



Appendix D. Output Power Measurement

<WCDMA Main Ant State2>													
Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	15.91	15.86	15.84	16.00	15.52	15.72	15.58	16.00	22.03	22.06	21.95	22.50
3GPP Rel 6	HSDPA Subtest-1	15.06	15.01	15.00	15.00	13.93	14.87	14.57	15.00	21.14	21.22	21.19	21.50
3GPP Rel 6	HSDPA Subtest-2	15.06	15.04	14.70	15.00	14.02	14.88	14.56	15.00	21.17	21.21	21.16	21.50
3GPP Rel 6	HSDPA Subtest-3	14.56	14.49	14.49	14.50	14.31	14.36	14.18	14.50	20.64	20.71	20.35	21.00
3GPP Rel 6	HSDPA Subtest-4	14.55	14.21	14.45	14.50	14.31	14.35	14.20	14.50	20.68	20.70	20.65	21.00
3GPP Rel 6	HSUPA Subtest-1	13.99	14.00	13.93	14.50	13.75	13.86	13.64	14.50	21.14	21.20	21.15	21.50
3GPP Rel 6	HSUPA Subtest-2	13.03	13.01	12.99	13.50	12.78	12.86	12.66	13.50	19.14	19.10	19.15	19.50
3GPP Rel 6	HSUPA Subtest-3	15.00	15.02	15.00	14.50	14.58	14.88	14.65	14.50	20.13	20.20	20.14	20.50
3GPP Rel 6	HSUPA Subtest-4	13.02	13.01	12.99	13.50	12.75	12.82	12.62	13.50	19.15	19.21	19.14	19.50
3GPP Rel 6	HSUPA Subtest-5	15.05	15.01	15.00	15.50	14.85	14.80	14.70	15.50	21.10	21.20	21.20	21.50

<WCDMA Main Ant State3>													
Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	18.06	18.11	18.09	18.50	16.34	16.46	16.39	17.00	21.05	21.11	21.03	21.50
3GPP Rel 6	HSDPA Subtest-1	17.00	17.03	16.98	17.50	15.23	15.33	15.18	16.00	20.13	20.21	20.23	20.50
3GPP Rel 6	HSDPA Subtest-2	17.01	17.04	16.71	17.50	15.23	15.39	15.17	16.00	20.17	20.18	20.18	20.50
3GPP Rel 6	HSDPA Subtest-3	16.54	16.49	16.48	17.00	14.74	14.87	14.31	15.50	19.64	19.68	19.70	20.00
3GPP Rel 6	HSDPA Subtest-4	16.15	16.48	16.51	17.00	14.72	14.82	14.68	15.50	19.63	19.66	19.70	20.00
3GPP Rel 6	HSUPA Subtest-1	16.98	17.05	17.01	17.50	15.19	15.35	15.12	16.00	20.15	20.22	20.15	20.50
3GPP Rel 6	HSUPA Subtest-2	15.04	15.01	15.01	15.50	13.27	13.34	13.19	14.00	18.11	18.20	18.18	19.50
3GPP Rel 6	HSUPA Subtest-3	15.95	16.01	16.02	16.50	14.25	14.33	14.14	15.00	19.10	19.18	19.15	20.50
3GPP Rel 6	HSUPA Subtest-4	15.00	15.04	15.01	15.50	13.20	13.36	13.16	14.00	18.15	18.18	18.15	19.50
3GPP Rel 6	HSUPA Subtest-5	17.00	17.00	17.00	17.50	15.30	15.30	15.20	16.00	20.10	20.20	20.20	21.50



◀LTE Band 2 Main Ant. State 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				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	15.78	15.76	15.74	16
20	QPSK	1	49	15.75	15.73	15.67	
20	QPSK	1	99	15.73	15.60	15.62	
20	QPSK	50	0	14.71	14.68	14.67	15
20	QPSK	50	24	14.76	14.66	14.66	
20	QPSK	50	50	14.81	14.68	14.64	
20	QPSK	100	0	14.79	14.69	14.64	
20	16QAM	1	0	14.78	14.83	14.84	15
20	16QAM	1	49	14.90	14.91	14.91	
20	16QAM	1	99	14.78	14.78	14.67	
20	16QAM	50	0	13.91	13.89	13.84	14
20	16QAM	50	24	13.95	13.85	13.87	
20	16QAM	50	50	13.96	13.91	13.83	
20	16QAM	100	0	13.96	13.89	13.79	
20	64QAM	1	0	13.90	13.82	13.81	14
20	64QAM	1	49	13.99	13.94	13.84	
20	64QAM	1	99	13.81	13.75	13.85	
20	64QAM	50	0	12.93	12.91	12.83	13
20	64QAM	50	24	12.96	12.82	12.84	
20	64QAM	50	50	12.91	12.91	12.90	
20	64QAM	100	0	12.92	12.82	12.78	
20	256QAM	1	0	10.95	10.87	10.93	11
20	256QAM	1	49	10.97	10.95	10.80	
20	256QAM	1	99	10.92	10.80	10.82	
20	256QAM	50	0	10.83	10.84	10.65	11
20	256QAM	50	24	10.85	10.81	10.74	
20	256QAM	50	50	10.88	10.79	10.77	
20	256QAM	100	0	10.83	10.70	10.73	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	15.73	15.69	15.70	16
15	QPSK	1	37	15.70	15.61	15.67	
15	QPSK	1	74	15.62	15.51	15.47	
15	QPSK	36	0	14.71	14.57	14.55	15
15	QPSK	36	20	14.73	14.65	14.51	
15	QPSK	36	39	14.70	14.65	14.48	
15	QPSK	75	0	14.62	14.58	14.63	
15	16QAM	1	0	14.61	14.66	14.74	15
15	16QAM	1	37	14.75	14.83	14.83	
15	16QAM	1	74	14.71	14.70	14.62	
15	16QAM	36	0	13.78	13.83	13.80	14
15	16QAM	36	20	13.90	13.78	13.83	
15	16QAM	36	39	13.80	13.80	13.65	
15	16QAM	75	0	13.78	13.75	13.78	
15	64QAM	1	0	13.90	13.72	13.73	14
15	64QAM	1	37	13.84	13.93	13.76	
15	64QAM	1	74	13.72	13.57	13.82	
15	64QAM	36	0	12.84	12.87	12.74	13
15	64QAM	36	20	12.89	12.67	12.76	
15	64QAM	36	39	12.78	12.72	12.81	
15	64QAM	75	0	12.76	12.74	12.74	
15	256QAM	1	0	10.87	10.82	10.81	11
15	256QAM	1	37	10.84	10.94	10.60	
15	256QAM	1	74	10.82	10.67	10.70	
15	256QAM	36	0	10.79	10.82	10.50	11
15	256QAM	36	20	10.68	10.69	10.66	
15	256QAM	36	39	10.71	10.76	10.57	
15	256QAM	75	0	10.65	10.70	10.54	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	



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10	QPSK	1	0	15.73	15.73	15.61	16
10	QPSK	1	25	15.61	15.60	15.50	
10	QPSK	1	49	15.60	15.51	15.62	
10	QPSK	25	0	14.63	14.49	14.48	15
10	QPSK	25	12	14.73	14.66	14.48	
10	QPSK	25	25	14.68	14.66	14.60	
10	QPSK	50	0	14.71	14.63	14.59	15
10	16QAM	1	0	14.71	14.78	14.72	
10	16QAM	1	25	14.79	14.86	14.71	
10	16QAM	1	49	14.62	14.78	14.64	14
10	16QAM	25	0	13.74	13.76	13.68	
10	16QAM	25	12	13.82	13.75	13.72	
10	16QAM	25	25	13.89	13.75	13.80	14
10	16QAM	50	0	13.86	13.74	13.62	
10	64QAM	1	0	13.87	13.63	13.78	
10	64QAM	1	25	13.81	13.81	13.69	14
10	64QAM	1	49	13.75	13.55	13.80	
10	64QAM	25	0	12.81	12.72	12.77	
10	64QAM	25	12	12.83	12.65	12.69	13
10	64QAM	25	25	12.87	12.91	12.72	
10	64QAM	50	0	12.73	12.80	12.62	
10	256QAM	1	0	10.81	10.79	10.75	11
10	256QAM	1	25	10.85	10.85	10.72	
10	256QAM	1	49	10.74	10.68	10.81	
10	256QAM	25	0	10.76	10.65	10.62	11
10	256QAM	25	12	10.71	10.61	10.74	
10	256QAM	25	25	10.69	10.76	10.71	
10	256QAM	50	0	10.71	10.58	10.55	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	15.68	15.57	15.59	16
5	QPSK	1	12	15.59	15.66	15.59	
5	QPSK	1	24	15.55	15.56	15.53	
5	QPSK	12	0	14.71	14.60	14.56	15
5	QPSK	12	7	14.59	14.50	14.61	
5	QPSK	12	13	14.63	14.51	14.45	
5	QPSK	25	0	14.59	14.55	14.64	15
5	16QAM	1	0	14.65	14.69	14.67	
5	16QAM	1	12	14.89	14.91	14.85	
5	16QAM	1	24	14.66	14.76	14.55	14
5	16QAM	12	0	13.79	13.74	13.65	
5	16QAM	12	7	13.79	13.66	13.79	
5	16QAM	12	13	13.77	13.80	13.82	14
5	16QAM	25	0	13.89	13.85	13.70	
5	64QAM	1	0	13.79	13.78	13.75	
5	64QAM	1	12	13.79	13.79	13.80	14
5	64QAM	1	24	13.79	13.59	13.69	
5	64QAM	12	0	12.85	12.80	12.73	
5	64QAM	12	7	12.88	12.65	12.84	13
5	64QAM	12	13	12.84	12.79	12.74	
5	64QAM	25	0	12.74	12.77	12.78	
5	256QAM	1	0	10.83	10.87	10.90	11
5	256QAM	1	12	10.97	10.93	10.68	
5	256QAM	1	24	10.88	10.66	10.81	
5	256QAM	12	0	10.66	10.69	10.60	11
5	256QAM	12	7	10.83	10.61	10.72	
5	256QAM	12	13	10.79	10.78	10.63	
5	256QAM	25	0	10.72	10.62	10.63	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	15.60	15.69	15.56	16
3	QPSK	1	8	15.66	15.63	15.58	
3	QPSK	1	14	15.73	15.60	15.57	
3	QPSK	8	0	14.70	14.63	14.53	15
3	QPSK	8	4	14.68	14.54	14.63	
3	QPSK	8	7	14.79	14.62	14.56	



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3	QPSK	15	0	14.63	14.68	14.55	
3	16QAM	1	0	14.70	14.82	14.78	15
3	16QAM	1	8	14.79	14.82	14.76	
3	16QAM	1	14	14.75	14.68	14.49	
3	16QAM	8	0	13.82	13.86	13.66	14
3	16QAM	8	4	13.80	13.77	13.69	
3	16QAM	8	7	13.88	13.71	13.77	
3	16QAM	15	0	13.94	13.69	13.72	14
3	64QAM	1	0	13.84	13.79	13.66	
3	64QAM	1	8	13.79	13.81	13.75	
3	64QAM	1	14	13.67	13.67	13.83	13
3	64QAM	8	0	12.88	12.89	12.77	
3	64QAM	8	4	12.96	12.80	12.76	
3	64QAM	8	7	12.76	12.73	12.84	11
3	64QAM	15	0	12.88	12.73	12.68	
3	256QAM	1	0	10.90	10.67	10.88	
3	256QAM	1	8	10.94	10.89	10.61	11
3	256QAM	1	14	10.86	10.63	10.69	
3	256QAM	8	0	10.72	10.72	10.46	
3	256QAM	8	4	10.69	10.80	10.69	11
3	256QAM	8	7	10.86	10.78	10.74	
3	256QAM	15	0	10.82	10.55	10.65	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	15.68	15.57	15.62	16
1.4	QPSK	1	3	15.69	15.66	15.74	
1.4	QPSK	1	5	15.59	15.62	15.65	
1.4	QPSK	3	0	15.62	15.64	15.57	
1.4	QPSK	3	1	15.70	15.72	15.66	
1.4	QPSK	3	3	15.60	15.72	15.62	
1.4	QPSK	6	0	14.81	14.64	14.76	15
1.4	16QAM	1	0	14.66	14.65	14.86	15
1.4	16QAM	1	3	14.97	14.70	14.81	
1.4	16QAM	1	5	14.97	14.95	14.62	
1.4	16QAM	3	0	14.73	14.74	14.56	
1.4	16QAM	3	1	14.65	14.60	14.82	
1.4	16QAM	3	3	14.73	14.62	14.66	
1.4	16QAM	6	0	13.59	13.60	13.93	14
1.4	64QAM	1	0	13.92	13.68	13.65	14
1.4	64QAM	1	3	13.84	13.84	13.84	
1.4	64QAM	1	5	13.89	13.65	13.82	
1.4	64QAM	3	0	13.63	13.92	13.67	
1.4	64QAM	3	1	13.78	13.66	13.70	
1.4	64QAM	3	3	13.69	13.85	13.66	
1.4	64QAM	6	0	12.81	12.63	12.56	13
1.4	256QAM	1	0	10.77	10.58	10.70	11
1.4	256QAM	1	3	10.92	10.61	10.58	
1.4	256QAM	1	5	10.75	10.69	10.71	
1.4	256QAM	3	0	10.90	10.80	10.59	
1.4	256QAM	3	1	10.78	10.68	10.60	
1.4	256QAM	3	3	10.74	10.93	10.89	
1.4	256QAM	6	0	10.90	10.84	10.73	11



<LTE Band 2 MIMO2 Ant State 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				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.39	17.31	17.42	17.5
20	QPSK	1	49	17.24	17.12	17.25	
20	QPSK	1	99	17.26	17.13	17.23	
20	QPSK	50	0	17.35	17.22	17.33	17.5
20	QPSK	50	24	17.36	17.21	17.31	
20	QPSK	50	50	17.40	17.30	17.40	
20	QPSK	100	0	17.34	17.29	17.39	17.5
20	16QAM	1	0	17.30	17.21	17.39	
20	16QAM	1	49	17.18	17.06	17.15	
20	16QAM	1	99	17.26	17.13	17.20	17.5
20	16QAM	50	0	17.35	17.13	17.32	
20	16QAM	50	24	17.32	17.13	17.30	
20	16QAM	50	50	17.34	17.22	17.33	17.5
20	16QAM	100	0	17.34	17.29	17.37	
20	64QAM	1	0	17.22	17.11	17.34	
20	64QAM	1	49	17.14	17.00	17.13	17.5
20	64QAM	1	99	17.26	17.06	17.15	
20	64QAM	50	0	17.29	17.10	17.30	
20	64QAM	50	24	17.29	17.09	17.23	17.5
20	64QAM	50	50	17.32	17.15	17.25	
20	64QAM	100	0	17.27	17.19	17.34	
20	256QAM	1	0	16.77	17.18	16.79	17.5
20	256QAM	1	49	16.76	17.13	16.73	
20	256QAM	1	99	16.72	17.08	16.69	
20	256QAM	50	0	16.69	17.01	16.59	17.5
20	256QAM	50	24	16.69	16.96	16.57	
20	256QAM	50	50	16.61	16.90	16.53	
20	256QAM	100	0	16.60	16.85	16.46	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.35	17.28	17.41	17.5
15	QPSK	1	37	17.19	17.08	17.19	
15	QPSK	1	74	17.25	17.06	17.23	
15	QPSK	36	0	17.25	17.16	17.30	17.5
15	QPSK	36	20	17.30	17.15	17.24	
15	QPSK	36	39	17.38	17.30	17.38	
15	QPSK	75	0	17.31	17.24	17.34	17.5
15	16QAM	1	0	17.25	17.16	17.37	
15	16QAM	1	37	17.13	17.05	17.07	
15	16QAM	1	74	17.16	17.11	17.18	17.5
15	16QAM	36	0	17.25	17.03	17.25	
15	16QAM	36	20	17.22	17.12	17.25	
15	16QAM	36	39	17.28	17.15	17.32	17.5
15	16QAM	75	0	17.33	17.23	17.27	
15	64QAM	1	0	17.22	17.05	17.28	
15	64QAM	1	37	17.04	16.99	17.12	17.5
15	64QAM	1	74	17.18	17.00	17.15	
15	64QAM	36	0	17.19	17.06	17.29	
15	64QAM	36	20	17.23	17.08	17.15	17.5
15	64QAM	36	39	17.28	17.05	17.19	
15	64QAM	75	0	17.27	17.16	17.27	
15	256QAM	1	0	16.70	17.10	16.78	17.5
15	256QAM	1	37	16.74	17.09	16.70	
15	256QAM	1	74	16.65	17.06	16.64	
15	256QAM	36	0	16.67	16.97	16.52	17.5
15	256QAM	36	20	16.64	16.91	16.47	
15	256QAM	36	39	16.60	16.90	16.52	
15	256QAM	75	0	16.60	16.80	16.43	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	



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10	QPSK	1	0	17.34	17.24	17.35	17.5
10	QPSK	1	25	17.15	17.08	17.18	
10	QPSK	1	49	17.20	16.96	17.17	
10	QPSK	25	0	17.16	17.16	17.28	17.5
10	QPSK	25	12	17.25	17.12	17.17	
10	QPSK	25	25	17.35	17.22	17.36	
10	QPSK	50	0	17.31	17.22	17.27	17.5
10	16QAM	1	0	17.24	17.11	17.27	
10	16QAM	1	25	17.06	16.99	17.04	
10	16QAM	1	49	17.14	17.06	17.17	17.5
10	16QAM	25	0	17.16	16.97	17.25	
10	16QAM	25	12	17.18	17.07	17.18	
10	16QAM	25	25	17.22	17.06	17.27	17.5
10	16QAM	50	0	17.33	17.22	17.17	
10	64QAM	1	0	17.16	17.00	17.18	
10	64QAM	1	25	16.94	16.89	17.11	17.5
10	64QAM	1	49	17.14	16.92	17.15	
10	64QAM	25	0	17.16	17.00	17.24	
10	64QAM	25	12	17.20	17.01	17.11	17.5
10	64QAM	25	25	17.25	16.96	17.11	
10	64QAM	50	0	17.20	17.09	17.18	
10	256QAM	1	0	16.61	17.05	16.71	17.5
10	256QAM	1	25	16.67	17.07	16.63	
10	256QAM	1	49	16.63	16.96	16.64	
10	256QAM	25	0	16.60	16.96	16.51	17.5
10	256QAM	25	12	16.57	16.88	16.37	
10	256QAM	25	25	16.54	16.84	16.47	
10	256QAM	50	0	16.54	16.70	16.41	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.26	17.15	17.31	17.5
5	QPSK	1	12	17.14	17.08	17.13	
5	QPSK	1	24	17.15	16.87	17.09	
5	QPSK	12	0	17.09	17.15	17.24	17.5
5	QPSK	12	7	17.15	17.08	17.16	
5	QPSK	12	13	17.25	17.17	17.33	
5	QPSK	25	0	17.24	17.12	17.27	17.5
5	16QAM	1	0	17.16	17.08	17.27	
5	16QAM	1	12	17.05	16.93	16.95	
5	16QAM	1	24	17.05	16.96	17.11	17.5
5	16QAM	12	0	17.11	16.92	17.25	
5	16QAM	12	7	17.12	17.02	17.14	
5	16QAM	12	13	17.17	17.02	17.21	17.5
5	16QAM	25	0	17.27	17.20	17.11	
5	64QAM	1	0	17.11	16.97	17.14	
5	64QAM	1	12	16.85	16.86	17.01	17.5
5	64QAM	1	24	17.04	16.83	17.06	
5	64QAM	12	0	17.13	16.96	17.22	
5	64QAM	12	7	17.18	16.93	17.09	17.5
5	64QAM	12	13	17.25	16.89	17.08	
5	64QAM	25	0	17.16	16.99	17.08	
5	256QAM	1	0	16.59	16.96	16.70	17.5
5	256QAM	1	12	16.60	16.99	16.54	
5	256QAM	1	24	16.57	16.86	16.54	
5	256QAM	12	0	16.57	16.93	16.47	17.5
5	256QAM	12	7	16.54	16.82	16.31	
5	256QAM	12	13	16.45	16.77	16.39	
5	256QAM	25	0	16.44	16.70	16.34	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	17.18	17.09	17.22	17.5
3	QPSK	1	8	17.08	17.06	17.04	
3	QPSK	1	14	17.10	16.84	17.07	
3	QPSK	8	0	17.00	17.15	17.22	17.5
3	QPSK	8	4	17.15	17.03	17.16	
3	QPSK	8	7	17.22	17.17	17.24	



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3	QPSK	15	0	17.19	17.12	17.22	
3	16QAM	1	0	17.14	17.04	17.19	17.5
3	16QAM	1	8	17.02	16.88	16.87	
3	16QAM	1	14	17.04	16.91	17.04	
3	16QAM	8	0	17.07	16.91	17.22	17.5
3	16QAM	8	4	17.09	16.98	17.13	
3	16QAM	8	7	17.15	16.92	17.21	
3	16QAM	15	0	17.26	17.18	17.01	17.5
3	64QAM	1	0	17.01	16.95	17.11	
3	64QAM	1	8	16.82	16.78	16.92	
3	64QAM	1	14	16.96	16.80	17.05	17.5
3	64QAM	8	0	17.04	16.91	17.15	
3	64QAM	8	4	17.12	16.93	17.01	
3	64QAM	8	7	17.18	16.88	17.00	17.5
3	64QAM	15	0	17.15	16.97	16.99	
3	256QAM	1	0	16.49	16.93	16.67	
3	256QAM	1	8	16.58	16.89	16.44	17.5
3	256QAM	1	14	16.47	16.83	16.49	
3	256QAM	8	0	16.54	16.84	16.46	
3	256QAM	8	4	16.53	16.75	16.23	17.5
3	256QAM	8	7	16.36	16.67	16.31	
3	256QAM	15	0	16.35	16.67	16.31	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.11	16.99	17.20	17.5
1.4	QPSK	1	3	17.05	16.98	16.97	
1.4	QPSK	1	5	17.08	16.74	17.04	
1.4	QPSK	3	0	16.94	17.15	17.13	
1.4	QPSK	3	1	17.12	16.93	17.06	
1.4	QPSK	3	3	17.15	17.11	17.21	
1.4	QPSK	6	0	17.09	17.06	17.13	17.5
1.4	16QAM	1	0	17.14	16.98	17.18	17.5
1.4	16QAM	1	3	16.98	16.86	16.78	
1.4	16QAM	1	5	16.98	16.88	16.94	
1.4	16QAM	3	0	17.02	16.88	17.21	
1.4	16QAM	3	1	17.06	16.98	17.12	
1.4	16QAM	3	3	17.07	16.82	17.20	
1.4	16QAM	6	0	17.17	17.15	16.99	17.5
1.4	64QAM	1	0	16.95	16.85	17.01	17.5
1.4	64QAM	1	3	16.76	16.69	16.86	
1.4	64QAM	1	5	16.87	16.80	16.99	
1.4	64QAM	3	0	16.95	16.82	17.15	
1.4	64QAM	3	1	17.08	16.90	16.98	
1.4	64QAM	3	3	17.16	16.78	16.94	
1.4	64QAM	6	0	17.15	16.87	16.93	17.5
1.4	256QAM	1	0	16.46	16.91	16.66	17.5
1.4	256QAM	1	3	16.56	16.82	16.43	
1.4	256QAM	1	5	16.37	16.77	16.42	
1.4	256QAM	3	0	16.51	16.78	16.41	
1.4	256QAM	3	1	16.51	16.67	16.13	
1.4	256QAM	3	3	16.36	16.61	16.26	
1.4	256QAM	6	0	16.32	16.59	16.28	17.5



LTE Band 2 Main Ant. State 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				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	16.15	16.13	16.18	17
20	QPSK	1	49	16.21	16.16	16.11	
20	QPSK	1	99	16.19	16.18	16.12	
20	QPSK	50	0	15.17	15.19	15.17	16
20	QPSK	50	24	15.26	15.22	15.21	
20	QPSK	50	50	15.28	15.27	15.18	
20	QPSK	100	0	15.23	15.24	15.22	
20	16QAM	1	0	15.63	15.45	15.39	16
20	16QAM	1	49	15.46	15.54	15.43	
20	16QAM	1	99	15.47	15.41	15.30	
20	16QAM	50	0	14.17	14.22	14.21	15
20	16QAM	50	24	14.22	14.20	14.19	
20	16QAM	50	50	14.24	14.25	14.19	
20	16QAM	100	0	14.25	14.15	14.25	
20	64QAM	1	0	14.45	14.31	14.37	15
20	64QAM	1	49	14.47	14.41	14.36	
20	64QAM	1	99	14.37	14.39	14.39	
20	64QAM	50	0	13.20	13.18	13.11	14
20	64QAM	50	24	13.27	13.18	13.19	
20	64QAM	50	50	13.25	13.19	13.16	
20	64QAM	100	0	13.25	13.13	13.20	
20	256QAM	1	0	11.39	11.52	11.40	12
20	256QAM	1	49	11.55	11.51	11.47	
20	256QAM	1	99	11.42	11.45	11.31	
20	256QAM	50	0	11.37	11.41	11.34	12
20	256QAM	50	24	11.45	11.35	11.30	
20	256QAM	50	50	11.33	11.42	11.35	
20	256QAM	100	0	11.37	11.36	11.37	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	16.17	16.15	16.16	17
15	QPSK	1	37	16.14	16.19	16.13	
15	QPSK	1	74	16.20	16.07	16.09	
15	QPSK	36	0	15.15	15.22	15.09	16
15	QPSK	36	20	15.22	15.18	15.18	
15	QPSK	36	39	15.19	15.26	15.16	
15	QPSK	75	0	15.23	15.21	15.15	
15	16QAM	1	0	15.54	15.46	15.33	16
15	16QAM	1	37	15.50	15.51	15.59	
15	16QAM	1	74	15.35	15.38	15.30	
15	16QAM	36	0	14.16	14.20	14.13	15
15	16QAM	36	20	14.22	14.20	14.15	
15	16QAM	36	39	14.28	14.25	14.14	
15	16QAM	75	0	14.24	14.19	14.16	
15	64QAM	1	0	14.40	14.35	14.32	15
15	64QAM	1	37	14.43	14.49	14.38	
15	64QAM	1	74	14.44	14.38	14.29	
15	64QAM	36	0	13.18	13.19	13.14	14
15	64QAM	36	20	13.27	13.17	13.19	
15	64QAM	36	39	13.25	13.23	13.18	
15	64QAM	75	0	13.25	13.17	13.14	
15	256QAM	1	0	11.38	11.48	11.37	12
15	256QAM	1	37	11.52	11.41	11.43	
15	256QAM	1	74	11.38	11.43	11.26	
15	256QAM	36	0	11.32	11.34	11.24	12
15	256QAM	36	20	11.44	11.26	11.30	
15	256QAM	36	39	11.24	11.36	11.32	
15	256QAM	75	0	11.36	11.32	11.28	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	



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10	QPSK	1	0	16.13	16.19	16.18	17
10	QPSK	1	25	16.14	16.18	16.12	
10	QPSK	1	49	16.12	16.15	16.19	
10	QPSK	25	0	15.28	15.35	15.30	16
10	QPSK	25	12	15.34	15.33	15.28	
10	QPSK	25	25	15.27	15.33	15.24	
10	QPSK	50	0	15.31	15.31	15.26	16
10	16QAM	1	0	15.48	15.53	15.50	
10	16QAM	1	25	15.59	15.58	15.59	
10	16QAM	1	49	15.60	15.53	15.47	15
10	16QAM	25	0	14.27	14.36	14.30	
10	16QAM	25	12	14.37	14.32	14.29	
10	16QAM	25	25	14.36	14.36	14.34	15
10	16QAM	50	0	14.32	14.33	14.24	
10	64QAM	1	0	14.54	14.40	14.53	
10	64QAM	1	25	14.58	14.56	14.43	15
10	64QAM	1	49	14.32	14.39	14.39	
10	64QAM	25	0	13.26	13.34	13.29	
10	64QAM	25	12	13.38	13.35	13.27	14
10	64QAM	25	25	13.32	13.38	13.29	
10	64QAM	50	0	13.29	13.31	13.26	
10	256QAM	1	0	11.38	11.46	11.39	12
10	256QAM	1	25	11.55	11.48	11.37	
10	256QAM	1	49	11.34	11.39	11.26	
10	256QAM	25	0	11.31	11.32	11.29	12
10	256QAM	25	12	11.45	11.30	11.29	
10	256QAM	25	25	11.24	11.33	11.32	
10	256QAM	50	0	11.30	11.31	11.36	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.14	16.15	16.14	17
5	QPSK	1	12	16.14	16.14	16.18	
5	QPSK	1	24	16.19	16.17	16.15	
5	QPSK	12	0	15.30	15.36	15.30	16
5	QPSK	12	7	15.35	15.35	15.27	
5	QPSK	12	13	15.25	15.31	15.26	
5	QPSK	25	0	15.27	15.28	15.21	16
5	16QAM	1	0	15.62	15.62	15.54	
5	16QAM	1	12	15.62	15.67	15.52	
5	16QAM	1	24	15.41	15.59	15.48	15
5	16QAM	12	0	14.39	14.40	14.29	
5	16QAM	12	7	14.33	14.35	14.25	
5	16QAM	12	13	14.32	14.31	14.30	15
5	16QAM	25	0	14.29	14.26	14.22	
5	64QAM	1	0	14.49	14.50	14.46	
5	64QAM	1	12	14.46	14.46	14.42	15
5	64QAM	1	24	14.34	14.49	14.35	
5	64QAM	12	0	13.39	13.37	13.30	
5	64QAM	12	7	13.33	13.31	13.22	14
5	64QAM	12	13	13.22	13.35	13.31	
5	64QAM	25	0	13.28	13.27	13.22	
5	256QAM	1	0	11.38	11.42	11.31	12
5	256QAM	1	12	11.54	11.48	11.42	
5	256QAM	1	24	11.42	11.41	11.31	
5	256QAM	12	0	11.32	11.37	11.26	12
5	256QAM	12	7	11.41	11.29	11.30	
5	256QAM	12	13	11.23	11.38	11.31	
5	256QAM	25	0	11.36	11.35	11.35	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	16.17	16.15	16.20	17
3	QPSK	1	8	16.10	16.13	16.18	
3	QPSK	1	14	16.08	16.15	16.10	
3	QPSK	8	0	15.29	15.34	15.23	16
3	QPSK	8	4	15.29	15.41	15.32	
3	QPSK	8	7	15.26	15.32	15.20	



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3	QPSK	15	0	15.30	15.31	15.19	
3	16QAM	1	0	15.63	15.70	15.51	16
3	16QAM	1	8	15.65	15.69	15.52	
3	16QAM	1	14	15.52	15.58	15.35	
3	16QAM	8	0	14.41	14.39	14.34	15
3	16QAM	8	4	14.36	14.45	14.37	
3	16QAM	8	7	14.27	14.34	14.31	
3	16QAM	15	0	14.34	14.29	14.21	
3	64QAM	1	0	14.46	14.48	14.44	15
3	64QAM	1	8	14.56	14.56	14.42	
3	64QAM	1	14	14.39	14.42	14.28	
3	64QAM	8	0	13.31	13.34	13.26	14
3	64QAM	8	4	13.30	13.42	13.35	
3	64QAM	8	7	13.23	13.38	13.24	
3	64QAM	15	0	13.29	13.30	13.21	
3	256QAM	1	0	11.37	11.47	11.39	12
3	256QAM	1	8	11.50	11.42	11.38	
3	256QAM	1	14	11.33	11.45	11.23	
3	256QAM	8	0	11.34	11.32	11.33	12
3	256QAM	8	4	11.36	11.34	11.24	
3	256QAM	8	7	11.28	11.39	11.26	
3	256QAM	15	0	11.35	11.35	11.29	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	16.16	16.11	16.19	17
1.4	QPSK	1	3	16.15	16.10	16.19	
1.4	QPSK	1	5	16.13	16.20	16.07	
1.4	QPSK	3	0	16.15	16.17	16.20	
1.4	QPSK	3	1	16.19	16.16	16.19	
1.4	QPSK	3	3	16.15	16.18	16.17	
1.4	QPSK	6	0	15.26	15.32	15.26	16
1.4	16QAM	1	0	15.63	15.58	15.59	16
1.4	16QAM	1	3	15.61	15.68	15.63	
1.4	16QAM	1	5	15.54	15.56	15.39	
1.4	16QAM	3	0	15.39	15.41	15.31	
1.4	16QAM	3	1	15.34	15.46	15.32	
1.4	16QAM	3	3	15.36	15.34	15.26	
1.4	16QAM	6	0	14.30	14.43	14.30	15
1.4	64QAM	1	0	14.38	14.53	14.43	15
1.4	64QAM	1	3	14.46	14.50	14.34	
1.4	64QAM	1	5	14.33	14.42	14.33	
1.4	64QAM	3	0	14.30	14.39	14.29	
1.4	64QAM	3	1	14.42	14.35	14.32	
1.4	64QAM	3	3	14.30	14.35	14.33	
1.4	64QAM	6	0	13.29	13.23	13.29	14
1.4	256QAM	1	0	11.37	11.51	11.31	12
1.4	256QAM	1	3	11.47	11.46	11.44	
1.4	256QAM	1	5	11.35	11.36	11.21	
1.4	256QAM	3	0	11.36	11.33	11.26	
1.4	256QAM	3	1	11.38	11.35	11.20	
1.4	256QAM	3	3	11.33	11.36	11.31	
1.4	256QAM	6	0	11.29	11.29	11.33	12



