08	
20	256QAM	50	50	19.03	18.95	19.03	18.98	18.93	
20	256QAM	100	0	19.08	19.02	19.09	19.02	19.02	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.45	24.51	24.32	24.48	24.44	25.20
15	QPSK	1	37	24.23	24.35	24.08	24.31	24.35	
15	QPSK	1	74	24.37	24.47	24.28	24.44	24.26	
15	QPSK	36	0	23.48	23.49	23.34	23.52	23.44	24.2
15	QPSK	36	20	23.47	23.48	23.35	23.50	23.39	
15	QPSK	36	39	23.46	23.49	23.33	23.49	23.38	
15	QPSK	75	0	23.51	23.49	23.35	23.51	23.45	24.2
15	16QAM	1	0	23.57	23.66	23.38	23.54	23.51	
15	16QAM	1	37	23.56	23.72	23.44	23.46	23.39	
15	16QAM	1	74	23.50	23.65	23.40	23.49	23.39	23.2
15	16QAM	36	0	22.41	22.42	22.32	22.46	22.39	
15	16QAM	36	20	22.39	22.39	22.32	22.45	22.38	
15	16QAM	36	39	22.40	22.43	22.36	22.44	22.36	23.2
15	16QAM	75	0	22.49	22.51	22.39	22.54	22.45	
15	64QAM	1	0	22.44	22.45	22.20	22.40	22.19	
15	64QAM	1	37	22.34	22.47	22.27	22.45	22.17	22.2
15	64QAM	1	74	22.34	22.42	22.15	22.34	22.03	
15	64QAM	36	0	21.48	21.49	21.35	21.50	21.43	
15	64QAM	36	20	21.46	21.47	21.36	21.49	21.42	20.2
15	64QAM	36	39	21.44	21.48	21.36	21.50	21.40	
15	64QAM	75	0	21.46	21.48	21.33	21.48	21.43	
15	256QAM	1	0	19.20	19.17	19.21	19.14	19.06	20.2
15	256QAM	1	37	18.90	18.89	18.93	18.93	18.83	
15	256QAM	1	74	18.87	18.88	18.89	18.98	18.80	
15	256QAM	36	0	19.04	19.06	19.04	19.08	19.05	20.2
15	256QAM	36	20	18.94	18.93	19.04	19.03	19.04	
15	256QAM	36	39	19.03	18.89	18.93	18.96	18.89	



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15	256QAM	75	0	18.98	19.00	19.00	18.95	18.98	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.46	24.46	24.30	24.49	24.39	25.20
10	QPSK	1	25	24.36	24.36	24.19	24.36	24.32	
10	QPSK	1	49	24.40	24.45	24.30	24.43	24.32	
10	QPSK	25	0	23.46	23.49	23.34	23.51	23.44	24.2
10	QPSK	25	12	23.45	23.48	23.31	23.54	23.40	
10	QPSK	25	25	23.45	23.48	23.36	23.51	23.41	
10	QPSK	50	0	23.43	23.48	23.34	23.51	23.43	24.2
10	16QAM	1	0	23.50	23.60	23.35	23.51	23.44	
10	16QAM	1	25	23.43	23.52	23.34	23.52	23.37	
10	16QAM	1	49	23.46	23.51	23.34	23.52	23.33	23.2
10	16QAM	25	0	22.49	22.52	22.35	22.55	22.47	
10	16QAM	25	12	22.50	22.53	22.36	22.55	22.47	
10	16QAM	25	25	22.49	22.57	22.39	22.57	22.44	23.2
10	16QAM	50	0	22.44	22.48	22.36	22.49	22.43	
10	64QAM	1	0	22.39	22.27	22.15	22.27	22.25	
10	64QAM	1	25	22.36	22.21	22.14	22.12	22.12	23.2
10	64QAM	1	49	22.38	22.27	22.25	22.23	22.11	
10	64QAM	25	0	21.50	21.49	21.36	21.52	21.45	
10	64QAM	25	12	21.49	21.52	21.32	21.54	21.46	22.2
10	64QAM	25	25	21.47	21.51	21.36	21.52	21.41	
10	64QAM	50	0	21.47	21.52	21.35	21.49	21.45	
10	256QAM	1	0	19.13	19.15	19.22	19.16	19.08	20.2
10	256QAM	1	25	18.88	18.91	18.97	18.90	18.83	
10	256QAM	1	49	18.94	18.84	18.90	18.96	18.86	
10	256QAM	25	0	19.01	19.11	19.06	19.04	18.99	20.2
10	256QAM	25	12	18.96	18.96	19.06	19.06	18.99	
10	256QAM	25	25	18.93	18.90	18.98	18.97	18.91	
10	256QAM	50	0	19.04	19.01	19.01	19.01	18.95	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.38	24.42	24.28	24.42	24.34	25.20
5	QPSK	1	12	24.50	24.38	24.28	24.37	24.27	
5	QPSK	1	24	24.32	24.37	24.25	24.40	24.26	
5	QPSK	12	0	23.34	23.41	23.24	23.39	23.31	24.2
5	QPSK	12	7	23.32	23.41	23.25	23.42	23.30	
5	QPSK	12	13	23.35	23.42	23.25	23.39	23.28	
5	QPSK	25	0	23.38	23.42	23.27	23.47	23.36	24.2
5	16QAM	1	0	23.43	23.48	23.36	23.42	23.40	
5	16QAM	1	12	23.49	23.43	23.38	23.35	23.36	
5	16QAM	1	24	23.43	23.46	23.38	23.36	23.39	23.2
5	16QAM	12	0	22.28	22.32	22.23	22.39	22.20	
5	16QAM	12	7	22.32	22.39	22.25	22.42	22.28	
5	16QAM	12	13	22.30	22.38	22.22	22.39	22.22	23.2
5	16QAM	25	0	22.42	22.50	22.34	22.50	22.40	
5	64QAM	1	0	22.12	22.32	22.12	22.12	22.13	
5	64QAM	1	12	22.03	22.32	22.13	22.04	22.08	22.2
5	64QAM	1	24	22.13	22.27	22.13	22.08	22.07	
5	64QAM	12	0	21.34	21.42	21.25	21.38	21.28	
5	64QAM	12	7	21.35	21.42	21.29	21.35	21.34	20.2
5	64QAM	12	13	21.34	21.42	21.31	21.35	21.29	
5	64QAM	25	0	21.40	21.43	21.29	21.45	21.38	
5	256QAM	1	0	19.18	19.07	19.15	19.18	19.12	20.2
5	256QAM	1	12	18.84	18.91	18.95	18.91	18.80	
5	256QAM	1	24	18.85	18.81	18.88	18.92	18.85	
5	256QAM	12	0	19.05	19.11	19.11	19.11	19.07	20.2
5	256QAM	12	7	18.98	19.01	19.00	19.08	19.03	
5	256QAM	12	13	18.98	18.87	19.01	18.89	18.90	
5	256QAM	25	0	18.99	18.96	19.05	18.92	18.95	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.48	22.58	22.43	22.63	22.62	23.6
20	QPSK	1	49	22.31	22.41	22.33	22.49	22.46	
20	QPSK	1	99	22.35	22.46	22.37	22.54	22.43	
20	QPSK	50	0	22.44	22.56	22.43	22.61	22.60	23.6
20	QPSK	50	24	22.41	22.51	22.39	22.60	22.56	
20	QPSK	50	50	22.38	22.50	22.40	22.57	22.50	
20	QPSK	100	0	22.43	22.53	22.41	22.61	22.57	23.6
20	16QAM	1	0	22.47	22.66	22.45	22.73	22.67	
20	16QAM	1	49	22.31	22.49	22.28	22.58	22.42	
20	16QAM	1	99	22.36	22.54	22.39	22.60	22.41	23.6
20	16QAM	50	0	22.41	22.54	22.41	22.61	22.58	
20	16QAM	50	24	22.38	22.51	22.39	22.59	22.51	
20	16QAM	50	50	22.35	22.50	22.39	22.56	22.47	23.6
20	16QAM	100	0	22.41	22.54	22.42	22.60	22.56	
20	64QAM	1	0	22.18	22.44	22.19	22.30	22.38	
20	64QAM	1	49	22.10	22.33	22.10	22.31	22.23	23.6
20	64QAM	1	99	22.11	22.28	22.15	22.42	22.22	
20	64QAM	50	0	21.42	21.54	21.43	21.61	21.59	
20	64QAM	50	24	21.40	21.52	21.40	21.60	21.54	22.2
20	64QAM	50	50	21.39	21.48	21.40	21.55	21.50	
20	64QAM	100	0	21.45	21.50	21.41	21.56	21.56	
20	256QAM	1	0	18.82	18.78	18.85	18.77	18.71	20.2
20	256QAM	1	49	18.53	18.67	18.59	18.53	18.55	
20	256QAM	1	99	18.50	18.51	18.58	18.59	18.49	
20	256QAM	50	0	18.69	18.73	18.80	18.75	18.71	20.2
20	256QAM	50	24	18.70	18.62	18.73	18.68	18.66	
20	256QAM	50	50	18.62	18.53	18.74	18.54	18.57	
20	256QAM	100	0	18.63	18.61	18.75	18.62	18.57	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.46	22.54	22.33	22.54	22.52	23.60
15	QPSK	1	37	22.26	22.28	22.22	22.42	22.31	
15	QPSK	1	74	22.20	22.40	22.30	22.48	22.37	
15	QPSK	36	0	22.36	22.49	22.33	22.58	22.56	23.6
15	QPSK	36	20	22.39	22.36	22.30	22.54	22.54	
15	QPSK	36	39	22.25	22.48	22.36	22.50	22.38	
15	QPSK	75	0	22.31	22.45	22.31	22.57	22.48	23.6
15	16QAM	1	0	22.40	22.60	22.40	22.64	22.54	
15	16QAM	1	37	22.26	22.40	22.24	22.55	22.30	
15	16QAM	1	74	22.28	22.43	22.33	22.58	22.28	23.6
15	16QAM	36	0	22.36	22.40	22.33	22.53	22.43	
15	16QAM	36	20	22.36	22.38	22.26	22.48	22.43	
15	16QAM	36	39	22.28	22.38	22.24	22.47	22.44	23.6
15	16QAM	75	0	22.34	22.46	22.30	22.56	22.51	
15	64QAM	1	0	22.05	22.42	22.11	22.18	22.33	
15	64QAM	1	37	22.02	22.18	21.99	22.27	22.12	23.6
15	64QAM	1	74	22.03	22.21	22.09	22.27	22.20	
15	64QAM	36	0	21.31	21.49	21.33	21.54	21.48	
15	64QAM	36	20	21.37	21.38	21.38	21.50	21.39	22.2
15	64QAM	36	39	21.24	21.39	21.30	21.45	21.48	
15	64QAM	75	0	21.30	21.43	21.38	21.42	21.42	
15	256QAM	1	0	18.78	18.66	18.80	18.73	18.67	20.2
15	256QAM	1	37	18.45	18.53	18.50	18.51	18.43	
15	256QAM	1	74	18.39	18.44	18.47	18.55	18.39	
15	256QAM	36	0	18.54	18.65	18.71	18.71	18.65	20.2
15	256QAM	36	20	18.55	18.51	18.60	18.56	18.52	
15	256QAM	36	39	18.55	18.41	18.67	18.41	18.43	



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15	256QAM	75	0	18.53	18.50	18.62	18.51	18.48	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	22.36	22.47	22.40	22.48	22.60	23.60
10	QPSK	1	25	22.26	22.38	22.25	22.36	22.34	
10	QPSK	1	49	22.33	22.32	22.31	22.44	22.37	
10	QPSK	25	0	22.29	22.43	22.39	22.46	22.53	23.6
10	QPSK	25	12	22.37	22.43	22.24	22.53	22.48	
10	QPSK	25	25	22.35	22.41	22.38	22.52	22.40	
10	QPSK	50	0	22.28	22.47	22.31	22.55	22.54	
10	16QAM	1	0	22.37	22.55	22.34	22.66	22.56	23.6
10	16QAM	1	25	22.26	22.43	22.22	22.47	22.28	
10	16QAM	1	49	22.23	22.49	22.37	22.55	22.27	
10	16QAM	25	0	22.31	22.49	22.34	22.51	22.46	23.6
10	16QAM	25	12	22.31	22.38	22.35	22.57	22.38	
10	16QAM	25	25	22.28	22.35	22.34	22.48	22.40	
10	16QAM	50	0	22.27	22.41	22.27	22.50	22.52	
10	64QAM	1	0	22.09	22.30	22.11	22.16	22.27	23.6
10	64QAM	1	25	22.03	22.30	22.08	22.18	22.09	
10	64QAM	1	49	21.98	22.22	22.01	22.38	22.17	
10	64QAM	25	0	21.36	21.39	21.41	21.49	21.46	22.2
10	64QAM	25	12	21.35	21.44	21.29	21.55	21.40	
10	64QAM	25	25	21.37	21.41	21.30	21.40	21.44	
10	64QAM	50	0	21.37	21.45	21.36	21.47	21.48	
10	256QAM	1	0	18.68	18.72	18.70	18.73	18.62	20.2
10	256QAM	1	25	18.46	18.65	18.47	18.42	18.43	
10	256QAM	1	49	18.46	18.36	18.48	18.55	18.39	
10	256QAM	25	0	18.56	18.59	18.71	18.64	18.65	20.2
10	256QAM	25	12	18.55	18.59	18.58	18.54	18.58	
10	256QAM	25	25	18.60	18.49	18.69	18.50	18.46	
10	256QAM	50	0	18.60	18.52	18.63	18.58	18.44	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	22.33	22.56	22.41	22.49	22.49	23.60
5	QPSK	1	12	22.20	22.31	22.31	22.46	22.31	
5	QPSK	1	24	22.32	22.38	22.34	22.41	22.31	
5	QPSK	12	0	22.40	22.50	22.33	22.55	22.51	23.6
5	QPSK	12	7	22.26	22.45	22.35	22.54	22.52	
5	QPSK	12	13	22.31	22.43	22.34	22.42	22.40	
5	QPSK	25	0	22.28	22.45	22.36	22.53	22.50	
5	16QAM	1	0	22.34	22.58	22.38	22.66	22.52	23.6
5	16QAM	1	12	22.20	22.42	22.15	22.49	22.31	
5	16QAM	1	24	22.21	22.50	22.26	22.56	22.26	
5	16QAM	12	0	22.29	22.42	22.39	22.50	22.56	23.6
5	16QAM	12	7	22.26	22.47	22.24	22.45	22.38	
5	16QAM	12	13	22.32	22.47	22.26	22.41	22.35	
5	16QAM	25	0	22.34	22.43	22.29	22.56	22.49	
5	64QAM	1	0	22.13	22.40	22.04	22.27	22.31	23.6
5	64QAM	1	12	22.08	22.25	21.99	22.29	22.18	
5	64QAM	1	24	21.99	22.22	22.02	22.31	22.16	
5	64QAM	12	0	21.27	21.50	21.33	21.52	21.51	22.2
5	64QAM	12	7	21.26	21.39	21.25	21.57	21.52	
5	64QAM	12	13	21.35	21.39	21.37	21.45	21.41	
5	64QAM	25	0	21.41	21.44	21.37	21.53	21.50	
5	256QAM	1	0	18.74	18.69	18.78	18.68	18.57	20.2
5	256QAM	1	12	18.43	18.54	18.57	18.43	18.53	
5	256QAM	1	24	18.45	18.46	18.49	18.44	18.40	
5	256QAM	12	0	18.64	18.64	18.70	18.60	18.66	20.2
5	256QAM	12	7	18.56	18.57	18.66	18.59	18.58	
5	256QAM	12	13	18.50	18.47	18.68	18.51	18.45	
5	256QAM	25	0	18.59	18.49	18.60	18.50	18.43	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.05	26.03	26.29	26.28	26.04	27
20	QPSK	1	49	26.14	26.17	26.05	26.21	26.10	
20	QPSK	1	99	26.00	26.04	25.96	26.02	25.91	
20	QPSK	50	0	25.26	25.23	25.28	25.27	25.14	26
20	QPSK	50	24	25.25	25.22	25.11	25.26	25.11	
20	QPSK	50	50	25.19	25.20	25.10	25.23	25.11	
20	QPSK	100	0	25.20	25.17	25.22	25.19	25.14	26
20	16QAM	1	0	25.51	25.47	25.43	25.56	25.50	
20	16QAM	1	49	25.22	25.64	25.24	25.61	25.19	
20	16QAM	1	99	25.17	25.52	25.19	25.44	25.08	25
20	16QAM	50	0	24.23	24.23	24.07	24.25	24.18	
20	16QAM	50	24	24.17	24.20	24.07	24.21	24.11	
20	16QAM	50	50	24.17	24.19	24.11	24.22	24.07	25
20	16QAM	100	0	24.18	24.16	24.12	24.19	24.12	
20	64QAM	1	0	24.31	24.31	24.24	24.18	24.21	
20	64QAM	1	49	24.32	24.53	24.25	24.49	24.18	25
20	64QAM	1	99	24.17	24.36	24.21	24.31	24.09	
20	64QAM	50	0	23.19	23.20	23.08	23.24	23.13	
20	64QAM	50	24	23.17	23.19	23.07	23.19	23.12	24
20	64QAM	50	50	23.15	23.17	23.08	23.19	23.06	
20	64QAM	100	0	23.18	23.19	23.09	23.21	23.16	
20	256QAM	1	0	20.98	21.01	21.07	20.97	21.03	22
20	256QAM	1	49	20.82	20.84	20.92	20.90	20.84	
20	256QAM	1	99	20.84	20.80	20.86	20.78	20.79	
20	256QAM	50	0	20.91	21.00	21.00	20.91	20.94	22
20	256QAM	50	24	20.86	20.92	20.94	20.92	20.89	
20	256QAM	50	50	20.82	20.92	20.92	20.91	20.82	
20	256QAM	100	0	20.87	20.78	20.87	20.84	20.82	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	26.11	26.12	26.01	26.17	26.09	27.00
15	QPSK	1	37	25.95	25.81	25.73	25.88	25.79	
15	QPSK	1	74	26.06	26.05	26.03	26.04	25.97	
15	QPSK	36	0	25.20	25.19	25.07	25.21	25.14	26
15	QPSK	36	20	25.17	25.15	25.07	25.19	25.13	
15	QPSK	36	39	25.17	25.15	25.08	25.18	25.08	
15	QPSK	75	0	25.17	25.14	25.04	25.17	25.09	26
15	16QAM	1	0	25.28	25.39	25.32	25.48	25.40	
15	16QAM	1	37	25.01	25.31	24.82	25.31	24.83	
15	16QAM	1	74	25.22	25.38	25.17	25.33	25.12	25
15	16QAM	36	0	24.13	24.12	24.06	24.14	24.09	
15	16QAM	36	20	24.15	24.09	24.06	24.13	24.07	
15	16QAM	36	39	24.15	24.12	24.09	24.14	24.05	25
15	16QAM	75	0	24.17	24.18	24.09	24.21	24.08	
15	64QAM	1	0	24.37	24.33	24.20	24.38	24.25	
15	64QAM	1	37	24.12	24.09	23.96	24.12	23.88	25
15	64QAM	1	74	24.31	24.36	24.29	24.32	24.18	
15	64QAM	36	0	23.15	23.18	23.05	23.22	23.08	
15	64QAM	36	20	23.15	23.17	23.07	23.19	23.09	24
15	64QAM	36	39	23.13	23.18	23.08	23.20	23.04	
15	64QAM	75	0	23.18	23.21	23.07	23.17	23.08	
15	256QAM	1	0	20.92	20.95	21.05	20.95	21.03	22
15	256QAM	1	37	20.78	20.74	20.82	20.80	20.76	
15	256QAM	1	74	20.81	20.71	20.76	20.72	20.75	
15	256QAM	36	0	20.88	21.00	20.90	20.88	20.88	22
15	256QAM	36	20	20.77	20.84	20.88	20.87	20.83	
15	256QAM	36	39	20.76	20.89	20.85	20.89	20.74	