<LTE Band 2 MIMO2 Ant State 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				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	13.39	13.31	13.29	14
20	QPSK	1	49	13.16	13.12	13.08	
20	QPSK	1	99	13.22	13.15	13.05	
20	QPSK	50	0	13.32	13.28	13.25	14
20	QPSK	50	24	13.15	13.24	13.04	
20	QPSK	50	50	13.18	13.25	12.99	
20	QPSK	100	0	13.33	13.30	13.27	14
20	16QAM	1	0	13.32	13.25	13.25	
20	16QAM	1	49	13.07	13.08	12.98	
20	16QAM	1	99	13.12	13.12	12.96	14
20	16QAM	50	0	13.26	13.28	13.25	
20	16QAM	50	24	12.93	13.21	12.87	
20	16QAM	50	50	13.08	13.18	12.92	14
20	16QAM	100	0	13.32	13.20	13.16	
20	64QAM	1	0	13.30	13.21	13.17	
20	64QAM	1	49	12.99	12.99	12.99	14
20	64QAM	1	99	13.15	13.04	12.99	
20	64QAM	50	0	13.20	13.28	13.15	
20	64QAM	50	24	12.84	13.16	12.86	14
20	64QAM	50	50	13.08	13.15	12.83	
20	64QAM	100	0	13.31	13.16	13.09	
20	256QAM	1	0	13.34	13.15	13.22	14
20	256QAM	1	49	13.32	13.15	13.21	
20	256QAM	1	99	13.27	13.12	13.15	
20	256QAM	50	0	13.24	13.08	13.10	14
20	256QAM	50	24	13.17	12.99	13.00	
20	256QAM	50	50	13.10	12.89	12.90	
20	256QAM	100	0	13.07	12.82	12.90	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	13.35	13.29	13.19	14
15	QPSK	1	37	13.09	13.02	13.06	
15	QPSK	1	74	13.18	13.09	13.05	
15	QPSK	36	0	13.28	13.28	13.19	14
15	QPSK	36	20	13.08	13.20	13.02	
15	QPSK	36	39	13.13	13.20	12.93	
15	QPSK	75	0	13.33	13.26	13.27	14
15	16QAM	1	0	13.32	13.23	13.22	
15	16QAM	1	37	13.04	13.06	12.98	
15	16QAM	1	74	13.06	13.05	12.88	14
15	16QAM	36	0	13.21	13.27	13.22	
15	16QAM	36	20	12.87	13.19	12.84	
15	16QAM	36	39	13.00	13.11	12.85	14
15	16QAM	75	0	13.28	13.19	13.12	
15	64QAM	1	0	13.25	13.12	13.15	
15	64QAM	1	37	12.99	12.95	12.97	14
15	64QAM	1	74	13.15	12.99	12.90	
15	64QAM	36	0	13.15	13.26	13.09	
15	64QAM	36	20	12.83	13.15	12.77	14
15	64QAM	36	39	12.98	13.09	12.79	
15	64QAM	75	0	13.23	13.11	13.01	
15	256QAM	1	0	13.25	13.07	13.13	14
15	256QAM	1	37	13.29	13.08	13.11	
15	256QAM	1	74	13.21	13.03	13.10	
15	256QAM	36	0	13.16	12.99	13.07	14
15	256QAM	36	20	13.07	12.99	12.98	
15	256QAM	36	39	13.09	12.84	12.90	
15	256QAM	75	0	13.04	12.80	12.86	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	



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10	QPSK	1	0	13.29	13.22	13.14	14	
10	QPSK	1	25	13.01	13.02	13.03		
10	QPSK	1	49	13.18	13.08	13.01		
10	QPSK	25	0	13.21	13.20	13.14	14	
10	QPSK	25	12	12.99	13.12	12.98		
10	QPSK	25	25	13.09	13.10	12.85		
10	QPSK	50	0	13.28	13.26	13.19	14	
10	16QAM	1	0	13.30	13.13	13.12		
10	16QAM	1	25	12.97	13.00	12.97		
10	16QAM	1	49	12.96	13.02	12.81	14	
10	16QAM	25	0	13.12	13.19	13.15		
10	16QAM	25	12	12.86	13.18	12.83		
10	16QAM	25	25	12.96	13.10	12.83	14	
10	16QAM	50	0	13.20	13.17	13.09		
10	64QAM	1	0	13.17	13.09	13.11		
10	64QAM	1	25	12.95	12.95	12.87	14	
10	64QAM	1	49	13.06	12.97	12.90		
10	64QAM	25	0	13.12	13.18	13.04		
10	64QAM	25	12	12.81	13.09	12.70	14	
10	64QAM	25	25	12.89	13.03	12.78		
10	64QAM	50	0	13.16	13.09	12.98		
10	256QAM	1	0	13.19	12.97	13.11	14	
10	256QAM	1	25	13.24	13.06	13.10		
10	256QAM	1	49	13.14	13.00	13.05		
10	256QAM	25	0	13.16	12.97	13.07	14	
10	256QAM	25	12	13.03	12.92	12.97		
10	256QAM	25	25	13.05	12.84	12.89		
10	256QAM	50	0	13.01	12.70	12.81	14	
Channel				18625	18900	19175		Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	13.28	13.19	13.07	14	
5	QPSK	1	12	13.01	13.01	13.02		
5	QPSK	1	24	13.12	13.05	12.97		
5	QPSK	12	0	13.19	13.15	13.12	14	
5	QPSK	12	7	12.91	13.02	12.93		
5	QPSK	12	13	13.05	13.08	12.79		
5	QPSK	25	0	13.27	13.26	13.10	14	
5	16QAM	1	0	13.26	13.06	13.08		
5	16QAM	1	12	12.90	12.90	12.90		
5	16QAM	1	24	12.92	12.99	12.72	14	
5	16QAM	12	0	13.12	13.15	13.14		
5	16QAM	12	7	12.82	13.18	12.81		
5	16QAM	12	13	12.92	13.10	12.83	14	
5	16QAM	25	0	13.15	13.17	13.06		
5	64QAM	1	0	13.17	13.08	13.06		
5	64QAM	1	12	12.95	12.89	12.85	14	
5	64QAM	1	24	12.96	12.89	12.82		
5	64QAM	12	0	13.07	13.15	13.03		
5	64QAM	12	7	12.73	13.05	12.64	14	
5	64QAM	12	13	12.89	13.01	12.75		
5	64QAM	25	0	13.16	13.05	12.88		
5	256QAM	1	0	13.19	12.89	13.11	14	
5	256QAM	1	12	13.18	13.01	13.04		
5	256QAM	1	24	13.08	12.97	13.02		
5	256QAM	12	0	13.12	12.94	12.97	14	
5	256QAM	12	7	12.94	12.88	12.95		
5	256QAM	12	13	13.02	12.81	12.88		
5	256QAM	25	0	12.91	12.63	12.80	14	
Channel				18615	18900	19185		Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	13.21	13.12	13.06	14	
3	QPSK	1	8	13.00	13.01	12.99		
3	QPSK	1	14	13.08	12.98	12.96		
3	QPSK	8	0	13.13	13.11	13.07	14	
3	QPSK	8	4	12.90	12.99	12.84		
3	QPSK	8	7	13.03	13.07	12.72		



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3	QPSK	15	0	13.19	13.22	13.04	
3	16QAM	1	0	13.16	13.05	13.07	14
3	16QAM	1	8	12.85	12.85	12.85	
3	16QAM	1	14	12.86	12.94	12.72	
3	16QAM	8	0	13.11	13.09	13.05	14
3	16QAM	8	4	12.74	13.17	12.72	
3	16QAM	8	7	12.90	13.02	12.79	
3	16QAM	15	0	13.05	13.11	13.00	
3	64QAM	1	0	13.11	13.00	13.01	14
3	64QAM	1	8	12.92	12.83	12.76	
3	64QAM	1	14	12.90	12.85	12.77	
3	64QAM	8	0	13.05	13.15	12.96	14
3	64QAM	8	4	12.69	13.03	12.58	
3	64QAM	8	7	12.86	12.98	12.67	
3	64QAM	15	0	13.08	12.95	12.88	
3	256QAM	1	0	13.19	12.79	13.09	14
3	256QAM	1	8	13.16	12.99	12.94	
3	256QAM	1	14	13.05	12.94	12.99	
3	256QAM	8	0	13.09	12.87	12.91	14
3	256QAM	8	4	12.91	12.86	12.94	
3	256QAM	8	7	12.96	12.79	12.78	
3	256QAM	15	0	12.91	12.54	12.78	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	13.18	13.11	13.01	14
1.4	QPSK	1	3	12.97	13.00	12.89	
1.4	QPSK	1	5	13.01	12.97	12.91	
1.4	QPSK	3	0	13.09	13.02	13.04	
1.4	QPSK	3	1	12.86	12.93	12.81	
1.4	QPSK	3	3	12.96	13.06	12.66	
1.4	QPSK	6	0	13.13	13.22	12.97	14
1.4	16QAM	1	0	13.08	13.02	13.05	14
1.4	16QAM	1	3	12.79	12.76	12.84	
1.4	16QAM	1	5	12.80	12.85	12.68	
1.4	16QAM	3	0	13.06	13.05	13.05	
1.4	16QAM	3	1	12.74	13.10	12.68	
1.4	16QAM	3	3	12.86	12.93	12.71	
1.4	16QAM	6	0	13.00	13.03	12.96	14
1.4	64QAM	1	0	13.10	12.99	12.99	14
1.4	64QAM	1	3	12.89	12.82	12.73	
1.4	64QAM	1	5	12.85	12.80	12.68	
1.4	64QAM	3	0	13.01	13.06	12.91	
1.4	64QAM	3	1	12.63	12.96	12.53	
1.4	64QAM	3	3	12.78	12.91	12.57	
1.4	64QAM	6	0	13.03	12.86	12.88	14
1.4	256QAM	1	0	13.16	12.76	13.02	14
1.4	256QAM	1	3	13.10	12.94	12.91	
1.4	256QAM	1	5	12.99	12.86	12.98	
1.4	256QAM	3	0	13.02	12.79	12.82	
1.4	256QAM	3	1	12.90	12.78	12.86	
1.4	256QAM	3	3	12.92	12.73	12.71	
1.4	256QAM	6	0	12.90	12.45	12.73	14



LTE Band 4 Main Ant. State 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				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	15.73	15.58	15.59	16.5
20	QPSK	1	49	15.51	15.44	15.41	
20	QPSK	1	99	15.45	15.41	15.28	
20	QPSK	50	0	14.76	14.63	14.55	15.5
20	QPSK	50	24	14.80	14.67	14.52	
20	QPSK	50	50	14.67	14.63	14.50	
20	QPSK	100	0	14.79	14.62	14.46	15.5
20	16QAM	1	0	14.97	14.91	14.68	
20	16QAM	1	49	15.04	14.96	15.03	
20	16QAM	1	99	14.77	14.71	14.57	14.5
20	16QAM	50	0	13.78	13.69	13.52	
20	16QAM	50	24	13.78	13.65	13.50	
20	16QAM	50	50	13.62	13.60	13.54	14.5
20	16QAM	100	0	13.70	13.68	13.45	
20	64QAM	1	0	13.80	13.98	13.73	
20	64QAM	1	49	13.84	13.60	13.68	14.5
20	64QAM	1	99	13.80	13.65	13.55	
20	64QAM	50	0	12.73	12.70	12.51	
20	64QAM	50	24	12.70	12.61	12.51	13.5
20	64QAM	50	50	12.62	12.59	12.49	
20	64QAM	100	0	12.72	12.59	12.47	
20	256QAM	1	0	10.88	10.87	10.59	11.5
20	256QAM	1	49	10.77	10.73	10.58	
20	256QAM	1	99	10.62	10.66	10.53	
20	256QAM	50	0	10.79	10.67	10.61	11.5
20	256QAM	50	24	10.69	10.63	10.55	
20	256QAM	50	50	10.60	10.60	10.52	
20	256QAM	100	0	10.72	10.62	10.49	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	15.59	15.54	15.31	16.5
15	QPSK	1	37	15.63	15.48	15.36	
15	QPSK	1	74	15.45	15.43	15.25	
15	QPSK	36	0	14.80	14.68	14.50	15.5
15	QPSK	36	20	14.71	14.67	14.58	
15	QPSK	36	39	14.66	14.57	14.47	
15	QPSK	75	0	14.73	14.62	14.52	15.5
15	16QAM	1	0	15.02	14.84	14.63	
15	16QAM	1	37	14.85	14.82	14.63	
15	16QAM	1	74	14.75	14.63	14.57	14.5
15	16QAM	36	0	13.83	13.69	13.47	
15	16QAM	36	20	13.76	13.68	13.52	
15	16QAM	36	39	13.61	13.60	13.49	14.5
15	16QAM	75	0	13.66	13.66	13.52	
15	64QAM	1	0	13.71	13.63	13.55	
15	64QAM	1	37	13.85	13.63	13.54	14.5
15	64QAM	1	74	13.78	13.56	13.39	
15	64QAM	36	0	12.78	12.66	12.47	
15	64QAM	36	20	12.68	12.62	12.59	13.5
15	64QAM	36	39	12.61	12.59	12.46	
15	64QAM	75	0	12.68	12.64	12.53	
15	256QAM	1	0	10.87	10.80	10.51	11.5
15	256QAM	1	37	10.70	10.72	10.50	
15	256QAM	1	74	10.58	10.58	10.43	
15	256QAM	36	0	10.72	10.64	10.56	11.5
15	256QAM	36	20	10.59	10.59	10.54	
15	256QAM	36	39	10.60	10.55	10.50	
15	256QAM	75	0	10.69	10.62	10.47	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	



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10	QPSK	1	0	15.60	15.61	15.42	16.5
10	QPSK	1	25	15.62	15.61	15.45	
10	QPSK	1	49	15.56	15.46	15.35	
10	QPSK	25	0	14.94	14.80	14.64	15.5
10	QPSK	25	12	14.82	14.80	14.65	
10	QPSK	25	25	14.79	14.70	14.60	
10	QPSK	50	0	14.81	14.74	14.68	15.5
10	16QAM	1	0	14.92	14.93	14.79	
10	16QAM	1	25	15.03	14.82	14.76	
10	16QAM	1	49	14.98	14.89	14.79	14.5
10	16QAM	25	0	13.94	13.78	13.67	
10	16QAM	25	12	13.82	13.79	13.71	
10	16QAM	25	25	13.85	13.73	13.64	14.5
10	16QAM	50	0	13.79	13.76	13.65	
10	64QAM	1	0	13.83	13.76	13.78	
10	64QAM	1	25	13.93	13.93	13.62	14.5
10	64QAM	1	49	13.73	13.72	13.73	
10	64QAM	25	0	12.89	12.73	12.67	
10	64QAM	25	12	12.76	12.78	12.69	13.5
10	64QAM	25	25	12.75	12.75	12.55	
10	64QAM	50	0	12.76	12.76	12.61	
10	256QAM	1	0	10.87	10.85	10.52	11.5
10	256QAM	1	25	10.76	10.64	10.48	
10	256QAM	1	49	10.62	10.59	10.53	
10	256QAM	25	0	10.70	10.64	10.56	11.5
10	256QAM	25	12	10.64	10.63	10.53	
10	256QAM	25	25	10.54	10.54	10.47	
10	256QAM	50	0	10.71	10.61	10.39	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	15.66	15.63	15.44	16.5
5	QPSK	1	12	15.63	15.59	15.48	
5	QPSK	1	24	15.67	15.61	15.46	
5	QPSK	12	0	14.89	14.74	14.53	15.5
5	QPSK	12	7	14.84	14.75	14.62	
5	QPSK	12	13	14.85	14.74	14.62	
5	QPSK	25	0	14.86	14.74	14.51	15.5
5	16QAM	1	0	15.02	14.94	14.71	
5	16QAM	1	12	15.13	15.07	14.88	
5	16QAM	1	24	14.99	14.94	14.63	14.5
5	16QAM	12	0	13.93	13.73	13.59	
5	16QAM	12	7	13.86	13.79	13.64	
5	16QAM	12	13	13.89	13.78	13.62	14.5
5	16QAM	25	0	13.83	13.72	13.57	
5	64QAM	1	0	13.85	13.80	13.67	
5	64QAM	1	12	13.87	13.84	13.58	14.5
5	64QAM	1	24	13.93	13.81	13.65	
5	64QAM	12	0	12.90	12.76	12.52	
5	64QAM	12	7	12.82	12.73	12.65	13.5
5	64QAM	12	13	12.82	12.74	12.61	
5	64QAM	25	0	12.81	12.73	12.53	
5	256QAM	1	0	10.79	10.80	10.59	11.5
5	256QAM	1	12	10.76	10.65	10.55	
5	256QAM	1	24	10.52	10.63	10.43	
5	256QAM	12	0	10.79	10.57	10.61	11.5
5	256QAM	12	7	10.64	10.56	10.45	
5	256QAM	12	13	10.53	10.59	10.49	
5	256QAM	25	0	10.71	10.57	10.46	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	15.71	15.52	15.31	16.5
3	QPSK	1	8	15.70	15.58	15.44	
3	QPSK	1	14	15.65	15.52	15.35	
3	QPSK	8	0	14.91	14.70	14.62	15.5
3	QPSK	8	4	14.95	14.72	14.58	
3	QPSK	8	7	14.81	14.72	14.58	



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3	QPSK	15	0	14.81	14.72	14.53	
3	16QAM	1	0	14.97	14.89	14.70	15.5
3	16QAM	1	8	15.25	15.00	14.89	
3	16QAM	1	14	14.95	14.87	14.68	
3	16QAM	8	0	13.94	13.78	13.60	14.5
3	16QAM	8	4	13.96	13.85	13.64	
3	16QAM	8	7	13.90	13.77	13.58	
3	16QAM	15	0	13.87	13.72	13.61	14.5
3	64QAM	1	0	13.75	13.70	13.63	
3	64QAM	1	8	13.93	13.79	13.60	
3	64QAM	1	14	13.86	13.69	13.51	13.5
3	64QAM	8	0	12.86	12.72	12.57	
3	64QAM	8	4	12.95	12.69	12.63	
3	64QAM	8	7	12.82	12.78	12.57	11.5
3	64QAM	15	0	12.82	12.75	12.60	
3	256QAM	1	0	10.82	10.81	10.57	
3	256QAM	1	8	10.70	10.69	10.53	11.5
3	256QAM	1	14	10.58	10.60	10.49	
3	256QAM	8	0	10.70	10.61	10.51	
3	256QAM	8	4	10.68	10.56	10.45	Tune-up limit (dBm)
3	256QAM	8	7	10.54	10.57	10.44	
3	256QAM	15	0	10.65	10.62	10.47	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	15.66	15.56	15.36	16.5
1.4	QPSK	1	3	15.64	15.57	15.32	
1.4	QPSK	1	5	15.63	15.51	15.33	
1.4	QPSK	3	0	15.71	15.55	15.36	
1.4	QPSK	3	1	15.52	15.62	15.36	
1.4	QPSK	3	3	15.55	15.62	15.37	
1.4	QPSK	6	0	14.90	14.66	14.56	15.5
1.4	16QAM	1	0	14.89	14.92	14.71	15.5
1.4	16QAM	1	3	14.92	14.85	14.75	
1.4	16QAM	1	5	14.92	14.94	14.61	
1.4	16QAM	3	0	14.84	14.73	14.50	
1.4	16QAM	3	1	14.85	14.74	14.43	
1.4	16QAM	3	3	14.75	14.71	14.51	
1.4	16QAM	6	0	13.92	13.77	13.58	14.5
1.4	64QAM	1	0	13.73	13.78	13.52	14.5
1.4	64QAM	1	3	13.93	13.68	13.58	
1.4	64QAM	1	5	13.88	13.82	13.50	
1.4	64QAM	3	0	13.84	13.73	13.50	
1.4	64QAM	3	1	13.72	13.72	13.52	
1.4	64QAM	3	3	13.71	13.69	13.50	
1.4	64QAM	6	0	12.89	12.70	12.58	13.5
1.4	256QAM	1	0	10.82	10.80	10.58	11.5
1.4	256QAM	1	3	10.75	10.71	10.48	
1.4	256QAM	1	5	10.59	10.65	10.43	
1.4	256QAM	3	0	10.75	10.63	10.58	
1.4	256QAM	3	1	10.63	10.58	10.47	
1.4	256QAM	3	3	10.55	10.53	10.46	
1.4	256QAM	6	0	10.70	10.58	10.45	11.5



LTE Band 4 MIMO2 Ant State 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				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	18.19	17.90	18.03	18.5
20	QPSK	1	49	18.08	17.84	17.94	
20	QPSK	1	99	17.97	17.78	17.89	
20	QPSK	50	0	18.10	18.05	18.01	18.5
20	QPSK	50	24	18.05	18.06	17.90	
20	QPSK	50	50	17.87	18.02	17.86	
20	QPSK	100	0	18.06	18.01	18.01	18.5
20	16QAM	1	0	18.14	17.90	18.03	
20	16QAM	1	49	18.06	17.74	17.88	
20	16QAM	1	99	17.96	17.78	17.80	18.5
20	16QAM	50	0	18.01	17.95	17.96	
20	16QAM	50	24	18.04	17.97	17.85	
20	16QAM	50	50	17.82	17.99	17.80	18.5
20	16QAM	100	0	18.03	17.95	17.95	
20	64QAM	1	0	18.09	17.84	18.02	
20	64QAM	1	49	17.98	17.64	17.84	18.5
20	64QAM	1	99	17.95	17.73	17.73	
20	64QAM	50	0	17.95	17.88	17.88	
20	64QAM	50	24	18.01	17.91	17.78	18.5
20	64QAM	50	50	17.78	17.91	17.75	
20	64QAM	100	0	17.97	17.85	17.94	
20	256QAM	1	0	17.02	16.93	16.91	17.5
20	256QAM	1	49	17.02	16.88	16.84	
20	256QAM	1	99	16.92	16.88	16.80	
20	256QAM	50	0	16.91	16.84	16.70	17.5
20	256QAM	50	24	16.85	16.75	16.62	
20	256QAM	50	50	16.79	16.69	16.60	
20	256QAM	100	0	16.78	16.61	16.56	
Channel				20025	20175	20325	18.5
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.13	17.83	17.99	18.5
15	QPSK	1	37	18.08	17.81	17.93	
15	QPSK	1	74	17.92	17.70	17.88	
15	QPSK	36	0	18.08	18.00	17.93	18.5
15	QPSK	36	20	17.97	18.02	17.88	
15	QPSK	36	39	17.78	18.00	17.84	
15	QPSK	75	0	18.00	17.92	17.95	18.5
15	16QAM	1	0	18.05	17.82	18.03	
15	16QAM	1	37	18.04	17.67	17.78	
15	16QAM	1	74	17.94	17.68	17.78	18.5
15	16QAM	36	0	17.94	17.90	17.91	
15	16QAM	36	20	18.01	17.95	17.84	
15	16QAM	36	39	17.76	17.95	17.75	18.5
15	16QAM	75	0	17.93	17.91	17.92	
15	64QAM	1	0	18.03	17.79	18.01	
15	64QAM	1	37	17.92	17.58	17.76	18.5
15	64QAM	1	74	17.89	17.66	17.70	
15	64QAM	36	0	17.85	17.80	17.80	
15	64QAM	36	20	17.92	17.83	17.73	18.5
15	64QAM	36	39	17.73	17.87	17.74	
15	64QAM	75	0	17.93	17.79	17.94	
15	256QAM	1	0	16.92	16.88	16.83	17.5
15	256QAM	1	37	17.01	16.79	16.75	
15	256QAM	1	74	16.87	16.80	16.74	
15	256QAM	36	0	16.89	16.80	16.61	17.5
15	256QAM	36	20	16.82	16.67	16.60	
15	256QAM	36	39	16.73	16.60	16.50	
15	256QAM	75	0	16.73	16.60	16.52	
Channel				20000	20175	20350	17.5
Frequency (MHz)				1715	1732.5	1750	



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10	QPSK	1	0	18.05	17.76	17.94	18.5	
10	QPSK	1	25	17.98	17.72	17.86		
10	QPSK	1	49	17.89	17.66	17.86		
10	QPSK	25	0	18.02	17.92	17.87	18.5	
10	QPSK	25	12	17.87	17.96	17.86		
10	QPSK	25	25	17.73	17.98	17.74		
10	QPSK	50	0	17.93	17.91	17.86	18.5	
10	16QAM	1	0	18.04	17.79	17.96		
10	16QAM	1	25	18.02	17.58	17.68		
10	16QAM	1	49	17.90	17.68	17.68	18.5	
10	16QAM	25	0	17.90	17.85	17.81		
10	16QAM	25	12	17.96	17.89	17.83		
10	16QAM	25	25	17.71	17.94	17.73	18.5	
10	16QAM	50	0	17.86	17.83	17.84		
10	64QAM	1	0	17.96	17.74	17.94		
10	64QAM	1	25	17.85	17.56	17.66	18.5	
10	64QAM	1	49	17.87	17.57	17.63		
10	64QAM	25	0	17.80	17.77	17.80		
10	64QAM	25	12	17.84	17.76	17.69	18.5	
10	64QAM	25	25	17.70	17.78	17.68		
10	64QAM	50	0	17.88	17.71	17.91		
10	256QAM	1	0	16.86	16.88	16.82	17.5	
10	256QAM	1	25	16.98	16.77	16.66		
10	256QAM	1	49	16.77	16.72	16.65		
10	256QAM	25	0	16.79	16.80	16.60	17.5	
10	256QAM	25	12	16.82	16.67	16.52		
10	256QAM	25	25	16.71	16.52	16.52		
10	256QAM	50	0	16.64	16.55	16.57	17.5	
Channel				19975	20175	20375		Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	18.05	17.69	17.85	18.5	
5	QPSK	1	12	17.94	17.62	17.77		
5	QPSK	1	24	17.81	17.62	17.80		
5	QPSK	12	0	18.00	17.85	17.83	18.5	
5	QPSK	12	7	17.82	17.88	17.79		
5	QPSK	12	13	17.66	17.88	17.68		
5	QPSK	25	0	17.90	17.91	17.78	18.5	
5	16QAM	1	0	17.98	17.79	17.96		
5	16QAM	1	12	18.02	17.55	17.63		
5	16QAM	1	24	17.82	17.62	17.60	18.5	
5	16QAM	12	0	17.83	17.81	17.80		
5	16QAM	12	7	17.87	17.85	17.76		
5	16QAM	12	13	17.67	17.88	17.73	18.5	
5	16QAM	25	0	17.84	17.74	17.83		
5	64QAM	1	0	17.87	17.70	17.84		
5	64QAM	1	12	17.84	17.58	17.59	18.5	
5	64QAM	1	24	17.80	17.52	17.61		
5	64QAM	12	0	17.77	17.69	17.74		
5	64QAM	12	7	17.79	17.71	17.61	18.5	
5	64QAM	12	13	17.64	17.75	17.59		
5	64QAM	25	0	17.81	17.61	17.87		
5	256QAM	1	0	16.85	16.85	16.75	17.5	
5	256QAM	1	12	16.91	16.76	16.56		
5	256QAM	1	24	16.71	16.72	16.55		
5	256QAM	12	0	16.75	16.76	16.56	17.5	
5	256QAM	12	7	16.81	16.61	16.59		
5	256QAM	12	13	16.63	16.55	16.54		
5	256QAM	25	0	16.57	16.59	16.57	17.5	
Channel				19965	20175	20385		Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	17.97	17.68	17.78	18.5	
3	QPSK	1	8	17.92	17.57	17.69		
3	QPSK	1	14	17.78	17.53	17.73		
3	QPSK	8	0	18.00	17.77	17.78	18.5	
3	QPSK	8	4	17.81	17.85	17.70		
3	QPSK	8	7	17.58	17.82	17.61		



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3	QPSK	15	0	17.89	17.81	17.71	
3	16QAM	1	0	17.90	17.75	17.88	18.5
3	16QAM	1	8	17.98	17.50	17.60	
3	16QAM	1	14	17.79	17.60	17.57	
3	16QAM	8	0	17.77	17.76	17.75	18.5
3	16QAM	8	4	17.77	17.78	17.71	
3	16QAM	8	7	17.64	17.78	17.64	
3	16QAM	15	0	17.74	17.71	17.78	18.5
3	64QAM	1	0	17.77	17.66	17.74	
3	64QAM	1	8	17.82	17.52	17.51	
3	64QAM	1	14	17.77	17.51	17.57	18.5
3	64QAM	8	0	17.68	17.65	17.67	
3	64QAM	8	4	17.77	17.67	17.56	
3	64QAM	8	7	17.55	17.67	17.55	18.5
3	64QAM	15	0	17.71	17.61	17.79	
3	256QAM	1	0	16.83	16.80	16.67	
3	256QAM	1	8	16.88	16.70	16.55	17.5
3	256QAM	1	14	16.68	16.66	16.46	
3	256QAM	8	0	16.75	16.72	16.51	
3	256QAM	8	4	16.80	16.51	16.43	17.5
3	256QAM	8	7	16.63	16.36	16.24	
3	256QAM	15	0	16.53	16.45	16.29	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	17.94	17.67	17.73	18.5
1.4	QPSK	1	3	17.85	17.59	17.67	
1.4	QPSK	1	5	17.77	17.50	17.64	
1.4	QPSK	3	0	17.98	17.71	17.68	
1.4	QPSK	3	1	17.80	17.76	17.69	
1.4	QPSK	3	3	17.51	17.82	17.61	
1.4	QPSK	6	0	17.79	17.77	17.71	18.5
1.4	16QAM	1	0	17.85	17.72	17.88	18.5
1.4	16QAM	1	3	17.95	17.58	17.52	
1.4	16QAM	1	5	17.70	17.50	17.50	
1.4	16QAM	3	0	17.71	17.75	17.70	
1.4	16QAM	3	1	17.67	17.78	17.63	
1.4	16QAM	3	3	17.55	17.75	17.56	
1.4	16QAM	6	0	17.65	17.61	17.75	18.5
1.4	64QAM	1	0	17.68	17.64	17.66	18.5
1.4	64QAM	1	3	17.81	17.54	17.59	
1.4	64QAM	1	5	17.73	17.54	17.57	
1.4	64QAM	3	0	17.59	17.63	17.60	
1.4	64QAM	3	1	17.74	17.64	17.55	
1.4	64QAM	3	3	17.58	17.66	17.58	
1.4	64QAM	6	0	17.65	17.53	17.79	18.5
1.4	256QAM	1	0	16.76	16.76	16.57	17.5
1.4	256QAM	1	3	16.80	16.67	16.55	
1.4	256QAM	1	5	16.66	16.59	16.38	
1.4	256QAM	3	0	16.73	16.64	16.46	
1.4	256QAM	3	1	16.80	16.44	16.40	
1.4	256QAM	3	3	16.55	16.34	16.21	
1.4	256QAM	6	0	16.50	16.37	16.24	17.5



◀LTE Band 4 Main Ant. State 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				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	15.73	15.58	15.59	16.5
20	QPSK	1	49	15.51	15.44	15.41	
20	QPSK	1	99	15.45	15.41	15.28	
20	QPSK	50	0	14.76	14.63	14.55	15.5
20	QPSK	50	24	14.80	14.67	14.52	
20	QPSK	50	50	14.67	14.63	14.50	
20	QPSK	100	0	14.79	14.62	14.46	
20	16QAM	1	0	14.97	14.91	14.68	15.5
20	16QAM	1	49	15.04	14.96	15.03	
20	16QAM	1	99	14.77	14.71	14.57	
20	16QAM	50	0	13.78	13.69	13.52	14.5
20	16QAM	50	24	13.78	13.65	13.50	
20	16QAM	50	50	13.62	13.60	13.54	
20	16QAM	100	0	13.70	13.68	13.45	
20	64QAM	1	0	13.80	13.98	13.73	14.5
20	64QAM	1	49	13.84	13.60	13.68	
20	64QAM	1	99	13.80	13.65	13.55	
20	64QAM	50	0	12.73	12.70	12.51	13.5
20	64QAM	50	24	12.70	12.61	12.51	
20	64QAM	50	50	12.62	12.59	12.49	
20	64QAM	100	0	12.72	12.59	12.47	
20	256QAM	1	0	10.88	10.87	10.59	11.5
20	256QAM	1	49	10.77	10.73	10.58	
20	256QAM	1	99	10.62	10.66	10.53	
20	256QAM	50	0	10.79	10.67	10.61	11.5
20	256QAM	50	24	10.69	10.63	10.55	
20	256QAM	50	50	10.60	10.60	10.52	
20	256QAM	100	0	10.72	10.62	10.49	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	15.59	15.54	15.31	16.5
15	QPSK	1	37	15.63	15.48	15.36	
15	QPSK	1	74	15.45	15.43	15.25	
15	QPSK	36	0	14.80	14.68	14.50	15.5
15	QPSK	36	20	14.71	14.67	14.58	
15	QPSK	36	39	14.66	14.57	14.47	
15	QPSK	75	0	14.73	14.62	14.52	15.5
15	16QAM	1	0	15.02	14.84	14.63	
15	16QAM	1	37	14.85	14.82	14.63	
15	16QAM	1	74	14.75	14.63	14.57	
15	16QAM	36	0	13.83	13.69	13.47	14.5
15	16QAM	36	20	13.76	13.68	13.52	
15	16QAM	36	39	13.61	13.60	13.49	
15	16QAM	75	0	13.66	13.66	13.52	14.5
15	64QAM	1	0	13.71	13.63	13.55	
15	64QAM	1	37	13.85	13.63	13.54	
15	64QAM	1	74	13.78	13.56	13.39	
15	64QAM	36	0	12.78	12.66	12.47	13.5
15	64QAM	36	20	12.68	12.62	12.59	
15	64QAM	36	39	12.61	12.59	12.46	
15	64QAM	75	0	12.68	12.64	12.53	
15	256QAM	1	0	10.87	10.80	10.51	11.5
15	256QAM	1	37	10.70	10.72	10.50	
15	256QAM	1	74	10.58	10.58	10.43	
15	256QAM	36	0	10.72	10.64	10.56	11.5
15	256QAM	36	20	10.59	10.59	10.54	
15	256QAM	36	39	10.60	10.55	10.50	
15	256QAM	75	0	10.69	10.62	10.47	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	



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10	QPSK	1	0	15.60	15.61	15.42	16.5
10	QPSK	1	25	15.62	15.61	15.45	
10	QPSK	1	49	15.56	15.46	15.35	
10	QPSK	25	0	14.94	14.80	14.64	15.5
10	QPSK	25	12	14.82	14.80	14.65	
10	QPSK	25	25	14.79	14.70	14.60	
10	QPSK	50	0	14.81	14.74	14.68	15.5
10	16QAM	1	0	14.92	14.93	14.79	
10	16QAM	1	25	15.03	14.82	14.76	
10	16QAM	1	49	14.98	14.89	14.79	14.5
10	16QAM	25	0	13.94	13.78	13.67	
10	16QAM	25	12	13.82	13.79	13.71	
10	16QAM	25	25	13.85	13.73	13.64	14.5
10	16QAM	50	0	13.79	13.76	13.65	
10	64QAM	1	0	13.83	13.76	13.78	
10	64QAM	1	25	13.93	13.93	13.62	14.5
10	64QAM	1	49	13.73	13.72	13.73	
10	64QAM	25	0	12.89	12.73	12.67	
10	64QAM	25	12	12.76	12.78	12.69	13.5
10	64QAM	25	25	12.75	12.75	12.55	
10	64QAM	50	0	12.76	12.76	12.61	
10	256QAM	1	0	10.87	10.85	10.52	11.5
10	256QAM	1	25	10.76	10.64	10.48	
10	256QAM	1	49	10.62	10.59	10.53	
10	256QAM	25	0	10.70	10.64	10.56	11.5
10	256QAM	25	12	10.64	10.63	10.53	
10	256QAM	25	25	10.54	10.54	10.47	
10	256QAM	50	0	10.71	10.61	10.39	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	15.66	15.63	15.44	16.5
5	QPSK	1	12	15.63	15.59	15.48	
5	QPSK	1	24	15.67	15.61	15.46	
5	QPSK	12	0	14.89	14.74	14.53	15.5
5	QPSK	12	7	14.84	14.75	14.62	
5	QPSK	12	13	14.85	14.74	14.62	
5	QPSK	25	0	14.86	14.74	14.51	15.5
5	16QAM	1	0	15.02	14.94	14.71	
5	16QAM	1	12	15.13	15.07	14.88	
5	16QAM	1	24	14.99	14.94	14.63	14.5
5	16QAM	12	0	13.93	13.73	13.59	
5	16QAM	12	7	13.86	13.79	13.64	
5	16QAM	12	13	13.89	13.78	13.62	14.5
5	16QAM	25	0	13.83	13.72	13.57	
5	64QAM	1	0	13.85	13.80	13.67	
5	64QAM	1	12	13.87	13.84	13.58	14.5
5	64QAM	1	24	13.93	13.81	13.65	
5	64QAM	12	0	12.90	12.76	12.52	
5	64QAM	12	7	12.82	12.73	12.65	13.5
5	64QAM	12	13	12.82	12.74	12.61	
5	64QAM	25	0	12.81	12.73	12.53	
5	256QAM	1	0	10.79	10.80	10.59	11.5
5	256QAM	1	12	10.76	10.65	10.55	
5	256QAM	1	24	10.52	10.63	10.43	
5	256QAM	12	0	10.79	10.57	10.61	11.5
5	256QAM	12	7	10.64	10.56	10.45	
5	256QAM	12	13	10.53	10.59	10.49	
5	256QAM	25	0	10.71	10.57	10.46	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	15.71	15.52	15.31	16.5
3	QPSK	1	8	15.70	15.58	15.44	
3	QPSK	1	14	15.65	15.52	15.35	
3	QPSK	8	0	14.91	14.70	14.62	15.5
3	QPSK	8	4	14.95	14.72	14.58	
3	QPSK	8	7	14.81	14.72	14.58	



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3	QPSK	15	0	14.81	14.72	14.53	
3	16QAM	1	0	14.97	14.89	14.70	15.5
3	16QAM	1	8	15.25	15.00	14.89	
3	16QAM	1	14	14.95	14.87	14.68	
3	16QAM	8	0	13.94	13.78	13.60	14.5
3	16QAM	8	4	13.96	13.85	13.64	
3	16QAM	8	7	13.90	13.77	13.58	
3	16QAM	15	0	13.87	13.72	13.61	14.5
3	64QAM	1	0	13.75	13.70	13.63	
3	64QAM	1	8	13.93	13.79	13.60	
3	64QAM	1	14	13.86	13.69	13.51	13.5
3	64QAM	8	0	12.86	12.72	12.57	
3	64QAM	8	4	12.95	12.69	12.63	
3	64QAM	8	7	12.82	12.78	12.57	11.5
3	64QAM	15	0	12.82	12.75	12.60	
3	256QAM	1	0	10.82	10.81	10.57	
3	256QAM	1	8	10.70	10.69	10.53	11.5
3	256QAM	1	14	10.58	10.60	10.49	
3	256QAM	8	0	10.70	10.61	10.51	
3	256QAM	8	4	10.68	10.56	10.45	11.5
3	256QAM	8	7	10.54	10.57	10.44	
3	256QAM	15	0	10.65	10.62	10.47	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	15.66	15.56	15.36	16.5
1.4	QPSK	1	3	15.64	15.57	15.32	
1.4	QPSK	1	5	15.63	15.51	15.33	
1.4	QPSK	3	0	15.71	15.55	15.36	
1.4	QPSK	3	1	15.52	15.62	15.36	
1.4	QPSK	3	3	15.55	15.62	15.37	15.5
1.4	QPSK	6	0	14.90	14.66	14.56	
1.4	16QAM	1	0	14.89	14.92	14.71	15.5
1.4	16QAM	1	3	14.92	14.85	14.75	
1.4	16QAM	1	5	14.92	14.94	14.61	
1.4	16QAM	3	0	14.84	14.73	14.50	
1.4	16QAM	3	1	14.85	14.74	14.43	
1.4	16QAM	3	3	14.75	14.71	14.51	14.5
1.4	16QAM	6	0	13.92	13.77	13.58	
1.4	64QAM	1	0	13.73	13.78	13.52	14.5
1.4	64QAM	1	3	13.93	13.68	13.58	
1.4	64QAM	1	5	13.88	13.82	13.50	
1.4	64QAM	3	0	13.84	13.73	13.50	
1.4	64QAM	3	1	13.72	13.72	13.52	
1.4	64QAM	3	3	13.71	13.69	13.50	13.5
1.4	64QAM	6	0	12.89	12.70	12.58	
1.4	256QAM	1	0	10.82	10.80	10.58	11.5
1.4	256QAM	1	3	10.75	10.71	10.48	
1.4	256QAM	1	5	10.59	10.65	10.43	
1.4	256QAM	3	0	10.75	10.63	10.58	
1.4	256QAM	3	1	10.63	10.58	10.47	
1.4	256QAM	3	3	10.55	10.53	10.46	11.5
1.4	256QAM	6	0	10.70	10.58	10.45	



LTE Band 4 MIMO2 Ant State 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				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	15.04	14.70	14.80	15.5
20	QPSK	1	49	14.96	14.66	14.70	
20	QPSK	1	99	14.85	14.59	14.64	
20	QPSK	50	0	15.00	14.91	14.78	15.5
20	QPSK	50	24	14.93	14.89	14.61	
20	QPSK	50	50	14.80	14.84	14.62	
20	QPSK	100	0	14.94	14.90	14.72	15.5
20	16QAM	1	0	15.02	14.64	14.70	
20	16QAM	1	49	14.89	14.58	14.67	
20	16QAM	1	99	14.77	14.55	14.63	15.5
20	16QAM	50	0	14.93	14.87	14.69	
20	16QAM	50	24	14.83	14.88	14.56	
20	16QAM	50	50	14.70	14.79	14.54	15.5
20	16QAM	100	0	14.89	14.86	14.68	
20	64QAM	1	0	14.94	14.58	14.64	
20	64QAM	1	49	14.79	14.51	14.60	15.5
20	64QAM	1	99	14.69	14.53	14.59	
20	64QAM	50	0	14.85	14.83	14.61	
20	64QAM	50	24	14.73	14.81	14.53	15.5
20	64QAM	50	50	14.62	14.77	14.52	
20	64QAM	100	0	14.80	14.86	14.60	
20	256QAM	1	0	14.57	14.52	14.40	15.5
20	256QAM	1	49	14.49	14.52	14.34	
20	256QAM	1	99	14.42	14.48	14.29	
20	256QAM	50	0	14.37	14.47	14.29	15.5
20	256QAM	50	24	14.30	14.47	14.28	
20	256QAM	50	50	14.20	14.40	14.26	
20	256QAM	100	0	14.17	14.36	14.17	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	15.00	14.65	14.79	15.5
15	QPSK	1	37	14.93	14.62	14.63	
15	QPSK	1	74	14.78	14.56	14.55	
15	QPSK	36	0	14.99	14.86	14.77	15.5
15	QPSK	36	20	14.85	14.85	14.60	
15	QPSK	36	39	14.72	14.82	14.57	
15	QPSK	75	0	14.85	14.83	14.67	15.5
15	16QAM	1	0	15.02	14.58	14.70	
15	16QAM	1	37	14.88	14.51	14.57	
15	16QAM	1	74	14.69	14.47	14.58	15.5
15	16QAM	36	0	14.83	14.78	14.62	
15	16QAM	36	20	14.83	14.87	14.51	
15	16QAM	36	39	14.67	14.72	14.52	15.5
15	16QAM	75	0	14.79	14.78	14.64	
15	64QAM	1	0	14.85	14.58	14.58	
15	64QAM	1	37	14.78	14.47	14.50	15.5
15	64QAM	1	74	14.65	14.45	14.56	
15	64QAM	36	0	14.77	14.73	14.51	
15	64QAM	36	20	14.64	14.71	14.44	15.5
15	64QAM	36	39	14.56	14.69	14.42	
15	64QAM	75	0	14.80	14.82	14.57	
15	256QAM	1	0	14.51	14.42	14.30	15.5
15	256QAM	1	37	14.45	14.52	14.34	
15	256QAM	1	74	14.39	14.39	14.24	
15	256QAM	36	0	14.32	14.42	14.29	15.5
15	256QAM	36	20	14.29	14.44	14.19	
15	256QAM	36	39	14.12	14.34	14.22	
15	256QAM	75	0	14.09	14.27	14.11	
Channel				19950	20175	20400	Tune-up limit (dBm)
Frequency (MHz)				1710	1732.5	1755	



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10	QPSK	1	0	14.93	14.60	14.70	15.5
10	QPSK	1	25	14.91	14.60	14.56	
10	QPSK	1	49	14.76	14.56	14.45	
10	QPSK	25	0	14.89	14.81	14.71	15.5
10	QPSK	25	12	14.75	14.75	14.57	
10	QPSK	25	25	14.66	14.81	14.54	
10	QPSK	50	0	14.79	14.79	14.67	15.5
10	16QAM	1	0	15.00	14.57	14.61	
10	16QAM	1	25	14.78	14.49	14.57	
10	16QAM	1	49	14.66	14.40	14.50	15.5
10	16QAM	25	0	14.74	14.74	14.53	
10	16QAM	25	12	14.83	14.81	14.45	
10	16QAM	25	25	14.62	14.66	14.46	15.5
10	16QAM	50	0	14.75	14.70	14.63	
10	64QAM	1	0	14.81	14.48	14.58	
10	64QAM	1	25	14.76	14.41	14.46	15.5
10	64QAM	1	49	14.61	14.41	14.47	
10	64QAM	25	0	14.71	14.64	14.41	
10	64QAM	25	12	14.59	14.64	14.42	15.5
10	64QAM	25	25	14.47	14.59	14.42	
10	64QAM	50	0	14.70	14.81	14.56	
10	256QAM	1	0	14.46	14.41	14.27	15.5
10	256QAM	1	25	14.37	14.46	14.33	
10	256QAM	1	49	14.30	14.36	14.19	
10	256QAM	25	0	14.28	14.39	14.28	15.5
10	256QAM	25	12	14.28	14.35	14.12	
10	256QAM	25	25	14.02	14.31	14.20	
10	256QAM	50	0	14.05	14.27	14.11	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	14.83	14.55	14.67	15.5
5	QPSK	1	12	14.85	14.58	14.51	
5	QPSK	1	24	14.73	14.56	14.45	
5	QPSK	12	0	14.86	14.72	14.63	15.5
5	QPSK	12	7	14.70	14.65	14.57	
5	QPSK	12	13	14.61	14.80	14.53	
5	QPSK	25	0	14.78	14.76	14.66	15.5
5	16QAM	1	0	14.99	14.56	14.60	
5	16QAM	1	12	14.75	14.49	14.57	
5	16QAM	1	24	14.58	14.36	14.50	15.5
5	16QAM	12	0	14.74	14.74	14.49	
5	16QAM	12	7	14.81	14.75	14.35	
5	16QAM	12	13	14.56	14.56	14.43	15.5
5	16QAM	25	0	14.74	14.70	14.55	
5	64QAM	1	0	14.79	14.41	14.48	
5	64QAM	1	12	14.68	14.39	14.41	15.5
5	64QAM	1	24	14.55	14.40	14.45	
5	64QAM	12	0	14.61	14.56	14.39	
5	64QAM	12	7	14.59	14.57	14.40	15.5
5	64QAM	12	13	14.47	14.59	14.36	
5	64QAM	25	0	14.65	14.75	14.54	
5	256QAM	1	0	14.36	14.40	14.20	15.5
5	256QAM	1	12	14.31	14.38	14.33	
5	256QAM	1	24	14.22	14.28	14.10	
5	256QAM	12	0	14.28	14.31	14.27	15.5
5	256QAM	12	7	14.20	14.34	14.11	
5	256QAM	12	13	14.06	14.30	14.19	
5	256QAM	25	0	14.05	14.17	14.05	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	14.74	14.52	14.64	15.5
3	QPSK	1	8	14.75	14.54	14.41	
3	QPSK	1	14	14.70	14.51	14.41	
3	QPSK	8	0	14.77	14.66	14.61	15.5
3	QPSK	8	4	14.66	14.56	14.48	
3	QPSK	8	7	14.54	14.77	14.43	



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3	QPSK	15	0	14.72	14.70	14.61	
3	16QAM	1	0	14.94	14.56	14.53	15.5
3	16QAM	1	8	14.74	14.39	14.47	
3	16QAM	1	14	14.50	14.34	14.46	
3	16QAM	8	0	14.68	14.72	14.43	15.5
3	16QAM	8	4	14.73	14.75	14.33	
3	16QAM	8	7	14.51	14.54	14.34	
3	16QAM	15	0	14.74	14.66	14.49	15.5
3	64QAM	1	0	14.73	14.33	14.39	
3	64QAM	1	8	14.61	14.29	14.31	
3	64QAM	1	14	14.55	14.37	14.45	15.5
3	64QAM	8	0	14.52	14.47	14.29	
3	64QAM	8	4	14.50	14.50	14.33	
3	64QAM	8	7	14.37	14.58	14.27	15.5
3	64QAM	15	0	14.55	14.70	14.52	
3	256QAM	1	0	14.33	14.32	14.15	
3	256QAM	1	8	14.23	14.37	14.23	15.5
3	256QAM	1	14	14.14	14.26	14.08	
3	256QAM	8	0	14.24	14.26	14.25	
3	256QAM	8	4	14.17	14.27	14.10	15.5
3	256QAM	8	7	14.09	14.30	14.13	
3	256QAM	15	0	14.00	14.15	14.02	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	14.66	14.44	14.64	15.5
1.4	QPSK	1	3	14.75	14.47	14.39	
1.4	QPSK	1	5	14.63	14.44	14.40	
1.4	QPSK	3	0	14.70	14.60	14.60	
1.4	QPSK	3	1	14.64	14.52	14.46	
1.4	QPSK	3	3	14.45	14.70	14.39	
1.4	QPSK	6	0	14.72	14.63	14.51	15.5
1.4	16QAM	1	0	14.92	14.53	14.43	15.5
1.4	16QAM	1	3	14.66	14.30	14.42	
1.4	16QAM	1	5	14.40	14.26	14.40	
1.4	16QAM	3	0	14.66	14.72	14.33	
1.4	16QAM	3	1	14.65	14.73	14.32	
1.4	16QAM	3	3	14.49	14.48	14.32	
1.4	16QAM	6	0	14.64	14.65	14.42	15.5
1.4	64QAM	1	0	14.64	14.27	14.35	15.5
1.4	64QAM	1	3	14.51	14.21	14.22	
1.4	64QAM	1	5	14.47	14.36	14.36	
1.4	64QAM	3	0	14.45	14.42	14.23	
1.4	64QAM	3	1	14.47	14.48	14.29	
1.4	64QAM	3	3	14.32	14.57	14.22	
1.4	64QAM	6	0	14.52	14.70	14.51	15.5
1.4	256QAM	1	0	14.24	14.31	14.12	15.5
1.4	256QAM	1	3	14.19	14.31	14.20	
1.4	256QAM	1	5	14.07	14.24	14.01	
1.4	256QAM	3	0	14.17	14.24	14.23	
1.4	256QAM	3	1	14.14	14.22	14.01	
1.4	256QAM	3	3	14.05	14.26	14.06	
1.4	256QAM	6	0	14.03	14.11	14.05	15.5



◀LTE Band 5 Main Ant. State 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				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.09	22.02	22.20	
10	QPSK	1	25	22.05	22.19	22.18	23
10	QPSK	1	49	22.03	22.11	22.10	
10	QPSK	25	0	21.19	21.27	21.21	
10	QPSK	25	12	21.13	21.18	21.19	22
10	QPSK	25	25	21.14	21.12	21.17	
10	QPSK	50	0	21.18	21.13	21.16	
10	16QAM	1	0	21.48	21.43	21.49	22
10	16QAM	1	25	21.39	21.48	21.42	
10	16QAM	1	49	21.48	21.41	21.45	
10	16QAM	25	0	20.15	20.11	20.26	21
10	16QAM	25	12	20.22	20.19	20.21	
10	16QAM	25	25	20.16	20.29	20.19	
10	16QAM	50	0	20.20	20.15	20.19	21
10	64QAM	1	0	20.43	20.29	20.42	
10	64QAM	1	25	20.32	20.42	20.45	
10	64QAM	1	49	20.24	20.45	20.27	20
10	64QAM	25	0	19.16	19.08	19.23	
10	64QAM	25	12	19.19	19.19	19.20	
10	64QAM	25	25	19.14	19.28	19.18	18
10	64QAM	50	0	19.18	19.17	19.21	
10	256QAM	1	0	17.47	17.37	17.60	
10	256QAM	1	25	17.51	17.75	17.63	18
10	256QAM	1	49	17.54	17.43	17.58	
10	256QAM	25	0	17.40	17.40	17.50	
10	256QAM	25	12	17.35	17.40	17.47	18
10	256QAM	25	25	17.40	17.34	17.54	
10	256QAM	50	0	17.51	17.35	17.57	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	21.97	21.90	22.11	
5	QPSK	1	12	22.00	22.15	22.15	23
5	QPSK	1	24	21.91	22.02	22.03	
5	QPSK	12	0	21.07	21.11	21.05	
5	QPSK	12	7	20.97	21.03	21.10	22
5	QPSK	12	13	21.03	20.93	21.09	
5	QPSK	25	0	20.99	21.07	20.98	
5	16QAM	1	0	21.31	21.37	21.30	22
5	16QAM	1	12	21.23	21.42	21.27	
5	16QAM	1	24	21.31	21.33	21.45	
5	16QAM	12	0	19.97	19.92	20.11	21
5	16QAM	12	7	20.14	20.02	20.13	
5	16QAM	12	13	19.96	20.28	20.03	
5	16QAM	25	0	20.19	20.00	20.09	21
5	64QAM	1	0	20.40	20.10	20.42	
5	64QAM	1	12	20.19	20.42	20.27	
5	64QAM	1	24	20.08	20.44	20.19	20
5	64QAM	12	0	19.01	18.93	19.07	
5	64QAM	12	7	19.01	19.10	19.09	
5	64QAM	12	13	19.06	19.21	19.01	18
5	64QAM	25	0	19.05	19.12	19.17	
5	256QAM	1	0	17.41	17.19	17.43	
5	256QAM	1	12	17.34	17.72	17.58	18
5	256QAM	1	24	17.38	17.28	17.46	
5	256QAM	12	0	17.24	17.24	17.45	
5	256QAM	12	7	17.17	17.30	17.42	18
5	256QAM	12	13	17.37	17.31	17.52	
5	256QAM	25	0	17.39	17.23	17.54	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	



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3	QPSK	1	0	22.04	21.84	22.02	23
3	QPSK	1	8	21.94	22.14	21.99	
3	QPSK	1	14	21.98	22.09	22.10	
3	QPSK	8	0	21.09	21.27	21.17	22
3	QPSK	8	4	21.08	21.09	21.06	
3	QPSK	8	7	21.07	21.04	20.99	
3	QPSK	15	0	21.08	20.96	21.08	22
3	16QAM	1	0	21.31	21.40	21.41	
3	16QAM	1	8	21.39	21.41	21.26	
3	16QAM	1	14	21.33	21.33	21.30	21
3	16QAM	8	0	19.97	20.10	20.22	
3	16QAM	8	4	20.19	20.01	20.10	
3	16QAM	8	7	20.06	20.10	20.17	21
3	16QAM	15	0	20.05	20.00	20.10	
3	64QAM	1	0	20.24	20.20	20.22	
3	64QAM	1	8	20.22	20.31	20.38	20
3	64QAM	1	14	20.20	20.44	20.21	
3	64QAM	8	0	19.05	19.06	19.11	
3	64QAM	8	4	19.19	19.11	19.16	18
3	64QAM	8	7	18.99	19.25	18.99	
3	64QAM	15	0	19.18	19.10	19.16	
3	256QAM	1	0	17.40	17.24	17.43	18
3	256QAM	1	8	17.37	17.57	17.50	
3	256QAM	1	14	17.44	17.40	17.57	
3	256QAM	8	0	17.29	17.29	17.45	18
3	256QAM	8	4	17.34	17.36	17.30	
3	256QAM	8	7	17.39	17.17	17.50	
3	256QAM	15	0	17.49	17.20	17.55	Tune-up limit (dBm)
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	21.99	21.93	22.04	23
1.4	QPSK	1	3	21.94	21.85	22.11	
1.4	QPSK	1	5	21.92	21.95	22.14	
1.4	QPSK	3	0	22.06	21.98	22.11	22
1.4	QPSK	3	1	21.92	21.96	22.06	
1.4	QPSK	3	3	22.08	21.88	22.18	
1.4	QPSK	6	0	21.07	21.01	21.25	21
1.4	16QAM	1	0	20.93	21.01	21.35	
1.4	16QAM	1	3	21.11	21.01	21.28	
1.4	16QAM	1	5	20.92	20.86	21.13	21
1.4	16QAM	3	0	21.28	20.91	21.14	
1.4	16QAM	3	1	20.89	20.88	21.28	
1.4	16QAM	3	3	21.09	21.09	21.20	20
1.4	16QAM	6	0	20.07	20.20	20.33	
1.4	64QAM	1	0	20.15	19.94	20.20	
1.4	64QAM	1	3	19.89	19.95	20.39	21
1.4	64QAM	1	5	20.02	20.10	20.20	
1.4	64QAM	3	0	20.22	19.92	20.03	
1.4	64QAM	3	1	20.07	20.00	20.29	20
1.4	64QAM	3	3	20.15	19.90	20.16	
1.4	64QAM	6	0	19.13	19.03	19.17	
1.4	256QAM	1	0	17.20	16.82	17.00	18
1.4	256QAM	1	3	17.00	17.13	17.19	
1.4	256QAM	1	5	17.23	16.93	17.03	
1.4	256QAM	3	0	16.90	16.90	17.09	18
1.4	256QAM	3	1	17.18	17.07	17.21	
1.4	256QAM	3	3	17.03	17.22	17.36	
1.4	256QAM	6	0	17.12	17.15	17.15	18



◀LTE Band 5 Main Ant. State 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				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	20.27	20.35	20.33	20.5
10	QPSK	1	25	20.24	20.13	20.32	
10	QPSK	1	49	20.21	20.31	20.19	
10	QPSK	25	0	19.28	19.26	19.37	19.5
10	QPSK	25	12	19.34	19.31	19.32	
10	QPSK	25	25	19.28	19.39	19.30	
10	QPSK	50	0	19.30	19.32	19.30	
10	16QAM	1	0	19.47	19.35	19.48	19.5
10	16QAM	1	25	19.40	19.50	19.46	
10	16QAM	1	49	19.39	19.42	19.39	
10	16QAM	25	0	18.31	18.25	18.39	18.5
10	16QAM	25	12	18.36	18.33	18.36	
10	16QAM	25	25	18.29	18.44	18.33	
10	16QAM	50	0	18.31	18.29	18.32	
10	64QAM	1	0	18.43	18.34	18.50	18.5
10	64QAM	1	25	18.44	18.46	18.41	
10	64QAM	1	49	18.35	18.43	18.43	
10	64QAM	25	0	17.32	17.24	17.39	17.5
10	64QAM	25	12	17.35	17.32	17.37	
10	64QAM	25	25	17.31	17.44	17.31	
10	64QAM	50	0	17.31	17.30	17.34	
10	256QAM	1	0	15.44	15.29	15.48	15.5
10	256QAM	1	25	15.45	15.45	15.42	
10	256QAM	1	49	15.28	15.47	15.35	
10	256QAM	25	0	15.34	15.29	15.43	15.5
10	256QAM	25	12	15.32	15.34	15.39	
10	256QAM	25	25	15.25	15.47	15.37	
10	256QAM	50	0	15.36	15.33	15.42	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	20.24	20.30	20.24	20.5
5	QPSK	1	12	20.15	20.06	20.31	
5	QPSK	1	24	20.18	20.22	20.17	
5	QPSK	12	0	19.20	19.18	19.35	19.5
5	QPSK	12	7	19.28	19.28	19.32	
5	QPSK	12	13	19.23	19.33	19.23	
5	QPSK	25	0	19.28	19.27	19.20	19.5
5	16QAM	1	0	19.45	19.30	19.43	
5	16QAM	1	12	19.32	19.42	19.39	
5	16QAM	1	24	19.32	19.38	19.39	
5	16QAM	12	0	18.28	18.23	18.36	18.5
5	16QAM	12	7	18.30	18.32	18.28	
5	16QAM	12	13	18.20	18.37	18.26	
5	16QAM	25	0	18.30	18.23	18.25	18.5
5	64QAM	1	0	18.34	18.27	18.44	
5	64QAM	1	12	18.44	18.43	18.38	
5	64QAM	1	24	18.31	18.37	18.43	
5	64QAM	12	0	17.32	17.19	17.32	17.5
5	64QAM	12	7	17.28	17.32	17.31	
5	64QAM	12	13	17.24	17.43	17.24	
5	64QAM	25	0	17.23	17.29	17.30	
5	256QAM	1	0	15.34	15.23	15.45	15.5
5	256QAM	1	12	15.40	15.39	15.36	
5	256QAM	1	24	15.27	15.38	15.27	
5	256QAM	12	0	15.33	15.21	15.38	15.5
5	256QAM	12	7	15.25	15.29	15.32	
5	256QAM	12	13	15.24	15.46	15.28	
5	256QAM	25	0	15.35	15.25	15.40	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	



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3	QPSK	1	0	20.20	20.29	20.25	20.5
3	QPSK	1	8	20.23	20.09	20.22	
3	QPSK	1	14	20.16	20.28	20.19	
3	QPSK	8	0	19.20	19.22	19.37	19.5
3	QPSK	8	4	19.34	19.23	19.23	
3	QPSK	8	7	19.26	19.31	19.28	
3	QPSK	15	0	19.29	19.23	19.21	19.5
3	16QAM	1	0	19.42	19.31	19.46	
3	16QAM	1	8	19.40	19.48	19.46	
3	16QAM	1	14	19.37	19.36	19.34	18.5
3	16QAM	8	0	18.28	18.24	18.35	
3	16QAM	8	4	18.34	18.25	18.34	
3	16QAM	8	7	18.28	18.40	18.33	18.5
3	16QAM	15	0	18.25	18.29	18.24	
3	64QAM	1	0	18.33	18.32	18.40	
3	64QAM	1	8	18.36	18.38	18.35	17.5
3	64QAM	1	14	18.35	18.38	18.38	
3	64QAM	8	0	17.29	17.20	17.34	
3	64QAM	8	4	17.30	17.23	17.34	15.5
3	64QAM	8	7	17.22	17.44	17.21	
3	64QAM	15	0	17.31	17.30	17.24	
3	256QAM	1	0	15.42	15.19	15.41	15.5
3	256QAM	1	8	15.35	15.39	15.37	
3	256QAM	1	14	15.22	15.41	15.26	
3	256QAM	8	0	15.29	15.28	15.38	15.5
3	256QAM	8	4	15.27	15.26	15.30	
3	256QAM	8	7	15.19	15.44	15.27	
3	256QAM	15	0	15.33	15.25	15.35	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	20.25	20.31	20.25	20.5
1.4	QPSK	1	3	20.17	20.08	20.23	
1.4	QPSK	1	5	20.21	20.28	20.16	
1.4	QPSK	3	0	20.21	20.26	20.28	
1.4	QPSK	3	1	20.14	20.04	20.29	
1.4	QPSK	3	3	20.19	20.30	20.10	19.5
1.4	QPSK	6	0	19.22	19.22	19.33	
1.4	16QAM	1	0	19.38	19.31	19.38	
1.4	16QAM	1	3	19.37	19.48	19.38	19.5
1.4	16QAM	1	5	19.29	19.40	19.36	
1.4	16QAM	3	0	19.38	19.31	19.47	
1.4	16QAM	3	1	19.30	19.44	19.44	
1.4	16QAM	3	3	19.35	19.39	19.29	
1.4	16QAM	6	0	18.30	18.29	18.24	18.5
1.4	64QAM	1	0	18.39	18.30	18.43	18.5
1.4	64QAM	1	3	18.36	18.38	18.31	
1.4	64QAM	1	5	18.29	18.37	18.38	
1.4	64QAM	3	0	18.38	18.26	18.45	
1.4	64QAM	3	1	18.35	18.43	18.39	
1.4	64QAM	3	3	18.31	18.35	18.36	17.5
1.4	64QAM	6	0	17.24	17.23	17.24	
1.4	256QAM	1	0	15.43	15.24	15.43	
1.4	256QAM	1	3	15.45	15.38	15.36	
1.4	256QAM	1	5	15.28	15.43	15.25	
1.4	256QAM	3	0	15.38	15.29	15.45	15.5
1.4	256QAM	3	1	15.36	15.40	15.38	
1.4	256QAM	3	3	15.24	15.42	15.29	
1.4	256QAM	6	0	15.32	15.29	15.37	15.5