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15	256QAM	75	0	20.80	20.70	20.82	20.84	20.79	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	26.19	26.00	26.11	26.20	26.20	27.00
10	QPSK	1	25	26.14	26.20	26.08	26.20	26.15	
10	QPSK	1	49	26.17	26.20	26.14	26.20	26.12	
10	QPSK	25	0	25.21	25.21	25.13	25.28	25.16	26
10	QPSK	25	12	25.21	25.18	25.12	25.23	25.13	
10	QPSK	25	25	25.19	25.20	25.15	25.26	25.11	
10	QPSK	50	0	25.26	25.22	25.17	25.35	25.22	
10	16QAM	1	0	25.44	25.41	25.30	25.46	25.35	26
10	16QAM	1	25	25.24	25.35	25.13	25.39	25.38	
10	16QAM	1	49	25.17	25.35	25.43	25.35	25.17	
10	16QAM	25	0	24.31	24.34	24.20	24.35	24.25	25
10	16QAM	25	12	24.27	24.31	24.18	24.32	24.24	
10	16QAM	25	25	24.25	24.36	24.19	24.31	24.22	
10	16QAM	50	0	24.21	24.27	24.13	24.33	24.22	
10	64QAM	1	0	24.47	24.55	24.38	24.57	24.38	25
10	64QAM	1	25	24.42	24.43	24.36	24.41	24.13	
10	64QAM	1	49	24.42	24.42	24.23	24.39	24.22	
10	64QAM	25	0	23.26	23.29	23.20	23.30	23.15	24
10	64QAM	25	12	23.26	23.28	23.20	23.22	23.18	
10	64QAM	25	25	23.26	23.27	23.22	23.28	23.15	
10	64QAM	50	0	23.28	23.26	23.19	23.33	23.19	
10	256QAM	1	0	20.94	20.97	21.06	20.90	20.93	22
10	256QAM	1	25	20.81	20.84	20.86	20.80	20.74	
10	256QAM	1	49	20.82	20.70	20.85	20.74	20.78	
10	256QAM	25	0	20.82	20.99	20.99	20.88	20.85	22
10	256QAM	25	12	20.84	20.90	20.87	20.84	20.84	
10	256QAM	25	25	20.73	20.84	20.87	20.86	20.82	
10	256QAM	50	0	20.87	20.77	20.78	20.82	20.77	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	26.20	26.13	26.14	26.19	26.17	27.00
5	QPSK	1	12	26.13	26.20	26.13	26.15	26.14	
5	QPSK	1	24	26.16	26.20	26.10	26.14	26.09	
5	QPSK	12	0	25.22	25.24	25.13	25.27	25.17	26
5	QPSK	12	7	25.21	25.19	25.14	25.27	25.17	
5	QPSK	12	13	25.21	25.23	25.13	25.26	25.15	
5	QPSK	25	0	25.23	25.26	25.12	25.27	25.14	
5	16QAM	1	0	25.58	25.53	25.57	25.55	25.54	26
5	16QAM	1	12	25.49	25.28	25.49	25.45	25.61	
5	16QAM	1	24	25.63	25.62	25.60	25.58	25.59	
5	16QAM	12	0	24.30	24.37	24.22	24.37	24.24	25
5	16QAM	12	7	24.30	24.35	24.24	24.41	24.25	
5	16QAM	12	13	24.28	24.38	24.27	24.41	24.21	
5	16QAM	25	0	24.29	24.33	24.22	24.34	24.17	
5	64QAM	1	0	24.30	24.40	24.32	24.44	24.15	25
5	64QAM	1	12	23.91	24.38	23.86	24.49	23.95	
5	64QAM	1	24	24.29	24.72	24.23	24.69	24.19	
5	64QAM	12	0	23.22	23.39	23.15	23.37	23.11	24
5	64QAM	12	7	23.25	23.32	23.15	23.33	23.16	
5	64QAM	12	13	23.27	23.29	23.20	23.29	23.14	
5	64QAM	25	0	23.23	23.31	23.20	23.31	23.14	
5	256QAM	1	0	20.89	21.00	21.04	20.94	21.01	22
5	256QAM	1	12	20.77	20.84	20.84	20.90	20.82	
5	256QAM	1	24	20.82	20.76	20.85	20.72	20.78	
5	256QAM	12	0	20.82	20.93	20.91	20.88	20.93	22
5	256QAM	12	7	20.76	20.91	20.87	20.83	20.89	
5	256QAM	12	13	20.75	20.87	20.86	20.82	20.79	
5	256QAM	25	0	20.77	20.75	20.84	20.80	20.73	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.05	26.03	26.29	26.28	26.04	27
20	QPSK	1	49	26.14	26.17	26.05	26.21	26.10	
20	QPSK	1	99	26.00	26.04	25.96	26.02	25.91	
20	QPSK	50	0	25.26	25.23	25.28	25.27	25.14	26
20	QPSK	50	24	25.25	25.22	25.11	25.26	25.11	
20	QPSK	50	50	25.19	25.20	25.10	25.23	25.11	
20	QPSK	100	0	25.20	25.17	25.22	25.19	25.14	26
20	16QAM	1	0	25.51	25.47	25.43	25.56	25.50	
20	16QAM	1	49	25.22	25.64	25.24	25.61	25.19	
20	16QAM	1	99	25.17	25.52	25.19	25.44	25.08	25
20	16QAM	50	0	24.23	24.23	24.07	24.25	24.18	
20	16QAM	50	24	24.17	24.20	24.07	24.21	24.11	
20	16QAM	50	50	24.17	24.19	24.11	24.22	24.07	25
20	16QAM	100	0	24.18	24.16	24.12	24.19	24.12	
20	64QAM	1	0	24.31	24.31	24.24	24.18	24.21	
20	64QAM	1	49	24.32	24.53	24.25	24.49	24.18	25
20	64QAM	1	99	24.17	24.36	24.21	24.31	24.09	
20	64QAM	50	0	23.19	23.20	23.08	23.24	23.13	
20	64QAM	50	24	23.17	23.19	23.07	23.19	23.12	24
20	64QAM	50	50	23.15	23.17	23.08	23.19	23.06	
20	64QAM	100	0	23.18	23.19	23.09	23.21	23.16	
20	256QAM	1	0	20.98	21.01	21.07	20.97	21.03	22
20	256QAM	1	49	20.82	20.84	20.92	20.90	20.84	
20	256QAM	1	99	20.84	20.80	20.86	20.78	20.79	
20	256QAM	50	0	20.91	21.00	21.00	20.91	20.94	22
20	256QAM	50	24	20.86	20.92	20.94	20.92	20.89	
20	256QAM	50	50	20.82	20.92	20.92	20.91	20.82	
20	256QAM	100	0	20.87	20.78	20.87	20.84	20.82	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	26.11	26.12	26.01	26.17	26.09	27.00
15	QPSK	1	37	25.95	25.81	25.73	25.88	25.79	
15	QPSK	1	74	26.06	26.05	26.03	26.04	25.97	
15	QPSK	36	0	25.20	25.19	25.07	25.21	25.14	26
15	QPSK	36	20	25.17	25.15	25.07	25.19	25.13	
15	QPSK	36	39	25.17	25.15	25.08	25.18	25.08	
15	QPSK	75	0	25.17	25.14	25.04	25.17	25.09	26
15	16QAM	1	0	25.28	25.39	25.32	25.48	25.40	
15	16QAM	1	37	25.01	25.31	24.82	25.31	24.83	
15	16QAM	1	74	25.22	25.38	25.17	25.33	25.12	25
15	16QAM	36	0	24.13	24.12	24.06	24.14	24.09	
15	16QAM	36	20	24.15	24.09	24.06	24.13	24.07	
15	16QAM	36	39	24.15	24.12	24.09	24.14	24.05	25
15	16QAM	75	0	24.17	24.18	24.09	24.21	24.08	
15	64QAM	1	0	24.37	24.33	24.20	24.38	24.25	25
15	64QAM	1	37	24.12	24.09	23.96	24.12	23.88	
15	64QAM	1	74	24.31	24.36	24.29	24.32	24.18	
15	64QAM	36	0	23.15	23.18	23.05	23.22	23.08	24
15	64QAM	36	20	23.15	23.17	23.07	23.19	23.09	
15	64QAM	36	39	23.13	23.18	23.08	23.20	23.04	
15	64QAM	75	0	23.18	23.21	23.07	23.17	23.08	22
15	256QAM	1	0	20.92	20.95	21.05	20.95	21.03	
15	256QAM	1	37	20.78	20.74	20.82	20.80	20.76	
15	256QAM	1	74	20.81	20.71	20.76	20.72	20.75	22
15	256QAM	36	0	20.88	21.00	20.90	20.88	20.88	
15	256QAM	36	20	20.77	20.84	20.88	20.87	20.83	
15	256QAM	36	39	20.76	20.89	20.85	20.89	20.74	



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15	256QAM	75	0	20.80	20.70	20.82	20.84	20.79	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	26.19	26.00	26.11	26.20	26.20	27.00
10	QPSK	1	25	26.14	26.20	26.08	26.20	26.15	
10	QPSK	1	49	26.17	26.20	26.14	26.20	26.12	
10	QPSK	25	0	25.21	25.21	25.13	25.28	25.16	26
10	QPSK	25	12	25.21	25.18	25.12	25.23	25.13	
10	QPSK	25	25	25.19	25.20	25.15	25.26	25.11	
10	QPSK	50	0	25.26	25.22	25.17	25.35	25.22	
10	16QAM	1	0	25.44	25.41	25.30	25.46	25.35	26
10	16QAM	1	25	25.24	25.35	25.13	25.39	25.38	
10	16QAM	1	49	25.17	25.35	25.43	25.35	25.17	
10	16QAM	25	0	24.31	24.34	24.20	24.35	24.25	25
10	16QAM	25	12	24.27	24.31	24.18	24.32	24.24	
10	16QAM	25	25	24.25	24.36	24.19	24.31	24.22	
10	16QAM	50	0	24.21	24.27	24.13	24.33	24.22	
10	64QAM	1	0	24.47	24.55	24.38	24.57	24.38	25
10	64QAM	1	25	24.42	24.43	24.36	24.41	24.13	
10	64QAM	1	49	24.42	24.42	24.23	24.39	24.22	
10	64QAM	25	0	23.26	23.29	23.20	23.30	23.15	24
10	64QAM	25	12	23.26	23.28	23.20	23.22	23.18	
10	64QAM	25	25	23.26	23.27	23.22	23.28	23.15	
10	64QAM	50	0	23.28	23.26	23.19	23.33	23.19	
10	256QAM	1	0	20.94	20.97	21.06	20.90	20.93	22
10	256QAM	1	25	20.81	20.84	20.86	20.80	20.74	
10	256QAM	1	49	20.82	20.70	20.85	20.74	20.78	
10	256QAM	25	0	20.82	20.99	20.99	20.88	20.85	22
10	256QAM	25	12	20.84	20.90	20.87	20.84	20.84	
10	256QAM	25	25	20.73	20.84	20.87	20.86	20.82	
10	256QAM	50	0	20.87	20.77	20.78	20.82	20.77	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	26.20	26.13	26.14	26.19	26.17	27.00
5	QPSK	1	12	26.13	26.20	26.13	26.15	26.14	
5	QPSK	1	24	26.16	26.20	26.10	26.14	26.09	
5	QPSK	12	0	25.22	25.24	25.13	25.27	25.17	26
5	QPSK	12	7	25.21	25.19	25.14	25.27	25.17	
5	QPSK	12	13	25.21	25.23	25.13	25.26	25.15	
5	QPSK	25	0	25.23	25.26	25.12	25.27	25.14	
5	16QAM	1	0	25.58	25.53	25.57	25.55	25.54	26
5	16QAM	1	12	25.49	25.28	25.49	25.45	25.61	
5	16QAM	1	24	25.63	25.62	25.60	25.58	25.59	
5	16QAM	12	0	24.30	24.37	24.22	24.37	24.24	25
5	16QAM	12	7	24.30	24.35	24.24	24.41	24.25	
5	16QAM	12	13	24.28	24.38	24.27	24.41	24.21	
5	16QAM	25	0	24.29	24.33	24.22	24.34	24.17	
5	64QAM	1	0	24.30	24.40	24.32	24.44	24.15	25
5	64QAM	1	12	23.91	24.38	23.86	24.49	23.95	
5	64QAM	1	24	24.29	24.72	24.23	24.69	24.19	
5	64QAM	12	0	23.22	23.39	23.15	23.37	23.11	24
5	64QAM	12	7	23.25	23.32	23.15	23.33	23.16	
5	64QAM	12	13	23.27	23.29	23.20	23.29	23.14	
5	64QAM	25	0	23.23	23.31	23.20	23.31	23.14	
5	256QAM	1	0	20.89	21.00	21.04	20.94	21.01	22
5	256QAM	1	12	20.77	20.84	20.84	20.90	20.82	
5	256QAM	1	24	20.82	20.76	20.85	20.72	20.78	
5	256QAM	12	0	20.82	20.93	20.91	20.88	20.93	22
5	256QAM	12	7	20.76	20.91	20.87	20.83	20.89	
5	256QAM	12	13	20.75	20.87	20.86	20.82	20.79	
5	256QAM	25	0	20.77	20.75	20.84	20.80	20.73	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.42	24.49	24.39	24.58	24.56	25.2
20	QPSK	1	49	24.34	24.47	24.38	24.52	24.46	
20	QPSK	1	99	24.28	24.42	24.37	24.50	24.39	
20	QPSK	50	0	24.47	24.54	24.45	24.64	24.63	25.2
20	QPSK	50	24	24.44	24.50	24.43	24.63	24.58	
20	QPSK	50	50	24.39	24.48	24.43	24.60	24.51	
20	QPSK	100	0	24.40	24.50	24.45	24.61	24.55	25.2
20	16QAM	1	0	24.62	24.95	24.55	25.01	24.82	
20	16QAM	1	49	24.32	24.68	24.35	24.80	24.38	
20	16QAM	1	99	24.36	24.85	24.51	24.84	24.46	25
20	16QAM	50	0	24.26	24.30	24.27	24.43	24.43	
20	16QAM	50	24	24.23	24.28	24.23	24.42	24.36	
20	16QAM	50	50	24.18	24.28	24.24	24.38	24.30	25
20	16QAM	100	0	24.19	24.31	24.24	24.38	24.31	
20	64QAM	1	0	24.32	24.42	24.29	24.52	24.50	
20	64QAM	1	49	24.22	24.24	24.30	24.44	24.33	24
20	64QAM	1	99	24.08	24.20	24.23	24.41	24.19	
20	64QAM	50	0	23.26	23.34	23.24	23.40	23.38	
20	64QAM	50	24	23.23	23.30	23.21	23.37	23.32	22
20	64QAM	50	50	23.21	23.27	23.23	23.35	23.27	
20	64QAM	100	0	23.21	23.32	23.23	23.41	23.32	
20	256QAM	1	0	20.94	20.89	21.06	20.88	20.94	22
20	256QAM	1	49	20.79	20.76	20.90	20.86	20.79	
20	256QAM	1	99	20.82	20.72	20.79	20.70	20.78	
20	256QAM	50	0	20.86	20.95	20.88	20.87	20.90	22
20	256QAM	50	24	20.78	20.90	20.86	20.89	20.77	
20	256QAM	50	50	20.72	20.91	20.91	20.84	20.80	
20	256QAM	100	0	20.84	20.69	20.84	20.77	20.70	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.37	24.46	24.36	24.48	24.54	25.20
15	QPSK	1	37	24.33	24.40	24.28	24.44	24.37	
15	QPSK	1	74	24.18	24.31	24.33	24.41	24.38	
15	QPSK	36	0	24.44	24.47	24.43	24.55	24.60	25.2
15	QPSK	36	20	24.36	24.49	24.40	24.57	24.56	
15	QPSK	36	39	24.34	24.42	24.35	24.58	24.47	
15	QPSK	75	0	24.34	24.39	24.41	24.59	24.43	25.2
15	16QAM	1	0	24.50	24.88	24.51	24.94	24.73	
15	16QAM	1	37	24.21	24.62	24.26	24.69	24.33	
15	16QAM	1	74	24.28	24.73	24.42	24.80	24.34	25
15	16QAM	36	0	24.21	24.24	24.24	24.37	24.39	
15	16QAM	36	20	24.11	24.16	24.16	24.40	24.24	
15	16QAM	36	39	24.15	24.18	24.21	24.27	24.26	25
15	16QAM	75	0	24.11	24.19	24.12	24.31	24.21	
15	64QAM	1	0	24.28	24.37	24.20	24.47	24.41	
15	64QAM	1	37	24.15	24.14	24.26	24.42	24.25	24
15	64QAM	1	74	23.96	24.08	24.12	24.35	24.11	
15	64QAM	36	0	23.21	23.27	23.19	23.38	23.29	
15	64QAM	36	20	23.11	23.25	23.16	23.33	23.20	22
15	64QAM	36	39	23.16	23.26	23.18	23.31	23.22	
15	64QAM	75	0	23.18	23.27	23.19	23.35	23.21	
15	256QAM	1	0	20.87	20.86	20.98	20.83	20.92	22
15	256QAM	1	37	20.74	20.70	20.79	20.85	20.70	
15	256QAM	1	74	20.77	20.68	20.73	20.67	20.69	
15	256QAM	36	0	20.83	20.87	20.76	20.84	20.81	22
15	256QAM	36	20	20.77	20.79	20.83	20.79	20.68	
15	256QAM	36	39	20.65	20.80	20.83	20.74	20.74	



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15	256QAM	75	0	20.82	20.62	20.79	20.71	20.64	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.36	24.47	24.32	24.50	24.44	25.20
10	QPSK	1	25	24.26	24.36	24.36	24.48	24.39	
10	QPSK	1	49	24.23	24.37	24.31	24.38	24.37	
10	QPSK	25	0	24.46	24.47	24.35	24.53	24.58	25.2
10	QPSK	25	12	24.42	24.43	24.33	24.57	24.47	
10	QPSK	25	25	24.36	24.43	24.33	24.54	24.41	
10	QPSK	50	0	24.39	24.39	24.37	24.56	24.53	
10	16QAM	1	0	24.52	24.83	24.47	24.97	24.73	25.2
10	16QAM	1	25	24.23	24.65	24.24	24.74	24.31	
10	16QAM	1	49	24.30	24.73	24.42	24.82	24.36	
10	16QAM	25	0	24.17	24.28	24.26	24.41	24.38	25
10	16QAM	25	12	24.15	24.26	24.22	24.34	24.34	
10	16QAM	25	25	24.07	24.22	24.20	24.27	24.21	
10	16QAM	50	0	24.13	24.28	24.13	24.36	24.29	
10	64QAM	1	0	24.28	24.30	24.22	24.42	24.40	25
10	64QAM	1	25	24.15	24.14	24.24	24.35	24.30	
10	64QAM	1	49	24.06	24.17	24.11	24.30	24.09	
10	64QAM	25	0	23.19	23.26	23.22	23.39	23.31	24
10	64QAM	25	12	23.19	23.24	23.19	23.26	23.31	
10	64QAM	25	25	23.13	23.24	23.11	23.33	23.21	
10	64QAM	50	0	23.12	23.23	23.21	23.36	23.25	
10	256QAM	1	0	20.87	20.83	21.05	20.87	20.84	22
10	256QAM	1	25	20.67	20.68	20.78	20.83	20.75	
10	256QAM	1	49	20.79	20.66	20.67	20.68	20.66	
10	256QAM	25	0	20.83	20.88	20.85	20.79	20.88	22
10	256QAM	25	12	20.66	20.86	20.79	20.83	20.67	
10	256QAM	25	25	20.71	20.87	20.80	20.80	20.79	
10	256QAM	50	0	20.80	20.59	20.81	20.70	20.63	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.34	24.40	24.38	24.46	24.52	25.20
5	QPSK	1	12	24.30	24.46	24.35	24.50	24.45	
5	QPSK	1	24	24.17	24.32	24.36	24.46	24.27	
5	QPSK	12	0	24.43	24.49	24.33	24.57	24.53	25.2
5	QPSK	12	7	24.38	24.43	24.32	24.52	24.56	
5	QPSK	12	13	24.29	24.38	24.32	24.48	24.39	
5	QPSK	25	0	24.37	24.41	24.36	24.56	24.50	
5	16QAM	1	0	24.59	24.86	24.49	24.96	24.74	25.2
5	16QAM	1	12	24.20	24.59	24.34	24.71	24.36	
5	16QAM	1	24	24.28	24.83	24.45	24.75	24.34	
5	16QAM	12	0	24.25	24.23	24.21	24.33	24.32	25
5	16QAM	12	7	24.22	24.21	24.13	24.37	24.29	
5	16QAM	12	13	24.07	24.16	24.12	24.35	24.24	
5	16QAM	25	0	24.17	24.19	24.17	24.29	24.28	
5	64QAM	1	0	24.21	24.35	24.23	24.49	24.40	25
5	64QAM	1	12	24.14	24.17	24.28	24.36	24.25	
5	64QAM	1	24	23.96	24.13	24.14	24.39	24.11	
5	64QAM	12	0	23.17	23.29	23.15	23.39	23.36	24
5	64QAM	12	7	23.21	23.28	23.16	23.35	23.20	
5	64QAM	12	13	23.09	23.21	23.20	23.28	23.23	
5	64QAM	25	0	23.12	23.31	23.15	23.29	23.21	
5	256QAM	1	0	20.89	20.77	21.04	20.80	20.91	22
5	256QAM	1	12	20.76	20.68	20.78	20.83	20.71	
5	256QAM	1	24	20.75	20.63	20.71	20.69	20.66	
5	256QAM	12	0	20.75	20.85	20.78	20.82	20.88	22
5	256QAM	12	7	20.74	20.79	20.79	20.80	20.68	
5	256QAM	12	13	20.71	20.84	20.79	20.76	20.75	
5	256QAM	25	0	20.83	20.61	20.73	20.75	20.65	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.05	26.03	26.29	26.28	26.04	27
20	QPSK	1	49	26.14	26.17	26.05	26.21	26.10	
20	QPSK	1	99	26.00	26.04	25.96	26.02	25.91	
20	QPSK	50	0	25.26	25.23	25.28	25.27	25.14	26
20	QPSK	50	24	25.25	25.22	25.11	25.26	25.11	
20	QPSK	50	50	25.19	25.20	25.10	25.23	25.11	
20	QPSK	100	0	25.20	25.17	25.22	25.19	25.14	26
20	16QAM	1	0	25.51	25.47	25.43	25.56	25.50	
20	16QAM	1	49	25.22	25.64	25.24	25.61	25.19	
20	16QAM	1	99	25.17	25.52	25.19	25.44	25.08	25
20	16QAM	50	0	24.23	24.23	24.07	24.25	24.18	
20	16QAM	50	24	24.17	24.20	24.07	24.21	24.11	
20	16QAM	50	50	24.17	24.19	24.11	24.22	24.07	25
20	16QAM	100	0	24.18	24.16	24.12	24.19	24.12	
20	64QAM	1	0	24.31	24.31	24.24	24.18	24.21	
20	64QAM	1	49	24.32	24.53	24.25	24.49	24.18	25
20	64QAM	1	99	24.17	24.36	24.21	24.31	24.09	
20	64QAM	50	0	23.19	23.20	23.08	23.24	23.13	
20	64QAM	50	24	23.17	23.19	23.07	23.19	23.12	24
20	64QAM	50	50	23.15	23.17	23.08	23.19	23.06	
20	64QAM	100	0	23.18	23.19	23.09	23.21	23.16	
20	256QAM	1	0	20.98	21.01	21.07	20.97	21.03	22
20	256QAM	1	49	20.82	20.84	20.92	20.90	20.84	
20	256QAM	1	99	20.84	20.80	20.86	20.78	20.79	
20	256QAM	50	0	20.91	21.00	21.00	20.91	20.94	22
20	256QAM	50	24	20.86	20.92	20.94	20.92	20.89	
20	256QAM	50	50	20.82	20.92	20.92	20.91	20.82	
20	256QAM	100	0	20.87	20.78	20.87	20.84	20.82	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	26.11	26.12	26.01	26.17	26.09	27.00
15	QPSK	1	37	25.95	25.81	25.73	25.88	25.79	
15	QPSK	1	74	26.06	26.05	26.03	26.04	25.97	
15	QPSK	36	0	25.20	25.19	25.07	25.21	25.14	26
15	QPSK	36	20	25.17	25.15	25.07	25.19	25.13	
15	QPSK	36	39	25.17	25.15	25.08	25.18	25.08	
15	QPSK	75	0	25.17	25.14	25.04	25.17	25.09	26
15	16QAM	1	0	25.28	25.39	25.32	25.48	25.40	
15	16QAM	1	37	25.01	25.31	24.82	25.31	24.83	
15	16QAM	1	74	25.22	25.38	25.17	25.33	25.12	25
15	16QAM	36	0	24.13	24.12	24.06	24.14	24.09	
15	16QAM	36	20	24.15	24.09	24.06	24.13	24.07	
15	16QAM	36	39	24.15	24.12	24.09	24.14	24.05	25
15	16QAM	75	0	24.17	24.18	24.09	24.21	24.08	
15	64QAM	1	0	24.37	24.33	24.20	24.38	24.25	
15	64QAM	1	37	24.12	24.09	23.96	24.12	23.88	25
15	64QAM	1	74	24.31	24.36	24.29	24.32	24.18	
15	64QAM	36	0	23.15	23.18	23.05	23.22	23.08	
15	64QAM	36	20	23.15	23.17	23.07	23.19	23.09	24
15	64QAM	36	39	23.13	23.18	23.08	23.20	23.04	
15	64QAM	75	0	23.18	23.21	23.07	23.17	23.08	
15	256QAM	1	0	20.92	20.95	21.05	20.95	21.03	22
15	256QAM	1	37	20.78	20.74	20.82	20.80	20.76	
15	256QAM	1	74	20.81	20.71	20.76	20.72	20.75	
15	256QAM	36	0	20.88	21.00	20.90	20.88	20.88	22
15	256QAM	36	20	20.77	20.84	20.88	20.87	20.83	
15	256QAM	36	39	20.76	20.89	20.85	20.89	20.74	