◀LTE Band 7 Main Ant. State 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				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	16.08	16.06	15.98	
20	QPSK	1	49	16.06	16.01	16.01	17
20	QPSK	1	99	16.12	16.06	16.09	
20	QPSK	50	0	15.02	14.95	14.86	
20	QPSK	50	24	15.09	14.91	14.81	16
20	QPSK	50	50	15.14	14.97	14.90	
20	QPSK	100	0	15.09	14.87	14.83	
20	16QAM	1	0	15.08	15.06	14.76	16
20	16QAM	1	49	15.29	15.02	14.94	
20	16QAM	1	99	15.16	15.01	14.95	
20	16QAM	50	0	14.12	14.01	13.98	15
20	16QAM	50	24	14.18	14.02	13.91	
20	16QAM	50	50	14.15	13.99	14.00	
20	16QAM	100	0	14.15	13.97	13.87	15
20	64QAM	1	0	14.09	14.16	13.89	
20	64QAM	1	49	14.10	14.10	13.96	
20	64QAM	1	99	14.03	14.26	13.96	14
20	64QAM	50	0	13.15	13.00	12.94	
20	64QAM	50	24	13.20	12.92	12.94	
20	64QAM	50	50	13.15	12.98	12.97	12
20	64QAM	100	0	13.17	12.95	12.89	
20	256QAM	1	0	11.20	11.14	11.06	
20	256QAM	1	49	11.30	11.22	11.05	12
20	256QAM	1	99	11.38	11.14	11.28	
20	256QAM	50	0	11.16	11.00	10.98	
20	256QAM	50	24	11.28	11.01	11.08	12
20	256QAM	50	50	11.21	11.06	11.08	
20	256QAM	100	0	11.25	11.02	11.11	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.07	15.89	15.91	
15	QPSK	1	37	16.05	15.90	16.00	17
15	QPSK	1	74	15.98	15.99	16.05	
15	QPSK	36	0	14.93	14.94	14.77	
15	QPSK	36	20	14.95	14.82	14.66	16
15	QPSK	36	39	14.98	14.88	14.83	
15	QPSK	75	0	15.00	14.87	14.82	
15	16QAM	1	0	15.03	14.96	14.59	16
15	16QAM	1	37	15.25	14.89	14.76	
15	16QAM	1	74	15.16	15.01	14.76	
15	16QAM	36	0	14.02	13.95	13.87	15
15	16QAM	36	20	14.06	13.86	13.76	
15	16QAM	36	39	14.07	13.85	13.95	
15	16QAM	75	0	14.13	13.82	13.79	15
15	64QAM	1	0	13.95	13.96	13.70	
15	64QAM	1	37	14.04	14.04	13.88	
15	64QAM	1	74	13.94	14.14	13.77	14
15	64QAM	36	0	12.95	12.97	12.94	
15	64QAM	36	20	13.09	12.73	12.77	
15	64QAM	36	39	13.15	12.91	12.77	12
15	64QAM	75	0	13.07	12.87	12.87	
15	256QAM	1	0	11.06	10.96	10.91	
15	256QAM	1	37	11.21	11.20	10.86	12
15	256QAM	1	74	11.21	10.98	11.10	
15	256QAM	36	0	10.98	10.82	10.86	
15	256QAM	36	20	11.09	10.97	10.89	12
15	256QAM	36	39	11.20	10.90	11.02	
15	256QAM	75	0	11.19	10.90	10.95	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	



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10	QPSK	1	0	16.02	16.01	15.84	17
10	QPSK	1	25	16.00	15.96	15.97	
10	QPSK	1	49	15.99	15.95	16.06	
10	QPSK	25	0	14.83	14.91	14.85	16
10	QPSK	25	12	14.90	14.87	14.81	
10	QPSK	25	25	15.12	14.96	14.79	
10	QPSK	50	0	15.04	14.82	14.67	16
10	16QAM	1	0	14.96	15.01	14.56	
10	16QAM	1	25	15.25	15.00	14.90	
10	16QAM	1	49	15.10	14.81	14.88	15
10	16QAM	25	0	14.12	13.90	13.96	
10	16QAM	25	12	14.14	13.97	13.72	
10	16QAM	25	25	14.11	13.98	13.85	15
10	16QAM	50	0	13.97	13.92	13.73	
10	64QAM	1	0	14.01	14.13	13.70	
10	64QAM	1	25	14.02	13.95	13.84	15
10	64QAM	1	49	14.03	14.19	13.80	
10	64QAM	25	0	13.05	12.90	12.84	
10	64QAM	25	12	13.09	12.90	12.81	14
10	64QAM	25	25	13.06	12.88	12.87	
10	64QAM	50	0	13.11	12.86	12.77	
10	256QAM	1	0	11.02	11.06	10.96	12
10	256QAM	1	25	11.30	11.05	11.05	
10	256QAM	1	49	11.38	10.98	11.17	
10	256QAM	25	0	10.97	10.96	10.90	12
10	256QAM	25	12	11.14	10.88	10.88	
10	256QAM	25	25	11.15	10.91	10.89	
10	256QAM	50	0	11.06	10.85	11.10	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.00	15.87	15.88	17
5	QPSK	1	12	15.92	15.85	16.01	
5	QPSK	1	24	15.94	15.87	15.97	
5	QPSK	12	0	14.94	14.83	14.79	16
5	QPSK	12	7	15.00	14.84	14.71	
5	QPSK	12	13	14.99	14.93	14.78	
5	QPSK	25	0	14.90	14.86	14.64	16
5	16QAM	1	0	14.91	15.05	14.61	
5	16QAM	1	12	15.12	15.00	14.92	
5	16QAM	1	24	14.97	14.81	14.84	15
5	16QAM	12	0	14.04	13.98	13.88	
5	16QAM	12	7	14.18	13.86	13.74	
5	16QAM	12	13	14.01	13.98	13.98	15
5	16QAM	25	0	14.01	13.80	13.84	
5	64QAM	1	0	13.90	14.09	13.83	
5	64QAM	1	12	14.03	13.91	13.80	15
5	64QAM	1	24	13.94	14.08	13.82	
5	64QAM	12	0	13.12	12.97	12.85	
5	64QAM	12	7	13.17	12.81	12.81	14
5	64QAM	12	13	13.11	12.80	12.92	
5	64QAM	25	0	12.97	12.87	12.79	
5	256QAM	1	0	11.07	11.09	10.87	12
5	256QAM	1	12	11.21	11.07	10.91	
5	256QAM	1	24	11.32	11.01	11.23	
5	256QAM	12	0	11.14	10.86	10.90	12
5	256QAM	12	7	11.27	10.98	11.08	
5	256QAM	12	13	11.10	11.02	11.07	
5	256QAM	25	0	11.15	10.97	11.05	



<LTE Band 7 MIMO2 Ant State 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				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	18.00	18.07	18.15	
20	QPSK	1	49	17.84	17.92	17.94	19
20	QPSK	1	99	17.77	17.90	17.97	
20	QPSK	50	0	17.95	17.95	17.98	19
20	QPSK	50	24	17.76	17.95	17.92	
20	QPSK	50	50	17.67	17.87	17.88	
20	QPSK	100	0	17.92	17.94	17.97	
20	16QAM	1	0	17.89	17.86	17.99	
20	16QAM	1	49	17.79	17.85	17.87	19
20	16QAM	1	99	17.77	17.81	17.90	
20	16QAM	50	0	17.89	17.94	17.94	19
20	16QAM	50	24	17.68	17.91	17.88	
20	16QAM	50	50	17.63	17.83	17.82	
20	16QAM	100	0	17.92	17.95	17.87	
20	64QAM	1	0	17.80	17.84	17.93	
20	64QAM	1	49	17.69	17.83	17.78	19
20	64QAM	1	99	17.70	17.75	17.82	
20	64QAM	50	0	17.87	17.91	17.87	19
20	64QAM	50	24	17.58	17.89	17.79	
20	64QAM	50	50	17.56	17.78	17.74	
20	64QAM	100	0	17.92	17.89	17.84	
20	256QAM	1	0	17.35	17.55	17.37	
20	256QAM	1	49	17.33	17.45	17.35	18.5
20	256QAM	1	99	17.23	17.37	17.26	
20	256QAM	50	0	17.38	17.47	17.38	18.5
20	256QAM	50	24	17.30	17.45	17.33	
20	256QAM	50	50	17.24	17.36	17.31	
20	256QAM	100	0	17.17	17.30	17.23	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.90	17.95	18.03	
15	QPSK	1	37	17.80	17.86	17.93	
15	QPSK	1	74	17.70	17.89	17.90	
15	QPSK	36	0	17.91	17.88	17.90	19
15	QPSK	36	20	17.69	17.86	17.87	
15	QPSK	36	39	17.66	17.84	17.82	
15	QPSK	75	0	17.89	17.87	17.90	
15	16QAM	1	0	17.87	17.85	17.93	
15	16QAM	1	37	17.70	17.85	17.86	19
15	16QAM	1	74	17.73	17.79	17.83	
15	16QAM	36	0	17.89	17.87	17.86	19
15	16QAM	36	20	17.63	17.89	17.78	
15	16QAM	36	39	17.55	17.78	17.81	
15	16QAM	75	0	17.91	17.86	17.83	
15	64QAM	1	0	17.78	17.75	17.83	
15	64QAM	1	37	17.65	17.75	17.75	19
15	64QAM	1	74	17.63	17.69	17.77	
15	64QAM	36	0	17.77	17.87	17.86	19
15	64QAM	36	20	17.56	17.87	17.73	
15	64QAM	36	39	17.46	17.74	17.74	
15	64QAM	75	0	17.85	17.82	17.74	
15	256QAM	1	0	17.14	17.33	17.21	
15	256QAM	1	37	17.15	17.33	17.14	18.5
15	256QAM	1	74	17.09	17.18	17.08	
15	256QAM	36	0	17.05	17.05	17.03	18.5
15	256QAM	36	20	16.89	17.13	16.94	
15	256QAM	36	39	16.84	17.01	16.89	
15	256QAM	75	0	16.79	16.96	16.82	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	



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10	QPSK	1	0	17.83	17.85	17.98	19
10	QPSK	1	25	17.79	17.86	17.92	
10	QPSK	1	49	17.64	17.88	17.87	
10	QPSK	25	0	17.87	17.79	17.84	19
10	QPSK	25	12	17.65	17.78	17.86	
10	QPSK	25	25	17.63	17.75	17.73	
10	QPSK	50	0	17.85	17.78	17.87	19
10	16QAM	1	0	17.80	17.84	17.85	
10	16QAM	1	25	17.68	17.81	17.86	
10	16QAM	1	49	17.71	17.70	17.79	19
10	16QAM	25	0	17.89	17.79	17.77	
10	16QAM	25	12	17.61	17.82	17.73	
10	16QAM	25	25	17.49	17.74	17.74	19
10	16QAM	50	0	17.87	17.79	17.77	
10	64QAM	1	0	17.78	17.72	17.81	
10	64QAM	1	25	17.57	17.65	17.74	19
10	64QAM	1	49	17.53	17.64	17.67	
10	64QAM	25	0	17.75	17.84	17.82	
10	64QAM	25	12	17.49	17.79	17.63	19
10	64QAM	25	25	17.36	17.65	17.65	
10	64QAM	50	0	17.81	17.78	17.64	
10	256QAM	1	0	17.12	17.30	17.15	18.5
10	256QAM	1	25	17.11	17.25	17.07	
10	256QAM	1	49	16.99	17.17	16.99	
10	256QAM	25	0	17.01	17.00	17.03	18.5
10	256QAM	25	12	16.80	17.09	16.84	
10	256QAM	25	25	16.74	17.01	16.85	
10	256QAM	50	0	16.73	16.89	16.80	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	17.79	17.82	17.89	19
5	QPSK	1	12	17.72	17.86	17.86	
5	QPSK	1	24	17.63	17.82	17.83	
5	QPSK	12	0	17.85	17.79	17.75	19
5	QPSK	12	7	17.55	17.73	17.85	
5	QPSK	12	13	17.55	17.71	17.67	
5	QPSK	25	0	17.84	17.69	17.84	19
5	16QAM	1	0	17.80	17.82	17.82	
5	16QAM	1	12	17.60	17.79	17.84	
5	16QAM	1	24	17.65	17.68	17.72	19
5	16QAM	12	0	17.89	17.72	17.76	
5	16QAM	12	7	17.52	17.78	17.65	
5	16QAM	12	13	17.39	17.66	17.68	19
5	16QAM	25	0	17.87	17.77	17.73	
5	64QAM	1	0	17.74	17.67	17.81	
5	64QAM	1	12	17.48	17.60	17.70	19
5	64QAM	1	24	17.44	17.60	17.64	
5	64QAM	12	0	17.67	17.77	17.78	
5	64QAM	12	7	17.42	17.78	17.58	19
5	64QAM	12	13	17.27	17.61	17.63	
5	64QAM	25	0	17.79	17.74	17.64	
5	256QAM	1	0	17.06	17.27	17.11	18.5
5	256QAM	1	12	17.06	17.23	17.05	
5	256QAM	1	24	16.93	17.08	16.93	
5	256QAM	12	0	16.95	16.92	16.98	18.5
5	256QAM	12	7	16.80	17.03	16.82	
5	256QAM	12	13	16.64	16.98	16.78	
5	256QAM	25	0	16.63	16.89	16.73	



◀LTE Band 7 Main Ant. State 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				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	16.64	16.76	16.82	18.5
20	QPSK	1	49	16.82	16.89	16.95	
20	QPSK	1	99	16.84	16.97	17.02	
20	QPSK	50	0	15.79	15.90	15.99	17.5
20	QPSK	50	24	15.91	15.96	16.02	
20	QPSK	50	50	15.92	16.02	16.09	
20	QPSK	100	0	15.88	15.93	15.99	17.5
20	16QAM	1	0	15.93	16.07	16.15	
20	16QAM	1	49	16.03	16.24	16.35	
20	16QAM	1	99	16.09	16.31	16.30	16.5
20	16QAM	50	0	14.82	14.92	15.01	
20	16QAM	50	24	14.93	14.98	15.05	
20	16QAM	50	50	14.96	15.05	15.11	16.5
20	16QAM	100	0	14.91	14.95	14.98	
20	64QAM	1	0	15.76	14.97	15.07	
20	64QAM	1	49	15.94	15.13	15.22	16.5
20	64QAM	1	99	16.01	15.17	15.22	
20	64QAM	50	0	14.81	13.93	13.98	
20	64QAM	50	24	14.92	13.98	14.05	15.5
20	64QAM	50	50	14.95	14.05	14.09	
20	64QAM	100	0	14.89	13.92	14.00	
20	256QAM	1	0	12.12	12.04	12.01	13.5
20	256QAM	1	49	12.22	11.98	11.95	
20	256QAM	1	99	12.10	11.94	12.03	
20	256QAM	50	0	12.02	11.89	11.81	13.5
20	256QAM	50	24	12.11	11.87	11.85	
20	256QAM	50	50	12.08	11.95	11.89	
20	256QAM	100	0	12.10	11.85	11.83	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.54	16.76	16.74	18.5
15	QPSK	1	37	16.74	16.88	16.87	
15	QPSK	1	74	16.79	16.91	17.01	
15	QPSK	36	0	15.69	15.83	15.92	17.5
15	QPSK	36	20	15.84	15.93	15.97	
15	QPSK	36	39	15.88	15.95	16.09	
15	QPSK	75	0	15.80	15.92	15.92	17.5
15	16QAM	1	0	15.88	15.99	16.10	
15	16QAM	1	37	15.94	16.16	16.25	
15	16QAM	1	74	16.02	16.26	16.21	16.5
15	16QAM	36	0	14.73	14.89	14.99	
15	16QAM	36	20	14.92	14.90	15.02	
15	16QAM	36	39	14.86	14.97	15.11	16.5
15	16QAM	75	0	14.89	14.94	14.90	
15	64QAM	1	0	15.72	14.96	14.99	
15	64QAM	1	37	15.87	15.13	15.17	16.5
15	64QAM	1	74	15.98	15.08	15.15	
15	64QAM	36	0	14.72	13.88	13.95	
15	64QAM	36	20	14.86	13.97	13.95	15.5
15	64QAM	36	39	14.91	13.99	14.02	
15	64QAM	75	0	14.85	13.83	14.00	
15	256QAM	1	0	12.02	12.02	11.98	13.5
15	256QAM	1	37	12.12	11.93	11.94	
15	256QAM	1	74	12.10	11.84	12.00	
15	256QAM	36	0	11.97	11.79	11.81	13.5
15	256QAM	36	20	12.01	11.86	11.75	
15	256QAM	36	39	12.04	11.86	11.88	
15	256QAM	75	0	12.07	11.80	11.83	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	



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10	QPSK	1	0	16.54	16.74	16.76	18.5
10	QPSK	1	25	16.82	16.89	16.88	
10	QPSK	1	49	16.80	16.88	16.95	
10	QPSK	25	0	15.75	15.83	15.90	17.5
10	QPSK	25	12	15.90	15.89	15.97	
10	QPSK	25	25	15.82	15.96	16.03	
10	QPSK	50	0	15.78	15.91	15.89	17.5
10	16QAM	1	0	15.93	16.03	16.14	
10	16QAM	1	25	15.96	16.15	16.26	
10	16QAM	1	49	16.01	16.31	16.23	16.5
10	16QAM	25	0	14.82	14.86	14.96	
10	16QAM	25	12	14.88	14.95	14.99	
10	16QAM	25	25	14.87	15.03	15.04	16.5
10	16QAM	50	0	14.82	14.93	14.96	
10	64QAM	1	0	15.72	14.97	15.05	
10	64QAM	1	25	15.89	15.10	15.14	15.5
10	64QAM	1	49	16.00	15.16	15.17	
10	64QAM	25	0	14.76	13.91	13.94	
10	64QAM	25	12	14.90	13.97	14.00	13.5
10	64QAM	25	25	14.93	14.03	14.05	
10	64QAM	50	0	14.79	13.88	13.95	
10	256QAM	1	0	12.05	12.00	11.97	13.5
10	256QAM	1	25	12.20	11.98	11.94	
10	256QAM	1	49	12.01	11.94	12.00	
10	256QAM	25	0	11.96	11.89	11.80	13.5
10	256QAM	25	12	12.04	11.86	11.77	
10	256QAM	25	25	12.00	11.91	11.85	
10	256QAM	50	0	12.08	11.82	11.79	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.63	16.67	16.75	18.5
5	QPSK	1	12	16.76	16.88	16.85	
5	QPSK	1	24	16.75	16.89	16.94	
5	QPSK	12	0	15.73	15.88	15.91	17.5
5	QPSK	12	7	15.83	15.96	15.99	
5	QPSK	12	13	15.92	15.96	16.04	
5	QPSK	25	0	15.78	15.87	15.99	17.5
5	16QAM	1	0	15.86	16.00	16.12	
5	16QAM	1	12	15.95	16.24	16.33	
5	16QAM	1	24	16.00	16.29	16.22	16.5
5	16QAM	12	0	14.77	14.84	14.96	
5	16QAM	12	7	14.83	14.89	14.96	
5	16QAM	12	13	14.93	15.00	15.07	16.5
5	16QAM	25	0	14.87	14.88	14.93	
5	64QAM	1	0	15.75	14.93	15.04	
5	64QAM	1	12	15.89	15.11	15.16	15.5
5	64QAM	1	24	15.91	15.07	15.20	
5	64QAM	12	0	14.79	13.92	13.88	
5	64QAM	12	7	14.85	13.92	13.98	13.5
5	64QAM	12	13	14.91	14.04	14.05	
5	64QAM	25	0	14.79	13.88	13.95	
5	256QAM	1	0	12.09	11.95	11.98	13.5
5	256QAM	1	12	12.14	11.90	11.92	
5	256QAM	1	24	12.00	11.89	12.03	
5	256QAM	12	0	11.98	11.89	11.76	13.5
5	256QAM	12	7	12.05	11.84	11.75	
5	256QAM	12	13	11.99	11.85	11.84	
5	256QAM	25	0	12.04	11.83	11.74	



<div style="text-align: center;"><LTE Band 7 MIMO2 Ant State 3></div>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	14.72	14.76	14.87	15
20	QPSK	1	49	14.67	14.72	14.74	
20	QPSK	1	99	14.63	14.74	14.80	
20	QPSK	50	0	14.75	14.76	14.80	15
20	QPSK	50	24	14.60	14.74	14.65	
20	QPSK	50	50	14.61	14.70	14.72	
20	QPSK	100	0	14.73	14.78	14.80	15
20	16QAM	1	0	14.65	14.73	14.78	
20	16QAM	1	49	14.64	14.69	14.72	
20	16QAM	1	99	14.58	14.66	14.72	15
20	16QAM	50	0	14.72	14.75	14.76	
20	16QAM	50	24	14.58	14.68	14.65	
20	16QAM	50	50	14.58	14.62	14.69	15
20	16QAM	100	0	14.69	14.69	14.72	
20	64QAM	1	0	14.62	14.66	14.78	
20	64QAM	1	49	14.57	14.69	14.70	15
20	64QAM	1	99	14.49	14.66	14.65	
20	64QAM	50	0	14.68	14.73	14.72	
20	64QAM	50	24	14.53	14.64	14.56	15
20	64QAM	50	50	14.56	14.58	14.65	
20	64QAM	100	0	14.59	14.68	14.66	
20	256QAM	1	0	14.33	14.45	14.39	15
20	256QAM	1	49	14.23	14.45	14.34	
20	256QAM	1	99	14.22	14.39	14.30	
20	256QAM	50	0	14.18	14.29	14.27	15
20	256QAM	50	24	14.12	14.27	14.27	
20	256QAM	50	50	14.09	14.20	14.26	
20	256QAM	100	0	14.04	14.20	14.21	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	14.64	14.73	14.82	15
15	QPSK	1	37	14.59	14.64	14.69	
15	QPSK	1	74	14.59	14.70	14.76	
15	QPSK	36	0	14.68	14.73	14.73	15
15	QPSK	36	20	14.51	14.71	14.60	
15	QPSK	36	39	14.54	14.67	14.71	
15	QPSK	75	0	14.64	14.73	14.71	15
15	16QAM	1	0	14.65	14.65	14.69	
15	16QAM	1	37	14.64	14.69	14.72	
15	16QAM	1	74	14.50	14.62	14.66	15
15	16QAM	36	0	14.63	14.67	14.68	
15	16QAM	36	20	14.58	14.65	14.62	
15	16QAM	36	39	14.51	14.61	14.64	15
15	16QAM	75	0	14.59	14.66	14.65	
15	64QAM	1	0	14.60	14.62	14.76	
15	64QAM	1	37	14.54	14.60	14.69	15
15	64QAM	1	74	14.46	14.62	14.55	
15	64QAM	36	0	14.66	14.65	14.71	
15	64QAM	36	20	14.50	14.54	14.53	15
15	64QAM	36	39	14.55	14.50	14.64	
15	64QAM	75	0	14.57	14.61	14.62	
15	256QAM	1	0	14.23	14.43	14.33	15
15	256QAM	1	37	14.15	14.39	14.32	
15	256QAM	1	74	14.15	14.38	14.23	
15	256QAM	36	0	14.10	14.22	14.22	15
15	256QAM	36	20	14.11	14.23	14.24	
15	256QAM	36	39	14.06	14.19	14.22	
15	256QAM	75	0	13.99	14.14	14.14	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	



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10	QPSK	1	0	14.57	14.63	14.81	15
10	QPSK	1	25	14.59	14.64	14.62	
10	QPSK	1	49	14.52	14.68	14.68	
10	QPSK	25	0	14.64	14.63	14.73	15
10	QPSK	25	12	14.41	14.70	14.51	
10	QPSK	25	25	14.48	14.63	14.61	
10	QPSK	50	0	14.56	14.69	14.63	15
10	16QAM	1	0	14.64	14.63	14.67	
10	16QAM	1	25	14.62	14.67	14.68	
10	16QAM	1	49	14.48	14.54	14.63	15
10	16QAM	25	0	14.55	14.58	14.62	
10	16QAM	25	12	14.57	14.59	14.53	
10	16QAM	25	25	14.48	14.53	14.55	15
10	16QAM	50	0	14.49	14.61	14.56	
10	64QAM	1	0	14.59	14.62	14.73	
10	64QAM	1	25	14.46	14.55	14.59	15
10	64QAM	1	49	14.36	14.62	14.49	
10	64QAM	25	0	14.60	14.58	14.69	
10	64QAM	25	12	14.40	14.53	14.53	15
10	64QAM	25	25	14.52	14.46	14.57	
10	64QAM	50	0	14.55	14.55	14.58	
10	256QAM	1	0	14.15	14.38	14.31	15
10	256QAM	1	25	14.12	14.37	14.32	
10	256QAM	1	49	14.13	14.31	14.17	
10	256QAM	25	0	14.07	14.20	14.12	15
10	256QAM	25	12	14.10	14.18	14.18	
10	256QAM	25	25	14.06	14.10	14.21	
10	256QAM	50	0	13.91	14.11	14.07	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	14.56	14.55	14.75	15
5	QPSK	1	12	14.50	14.56	14.54	
5	QPSK	1	24	14.51	14.67	14.67	
5	QPSK	12	0	14.60	14.63	14.69	15
5	QPSK	12	7	14.32	14.64	14.41	
5	QPSK	12	13	14.43	14.54	14.61	
5	QPSK	25	0	14.51	14.64	14.61	15
5	16QAM	1	0	14.56	14.55	14.60	
5	16QAM	1	12	14.59	14.67	14.58	
5	16QAM	1	24	14.46	14.48	14.57	15
5	16QAM	12	0	14.52	14.50	14.53	
5	16QAM	12	7	14.53	14.49	14.52	
5	16QAM	12	13	14.40	14.51	14.50	15
5	16QAM	25	0	14.44	14.51	14.53	
5	64QAM	1	0	14.51	14.53	14.65	
5	64QAM	1	12	14.41	14.53	14.51	15
5	64QAM	1	24	14.36	14.57	14.46	
5	64QAM	12	0	14.60	14.57	14.67	
5	64QAM	12	7	14.35	14.47	14.45	15
5	64QAM	12	13	14.42	14.42	14.51	
5	64QAM	25	0	14.52	14.54	14.50	
5	256QAM	1	0	14.09	14.31	14.21	15
5	256QAM	1	12	14.07	14.35	14.29	
5	256QAM	1	24	14.08	14.28	14.12	
5	256QAM	12	0	13.98	14.10	14.10	15
5	256QAM	12	7	14.00	14.12	14.17	
5	256QAM	12	13	13.98	14.10	14.19	
5	256QAM	25	0	13.88	14.02	14.02	



<LTE Band 12 Main Ant State 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				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.24	22.20	22.22	23.5
10	QPSK	1	25	22.23	22.30	22.25	
10	QPSK	1	49	22.24	22.23	22.18	
10	QPSK	25	0	21.24	21.22	21.21	22.5
10	QPSK	25	12	21.32	21.33	21.25	
10	QPSK	25	25	21.31	21.32	21.27	
10	QPSK	50	0	21.22	21.32	21.27	
10	16QAM	1	0	21.49	21.42	21.46	22.5
10	16QAM	1	25	21.43	21.43	21.38	
10	16QAM	1	49	21.46	21.40	21.43	
10	16QAM	25	0	20.23	20.24	20.24	21.5
10	16QAM	25	12	20.36	20.28	20.31	
10	16QAM	25	25	20.32	20.31	20.30	
10	16QAM	50	0	20.31	20.23	20.29	
10	64QAM	1	0	20.47	20.47	20.50	21.5
10	64QAM	1	25	20.45	20.44	20.49	
10	64QAM	1	49	20.47	20.46	20.45	
10	64QAM	25	0	19.24	19.23	19.21	20.5
10	64QAM	25	12	19.31	19.27	19.31	
10	64QAM	25	25	19.32	19.31	19.29	
10	64QAM	50	0	19.31	19.23	19.29	
10	256QAM	1	0	17.51	17.45	17.38	18.5
10	256QAM	1	25	17.64	17.61	17.55	
10	256QAM	1	49	17.51	17.57	17.49	
10	256QAM	25	0	17.49	17.43	17.49	18.5
10	256QAM	25	12	17.58	17.47	17.50	
10	256QAM	25	25	17.53	17.51	17.42	
10	256QAM	50	0	17.56	17.50	17.48	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.22	22.13	22.19	23.5
5	QPSK	1	12	22.08	22.28	22.25	
5	QPSK	1	24	22.22	22.17	22.18	
5	QPSK	12	0	21.22	21.22	21.06	22.5
5	QPSK	12	7	21.23	21.16	21.05	
5	QPSK	12	13	21.12	21.25	21.15	
5	QPSK	25	0	21.12	21.24	21.11	
5	16QAM	1	0	21.39	21.31	21.46	22.5
5	16QAM	1	12	21.28	21.23	21.30	
5	16QAM	1	24	21.39	21.22	21.33	
5	16QAM	12	0	20.11	20.17	20.21	21.5
5	16QAM	12	7	20.29	20.17	20.31	
5	16QAM	12	13	20.27	20.17	20.29	
5	16QAM	25	0	20.13	20.21	20.11	
5	64QAM	1	0	20.41	20.30	20.48	21.5
5	64QAM	1	12	20.40	20.25	20.30	
5	64QAM	1	24	20.30	20.34	20.37	
5	64QAM	12	0	19.09	19.12	19.04	20.5
5	64QAM	12	7	19.31	19.24	19.22	
5	64QAM	12	13	19.20	19.16	19.24	
5	64QAM	25	0	19.30	19.07	19.13	
5	256QAM	1	0	17.35	17.31	17.38	18.5
5	256QAM	1	12	17.46	17.54	17.49	
5	256QAM	1	24	17.38	17.46	17.30	
5	256QAM	12	0	17.43	17.33	17.44	18.5
5	256QAM	12	7	17.58	17.47	17.43	
5	256QAM	12	13	17.34	17.32	17.30	
5	256QAM	25	0	17.38	17.42	17.28	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	



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3	QPSK	1	0	22.18	22.14	22.14	23.5
3	QPSK	1	8	22.23	22.13	22.12	
3	QPSK	1	14	22.10	22.08	22.04	
3	QPSK	8	0	21.19	21.07	21.04	22.5
3	QPSK	8	4	21.25	21.14	21.05	
3	QPSK	8	7	21.29	21.24	21.27	
3	QPSK	15	0	21.05	21.19	21.16	22.5
3	16QAM	1	0	21.44	21.22	21.43	
3	16QAM	1	8	21.26	21.40	21.34	
3	16QAM	1	14	21.27	21.39	21.25	21.5
3	16QAM	8	0	20.05	20.18	20.16	
3	16QAM	8	4	20.25	20.16	20.12	
3	16QAM	8	7	20.29	20.18	20.17	21.5
3	16QAM	15	0	20.20	20.12	20.21	
3	64QAM	1	0	20.45	20.45	20.47	
3	64QAM	1	8	20.30	20.29	20.38	20.5
3	64QAM	1	14	20.38	20.35	20.39	
3	64QAM	8	0	19.15	19.22	19.12	
3	64QAM	8	4	19.13	19.10	19.28	18.5
3	64QAM	8	7	19.24	19.13	19.21	
3	64QAM	15	0	19.31	19.12	19.18	
3	256QAM	1	0	17.36	17.25	17.30	18.5
3	256QAM	1	8	17.48	17.44	17.41	
3	256QAM	1	14	17.50	17.53	17.40	
3	256QAM	8	0	17.31	17.36	17.45	18.5
3	256QAM	8	4	17.54	17.43	17.30	
3	256QAM	8	7	17.41	17.40	17.33	
3	256QAM	15	0	17.44	17.31	17.47	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.12	22.20	22.04	23.5
1.4	QPSK	1	3	22.09	22.04	22.19	
1.4	QPSK	1	5	22.16	22.10	22.08	
1.4	QPSK	3	0	22.23	22.17	22.13	
1.4	QPSK	3	1	22.11	22.03	22.06	
1.4	QPSK	3	3	22.11	22.16	22.04	22.5
1.4	QPSK	6	0	21.28	21.39	21.41	
1.4	16QAM	1	0	21.35	21.00	21.31	
1.4	16QAM	1	3	21.37	21.35	21.07	21.5
1.4	16QAM	1	5	21.31	21.37	21.11	
1.4	16QAM	3	0	21.07	21.34	21.29	
1.4	16QAM	3	1	21.24	21.07	21.08	
1.4	16QAM	3	3	21.42	21.24	21.40	
1.4	16QAM	6	0	20.07	20.23	20.16	21.5
1.4	64QAM	1	0	20.11	20.06	20.04	20.5
1.4	64QAM	1	3	20.28	20.13	20.24	
1.4	64QAM	1	5	20.30	20.22	20.41	
1.4	64QAM	3	0	20.34	20.15	20.09	
1.4	64QAM	3	1	20.43	20.23	20.10	
1.4	64QAM	3	3	20.15	20.36	20.13	18.5
1.4	64QAM	6	0	19.19	19.20	19.35	
1.4	256QAM	1	0	17.25	17.18	17.06	
1.4	256QAM	1	3	17.21	17.29	17.22	
1.4	256QAM	1	5	17.17	17.36	17.04	
1.4	256QAM	3	0	17.16	17.39	17.38	18.5
1.4	256QAM	3	1	17.29	17.04	17.10	
1.4	256QAM	3	3	17.07	17.19	17.29	
1.4	256QAM	6	0	17.21	17.37	17.27	18.5



◀LTE Band 12 Main Ant State 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				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.67	23.69	23.65	25
10	QPSK	1	25	23.66	23.64	23.60	
10	QPSK	1	49	23.64	23.63	23.55	
10	QPSK	25	0	22.75	22.77	22.71	24
10	QPSK	25	12	22.71	22.72	22.70	
10	QPSK	25	25	22.66	22.70	22.64	
10	QPSK	50	0	22.69	22.73	22.66	24
10	16QAM	1	0	22.95	22.96	22.97	
10	16QAM	1	25	22.94	22.97	22.98	
10	16QAM	1	49	22.98	22.95	22.96	23
10	16QAM	25	0	21.80	21.75	21.73	
10	16QAM	25	12	21.75	21.69	21.69	
10	16QAM	25	25	21.64	21.68	21.63	23
10	16QAM	50	0	21.68	21.76	21.71	
10	64QAM	1	0	21.94	21.97	21.88	
10	64QAM	1	25	21.93	21.94	21.86	22
10	64QAM	1	49	21.91	21.91	21.79	
10	64QAM	25	0	20.66	20.68	20.64	
10	64QAM	25	12	20.79	20.73	20.75	20
10	64QAM	25	25	20.75	20.68	20.70	
10	64QAM	50	0	20.73	20.67	20.71	
10	256QAM	1	0	18.80	18.83	18.85	20
10	256QAM	1	25	19.00	18.89	18.94	
10	256QAM	1	49	18.97	18.87	18.86	
10	256QAM	25	0	18.87	18.85	18.86	20
10	256QAM	25	12	18.95	18.91	18.93	
10	256QAM	25	25	18.96	18.83	18.88	
10	256QAM	50	0	18.96	18.89	18.91	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.65	23.60	23.64	25
5	QPSK	1	12	23.62	23.58	23.54	
5	QPSK	1	24	23.60	23.56	23.45	
5	QPSK	12	0	22.72	22.71	22.71	24
5	QPSK	12	7	22.64	22.67	22.63	
5	QPSK	12	13	22.60	22.68	22.58	
5	QPSK	25	0	22.63	22.71	22.56	24
5	16QAM	1	0	22.90	22.89	22.89	
5	16QAM	1	12	22.90	22.89	22.89	
5	16QAM	1	24	22.93	22.93	22.95	23
5	16QAM	12	0	21.72	21.75	21.71	
5	16QAM	12	7	21.67	21.65	21.67	
5	16QAM	12	13	21.57	21.68	21.63	23
5	16QAM	25	0	21.58	21.72	21.65	
5	64QAM	1	0	21.93	21.87	21.78	
5	64QAM	1	12	21.90	21.89	21.79	22
5	64QAM	1	24	21.83	21.86	21.72	
5	64QAM	12	0	20.59	20.59	20.54	
5	64QAM	12	7	20.69	20.70	20.66	20
5	64QAM	12	13	20.69	20.64	20.69	
5	64QAM	25	0	20.71	20.60	20.69	
5	256QAM	1	0	18.71	18.73	18.81	20
5	256QAM	1	12	18.90	18.79	18.94	
5	256QAM	1	24	18.92	18.78	18.79	
5	256QAM	12	0	18.84	18.85	18.77	20
5	256QAM	12	7	18.89	18.90	18.93	
5	256QAM	12	13	18.90	18.74	18.88	
5	256QAM	25	0	18.96	18.79	18.82	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	



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3	QPSK	1	0	23.66	23.65	23.63	25
3	QPSK	1	8	23.56	23.56	23.53	
3	QPSK	1	14	23.54	23.58	23.53	
3	QPSK	8	0	22.70	22.70	22.70	24
3	QPSK	8	4	22.71	22.71	22.68	
3	QPSK	8	7	22.64	22.67	22.58	
3	QPSK	15	0	22.62	22.63	22.58	24
3	16QAM	1	0	22.90	22.91	22.91	
3	16QAM	1	8	22.85	22.96	22.91	
3	16QAM	1	14	22.90	22.85	22.93	23
3	16QAM	8	0	21.70	21.66	21.70	
3	16QAM	8	4	21.65	21.59	21.65	
3	16QAM	8	7	21.60	21.58	21.59	23
3	16QAM	15	0	21.60	21.66	21.69	
3	64QAM	1	0	21.90	21.88	21.82	
3	64QAM	1	8	21.83	21.84	21.83	22
3	64QAM	1	14	21.81	21.91	21.79	
3	64QAM	8	0	20.66	20.67	20.58	
3	64QAM	8	4	20.72	20.65	20.70	20
3	64QAM	8	7	20.73	20.65	20.64	
3	64QAM	15	0	20.73	20.63	20.67	
3	256QAM	1	0	18.70	18.82	18.82	20
3	256QAM	1	8	18.98	18.79	18.89	
3	256QAM	1	14	18.88	18.79	18.86	
3	256QAM	8	0	18.84	18.79	18.80	20
3	256QAM	8	4	18.90	18.87	18.85	
3	256QAM	8	7	18.89	18.73	18.79	
3	256QAM	15	0	18.89	18.83	18.82	Tune-up limit (dBm)
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.65	23.63	23.56	25
1.4	QPSK	1	3	23.65	23.54	23.58	
1.4	QPSK	1	5	23.57	23.56	23.52	
1.4	QPSK	3	0	22.74	22.72	22.65	24
1.4	QPSK	3	1	22.66	22.70	22.68	
1.4	QPSK	3	3	22.61	22.68	22.63	
1.4	QPSK	6	0	22.60	22.73	22.62	24
1.4	16QAM	1	0	22.94	22.93	22.90	
1.4	16QAM	1	3	22.89	22.87	22.98	
1.4	16QAM	1	5	22.93	22.90	22.96	23
1.4	16QAM	3	0	21.74	21.71	21.63	
1.4	16QAM	3	1	21.74	21.63	21.69	
1.4	16QAM	3	3	21.57	21.61	21.55	23
1.4	16QAM	6	0	21.65	21.72	21.69	
1.4	64QAM	1	0	21.92	21.94	21.83	
1.4	64QAM	1	3	21.93	21.91	21.76	22
1.4	64QAM	1	5	21.91	21.87	21.70	
1.4	64QAM	3	0	20.57	20.61	20.56	
1.4	64QAM	3	1	20.77	20.68	20.69	22
1.4	64QAM	3	3	20.67	20.60	20.66	
1.4	64QAM	6	0	20.71	20.57	20.62	
1.4	256QAM	1	0	18.76	18.78	18.84	20
1.4	256QAM	1	3	18.94	18.87	18.84	
1.4	256QAM	1	5	18.91	18.83	18.77	
1.4	256QAM	3	0	18.86	18.79	18.85	20
1.4	256QAM	3	1	18.94	18.83	18.85	
1.4	256QAM	3	3	18.91	18.82	18.82	
1.4	256QAM	6	0	18.86	18.86	18.85	20



<LTE Band 13 Main Ant State 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			23
Frequency (MHz)				782			
10	QPSK	1	0		21.72		23
10	QPSK	1	25		21.81		
10	QPSK	1	49		21.72		
10	QPSK	25	0		20.86		22
10	QPSK	25	12		20.82		
10	QPSK	25	25		20.79		
10	QPSK	50	0		20.85		22
10	16QAM	1	0		20.91		
10	16QAM	1	25		20.90		
10	16QAM	1	49		20.96		21
10	16QAM	25	0		19.67		
10	16QAM	25	12		19.63		
10	16QAM	25	25		19.61		21
10	16QAM	50	0		19.69		
10	64QAM	1	0		19.73		
10	64QAM	1	25		19.82		21
10	64QAM	1	49		19.92		
10	64QAM	25	0		18.65		
10	64QAM	25	12		18.64		20
10	64QAM	25	25		18.60		
10	64QAM	50	0		18.68		
10	256QAM	1	0		16.97		18
10	256QAM	1	25		16.95		
10	256QAM	1	49		16.96		
10	256QAM	25	0		16.92		18
10	256QAM	25	12		16.94		
10	256QAM	25	25		16.91		
10	256QAM	50	0		16.90		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	21.66	21.64	21.72	23
5	QPSK	1	12	21.78	21.73	21.73	
5	QPSK	1	24	21.64	21.70	21.68	
5	QPSK	12	0	20.83	20.86	20.76	22
5	QPSK	12	7	20.72	20.72	20.79	
5	QPSK	12	13	20.69	20.73	20.76	
5	QPSK	25	0	20.81	20.76	20.77	22
5	16QAM	1	0	20.87	20.91	20.90	
5	16QAM	1	12	20.88	20.89	20.89	
5	16QAM	1	24	20.90	20.90	20.92	21
5	16QAM	12	0	19.65	19.60	19.60	
5	16QAM	12	7	19.60	19.62	19.60	
5	16QAM	12	13	19.56	19.52	19.59	21
5	16QAM	25	0	19.61	19.64	19.63	
5	64QAM	1	0	19.66	19.71	19.73	
5	64QAM	1	12	19.79	19.74	19.81	21
5	64QAM	1	24	19.84	19.88	19.91	
5	64QAM	12	0	18.65	18.64	18.57	
5	64QAM	12	7	18.55	18.54	18.60	20
5	64QAM	12	13	18.51	18.50	18.56	
5	64QAM	25	0	18.62	18.58	18.68	
5	256QAM	1	0	16.89	16.95	16.95	18
5	256QAM	1	12	16.93	16.95	16.85	
5	256QAM	1	24	16.89	16.88	16.90	
5	256QAM	12	0	16.88	16.89	16.83	18
5	256QAM	12	7	16.89	16.92	16.93	
5	256QAM	12	13	16.89	16.87	16.90	
5	256QAM	25	0	16.88	16.89	16.90	



◀LTE Band 13 Main Ant State 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			22
Frequency (MHz)				782			
10	QPSK	1	0		21.72		22
10	QPSK	1	25		21.81		
10	QPSK	1	49		21.72		
10	QPSK	25	0		20.86		21
10	QPSK	25	12		20.82		
10	QPSK	25	25		20.79		
10	QPSK	50	0		20.85		21
10	16QAM	1	0		20.91		
10	16QAM	1	25		20.90		
10	16QAM	1	49		20.96		20
10	16QAM	25	0		19.67		
10	16QAM	25	12		19.63		
10	16QAM	25	25		19.61		20
10	16QAM	50	0		19.69		
10	64QAM	1	0		19.73		
10	64QAM	1	25		19.82		20
10	64QAM	1	49		19.92		
10	64QAM	25	0		18.65		
10	64QAM	25	12		18.64		19
10	64QAM	25	25		18.60		
10	64QAM	50	0		18.68		
10	256QAM	1	0		16.97		17
10	256QAM	1	25		16.95		
10	256QAM	1	49		16.96		
10	256QAM	25	0		16.92		17
10	256QAM	25	12		16.94		
10	256QAM	25	25		16.91		
10	256QAM	50	0		16.90		
Channel				23205	23230	23255	22
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	21.66	21.64	21.72	22
5	QPSK	1	12	21.78	21.73	21.73	
5	QPSK	1	24	21.64	21.70	21.68	
5	QPSK	12	0	20.83	20.86	20.76	21
5	QPSK	12	7	20.72	20.72	20.79	
5	QPSK	12	13	20.69	20.73	20.76	
5	QPSK	25	0	20.81	20.76	20.77	21
5	16QAM	1	0	20.87	20.91	20.90	
5	16QAM	1	12	20.88	20.89	20.89	
5	16QAM	1	24	20.90	20.90	20.92	20
5	16QAM	12	0	19.65	19.60	19.60	
5	16QAM	12	7	19.60	19.62	19.60	
5	16QAM	12	13	19.56	19.52	19.59	20
5	16QAM	25	0	19.61	19.64	19.63	
5	64QAM	1	0	19.66	19.71	19.73	
5	64QAM	1	12	19.79	19.74	19.81	20
5	64QAM	1	24	19.84	19.88	19.91	
5	64QAM	12	0	18.65	18.64	18.57	
5	64QAM	12	7	18.55	18.54	18.60	19
5	64QAM	12	13	18.51	18.50	18.56	
5	64QAM	25	0	18.62	18.58	18.68	
5	256QAM	1	0	16.89	16.95	16.95	17
5	256QAM	1	12	16.93	16.95	16.85	
5	256QAM	1	24	16.89	16.88	16.90	
5	256QAM	12	0	16.88	16.89	16.83	17
5	256QAM	12	7	16.89	16.92	16.93	
5	256QAM	12	13	16.89	16.87	16.90	
5	256QAM	25	0	16.88	16.89	16.90	



LTE Band 14 Main Ant State 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			23
Frequency (MHz)				793			
10	QPSK	1	0		21.96		23
10	QPSK	1	25		21.92		
10	QPSK	1	49		21.76		
10	QPSK	25	0		20.93		22
10	QPSK	25	12		20.90		
10	QPSK	25	25		20.87		
10	QPSK	50	0		20.86		22
10	16QAM	1	0		20.99		
10	16QAM	1	25		20.91		
10	16QAM	1	49		20.76		21
10	16QAM	25	0		19.55		
10	16QAM	25	12		19.52		
10	16QAM	25	25		19.45		21
10	16QAM	50	0		19.46		
10	64QAM	1	0		19.79		
10	64QAM	1	25		19.71		21
10	64QAM	1	49		19.58		
10	64QAM	25	0		18.56		
10	64QAM	25	12		18.51		20
10	64QAM	25	25		18.45		
10	64QAM	50	0		18.47		
10	256QAM	1	0		17.14		18
10	256QAM	1	25		17.21		
10	256QAM	1	49		17.07		
10	256QAM	25	0		17.15		18
10	256QAM	25	12		17.07		
10	256QAM	25	25		17.01		
10	256QAM	50	0		17.03		
Channel				23305	23330	23355	23
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	21.93	21.88	21.91	23
5	QPSK	1	12	21.84	21.89	21.90	
5	QPSK	1	24	21.70	21.70	21.70	
5	QPSK	12	0	20.85	20.86	20.88	22
5	QPSK	12	7	20.89	20.89	20.90	
5	QPSK	12	13	20.84	20.83	20.85	
5	QPSK	25	0	20.77	20.76	20.85	22
5	16QAM	1	0	20.91	20.93	20.96	
5	16QAM	1	12	20.88	20.90	20.89	
5	16QAM	1	24	20.73	20.66	20.67	21
5	16QAM	12	0	19.51	19.46	19.47	
5	16QAM	12	7	19.46	19.50	19.48	
5	16QAM	12	13	19.42	19.37	19.43	21
5	16QAM	25	0	19.46	19.39	19.43	
5	64QAM	1	0	19.75	19.76	19.74	
5	64QAM	1	12	19.70	19.69	19.66	21
5	64QAM	1	24	19.58	19.50	19.58	
5	64QAM	12	0	18.53	18.50	18.54	
5	64QAM	12	7	18.48	18.49	18.47	20
5	64QAM	12	13	18.35	18.35	18.44	
5	64QAM	25	0	18.46	18.39	18.47	
5	256QAM	1	0	17.06	17.13	17.04	18
5	256QAM	1	12	17.13	17.18	17.13	
5	256QAM	1	24	17.02	17.04	17.00	
5	256QAM	12	0	17.11	17.14	17.11	18
5	256QAM	12	7	16.98	17.00	17.03	
5	256QAM	12	13	17.01	16.98	16.93	
5	256QAM	25	0	16.97	16.95	16.98	



<LTE Band 14 Main Ant State 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		21.96		22
10	QPSK	1	25		21.92		
10	QPSK	1	49		21.76		
10	QPSK	25	0		20.93		21
10	QPSK	25	12		20.90		
10	QPSK	25	25		20.87		
10	QPSK	50	0		20.86		21
10	16QAM	1	0		20.99		
10	16QAM	1	25		20.91		
10	16QAM	1	49		20.76		20
10	16QAM	25	0		19.55		
10	16QAM	25	12		19.52		
10	16QAM	25	25		19.45		20
10	16QAM	50	0		19.46		
10	64QAM	1	0		19.79		
10	64QAM	1	25		19.71		20
10	64QAM	1	49		19.58		
10	64QAM	25	0		18.56		
10	64QAM	25	12		18.51		19
10	64QAM	25	25		18.45		
10	64QAM	50	0		18.47		
10	256QAM	1	0		17.14		17.5
10	256QAM	1	25		17.21		
10	256QAM	1	49		17.07		
10	256QAM	25	0		17.15		17.5
10	256QAM	25	12		17.07		
10	256QAM	25	25		17.01		
10	256QAM	50	0		17.03		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	21.93	21.88	21.91	22
5	QPSK	1	12	21.84	21.89	21.90	
5	QPSK	1	24	21.70	21.70	21.70	
5	QPSK	12	0	20.85	20.86	20.88	21
5	QPSK	12	7	20.89	20.89	20.90	
5	QPSK	12	13	20.84	20.83	20.85	
5	QPSK	25	0	20.77	20.76	20.85	21
5	16QAM	1	0	20.91	20.93	20.96	
5	16QAM	1	12	20.88	20.90	20.89	
5	16QAM	1	24	20.73	20.66	20.67	20
5	16QAM	12	0	19.51	19.46	19.47	
5	16QAM	12	7	19.46	19.50	19.48	
5	16QAM	12	13	19.42	19.37	19.43	20
5	16QAM	25	0	19.46	19.39	19.43	
5	64QAM	1	0	19.75	19.76	19.74	
5	64QAM	1	12	19.70	19.69	19.66	20
5	64QAM	1	24	19.58	19.50	19.58	
5	64QAM	12	0	18.53	18.50	18.54	
5	64QAM	12	7	18.48	18.49	18.47	19
5	64QAM	12	13	18.35	18.35	18.44	
5	64QAM	25	0	18.46	18.39	18.47	
5	256QAM	1	0	17.06	17.13	17.04	17.5
5	256QAM	1	12	17.13	17.18	17.13	
5	256QAM	1	24	17.02	17.04	17.00	
5	256QAM	12	0	17.11	17.14	17.11	17.5
5	256QAM	12	7	16.98	17.00	17.03	
5	256QAM	12	13	17.01	16.98	16.93	
5	256QAM	25	0	16.97	16.95	16.98	



<LTE Band 17 Main Ant State 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	22.19	22.17	22.16	23.5
10	QPSK	1	25	22.23	22.22	22.21	
10	QPSK	1	49	22.18	22.15	22.11	
10	QPSK	25	0	21.20	21.21	21.23	22.5
10	QPSK	25	12	21.33	21.25	21.25	
10	QPSK	25	25	21.24	21.24	21.24	
10	QPSK	50	0	21.28	21.19	21.20	22.5
10	16QAM	1	0	21.43	21.43	21.41	
10	16QAM	1	25	21.38	21.42	21.42	
10	16QAM	1	49	21.40	21.43	21.42	21.5
10	16QAM	25	0	20.24	20.24	20.27	
10	16QAM	25	12	20.37	20.27	20.28	
10	16QAM	25	25	20.26	20.26	20.26	21.5
10	16QAM	50	0	20.28	20.17	20.20	
10	64QAM	1	0	20.40	20.48	20.45	
10	64QAM	1	25	20.45	20.44	20.48	21.5
10	64QAM	1	49	20.50	20.46	20.48	
10	64QAM	25	0	19.24	19.23	19.24	
10	64QAM	25	12	19.33	19.27	19.26	20.5
10	64QAM	25	25	19.27	19.24	19.25	
10	64QAM	50	0	19.28	19.19	19.19	
10	256QAM	1	0	17.60	17.53	17.56	18.5
10	256QAM	1	25	17.53	17.57	17.49	
10	256QAM	1	49	17.50	17.33	17.36	
10	256QAM	25	0	17.50	17.52	17.48	18.5
10	256QAM	25	12	17.51	17.45	17.44	
10	256QAM	25	25	17.43	17.42	17.35	
10	256QAM	50	0	17.49	17.40	17.44	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.14	21.98	22.16	23.5
5	QPSK	1	12	22.18	22.20	22.05	
5	QPSK	1	24	22.18	22.07	21.97	
5	QPSK	12	0	21.15	21.06	21.18	22.5
5	QPSK	12	7	21.22	21.12	21.25	
5	QPSK	12	13	21.12	21.11	21.23	
5	QPSK	25	0	21.14	21.10	21.07	22.5
5	16QAM	1	0	21.29	21.25	21.41	
5	16QAM	1	12	21.31	21.36	21.41	
5	16QAM	1	24	21.38	21.31	21.35	21.5
5	16QAM	12	0	20.18	20.07	20.25	
5	16QAM	12	7	20.21	20.24	20.24	
5	16QAM	12	13	20.24	20.20	20.16	21.5
5	16QAM	25	0	20.11	20.11	20.14	
5	64QAM	1	0	20.36	20.35	20.29	
5	64QAM	1	12	20.38	20.35	20.47	21.5
5	64QAM	1	24	20.37	20.32	20.39	
5	64QAM	12	0	19.06	19.11	19.24	
5	64QAM	12	7	19.30	19.18	19.21	20.5
5	64QAM	12	13	19.23	19.20	19.22	
5	64QAM	25	0	19.27	19.03	19.06	
5	256QAM	1	0	17.48	17.51	17.46	18.5
5	256QAM	1	12	17.47	17.51	17.46	
5	256QAM	1	24	17.35	17.14	17.36	
5	256QAM	12	0	17.30	17.48	17.36	18.5
5	256QAM	12	7	17.46	17.45	17.28	
5	256QAM	12	13	17.24	17.26	17.16	
5	256QAM	25	0	17.35	17.33	17.37	



<LTE Band 17 Main Ant State 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	23.47	23.59	23.53	25
10	QPSK	1	25	23.43	23.54	23.49	
10	QPSK	1	49	23.37	23.38	23.37	
10	QPSK	25	0	22.56	22.59	22.57	24
10	QPSK	25	12	22.48	22.55	22.51	
10	QPSK	25	25	22.41	22.48	22.46	
10	QPSK	50	0	22.50	22.55	22.52	24
10	16QAM	1	0	22.82	22.91	22.96	
10	16QAM	1	25	22.81	22.89	22.94	
10	16QAM	1	49	22.69	22.81	22.90	23
10	16QAM	25	0	21.54	21.62	21.49	
10	16QAM	25	12	21.55	21.61	21.50	
10	16QAM	25	25	21.51	21.62	21.48	23
10	16QAM	50	0	21.50	21.64	21.54	
10	64QAM	1	0	21.74	21.84	21.76	
10	64QAM	1	25	21.75	21.76	21.74	22
10	64QAM	1	49	21.70	21.76	21.65	
10	64QAM	25	0	20.54	20.60	20.51	
10	64QAM	25	12	20.48	20.69	20.52	20
10	64QAM	25	25	20.52	20.64	20.48	
10	64QAM	50	0	20.48	20.66	20.42	
10	256QAM	1	0	18.75	18.79	18.73	20
10	256QAM	1	25	18.64	18.83	18.74	
10	256QAM	1	49	18.70	18.84	18.70	
10	256QAM	25	0	18.70	18.80	18.67	20
10	256QAM	25	12	18.62	18.92	18.69	
10	256QAM	25	25	18.66	18.85	18.67	
10	256QAM	50	0	18.68	18.86	18.56	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.47	23.56	23.49	25
5	QPSK	1	12	23.40	23.53	23.43	
5	QPSK	1	24	23.30	23.29	23.29	
5	QPSK	12	0	22.49	22.57	22.53	24
5	QPSK	12	7	22.45	22.47	22.49	
5	QPSK	12	13	22.31	22.38	22.43	
5	QPSK	25	0	22.47	22.51	22.42	24
5	16QAM	1	0	22.77	22.88	22.88	
5	16QAM	1	12	22.81	22.81	22.85	
5	16QAM	1	24	22.61	22.81	22.82	23
5	16QAM	12	0	21.53	21.54	21.43	
5	16QAM	12	7	21.51	21.53	21.44	
5	16QAM	12	13	21.42	21.59	21.39	23
5	16QAM	25	0	21.44	21.55	21.47	
5	64QAM	1	0	21.71	21.74	21.68	
5	64QAM	1	12	21.69	21.69	21.72	22
5	64QAM	1	24	21.60	21.70	21.56	
5	64QAM	12	0	20.50	20.54	20.41	
5	64QAM	12	7	20.42	20.67	20.51	20
5	64QAM	12	13	20.44	20.60	20.42	
5	64QAM	25	0	20.48	20.60	20.40	
5	256QAM	1	0	18.73	18.76	18.68	20
5	256QAM	1	12	18.61	18.82	18.64	
5	256QAM	1	24	18.65	18.77	18.61	
5	256QAM	12	0	18.70	18.71	18.66	20
5	256QAM	12	7	18.52	18.88	18.59	
5	256QAM	12	13	18.60	18.84	18.63	
5	256QAM	25	0	18.58	18.79	18.54	



<LTE Band 25 Main Ant State 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	15.77	15.81	15.79	16
20	QPSK	1	49	15.71	15.76	15.74	
20	QPSK	1	99	15.75	15.71	15.57	
20	QPSK	50	0	14.75	14.72	14.61	15
20	QPSK	50	24	14.79	14.81	14.68	
20	QPSK	50	50	14.77	14.80	14.66	
20	QPSK	100	0	14.71	14.74	14.66	
20	16QAM	1	0	14.80	14.85	14.77	15
20	16QAM	1	49	14.93	14.87	14.86	
20	16QAM	1	99	14.84	14.74	14.81	
20	16QAM	50	0	13.93	13.93	13.87	14
20	16QAM	50	24	13.97	13.97	13.85	
20	16QAM	50	50	13.96	13.96	13.91	
20	16QAM	100	0	13.97	13.95	13.80	
20	64QAM	1	0	13.90	13.78	13.81	14
20	64QAM	1	49	13.89	13.87	13.89	
20	64QAM	1	99	13.84	13.79	13.81	
20	64QAM	50	0	12.91	12.88	12.85	13
20	64QAM	50	24	12.96	12.97	12.86	
20	64QAM	50	50	12.98	12.95	12.87	
20	64QAM	100	0	12.91	12.94	12.80	
20	256QAM	1	0	10.83	10.86	10.78	11
20	256QAM	1	49	10.98	10.88	10.86	
20	256QAM	1	99	10.97	10.96	10.83	
20	256QAM	50	0	10.78	10.79	10.70	11
20	256QAM	50	24	10.86	10.92	10.71	
20	256QAM	50	50	10.84	10.81	10.74	
20	256QAM	100	0	10.86	10.89	10.75	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	15.50	15.65	15.61	16
15	QPSK	1	37	15.62	15.74	15.66	
15	QPSK	1	74	15.68	15.71	15.47	
15	QPSK	36	0	14.75	14.62	14.55	15
15	QPSK	36	20	14.59	14.61	14.60	
15	QPSK	36	39	14.61	14.71	14.50	
15	QPSK	75	0	14.60	14.54	14.55	
15	16QAM	1	0	14.69	14.81	14.72	15
15	16QAM	1	37	14.81	14.72	14.68	
15	16QAM	1	74	14.79	14.64	14.67	
15	16QAM	36	0	13.92	13.93	13.83	14
15	16QAM	36	20	13.83	13.96	13.71	
15	16QAM	36	39	13.86	13.90	13.91	
15	16QAM	75	0	13.86	13.94	13.62	
15	64QAM	1	0	13.88	13.69	13.70	14
15	64QAM	1	37	13.88	13.75	13.87	
15	64QAM	1	74	13.80	13.79	13.79	
15	64QAM	36	0	12.81	12.78	12.81	13
15	64QAM	36	20	12.91	12.85	12.84	
15	64QAM	36	39	12.82	12.94	12.82	
15	64QAM	75	0	12.88	12.78	12.80	
15	256QAM	1	0	10.64	10.85	10.68	11
15	256QAM	1	37	10.86	10.73	10.77	
15	256QAM	1	74	10.77	10.90	10.65	
15	256QAM	36	0	10.76	10.66	10.53	11
15	256QAM	36	20	10.85	10.87	10.61	
15	256QAM	36	39	10.70	10.70	10.67	
15	256QAM	75	0	10.85	10.74	10.72	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	



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10	QPSK	1	0	15.61	15.71	15.51	16
10	QPSK	1	25	15.68	15.76	15.54	
10	QPSK	1	49	15.63	15.61	15.41	
10	QPSK	25	0	14.57	14.70	14.46	15
10	QPSK	25	12	14.66	14.65	14.48	
10	QPSK	25	25	14.74	14.69	14.58	
10	QPSK	50	0	14.57	14.58	14.50	15
10	16QAM	1	0	14.70	14.79	14.57	
10	16QAM	1	25	14.81	14.69	14.72	
10	16QAM	1	49	14.76	14.56	14.79	14
10	16QAM	25	0	13.76	13.75	13.71	
10	16QAM	25	12	13.80	13.94	13.82	
10	16QAM	25	25	13.79	13.86	13.91	14
10	16QAM	50	0	13.87	13.83	13.74	
10	64QAM	1	0	13.85	13.60	13.67	
10	64QAM	1	25	13.69	13.84	13.75	14
10	64QAM	1	49	13.71	13.73	13.76	
10	64QAM	25	0	12.90	12.80	12.66	
10	64QAM	25	12	12.90	12.86	12.74	13
10	64QAM	25	25	12.96	12.78	12.80	
10	64QAM	50	0	12.74	12.94	12.79	
10	256QAM	1	0	10.69	10.84	10.59	11
10	256QAM	1	25	10.80	10.88	10.81	
10	256QAM	1	49	10.96	10.88	10.63	
10	256QAM	25	0	10.74	10.60	10.68	11
10	256QAM	25	12	10.71	10.72	10.52	
10	256QAM	25	25	10.73	10.68	10.54	
10	256QAM	50	0	10.79	10.81	10.70	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	15.65	15.63	15.52	16
5	QPSK	1	12	15.56	15.60	15.67	
5	QPSK	1	24	15.63	15.61	15.40	
5	QPSK	12	0	14.66	14.57	14.57	15
5	QPSK	12	7	14.78	14.77	14.62	
5	QPSK	12	13	14.60	14.79	14.62	
5	QPSK	25	0	14.56	14.60	14.58	15
5	16QAM	1	0	14.63	14.75	14.74	
5	16QAM	1	12	14.78	14.85	14.84	
5	16QAM	1	24	14.74	14.70	14.81	14
5	16QAM	12	0	13.84	13.81	13.73	
5	16QAM	12	7	13.81	13.82	13.71	
5	16QAM	12	13	13.88	13.95	13.74	14
5	16QAM	25	0	13.95	13.77	13.71	
5	64QAM	1	0	13.73	13.61	13.76	
5	64QAM	1	12	13.74	13.71	13.81	14
5	64QAM	1	24	13.74	13.71	13.63	
5	64QAM	12	0	12.90	12.82	12.83	
5	64QAM	12	7	12.76	12.96	12.69	13
5	64QAM	12	13	12.85	12.92	12.71	
5	64QAM	25	0	12.88	12.79	12.76	
5	256QAM	1	0	10.70	10.76	10.74	11
5	256QAM	1	12	10.79	10.86	10.85	
5	256QAM	1	24	10.78	10.88	10.67	
5	256QAM	12	0	10.72	10.76	10.56	11
5	256QAM	12	7	10.76	10.81	10.70	
5	256QAM	12	13	10.69	10.73	10.54	
5	256QAM	25	0	10.70	10.76	10.65	
Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	15.54	15.62	15.58	16
3	QPSK	1	8	15.69	15.56	15.57	
3	QPSK	1	14	15.58	15.54	15.56	
3	QPSK	8	0	14.59	14.53	14.61	15
3	QPSK	8	4	14.60	14.63	14.59	
3	QPSK	8	7	14.73	14.74	14.59	