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15	256QAM	75	0	20.80	20.70	20.82	20.84	20.79	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	26.19	26.00	26.11	26.20	26.20	27.00
10	QPSK	1	25	26.14	26.20	26.08	26.20	26.15	
10	QPSK	1	49	26.17	26.20	26.14	26.20	26.12	
10	QPSK	25	0	25.21	25.21	25.13	25.28	25.16	26
10	QPSK	25	12	25.21	25.18	25.12	25.23	25.13	
10	QPSK	25	25	25.19	25.20	25.15	25.26	25.11	
10	QPSK	50	0	25.26	25.22	25.17	25.35	25.22	
10	16QAM	1	0	25.44	25.41	25.30	25.46	25.35	26
10	16QAM	1	25	25.24	25.35	25.13	25.39	25.38	
10	16QAM	1	49	25.17	25.35	25.43	25.35	25.17	
10	16QAM	25	0	24.31	24.34	24.20	24.35	24.25	25
10	16QAM	25	12	24.27	24.31	24.18	24.32	24.24	
10	16QAM	25	25	24.25	24.36	24.19	24.31	24.22	
10	16QAM	50	0	24.21	24.27	24.13	24.33	24.22	
10	64QAM	1	0	24.47	24.55	24.38	24.57	24.38	25
10	64QAM	1	25	24.42	24.43	24.36	24.41	24.13	
10	64QAM	1	49	24.42	24.42	24.23	24.39	24.22	
10	64QAM	25	0	23.26	23.29	23.20	23.30	23.15	24
10	64QAM	25	12	23.26	23.28	23.20	23.22	23.18	
10	64QAM	25	25	23.26	23.27	23.22	23.28	23.15	
10	64QAM	50	0	23.28	23.26	23.19	23.33	23.19	
10	256QAM	1	0	20.94	20.97	21.06	20.90	20.93	22
10	256QAM	1	25	20.81	20.84	20.86	20.80	20.74	
10	256QAM	1	49	20.82	20.70	20.85	20.74	20.78	
10	256QAM	25	0	20.82	20.99	20.99	20.88	20.85	22
10	256QAM	25	12	20.84	20.90	20.87	20.84	20.84	
10	256QAM	25	25	20.73	20.84	20.87	20.86	20.82	
10	256QAM	50	0	20.87	20.77	20.78	20.82	20.77	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	26.20	26.13	26.14	26.19	26.17	27.00
5	QPSK	1	12	26.13	26.20	26.13	26.15	26.14	
5	QPSK	1	24	26.16	26.20	26.10	26.14	26.09	
5	QPSK	12	0	25.22	25.24	25.13	25.27	25.17	26
5	QPSK	12	7	25.21	25.19	25.14	25.27	25.17	
5	QPSK	12	13	25.21	25.23	25.13	25.26	25.15	
5	QPSK	25	0	25.23	25.26	25.12	25.27	25.14	
5	16QAM	1	0	25.58	25.53	25.57	25.55	25.54	26
5	16QAM	1	12	25.49	25.28	25.49	25.45	25.61	
5	16QAM	1	24	25.63	25.62	25.60	25.58	25.59	
5	16QAM	12	0	24.30	24.37	24.22	24.37	24.24	25
5	16QAM	12	7	24.30	24.35	24.24	24.41	24.25	
5	16QAM	12	13	24.28	24.38	24.27	24.41	24.21	
5	16QAM	25	0	24.29	24.33	24.22	24.34	24.17	
5	64QAM	1	0	24.30	24.40	24.32	24.44	24.15	25
5	64QAM	1	12	23.91	24.38	23.86	24.49	23.95	
5	64QAM	1	24	24.29	24.72	24.23	24.69	24.19	
5	64QAM	12	0	23.22	23.39	23.15	23.37	23.11	24
5	64QAM	12	7	23.25	23.32	23.15	23.33	23.16	
5	64QAM	12	13	23.27	23.29	23.20	23.29	23.14	
5	64QAM	25	0	23.23	23.31	23.20	23.31	23.14	
5	256QAM	1	0	20.89	21.00	21.04	20.94	21.01	22
5	256QAM	1	12	20.77	20.84	20.84	20.90	20.82	
5	256QAM	1	24	20.82	20.76	20.85	20.72	20.78	
5	256QAM	12	0	20.82	20.93	20.91	20.88	20.93	22
5	256QAM	12	7	20.76	20.91	20.87	20.83	20.89	
5	256QAM	12	13	20.75	20.87	20.86	20.82	20.79	
5	256QAM	25	0	20.77	20.75	20.84	20.80	20.73	



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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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.42	24.49	24.39	24.58	24.56	25.2
20	QPSK	1	49	24.34	24.47	24.38	24.52	24.46	
20	QPSK	1	99	24.28	24.42	24.37	24.50	24.39	
20	QPSK	50	0	24.47	24.54	24.45	24.64	24.63	25.2
20	QPSK	50	24	24.44	24.50	24.43	24.63	24.58	
20	QPSK	50	50	24.39	24.48	24.43	24.60	24.51	
20	QPSK	100	0	24.40	24.50	24.45	24.61	24.55	25.2
20	16QAM	1	0	24.62	24.95	24.55	25.01	24.82	
20	16QAM	1	49	24.32	24.68	24.35	24.80	24.38	
20	16QAM	1	99	24.36	24.85	24.51	24.84	24.46	25
20	16QAM	50	0	24.26	24.30	24.27	24.43	24.43	
20	16QAM	50	24	24.23	24.28	24.23	24.42	24.36	
20	16QAM	50	50	24.18	24.28	24.24	24.38	24.30	25
20	16QAM	100	0	24.19	24.31	24.24	24.38	24.31	
20	64QAM	1	0	24.32	24.42	24.29	24.52	24.50	
20	64QAM	1	49	24.22	24.24	24.30	24.44	24.33	24
20	64QAM	1	99	24.08	24.20	24.23	24.41	24.19	
20	64QAM	50	0	23.26	23.34	23.24	23.40	23.38	
20	64QAM	50	24	23.23	23.30	23.21	23.37	23.32	22
20	64QAM	50	50	23.21	23.27	23.23	23.35	23.27	
20	64QAM	100	0	23.21	23.32	23.23	23.41	23.32	
20	256QAM	1	0	20.94	20.89	21.06	20.88	20.94	22
20	256QAM	1	49	20.79	20.76	20.90	20.86	20.79	
20	256QAM	1	99	20.82	20.72	20.79	20.70	20.78	
20	256QAM	50	0	20.86	20.95	20.88	20.87	20.90	22
20	256QAM	50	24	20.78	20.90	20.86	20.89	20.77	
20	256QAM	50	50	20.72	20.91	20.91	20.84	20.80	
20	256QAM	100	0	20.84	20.69	20.84	20.77	20.70	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.37	24.46	24.36	24.48	24.54	25.20
15	QPSK	1	37	24.33	24.40	24.28	24.44	24.37	
15	QPSK	1	74	24.18	24.31	24.33	24.41	24.38	
15	QPSK	36	0	24.44	24.47	24.43	24.55	24.60	25.2
15	QPSK	36	20	24.36	24.49	24.40	24.57	24.56	
15	QPSK	36	39	24.34	24.42	24.35	24.58	24.47	
15	QPSK	75	0	24.34	24.39	24.41	24.59	24.43	25.2
15	16QAM	1	0	24.50	24.88	24.51	24.94	24.73	
15	16QAM	1	37	24.21	24.62	24.26	24.69	24.33	
15	16QAM	1	74	24.28	24.73	24.42	24.80	24.34	25
15	16QAM	36	0	24.21	24.24	24.24	24.37	24.39	
15	16QAM	36	20	24.11	24.16	24.16	24.40	24.24	
15	16QAM	36	39	24.15	24.18	24.21	24.27	24.26	25
15	16QAM	75	0	24.11	24.19	24.12	24.31	24.21	
15	64QAM	1	0	24.28	24.37	24.20	24.47	24.41	
15	64QAM	1	37	24.15	24.14	24.26	24.42	24.25	24
15	64QAM	1	74	23.96	24.08	24.12	24.35	24.11	
15	64QAM	36	0	23.21	23.27	23.19	23.38	23.29	
15	64QAM	36	20	23.11	23.25	23.16	23.33	23.20	22
15	64QAM	36	39	23.16	23.26	23.18	23.31	23.22	
15	64QAM	75	0	23.18	23.27	23.19	23.35	23.21	
15	256QAM	1	0	20.87	20.86	20.98	20.83	20.92	22
15	256QAM	1	37	20.74	20.70	20.79	20.85	20.70	
15	256QAM	1	74	20.77	20.68	20.73	20.67	20.69	
15	256QAM	36	0	20.83	20.87	20.76	20.84	20.81	22
15	256QAM	36	20	20.77	20.79	20.83	20.79	20.68	
15	256QAM	36	39	20.65	20.80	20.83	20.74	20.74	



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15	256QAM	75	0	20.82	20.62	20.79	20.71	20.64	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.36	24.47	24.32	24.50	24.44	25.20
10	QPSK	1	25	24.26	24.36	24.36	24.48	24.39	
10	QPSK	1	49	24.23	24.37	24.31	24.38	24.37	
10	QPSK	25	0	24.46	24.47	24.35	24.53	24.58	25.2
10	QPSK	25	12	24.42	24.43	24.33	24.57	24.47	
10	QPSK	25	25	24.36	24.43	24.33	24.54	24.41	
10	QPSK	50	0	24.39	24.39	24.37	24.56	24.53	
10	16QAM	1	0	24.52	24.83	24.47	24.97	24.73	25.2
10	16QAM	1	25	24.23	24.65	24.24	24.74	24.31	
10	16QAM	1	49	24.30	24.73	24.42	24.82	24.36	
10	16QAM	25	0	24.17	24.28	24.26	24.41	24.38	25
10	16QAM	25	12	24.15	24.26	24.22	24.34	24.34	
10	16QAM	25	25	24.07	24.22	24.20	24.27	24.21	
10	16QAM	50	0	24.13	24.28	24.13	24.36	24.29	
10	64QAM	1	0	24.28	24.30	24.22	24.42	24.40	25
10	64QAM	1	25	24.15	24.14	24.24	24.35	24.30	
10	64QAM	1	49	24.06	24.17	24.11	24.30	24.09	
10	64QAM	25	0	23.19	23.26	23.22	23.39	23.31	24
10	64QAM	25	12	23.19	23.24	23.19	23.26	23.31	
10	64QAM	25	25	23.13	23.24	23.11	23.33	23.21	
10	64QAM	50	0	23.12	23.23	23.21	23.36	23.25	
10	256QAM	1	0	20.87	20.83	21.05	20.87	20.84	22
10	256QAM	1	25	20.67	20.68	20.78	20.83	20.75	
10	256QAM	1	49	20.79	20.66	20.67	20.68	20.66	
10	256QAM	25	0	20.83	20.88	20.85	20.79	20.88	22
10	256QAM	25	12	20.66	20.86	20.79	20.83	20.67	
10	256QAM	25	25	20.71	20.87	20.80	20.80	20.79	
10	256QAM	50	0	20.80	20.59	20.81	20.70	20.63	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	24.34	24.40	24.38	24.46	24.52	25.20
5	QPSK	1	12	24.30	24.46	24.35	24.50	24.45	
5	QPSK	1	24	24.17	24.32	24.36	24.46	24.27	
5	QPSK	12	0	24.43	24.49	24.33	24.57	24.53	25.2
5	QPSK	12	7	24.38	24.43	24.32	24.52	24.56	
5	QPSK	12	13	24.29	24.38	24.32	24.48	24.39	
5	QPSK	25	0	24.37	24.41	24.36	24.56	24.50	
5	16QAM	1	0	24.59	24.86	24.49	24.96	24.74	25.2
5	16QAM	1	12	24.20	24.59	24.34	24.71	24.36	
5	16QAM	1	24	24.28	24.83	24.45	24.75	24.34	
5	16QAM	12	0	24.25	24.23	24.21	24.33	24.32	25
5	16QAM	12	7	24.22	24.21	24.13	24.37	24.29	
5	16QAM	12	13	24.07	24.16	24.12	24.35	24.24	
5	16QAM	25	0	24.17	24.19	24.17	24.29	24.28	
5	64QAM	1	0	24.21	24.35	24.23	24.49	24.40	25
5	64QAM	1	12	24.14	24.17	24.28	24.36	24.25	
5	64QAM	1	24	23.96	24.13	24.14	24.39	24.11	
5	64QAM	12	0	23.17	23.29	23.15	23.39	23.36	24
5	64QAM	12	7	23.21	23.28	23.16	23.35	23.20	
5	64QAM	12	13	23.09	23.21	23.20	23.28	23.23	
5	64QAM	25	0	23.12	23.31	23.15	23.29	23.21	
5	256QAM	1	0	20.89	20.77	21.04	20.80	20.91	22
5	256QAM	1	12	20.76	20.68	20.78	20.83	20.71	
5	256QAM	1	24	20.75	20.63	20.71	20.69	20.66	
5	256QAM	12	0	20.75	20.85	20.78	20.82	20.88	22
5	256QAM	12	7	20.74	20.79	20.79	20.80	20.68	
5	256QAM	12	13	20.71	20.84	20.79	20.76	20.75	
5	256QAM	25	0	20.83	20.61	20.73	20.75	20.65	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.58	23.58	23.69	23.68	24.5
20	QPSK	1	49	23.40	23.46	23.48	23.51	
20	QPSK	1	99	23.33	23.28	23.33	23.36	
20	QPSK	50	0	21.64	21.58	21.68	21.65	23.5
20	QPSK	50	24	21.54	21.55	21.58	21.51	
20	QPSK	50	50	21.50	21.50	21.52	21.53	
20	QPSK	100	0	21.57	21.51	21.58	21.52	
20	16QAM	1	0	22.71	22.66	22.67	22.71	23.5
20	16QAM	1	49	22.53	22.47	22.48	22.52	
20	16QAM	1	99	22.44	22.40	22.34	22.39	
20	16QAM	50	0	20.60	20.56	20.56	20.56	22.5
20	16QAM	50	24	20.55	20.52	20.52	20.51	
20	16QAM	50	50	20.52	20.53	20.50	20.52	
20	16QAM	100	0	20.51	20.52	20.58	20.51	
20	64QAM	1	0	21.68	21.46	21.46	21.52	22.5
20	64QAM	1	49	21.50	21.35	21.30	21.34	
20	64QAM	1	99	21.41	21.23	21.19	21.25	
20	64QAM	50	0	19.63	19.59	19.61	19.59	21.5
20	64QAM	50	24	19.56	19.55	19.55	19.50	
20	64QAM	50	50	19.52	19.54	19.53	19.51	
20	64QAM	100	0	19.50	19.56	19.58	19.57	
20	256QAM	1	0	18.38	18.37	18.40	18.37	19.5
20	256QAM	1	49	18.06	18.10	18.15	18.14	
20	256QAM	1	99	18.16	18.16	18.20	18.19	
20	256QAM	50	0	17.57	17.56	17.59	17.51	19.5
20	256QAM	50	24	17.57	17.57	17.57	17.51	
20	256QAM	50	50	17.54	17.54	17.55	17.57	
20	256QAM	100	0	17.55	17.59	17.54	17.58	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.66	23.62	23.54	23.60	24.5
15	QPSK	1	37	23.45	23.38	23.32	23.36	
15	QPSK	1	74	23.48	23.42	23.37	23.36	
15	QPSK	36	0	21.61	21.57	21.55	21.56	23.5
15	QPSK	36	20	21.56	21.51	21.50	21.51	
15	QPSK	36	39	21.50	21.52	21.55	21.56	
15	QPSK	75	0	21.58	21.51	21.52	21.50	
15	16QAM	1	0	22.69	22.69	22.66	22.78	23.5
15	16QAM	1	37	22.66	22.53	22.58	22.61	
15	16QAM	1	74	22.51	22.49	22.46	22.57	
15	16QAM	36	0	20.57	20.52	20.54	20.59	22.5
15	16QAM	36	20	20.52	20.54	20.58	20.54	
15	16QAM	36	39	20.56	20.53	20.52	20.57	
15	16QAM	75	0	20.57	20.56	20.52	20.55	
15	64QAM	1	0	21.40	21.50	21.45	21.35	22.5
15	64QAM	1	37	21.35	21.47	21.21	21.15	
15	64QAM	1	74	21.32	21.33	21.17	21.14	
15	64QAM	36	0	19.59	19.59	19.57	19.61	21.5
15	64QAM	36	20	19.55	19.51	19.52	19.57	
15	64QAM	36	39	19.52	19.58	19.56	19.50	
15	64QAM	75	0	19.51	19.52	19.57	19.51	
15	256QAM	1	0	18.29	18.35	18.32	18.34	19.5
15	256QAM	1	37	17.99	18.03	18.05	18.09	
15	256QAM	1	74	18.14	18.07	18.16	18.15	
15	256QAM	36	0	17.50	17.56	17.55	17.59	19.5
15	256QAM	36	20	17.57	17.57	17.54	17.52	
15	256QAM	36	39	17.55	17.56	17.50	17.57	



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15	256QAM	75	0	17.54	17.57	17.52	17.57	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.60	23.67	23.63	23.62	24.5
10	QPSK	1	25	23.49	23.47	23.47	23.42	
10	QPSK	1	49	23.59	23.56	23.52	23.52	
10	QPSK	25	0	21.64	21.60	21.56	21.57	23.5
10	QPSK	25	12	21.60	21.58	21.54	21.55	
10	QPSK	25	25	21.57	21.53	21.52	21.51	
10	QPSK	50	0	21.60	21.57	21.51	21.50	
10	16QAM	1	0	22.66	22.64	22.60	22.79	23.5
10	16QAM	1	25	22.57	22.59	22.52	22.76	
10	16QAM	1	49	22.50	22.52	22.43	22.64	
10	16QAM	25	0	20.69	20.66	20.62	20.67	22.5
10	16QAM	25	12	20.67	20.64	20.59	20.59	
10	16QAM	25	25	20.61	20.59	20.54	20.58	
10	16QAM	50	0	20.57	20.55	20.50	20.50	
10	64QAM	1	0	21.46	21.44	21.28	21.47	22.5
10	64QAM	1	25	21.34	21.28	21.10	21.24	
10	64QAM	1	49	21.41	21.30	21.11	21.29	
10	64QAM	25	0	19.61	19.57	19.53	19.58	21.5
10	64QAM	25	12	19.60	19.51	19.53	19.51	
10	64QAM	25	25	19.54	19.50	19.52	19.52	
10	64QAM	50	0	19.59	19.54	19.55	19.51	
10	256QAM	1	0	18.29	18.33	18.39	18.34	19.5
10	256QAM	1	25	18.05	18.00	18.06	18.09	
10	256QAM	1	49	18.16	18.14	18.11	18.19	
10	256QAM	25	0	17.57	17.56	17.58	17.58	19.5
10	256QAM	25	12	17.57	17.59	17.57	17.51	
10	256QAM	25	25	17.50	17.57	17.55	17.54	
10	256QAM	50	0	17.50	17.54	17.53	17.57	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.64	23.54	23.54	23.38	24.5
5	QPSK	1	12	23.64	23.46	23.59	23.46	
5	QPSK	1	24	23.57	23.49	23.48	23.33	
5	QPSK	12	0	21.58	21.53	21.54	21.55	23.5
5	QPSK	12	7	21.54	21.54	21.52	21.53	
5	QPSK	12	13	21.55	21.50	21.50	21.54	
5	QPSK	25	0	21.62	21.54	21.55	21.55	
5	16QAM	1	0	22.54	22.62	22.62	22.52	23.5
5	16QAM	1	12	22.39	22.54	22.57	22.55	
5	16QAM	1	24	22.46	22.55	22.54	22.56	
5	16QAM	12	0	20.57	20.52	20.51	20.51	22.5
5	16QAM	12	7	20.54	20.56	20.57	20.56	
5	16QAM	12	13	20.54	20.54	20.58	20.54	
5	16QAM	25	0	20.69	20.61	20.57	20.57	
5	64QAM	1	0	21.42	21.44	21.34	21.20	22.5
5	64QAM	1	12	21.28	21.34	21.37	21.05	
5	64QAM	1	24	21.36	21.37	21.31	21.16	
5	64QAM	12	0	19.58	19.55	19.55	19.53	21.5
5	64QAM	12	7	19.53	19.52	19.54	19.51	
5	64QAM	12	13	19.55	19.53	19.52	19.50	
5	64QAM	25	0	19.61	19.54	19.53	19.53	
5	256QAM	1	0	18.38	18.29	18.39	18.34	19.5
5	256QAM	1	12	18.00	18.05	18.07	18.07	
5	256QAM	1	24	18.07	18.07	18.19	18.17	
5	256QAM	12	0	17.59	17.50	17.59	17.58	19.5
5	256QAM	12	7	17.58	17.53	17.54	17.57	
5	256QAM	12	13	17.55	17.51	17.55	17.57	
5	256QAM	25	0	17.50	17.53	17.54	17.58	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.58	23.58	23.69	23.68	24.5
20	QPSK	1	49	23.40	23.46	23.48	23.51	
20	QPSK	1	99	23.33	23.28	23.33	23.36	
20	QPSK	50	0	21.64	21.58	21.68	21.65	23.5
20	QPSK	50	24	21.54	21.55	21.58	21.51	
20	QPSK	50	50	21.50	21.50	21.52	21.53	
20	QPSK	100	0	21.57	21.51	21.58	21.52	23.5
20	16QAM	1	0	22.71	22.66	22.67	22.71	
20	16QAM	1	49	22.53	22.47	22.48	22.52	
20	16QAM	1	99	22.44	22.40	22.34	22.39	22.5
20	16QAM	50	0	20.60	20.56	20.56	20.56	
20	16QAM	50	24	20.55	20.52	20.52	20.51	
20	16QAM	50	50	20.52	20.53	20.50	20.52	22.5
20	16QAM	100	0	20.51	20.52	20.58	20.51	
20	64QAM	1	0	21.68	21.46	21.46	21.52	
20	64QAM	1	49	21.50	21.35	21.30	21.34	21.5
20	64QAM	1	99	21.41	21.23	21.19	21.25	
20	64QAM	50	0	19.63	19.59	19.61	19.59	
20	64QAM	50	24	19.56	19.55	19.55	19.50	19.5
20	64QAM	50	50	19.52	19.54	19.53	19.51	
20	64QAM	100	0	19.50	19.56	19.58	19.57	
20	256QAM	1	0	18.38	18.37	18.40	18.37	19.5
20	256QAM	1	49	18.06	18.10	18.15	18.14	
20	256QAM	1	99	18.16	18.16	18.20	18.19	
20	256QAM	50	0	17.57	17.56	17.59	17.51	19.5
20	256QAM	50	24	17.57	17.57	17.57	17.51	
20	256QAM	50	50	17.54	17.54	17.55	17.57	
20	256QAM	100	0	17.55	17.59	17.54	17.58	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.66	23.62	23.54	23.60	24.5
15	QPSK	1	37	23.45	23.38	23.32	23.36	
15	QPSK	1	74	23.48	23.42	23.37	23.36	
15	QPSK	36	0	21.61	21.57	21.55	21.56	23.5
15	QPSK	36	20	21.56	21.51	21.50	21.51	
15	QPSK	36	39	21.50	21.52	21.55	21.56	
15	QPSK	75	0	21.58	21.51	21.52	21.50	23.5
15	16QAM	1	0	22.69	22.69	22.66	22.78	
15	16QAM	1	37	22.66	22.53	22.58	22.61	
15	16QAM	1	74	22.51	22.49	22.46	22.57	22.5
15	16QAM	36	0	20.57	20.52	20.54	20.59	
15	16QAM	36	20	20.52	20.54	20.58	20.54	
15	16QAM	36	39	20.56	20.53	20.52	20.57	22.5
15	16QAM	75	0	20.57	20.56	20.52	20.55	
15	64QAM	1	0	21.40	21.50	21.45	21.35	
15	64QAM	1	37	21.35	21.47	21.21	21.15	21.5
15	64QAM	1	74	21.32	21.33	21.17	21.14	
15	64QAM	36	0	19.59	19.59	19.57	19.61	
15	64QAM	36	20	19.55	19.51	19.52	19.57	19.5
15	64QAM	36	39	19.52	19.58	19.56	19.50	
15	64QAM	75	0	19.51	19.52	19.57	19.51	
15	256QAM	1	0	18.29	18.35	18.32	18.34	19.5
15	256QAM	1	37	17.99	18.03	18.05	18.09	
15	256QAM	1	74	18.14	18.07	18.16	18.15	
15	256QAM	36	0	17.50	17.56	17.55	17.59	19.5
15	256QAM	36	20	17.57	17.57	17.54	17.52	
15	256QAM	36	39	17.55	17.56	17.50	17.57	