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3	QPSK	15	0	14.65	14.62	14.53	
3	16QAM	1	0	14.68	14.66	14.66	15
3	16QAM	1	8	14.92	14.79	14.76	
3	16QAM	1	14	14.70	14.60	14.62	
3	16QAM	8	0	13.76	13.81	13.73	14
3	16QAM	8	4	13.84	13.97	13.85	
3	16QAM	8	7	13.85	13.81	13.86	
3	16QAM	15	0	13.90	13.78	13.80	14
3	64QAM	1	0	13.75	13.77	13.77	
3	64QAM	1	8	13.76	13.79	13.88	
3	64QAM	1	14	13.78	13.64	13.78	13
3	64QAM	8	0	12.88	12.75	12.72	
3	64QAM	8	4	12.85	12.85	12.81	
3	64QAM	8	7	12.82	12.82	12.83	11
3	64QAM	15	0	12.75	12.90	12.70	
3	256QAM	1	0	10.68	10.83	10.75	
3	256QAM	1	8	10.91	10.79	10.78	11
3	256QAM	1	14	10.86	10.81	10.77	
3	256QAM	8	0	10.64	10.70	10.68	
3	256QAM	8	4	10.83	10.73	10.66	11
3	256QAM	8	7	10.67	10.78	10.73	
3	256QAM	15	0	10.70	10.70	10.65	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	15.67	15.66	15.57	16
1.4	QPSK	1	3	15.49	15.72	15.60	
1.4	QPSK	1	5	15.62	15.78	15.59	
1.4	QPSK	3	0	15.51	15.71	15.67	
1.4	QPSK	3	1	15.53	15.67	15.62	
1.4	QPSK	3	3	15.52	15.63	15.61	
1.4	QPSK	6	0	14.79	14.67	14.53	15
1.4	16QAM	1	0	14.47	14.63	14.85	15
1.4	16QAM	1	3	14.64	14.79	14.78	
1.4	16QAM	1	5	14.68	14.96	14.66	
1.4	16QAM	3	0	14.54	14.69	14.59	
1.4	16QAM	3	1	14.79	14.74	14.76	
1.4	16QAM	3	3	14.83	14.79	14.85	
1.4	16QAM	6	0	13.68	13.91	13.80	14
1.4	64QAM	1	0	13.84	13.87	13.78	14
1.4	64QAM	1	3	13.77	13.91	13.51	
1.4	64QAM	1	5	13.56	13.66	13.85	
1.4	64QAM	3	0	13.58	13.64	13.57	
1.4	64QAM	3	1	13.86	13.71	13.88	
1.4	64QAM	3	3	13.81	13.82	13.60	
1.4	64QAM	6	0	12.76	12.95	12.75	13
1.4	256QAM	1	0	10.60	10.76	10.75	11
1.4	256QAM	1	3	10.83	10.77	10.84	
1.4	256QAM	1	5	10.75	10.95	10.89	
1.4	256QAM	3	0	10.56	10.83	10.49	
1.4	256QAM	3	1	10.77	10.63	10.79	
1.4	256QAM	3	3	10.83	10.95	10.56	
1.4	256QAM	6	0	10.62	10.91	10.74	11



◀LTE Band 25 MIMO2 Ant State 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	17.27	17.47	17.36	17.5
20	QPSK	1	49	17.16	17.38	17.24	
20	QPSK	1	99	17.13	17.33	17.18	
20	QPSK	50	0	17.36	17.44	17.39	17.5
20	QPSK	50	24	17.16	17.34	17.14	
20	QPSK	50	50	17.10	17.42	17.17	
20	QPSK	100	0	17.34	17.45	17.32	17.5
20	16QAM	1	0	17.26	17.46	17.28	
20	16QAM	1	49	17.16	17.36	17.15	
20	16QAM	1	99	17.09	17.24	17.08	17.5
20	16QAM	50	0	17.33	17.43	17.38	
20	16QAM	50	24	17.13	17.30	17.05	
20	16QAM	50	50	17.05	17.37	17.15	17.5
20	16QAM	100	0	17.27	17.43	17.29	
20	64QAM	1	0	17.26	17.42	17.22	
20	64QAM	1	49	17.08	17.28	17.13	17.5
20	64QAM	1	99	16.99	17.16	17.03	
20	64QAM	50	0	17.33	17.39	17.37	
20	64QAM	50	24	17.08	17.26	16.98	17.5
20	64QAM	50	50	16.97	17.37	17.06	
20	64QAM	100	0	17.27	17.39	17.22	
20	256QAM	1	0	17.40	17.06	17.44	17.5
20	256QAM	1	49	17.32	17.03	17.39	
20	256QAM	1	99	17.30	17.00	17.36	
20	256QAM	50	0	17.22	16.95	17.28	17.5
20	256QAM	50	24	17.14	16.95	17.19	
20	256QAM	50	50	17.08	16.90	17.09	
20	256QAM	100	0	17.02	16.81	17.03	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	17.19	17.45	17.27	17.5
15	QPSK	1	37	17.07	17.35	17.23	
15	QPSK	1	74	17.11	17.24	17.12	
15	QPSK	36	0	17.35	17.34	17.33	17.5
15	QPSK	36	20	17.10	17.30	17.12	
15	QPSK	36	39	17.08	17.39	17.14	
15	QPSK	75	0	17.24	17.40	17.22	17.5
15	16QAM	1	0	17.25	17.43	17.22	
15	16QAM	1	37	17.16	17.34	17.12	
15	16QAM	1	74	17.09	17.18	17.01	17.5
15	16QAM	36	0	17.27	17.41	17.29	
15	16QAM	36	20	17.11	17.22	17.00	
15	16QAM	36	39	16.98	17.32	17.06	17.5
15	16QAM	75	0	17.23	17.36	17.26	
15	64QAM	1	0	17.25	17.42	17.12	
15	64QAM	1	37	17.01	17.23	17.04	17.5
15	64QAM	1	74	16.90	17.11	17.03	
15	64QAM	36	0	17.25	17.31	17.32	
15	64QAM	36	20	17.07	17.20	16.88	17.5
15	64QAM	36	39	16.91	17.30	17.03	
15	64QAM	75	0	17.17	17.39	17.14	
15	256QAM	1	0	17.35	16.97	17.41	17.5
15	256QAM	1	37	17.23	17.02	17.38	
15	256QAM	1	74	17.30	16.90	17.34	
15	256QAM	36	0	17.14	16.89	17.18	17.5
15	256QAM	36	20	17.05	16.93	17.09	
15	256QAM	36	39	16.98	16.82	17.02	
15	256QAM	75	0	16.94	16.75	17.02	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	



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10	QPSK	1	0	17.12	17.46	17.20	17.5
10	QPSK	1	25	17.04	17.33	17.16	
10	QPSK	1	49	17.06	17.21	17.08	
10	QPSK	25	0	17.32	17.30	17.32	17.5
10	QPSK	25	12	17.03	17.20	17.11	
10	QPSK	25	25	17.02	17.36	17.06	
10	QPSK	50	0	17.20	17.34	17.14	17.5
10	16QAM	1	0	17.22	17.37	17.19	
10	16QAM	1	25	17.12	17.30	17.12	
10	16QAM	1	49	17.07	17.16	16.92	17.5
10	16QAM	25	0	17.22	17.36	17.24	
10	16QAM	25	12	17.01	17.13	16.97	
10	16QAM	25	25	16.89	17.26	17.05	17.5
10	16QAM	50	0	17.18	17.27	17.25	
10	64QAM	1	0	17.15	17.41	17.12	
10	64QAM	1	25	16.91	17.23	17.03	17.5
10	64QAM	1	49	16.83	17.03	16.96	
10	64QAM	25	0	17.21	17.27	17.31	
10	64QAM	25	12	17.07	17.14	16.80	17.5
10	64QAM	25	25	16.85	17.20	16.93	
10	64QAM	50	0	17.07	17.29	17.05	
10	256QAM	1	0	17.27	16.90	17.38	17.5
10	256QAM	1	25	17.19	16.96	17.28	
10	256QAM	1	49	17.26	16.89	17.33	
10	256QAM	25	0	17.09	16.80	17.17	17.5
10	256QAM	25	12	16.96	16.89	17.01	
10	256QAM	25	25	16.97	16.79	16.99	
10	256QAM	50	0	16.85	16.66	17.01	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	17.11	17.44	17.16	17.5
5	QPSK	1	12	17.02	17.26	17.07	
5	QPSK	1	24	16.98	17.20	17.05	
5	QPSK	12	0	17.23	17.21	17.29	17.5
5	QPSK	12	7	16.98	17.16	17.08	
5	QPSK	12	13	17.00	17.29	16.97	
5	QPSK	25	0	17.16	17.34	17.04	17.5
5	16QAM	1	0	17.17	17.36	17.18	
5	16QAM	1	12	17.08	17.25	17.08	
5	16QAM	1	24	17.00	17.12	16.92	17.5
5	16QAM	12	0	17.12	17.33	17.24	
5	16QAM	12	7	17.00	17.10	16.89	
5	16QAM	12	13	16.79	17.18	17.00	17.5
5	16QAM	25	0	17.16	17.23	17.20	
5	64QAM	1	0	17.07	17.32	17.09	
5	64QAM	1	12	16.84	17.14	17.02	17.5
5	64QAM	1	24	16.75	16.98	16.89	
5	64QAM	12	0	17.12	17.19	17.26	
5	64QAM	12	7	16.98	17.11	16.72	17.5
5	64QAM	12	13	16.78	17.18	16.83	
5	64QAM	25	0	17.05	17.20	17.05	
5	256QAM	1	0	17.21	16.86	17.36	17.5
5	256QAM	1	12	17.11	16.90	17.25	
5	256QAM	1	24	17.26	16.85	17.23	
5	256QAM	12	0	17.00	16.79	17.15	17.5
5	256QAM	12	7	16.87	16.83	16.98	
5	256QAM	12	13	16.92	16.72	16.91	
5	256QAM	25	0	16.77	16.56	16.97	
Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	17.06	17.43	17.13	17.5
3	QPSK	1	8	16.97	17.21	17.06	
3	QPSK	1	14	16.94	17.17	17.05	
3	QPSK	8	0	17.23	17.18	17.27	17.5
3	QPSK	8	4	16.92	17.12	17.07	
3	QPSK	8	7	16.91	17.23	16.96	



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3	QPSK	15	0	17.14	17.25	17.01	
3	16QAM	1	0	17.09	17.28	17.11	17.5
3	16QAM	1	8	17.05	17.20	17.01	
3	16QAM	1	14	16.92	17.11	16.88	
3	16QAM	8	0	17.11	17.30	17.20	17.5
3	16QAM	8	4	16.93	17.02	16.84	
3	16QAM	8	7	16.70	17.09	17.00	
3	16QAM	15	0	17.06	17.13	17.10	17.5
3	64QAM	1	0	16.99	17.32	17.06	
3	64QAM	1	8	16.84	17.04	16.92	
3	64QAM	1	14	16.67	16.90	16.80	17.5
3	64QAM	8	0	17.03	17.13	17.22	
3	64QAM	8	4	16.88	17.07	16.69	
3	64QAM	8	7	16.75	17.13	16.76	17.5
3	64QAM	15	0	17.02	17.17	17.02	
3	256QAM	1	0	17.18	16.86	17.35	
3	256QAM	1	8	17.05	16.83	17.24	17.5
3	256QAM	1	14	17.20	16.75	17.19	
3	256QAM	8	0	16.94	16.69	17.12	
3	256QAM	8	4	16.82	16.74	16.92	17.5
3	256QAM	8	7	16.87	16.71	16.87	
3	256QAM	15	0	16.69	16.47	16.95	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	16.96	17.40	17.05	17.5
1.4	QPSK	1	3	16.88	17.18	16.99	
1.4	QPSK	1	5	16.88	17.12	17.05	
1.4	QPSK	3	0	17.23	17.11	17.23	
1.4	QPSK	3	1	16.83	17.07	17.05	
1.4	QPSK	3	3	16.87	17.18	16.89	
1.4	QPSK	6	0	17.12	17.25	17.00	17.5
1.4	16QAM	1	0	17.08	17.25	17.04	17.5
1.4	16QAM	1	3	17.03	17.14	17.00	
1.4	16QAM	1	5	16.88	17.06	16.85	
1.4	16QAM	3	0	17.05	17.22	17.18	
1.4	16QAM	3	1	16.86	16.96	16.74	
1.4	16QAM	3	3	16.61	17.03	16.92	
1.4	16QAM	6	0	17.05	17.12	17.06	17.5
1.4	64QAM	1	0	16.93	17.22	17.05	17.5
1.4	64QAM	1	3	16.81	16.94	16.83	
1.4	64QAM	1	5	16.59	16.88	16.80	
1.4	64QAM	3	0	17.00	17.04	17.14	
1.4	64QAM	3	1	16.87	17.05	16.67	
1.4	64QAM	3	3	16.65	17.05	16.67	
1.4	64QAM	6	0	16.95	17.16	16.92	17.5
1.4	256QAM	1	0	17.16	16.85	17.26	17.5
1.4	256QAM	1	3	17.02	16.81	17.24	
1.4	256QAM	1	5	17.18	16.73	17.16	
1.4	256QAM	3	0	16.88	16.63	17.03	
1.4	256QAM	3	1	16.82	16.72	16.91	
1.4	256QAM	3	3	16.77	16.67	16.80	
1.4	256QAM	6	0	16.61	16.42	16.89	17.5



<LTE Band 25 Main Ant State 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	16.28	16.31	16.14	17
20	QPSK	1	49	16.25	16.26	16.13	
20	QPSK	1	99	16.20	16.18	16.08	
20	QPSK	50	0	15.29	15.26	15.23	16
20	QPSK	50	24	15.35	15.37	15.31	
20	QPSK	50	50	15.32	15.34	15.28	
20	QPSK	100	0	15.35	15.36	15.22	
20	16QAM	1	0	15.43	15.52	15.46	16
20	16QAM	1	49	15.52	15.59	15.57	
20	16QAM	1	99	15.36	15.47	15.56	
20	16QAM	50	0	14.30	14.31	14.24	15
20	16QAM	50	24	14.36	14.36	14.29	
20	16QAM	50	50	14.34	14.38	14.25	
20	16QAM	100	0	14.31	14.35	14.23	
20	64QAM	1	0	14.35	14.52	14.40	15
20	64QAM	1	49	14.65	14.38	14.32	
20	64QAM	1	99	14.38	14.39	14.31	
20	64QAM	50	0	13.30	13.25	13.23	14
20	64QAM	50	24	13.40	13.35	13.26	
20	64QAM	50	50	13.37	13.33	13.25	
20	64QAM	100	0	13.33	13.31	13.24	
20	256QAM	1	0	11.52	11.57	11.52	12
20	256QAM	1	49	11.56	11.42	11.41	
20	256QAM	1	99	11.47	11.43	11.45	
20	256QAM	50	0	11.35	11.38	11.28	12
20	256QAM	50	24	11.43	11.37	11.25	
20	256QAM	50	50	11.40	11.39	11.33	
20	256QAM	100	0	11.38	11.38	11.23	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	16.18	16.18	16.09	17
15	QPSK	1	37	16.19	16.18	16.15	
15	QPSK	1	74	16.24	16.16	16.09	
15	QPSK	36	0	15.24	15.21	15.16	16
15	QPSK	36	20	15.36	15.33	15.15	
15	QPSK	36	39	15.32	15.29	15.21	
15	QPSK	75	0	15.30	15.37	15.18	
15	16QAM	1	0	15.44	15.54	15.45	16
15	16QAM	1	37	15.51	15.65	15.43	
15	16QAM	1	74	15.48	15.52	15.34	
15	16QAM	36	0	14.27	14.27	14.16	15
15	16QAM	36	20	14.31	14.38	14.17	
15	16QAM	36	39	14.32	14.36	14.23	
15	16QAM	75	0	14.34	14.36	14.09	
15	64QAM	1	0	14.50	14.40	14.35	15
15	64QAM	1	37	14.48	14.49	14.30	
15	64QAM	1	74	14.42	14.31	14.32	
15	64QAM	36	0	13.26	13.17	13.11	14
15	64QAM	36	20	13.33	13.31	13.14	
15	64QAM	36	39	13.31	13.35	13.22	
15	64QAM	75	0	13.34	13.28	13.17	
15	256QAM	1	0	11.48	11.51	11.50	12
15	256QAM	1	37	11.48	11.37	11.41	
15	256QAM	1	74	11.38	11.39	11.36	
15	256QAM	36	0	11.28	11.33	11.25	12
15	256QAM	36	20	11.35	11.30	11.21	
15	256QAM	36	39	11.31	11.29	11.30	
15	256QAM	75	0	11.37	11.28	11.19	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	



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10	QPSK	1	0	16.27	16.27	16.25	17
10	QPSK	1	25	16.26	16.25	16.24	
10	QPSK	1	49	16.24	16.20	16.14	
10	QPSK	25	0	15.29	15.31	15.31	16
10	QPSK	25	12	15.40	15.42	15.32	
10	QPSK	25	25	15.37	15.38	15.34	
10	QPSK	50	0	15.42	15.41	15.30	16
10	16QAM	1	0	15.57	15.60	15.58	
10	16QAM	1	25	15.75	15.62	15.52	
10	16QAM	1	49	15.60	15.75	15.53	15
10	16QAM	25	0	14.30	14.36	14.34	
10	16QAM	25	12	14.43	14.41	14.31	
10	16QAM	25	25	14.39	14.42	14.36	15
10	16QAM	50	0	14.38	14.43	14.37	
10	64QAM	1	0	14.50	14.47	14.43	
10	64QAM	1	25	14.42	14.48	14.59	14
10	64QAM	1	49	14.51	14.55	14.37	
10	64QAM	25	0	13.28	13.35	13.30	
10	64QAM	25	12	13.41	13.43	13.34	12
10	64QAM	25	25	13.35	13.37	13.33	
10	64QAM	50	0	13.37	13.39	13.30	
10	256QAM	1	0	11.47	11.54	11.50	12
10	256QAM	1	25	11.55	11.34	11.34	
10	256QAM	1	49	11.42	11.39	11.39	
10	256QAM	25	0	11.35	11.34	11.25	12
10	256QAM	25	12	11.33	11.33	11.21	
10	256QAM	25	25	11.35	11.37	11.28	
10	256QAM	50	0	11.36	11.36	11.20	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	16.20	16.23	16.17	17
5	QPSK	1	12	16.25	16.22	16.28	
5	QPSK	1	24	16.26	16.25	16.16	
5	QPSK	12	0	15.36	15.31	15.30	16
5	QPSK	12	7	15.37	15.39	15.24	
5	QPSK	12	13	15.36	15.38	15.31	
5	QPSK	25	0	15.38	15.39	15.26	16
5	16QAM	1	0	15.74	15.73	15.60	
5	16QAM	1	12	15.73	15.70	15.63	
5	16QAM	1	24	15.81	15.74	15.56	15
5	16QAM	12	0	14.39	14.32	14.31	
5	16QAM	12	7	14.46	14.47	14.31	
5	16QAM	12	13	14.40	14.42	14.29	15
5	16QAM	25	0	14.38	14.40	14.25	
5	64QAM	1	0	14.57	14.66	14.32	
5	64QAM	1	12	14.57	14.54	14.44	15
5	64QAM	1	24	14.52	14.56	14.38	
5	64QAM	12	0	13.35	13.34	13.25	
5	64QAM	12	7	13.40	13.42	13.28	14
5	64QAM	12	13	13.33	13.39	13.34	
5	64QAM	25	0	13.37	13.34	13.25	
5	256QAM	1	0	11.42	11.48	11.52	12
5	256QAM	1	12	11.51	11.37	11.33	
5	256QAM	1	24	11.40	11.41	11.44	
5	256QAM	12	0	11.35	11.33	11.25	12
5	256QAM	12	7	11.43	11.28	11.15	
5	256QAM	12	13	11.35	11.38	11.33	
5	256QAM	25	0	11.36	11.38	11.15	
Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	16.25	16.24	16.11	17
3	QPSK	1	8	16.28	16.28	16.24	
3	QPSK	1	14	16.28	16.24	16.12	
3	QPSK	8	0	15.33	15.35	15.25	16
3	QPSK	8	4	15.38	15.36	15.30	
3	QPSK	8	7	15.35	15.33	15.31	



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3	QPSK	15	0	15.34	15.34	15.19	
3	16QAM	1	0	15.64	15.69	15.55	16
3	16QAM	1	8	15.76	15.73	15.57	
3	16QAM	1	14	15.63	15.64	15.51	
3	16QAM	8	0	14.42	14.37	14.30	15
3	16QAM	8	4	14.41	14.41	14.41	
3	16QAM	8	7	14.38	14.42	14.37	
3	16QAM	15	0	14.36	14.37	14.23	
3	64QAM	1	0	14.45	14.46	14.39	15
3	64QAM	1	8	14.48	14.49	14.44	
3	64QAM	1	14	14.48	14.55	14.37	
3	64QAM	8	0	13.35	13.32	13.25	14
3	64QAM	8	4	13.36	13.35	13.36	
3	64QAM	8	7	13.36	13.30	13.32	
3	64QAM	15	0	13.32	13.35	13.18	
3	256QAM	1	0	11.45	11.51	11.49	12
3	256QAM	1	8	11.56	11.33	11.33	
3	256QAM	1	14	11.42	11.39	11.37	
3	256QAM	8	0	11.28	11.33	11.21	12
3	256QAM	8	4	11.37	11.35	11.20	
3	256QAM	8	7	11.33	11.35	11.28	
3	256QAM	15	0	11.32	11.31	11.21	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	16.26	16.27	16.17	17
1.4	QPSK	1	3	16.25	16.30	16.19	
1.4	QPSK	1	5	16.29	16.21	16.13	
1.4	QPSK	3	0	16.24	16.30	16.20	
1.4	QPSK	3	1	16.30	16.24	16.19	
1.4	QPSK	3	3	16.26	16.30	16.16	
1.4	QPSK	6	0	15.30	15.31	15.27	16
1.4	16QAM	1	0	15.59	15.64	15.64	16
1.4	16QAM	1	3	15.63	15.80	15.49	
1.4	16QAM	1	5	15.45	15.64	15.61	
1.4	16QAM	3	0	15.42	15.46	15.24	
1.4	16QAM	3	1	15.39	15.48	15.39	
1.4	16QAM	3	3	15.44	15.44	15.31	
1.4	16QAM	6	0	14.24	14.31	14.26	15
1.4	64QAM	1	0	14.45	14.46	14.36	15
1.4	64QAM	1	3	14.44	14.51	14.38	
1.4	64QAM	1	5	14.42	14.49	14.49	
1.4	64QAM	3	0	14.34	14.43	14.28	
1.4	64QAM	3	1	14.35	14.37	14.31	
1.4	64QAM	3	3	14.40	14.36	14.30	
1.4	64QAM	6	0	13.34	13.36	13.25	14
1.4	256QAM	1	0	11.45	11.51	11.49	12
1.4	256QAM	1	3	11.56	11.33	11.33	
1.4	256QAM	1	5	11.42	11.39	11.37	
1.4	256QAM	3	0	11.28	11.33	11.21	
1.4	256QAM	3	1	11.37	11.35	11.20	
1.4	256QAM	3	3	11.33	11.35	11.28	
1.4	256QAM	6	0	11.32	11.31	11.21	12



◀LTE Band 25 MIMO2 Ant State 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	13.63	13.14	13.37	14
20	QPSK	1	49	13.53	13.05	13.27	
20	QPSK	1	99	13.39	13.00	13.19	
20	QPSK	50	0	13.48	13.10	13.39	14
20	QPSK	50	24	13.47	12.99	13.20	
20	QPSK	50	50	13.39	13.02	13.11	
20	QPSK	100	0	13.42	13.09	13.34	
20	16QAM	1	0	13.61	13.09	13.37	14
20	16QAM	1	49	13.50	13.05	13.19	
20	16QAM	1	99	13.33	12.97	13.10	
20	16QAM	50	0	13.40	13.07	13.34	14
20	16QAM	50	24	13.45	12.91	13.13	
20	16QAM	50	50	13.32	12.99	13.04	
20	16QAM	100	0	13.42	13.02	13.31	
20	64QAM	1	0	13.61	13.03	13.30	14
20	64QAM	1	49	13.49	13.00	13.15	
20	64QAM	1	99	13.29	12.89	13.01	
20	64QAM	50	0	13.35	13.04	13.27	14
20	64QAM	50	24	13.42	12.84	13.05	
20	64QAM	50	50	13.29	12.89	13.03	
20	64QAM	100	0	13.32	13.01	13.28	
20	256QAM	1	0	13.24	12.95	13.26	14
20	256QAM	1	49	13.15	12.87	13.20	
20	256QAM	1	99	13.12	12.80	13.12	
20	256QAM	50	0	13.02	12.76	13.08	14
20	256QAM	50	24	12.92	12.66	13.02	
20	256QAM	50	50	12.89	12.61	13.00	
20	256QAM	100	0	12.85	12.53	12.94	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	13.59	13.09	13.32	14
15	QPSK	1	37	13.49	12.98	13.21	
15	QPSK	1	74	13.38	12.99	13.10	
15	QPSK	36	0	13.42	13.09	13.29	14
15	QPSK	36	20	13.38	12.93	13.16	
15	QPSK	36	39	13.36	12.99	13.11	
15	QPSK	75	0	13.39	13.02	13.34	
15	16QAM	1	0	13.59	12.99	13.34	14
15	16QAM	1	37	13.45	13.01	13.18	
15	16QAM	1	74	13.23	12.92	13.10	
15	16QAM	36	0	13.35	13.02	13.33	14
15	16QAM	36	20	13.38	12.86	13.12	
15	16QAM	36	39	13.26	12.98	13.04	
15	16QAM	75	0	13.38	13.01	13.27	
15	64QAM	1	0	13.57	12.94	13.22	14
15	64QAM	1	37	13.46	12.98	13.14	
15	64QAM	1	74	13.25	12.89	12.93	
15	64QAM	36	0	13.27	12.98	13.23	14
15	64QAM	36	20	13.41	12.82	13.01	
15	64QAM	36	39	13.19	12.83	12.99	
15	64QAM	75	0	13.31	12.91	13.27	
15	256QAM	1	0	13.18	12.89	13.26	14
15	256QAM	1	37	13.08	12.85	13.10	
15	256QAM	1	74	13.12	12.79	13.08	
15	256QAM	36	0	12.94	12.71	13.07	14
15	256QAM	36	20	12.92	12.56	12.96	
15	256QAM	36	39	12.81	12.60	12.97	
15	256QAM	75	0	12.75	12.43	12.93	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	



10	QPSK	1	0	13.49	13.01	13.25	14
10	QPSK	1	25	13.48	12.92	13.11	
10	QPSK	1	49	13.28	12.99	13.01	
10	QPSK	25	0	13.40	13.05	13.21	14
10	QPSK	25	12	13.28	12.84	13.11	
10	QPSK	25	25	13.35	12.94	13.01	
10	QPSK	50	0	13.32	12.98	13.25	14
10	16QAM	1	0	13.58	12.95	13.28	
10	16QAM	1	25	13.37	12.99	13.17	
10	16QAM	1	49	13.16	12.84	13.09	14
10	16QAM	25	0	13.32	12.95	13.24	
10	16QAM	25	12	13.36	12.84	13.03	
10	16QAM	25	25	13.24	12.92	12.96	14
10	16QAM	50	0	13.35	13.00	13.23	
10	64QAM	1	0	13.55	12.91	13.22	
10	64QAM	1	25	13.46	12.94	13.09	14
10	64QAM	1	49	13.24	12.83	12.84	
10	64QAM	25	0	13.20	12.90	13.21	
10	64QAM	25	12	13.40	12.78	12.91	14
10	64QAM	25	25	13.10	12.81	12.97	
10	64QAM	50	0	13.26	12.89	13.27	
10	256QAM	1	0	13.08	12.84	13.16	14
10	256QAM	1	25	13.00	12.83	13.06	
10	256QAM	1	49	13.11	12.79	13.04	
10	256QAM	25	0	12.94	12.67	13.02	14
10	256QAM	25	12	12.89	12.50	12.95	
10	256QAM	25	25	12.74	12.58	12.92	
10	256QAM	50	0	12.65	12.43	12.86	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	13.42	12.94	13.25	14
5	QPSK	1	12	13.40	12.82	13.07	
5	QPSK	1	24	13.22	12.94	12.91	
5	QPSK	12	0	13.39	12.97	13.12	14
5	QPSK	12	7	13.18	12.77	13.09	
5	QPSK	12	13	13.35	12.89	12.93	
5	QPSK	25	0	13.30	12.89	13.25	14
5	16QAM	1	0	13.48	12.94	13.18	
5	16QAM	1	12	13.33	12.89	13.15	
5	16QAM	1	24	13.08	12.78	13.04	14
5	16QAM	12	0	13.27	12.92	13.24	
5	16QAM	12	7	13.26	12.79	12.93	
5	16QAM	12	13	13.14	12.83	12.87	14
5	16QAM	25	0	13.27	12.91	13.13	
5	64QAM	1	0	13.46	12.86	13.20	
5	64QAM	1	12	13.37	12.86	13.03	14
5	64QAM	1	24	13.20	12.75	12.77	
5	64QAM	12	0	13.16	12.90	13.20	
5	64QAM	12	7	13.39	12.70	12.88	14
5	64QAM	12	13	13.01	12.74	12.93	
5	64QAM	25	0	13.26	12.84	13.17	
5	256QAM	1	0	13.04	12.78	13.11	14
5	256QAM	1	12	13.00	12.78	13.01	
5	256QAM	1	24	13.05	12.73	12.97	
5	256QAM	12	0	12.86	12.66	13.02	14
5	256QAM	12	7	12.85	12.48	12.95	
5	256QAM	12	13	12.70	12.58	12.86	
5	256QAM	25	0	12.65	12.42	12.77	
Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	13.36	12.91	13.25	14
3	QPSK	1	8	13.36	12.78	13.00	
3	QPSK	1	14	13.16	12.94	12.86	
3	QPSK	8	0	13.38	12.88	13.08	14
3	QPSK	8	4	13.08	12.72	13.03	
3	QPSK	8	7	13.27	12.84	12.93	