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15	256QAM	75	0	17.54	17.57	17.52	17.57	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.60	23.67	23.63	23.62	24.5
10	QPSK	1	25	23.49	23.47	23.47	23.42	
10	QPSK	1	49	23.59	23.56	23.52	23.52	
10	QPSK	25	0	21.64	21.60	21.56	21.57	23.5
10	QPSK	25	12	21.60	21.58	21.54	21.55	
10	QPSK	25	25	21.57	21.53	21.52	21.51	
10	QPSK	50	0	21.60	21.57	21.51	21.50	
10	16QAM	1	0	22.66	22.64	22.60	22.79	23.5
10	16QAM	1	25	22.57	22.59	22.52	22.76	
10	16QAM	1	49	22.50	22.52	22.43	22.64	
10	16QAM	25	0	20.69	20.66	20.62	20.67	22.5
10	16QAM	25	12	20.67	20.64	20.59	20.59	
10	16QAM	25	25	20.61	20.59	20.54	20.58	
10	16QAM	50	0	20.57	20.55	20.50	20.50	
10	64QAM	1	0	21.46	21.44	21.28	21.47	22.5
10	64QAM	1	25	21.34	21.28	21.10	21.24	
10	64QAM	1	49	21.41	21.30	21.11	21.29	
10	64QAM	25	0	19.61	19.57	19.53	19.58	21.5
10	64QAM	25	12	19.60	19.51	19.53	19.51	
10	64QAM	25	25	19.54	19.50	19.52	19.52	
10	64QAM	50	0	19.59	19.54	19.55	19.51	
10	256QAM	1	0	18.29	18.33	18.39	18.34	19.5
10	256QAM	1	25	18.05	18.00	18.06	18.09	
10	256QAM	1	49	18.16	18.14	18.11	18.19	
10	256QAM	25	0	17.57	17.56	17.58	17.58	19.5
10	256QAM	25	12	17.57	17.59	17.57	17.51	
10	256QAM	25	25	17.50	17.57	17.55	17.54	
10	256QAM	50	0	17.50	17.54	17.53	17.57	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.64	23.54	23.54	23.38	24.5
5	QPSK	1	12	23.64	23.46	23.59	23.46	
5	QPSK	1	24	23.57	23.49	23.48	23.33	
5	QPSK	12	0	21.58	21.53	21.54	21.55	23.5
5	QPSK	12	7	21.54	21.54	21.52	21.53	
5	QPSK	12	13	21.55	21.50	21.50	21.54	
5	QPSK	25	0	21.62	21.54	21.55	21.55	
5	16QAM	1	0	22.54	22.62	22.62	22.52	23.5
5	16QAM	1	12	22.39	22.54	22.57	22.55	
5	16QAM	1	24	22.46	22.55	22.54	22.56	
5	16QAM	12	0	20.57	20.52	20.51	20.51	22.5
5	16QAM	12	7	20.54	20.56	20.57	20.56	
5	16QAM	12	13	20.54	20.54	20.58	20.54	
5	16QAM	25	0	20.69	20.61	20.57	20.57	
5	64QAM	1	0	21.42	21.44	21.34	21.20	22.5
5	64QAM	1	12	21.28	21.34	21.37	21.05	
5	64QAM	1	24	21.36	21.37	21.31	21.16	
5	64QAM	12	0	19.58	19.55	19.55	19.53	21.5
5	64QAM	12	7	19.53	19.52	19.54	19.51	
5	64QAM	12	13	19.55	19.53	19.52	19.50	
5	64QAM	25	0	19.61	19.54	19.53	19.53	
5	256QAM	1	0	18.38	18.29	18.39	18.34	19.5
5	256QAM	1	12	18.00	18.05	18.07	18.07	
5	256QAM	1	24	18.07	18.07	18.19	18.17	
5	256QAM	12	0	17.59	17.50	17.59	17.58	19.5
5	256QAM	12	7	17.58	17.53	17.54	17.57	
5	256QAM	12	13	17.55	17.51	17.55	17.57	
5	256QAM	25	0	17.50	17.53	17.54	17.58	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	20.67	20.66	20.74	20.54	22.1
20	QPSK	1	49	20.64	20.66	20.59	20.45	
20	QPSK	1	99	20.42	20.35	20.31	20.21	
20	QPSK	50	0	20.64	20.61	20.70	20.47	22.1
20	QPSK	50	24	20.59	20.59	20.51	20.41	
20	QPSK	50	50	20.51	20.48	20.41	20.29	
20	QPSK	100	0	20.56	20.56	20.50	20.39	
20	16QAM	1	0	20.65	20.69	20.71	20.69	22.1
20	16QAM	1	49	20.56	20.66	20.65	20.65	
20	16QAM	1	99	20.43	20.43	20.45	20.28	
20	16QAM	50	0	20.61	20.61	20.61	20.50	
20	16QAM	50	24	20.55	20.55	20.51	20.42	22.1
20	16QAM	50	50	20.49	20.47	20.43	20.34	
20	16QAM	100	0	20.57	20.58	20.52	20.44	
20	64QAM	1	0	20.34	20.47	20.48	20.42	
20	64QAM	1	49	20.23	20.53	20.42	20.38	22.1
20	64QAM	1	99	20.16	20.29	20.16	20.18	
20	64QAM	50	0	19.65	19.63	19.60	19.50	
20	64QAM	50	24	19.63	19.56	19.49	19.43	21.1
20	64QAM	50	50	19.52	19.48	19.42	19.35	
20	64QAM	100	0	19.54	19.54	19.48	19.43	
20	256QAM	1	0	18.25	18.23	18.30	18.25	19.1
20	256QAM	1	49	17.97	17.98	18.01	18.03	
20	256QAM	1	99	18.05	18.06	18.09	18.08	
20	256QAM	50	0	17.45	17.43	17.44	17.39	19.1
20	256QAM	50	24	17.47	17.45	17.42	17.41	
20	256QAM	50	50	17.42	17.45	17.43	17.45	
20	256QAM	100	0	17.43	17.47	17.44	17.46	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	20.63	20.57	20.52	20.47	22.1
15	QPSK	1	37	20.71	20.50	20.44	20.45	
15	QPSK	1	74	20.46	20.37	20.32	20.28	
15	QPSK	36	0	20.60	20.56	20.53	20.44	22.1
15	QPSK	36	20	20.57	20.49	20.44	20.41	
15	QPSK	36	39	20.49	20.45	20.37	20.33	
15	QPSK	75	0	20.56	20.51	20.45	20.37	
15	16QAM	1	0	20.55	20.66	20.55	20.53	22.1
15	16QAM	1	37	20.52	20.33	20.23	20.34	
15	16QAM	1	74	20.43	20.46	20.37	20.29	
15	16QAM	36	0	20.56	20.55	20.50	20.48	22.1
15	16QAM	36	20	20.55	20.46	20.43	20.45	
15	16QAM	36	39	20.48	20.43	20.37	20.36	
15	16QAM	75	0	20.59	20.52	20.49	20.44	
15	64QAM	1	0	20.46	20.47	20.27	20.31	22.1
15	64QAM	1	37	20.46	20.30	20.16	20.30	
15	64QAM	1	74	20.30	20.20	20.12	20.13	
15	64QAM	36	0	19.60	19.58	19.55	19.49	21.1
15	64QAM	36	20	19.57	19.51	19.44	19.45	
15	64QAM	36	39	19.49	19.46	19.41	19.37	
15	64QAM	75	0	19.51	19.46	19.42	19.39	
15	256QAM	1	0	18.28	18.28	18.33	18.28	19.1
15	256QAM	1	37	18.00	18.00	18.06	18.07	
15	256QAM	1	74	18.07	18.10	18.14	18.11	
15	256QAM	36	0	17.49	17.47	17.49	17.43	19.1
15	256QAM	36	20	17.52	17.50	17.47	17.46	
15	256QAM	36	39	17.45	17.48	17.47	17.48	



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15	256QAM	75	0	17.45	17.51	17.49	17.49	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	20.63	20.58	20.53	20.46	22.1
10	QPSK	1	25	20.46	20.39	20.37	20.25	
10	QPSK	1	49	20.49	20.40	20.37	20.27	
10	QPSK	25	0	20.62	20.58	20.56	20.46	22.1
10	QPSK	25	12	20.61	20.53	20.52	20.42	
10	QPSK	25	25	20.55	20.51	20.46	20.38	
10	QPSK	50	0	20.62	20.53	20.47	20.41	
10	16QAM	1	0	20.64	20.61	20.56	20.57	22.1
10	16QAM	1	25	20.51	20.46	20.42	20.43	
10	16QAM	1	49	20.53	20.48	20.39	20.42	
10	16QAM	25	0	20.69	20.67	20.63	20.59	22.1
10	16QAM	25	12	20.68	20.62	20.61	20.55	
10	16QAM	25	25	20.61	20.60	20.53	20.49	
10	16QAM	50	0	20.62	20.52	20.48	20.41	
10	64QAM	1	0	20.58	20.48	20.40	20.35	22.1
10	64QAM	1	25	20.41	20.35	20.25	20.22	
10	64QAM	1	49	20.42	20.25	20.20	20.25	
10	64QAM	25	0	19.60	19.58	19.54	19.50	21.1
10	64QAM	25	12	19.58	19.53	19.52	19.49	
10	64QAM	25	25	19.53	19.49	19.44	19.41	
10	64QAM	50	0	19.61	19.55	19.50	19.42	
10	256QAM	1	0	18.30	18.27	18.33	18.30	19.1
10	256QAM	1	25	18.01	18.00	18.09	18.07	
10	256QAM	1	49	18.07	18.07	18.13	18.09	
10	256QAM	25	0	17.51	17.46	17.51	17.41	19.1
10	256QAM	25	12	17.47	17.52	17.49	17.43	
10	256QAM	25	25	17.47	17.48	17.48	17.51	
10	256QAM	50	0	17.46	17.49	17.49	17.53	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	20.59	20.54	20.52	20.29	22.1
5	QPSK	1	12	20.50	20.56	20.50	20.23	
5	QPSK	1	24	20.53	20.47	20.43	20.20	
5	QPSK	12	0	20.65	20.60	20.59	20.36	22.1
5	QPSK	12	7	20.60	20.59	20.61	20.32	
5	QPSK	12	13	20.64	20.56	20.55	20.35	
5	QPSK	25	0	20.67	20.55	20.53	20.31	
5	16QAM	1	0	20.62	20.72	20.59	20.52	22.1
5	16QAM	1	12	20.58	20.71	20.71	20.45	
5	16QAM	1	24	20.58	20.68	20.57	20.37	
5	16QAM	12	0	20.61	20.57	20.51	20.35	22.1
5	16QAM	12	7	20.58	20.54	20.50	20.29	
5	16QAM	12	13	20.58	20.54	20.49	20.30	
5	16QAM	25	0	20.70	20.64	20.61	20.37	
5	64QAM	1	0	20.46	20.46	20.53	20.29	22.1
5	64QAM	1	12	20.40	20.58	20.66	20.24	
5	64QAM	1	24	20.43	20.43	20.46	20.20	
5	64QAM	12	0	19.57	19.56	19.53	19.36	
5	64QAM	12	7	19.58	19.55	19.52	19.29	21.1
5	64QAM	12	13	19.55	19.52	19.49	19.32	
5	64QAM	25	0	19.65	19.56	19.49	19.31	
5	256QAM	1	0	18.33	18.28	18.30	18.27	
5	256QAM	1	12	17.96	18.04	18.05	18.08	19.1
5	256QAM	1	24	18.07	18.06	18.14	18.13	
5	256QAM	12	0	17.50	17.46	17.51	17.45	
5	256QAM	12	7	17.52	17.51	17.51	17.42	19.1
5	256QAM	12	13	17.44	17.45	17.45	17.50	
5	256QAM	25	0	17.49	17.51	17.47	17.53	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	22.11	22.11	22.22	21.95	23.2
20	QPSK	1	49	22.06	22.11	22.11	21.88	
20	QPSK	1	99	21.84	21.83	21.79	21.64	
20	QPSK	50	0	21.62	21.65	21.71	21.47	23.2
20	QPSK	50	24	21.58	21.55	21.53	21.38	
20	QPSK	50	50	21.51	21.48	21.44	21.31	
20	QPSK	100	0	21.56	21.55	21.51	21.40	
20	16QAM	1	0	22.18	22.18	22.10	22.00	23.2
20	16QAM	1	49	22.16	22.12	22.12	22.07	
20	16QAM	1	99	21.94	21.88	21.81	21.72	
20	16QAM	50	0	20.64	20.61	20.58	20.44	22.2
20	16QAM	50	24	20.58	20.60	20.55	20.34	
20	16QAM	50	50	20.50	20.48	20.43	20.31	
20	16QAM	100	0	20.58	20.54	20.52	20.40	
20	64QAM	1	0	21.35	21.45	21.44	21.39	22.2
20	64QAM	1	49	21.34	21.32	21.45	21.32	
20	64QAM	1	99	21.13	21.17	21.08	21.03	
20	64QAM	50	0	19.65	19.63	19.61	19.48	
20	64QAM	50	24	19.61	19.59	19.56	19.34	21.2
20	64QAM	50	50	19.52	19.47	19.44	19.30	
20	64QAM	100	0	19.54	19.52	19.49	19.40	
20	256QAM	1	0	18.20	18.19	18.27	18.23	
20	256QAM	1	49	17.93	17.94	17.98	18.00	19.2
20	256QAM	1	99	18.00	18.04	18.05	18.03	
20	256QAM	50	0	17.41	17.40	17.40	17.37	
20	256QAM	50	24	17.45	17.42	17.39	17.38	19.2
20	256QAM	50	50	17.37	17.41	17.40	17.42	
20	256QAM	100	0	17.39	17.43	17.40	17.41	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.21	22.11	22.00	21.94	23.2
15	QPSK	1	37	22.20	22.10	22.09	22.00	
15	QPSK	1	74	22.04	21.98	21.79	21.73	
15	QPSK	36	0	21.65	21.62	21.54	21.47	23.2
15	QPSK	36	20	21.60	21.55	21.50	21.41	
15	QPSK	36	39	21.54	21.46	21.42	21.33	
15	QPSK	75	0	21.60	21.54	21.51	21.40	
15	16QAM	1	0	22.12	22.19	22.03	22.20	23.2
15	16QAM	1	37	22.17	22.17	22.08	22.07	
15	16QAM	1	74	21.97	22.01	21.78	22.04	
15	16QAM	36	0	20.63	20.60	20.55	20.50	22.2
15	16QAM	36	20	20.63	20.56	20.52	20.44	
15	16QAM	36	39	20.54	20.48	20.42	20.38	
15	16QAM	75	0	20.63	20.57	20.52	20.45	
15	64QAM	1	0	21.50	21.51	21.39	21.38	22.2
15	64QAM	1	37	21.66	21.41	21.54	21.35	
15	64QAM	1	74	21.40	21.31	21.20	21.17	
15	64QAM	36	0	19.67	19.58	19.54	19.51	
15	64QAM	36	20	19.65	19.50	19.49	19.47	21.2
15	64QAM	36	39	19.56	19.47	19.41	19.40	
15	64QAM	75	0	19.56	19.55	19.48	19.41	
15	256QAM	1	0	18.14	18.12	18.17	18.14	
15	256QAM	1	37	17.85	17.85	17.92	17.94	19.2
15	256QAM	1	74	17.91	17.96	17.95	17.98	
15	256QAM	36	0	17.34	17.30	17.34	17.31	
15	256QAM	36	20	17.39	17.32	17.29	17.28	19.2
15	256QAM	36	39	17.32	17.32	17.34	17.34	



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15	256QAM	75	0	17.34	17.38	17.35	17.32	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.16	22.11	22.10	22.04	23.2
10	QPSK	1	25	21.97	21.93	21.91	21.86	
10	QPSK	1	49	21.99	21.92	21.89	21.85	
10	QPSK	25	0	21.65	21.62	21.58	21.51	23.2
10	QPSK	25	12	21.64	21.60	21.53	21.50	
10	QPSK	25	25	21.56	21.52	21.49	21.42	
10	QPSK	50	0	21.65	21.58	21.51	21.44	
10	16QAM	1	0	22.08	22.09	22.15	22.09	23.2
10	16QAM	1	25	21.90	21.93	21.98	21.91	
10	16QAM	1	49	21.89	21.90	21.94	21.83	
10	16QAM	25	0	20.70	20.68	20.66	20.62	22.2
10	16QAM	25	12	20.69	20.64	20.62	20.61	
10	16QAM	25	25	20.63	20.59	20.58	20.53	
10	16QAM	50	0	20.59	20.59	20.52	20.47	
10	64QAM	1	0	21.45	21.62	21.46	21.42	22.2
10	64QAM	1	25	21.25	21.43	21.32	21.17	
10	64QAM	1	49	21.30	21.42	21.30	21.15	
10	64QAM	25	0	19.62	19.61	19.57	19.54	21.2
10	64QAM	25	12	19.58	19.57	19.50	19.49	
10	64QAM	25	25	19.55	19.51	19.43	19.42	
10	64QAM	50	0	19.62	19.59	19.56	19.46	
10	256QAM	1	0	18.10	18.12	18.18	18.17	19.2
10	256QAM	1	25	17.88	17.89	17.88	17.94	
10	256QAM	1	49	17.90	17.94	17.98	17.95	
10	256QAM	25	0	17.31	17.35	17.34	17.32	19.2
10	256QAM	25	12	17.40	17.32	17.33	17.28	
10	256QAM	25	25	17.29	17.35	17.31	17.32	
10	256QAM	50	0	17.30	17.35	17.31	17.32	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.08	22.03	22.02	21.76	23.2
5	QPSK	1	12	21.98	22.12	22.05	21.62	
5	QPSK	1	24	22.06	22.02	21.96	21.74	
5	QPSK	12	0	21.62	21.59	21.56	21.35	23.2
5	QPSK	12	7	21.61	21.54	21.49	21.32	
5	QPSK	12	13	21.59	21.56	21.52	21.32	
5	QPSK	25	0	21.64	21.55	21.49	21.32	
5	16QAM	1	0	22.16	22.10	22.03	21.90	23.2
5	16QAM	1	12	22.02	22.13	22.18	21.72	
5	16QAM	1	24	22.14	22.07	21.93	21.78	
5	16QAM	12	0	20.59	20.55	20.56	20.36	22.2
5	16QAM	12	7	20.61	20.50	20.50	20.36	
5	16QAM	12	13	20.60	20.52	20.53	20.31	
5	16QAM	25	0	20.73	20.62	20.55	20.43	
5	64QAM	1	0	21.37	21.38	21.22	21.15	22.2
5	64QAM	1	12	21.18	21.41	21.42	21.12	
5	64QAM	1	24	21.31	21.34	21.21	21.06	
5	64QAM	12	0	19.61	19.51	19.49	19.33	21.2
5	64QAM	12	7	19.54	19.48	19.46	19.31	
5	64QAM	12	13	19.53	19.52	19.43	19.27	
5	64QAM	25	0	19.58	19.54	19.49	19.31	
5	256QAM	1	0	18.15	18.09	18.22	18.16	19.2
5	256QAM	1	12	17.84	17.89	17.88	17.95	
5	256QAM	1	24	17.90	17.95	17.97	17.98	
5	256QAM	12	0	17.34	17.35	17.34	17.30	19.2
5	256QAM	12	7	17.40	17.35	17.29	17.29	
5	256QAM	12	13	17.29	17.33	17.31	17.36	
5	256QAM	25	0	17.30	17.38	17.32	17.32	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	22.11	22.11	22.22	21.95	23.2
20	QPSK	1	49	22.06	22.11	22.11	21.88	
20	QPSK	1	99	21.84	21.83	21.79	21.64	
20	QPSK	50	0	21.62	21.65	21.71	21.47	23.2
20	QPSK	50	24	21.58	21.55	21.53	21.38	
20	QPSK	50	50	21.51	21.48	21.44	21.31	
20	QPSK	100	0	21.56	21.55	21.51	21.40	
20	16QAM	1	0	22.18	22.18	22.10	22.00	23.2
20	16QAM	1	49	22.16	22.12	22.12	22.07	
20	16QAM	1	99	21.94	21.88	21.81	21.72	
20	16QAM	50	0	20.64	20.61	20.58	20.44	22.2
20	16QAM	50	24	20.58	20.60	20.55	20.34	
20	16QAM	50	50	20.50	20.48	20.43	20.31	
20	16QAM	100	0	20.58	20.54	20.52	20.40	
20	64QAM	1	0	21.35	21.45	21.44	21.39	22.2
20	64QAM	1	49	21.34	21.32	21.45	21.32	
20	64QAM	1	99	21.13	21.17	21.08	21.03	
20	64QAM	50	0	19.65	19.63	19.61	19.48	21.2
20	64QAM	50	24	19.61	19.59	19.56	19.34	
20	64QAM	50	50	19.52	19.47	19.44	19.30	
20	64QAM	100	0	19.54	19.52	19.49	19.40	
20	256QAM	1	0	18.20	18.19	18.27	18.23	19.2
20	256QAM	1	49	17.93	17.94	17.98	18.00	
20	256QAM	1	99	18.00	18.04	18.05	18.03	
20	256QAM	50	0	17.41	17.40	17.40	17.37	19.2
20	256QAM	50	24	17.45	17.42	17.39	17.38	
20	256QAM	50	50	17.37	17.41	17.40	17.42	
20	256QAM	100	0	17.39	17.43	17.40	17.41	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.21	22.11	22.00	21.94	23.2
15	QPSK	1	37	22.20	22.10	22.09	22.00	
15	QPSK	1	74	22.04	21.98	21.79	21.73	
15	QPSK	36	0	21.65	21.62	21.54	21.47	23.2
15	QPSK	36	20	21.60	21.55	21.50	21.41	
15	QPSK	36	39	21.54	21.46	21.42	21.33	
15	QPSK	75	0	21.60	21.54	21.51	21.40	
15	16QAM	1	0	22.12	22.19	22.03	22.20	23.2
15	16QAM	1	37	22.17	22.17	22.08	22.07	
15	16QAM	1	74	21.97	22.01	21.78	22.04	
15	16QAM	36	0	20.63	20.60	20.55	20.50	22.2
15	16QAM	36	20	20.63	20.56	20.52	20.44	
15	16QAM	36	39	20.54	20.48	20.42	20.38	
15	16QAM	75	0	20.63	20.57	20.52	20.45	
15	64QAM	1	0	21.50	21.51	21.39	21.38	22.2
15	64QAM	1	37	21.66	21.41	21.54	21.35	
15	64QAM	1	74	21.40	21.31	21.20	21.17	
15	64QAM	36	0	19.67	19.58	19.54	19.51	21.2
15	64QAM	36	20	19.65	19.50	19.49	19.47	
15	64QAM	36	39	19.56	19.47	19.41	19.40	
15	64QAM	75	0	19.56	19.55	19.48	19.41	
15	256QAM	1	0	18.14	18.12	18.17	18.14	19.2
15	256QAM	1	37	17.85	17.85	17.92	17.94	
15	256QAM	1	74	17.91	17.96	17.95	17.98	
15	256QAM	36	0	17.34	17.30	17.34	17.31	19.2
15	256QAM	36	20	17.39	17.32	17.29	17.28	
15	256QAM	36	39	17.32	17.32	17.34	17.34	



FCC SAR TEST REPORT

Report No. :FA451606B

15	256QAM	75	0	17.34	17.38	17.35	17.32	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.16	22.11	22.10	22.04	23.2
10	QPSK	1	25	21.97	21.93	21.91	21.86	
10	QPSK	1	49	21.99	21.92	21.89	21.85	
10	QPSK	25	0	21.65	21.62	21.58	21.51	23.2
10	QPSK	25	12	21.64	21.60	21.53	21.50	
10	QPSK	25	25	21.56	21.52	21.49	21.42	
10	QPSK	50	0	21.65	21.58	21.51	21.44	
10	16QAM	1	0	22.08	22.09	22.15	22.09	23.2
10	16QAM	1	25	21.90	21.93	21.98	21.91	
10	16QAM	1	49	21.89	21.90	21.94	21.83	
10	16QAM	25	0	20.70	20.68	20.66	20.62	22.2
10	16QAM	25	12	20.69	20.64	20.62	20.61	
10	16QAM	25	25	20.63	20.59	20.58	20.53	
10	16QAM	50	0	20.59	20.59	20.52	20.47	
10	64QAM	1	0	21.45	21.62	21.46	21.42	22.2
10	64QAM	1	25	21.25	21.43	21.32	21.17	
10	64QAM	1	49	21.30	21.42	21.30	21.15	
10	64QAM	25	0	19.62	19.61	19.57	19.54	21.2
10	64QAM	25	12	19.58	19.57	19.50	19.49	
10	64QAM	25	25	19.55	19.51	19.43	19.42	
10	64QAM	50	0	19.62	19.59	19.56	19.46	
10	256QAM	1	0	18.10	18.12	18.18	18.17	19.2
10	256QAM	1	25	17.88	17.89	17.88	17.94	
10	256QAM	1	49	17.90	17.94	17.98	17.95	
10	256QAM	25	0	17.31	17.35	17.34	17.32	19.2
10	256QAM	25	12	17.40	17.32	17.33	17.28	
10	256QAM	25	25	17.29	17.35	17.31	17.32	
10	256QAM	50	0	17.30	17.35	17.31	17.32	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.08	22.03	22.02	21.76	23.2
5	QPSK	1	12	21.98	22.12	22.05	21.62	
5	QPSK	1	24	22.06	22.02	21.96	21.74	
5	QPSK	12	0	21.62	21.59	21.56	21.35	23.2
5	QPSK	12	7	21.61	21.54	21.49	21.32	
5	QPSK	12	13	21.59	21.56	21.52	21.32	
5	QPSK	25	0	21.64	21.55	21.49	21.32	
5	16QAM	1	0	22.16	22.10	22.03	21.90	23.2
5	16QAM	1	12	22.02	22.13	22.18	21.72	
5	16QAM	1	24	22.14	22.07	21.93	21.78	
5	16QAM	12	0	20.59	20.55	20.56	20.36	22.2
5	16QAM	12	7	20.61	20.50	20.50	20.36	
5	16QAM	12	13	20.60	20.52	20.53	20.31	
5	16QAM	25	0	20.73	20.62	20.55	20.43	
5	64QAM	1	0	21.37	21.38	21.22	21.15	22.2
5	64QAM	1	12	21.18	21.41	21.42	21.12	
5	64QAM	1	24	21.31	21.34	21.21	21.06	
5	64QAM	12	0	19.61	19.51	19.49	19.33	21.2
5	64QAM	12	7	19.54	19.48	19.46	19.31	
5	64QAM	12	13	19.53	19.52	19.43	19.27	
5	64QAM	25	0	19.58	19.54	19.49	19.31	
5	256QAM	1	0	18.15	18.09	18.22	18.16	19.2
5	256QAM	1	12	17.84	17.89	17.88	17.95	
5	256QAM	1	24	17.90	17.95	17.97	17.98	
5	256QAM	12	0	17.34	17.35	17.34	17.30	19.2
5	256QAM	12	7	17.40	17.35	17.29	17.29	
5	256QAM	12	13	17.29	17.33	17.31	17.36	
5	256QAM	25	0	17.30	17.38	17.32	17.32	

<5G NR Conducted Power>
General Note:

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below
 - a. For DFT-OFDM output power measurement, full measurement was done for Pi/2 BPSK and QPSK and for the largest supported bandwidth, repeat test for 16QAM/64QAM/256QAM under 1RB 1Offset configuration. For smaller bandwidth, measure conducted power for Pi/2 BPSK and 1RB 1Offset configuration.
 - b. According to the tune-up, CP-OFDM output power is not ½ dB higher than DFT-OFDM mode, and the reported SAR of DFT-OFDM mode reported SAR is ≤ 1.45 W/kg, SAR test and thus conducted power for CP-OFDM mode is not required.
 - c. To start SAR test for the largest channel bandwidth for Pi/2 BPSK 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. Also do SAR test for 50% RB allocation for Pi/2 BPSK SAR testing using 1RB Pi/2 BPSK allocation procedure
 - d. For Pi/2 BPSK with 100% RB allocation, SAR test 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.
 - e. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not ½ dB higher than the same configuration in Pi/2 BPSK, also reported SAR for the Pi/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - f. Smaller bandwidth output power for each RB allocation configuration for this device is 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
2. Due to test setup limitations, SAR testing for NR TDD power class 3 was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. And only for TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission
3. For NR FDD was establishing connections via a base station simulator to use for output power measurement and SAR testing.

<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	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM		≤ 2.5	
CP-OFDM	256 QAM		≤ 4.5	
	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	



TX0 Output Power

<FR1 n2_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.68	24.74	24.58	25.7
20	PI/2 BPSK	1	53	24.66	24.72	24.61	
20	PI/2 BPSK	1	104	24.60	24.70	24.53	
20	PI/2 BPSK	50	0	24.04	24.04	23.94	25.2
20	PI/2 BPSK	50	28	24.54	24.55	24.38	25.7
20	PI/2 BPSK	50	56	23.99	24.02	23.91	25.2
20	PI/2 BPSK	100	0	23.95	24.03	23.93	
20	QPSK	1	1	24.54	24.63	24.43	25.7
20	QPSK	1	53	24.53	24.59	24.44	
20	QPSK	1	104	24.32	24.42	24.31	
20	QPSK	50	0	23.51	23.55	23.37	24.7
20	QPSK	50	28	24.56	24.57	24.42	25.7
20	QPSK	50	56	23.51	23.55	23.38	24.7
20	QPSK	100	0	23.56	23.56	23.40	
20	16QAM	1	1	23.58	23.61	23.45	24.7
20	64QAM	1	1	22.00	22.05	21.89	23.2
20	256QAM	1	1	20.14	20.21	20.09	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.58	24.65	24.53	25.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.64	24.66	24.54	25.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.60	24.69	24.52	25.7



<FR1 n2_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.51	23.57	23.52	24.3
20	PI/2 BPSK	1	53	23.46	23.51	23.42	
20	PI/2 BPSK	1	104	23.30	23.40	23.30	
20	PI/2 BPSK	50	0	23.39	23.44	23.39	24.3
20	PI/2 BPSK	50	28	23.36	23.43	23.37	24.3
20	PI/2 BPSK	50	56	23.26	23.40	23.33	24.3
20	PI/2 BPSK	100	0	23.45	23.48	23.45	
20	QPSK	1	1	23.35	23.43	23.31	24.3
20	QPSK	1	53	23.36	23.46	23.40	
20	QPSK	1	104	23.27	23.24	23.24	
20	QPSK	50	0	23.24	23.37	23.28	24.3
20	QPSK	50	28	23.29	23.33	23.26	24.3
20	QPSK	50	56	23.20	23.30	23.19	24.3
20	QPSK	100	0	23.34	23.47	23.38	
20	16QAM	1	1	23.47	23.52	23.48	24.3
20	64QAM	1	1	22.01	22.03	21.93	23.2
20	256QAM	1	1	20.05	20.16	20.05	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.49	23.52	23.48	24.3
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.43	23.54	23.49	24.3
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.44	23.50	23.44	24.3



<FR1 n2_Ant 2_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.05	22.06	21.99	22.1
20	PI/2 BPSK	1	53	22.22	22.23	22.18	
20	PI/2 BPSK	1	104	21.88	21.89	21.84	
20	PI/2 BPSK	50	0	21.93	21.98	21.92	22.1
20	PI/2 BPSK	50	28	21.98	22.00	21.92	22.1
20	PI/2 BPSK	50	56	21.93	21.97	21.90	22.1
20	PI/2 BPSK	100	0	21.92	21.95	21.88	
20	QPSK	1	1	21.93	21.95	21.90	22.1
20	QPSK	1	53	22.03	22.07	22.01	
20	QPSK	1	104	21.89	21.92	21.86	
20	QPSK	50	0	21.90	21.95	21.88	22.1
20	QPSK	50	28	21.98	22.00	21.95	22.1
20	QPSK	50	56	21.95	21.96	21.91	22.1
20	QPSK	100	0	21.96	22.00	21.93	
20	16QAM	1	1	22.10	22.10	22.07	22.1
20	64QAM	1	1	22.01	22.02	21.97	22.1
20	256QAM	1	1	20.02	20.04	19.96	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	21.97	21.97	21.89	22.1
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	21.99	21.99	21.94	22.1
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	21.98	22.01	21.91	22.1



<FR1 n2_Ant 2_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.05	22.06	21.99	22.1
20	PI/2 BPSK	1	53	22.22	22.23	22.18	
20	PI/2 BPSK	1	104	21.88	21.89	21.84	
20	PI/2 BPSK	50	0	21.93	21.98	21.92	22.1
20	PI/2 BPSK	50	28	21.98	22.00	21.92	22.1
20	PI/2 BPSK	50	56	21.93	21.97	21.90	22.1
20	PI/2 BPSK	100	0	21.92	21.95	21.88	
20	QPSK	1	1	21.93	21.95	21.90	22.1
20	QPSK	1	53	22.03	22.07	22.01	
20	QPSK	1	104	21.89	21.92	21.86	
20	QPSK	50	0	21.90	21.95	21.88	22.1
20	QPSK	50	28	21.98	22.00	21.95	22.1
20	QPSK	50	56	21.95	21.96	21.91	22.1
20	QPSK	100	0	21.96	22.00	21.93	
20	16QAM	1	1	22.10	22.10	22.07	22.1
20	64QAM	1	1	22.01	22.02	21.97	22.1
20	256QAM	1	1	20.02	20.04	19.96	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	21.97	21.97	21.89	22.1
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	21.99	21.99	21.94	22.1
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	21.98	22.01	21.91	22.1



<FR1 n2_Ant 2_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.05	22.06	21.99	22.1
20	PI/2 BPSK	1	53	22.22	22.23	22.18	
20	PI/2 BPSK	1	104	21.88	21.89	21.84	
20	PI/2 BPSK	50	0	21.93	21.98	21.92	22.1
20	PI/2 BPSK	50	28	21.98	22.00	21.92	22.1
20	PI/2 BPSK	50	56	21.93	21.97	21.90	22.1
20	PI/2 BPSK	100	0	21.92	21.95	21.88	
20	QPSK	1	1	21.93	21.95	21.90	22.1
20	QPSK	1	53	22.03	22.07	22.01	
20	QPSK	1	104	21.89	21.92	21.86	
20	QPSK	50	0	21.90	21.95	21.88	22.1
20	QPSK	50	28	21.98	22.00	21.95	22.1
20	QPSK	50	56	21.95	21.96	21.91	22.1
20	QPSK	100	0	21.96	22.00	21.93	
20	16QAM	1	1	22.10	22.10	22.07	22.1
20	64QAM	1	1	22.01	22.02	21.97	22.1
20	256QAM	1	1	20.02	20.04	19.96	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	21.97	21.97	21.89	22.1
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	21.99	21.99	21.94	22.1
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	21.98	22.01	21.91	22.1



<FR1 n5_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	25.7
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	25.08	25.18	25.11	
20	PI/2 BPSK	1	53	25.07	25.16	25.12	25.2
20	PI/2 BPSK	1	104	24.93	25.02	24.96	
20	PI/2 BPSK	50	0	24.59	24.63	24.62	
20	PI/2 BPSK	50	28	25.05	25.13	25.03	25.2
20	PI/2 BPSK	50	56	24.51	24.60	24.56	
20	PI/2 BPSK	100	0	24.57	24.65	24.56	
20	QPSK	1	1	25.08	25.12	25.08	24.7
20	QPSK	1	53	25.10	25.10	25.09	
20	QPSK	1	104	25.02	25.08	25.08	
20	QPSK	50	0	24.05	24.13	24.08	25.7
20	QPSK	50	28	25.08	25.15	25.06	
20	QPSK	50	56	24.04	24.13	24.06	
20	QPSK	100	0	24.11	24.14	24.11	23.2
20	16QAM	1	1	24.01	24.01	23.99	
20	64QAM	1	1	22.83	22.88	22.78	
20	256QAM	1	1	20.35	20.41	20.35	21.2
Channel				166300	167300	168300	25.7
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	25.06	25.16	25.08	
Channel				165800	167300	168800	25.7
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	25.06	25.15	25.04	
Channel				165300	167300	169300	25.7
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	25.01	25.14	25.10	



<FR1 n5_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	25.5
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	25.08	25.18	25.11	
20	PI/2 BPSK	1	53	25.07	25.16	25.12	25.2
20	PI/2 BPSK	1	104	24.93	25.02	24.96	
20	PI/2 BPSK	50	0	24.59	24.63	24.62	
20	PI/2 BPSK	50	28	25.05	25.13	25.03	25.2
20	PI/2 BPSK	50	56	24.51	24.60	24.56	
20	PI/2 BPSK	100	0	24.57	24.65	24.56	
20	QPSK	1	1	25.08	25.12	25.08	24.7
20	QPSK	1	53	25.10	25.10	25.09	
20	QPSK	1	104	25.02	25.08	25.08	
20	QPSK	50	0	24.05	24.13	24.08	24.7
20	QPSK	50	28	25.08	25.15	25.06	
20	QPSK	50	56	24.04	24.13	24.06	
20	QPSK	100	0	24.11	24.14	24.11	23.2
20	16QAM	1	1	24.01	24.01	23.99	
20	64QAM	1	1	22.83	22.88	22.78	
20	256QAM	1	1	20.35	20.41	20.35	21.2
Channel				166300	167300	168300	25.5
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	25.06	25.16	25.08	
Channel				165800	167300	168800	25.5
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	25.06	25.15	25.04	
Channel				165300	167300	169300	25.5
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	25.01	25.14	25.10	



<FR1 n5_Ant 0_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	25.7
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	25.08	25.18	25.11	
20	PI/2 BPSK	1	53	25.07	25.16	25.12	25.2
20	PI/2 BPSK	1	104	24.93	25.02	24.96	
20	PI/2 BPSK	50	0	24.59	24.63	24.62	
20	PI/2 BPSK	50	28	25.05	25.13	25.03	25.2
20	PI/2 BPSK	50	56	24.51	24.60	24.56	
20	PI/2 BPSK	100	0	24.57	24.65	24.56	
20	QPSK	1	1	25.08	25.12	25.08	25.7
20	QPSK	1	53	25.10	25.10	25.09	
20	QPSK	1	104	25.02	25.08	25.08	
20	QPSK	50	0	24.05	24.13	24.08	24.7
20	QPSK	50	28	25.08	25.15	25.06	25.7
20	QPSK	50	56	24.04	24.13	24.06	24.7
20	QPSK	100	0	24.11	24.14	24.11	
20	16QAM	1	1	24.01	24.01	23.99	
20	64QAM	1	1	22.83	22.88	22.78	23.2
20	256QAM	1	1	20.35	20.41	20.35	21.2
Channel				166300	167300	168300	25.7
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	25.06	25.16	25.08	
Channel				165800	167300	168800	25.7
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	25.06	25.15	25.04	
Channel				165300	167300	169300	25.7
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	25.01	25.14	25.10	



<FR1 n5_Ant 0_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	25.7
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	25.08	25.18	25.11	
20	PI/2 BPSK	1	53	25.07	25.16	25.12	25.2
20	PI/2 BPSK	1	104	24.93	25.02	24.96	
20	PI/2 BPSK	50	0	24.59	24.63	24.62	
20	PI/2 BPSK	50	28	25.05	25.13	25.03	25.2
20	PI/2 BPSK	50	56	24.51	24.60	24.56	
20	PI/2 BPSK	100	0	24.57	24.65	24.56	
20	QPSK	1	1	25.08	25.12	25.08	25.7
20	QPSK	1	53	25.10	25.10	25.09	
20	QPSK	1	104	25.02	25.08	25.08	
20	QPSK	50	0	24.05	24.13	24.08	24.7
20	QPSK	50	28	25.08	25.15	25.06	25.7
20	QPSK	50	56	24.04	24.13	24.06	24.7
20	QPSK	100	0	24.11	24.14	24.11	
20	16QAM	1	1	24.01	24.01	23.99	
20	64QAM	1	1	22.83	22.88	22.78	23.2
20	256QAM	1	1	20.35	20.41	20.35	21.2
Channel				166300	167300	168300	25.7
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	25.06	25.16	25.08	
Channel				165800	167300	168800	25.7
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	25.06	25.15	25.04	
Channel				165300	167300	169300	25.7
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	25.01	25.14	25.10	



<FR1 n5_Ant 0_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	25.7
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	25.08	25.18	25.11	
20	PI/2 BPSK	1	53	25.07	25.16	25.12	25.2
20	PI/2 BPSK	1	104	24.93	25.02	24.96	
20	PI/2 BPSK	50	0	24.59	24.63	24.62	
20	PI/2 BPSK	50	28	25.05	25.13	25.03	25.2
20	PI/2 BPSK	50	56	24.51	24.60	24.56	
20	PI/2 BPSK	100	0	24.57	24.65	24.56	
20	QPSK	1	1	25.08	25.12	25.08	25.7
20	QPSK	1	53	25.10	25.10	25.09	
20	QPSK	1	104	25.02	25.08	25.08	
20	QPSK	50	0	24.05	24.13	24.08	24.7
20	QPSK	50	28	25.08	25.15	25.06	25.7
20	QPSK	50	56	24.04	24.13	24.06	24.7
20	QPSK	100	0	24.11	24.14	24.11	
20	16QAM	1	1	24.01	24.01	23.99	
20	64QAM	1	1	22.83	22.88	22.78	23.2
20	256QAM	1	1	20.35	20.41	20.35	21.2
Channel				166300	167300	168300	25.7
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	25.06	25.16	25.08	
Channel				165800	167300	168800	25.7
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	25.06	25.15	25.04	
Channel				165300	167300	169300	25.7
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	25.01	25.14	25.10	



<FR1 n7_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	25.4
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	23.65	23.73	23.66	
50	PI/2 BPSK	1	135	23.59	23.69	23.58	25.2
50	PI/2 BPSK	1	268	23.43	23.53	23.43	
50	PI/2 BPSK	135	0	23.52	23.62	23.56	
50	PI/2 BPSK	135	68	23.55	23.63	23.56	25.2
50	PI/2 BPSK	135	135	23.44	23.55	23.46	
50	PI/2 BPSK	270	0	23.59	23.68	23.59	
50	QPSK	1	1	23.49	23.58	23.51	25.4
50	QPSK	1	135	23.51	23.62	23.53	
50	QPSK	1	268	23.45	23.41	23.44	
50	QPSK	135	0	23.44	23.54	23.43	24.7
50	QPSK	135	68	23.43	23.49	23.44	25.4
50	QPSK	135	135	23.37	23.42	23.36	24.7
50	QPSK	270	0	23.54	23.62	23.56	
50	16QAM	1	1	23.64	23.72	23.67	
50	64QAM	1	1	22.13	22.21	22.09	23.2
50	256QAM	1	1	20.24	20.31	20.24	21.2
Channel				504000	507000	510000	25.4
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	23.59	23.63	23.63	
Channel				503000	507000	511000	25.4
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	23.53	23.62	23.59	
Channel				502500	507000	511500	25.4
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	23.54	23.64	23.63	
Channel				502000	507000	512000	25.4
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	23.60	23.69	23.54	
Channel				501500	507000	512500	25.4
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.53	23.61	23.57	
Channel				501000	507000	513000	25.4
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.60	23.61	23.61	
Channel				500500	507000	513500	25.4
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.58	23.65	23.62	



<FR1 n7_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	23.9
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	23.65	23.73	23.66	
50	PI/2 BPSK	1	135	23.59	23.69	23.58	23.9
50	PI/2 BPSK	1	268	23.43	23.53	23.43	
50	PI/2 BPSK	135	0	23.52	23.62	23.56	
50	PI/2 BPSK	135	68	23.55	23.63	23.56	23.9
50	PI/2 BPSK	135	135	23.44	23.55	23.46	23.9
50	PI/2 BPSK	270	0	23.59	23.68	23.59	
50	QPSK	1	1	23.49	23.58	23.51	
50	QPSK	1	135	23.51	23.62	23.53	23.9
50	QPSK	1	268	23.45	23.41	23.44	
50	QPSK	135	0	23.44	23.54	23.43	
50	QPSK	135	68	23.43	23.49	23.44	23.9
50	QPSK	135	135	23.37	23.42	23.36	23.9
50	QPSK	270	0	23.54	23.62	23.56	
50	16QAM	1	1	23.64	23.72	23.67	
50	64QAM	1	1	22.13	22.21	22.09	23.2
50	256QAM	1	1	20.24	20.31	20.24	21.2
Channel				504000	507000	510000	23.9
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	23.59	23.63	23.63	
Channel				503000	507000	511000	23.9
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	23.53	23.62	23.59	
Channel				502500	507000	511500	23.9
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	23.54	23.64	23.63	
Channel				502000	507000	512000	23.9
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	23.60	23.69	23.54	
Channel				501500	507000	512500	23.9
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.53	23.61	23.57	
Channel				501000	507000	513000	23.9
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.60	23.61	23.61	
Channel				500500	507000	513500	23.9
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.58	23.65	23.62	