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3	QPSK	15	0	13.30	12.81	13.16	
3	16QAM	1	0	13.43	12.87	13.17	14
3	16QAM	1	8	13.23	12.82	13.13	
3	16QAM	1	14	13.01	12.78	13.04	
3	16QAM	8	0	13.25	12.89	13.16	14
3	16QAM	8	4	13.18	12.71	12.84	
3	16QAM	8	7	13.12	12.77	12.82	
3	16QAM	15	0	13.26	12.90	13.08	14
3	64QAM	1	0	13.46	12.78	13.19	
3	64QAM	1	8	13.27	12.82	13.01	
3	64QAM	1	14	13.14	12.68	12.71	14
3	64QAM	8	0	13.12	12.80	13.15	
3	64QAM	8	4	13.29	12.62	12.84	
3	64QAM	8	7	12.97	12.73	12.89	14
3	64QAM	15	0	13.20	12.82	13.07	
3	256QAM	1	0	12.99	12.75	13.02	
3	256QAM	1	8	12.90	12.71	12.95	14
3	256QAM	1	14	12.96	12.65	12.93	
3	256QAM	8	0	12.79	12.60	13.02	
3	256QAM	8	4	12.85	12.40	12.85	14
3	256QAM	8	7	12.70	12.53	12.82	
3	256QAM	15	0	12.61	12.41	12.75	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	13.33	12.90	13.15	14
1.4	QPSK	1	3	13.35	12.73	12.93	
1.4	QPSK	1	5	13.06	12.92	12.84	
1.4	QPSK	3	0	13.36	12.84	13.08	
1.4	QPSK	3	1	12.98	12.72	12.96	
1.4	QPSK	3	3	13.18	12.74	12.84	
1.4	QPSK	6	0	13.28	12.81	13.15	14
1.4	16QAM	1	0	13.34	12.84	13.14	14
1.4	16QAM	1	3	13.19	12.78	13.03	
1.4	16QAM	1	5	12.94	12.75	13.03	
1.4	16QAM	3	0	13.23	12.88	13.12	
1.4	16QAM	3	1	13.15	12.69	12.80	
1.4	16QAM	3	3	13.10	12.69	12.79	
1.4	16QAM	6	0	13.24	12.89	13.04	14
1.4	64QAM	1	0	13.46	12.71	13.14	14
1.4	64QAM	1	3	13.23	12.73	12.94	
1.4	64QAM	1	5	13.13	12.63	12.66	
1.4	64QAM	3	0	13.02	12.70	13.09	
1.4	64QAM	3	1	13.29	12.56	12.77	
1.4	64QAM	3	3	12.93	12.65	12.89	
1.4	64QAM	6	0	13.16	12.73	13.01	14
1.4	256QAM	1	0	12.95	12.69	13.02	14
1.4	256QAM	1	3	12.89	12.69	12.89	
1.4	256QAM	1	5	12.96	12.55	12.89	
1.4	256QAM	3	0	12.78	12.57	12.92	
1.4	256QAM	3	1	12.77	12.33	12.81	
1.4	256QAM	3	3	12.70	12.48	12.79	
1.4	256QAM	6	0	12.59	12.41	12.72	14



<LTE Band 26 Main Ant State 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	21.86	21.89	21.88	23
15	QPSK	1	37	22.01	22.08	22.06	
15	QPSK	1	74	21.94	21.96	21.98	
15	QPSK	36	0	21.02	21.04	21.08	22
15	QPSK	36	20	21.11	21.16	21.10	
15	QPSK	36	39	21.10	21.06	21.05	
15	QPSK	75	0	21.11	21.13	21.10	22
15	16QAM	1	0	21.15	21.27	21.22	
15	16QAM	1	37	21.42	21.27	21.39	
15	16QAM	1	74	21.24	21.44	21.27	21
15	16QAM	36	0	20.02	20.04	20.09	
15	16QAM	36	20	20.16	20.06	20.18	
15	16QAM	36	39	20.12	20.09	20.13	21
15	16QAM	75	0	20.14	20.00	20.15	
15	64QAM	1	0	20.06	20.17	20.05	
15	64QAM	1	37	20.27	20.15	20.39	21
15	64QAM	1	74	20.20	20.27	20.18	
15	64QAM	36	0	19.01	19.02	19.08	
15	64QAM	36	20	19.14	19.04	19.17	20
15	64QAM	36	39	19.12	19.06	19.08	
15	64QAM	75	0	19.12	19.02	19.13	
15	256QAM	1	0	17.21	17.34	17.23	18
15	256QAM	1	37	17.38	17.26	17.45	
15	256QAM	1	74	17.39	17.47	17.48	
15	256QAM	36	0	17.20	17.16	17.31	18
15	256QAM	36	20	17.26	17.17	17.37	
15	256QAM	36	39	17.18	17.22	17.27	
15	256QAM	75	0	17.29	17.15	17.35	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	21.82	21.72	21.74	23
10	QPSK	1	25	21.86	22.01	22.06	
10	QPSK	1	49	21.80	21.77	21.97	
10	QPSK	25	0	20.97	20.86	21.07	22
10	QPSK	25	12	21.02	20.99	21.01	
10	QPSK	25	25	21.04	21.02	20.95	
10	QPSK	50	0	21.01	21.12	20.99	22
10	16QAM	1	0	21.10	21.24	21.20	
10	16QAM	1	25	21.26	21.17	21.22	
10	16QAM	1	49	21.11	21.42	21.10	21
10	16QAM	25	0	19.96	20.03	20.09	
10	16QAM	25	12	19.96	19.95	20.04	
10	16QAM	25	25	20.01	20.06	20.08	21
10	16QAM	50	0	20.03	19.83	20.04	
10	64QAM	1	0	19.94	20.15	20.03	
10	64QAM	1	25	20.14	20.07	20.37	21
10	64QAM	1	49	20.04	20.14	19.98	
10	64QAM	25	0	18.98	18.94	19.04	
10	64QAM	25	12	19.08	18.93	19.09	20
10	64QAM	25	25	19.06	18.97	18.99	
10	64QAM	50	0	19.00	18.91	19.13	
10	256QAM	1	0	17.10	17.27	17.12	18
10	256QAM	1	25	17.37	17.08	17.44	
10	256QAM	1	49	17.27	17.36	17.44	
10	256QAM	25	0	17.15	16.99	17.23	18
10	256QAM	25	12	17.08	16.98	17.33	
10	256QAM	25	25	17.16	17.05	17.20	
10	256QAM	50	0	17.15	16.99	17.27	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	



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5	QPSK	1	0	21.69	21.75	21.87	23
5	QPSK	1	12	21.98	22.06	22.01	
5	QPSK	1	24	21.94	21.87	21.90	
5	QPSK	12	0	21.01	21.02	20.98	22
5	QPSK	12	7	21.04	21.07	21.08	
5	QPSK	12	13	20.99	21.01	21.01	
5	QPSK	25	0	21.02	21.11	21.00	22
5	16QAM	1	0	21.05	21.20	21.20	
5	16QAM	1	12	21.31	21.27	21.33	
5	16QAM	1	24	21.11	21.24	21.10	21
5	16QAM	12	0	19.88	19.88	20.05	
5	16QAM	12	7	19.98	19.95	20.11	
5	16QAM	12	13	20.08	20.08	19.93	21
5	16QAM	25	0	20.11	19.82	20.08	
5	64QAM	1	0	19.97	20.00	19.98	
5	64QAM	1	12	20.17	20.01	20.37	20
5	64QAM	1	24	20.10	20.15	20.16	
5	64QAM	12	0	18.82	18.99	19.05	
5	64QAM	12	7	19.14	19.04	19.05	18
5	64QAM	12	13	19.08	18.87	18.88	
5	64QAM	25	0	19.02	18.86	19.10	
5	256QAM	1	0	17.09	17.27	17.11	18
5	256QAM	1	12	17.31	17.19	17.35	
5	256QAM	1	24	17.25	17.36	17.39	
5	256QAM	12	0	17.04	16.96	17.13	18
5	256QAM	12	7	17.09	16.99	17.23	
5	256QAM	12	13	17.17	17.03	17.24	
5	256QAM	25	0	17.10	17.09	17.23	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	21.72	21.82	21.83	23
3	QPSK	1	8	21.96	21.89	21.98	
3	QPSK	1	14	21.89	21.85	21.85	
3	QPSK	8	0	20.97	20.89	21.03	22
3	QPSK	8	4	21.09	21.13	21.08	
3	QPSK	8	7	21.06	20.94	21.00	
3	QPSK	15	0	21.06	21.04	21.06	22
3	16QAM	1	0	21.15	21.27	21.12	
3	16QAM	1	8	21.31	21.18	21.39	
3	16QAM	1	14	21.07	21.34	21.22	21
3	16QAM	8	0	19.99	19.94	20.06	
3	16QAM	8	4	20.13	20.03	20.08	
3	16QAM	8	7	20.11	19.90	20.07	21
3	16QAM	15	0	20.13	19.87	20.05	
3	64QAM	1	0	19.99	20.09	20.00	
3	64QAM	1	8	20.23	20.06	20.35	20
3	64QAM	1	14	20.01	20.12	20.17	
3	64QAM	8	0	18.81	18.96	19.03	
3	64QAM	8	4	19.09	19.02	19.13	18
3	64QAM	8	7	19.03	18.90	18.96	
3	64QAM	15	0	18.96	18.84	19.07	
3	256QAM	1	0	17.16	17.23	17.04	18
3	256QAM	1	8	17.19	17.06	17.30	
3	256QAM	1	14	17.26	17.38	17.48	
3	256QAM	8	0	17.13	17.14	17.12	18
3	256QAM	8	4	17.07	17.08	17.21	
3	256QAM	8	7	17.09	17.02	17.19	
3	256QAM	15	0	17.26	17.06	17.22	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	21.72	21.70	21.74	23
1.4	QPSK	1	3	21.74	21.78	21.73	
1.4	QPSK	1	5	21.74	21.86	21.69	
1.4	QPSK	3	0	21.68	21.71	21.87	
1.4	QPSK	3	1	21.72	21.85	21.87	
1.4	QPSK	3	3	21.76	21.85	21.83	



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1.4	QPSK	6	0	20.84	21.09	21.01	22
1.4	16QAM	1	0	20.82	20.81	21.08	22
1.4	16QAM	1	3	21.05	20.79	20.94	
1.4	16QAM	1	5	21.06	20.75	20.91	
1.4	16QAM	3	0	20.96	20.82	20.80	
1.4	16QAM	3	1	20.99	20.80	20.85	
1.4	16QAM	3	3	20.66	21.06	21.06	
1.4	16QAM	6	0	19.85	19.74	19.79	21
1.4	64QAM	1	0	19.75	19.69	19.82	21
1.4	64QAM	1	3	19.73	20.09	19.90	
1.4	64QAM	1	5	19.95	19.94	19.85	
1.4	64QAM	3	0	20.02	19.95	19.69	
1.4	64QAM	3	1	19.82	19.72	19.87	
1.4	64QAM	3	3	19.86	19.78	19.84	
1.4	64QAM	6	0	18.88	18.74	18.84	20
1.4	256QAM	1	0	16.88	16.96	17.02	18
1.4	256QAM	1	3	17.04	17.09	16.81	
1.4	256QAM	1	5	16.82	16.80	16.81	
1.4	256QAM	3	0	16.97	17.01	17.08	
1.4	256QAM	3	1	16.70	17.02	16.96	
1.4	256QAM	3	3	16.67	16.80	16.90	
1.4	256QAM	6	0	16.72	17.05	16.95	18



<LTE Band 26 Main Ant State 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				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	19.98	20.04	20.03	21.5
15	QPSK	1	37	20.15	20.06	20.19	
15	QPSK	1	74	20.04	20.04	20.05	
15	QPSK	36	0	19.10	19.10	19.17	20.5
15	QPSK	36	20	19.22	19.19	19.26	
15	QPSK	36	39	19.21	19.14	19.18	
15	QPSK	75	0	19.19	19.10	19.25	20.5
15	16QAM	1	0	19.31	19.37	19.36	
15	16QAM	1	37	19.46	19.40	19.42	
15	16QAM	1	74	19.29	19.41	19.46	19.5
15	16QAM	36	0	18.10	18.12	18.20	
15	16QAM	36	20	18.23	18.12	18.27	
15	16QAM	36	39	18.22	18.17	18.21	19.5
15	16QAM	75	0	18.21	18.11	18.24	
15	64QAM	1	0	18.21	18.31	18.26	
15	64QAM	1	37	18.37	18.37	18.41	18.5
15	64QAM	1	74	18.28	18.46	18.30	
15	64QAM	36	0	17.11	17.13	17.19	
15	64QAM	36	20	17.24	17.12	17.28	16.5
15	64QAM	36	39	17.22	17.16	17.21	
15	64QAM	75	0	17.20	17.11	17.26	
15	256QAM	1	0	15.21	15.48	15.25	16.5
15	256QAM	1	37	15.42	15.29	15.43	
15	256QAM	1	74	15.30	15.36	15.35	
15	256QAM	36	0	15.14	15.15	15.30	16.5
15	256QAM	36	20	15.25	15.15	15.30	
15	256QAM	36	39	15.18	15.18	15.25	
15	256QAM	75	0	15.23	15.10	15.35	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	19.91	19.97	19.99	21.5
10	QPSK	1	25	20.09	19.96	20.16	
10	QPSK	1	49	19.99	20.04	20.02	
10	QPSK	25	0	19.06	19.08	19.17	20.5
10	QPSK	25	12	19.21	19.17	19.26	
10	QPSK	25	25	19.16	19.14	19.12	
10	QPSK	50	0	19.15	19.01	19.15	20.5
10	16QAM	1	0	19.26	19.36	19.32	
10	16QAM	1	25	19.38	19.35	19.36	
10	16QAM	1	49	19.24	19.31	19.41	19.5
10	16QAM	25	0	18.03	18.07	18.17	
10	16QAM	25	12	18.16	18.06	18.19	
10	16QAM	25	25	18.19	18.11	18.17	19.5
10	16QAM	50	0	18.12	18.01	18.20	
10	64QAM	1	0	18.14	18.30	18.18	
10	64QAM	1	25	18.30	18.34	18.31	18.5
10	64QAM	1	49	18.26	18.39	18.22	
10	64QAM	25	0	17.08	17.04	17.19	
10	64QAM	25	12	17.16	17.08	17.22	16.5
10	64QAM	25	25	17.15	17.08	17.16	
10	64QAM	50	0	17.20	17.09	17.16	
10	256QAM	1	0	15.12	15.45	15.18	16.5
10	256QAM	1	25	15.42	15.22	15.42	
10	256QAM	1	49	15.23	15.35	15.35	
10	256QAM	25	0	15.06	15.07	15.22	16.5
10	256QAM	25	12	15.18	15.10	15.22	
10	256QAM	25	25	15.12	15.16	15.23	
10	256QAM	50	0	15.16	15.01	15.32	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	



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5	QPSK	1	0	19.89	19.98	20.03	21.5
5	QPSK	1	12	20.10	20.05	20.14	
5	QPSK	1	24	19.96	20.07	19.99	
5	QPSK	12	0	19.07	19.03	19.16	20.5
5	QPSK	12	7	19.21	19.12	19.20	
5	QPSK	12	13	19.20	19.12	19.13	
5	QPSK	25	0	19.11	19.05	19.25	20.5
5	16QAM	1	0	19.23	19.28	19.28	
5	16QAM	1	12	19.42	19.33	19.33	
5	16QAM	1	24	19.23	19.40	19.40	19.5
5	16QAM	12	0	18.00	18.09	18.19	
5	16QAM	12	7	18.16	18.11	18.25	
5	16QAM	12	13	18.20	18.07	18.16	19.5
5	16QAM	25	0	18.21	18.04	18.18	
5	64QAM	1	0	18.17	18.21	18.20	
5	64QAM	1	12	18.29	18.27	18.36	18.5
5	64QAM	1	24	18.23	18.43	18.26	
5	64QAM	12	0	17.01	17.13	17.19	
5	64QAM	12	7	17.16	17.04	17.22	16.5
5	64QAM	12	13	17.12	17.11	17.12	
5	64QAM	25	0	17.13	17.08	17.24	
5	256QAM	1	0	15.16	15.38	15.20	16.5
5	256QAM	1	12	15.42	15.23	15.38	
5	256QAM	1	24	15.25	15.30	15.30	
5	256QAM	12	0	15.13	15.05	15.23	16.5
5	256QAM	12	7	15.22	15.07	15.30	
5	256QAM	12	13	15.13	15.13	15.21	
5	256QAM	25	0	15.14	15.06	15.25	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	19.98	20.04	19.98	21.5
3	QPSK	1	8	20.14	19.98	20.13	
3	QPSK	1	14	20.00	20.11	19.97	
3	QPSK	8	0	19.10	19.03	19.14	20.5
3	QPSK	8	4	19.22	19.13	19.17	
3	QPSK	8	7	19.17	19.07	19.16	
3	QPSK	15	0	19.15	19.10	19.21	20.5
3	16QAM	1	0	19.27	19.28	19.29	
3	16QAM	1	8	19.40	19.31	19.34	
3	16QAM	1	14	19.26	19.37	19.39	19.5
3	16QAM	8	0	18.05	18.03	18.20	
3	16QAM	8	4	18.17	18.05	18.20	
3	16QAM	8	7	18.17	18.14	18.13	19.5
3	16QAM	15	0	18.20	18.07	18.15	
3	64QAM	1	0	18.12	18.23	18.19	
3	64QAM	1	8	18.34	18.36	18.32	18.5
3	64QAM	1	14	18.26	18.37	18.23	
3	64QAM	8	0	17.04	17.04	17.12	
3	64QAM	8	4	17.22	17.11	17.20	16.5
3	64QAM	8	7	17.20	17.08	17.21	
3	64QAM	15	0	17.13	17.01	17.16	
3	256QAM	1	0	15.20	15.38	15.16	16.5
3	256QAM	1	8	15.35	15.19	15.41	
3	256QAM	1	14	15.24	15.27	15.25	
3	256QAM	8	0	15.06	15.12	15.24	16.5
3	256QAM	8	4	15.22	15.09	15.30	
3	256QAM	8	7	15.13	15.12	15.25	
3	256QAM	15	0	15.14	15.08	15.29	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	19.88	19.98	19.98	21.5
1.4	QPSK	1	3	20.05	19.96	20.15	
1.4	QPSK	1	5	20.01	20.13	19.97	
1.4	QPSK	3	0	19.89	19.96	20.01	
1.4	QPSK	3	1	20.13	20.06	20.10	
1.4	QPSK	3	3	20.02	20.11	20.02	



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1.4	QPSK	6	0	19.18	19.08	19.23	20.5
1.4	16QAM	1	0	19.23	19.30	19.26	20.5
1.4	16QAM	1	3	19.43	19.32	19.38	
1.4	16QAM	1	5	19.19	19.40	19.39	
1.4	16QAM	3	0	19.24	19.27	19.30	
1.4	16QAM	3	1	19.42	19.38	19.35	
1.4	16QAM	3	3	19.27	19.37	19.39	
1.4	16QAM	6	0	18.16	18.06	18.22	19.5
1.4	64QAM	1	0	18.16	18.27	18.23	19.5
1.4	64QAM	1	3	18.34	18.35	18.36	
1.4	64QAM	1	5	18.25	18.42	18.25	
1.4	64QAM	3	0	18.14	18.31	18.23	
1.4	64QAM	3	1	18.33	18.29	18.36	
1.4	64QAM	3	3	18.18	18.37	18.29	
1.4	64QAM	6	0	17.17	17.09	17.26	18.5
1.4	256QAM	1	0	15.15	15.45	15.22	16.5
1.4	256QAM	1	3	15.35	15.25	15.35	
1.4	256QAM	1	5	15.23	15.35	15.31	
1.4	256QAM	3	0	15.06	15.12	15.21	
1.4	256QAM	3	1	15.19	15.10	15.30	
1.4	256QAM	3	3	15.09	15.12	15.24	
1.4	256QAM	6	0	15.21	15.06	15.30	16.5



<LTE Band 30 Main Ant State 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			17.5
Frequency (MHz)				2310			
10	QPSK	1	0		16.16		17.5
10	QPSK	1	25		16.23		
10	QPSK	1	49		16.20		
10	QPSK	25	0		15.07		16.5
10	QPSK	25	12		15.14		
10	QPSK	25	25		15.05		
10	QPSK	50	0		15.03		16.5
10	16QAM	1	0		15.18		
10	16QAM	1	25		15.24		
10	16QAM	1	49		15.10		15.5
10	16QAM	25	0		14.07		
10	16QAM	25	12		14.12		
10	16QAM	25	25		14.07		15.5
10	16QAM	50	0		14.01		
10	64QAM	1	0		14.17		
10	64QAM	1	25		14.29		15.5
10	64QAM	1	49		14.12		
10	64QAM	25	0		13.08		
10	64QAM	25	12		13.11		14.5
10	64QAM	25	25		13.05		
10	64QAM	50	0		13.08		
10	256QAM	1	0		11.37		12.5
10	256QAM	1	25		11.44		
10	256QAM	1	49		11.30		
10	256QAM	25	0		11.24		12.5
10	256QAM	25	12		11.27		
10	256QAM	25	25		11.28		
10	256QAM	50	0		11.23		
Channel				27685	27710	27735	17.5
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	15.98	16.05	16.12	17.5
5	QPSK	1	12	16.17	16.20	16.12	
5	QPSK	1	24	16.06	16.08	15.92	
5	QPSK	12	0	15.04	15.07	15.16	16.5
5	QPSK	12	7	15.11	15.13	15.22	
5	QPSK	12	13	15.11	15.06	15.17	
5	QPSK	25	0	15.07	15.04	15.10	16.5
5	16QAM	1	0	15.18	15.33	15.16	
5	16QAM	1	12	15.23	15.27	15.34	
5	16QAM	1	24	15.23	15.14	15.05	15.5
5	16QAM	12	0	14.02	14.10	14.15	
5	16QAM	12	7	14.13	14.15	14.18	
5	16QAM	12	13	14.09	14.10	14.11	15.5
5	16QAM	25	0	14.11	14.04	14.08	
5	64QAM	1	0	14.19	14.22	14.39	
5	64QAM	1	12	14.33	14.29	14.23	15.5
5	64QAM	1	24	14.19	14.26	14.16	
5	64QAM	12	0	13.05	13.09	13.11	
5	64QAM	12	7	13.19	13.14	13.12	14.5
5	64QAM	12	13	13.14	13.10	13.08	
5	64QAM	25	0	13.09	13.03	13.04	
5	256QAM	1	0	11.19	11.26	11.24	12.5
5	256QAM	1	12	11.45	11.54	11.52	
5	256QAM	1	24	11.22	11.29	11.39	
5	256QAM	12	0	11.19	11.26	11.23	12.5
5	256QAM	12	7	11.30	11.32	11.24	
5	256QAM	12	13	11.22	11.27	11.30	
5	256QAM	25	0	11.27	11.16	11.16	



◀LTE Band 30 MIMO2 Ant State 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		18.60		19
10	QPSK	1	25		18.70		
10	QPSK	1	49		18.58		
10	QPSK	25	0		18.45		19
10	QPSK	25	12		18.49		
10	QPSK	25	25		18.45		
10	QPSK	50	0		18.46		19
10	16QAM	1	0		18.60		
10	16QAM	1	25		18.62		
10	16QAM	1	49		18.54		19
10	16QAM	25	0		18.45		
10	16QAM	25	12		18.42		
10	16QAM	25	25		18.45		19
10	16QAM	50	0		18.36		
10	64QAM	1	0		18.60		
10	64QAM	1	25		18.62		19
10	64QAM	1	49		18.44		
10	64QAM	25	0		18.40		
10	64QAM	25	12		18.38		19
10	64QAM	25	25		18.35		
10	64QAM	50	0		18.30		
10	256QAM	1	0		17.48		18
10	256QAM	1	25		17.40		
10	256QAM	1	49		17.39		
10	256QAM	25	0		17.33		18
10	256QAM	25	12		17.25		
10	256QAM	25	25		17.21		
10	256QAM	50	0		17.13		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	18.53	18.55	18.49	19
5	QPSK	1	12	18.66	18.68	18.70	
5	QPSK	1	24	18.45	18.49	18.38	
5	QPSK	12	0	18.37	18.39	18.34	19
5	QPSK	12	7	18.39	18.45	18.38	
5	QPSK	12	13	18.32	18.37	18.26	
5	QPSK	25	0	18.40	18.41	18.33	19
5	16QAM	1	0	18.55	18.59	18.55	
5	16QAM	1	12	18.69	18.62	18.67	
5	16QAM	1	24	18.46	18.49	18.46	19
5	16QAM	12	0	18.42	18.43	18.40	
5	16QAM	12	7	18.36	18.40	18.36	
5	16QAM	12	13	18.28	18.36	18.21	19
5	16QAM	25	0	18.31	18.34	18.28	
5	64QAM	1	0	18.45	18.50	18.42	
5	64QAM	1	12	18.58	18.67	18.57	19
5	64QAM	1	24	18.39	18.41	18.35	
5	64QAM	12	0	18.28	18.31	18.18	
5	64QAM	12	7	18.28	18.35	18.23	19
5	64QAM	12	13	18.33	18.34	18.29	
5	64QAM	25	0	18.24	18.24	18.16	
5	256QAM	1	0	17.40	17.41	17.37	18
5	256QAM	1	12	17.30	17.35	17.25	
5	256QAM	1	24	17.25	17.35	17.15	
5	256QAM	12	0	17.22	17.30	17.17	18
5	256QAM	12	7	17.10	17.16	17.10	
5	256QAM	12	13	17.13	17.21	17.13	
5	256QAM	25	0	17.04	17.12	17.03	



<LTE Band 30 Main Ant. State 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		16.58		17
10	QPSK	1	25		16.61		
10	QPSK	1	49		16.49		
10	QPSK	25	0		15.56		16
10	QPSK	25	12		15.61		
10	QPSK	25	25		15.47		
10	QPSK	50	0		15.57		
10	16QAM	1	0		15.95		16
10	16QAM	1	25		15.92		
10	16QAM	1	49		15.96		
10	16QAM	25	0		14.61		15
10	16QAM	25	12		14.59		
10	16QAM	25	25		14.53		
10	16QAM	50	0		14.50		
10	64QAM	1	0		14.75		15
10	64QAM	1	25		14.93		
10	64QAM	1	49		14.73		
10	64QAM	25	0		13.57		14
10	64QAM	25	12		13.59		
10	64QAM	25	25		13.51		
10	64QAM	50	0		13.53		
10	256QAM	1	0		11.75		12
10	256QAM	1	25		11.93		
10	256QAM	1	49		11.78		
10	256QAM	25	0		11.72		12
10	256QAM	25	12		11.76		
10	256QAM	25	25		11.82		
10	256QAM	50	0		11.74		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	16.50	16.56	16.55	17
5	QPSK	1	12	16.58	16.60	16.51	
5	QPSK	1	24	16.47	16.55	16.52	
5	QPSK	12	0	15.50	15.54	15.64	16
5	QPSK	12	7	15.62	15.64	15.67	
5	QPSK	12	13	15.53	15.52	15.54	
5	QPSK	25	0	15.57	15.58	15.57	
5	16QAM	1	0	15.90	15.95	15.99	16
5	16QAM	1	12	15.95	15.93	15.91	
5	16QAM	1	24	15.92	15.92	15.94	
5	16QAM	12	0	14.50	14.58	14.62	15
5	16QAM	12	7	14.68	14.64	14.68	
5	16QAM	12	13	14.62	14.61	14.61	
5	16QAM	25	0	14.55	14.55	14.64	
5	64QAM	1	0	14.71	14.88	14.96	15
5	64QAM	1	12	14.81	14.91	14.75	
5	64QAM	1	24	14.82	14.93	14.76	
5	64QAM	12	0	13.51	13.57	13.65	14
5	64QAM	12	7	13.62	13.60	13.67	
5	64QAM	12	13	13.61	13.59	13.56	
5	64QAM	25	0	13.59	13.55	13.57	
5	256QAM	1	0	11.72	11.65	11.67	12
5	256QAM	1	12	11.87	11.84	11.92	
5	256QAM	1	24	11.71	11.76	11.73	
5	256QAM	12	0	11.70	11.70	11.70	12
5	256QAM	12	7	11.70	11.73	11.75	
5	256QAM	12	13	11.82	11.79	11.81	
5	256QAM	25	0	11.71	11.64	11.69	



◀LTE Band 30 MIMO2 Ant State 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			15.5
Frequency (MHz)				2310			
10	QPSK	1	0		15.05		15.5
10	QPSK	1	25		15.23		
10	QPSK	1	49		15.02		
10	QPSK	25	0		14.90		15.5
10	QPSK	25	12		14.96		
10	QPSK	25	25		14.91		
10	QPSK	50	0		14.90		15.5
10	16QAM	1	0		15.01		
10	16QAM	1	25		15.17		
10	16QAM	1	49		14.92		15.5
10	16QAM	25	0		14.81		
10	16QAM	25	12		14.92		
10	16QAM	25	25		14.83		15.5
10	16QAM	50	0		14.86		
10	64QAM	1	0		15.01		
10	64QAM	1	25		15.19		15.5
10	64QAM	1	49		14.95		
10	64QAM	25	0		14.80		
10	64QAM	25	12		14.96		15.5
10	64QAM	25	25		14.90		
10	64QAM	50	0		14.84		
10	256QAM	1	0		14.15		14.5
10	256QAM	1	25		14.06		
10	256QAM	1	49		13.98		
10	256QAM	25	0		13.98		14.5
10	256QAM	25	12		13.88		
10	256QAM	25	25		13.88		
10	256QAM	50	0		13.85		
Channel				27685	27710	27735	15.5
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	14.99	14.96	14.89	15.5
5	QPSK	1	12	15.19	15.19	15.18	
5	QPSK	1	24	14.95	15.02	14.98	
5	QPSK	12	0	14.90	14.86	14.83	15.5
5	QPSK	12	7	14.95	14.89	14.89	
5	QPSK	12	13	14.81	14.85	14.79	
5	QPSK	25	0	14.83	14.87	14.81	15.5
5	16QAM	1	0	14.97	14.92	14.86	
5	16QAM	1	12	15.15	15.13	15.05	
5	16QAM	1	24	14.85	14.89	14.79	15.5
5	16QAM	12	0	14.81	14.79	14.70	
5	16QAM	12	7	14.88	14.82	14.77	
5	16QAM	12	13	14.80	14.83	14.76	15.5
5	16QAM	25	0	14.83	14.77	14.69	
5	64QAM	1	0	14.97	14.98	14.94	
5	64QAM	1	12	15.13	15.15	15.10	15.5
5	64QAM	1	24	14.87	14.88	14.81	
5	64QAM	12	0	14.74	14.74	14.71	
5	64QAM	12	7	14.96	14.92	14.92	15.5
5	64QAM	12	13	14.81	14.83	14.74	
5	64QAM	25	0	14.83	14.80	14.80	
5	256QAM	1	0	14.08	14.07	14.05	14.5
5	256QAM	1	12	14.03	14.05	14.00	
5	256QAM	1	24	13.92	13.92	13.82	
5	256QAM	12	0	13.90	13.98	13.94	14.5
5	256QAM	12	7	13.82	13.88	13.83	
5	256QAM	12	13	13.88	13.83	13.82	
5	256QAM	25	0	13.76	13.81	13.72	



<LTE Band 66 Main Ant State 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	15.55	15.47	15.38	16.5
20	QPSK	1	49	15.67	15.54	15.52	
20	QPSK	1	99	15.50	15.28	15.35	
20	QPSK	50	0	14.74	14.58	14.62	15.5
20	QPSK	50	24	14.72	14.55	14.55	
20	QPSK	50	50	14.62	14.47	14.57	
20	QPSK	100	0	14.68	14.52	14.58	15.5
20	16QAM	1	0	14.89	14.65	14.72	
20	16QAM	1	49	14.85	14.75	14.76	
20	16QAM	1	99	14.88	14.65	14.64	14.5
20	16QAM	50	0	13.76	13.56	13.50	
20	16QAM	50	24	13.77	13.52	13.57	
20	16QAM	50	50	13.62	13.53	13.52	14.5
20	16QAM	100	0	13.70	13.50	13.56	
20	64QAM	1	0	13.72	13.60	13.59	
20	64QAM	1	49	13.79	13.54	13.71	14.5
20	64QAM	1	99	13.65	13.62	13.64	
20	64QAM	50	0	12.74	12.58	12.49	
20	64QAM	50	24	12.75	12.50	12.54	13.5
20	64QAM	50	50	12.64	12.45	12.57	
20	64QAM	100	0	12.75	12.51	12.51	
20	256QAM	1	0	10.85	10.63	10.55	11.5
20	256QAM	1	49	10.81	10.49	10.68	
20	256QAM	1	99	10.55	10.51	10.68	
20	256QAM	50	0	10.65	10.55	10.51	11.5
20	256QAM	50	24	10.76	10.53	10.44	
20	256QAM	50	50	10.57	10.47	10.52	
20	256QAM	100	0	10.71	10.53	10.43	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	15.57	15.29	15.39	16.5
15	QPSK	1	37	15.55	15.37	15.41	
15	QPSK	1	74	15.54	15.21	15.34	
15	QPSK	36	0	14.74	14.55	14.48	15.5
15	QPSK	36	20	14.73	14.53	14.54	
15	QPSK	36	39	14.65	14.53	14.55	
15	QPSK	75	0	14.67	14.54	14.54	15.5
15	16QAM	1	0	14.99	14.56	14.71	
15	16QAM	1	37	14.89	14.61	14.67	
15	16QAM	1	74	14.72	14.57	14.64	14.5
15	16QAM	36	0	13.71	13.54	13.47	
15	16QAM	36	20	13.65	13.53	13.58	
15	16QAM	36	39	13.63	13.50	13.54	14.5
15	16QAM	75	0	13.63	13.45	13.59	
15	64QAM	1	0	13.75	13.64	13.55	
15	64QAM	1	37	13.80	13.59	13.65	14.5
15	64QAM	1	74	13.69	13.51	13.57	
15	64QAM	36	0	12.74	12.53	12.49	
15	64QAM	36	20	12.67	12.54	12.56	13.5
15	64QAM	36	39	12.64	12.48	12.57	
15	64QAM	75	0	12.63	12.51	12.57	
15	256QAM	1	0	10.82	10.59	10.53	11.5
15	256QAM	1	37	10.76	10.48	10.58	
15	256QAM	1	74	10.48	10.43	10.68	
15	256QAM	36	0	10.62	10.52	10.42	11.5
15	256QAM	36	20	10.68	10.45	10.35	
15	256QAM	36	39	10.57	10.42	10.49	
15	256QAM	75	0	10.63	10.50	10.43	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	