<FR1 n7_Ant 2_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	21.3
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	21.06	21.09	21.08	
50	PI/2 BPSK	1	135	20.90	20.95	20.93	21.3
50	PI/2 BPSK	1	268	20.78	20.82	20.79	
50	PI/2 BPSK	135	0	20.74	20.79	20.77	
50	PI/2 BPSK	135	68	20.79	20.82	20.78	21.3
50	PI/2 BPSK	135	135	20.61	20.65	20.63	21.3
50	PI/2 BPSK	270	0	20.75	20.79	20.78	
50	QPSK	1	1	20.85	20.90	20.86	
50	QPSK	1	135	20.67	20.72	20.71	21.3
50	QPSK	1	268	20.63	20.68	20.66	
50	QPSK	135	0	20.78	20.81	20.80	
50	QPSK	135	68	20.73	20.76	20.73	21.3
50	QPSK	135	135	20.63	20.67	20.63	21.3
50	QPSK	270	0	20.75	20.79	20.76	
50	16QAM	1	1	20.70	20.73	20.69	
50	64QAM	1	1	20.75	20.80	20.78	21.3
50	256QAM	1	1	20.45	20.48	20.47	21.2
Channel				504000	507000	510000	21.3
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	20.86	20.87	20.85	
Channel				503000	507000	511000	21.3
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	20.86	20.87	20.84	
Channel				502500	507000	511500	21.3
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	20.82	20.89	20.85	
Channel				502000	507000	512000	21.3
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	20.85	20.88	20.84	
Channel				501500	507000	512500	21.3
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	20.82	20.88	20.84	
Channel				501000	507000	513000	21.3
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	20.83	20.89	20.88	
Channel				500500	507000	513500	21.3
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	20.83	20.85	20.88	



<FR1 n7_Ant 2_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	22.0
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	21.06	21.09	21.08	
50	PI/2 BPSK	1	135	20.90	20.95	20.93	22.0
50	PI/2 BPSK	1	268	20.78	20.82	20.79	
50	PI/2 BPSK	135	0	20.74	20.79	20.77	
50	PI/2 BPSK	135	68	20.79	20.82	20.78	22.0
50	PI/2 BPSK	135	135	20.61	20.65	20.63	22.0
50	PI/2 BPSK	270	0	20.75	20.79	20.78	
50	QPSK	1	1	20.85	20.90	20.86	
50	QPSK	1	135	20.67	20.72	20.71	22.0
50	QPSK	1	268	20.63	20.68	20.66	
50	QPSK	135	0	20.78	20.81	20.80	
50	QPSK	135	68	20.73	20.76	20.73	22.0
50	QPSK	135	135	20.63	20.67	20.63	22.0
50	QPSK	270	0	20.75	20.79	20.76	
50	16QAM	1	1	20.70	20.73	20.69	
50	64QAM	1	1	20.75	20.80	20.78	22.0
50	256QAM	1	1	20.45	20.48	20.47	21.2
Channel				504000	507000	510000	22.0
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	20.86	20.87	20.85	
Channel				503000	507000	511000	22.0
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	20.86	20.87	20.84	
Channel				502500	507000	511500	22.0
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	20.82	20.89	20.85	
Channel				502000	507000	512000	22.0
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	20.85	20.88	20.84	
Channel				501500	507000	512500	22.0
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	20.82	20.88	20.84	
Channel				501000	507000	513000	22.0
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	20.83	20.89	20.88	
Channel				500500	507000	513500	22.0
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	20.83	20.85	20.88	



<FR1 n7_Ant 2_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	21.3
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	21.06	21.09	21.08	
50	PI/2 BPSK	1	135	20.90	20.95	20.93	21.3
50	PI/2 BPSK	1	268	20.78	20.82	20.79	
50	PI/2 BPSK	135	0	20.74	20.79	20.77	
50	PI/2 BPSK	135	68	20.79	20.82	20.78	21.3
50	PI/2 BPSK	135	135	20.61	20.65	20.63	21.3
50	PI/2 BPSK	270	0	20.75	20.79	20.78	
50	QPSK	1	1	20.85	20.90	20.86	
50	QPSK	1	135	20.67	20.72	20.71	21.3
50	QPSK	1	268	20.63	20.68	20.66	
50	QPSK	135	0	20.78	20.81	20.80	
50	QPSK	135	68	20.73	20.76	20.73	21.3
50	QPSK	135	135	20.63	20.67	20.63	21.3
50	QPSK	270	0	20.75	20.79	20.76	
50	16QAM	1	1	20.70	20.73	20.69	
50	64QAM	1	1	20.75	20.80	20.78	21.3
50	256QAM	1	1	20.45	20.48	20.47	21.2
Channel				504000	507000	510000	21.3
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	20.86	20.87	20.85	
Channel				503000	507000	511000	21.3
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	20.86	20.87	20.84	
Channel				502500	507000	511500	21.3
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	20.82	20.89	20.85	
Channel				502000	507000	512000	21.3
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	20.85	20.88	20.84	
Channel				501500	507000	512500	21.3
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	20.82	20.88	20.84	
Channel				501000	507000	513000	21.3
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	20.83	20.89	20.88	
Channel				500500	507000	513500	21.3
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	20.83	20.85	20.88	



<FR1 n12_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	25.7
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.80	24.81	24.76	
15	PI/2 BPSK	1	40	24.65	24.75	24.70	25.2
15	PI/2 BPSK	1	77	24.70	24.80	24.73	
15	PI/2 BPSK	36	0	24.32	24.32	24.24	
15	PI/2 BPSK	36	22	24.72	24.80	24.70	25.2
15	PI/2 BPSK	36	43	24.35	24.36	24.34	
15	PI/2 BPSK	75	0	24.32	24.35	24.27	
15	QPSK	1	1	24.70	24.80	24.76	25.7
15	QPSK	1	40	24.75	24.78	24.76	
15	QPSK	1	77	24.69	24.79	24.78	
15	QPSK	36	0	23.71	23.81	23.73	24.7
15	QPSK	36	22	24.80	24.80	24.72	
15	QPSK	36	43	23.85	23.88	23.83	
15	QPSK	75	0	23.83	23.84	23.78	23.2
15	16QAM	1	1	23.85	23.87	23.80	
15	64QAM	1	1	22.11	22.21	22.14	
15	256QAM	1	1	20.33	20.33	20.24	21.2
Channel				140800	141500	142200	25.7
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.75	24.78	24.73	
Channel				140300	141500	142700	25.7
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.79	24.80	24.71	

**<FR1 n12_Ant 0_Index 3>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.80	24.81	24.76	
15	PI/2 BPSK	1	40	24.65	24.75	24.70	25.7
15	PI/2 BPSK	1	77	24.70	24.80	24.73	
15	PI/2 BPSK	36	0	24.32	24.32	24.24	25.2
15	PI/2 BPSK	36	22	24.72	24.80	24.70	25.7
15	PI/2 BPSK	36	43	24.35	24.36	24.34	25.2
15	PI/2 BPSK	75	0	24.32	24.35	24.27	
15	QPSK	1	1	24.70	24.80	24.76	
15	QPSK	1	40	24.75	24.78	24.76	25.7
15	QPSK	1	77	24.69	24.79	24.78	
15	QPSK	36	0	23.71	23.81	23.73	24.7
15	QPSK	36	22	24.80	24.80	24.72	25.7
15	QPSK	36	43	23.85	23.88	23.83	24.7
15	QPSK	75	0	23.83	23.84	23.78	
15	16QAM	1	1	23.85	23.87	23.80	24.7
15	64QAM	1	1	22.11	22.21	22.14	23.2
15	256QAM	1	1	20.33	20.33	20.24	21.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.75	24.78	24.73	25.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.79	24.80	24.71	25.7

<FR1 n12_Ant 0_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.80	24.81	24.76	25.7
15	PI/2 BPSK	1	40	24.65	24.75	24.70	
15	PI/2 BPSK	1	77	24.70	24.80	24.73	
15	PI/2 BPSK	36	0	24.32	24.32	24.24	25.2
15	PI/2 BPSK	36	22	24.72	24.80	24.70	25.7
15	PI/2 BPSK	36	43	24.35	24.36	24.34	25.2
15	PI/2 BPSK	75	0	24.32	24.35	24.27	
15	QPSK	1	1	24.70	24.80	24.76	
15	QPSK	1	40	24.75	24.78	24.76	25.7
15	QPSK	1	77	24.69	24.79	24.78	
15	QPSK	36	0	23.71	23.81	23.73	24.7
15	QPSK	36	22	24.80	24.80	24.72	25.7
15	QPSK	36	43	23.85	23.88	23.83	24.7
15	QPSK	75	0	23.83	23.84	23.78	
15	16QAM	1	1	23.85	23.87	23.80	24.7
15	64QAM	1	1	22.11	22.21	22.14	23.2
15	256QAM	1	1	20.33	20.33	20.24	21.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.75	24.78	24.73	25.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.79	24.80	24.71	25.7

**<FR1 n12_Ant 0_Index 5>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.80	24.81	24.76	
15	PI/2 BPSK	1	40	24.65	24.75	24.70	25.7
15	PI/2 BPSK	1	77	24.70	24.80	24.73	
15	PI/2 BPSK	36	0	24.32	24.32	24.24	25.2
15	PI/2 BPSK	36	22	24.72	24.80	24.70	25.7
15	PI/2 BPSK	36	43	24.35	24.36	24.34	25.2
15	PI/2 BPSK	75	0	24.32	24.35	24.27	
15	QPSK	1	1	24.70	24.80	24.76	
15	QPSK	1	40	24.75	24.78	24.76	25.7
15	QPSK	1	77	24.69	24.79	24.78	
15	QPSK	36	0	23.71	23.81	23.73	24.7
15	QPSK	36	22	24.80	24.80	24.72	25.7
15	QPSK	36	43	23.85	23.88	23.83	24.7
15	QPSK	75	0	23.83	23.84	23.78	
15	16QAM	1	1	23.85	23.87	23.80	24.7
15	64QAM	1	1	22.11	22.21	22.14	23.2
15	256QAM	1	1	20.33	20.33	20.24	21.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.75	24.78	24.73	25.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.79	24.80	24.71	25.7

<FR1 n12_Ant 0_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.80	24.81	24.76	
15	PI/2 BPSK	1	40	24.65	24.75	24.70	25.7
15	PI/2 BPSK	1	77	24.70	24.80	24.73	
15	PI/2 BPSK	36	0	24.32	24.32	24.24	25.2
15	PI/2 BPSK	36	22	24.72	24.80	24.70	25.7
15	PI/2 BPSK	36	43	24.35	24.36	24.34	25.2
15	PI/2 BPSK	75	0	24.32	24.35	24.27	
15	QPSK	1	1	24.70	24.80	24.76	
15	QPSK	1	40	24.75	24.78	24.76	25.7
15	QPSK	1	77	24.69	24.79	24.78	
15	QPSK	36	0	23.71	23.81	23.73	24.7
15	QPSK	36	22	24.80	24.80	24.72	25.7
15	QPSK	36	43	23.85	23.88	23.83	24.7
15	QPSK	75	0	23.83	23.84	23.78	
15	16QAM	1	1	23.85	23.87	23.80	24.7
15	64QAM	1	1	22.11	22.21	22.14	23.2
15	256QAM	1	1	20.33	20.33	20.24	21.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.75	24.78	24.73	25.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.79	24.80	24.71	25.7



<FR1 n14_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.90		25.7
10	PI/2 BPSK	1	26		24.88		
10	PI/2 BPSK	1	50		24.84		
10	PI/2 BPSK	25	0		24.39		25.2
10	PI/2 BPSK	25	14		24.88		25.7
10	PI/2 BPSK	25	27		24.40		25.2
10	PI/2 BPSK	50	0		24.36		
10	QPSK	1	1		24.89		25.7
10	QPSK	1	26		24.89		
10	QPSK	1	50		24.84		
10	QPSK	25	0		23.87		24.7
10	QPSK	25	14		24.87		25.7
10	QPSK	25	27		23.89		24.7
10	QPSK	50	0		23.89		
10	16QAM	1	1		23.89		24.7
10	64QAM	1	1		22.28		23.2
10	256QAM	1	1		20.32		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.80	24.85	24.81	25.7

**<FR1 n14_Ant 0_Index 3>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.90		25.2
10	PI/2 BPSK	1	26		24.88		
10	PI/2 BPSK	1	50		24.84		
10	PI/2 BPSK	25	0		24.39		25.2
10	PI/2 BPSK	25	14		24.88		25.2
10	PI/2 BPSK	25	27		24.40		25.2
10	PI/2 BPSK	50	0		24.36		
10	QPSK	1	1		24.89		25.2
10	QPSK	1	26		24.89		
10	QPSK	1	50		24.84		
10	QPSK	25	0		23.87		24.7
10	QPSK	25	14		24.87		25.2
10	QPSK	25	27		23.89		24.7
10	QPSK	50	0		23.89		
10	16QAM	1	1		23.89		24.7
10	64QAM	1	1		22.28		23.2
10	256QAM	1	1		20.32		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.80	24.85	24.81	25.2

<FR1 n14_Ant 0_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.90		25.3
10	PI/2 BPSK	1	26		24.88		
10	PI/2 BPSK	1	50		24.84		
10	PI/2 BPSK	25	0		24.39		25.2
10	PI/2 BPSK	25	14		24.88		25.3
10	PI/2 BPSK	25	27		24.40		25.2
10	PI/2 BPSK	50	0		24.36		
10	QPSK	1	1		24.89		25.3
10	QPSK	1	26		24.89		
10	QPSK	1	50		24.84		
10	QPSK	25	0		23.87		24.7
10	QPSK	25	14		24.87		25.3
10	QPSK	25	27		23.89		24.7
10	QPSK	50	0		23.89		
10	16QAM	1	1		23.89		24.7
10	64QAM	1	1		22.28		23.2
10	256QAM	1	1		20.32		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.80	24.85	24.81	25.3



<FR1 n14_Ant 0_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.90		25.7
10	PI/2 BPSK	1	26		24.88		
10	PI/2 BPSK	1	50		24.84		
10	PI/2 BPSK	25	0		24.39		25.2
10	PI/2 BPSK	25	14		24.88		25.7
10	PI/2 BPSK	25	27		24.40		25.2
10	PI/2 BPSK	50	0		24.36		
10	QPSK	1	1		24.89		25.7
10	QPSK	1	26		24.89		
10	QPSK	1	50		24.84		
10	QPSK	25	0		23.87		24.7
10	QPSK	25	14		24.87		25.7
10	QPSK	25	27		23.89		24.7
10	QPSK	50	0		23.89		
10	16QAM	1	1		23.89		24.7
10	64QAM	1	1		22.28		23.2
10	256QAM	1	1		20.32		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.80	24.85	24.81	25.7

<FR1 n14_Ant 0_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.90		25.3
10	PI/2 BPSK	1	26		24.88		
10	PI/2 BPSK	1	50		24.84		
10	PI/2 BPSK	25	0		24.39		25.2
10	PI/2 BPSK	25	14		24.88		25.3
10	PI/2 BPSK	25	27		24.40		25.2
10	PI/2 BPSK	50	0		24.36		
10	QPSK	1	1		24.89		25.3
10	QPSK	1	26		24.89		
10	QPSK	1	50		24.84		
10	QPSK	25	0		23.87		24.7
10	QPSK	25	14		24.87		25.3
10	QPSK	25	27		23.89		24.7
10	QPSK	50	0		23.89		
10	16QAM	1	1		23.89		24.7
10	64QAM	1	1		22.28		23.2
10	256QAM	1	1		20.32		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.80	24.85	24.81	25.3



<FR1 n25_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	25.7
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	24.57	24.58	24.48	
40	PI/2 BPSK	1	108	24.53	24.54	24.45	25.2
40	PI/2 BPSK	1	214	24.42	24.43	24.42	
40	PI/2 BPSK	108	0	23.93	23.98	23.95	
40	PI/2 BPSK	108	54	24.46	24.51	24.50	25.2
40	PI/2 BPSK	108	108	23.96	24.01	23.92	
40	PI/2 BPSK	216	0	23.95	23.97	23.90	
40	QPSK	1	1	24.40	24.50	24.45	25.7
40	QPSK	1	108	24.40	24.48	24.43	
40	QPSK	1	214	24.40	24.43	24.42	
40	QPSK	108	0	23.43	23.49	23.47	25.7
40	QPSK	108	54	24.45	24.48	24.38	
40	QPSK	108	108	23.50	23.50	23.48	
40	QPSK	216	0	23.43	23.48	23.39	24.7
40	16QAM	1	1	23.45	23.51	23.45	
40	64QAM	1	1	21.76	21.84	21.74	
40	256QAM	1	1	19.69	19.78	19.78	21.2
Channel				373000	376500	380000	25.7
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	24.55	24.52	24.42	
Channel				372500	376500	380500	25.7
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	24.47	24.55	24.42	
Channel				372000	376500	381000	25.7
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	24.54	24.57	24.39	
Channel				371500	376500	381500	25.7
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	24.57	24.48	24.38	
Channel				371000	376500	382000	25.7
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	24.53	24.54	24.45	
Channel				370500	376500	382500	25.7
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	24.49	24.53	24.39	



<FR1 n25_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	24.3
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.13	23.31	23.14	
40	PI/2 BPSK	1	108	23.11	23.18	23.11	24.3
40	PI/2 BPSK	1	214	22.96	23.06	22.90	
40	PI/2 BPSK	108	0	23.05	23.09	23.07	
40	PI/2 BPSK	108	54	23.08	23.15	23.08	24.3
40	PI/2 BPSK	108	108	22.92	23.04	22.98	24.3
40	PI/2 BPSK	216	0	23.11	23.21	23.12	
40	QPSK	1	1	22.97	23.06	23.00	
40	QPSK	1	108	23.04	23.13	23.03	24.3
40	QPSK	1	214	22.97	22.91	22.92	
40	QPSK	108	0	22.92	23.01	22.96	
40	QPSK	108	54	22.91	23.02	22.96	24.3
40	QPSK	108	108	22.87	22.95	22.83	24.3
40	QPSK	216	0	23.07	23.10	23.04	
40	16QAM	1	1	23.17	23.22	23.17	
40	64QAM	1	1	21.61	21.69	21.60	23.2
40	256QAM	1	1	19.74	19.80	19.74	21.2
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.11	23.24	23.11	
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.11	23.29	23.07	
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.05	23.24	23.12	
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.10	23.25	23.12	
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.11	23.25	23.09	
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.07	23.28	23.07	



<FR1 n25_Ant 2_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	22.1
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	21.91	21.95	21.89	
40	PI/2 BPSK	1	108	21.89	21.93	21.87	22.1
40	PI/2 BPSK	1	214	21.80	21.82	21.74	
40	PI/2 BPSK	108	0	21.81	21.84	21.78	
40	PI/2 BPSK	108	54	21.89	21.92	21.86	22.1
40	PI/2 BPSK	108	108	21.87	21.90	21.85	22.1
40	PI/2 BPSK	216	0	21.80	21.85	21.79	
40	QPSK	1	1	21.92	21.94	21.86	
40	QPSK	1	108	21.90	21.94	21.89	22.1
40	QPSK	1	214	21.78	21.82	21.74	
40	QPSK	108	0	21.83	21.87	21.79	
40	QPSK	108	54	21.87	21.92	21.86	22.1
40	QPSK	108	108	21.86	21.90	21.82	22.1
40	QPSK	216	0	21.86	21.88	21.80	
40	16QAM	1	1	21.78	21.83	21.78	
40	64QAM	1	1	21.75	21.79	21.74	22.1
40	256QAM	1	1	19.78	19.82	19.76	21.2
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	21.81	21.89	21.80	
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	21.84	21.89	21.83	
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	21.83	21.86	21.82	
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	21.81	21.89	21.84	
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	21.86	21.88	21.79	
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	21.82	21.90	21.79	



<FR1 n25_Ant 2_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	21.91	21.95	21.89	22.1
40	PI/2 BPSK	1	108	21.89	21.93	21.87	
40	PI/2 BPSK	1	214	21.80	21.82	21.74	
40	PI/2 BPSK	108	0	21.81	21.84	21.78	22.1
40	PI/2 BPSK	108	54	21.89	21.92	21.86	22.1
40	PI/2 BPSK	108	108	21.87	21.90	21.85	22.1
40	PI/2 BPSK	216	0	21.80	21.85	21.79	
40	QPSK	1	1	21.92	21.94	21.86	22.1
40	QPSK	1	108	21.90	21.94	21.89	
40	QPSK	1	214	21.78	21.82	21.74	
40	QPSK	108	0	21.83	21.87	21.79	22.1
40	QPSK	108	54	21.87	21.92	21.86	22.1
40	QPSK	108	108	21.86	21.90	21.82	22.1
40	QPSK	216	0	21.86	21.88	21.80	
40	16QAM	1	1	21.78	21.83	21.78	22.1
40	64QAM	1	1	21.75	21.79	21.74	22.1
40	256QAM	1	1	19.78	19.82	19.76	21.2
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	21.81	21.89	21.80	22.1
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	21.84	21.89	21.83	22.1
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	21.83	21.86	21.82	22.1
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	21.81	21.89	21.84	22.1
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	21.86	21.88	21.79	22.1
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	21.82	21.90	21.79	22.1



<FR1 n25_Ant 2_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	22.1
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	21.91	21.95	21.89	
40	PI/2 BPSK	1	108	21.89	21.93	21.87	22.1
40	PI/2 BPSK	1	214	21.80	21.82	21.74	
40	PI/2 BPSK	108	0	21.81	21.84	21.78	
40	PI/2 BPSK	108	54	21.89	21.92	21.86	22.1
40	PI/2 BPSK	108	108	21.87	21.90	21.85	22.1
40	PI/2 BPSK	216	0	21.80	21.85	21.79	
40	QPSK	1	1	21.92	21.94	21.86	
40	QPSK	1	108	21.90	21.94	21.89	22.1
40	QPSK	1	214	21.78	21.82	21.74	
40	QPSK	108	0	21.83	21.87	21.79	
40	QPSK	108	54	21.87	21.92	21.86	22.1
40	QPSK	108	108	21.86	21.90	21.82	22.1
40	QPSK	216	0	21.86	21.88	21.80	
40	16QAM	1	1	21.78	21.83	21.78	
40	64QAM	1	1	21.75	21.79	21.74	22.1
40	256QAM	1	1	19.78	19.82	19.76	21.2
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	21.81	21.89	21.80	
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	21.84	21.89	21.83	
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	21.83	21.86	21.82	
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	21.81	21.89	21.84	
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	21.86	21.88	21.79	
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	21.82	21.90	21.79	



<FR1 n26_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	25.7
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	25.09	25.12	25.11	
20	PI/2 BPSK	1	53	25.00	25.09	25.01	25.2
20	PI/2 BPSK	1	104	24.91	24.97	24.90	
20	PI/2 BPSK	50	0	24.41	24.50	24.45	
20	PI/2 BPSK	50	28	24.96	25.03	25.00	25.2
20	PI/2 BPSK	50	56	24.50	24.54	24.51	
20	PI/2 BPSK	100	0	24.47	24.56	24.52	
20	QPSK	1	1	24.93	25.03	24.97	25.7
20	QPSK	1	53	25.11	25.11	25.03	
20	QPSK	1	104	25.01	25.01	24.95	
20	QPSK	50	0	24.01	24.05	24.03	24.7
20	QPSK	50	28	24.97	25.06	24.98	25.7
20	QPSK	50	56	23.97	24.05	24.00	24.7
20	QPSK	100	0	23.97	24.07	23.99	
20	16QAM	1	1	23.84	23.88	23.88	
20	64QAM	1	1	22.60	22.62	22.53	23.2
20	256QAM	1	1	20.65	20.65	20.64	21.2
Channel				164300	166300	168300	25.7
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	25.00	25.10	25.11	
Channel				163800	166300	168800	25.7
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	25.09	25.03	25.01	
Channel				163300	166300	169300	25.7
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	25.02	25.06	25.04	



<FR1 n26_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	25.5
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	25.09	25.12	25.11	
20	PI/2 BPSK	1	53	25.00	25.09	25.01	25.2
20	PI/2 BPSK	1	104	24.91	24.97	24.90	
20	PI/2 BPSK	50	0	24.41	24.50	24.45	
20	PI/2 BPSK	50	28	24.96	25.03	25.00	25.2
20	PI/2 BPSK	50	56	24.50	24.54	24.51	
20	PI/2 BPSK	100	0	24.47	24.56	24.52	
20	QPSK	1	1	24.93	25.03	24.97	24.7
20	QPSK	1	53	25.11	25.11	25.03	
20	QPSK	1	104	25.01	25.01	24.95	
20	QPSK	50	0	24.01	24.05	24.03	25.5
20	QPSK	50	28	24.97	25.06	24.98	
20	QPSK	50	56	23.97	24.05	24.00	
20	QPSK	100	0	23.97	24.07	23.99	24.7
20	16QAM	1	1	23.84	23.88	23.88	
20	64QAM	1	1	22.60	22.62	22.53	
20	256QAM	1	1	20.65	20.65	20.64	21.2
Channel				164300	166300	168300	25.5
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	25.00	25.10	25.11	
Channel				163800	166300	168800	25.5
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	25.09	25.03	25.01	
Channel				163300	166300	169300	25.5
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	25.02	25.06	25.04	



<FR1 n26_Ant 0_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	25.7
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	25.09	25.12	25.11	
20	PI/2 BPSK	1	53	25.00	25.09	25.01	25.2
20	PI/2 BPSK	1	104	24.91	24.97	24.90	
20	PI/2 BPSK	50	0	24.41	24.50	24.45	
20	PI/2 BPSK	50	28	24.96	25.03	25.00	25.2
20	PI/2 BPSK	50	56	24.50	24.54	24.51	
20	PI/2 BPSK	100	0	24.47	24.56	24.52	
20	QPSK	1	1	24.93	25.03	24.97	25.7
20	QPSK	1	53	25.11	25.11	25.03	
20	QPSK	1	104	25.01	25.01	24.95	
20	QPSK	50	0	24.01	24.05	24.03	24.7
20	QPSK	50	28	24.97	25.06	24.98	25.7
20	QPSK	50	56	23.97	24.05	24.00	24.7
20	QPSK	100	0	23.97	24.07	23.99	
20	16QAM	1	1	23.84	23.88	23.88	
20	64QAM	1	1	22.60	22.62	22.53	23.2
20	256QAM	1	1	20.65	20.65	20.64	21.2
Channel				164300	166300	168300	25.7
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	25.00	25.10	25.11	
Channel				163800	166300	168800	25.7
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	25.09	25.03	25.01	
Channel				163300	166300	169300	25.7
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	25.02	25.06	25.04	



<FR1 n26_Ant 0_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	25.7
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	25.09	25.12	25.11	
20	PI/2 BPSK	1	53	25.00	25.09	25.01	25.2
20	PI/2 BPSK	1	104	24.91	24.97	24.90	
20	PI/2 BPSK	50	0	24.41	24.50	24.45	
20	PI/2 BPSK	50	28	24.96	25.03	25.00	25.2
20	PI/2 BPSK	50	56	24.50	24.54	24.51	
20	PI/2 BPSK	100	0	24.47	24.56	24.52	
20	QPSK	1	1	24.93	25.03	24.97	25.7
20	QPSK	1	53	25.11	25.11	25.03	
20	QPSK	1	104	25.01	25.01	24.95	
20	QPSK	50	0	24.01	24.05	24.03	24.7
20	QPSK	50	28	24.97	25.06	24.98	25.7
20	QPSK	50	56	23.97	24.05	24.00	24.7
20	QPSK	100	0	23.97	24.07	23.99	
20	16QAM	1	1	23.84	23.88	23.88	
20	64QAM	1	1	22.60	22.62	22.53	23.2
20	256QAM	1	1	20.65	20.65	20.64	21.2
Channel				164300	166300	168300	25.7
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	25.00	25.10	25.11	
Channel				163800	166300	168800	25.7
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	25.09	25.03	25.01	
Channel				163300	166300	169300	25.7
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	25.02	25.06	25.04	



<FR1 n26_Ant 0_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	25.7
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	25.09	25.12	25.11	
20	PI/2 BPSK	1	53	25.00	25.09	25.01	25.2
20	PI/2 BPSK	1	104	24.91	24.97	24.90	
20	PI/2 BPSK	50	0	24.41	24.50	24.45	
20	PI/2 BPSK	50	28	24.96	25.03	25.00	25.2
20	PI/2 BPSK	50	56	24.50	24.54	24.51	
20	PI/2 BPSK	100	0	24.47	24.56	24.52	
20	QPSK	1	1	24.93	25.03	24.97	25.7
20	QPSK	1	53	25.11	25.11	25.03	
20	QPSK	1	104	25.01	25.01	24.95	
20	QPSK	50	0	24.01	24.05	24.03	24.7
20	QPSK	50	28	24.97	25.06	24.98	25.7
20	QPSK	50	56	23.97	24.05	24.00	24.7
20	QPSK	100	0	23.97	24.07	23.99	
20	16QAM	1	1	23.84	23.88	23.88	
20	64QAM	1	1	22.60	22.62	22.53	23.2
20	256QAM	1	1	20.65	20.65	20.64	21.2
Channel				164300	166300	168300	25.7
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	25.00	25.10	25.11	
Channel				163800	166300	168800	25.7
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	25.09	25.03	25.01	
Channel				163300	166300	169300	25.7
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	25.02	25.06	25.04	



<FR1 n30_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.77		25.7
10	PI/2 BPSK	1	26		24.76		
10	PI/2 BPSK	1	50		24.60		
10	PI/2 BPSK	25	0		22.25		23.7
10	PI/2 BPSK	25	14		24.67		25.7
10	PI/2 BPSK	25	27		22.12		23.7
10	PI/2 BPSK	50	0		22.29		
10	QPSK	1	1		24.75		25.7
10	QPSK	1	26		24.73		
10	QPSK	1	50		24.55		
10	QPSK	25	0		21.37		23.2
10	QPSK	25	14		24.75		25.7
10	QPSK	25	27		21.20		23.2
10	QPSK	50	0		21.27		
10	16QAM	1	1		23.75		24.7
10	64QAM	1	1		22.32		23.2
10	256QAM	1	1		20.44		21.2
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	24.71	24.75	24.72	25.7

<FR1 n30_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.77		25.3
10	PI/2 BPSK	1	26		24.76		
10	PI/2 BPSK	1	50		24.60		
10	PI/2 BPSK	25	0		22.25		23.7
10	PI/2 BPSK	25	14		24.67		25.3
10	PI/2 BPSK	25	27		22.12		23.7
10	PI/2 BPSK	50	0		22.29		
10	QPSK	1	1		24.75		25.3
10	QPSK	1	26		24.73		
10	QPSK	1	50		24.55		
10	QPSK	25	0		21.37		23.2
10	QPSK	25	14		24.75		25.3
10	QPSK	25	27		21.20		23.2
10	QPSK	50	0		21.27		
10	16QAM	1	1		23.75		24.7
10	64QAM	1	1		22.32		23.2
10	256QAM	1	1		20.44		21.2
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	24.71	24.75	24.72	25.3



<FR1 n30_Ant 2_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		20.26		21.0
10	PI/2 BPSK	1	26		20.25		
10	PI/2 BPSK	1	50		20.04		
10	PI/2 BPSK	25	0		20.24		21.0
10	PI/2 BPSK	25	14		20.25		21.0
10	PI/2 BPSK	25	27		20.10		21.0
10	PI/2 BPSK	50	0		20.14		
10	QPSK	1	1		20.20		21.0
10	QPSK	1	26		20.19		
10	QPSK	1	50		20.22		
10	QPSK	25	0		20.22		21.0
10	QPSK	25	14		20.18		21.0
10	QPSK	25	27		20.18		21.0
10	QPSK	50	0		20.18		
10	16QAM	1	1		20.23		21.0
10	64QAM	1	1		20.25		21.0
10	256QAM	1	1		20.15		21.0
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	20.16	20.21	20.20	21.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		20.26		21.7
10	PI/2 BPSK	1	26		20.25		
10	PI/2 BPSK	1	50		20.04		
10	PI/2 BPSK	25	0		20.24		21.7
10	PI/2 BPSK	25	14		20.25		21.7
10	PI/2 BPSK	25	27		20.10		21.7
10	PI/2 BPSK	50	0		20.14		
10	QPSK	1	1		20.20		21.7
10	QPSK	1	26		20.19		
10	QPSK	1	50		20.22		
10	QPSK	25	0		20.22		21.7
10	QPSK	25	14		20.18		21.7
10	QPSK	25	27		20.18		21.7
10	QPSK	50	0		20.18		
10	16QAM	1	1		20.23		21.7
10	64QAM	1	1		20.25		21.7
10	256QAM	1	1		20.15		21.2
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	20.16	20.21	20.20	21.7



<FR1 n30_Ant 2_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		20.26		21.0
10	PI/2 BPSK	1	26		20.25		
10	PI/2 BPSK	1	50		20.04		
10	PI/2 BPSK	25	0		20.24		21.0
10	PI/2 BPSK	25	14		20.25		21.0
10	PI/2 BPSK	25	27		20.10		21.0
10	PI/2 BPSK	50	0		20.14		
10	QPSK	1	1		20.20		21.0
10	QPSK	1	26		20.19		
10	QPSK	1	50		20.22		
10	QPSK	25	0		20.22		21.0
10	QPSK	25	14		20.18		21.0
10	QPSK	25	27		20.18		21.0
10	QPSK	50	0		20.18		
10	16QAM	1	1		20.23		21.0
10	64QAM	1	1		20.25		21.0
10	256QAM	1	1		20.15		21.0
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	20.16	20.21	20.20	21.0



<FR1 n38_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	23.98	24.14	24.02	25.5
20	PI/2 BPSK	1	26	23.67	23.84	23.70	
20	PI/2 BPSK	1	49	23.70	23.90	23.71	
20	PI/2 BPSK	25	0	23.67	23.92	23.76	25.2
20	PI/2 BPSK	25	13	23.71	23.87	23.73	25.5
20	PI/2 BPSK	25	26	23.66	23.81	23.74	25.2
20	PI/2 BPSK	50	0	23.66	23.90	23.70	
20	QPSK	1	1	23.93	24.21	24.09	25.5
20	QPSK	1	26	23.64	23.84	23.75	
20	QPSK	1	49	23.75	23.93	23.72	
20	QPSK	25	0	23.58	23.66	23.57	24.7
20	QPSK	25	13	23.63	23.88	23.65	25.5
20	QPSK	25	26	23.47	23.57	23.43	24.7
20	QPSK	50	0	23.35	23.57	23.46	
20	16QAM	1	1	23.70	23.90	23.74	24.7
20	64QAM	1	1	22.22	22.39	22.21	23.2
20	256QAM	1	1	20.27	20.37	20.32	21.2
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	23.93	24.05	23.96	25.5
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	23.91	24.07	23.92	25.5

**<FR1 n38_Ant 2_Index 3>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	21.94	21.90	21.97	23.5
20	PI/2 BPSK	1	26	21.93	21.89	21.96	
20	PI/2 BPSK	1	49	21.92	21.88	21.95	
20	PI/2 BPSK	25	0	21.91	21.87	21.94	23.5
20	PI/2 BPSK	25	13	21.93	21.89	21.96	23.5
20	PI/2 BPSK	25	26	21.90	21.86	21.93	23.5
20	PI/2 BPSK	50	0	21.92	21.88	21.95	
20	QPSK	1	1	21.91	21.87	21.94	23.5
20	QPSK	1	26	21.90	21.86	21.93	
20	QPSK	1	49	21.89	21.85	21.92	
20	QPSK	25	0	21.90	21.86	21.93	23.4
20	QPSK	25	13	21.92	21.88	21.95	23.5
20	QPSK	25	26	21.91	21.87	21.94	23.4
20	QPSK	50	0	21.92	21.88	21.95	
20	16QAM	1	1	21.92	21.88	21.95	23.5
20	64QAM	1	1	21.88	21.84	21.91	23.2
20	256QAM	1	1	20.08	20.05	20.11	21.2
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	21.92	21.88	21.61	23.5
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	21.93	21.89	21.62	23.5

<FR1 n38_Ant 2_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	20.14	20.16	20.14	21.6
20	PI/2 BPSK	1	26	19.84	19.84	19.85	
20	PI/2 BPSK	1	49	19.83	19.86	19.87	
20	PI/2 BPSK	25	0	19.81	19.81	19.79	21.6
20	PI/2 BPSK	25	13	19.84	19.88	19.80	21.6
20	PI/2 BPSK	25	26	19.79	19.84	19.79	21.6
20	PI/2 BPSK	50	0	19.78	19.83	19.83	
20	QPSK	1	1	20.04	20.07	20.04	21.6
20	QPSK	1	26	19.77	19.85	19.78	
20	QPSK	1	49	19.81	19.80	19.79	
20	QPSK	25	0	19.82	19.79	19.77	21.6
20	QPSK	25	13	19.82	19.80	19.74	21.6
20	QPSK	25	26	19.79	19.74	19.72	21.6
20	QPSK	50	0	19.80	19.88	19.84	
20	16QAM	1	1	20.06	20.10	20.15	21.6
20	64QAM	1	1	20.02	20.08	20.10	21.6
20	256QAM	1	1	20.09	20.14	20.05	21.2
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	20.05	20.06	20.09	21.6
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	20.11	20.12	20.12	21.6

**<FR1 n38_Ant 2_Index 5>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	20.14	20.16	20.14	21.7
20	PI/2 BPSK	1	26	19.84	19.84	19.85	
20	PI/2 BPSK	1	49	19.83	19.86	19.87	
20	PI/2 BPSK	25	0	19.81	19.81	19.79	21.7
20	PI/2 BPSK	25	13	19.84	19.88	19.80	21.7
20	PI/2 BPSK	25	26	19.79	19.84	19.79	21.7
20	PI/2 BPSK	50	0	19.78	19.83	19.83	
20	QPSK	1	1	20.04	20.07	20.04	21.7
20	QPSK	1	26	19.77	19.85	19.78	
20	QPSK	1	49	19.81	19.80	19.79	
20	QPSK	25	0	19.82	19.79	19.77	21.7
20	QPSK	25	13	19.82	19.80	19.74	21.7
20	QPSK	25	26	19.79	19.74	19.72	21.7
20	QPSK	50	0	19.80	19.88	19.84	
20	16QAM	1	1	20.06	20.10	20.15	21.7
20	64QAM	1	1	20.02	20.08	20.10	21.7
20	256QAM	1	1	20.09	20.14	20.05	21.2
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	20.05	20.06	20.09	21.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	20.11	20.12	20.12	21.7

<FR1 n38_Ant 2_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	20.14	20.16	20.14	21.7
20	PI/2 BPSK	1	26	19.84	19.84	19.85	
20	PI/2 BPSK	1	49	19.83	19.86	19.87	
20	PI/2 BPSK	25	0	19.81	19.81	19.79	21.7
20	PI/2 BPSK	25	13	19.84	19.88	19.80	21.7
20	PI/2 BPSK	25	26	19.79	19.84	19.79	21.7
20	PI/2 BPSK	50	0	19.78	19.83	19.83	
20	QPSK	1	1	20.04	20.07	20.04	21.7
20	QPSK	1	26	19.77	19.85	19.78	
20	QPSK	1	49	19.81	19.80	19.79	
20	QPSK	25	0	19.82	19.79	19.77	21.7
20	QPSK	25	13	19.82	19.80	19.74	21.7
20	QPSK	25	26	19.79	19.74	19.72	21.7
20	QPSK	50	0	19.80	19.88	19.84	
20	16QAM	1	1	20.06	20.10	20.15	21.7
20	64QAM	1	1	20.02	20.08	20.10	21.7
20	256QAM	1	1	20.09	20.14	20.05	21.2
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	20.05	20.06	20.09	21.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	20.11	20.12	20.12	21.7



<FR1 n41_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	25.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.04	24.23	24.05	
100	PI/2 BPSK	1	137	23.74	23.92	23.76	25.2
100	PI/2 BPSK	1	271	23.80	23.95	23.79	
100	PI/2 BPSK	135	0	23.75	23.94	23.81	
100	PI/2 BPSK	135	69	23.80	23.95	23.79	25.2
100	PI/2 BPSK	135	138	23.75	23.91	23.79	
100	PI/2 BPSK	270	0	23.73	23.91	23.79	
100	QPSK	1	1	24.03	24.22	24.12	25.5
100	QPSK	1	137	23.74	23.93	23.81	
100	QPSK	1	271	23.83	23.96	23.81	
100	QPSK	135	0	23.64	23.76	23.58	24.7
100	QPSK	135	69	23.71	23.91	23.74	25.5
100	QPSK	135	138	23.50	23.63	23.45	24.7
100	QPSK	270	0	23.45	23.63	23.52	
100	16QAM	1	1	23.79	23.95	23.76	
100	64QAM	1	1	22.32	22.42	22.28	23.2
100	256QAM	1	1	20.31	20.44	20.33	21.2
Channel				508200	518598	528996	25.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.95	24.17	23.96	
Channel				507204	518598	529998	25.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.99	24.14	23.96	
Channel				506202	518598	531000	25.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.96	24.14	24.00	
Channel				505200	518598	531996	25.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.99	24.18	23.99	
Channel				504204	518598	532998	25.5
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.95	24.13	23.95	
Channel				503202	518598	534000	25.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.94	24.16	23.95	
Channel				502200	518598	534996	25.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.97	24.16	24.00	
Channel				501204	518598	535998	25.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.95	24.17	23.96	
Channel				500700	518598	536496	25.5
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.97	24.16	23.96	
Channel				500202	518598	537000	25.5
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.99	24.13	23.98	



<FR1 n41_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	15.9
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	14.78	14.93	14.83	
100	PI/2 BPSK	1	137	14.03	14.15	14.01	15.9
100	PI/2 BPSK	1	271	14.43	14.53	14.41	
100	PI/2 BPSK	135	0	14.08	14.19	14.09	
100	PI/2 BPSK	135	69	14.07	14.20	14.06	15.9
100	PI/2 BPSK	135	138	13.98	14.11	14.00	15.9
100	PI/2 BPSK	270	0	14.19	14.31	14.20	
100	QPSK	1	1	14.68	14.83	14.68	
100	QPSK	1	137	13.91	14.05	13.95	15.9
100	QPSK	1	271	14.29	14.42	14.30	
100	QPSK	135	0	13.98	14.08	13.95	
100	QPSK	135	69	13.94	14.09	13.96	15.9
100	QPSK	135	138	14.10	14.01	14.11	15.9
100	QPSK	270	0	14.11	14.21	14.08	
100	16QAM	1	1	14.81	14.92	14.79	
100	64QAM	1	1	14.80	14.92	14.78	15.9
100	256QAM	1	1	14.76	14.90	14.79	15.9
Channel				508200	518598	528996	15.9
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	14.71	14.83	14.73	
Channel				507204	518598	529998	15.9
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	14.68	14.86	14.76	
Channel				506202	518598	531000	15.9
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	14.71	14.86	14.77	
Channel				505200	518598	531996	15.9
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	14.70	14.85	14.76	
Channel				504204	518598	532998	15.9
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	14.72	14.87	14.75	
Channel				503202	518598	534000	15.9
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	14.68	14.87	14.77	
Channel				502200	518598	534996	15.9
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	14.70	14.88	14.76	
Channel				501204	518598	535998	15.9
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	14.72	14.84	14.78	
Channel				500700	518598	536496	15.9
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	14.68	14.85	14.73	
Channel				500202	518598	537000	15.9
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	14.70	14.86	14.75	



<FR1 n41_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	23.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.14	22.18	22.08	
100	PI/2 BPSK	1	137	21.85	21.89	21.79	23.5
100	PI/2 BPSK	1	271	21.94	21.98	21.88	
100	PI/2 BPSK	135	0	21.97	22.01	21.91	
100	PI/2 BPSK	135	69	21.81	21.85	21.75	23.5
100	PI/2 BPSK	135	138	21.85	21.89	21.79	
100	PI/2 BPSK	270	0	21.83	21.87	21.77	
100	QPSK	1	1	22.13	22.17	22.07	23.5
100	QPSK	1	137	21.84	21.88	21.78	
100	QPSK	1	271	21.96	22.00	21.90	
100	QPSK	135	0	21.94	21.98	21.88	23.4
100	QPSK	135	69	21.84	21.88	21.78	23.4
100	QPSK	135	138	21.85	21.89	21.79	
100	QPSK	270	0	21.84	21.88	21.78	
100	16QAM	1	1	22.13	22.17	22.07	23.5
100	64QAM	1	1	22.07	22.11	22.01	23.2
100	256QAM	1	1	20.29	20.33	20.24	21.2
Channel				508200	518598	528996	23.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.14	22.10	22.00	
Channel				507204	518598	529998	23.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.09	22.12	21.98	
Channel				506202	518598	531000	23.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.02	22.11	22.00	
Channel				505200	518598	531996	23.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.01	21.97	22.09	
Channel				504204	518598	532998	23.5
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.13	22.00	21.97	
Channel				503202	518598	534000	23.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.99	22.14	21.95	
Channel				502200	518598	534996	23.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.95	22.00	22.12	
Channel				501204	518598	535998	23.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.09	22.11	22.11	
Channel				500700	518598	536496	23.5
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.07	22.07	22.04	
Channel				500202	518598	537000	23.5
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.98	21.96	22.10	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	14.6
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	13.79	13.81	13.70	
100	PI/2 BPSK	1	137	13.09	13.11	13.01	14.6
100	PI/2 BPSK	1	271	13.52	13.54	13.43	
100	PI/2 BPSK	135	0	13.29	13.31	13.20	
100	PI/2 BPSK	135	69	13.13	13.15	13.05	14.6
100	PI/2 BPSK	135	138	13.20	13.22	13.11	14.6
100	PI/2 BPSK	270	0	13.24	13.26	13.15	
100	QPSK	1	1	13.77	13.79	13.68	
100	QPSK	1	137	13.09	13.11	13.01	14.6
100	QPSK	1	271	13.53	13.55	13.44	
100	QPSK	135	0	13.29	13.31	13.20	
100	QPSK	135	69	13.12	13.14	13.04	14.6
100	QPSK	135	138	13.21	13.23	13.12	14.6
100	QPSK	270	0	13.24	13.26	13.15	
100	16QAM	1	1	13.78	13.80	13.69	
100	64QAM	1	1	13.71	13.73	13.62	14.6
100	256QAM	1	1	13.73	13.75	13.64	14.6
Channel				508200	518598	528996	14.6
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	13.74	13.77	13.59	
Channel				507204	518598	529998	14.6
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	13.60	13.68	13.64	
Channel				506202	518598	531000	14.6
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	13.71	13.72	13.60	
Channel				505200	518598	531996	14.6
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	13.76	13.75	13.52	
Channel				504204	518598	532998	14.6
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	13.65	13.61	13.53	
Channel				503202	518598	534000	14.6
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	13.71	13.64	13.54	
Channel				502200	518598	534996	14.6
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	13.70	13.73	13.67	
Channel				501204	518598	535998	14.6
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	13.76	13.61	13.56	
Channel				500700	518598	536496	14.6
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	13.62	13.61	13.66	
Channel				500202	518598	537000	14.6
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	13.78	13.66	13.55	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	21.6
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.20	20.22	20.16	
100	PI/2 BPSK	1	137	19.89	19.92	19.87	21.6
100	PI/2 BPSK	1	271	19.93	19.95	19.92	
100	PI/2 BPSK	135	0	19.86	19.91	19.85	
100	PI/2 BPSK	135	69	19.86	19.92	19.89	21.6
100	PI/2 BPSK	135	138	19.88	19.90	19.87	21.6
100	PI/2 BPSK	270	0	19.88	19.92	19.89	
100	QPSK	1	1	20.13	20.16	20.13	
100	QPSK	1	137	19.81	19.87	19.82	21.6
100	QPSK	1	271	19.87	19.89	19.87	
100	QPSK	135	0	19.84	19.87	19.81	
100	QPSK	135	69	19.85	19.88	19.83	21.6
100	QPSK	135	138	19.81	19.84	19.79	21.6
100	QPSK	270	0	19.85	19.90	19.86	
100	16QAM	1	1	20.16	20.21	20.19	
100	64QAM	1	1	20.11	20.17	20.13	21.6
100	256QAM	1	1	20.12	20.17	20.11	21.2
Channel				508200	518598	528996	21.6
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.17	20.12	20.09	
Channel				507204	518598	529998	21.6
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.15	20.15	20.10	
Channel				506202	518598	531000	21.6
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.16	20.18	20.11	
Channel				505200	518598	531996	21.6
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	20.15	20.17	20.14	
Channel				504204	518598	532998	21.6
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.15	20.20	20.14	
Channel				503202	518598	534000	21.6
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.13	20.19	20.07	
Channel				502200	518598	534996	21.6
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.10	20.20	20.10	
Channel				501204	518598	535998	21.6
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.17	20.15	20.06	
Channel				500700	518598	536496	21.6
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	20.13	20.17	20.08	
Channel				500202	518598	537000	21.6
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.11	20.18	20.08	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	19.3
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.86	18.87	18.72	
100	PI/2 BPSK	1	137	18.05	18.11	18.10	19.3
100	PI/2 BPSK	1	271	18.48	18.52	18.43	
100	PI/2 BPSK	135	0	18.16	18.18	18.16	
100	PI/2 BPSK	135	69	18.06	18.19	18.11	19.3
100	PI/2 BPSK	135	138	18.09	18.18	18.11	19.3
100	PI/2 BPSK	270	0	18.16	18.25	18.20	
100	QPSK	1	1	18.74	18.82	18.73	
100	QPSK	1	137	18.06	18.10	18.06	19.3
100	QPSK	1	271	18.53	18.53	18.49	
100	QPSK	135	0	18.25	18.29	18.21	
100	QPSK	135	69	18.05	18.11	18.02	19.3
100	QPSK	135	138	18.15	18.19	18.09	19.3
100	QPSK	270	0	18.18	18.24	18.18	
100	16QAM	1	1	18.84	18.84	18.83	
100	64QAM	1	1	18.73	18.76	18.74	19.3
100	256QAM	1	1	18.71	18.78	18.77	19.3
Channel				508200	518598	528996	19.3
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.78	18.82	18.69	
Channel				507204	518598	529998	19.3
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.79	18.77	18.62	
Channel				506202	518598	531000	19.3
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.77	18.77	18.65	
Channel				505200	518598	531996	19.3
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.82	18.78	18.65	
Channel				504204	518598	532998	19.3
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.84	18.83	18.63	
Channel				503202	518598	534000	19.3
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.84	18.85	18.64	
Channel				502200	518598	534996	19.3
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.85	18.84	18.67	
Channel				501204	518598	535998	19.3
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.81	18.86	18.69	
Channel				500700	518598	536496	19.3
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.82	18.85	18.72	
Channel				500202	518598	537000	19.3
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.82	18.81	18.62	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	21.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.20	20.22	20.16	
100	PI/2 BPSK	1	137	19.89	19.92	19.87	21.7
100	PI/2 BPSK	1	271	19.93	19.95	19.92	
100	PI/2 BPSK	135	0	19.86	19.91	19.85	
100	PI/2 BPSK	135	69	19.86	19.92	19.89	21.7
100	PI/2 BPSK	135	138	19.88	19.90	19.87	21.7
100	PI/2 BPSK	270	0	19.88	19.92	19.89	
100	QPSK	1	1	20.13	20.16	20.13	
100	QPSK	1	137	19.81	19.87	19.82	21.7
100	QPSK	1	271	19.87	19.89	19.87	
100	QPSK	135	0	19.84	19.87	19.81	
100	QPSK	135	69	19.85	19.88	19.83	21.7
100	QPSK	135	138	19.81	19.84	19.79	21.7
100	QPSK	270	0	19.85	19.90	19.86	
100	16QAM	1	1	20.16	20.21	20.19	
100	64QAM	1	1	20.11	20.17	20.13	21.7
100	256QAM	1	1	20.12	20.17	20.11	21.2
Channel				508200	518598	528996	21.7
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.17	20.12	20.09	
Channel				507204	518598	529998	21.7
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.15	20.15	20.10	
Channel				506202	518598	531000	21.7
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.16	20.18	20.11	
Channel				505200	518598	531996	21.7
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	20.15	20.17	20.14	
Channel				504204	518598	532998	21.7
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.15	20.20	20.14	
Channel				503202	518598	534000	21.7
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.13	20.19	20.07	
Channel				502200	518598	534996	21.7
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.10	20.20	20.10	
Channel				501204	518598	535998	21.7
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.17	20.15	20.06	
Channel				500700	518598	536496	21.7
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	20.13	20.17	20.08	
Channel				500202	518598	537000	21.7
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.11	20.18	20.08	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	22.4
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.02	21.05	20.99	
100	PI/2 BPSK	1	137	20.57	20.61	20.57	22.4
100	PI/2 BPSK	1	271	20.53	20.57	20.55	
100	PI/2 BPSK	135	0	20.49	20.50	20.50	
100	PI/2 BPSK	135	69	20.49	20.51	20.48	22.4
100	PI/2 BPSK	135	138	20.48	20.41	20.48	22.4
100	PI/2 BPSK	270	0	20.48	20.42	20.40	
100	QPSK	1	1	21.00	21.02	20.96	
100	QPSK	1	137	20.52	20.54	20.49	22.4
100	QPSK	1	271	20.49	20.53	20.47	
100	QPSK	135	0	20.43	20.47	20.43	
100	QPSK	135	69	20.43	20.49	20.44	22.4
100	QPSK	135	138	20.42	20.44	20.48	22.4
100	QPSK	270	0	20.42	20.46	20.41	
100	16QAM	1	1	21.01	21.04	21.00	
100	64QAM	1	1	20.95	20.98	20.94	22.4
100	256QAM	1	1	20.60	20.66	20.60	20.7
Channel				508200	518598	528996	22.4
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.87	20.97	20.91	
Channel				507204	518598	529998	22.4
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.89	20.98	20.84	
Channel				506202	518598	531000	22.4
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.87	20.92	20.91	
Channel				505200	518598	531996	22.4
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	20.93	20.93	20.89	
Channel				504204	518598	532998	22.4
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.90	21.00	20.92	
Channel				503202	518598	534000	22.4
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.94	20.96	20.93	
Channel				502200	518598	534996	22.4
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.89	20.99	20.89	
Channel				501204	518598	535998	22.4
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.88	20.96	20.86	
Channel				500700	518598	536496	22.4
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	20.97	20.97	20.85	
Channel				500202	518598	537000	22.4
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.93	20.97	20.86	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	21.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.20	20.22	20.16	
100	PI/2 BPSK	1	137	19.89	19.92	19.87	21.7
100	PI/2 BPSK	1	271	19.93	19.95	19.92	
100	PI/2 BPSK	135	0	19.86	19.91	19.85	
100	PI/2 BPSK	135	69	19.86	19.92	19.89	21.7
100	PI/2 BPSK	135	138	19.88	19.90	19.87	21.7
100	PI/2 BPSK	270	0	19.88	19.92	19.89	
100	QPSK	1	1	20.13	20.16	20.13	
100	QPSK	1	137	19.81	19.87	19.82	21.7
100	QPSK	1	271	19.87	19.89	19.87	
100	QPSK	135	0	19.84	19.87	19.81	
100	QPSK	135	69	19.85	19.88	19.83	21.7
100	QPSK	135	138	19.81	19.84	19.79	21.7
100	QPSK	270	0	19.85	19.90	19.86	
100	16QAM	1	1	20.16	20.21	20.19	
100	64QAM	1	1	20.11	20.17	20.13	21.7
100	256QAM	1	1	20.12	20.17	20.11	21.2
Channel				508200	518598	528996	21.7
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.17	20.12	20.09	
Channel				507204	518598	529998	21.7
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.15	20.15	20.10	
Channel				506202	518598	531000	21.7
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.16	20.18	20.11	
Channel				505200	518598	531996	21.7
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	20.15	20.17	20.14	
Channel				504204	518598	532998	21.7
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.15	20.20	20.14	
Channel				503202	518598	534000	21.7
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.13	20.19	20.07	
Channel				502200	518598	534996	21.7
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.10	20.20	20.10	
Channel				501204	518598	535998	21.7
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.17	20.15	20.06	
Channel				500700	518598	536496	21.7
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	20.13	20.17	20.08	
Channel				500202	518598	537000	21.7
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.11	20.18	20.08	



<FR1 n41_Ant 1_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	19.3
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.86	18.87	18.72	
100	PI/2 BPSK	1	137	18.05	18.11	18.10	19.3
100	PI/2 BPSK	1	271	18.48	18.52	18.43	
100	PI/2 BPSK	135	0	18.16	18.18	18.16	
100	PI/2 BPSK	135	69	18.06	18.19	18.11	19.3
100	PI/2 BPSK	135	138	18.09	18.18	18.11	19.3
100	PI/2 BPSK	270	0	18.16	18.25	18.20	
100	QPSK	1	1	18.74	18.82	18.73	
100	QPSK	1	137	18.06	18.10	18.06	19.3
100	QPSK	1	271	18.53	18.53	18.49	
100	QPSK	135	0	18.25	18.29	18.21	
100	QPSK	135	69	18.05	18.11	18.02	19.3
100	QPSK	135	138	18.15	18.19	18.09	19.3
100	QPSK	270	0	18.18	18.24	18.18	
100	16QAM	1	1	18.84	18.84	18.83	
100	64QAM	1	1	18.73	18.76	18.74	19.3
100	256QAM	1	1	18.71	18.78	18.77	19.3
Channel				508200	518598	528996	19.3
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.78	18.82	18.69	
Channel				507204	518598	529998	19.3
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.79	18.77	18.62	
Channel				506202	518598	531000	19.3
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.77	18.77	18.65	
Channel				505200	518598	531996	19.3
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.82	18.78	18.65	
Channel				504204	518598	532998	19.3
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.84	18.83	18.63	
Channel				503202	518598	534000	19.3
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.84	18.85	18.64	
Channel				502200	518598	534996	19.3
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.85	18.84	18.67	
Channel				501204	518598	535998	19.3
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.81	18.86	18.69	
Channel				500700	518598	536496	19.3
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.82	18.85	18.72	
Channel				500202	518598	537000	19.3
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.82	18.81	18.62	



<FR1 n41_HPUE_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	27.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.71	26.73	26.68	
100	PI/2 BPSK	1	137	26.35	26.37	26.34	27.0
100	PI/2 BPSK	1	271	26.42	26.43	26.34	
100	PI/2 BPSK	135	0	26.01	26.03	26.03	
100	PI/2 BPSK	135	69	26.32	26.39	26.31	27.0
100	PI/2 BPSK	135	138	25.87	25.88	25.87	
100	PI/2 BPSK	270	0	25.84	25.89	25.86	
100	QPSK	1	1	26.62	26.67	26.60	27.5
100	QPSK	1	137	26.34	26.40	26.33	
100	QPSK	1	271	26.39	26.40	26.37	
100	QPSK	135	0	25.49	25.53	25.47	27.5
100	QPSK	135	69	26.36	26.40	26.35	
100	QPSK	135	138	25.33	25.38	25.30	
100	QPSK	270	0	25.33	25.39	25.38	26.5
100	16QAM	1	1	25.69	25.69	25.68	
100	64QAM	1	1	24.13	24.14	24.08	
100	256QAM	1	1	22.17	22.19	22.12	23.0
Channel				508200	518598	528996	27.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	26.64	26.63	26.64	
Channel				507204	518598	529998	27.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.62	26.67	26.64	
Channel				506202	518598	531000	27.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	26.62	26.69	26.68	
Channel				505200	518598	531996	27.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.61	26.69	26.66	
Channel				504204	518598	532998	27.5
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.64	26.70	26.59	
Channel				503202	518598	534000	27.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.67	26.68	26.67	
Channel				502200	518598	534996	27.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.66	26.66	26.58	
Channel				501204	518598	535998	27.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	26.69	26.71	26.61	
Channel				500700	518598	536496	27.5
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	26.70	26.66	26.65	
Channel				500202	518598	537000	27.5
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	26.62	26.69	26.63	



<FR1 n41_HPUE_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	18.9
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	17.85	17.94	17.82	
100	PI/2 BPSK	1	137	17.01	17.13	17.01	18.9
100	PI/2 BPSK	1	271	17.45	17.52	17.40	
100	PI/2 BPSK	135	0	17.03	17.16	17.11	
100	PI/2 BPSK	135	69	17.06	17.17	17.12	18.9
100	PI/2 BPSK	135	138	17.10	17.16	17.10	18.9
100	PI/2 BPSK	270	0	17.14	17.29	17.24	
100	QPSK	1	1	17.67	17.80	17.68	
100	QPSK	1	137	16.99	16.99	16.93	18.9
100	QPSK	1	271	17.25	17.37	17.23	
100	QPSK	135	0	16.99	17.04	16.98	
100	QPSK	135	69	16.91	17.06	17.00	18.9
100	QPSK	135	138	16.97	17.05	16.94	18.9
100	QPSK	270	0	17.11	17.18	17.03	
100	16QAM	1	1	17.75	17.88	17.83	
100	64QAM	1	1	17.71	17.85	17.74	18.9
100	256QAM	1	1	17.74	17.86	17.79	18.9
Channel				508200	518598	528996	18.9
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	17.71	17.82	17.70	
Channel				507204	518598	529998	18.9
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	17.69	17.84	17.65	
Channel				506202	518598	531000	18.9
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	17.68	17.84	17.62	
Channel				505200	518598	531996	18.9
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	17.72	17.78	17.67	
Channel				504204	518598	532998	18.9
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	17.68	17.80	17.63	
Channel				503202	518598	534000	18.9
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	17.70	17.77	17.63	
Channel				502200	518598	534996	18.9
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	17.65	17.78	17.71	
Channel				501204	518598	535998	18.9
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	17.75	17.74	17.71	
Channel				500700	518598	536496	18.9
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	17.65	17.77	17.70	
Channel				500202	518598	537000	18.9
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	17.67	17.81	17.72	



<FR1 n41_HPUE_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	26.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.20	25.22	25.17	
100	PI/2 BPSK	1	137	24.89	24.91	24.86	26.5
100	PI/2 BPSK	1	271	24.97	24.99	24.94	
100	PI/2 BPSK	135	0	24.98	25.00	24.95	
100	PI/2 BPSK	135	69	24.99	25.01	24.96	26.5
100	PI/2 BPSK	135	138	24.93	24.95	24.90	26.5
100	PI/2 BPSK	270	0	24.93	24.95	24.90	
100	QPSK	1	1	25.18	25.20	25.15	
100	QPSK	1	137	24.88	24.90	24.85	26.5
100	QPSK	1	271	25.17	25.19	25.14	
100	QPSK	135	0	24.98	25.00	24.95	
100	QPSK	135	69	24.98	25.00	24.95	26.5
100	QPSK	135	138	24.94	24.96	24.91	26.5
100	QPSK	270	0	24.91	24.93	24.88	
100	16QAM	1	1	25.16	25.18	25.13	
100	64QAM	1	1	24.17	24.19	24.14	25.0
100	256QAM	1	1	22.20	22.22	22.18	23.0
Channel				508200	518598	528996	26.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.14	25.12	25.10	
Channel				507204	518598	529998	26.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.15	25.13	25.11	
Channel				506202	518598	531000	26.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.15	25.13	25.12	
Channel				505200	518598	531996	26.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.11	25.15	25.08	
Channel				504204	518598	532998	26.5
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.13	25.16	25.07	
Channel				503202	518598	534000	26.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.13	25.17	25.08	
Channel				502200	518598	534996	26.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.12	25.15	25.09	
Channel				501204	518598	535998	26.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.14	25.13	25.12	
Channel				500700	518598	536496	26.5
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.15	25.12	25.07	
Channel				500202	518598	537000	26.5
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.12	25.15	25.12	



<FR1 n41_HPUE_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	17.6
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.68	16.74	16.53	
100	PI/2 BPSK	1	137	15.87	15.93	15.73	17.6
100	PI/2 BPSK	1	271	16.33	16.39	16.18	
100	PI/2 BPSK	135	0	16.02	16.08	15.88	
100	PI/2 BPSK	135	69	16.04	16.10	15.90	17.6
100	PI/2 BPSK	135	138	15.95	16.01	15.81	
100	PI/2 BPSK	270	0	16.02	16.08	15.88	
100	QPSK	1	1	16.66	16.72	16.51	17.6
100	QPSK	1	137	15.87	15.93	15.73	
100	QPSK	1	271	16.34	16.40	16.19	
100	QPSK	135	0	15.99	16.05	15.85	17.6
100	QPSK	135	69	16.04	16.10	15.90	
100	QPSK	135	138	15.96	16.02	15.82	
100	QPSK	270	0	16.03	16.09	15.89	17.6
100	16QAM	1	1	16.66	16.72	16.51	
100	64QAM	1	1	16.59	16.65	16.44	
100	256QAM	1	1	16.60	16.66	16.45	17.6
Channel				508200	518598	528996	17.6
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.59	16.68	16.44	
Channel				507204	518598	529998	17.6
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.60	16.64	16.46	
Channel				506202	518598	531000	17.6
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.60	16.68	16.45	
Channel				505200	518598	531996	17.6
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.61	16.64	16.43	
Channel				504204	518598	532998	17.6
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.61	16.67	16.48	
Channel				503202	518598	534000	17.6
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.61	16.64	16.48	
Channel				502200	518598	534996	17.6
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.61	16.66	16.44	
Channel				501204	518598	535998	17.6
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.63	16.65	16.48	
Channel				500700	518598	536496	17.6
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	16.63	16.67	16.47	
Channel				500202	518598	537000	17.6
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	16.59	16.64	16.46	



<FR1 n41_HPUE_Ant 2_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	24.6
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.26	23.30	23.26	
100	PI/2 BPSK	1	137	22.90	22.96	22.92	24.6
100	PI/2 BPSK	1	271	22.95	23.02	22.95	
100	PI/2 BPSK	135	0	22.87	22.93	22.83	
100	PI/2 BPSK	135	69	22.84	22.94	22.85	24.6
100	PI/2 BPSK	135	138	22.89	22.93	22.83	24.6
100	PI/2 BPSK	270	0	22.88	22.93	22.88	
100	QPSK	1	1	23.23	23.26	23.22	
100	QPSK	1	137	22.83	22.93	22.86	24.6
100	QPSK	1	271	22.83	22.92	22.87	
100	QPSK	135	0	22.83	22.86	22.81	
100	QPSK	135	69	22.79	22.84	22.75	24.6
100	QPSK	135	138	22.79	22.88	22.82	24.6
100	QPSK	270	0	22.79	22.88	22.81	
100	16QAM	1	1	23.22	23.28	23.20	
100	64QAM	1	1	23.14	23.20	23.17	24.6
100	256QAM	1	1	22.19	22.22	22.17	23.0
Channel				508200	518598	528996	24.6
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.07	23.11	23.12	
Channel				507204	518598	529998	24.6
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.14	23.20	23.10	
Channel				506202	518598	531000	24.6
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.06	23.15	23.12	
Channel				505200	518598	531996	24.6
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.16	23.20	23.08	
Channel				504204	518598	532998	24.6
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.15	23.17	23.08	
Channel				503202	518598	534000	24.6
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.14	23.13	23.12	
Channel				502200	518598	534996	24.6
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.11	23.11	23.10	
Channel				501204	518598	535998	24.6
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.07	23.15	23.09	
Channel				500700	518598	536496	24.6
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.12	23.12	23.13	
Channel				500202	518598	537000	24.6
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.07	23.12	23.08	



<FR1 n41_HPUE_Ant 1_Index 4>

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



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



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	25.4
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.93	23.99	23.94	
100	PI/2 BPSK	1	137	23.46	23.51	23.47	25.4
100	PI/2 BPSK	1	271	23.48	23.53	23.47	
100	PI/2 BPSK	135	0	23.42	23.40	23.40	
100	PI/2 BPSK	135	69	23.44	23.41	23.43	25.4
100	PI/2 BPSK	135	138	23.43	23.40	23.41	
100	PI/2 BPSK	270	0	23.43	23.41	23.43	
100	QPSK	1	1	23.91	23.94	23.90	25.4
100	QPSK	1	137	23.40	23.46	23.41	
100	QPSK	1	271	23.45	23.48	23.42	
100	QPSK	135	0	23.41	23.41	23.43	25.4
100	QPSK	135	69	23.40	23.40	23.41	
100	QPSK	135	138	23.43	23.41	23.42	
100	QPSK	270	0	23.43	23.43	23.45	25.4
100	16QAM	1	1	23.93	23.98	23.92	
100	64QAM	1	1	23.89	23.93	23.89	
100	256QAM	1	1	22.29	22.34	22.31	22.5
Channel				508200	518598	528996	25.4
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.86	23.84	23.80	
Channel				507204	518598	529998	25.4
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.83	23.87	23.87	
Channel				506202	518598	531000	25.4
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.88	23.90	23.88	
Channel				505200	518598	531996	25.4
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.84	23.90	23.82	
Channel				504204	518598	532998	25.4
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.86	23.85	23.86	
Channel				503202	518598	534000	25.4
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.81	23.91	23.86	
Channel				502200	518598	534996	25.4
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.82	23.93	23.81	
Channel				501204	518598	535998	25.4
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.88	23.89	23.81	
Channel				500700	518598	536496	25.4
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.78	23.86	23.82	
Channel				500202	518598	537000	25.4
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.79	23.90	23.84	