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10	QPSK	1	0	15.52	15.44	15.42	16.5
10	QPSK	1	25	15.55	15.46	15.54	
10	QPSK	1	49	15.54	15.42	15.40	
10	QPSK	25	0	14.89	14.64	14.60	15.5
10	QPSK	25	12	14.86	14.66	14.68	
10	QPSK	25	25	14.83	14.62	14.64	
10	QPSK	50	0	14.90	14.64	14.67	15.5
10	16QAM	1	0	15.01	14.83	14.73	
10	16QAM	1	25	15.01	14.73	14.85	
10	16QAM	1	49	14.93	14.76	14.79	14.5
10	16QAM	25	0	13.86	13.65	13.62	
10	16QAM	25	12	13.90	13.67	13.73	
10	16QAM	25	25	13.86	13.60	13.70	14.5
10	16QAM	50	0	13.83	13.62	13.66	
10	64QAM	1	0	13.82	13.73	13.64	
10	64QAM	1	25	13.89	13.67	13.73	14.5
10	64QAM	1	49	13.84	13.62	13.67	
10	64QAM	25	0	12.87	12.63	12.60	
10	64QAM	25	12	12.86	12.61	12.73	13.5
10	64QAM	25	25	12.85	12.63	12.64	
10	64QAM	50	0	12.87	12.60	12.64	
10	256QAM	1	0	10.77	10.53	10.52	11.5
10	256QAM	1	25	10.71	10.48	10.67	
10	256QAM	1	49	10.45	10.47	10.62	
10	256QAM	25	0	10.57	10.46	10.47	11.5
10	256QAM	25	12	10.70	10.48	10.37	
10	256QAM	25	25	10.57	10.46	10.45	
10	256QAM	50	0	10.63	10.46	10.36	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	15.57	15.49	15.44	16.5
5	QPSK	1	12	15.60	15.41	15.51	
5	QPSK	1	24	15.58	15.45	15.48	
5	QPSK	12	0	14.90	14.61	14.58	15.5
5	QPSK	12	7	14.89	14.62	14.70	
5	QPSK	12	13	14.77	14.57	14.64	
5	QPSK	25	0	14.74	14.60	14.54	15.5
5	16QAM	1	0	15.03	14.92	14.82	
5	16QAM	1	12	15.01	14.83	14.94	
5	16QAM	1	24	15.00	14.82	14.79	14.5
5	16QAM	12	0	13.89	13.68	13.61	
5	16QAM	12	7	13.92	13.63	13.71	
5	16QAM	12	13	13.80	13.64	13.65	14.5
5	16QAM	25	0	13.79	13.59	13.56	
5	64QAM	1	0	13.86	13.65	13.63	
5	64QAM	1	12	13.95	13.71	13.77	14.5
5	64QAM	1	24	13.87	13.55	13.71	
5	64QAM	12	0	12.89	12.62	12.55	
5	64QAM	12	7	12.87	12.65	12.73	13.5
5	64QAM	12	13	12.81	12.59	12.67	
5	64QAM	25	0	12.80	12.60	12.57	
5	256QAM	1	0	10.76	10.54	10.53	11.5
5	256QAM	1	12	10.76	10.44	10.63	
5	256QAM	1	24	10.46	10.43	10.63	
5	256QAM	12	0	10.60	10.51	10.46	11.5
5	256QAM	12	7	10.75	10.43	10.43	
5	256QAM	12	13	10.49	10.46	10.43	
5	256QAM	25	0	10.71	10.50	10.42	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	15.55	15.42	15.38	16.5
3	QPSK	1	8	15.63	15.53	15.51	
3	QPSK	1	14	15.62	15.31	15.43	
3	QPSK	8	0	14.87	14.58	14.56	15.5
3	QPSK	8	4	14.88	14.60	14.63	
3	QPSK	8	7	14.84	14.55	14.65	



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3	QPSK	15	0	14.83	14.58	14.57	
3	16QAM	1	0	15.00	14.79	14.69	15.5
3	16QAM	1	8	15.17	14.81	14.88	
3	16QAM	1	14	14.93	14.67	14.84	14.5
3	16QAM	8	0	13.91	13.65	13.61	
3	16QAM	8	4	13.97	13.65	13.67	
3	16QAM	8	7	13.91	13.62	13.72	
3	16QAM	15	0	13.89	13.61	13.60	14.5
3	64QAM	1	0	14.00	13.59	13.75	
3	64QAM	1	8	13.93	13.68	13.69	
3	64QAM	1	14	13.82	13.60	13.65	13.5
3	64QAM	8	0	12.88	12.59	12.62	
3	64QAM	8	4	12.90	12.65	12.64	
3	64QAM	8	7	12.88	12.60	12.67	
3	64QAM	15	0	12.83	12.64	12.60	11.5
3	256QAM	1	0	10.75	10.61	10.47	
3	256QAM	1	8	10.74	10.45	10.63	
3	256QAM	1	14	10.55	10.47	10.65	11.5
3	256QAM	8	0	10.64	10.55	10.51	
3	256QAM	8	4	10.66	10.46	10.37	
3	256QAM	8	7	10.48	10.37	10.47	
3	256QAM	15	0	10.62	10.47	10.33	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	15.61	15.41	15.44	16.5
1.4	QPSK	1	3	15.56	15.47	15.48	
1.4	QPSK	1	5	15.60	15.41	15.43	
1.4	QPSK	3	0	15.57	15.50	15.45	
1.4	QPSK	3	1	15.60	15.48	15.49	
1.4	QPSK	3	3	15.57	15.45	15.47	
1.4	QPSK	6	0	14.82	14.55	14.63	15.5
1.4	16QAM	1	0	15.01	14.77	14.73	15.5
1.4	16QAM	1	3	15.18	14.82	14.79	
1.4	16QAM	1	5	15.02	14.75	14.74	
1.4	16QAM	3	0	14.89	14.54	14.64	
1.4	16QAM	3	1	14.87	14.54	14.61	
1.4	16QAM	3	3	14.82	14.63	14.56	
1.4	16QAM	6	0	13.92	13.66	13.63	14.5
1.4	64QAM	1	0	13.94	13.66	13.53	14.5
1.4	64QAM	1	3	13.95	13.66	13.71	
1.4	64QAM	1	5	13.82	13.60	13.51	
1.4	64QAM	3	0	13.82	13.54	13.57	
1.4	64QAM	3	1	13.80	13.52	13.66	
1.4	64QAM	3	3	13.86	13.55	13.52	
1.4	64QAM	6	0	12.80	12.57	12.71	13.5
1.4	256QAM	1	0	10.78	10.54	10.55	11.5
1.4	256QAM	1	3	10.80	10.43	10.60	
1.4	256QAM	1	5	10.50	10.51	10.67	
1.4	256QAM	3	0	10.61	10.55	10.41	
1.4	256QAM	3	1	10.76	10.50	10.36	
1.4	256QAM	3	3	10.56	10.44	10.42	
1.4	256QAM	6	0	10.63	10.44	10.39	11.5



◀LTE Band 66 MIMO2 Ant State 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	18.26	17.95	18.01	18.5
20	QPSK	1	49	18.16	17.90	17.92	
20	QPSK	1	99	18.13	17.84	17.89	
20	QPSK	50	0	18.17	18.10	18.03	18.5
20	QPSK	50	24	18.12	18.06	17.88	
20	QPSK	50	50	18.08	18.09	17.86	
20	QPSK	100	0	18.14	18.12	18.01	18.5
20	16QAM	1	0	18.23	17.94	18.01	
20	16QAM	1	49	18.15	17.86	17.88	
20	16QAM	1	99	18.05	17.74	17.86	18.5
20	16QAM	50	0	18.13	18.10	18.02	
20	16QAM	50	24	18.06	18.02	17.88	
20	16QAM	50	50	17.98	18.07	17.86	18.5
20	16QAM	100	0	18.08	18.13	18.01	
20	64QAM	1	0	18.14	17.84	17.97	
20	64QAM	1	49	18.13	17.81	17.88	18.5
20	64QAM	1	99	18.05	17.67	17.85	
20	64QAM	50	0	18.10	18.06	18.01	
20	64QAM	50	24	18.04	17.92	17.84	18.5
20	64QAM	50	50	17.97	17.99	17.81	
20	64QAM	100	0	18.00	18.03	17.92	
20	256QAM	1	0	17.17	16.94	17.07	17.5
20	256QAM	1	49	17.09	16.91	17.05	
20	256QAM	1	99	17.00	16.90	16.97	
20	256QAM	50	0	17.00	16.85	16.90	17.5
20	256QAM	50	24	16.99	16.85	16.83	
20	256QAM	50	50	16.97	16.78	16.78	
20	256QAM	100	0	16.92	16.76	16.75	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.20	17.85	17.91	18.5
15	QPSK	1	37	18.12	17.82	17.83	
15	QPSK	1	74	18.05	17.82	17.83	
15	QPSK	36	0	18.17	18.00	18.02	18.5
15	QPSK	36	20	18.02	18.06	17.80	
15	QPSK	36	39	18.07	18.02	17.85	
15	QPSK	75	0	18.06	18.11	17.99	18.5
15	16QAM	1	0	18.22	17.92	17.93	
15	16QAM	1	37	18.08	17.86	17.87	
15	16QAM	1	74	18.02	17.66	17.79	18.5
15	16QAM	36	0	18.10	18.10	18.01	
15	16QAM	36	20	18.01	17.95	17.87	
15	16QAM	36	39	17.92	18.05	17.78	18.5
15	16QAM	75	0	18.08	18.11	17.94	
15	64QAM	1	0	18.06	17.81	17.95	
15	64QAM	1	37	18.09	17.71	17.84	18.5
15	64QAM	1	74	17.96	17.62	17.76	
15	64QAM	36	0	18.10	18.01	17.95	
15	64QAM	36	20	17.97	17.88	17.79	18.5
15	64QAM	36	39	17.90	17.89	17.74	
15	64QAM	75	0	17.99	18.03	17.91	
15	256QAM	1	0	17.13	16.86	17.06	17.5
15	256QAM	1	37	17.01	16.87	16.97	
15	256QAM	1	74	16.93	16.81	16.90	
15	256QAM	36	0	16.92	16.83	16.83	17.5
15	256QAM	36	20	16.94	16.76	16.81	
15	256QAM	36	39	16.88	16.77	16.68	
15	256QAM	75	0	16.83	16.70	16.65	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	



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10	QPSK	1	0	18.13	17.77	17.84	18.5
10	QPSK	1	25	18.10	17.77	17.82	
10	QPSK	1	49	17.98	17.81	17.75	
10	QPSK	25	0	18.09	17.91	17.98	18.5
10	QPSK	25	12	18.02	18.03	17.72	
10	QPSK	25	25	18.05	17.93	17.84	
10	QPSK	50	0	17.98	18.01	17.98	18.5
10	16QAM	1	0	18.18	17.90	17.84	
10	16QAM	1	25	18.06	17.80	17.82	
10	16QAM	1	49	18.01	17.66	17.70	18.5
10	16QAM	25	0	18.10	18.07	18.00	
10	16QAM	25	12	17.94	17.88	17.78	
10	16QAM	25	25	17.90	17.95	17.72	18.5
10	16QAM	50	0	18.02	18.04	17.90	
10	64QAM	1	0	17.99	17.81	17.87	
10	64QAM	1	25	18.05	17.65	17.77	18.5
10	64QAM	1	49	17.89	17.52	17.75	
10	64QAM	25	0	18.08	17.91	17.86	
10	64QAM	25	12	17.88	17.82	17.70	18.5
10	64QAM	25	25	17.85	17.86	17.70	
10	64QAM	50	0	17.98	17.99	17.91	
10	256QAM	1	0	17.13	16.81	16.98	17.5
10	256QAM	1	25	16.97	16.83	16.89	
10	256QAM	1	49	16.83	16.73	16.80	
10	256QAM	25	0	16.90	16.81	16.81	17.5
10	256QAM	25	12	16.94	16.76	16.73	
10	256QAM	25	25	16.88	16.67	16.63	
10	256QAM	50	0	16.83	16.60	16.65	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	18.06	17.69	17.75	18.5
5	QPSK	1	12	18.05	17.75	17.79	
5	QPSK	1	24	17.90	17.81	17.75	
5	QPSK	12	0	18.06	17.83	17.96	18.5
5	QPSK	12	7	17.92	17.94	17.71	
5	QPSK	12	13	17.97	17.84	17.77	
5	QPSK	25	0	17.97	17.99	17.92	18.5
5	16QAM	1	0	18.10	17.89	17.82	
5	16QAM	1	12	17.96	17.71	17.81	
5	16QAM	1	24	17.94	17.58	17.67	18.5
5	16QAM	12	0	18.01	18.05	17.90	
5	16QAM	12	7	17.92	17.84	17.71	
5	16QAM	12	13	17.80	17.88	17.70	18.5
5	16QAM	25	0	17.94	17.94	17.80	
5	64QAM	1	0	17.96	17.72	17.87	
5	64QAM	1	12	17.98	17.65	17.77	18.5
5	64QAM	1	24	17.79	17.46	17.71	
5	64QAM	12	0	18.04	17.82	17.76	
5	64QAM	12	7	17.84	17.73	17.64	18.5
5	64QAM	12	13	17.77	17.77	17.66	
5	64QAM	25	0	17.96	17.89	17.90	
5	256QAM	1	0	17.07	16.75	16.88	17.5
5	256QAM	1	12	16.90	16.81	16.85	
5	256QAM	1	24	16.79	16.72	16.73	
5	256QAM	12	0	16.88	16.77	16.73	17.5
5	256QAM	12	7	16.91	16.66	16.71	
5	256QAM	12	13	16.81	16.60	16.60	
5	256QAM	25	0	16.75	16.57	16.62	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	18.00	17.67	17.73	18.5
3	QPSK	1	8	18.01	17.71	17.71	
3	QPSK	1	14	17.85	17.80	17.68	
3	QPSK	8	0	17.99	17.76	17.91	18.5
3	QPSK	8	4	17.86	17.89	17.65	
3	QPSK	8	7	17.95	17.74	17.70	



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3	QPSK	15	0	17.89	17.92	17.91	
3	16QAM	1	0	18.00	17.89	17.77	18.5
3	16QAM	1	8	17.95	17.64	17.74	
3	16QAM	1	14	17.91	17.52	17.59	
3	16QAM	8	0	17.98	18.03	17.86	18.5
3	16QAM	8	4	17.91	17.77	17.70	
3	16QAM	8	7	17.77	17.83	17.69	
3	16QAM	15	0	17.93	17.88	17.74	18.5
3	64QAM	1	0	17.94	17.63	17.80	
3	64QAM	1	8	17.88	17.64	17.75	
3	64QAM	1	14	17.69	17.39	17.67	18.5
3	64QAM	8	0	18.04	17.78	17.71	
3	64QAM	8	4	17.77	17.69	17.58	
3	64QAM	8	7	17.71	17.70	17.60	18.5
3	64QAM	15	0	17.86	17.82	17.82	
3	256QAM	1	0	16.97	16.67	16.87	
3	256QAM	1	8	16.83	16.72	16.76	17.5
3	256QAM	1	14	16.77	16.65	16.68	
3	256QAM	8	0	16.83	16.68	16.66	
3	256QAM	8	4	16.88	16.59	16.66	17.5
3	256QAM	8	7	16.75	16.56	16.58	
3	256QAM	15	0	16.68	16.49	16.60	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.98	17.64	17.67	18.5
1.4	QPSK	1	3	17.93	17.67	17.65	
1.4	QPSK	1	5	17.81	17.73	17.61	
1.4	QPSK	3	0	17.97	17.67	17.87	
1.4	QPSK	3	1	17.78	17.80	17.62	
1.4	QPSK	3	3	17.89	17.65	17.67	
1.4	QPSK	6	0	17.83	17.86	17.81	18.5
1.4	16QAM	1	0	17.97	17.86	17.69	18.5
1.4	16QAM	1	3	17.85	17.58	17.73	
1.4	16QAM	1	5	17.84	17.52	17.53	
1.4	16QAM	3	0	17.88	17.97	17.84	
1.4	16QAM	3	1	17.82	17.69	17.60	
1.4	16QAM	3	3	17.70	17.74	17.62	
1.4	16QAM	6	0	17.90	17.83	17.71	18.5
1.4	64QAM	1	0	17.89	17.53	17.78	18.5
1.4	64QAM	1	3	17.79	17.58	17.66	
1.4	64QAM	1	5	17.69	17.39	17.58	
1.4	64QAM	3	0	17.95	17.69	17.69	
1.4	64QAM	3	1	17.67	17.60	17.50	
1.4	64QAM	3	3	17.71	17.69	17.50	
1.4	64QAM	6	0	17.79	17.72	17.80	18.5
1.4	256QAM	1	0	16.89	16.66	16.82	17.5
1.4	256QAM	1	3	16.76	16.69	16.67	
1.4	256QAM	1	5	16.74	16.58	16.66	
1.4	256QAM	3	0	16.82	16.59	16.65	
1.4	256QAM	3	1	16.84	16.58	16.62	
1.4	256QAM	3	3	16.72	16.49	16.56	
1.4	256QAM	6	0	16.58	16.41	16.57	17.5



<LTE Band 66 Main Ant State 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				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	15.55	15.47	15.38	16.5
20	QPSK	1	49	15.67	15.54	15.52	
20	QPSK	1	99	15.50	15.28	15.35	
20	QPSK	50	0	14.74	14.58	14.62	15.5
20	QPSK	50	24	14.72	14.55	14.55	
20	QPSK	50	50	14.62	14.47	14.57	
20	QPSK	100	0	14.68	14.52	14.58	15.5
20	16QAM	1	0	14.89	14.65	14.72	
20	16QAM	1	49	14.85	14.75	14.76	
20	16QAM	1	99	14.88	14.65	14.64	14.5
20	16QAM	50	0	13.76	13.56	13.50	
20	16QAM	50	24	13.77	13.52	13.57	
20	16QAM	50	50	13.62	13.53	13.52	14.5
20	16QAM	100	0	13.70	13.50	13.56	
20	64QAM	1	0	13.72	13.60	13.59	
20	64QAM	1	49	13.79	13.54	13.71	14.5
20	64QAM	1	99	13.65	13.62	13.64	
20	64QAM	50	0	12.74	12.58	12.49	
20	64QAM	50	24	12.75	12.50	12.54	13.5
20	64QAM	50	50	12.64	12.45	12.57	
20	64QAM	100	0	12.75	12.51	12.51	
20	256QAM	1	0	10.85	10.63	10.55	11.5
20	256QAM	1	49	10.81	10.49	10.68	
20	256QAM	1	99	10.55	10.51	10.68	
20	256QAM	50	0	10.65	10.55	10.51	11.5
20	256QAM	50	24	10.76	10.53	10.44	
20	256QAM	50	50	10.57	10.47	10.52	
20	256QAM	100	0	10.71	10.53	10.43	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	15.57	15.29	15.39	16.5
15	QPSK	1	37	15.55	15.37	15.41	
15	QPSK	1	74	15.54	15.21	15.34	
15	QPSK	36	0	14.74	14.55	14.48	15.5
15	QPSK	36	20	14.73	14.53	14.54	
15	QPSK	36	39	14.65	14.53	14.55	
15	QPSK	75	0	14.67	14.54	14.54	15.5
15	16QAM	1	0	14.99	14.56	14.71	
15	16QAM	1	37	14.89	14.61	14.67	
15	16QAM	1	74	14.72	14.57	14.64	14.5
15	16QAM	36	0	13.71	13.54	13.47	
15	16QAM	36	20	13.65	13.53	13.58	
15	16QAM	36	39	13.63	13.50	13.54	14.5
15	16QAM	75	0	13.63	13.45	13.59	
15	64QAM	1	0	13.75	13.64	13.55	
15	64QAM	1	37	13.80	13.59	13.65	14.5
15	64QAM	1	74	13.69	13.51	13.57	
15	64QAM	36	0	12.74	12.53	12.49	
15	64QAM	36	20	12.67	12.54	12.56	13.5
15	64QAM	36	39	12.64	12.48	12.57	
15	64QAM	75	0	12.63	12.51	12.57	
15	256QAM	1	0	10.82	10.59	10.53	11.5
15	256QAM	1	37	10.76	10.48	10.58	
15	256QAM	1	74	10.48	10.43	10.68	
15	256QAM	36	0	10.62	10.52	10.42	11.5
15	256QAM	36	20	10.68	10.45	10.35	
15	256QAM	36	39	10.57	10.42	10.49	
15	256QAM	75	0	10.63	10.50	10.43	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	



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10	QPSK	1	0	15.52	15.44	15.42	16.5
10	QPSK	1	25	15.55	15.46	15.54	
10	QPSK	1	49	15.54	15.42	15.40	
10	QPSK	25	0	14.89	14.64	14.60	15.5
10	QPSK	25	12	14.86	14.66	14.68	
10	QPSK	25	25	14.83	14.62	14.64	
10	QPSK	50	0	14.90	14.64	14.67	15.5
10	16QAM	1	0	15.01	14.83	14.73	
10	16QAM	1	25	15.01	14.73	14.85	
10	16QAM	1	49	14.93	14.76	14.79	14.5
10	16QAM	25	0	13.86	13.65	13.62	
10	16QAM	25	12	13.90	13.67	13.73	
10	16QAM	25	25	13.86	13.60	13.70	14.5
10	16QAM	50	0	13.83	13.62	13.66	
10	64QAM	1	0	13.82	13.73	13.64	
10	64QAM	1	25	13.89	13.67	13.73	14.5
10	64QAM	1	49	13.84	13.62	13.67	
10	64QAM	25	0	12.87	12.63	12.60	
10	64QAM	25	12	12.86	12.61	12.73	13.5
10	64QAM	25	25	12.85	12.63	12.64	
10	64QAM	50	0	12.87	12.60	12.64	
10	256QAM	1	0	10.77	10.53	10.52	11.5
10	256QAM	1	25	10.71	10.48	10.67	
10	256QAM	1	49	10.45	10.47	10.62	
10	256QAM	25	0	10.57	10.46	10.47	11.5
10	256QAM	25	12	10.70	10.48	10.37	
10	256QAM	25	25	10.57	10.46	10.45	
10	256QAM	50	0	10.63	10.46	10.36	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	15.57	15.49	15.44	16.5
5	QPSK	1	12	15.60	15.41	15.51	
5	QPSK	1	24	15.58	15.45	15.48	
5	QPSK	12	0	14.90	14.61	14.58	15.5
5	QPSK	12	7	14.89	14.62	14.70	
5	QPSK	12	13	14.77	14.57	14.64	
5	QPSK	25	0	14.74	14.60	14.54	15.5
5	16QAM	1	0	15.03	14.92	14.82	
5	16QAM	1	12	15.01	14.83	14.94	
5	16QAM	1	24	15.00	14.82	14.79	14.5
5	16QAM	12	0	13.89	13.68	13.61	
5	16QAM	12	7	13.92	13.63	13.71	
5	16QAM	12	13	13.80	13.64	13.65	14.5
5	16QAM	25	0	13.79	13.59	13.56	
5	64QAM	1	0	13.86	13.65	13.63	
5	64QAM	1	12	13.95	13.71	13.77	14.5
5	64QAM	1	24	13.87	13.55	13.71	
5	64QAM	12	0	12.89	12.62	12.55	
5	64QAM	12	7	12.87	12.65	12.73	13.5
5	64QAM	12	13	12.81	12.59	12.67	
5	64QAM	25	0	12.80	12.60	12.57	
5	256QAM	1	0	10.76	10.54	10.53	11.5
5	256QAM	1	12	10.76	10.44	10.63	
5	256QAM	1	24	10.46	10.43	10.63	
5	256QAM	12	0	10.60	10.51	10.46	11.5
5	256QAM	12	7	10.75	10.43	10.43	
5	256QAM	12	13	10.49	10.46	10.43	
5	256QAM	25	0	10.71	10.50	10.42	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	15.55	15.42	15.38	16.5
3	QPSK	1	8	15.63	15.53	15.51	
3	QPSK	1	14	15.62	15.31	15.43	
3	QPSK	8	0	14.87	14.58	14.56	15.5
3	QPSK	8	4	14.88	14.60	14.63	
3	QPSK	8	7	14.84	14.55	14.65	



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3	QPSK	15	0	14.83	14.58	14.57	
3	16QAM	1	0	15.00	14.79	14.69	15.5
3	16QAM	1	8	15.17	14.81	14.88	
3	16QAM	1	14	14.93	14.67	14.84	14.5
3	16QAM	8	0	13.91	13.65	13.61	
3	16QAM	8	4	13.97	13.65	13.67	
3	16QAM	8	7	13.91	13.62	13.72	
3	16QAM	15	0	13.89	13.61	13.60	14.5
3	64QAM	1	0	14.00	13.59	13.75	
3	64QAM	1	8	13.93	13.68	13.69	
3	64QAM	1	14	13.82	13.60	13.65	13.5
3	64QAM	8	0	12.88	12.59	12.62	
3	64QAM	8	4	12.90	12.65	12.64	
3	64QAM	8	7	12.88	12.60	12.67	
3	64QAM	15	0	12.83	12.64	12.60	11.5
3	256QAM	1	0	10.75	10.61	10.47	
3	256QAM	1	8	10.74	10.45	10.63	
3	256QAM	1	14	10.55	10.47	10.65	11.5
3	256QAM	8	0	10.64	10.55	10.51	
3	256QAM	8	4	10.66	10.46	10.37	
3	256QAM	8	7	10.48	10.37	10.47	
3	256QAM	15	0	10.62	10.47	10.33	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	15.61	15.41	15.44	16.5
1.4	QPSK	1	3	15.56	15.47	15.48	
1.4	QPSK	1	5	15.60	15.41	15.43	
1.4	QPSK	3	0	15.57	15.50	15.45	
1.4	QPSK	3	1	15.60	15.48	15.49	
1.4	QPSK	3	3	15.57	15.45	15.47	
1.4	QPSK	6	0	14.82	14.55	14.63	15.5
1.4	16QAM	1	0	15.01	14.77	14.73	15.5
1.4	16QAM	1	3	15.18	14.82	14.79	
1.4	16QAM	1	5	15.02	14.75	14.74	
1.4	16QAM	3	0	14.89	14.54	14.64	
1.4	16QAM	3	1	14.87	14.54	14.61	
1.4	16QAM	3	3	14.82	14.63	14.56	
1.4	16QAM	6	0	13.92	13.66	13.63	14.5
1.4	64QAM	1	0	13.94	13.66	13.53	14.5
1.4	64QAM	1	3	13.95	13.66	13.71	
1.4	64QAM	1	5	13.82	13.60	13.51	
1.4	64QAM	3	0	13.82	13.54	13.57	
1.4	64QAM	3	1	13.80	13.52	13.66	
1.4	64QAM	3	3	13.86	13.55	13.52	
1.4	64QAM	6	0	12.80	12.57	12.71	13.5
1.4	256QAM	1	0	10.78	10.54	10.55	11.5
1.4	256QAM	1	3	10.80	10.43	10.60	
1.4	256QAM	1	5	10.50	10.51	10.67	
1.4	256QAM	3	0	10.61	10.55	10.41	
1.4	256QAM	3	1	10.76	10.50	10.36	
1.4	256QAM	3	3	10.56	10.44	10.42	
1.4	256QAM	6	0	10.63	10.44	10.39	11.5



◀LTE Band 66 MIMO2 Ant State 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				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	15.40	15.15	15.22	15.5
20	QPSK	1	49	15.32	15.12	15.14	
20	QPSK	1	99	15.24	15.00	15.06	
20	QPSK	50	0	15.37	15.36	15.25	15.5
20	QPSK	50	24	15.29	15.24	15.11	
20	QPSK	50	50	15.20	15.31	14.99	
20	QPSK	100	0	15.35	15.30	15.18	15.5
20	16QAM	1	0	15.35	15.13	15.13	
20	16QAM	1	49	15.23	15.12	15.11	
20	16QAM	1	99	15.16	14.93	15.03	15.5
20	16QAM	50	0	15.31	15.36	15.22	
20	16QAM	50	24	15.21	15.24	15.04	
20	16QAM	50	50	15.16	15.24	14.89	15.5
20	16QAM	100	0	15.34	15.22	15.15	
20	64QAM	1	0	15.26	15.10	15.09	
20	64QAM	1	49	15.19	15.11	15.09	15.5
20	64QAM	1	99	15.09	14.85	14.98	
20	64QAM	50	0	15.26	15.35	15.20	
20	64QAM	50	24	15.21	15.22	14.96	15.5
20	64QAM	50	50	15.16	15.21	14.83	
20	64QAM	100	0	15.34	15.17	15.05	
20	256QAM	1	0	15.37	15.15	15.28	15.5
20	256QAM	1	49	15.34	15.13	15.18	
20	256QAM	1	99	15.26	15.06	15.14	
20	256QAM	50	0	15.20	14.98	15.04	15.5
20	256QAM	50	24	15.14	14.92	15.04	
20	256QAM	50	50	15.13	14.83	15.04	
20	256QAM	100	0	15.12	14.74	15.03	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	15.36	15.08	15.19	15.5
15	QPSK	1	37	15.23	15.11	15.10	
15	QPSK	1	74	15.14	14.98	15.06	
15	QPSK	36	0	15.35	15.30	15.21	15.5
15	QPSK	36	20	15.20	15.19	15.08	
15	QPSK	36	39	15.11	15.31	14.93	
15	QPSK	75	0	15.27	15.26	15.18	15.5
15	16QAM	1	0	15.34	15.04	15.10	
15	16QAM	1	37	15.19	15.07	15.09	
15	16QAM	1	74	15.11	14.86	15.02	15.5
15	16QAM	36	0	15.30	15.33	15.12	
15	16QAM	36	20	15.13	15.16	15.02	
15	16QAM	36	39	15.09	15.19	14.88	15.5
15	16QAM	75	0	15.26	15.19	15.09	
15	64QAM	1	0	15.21	15.08	15.04	
15	64QAM	1	37	15.15	15.06	15.05	15.5
15	64QAM	1	74	15.01	14.82	14.89	
15	64QAM	36	0	15.21	15.35	15.19	
15	64QAM	36	20	15.15	15.21	14.93	15.5
15	64QAM	36	39	15.06	15.18	14.75	
15	64QAM	75	0	15.30	15.12	15.02	
15	256QAM	1	0	15.37	15.05	15.23	15.5
15	256QAM	1	37	15.33	15.04	15.08	
15	256QAM	1	74	15.19	14.98	15.04	
15	256QAM	36	0	15.11	14.89	14.96	15.5
15	256QAM	36	20	15.10	14.92	15.04	
15	256QAM	36	39	15.08	14.81	15.00	
15	256QAM	75	0	15.12	14.64	14.95	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	



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10	QPSK	1	0	15.34	15.03	15.10	15.5
10	QPSK	1	25	15.21	15.03	15.01	
10	QPSK	1	49	15.10	14.93	15.01	
10	QPSK	25	0	15.29	15.23	15.18	15.5
10	QPSK	25	12	15.18	15.13	15.03	
10	QPSK	25	25	15.03	15.24	14.92	
10	QPSK	50	0	15.20	15.16	15.11	15.5
10	16QAM	1	0	15.34	14.97	15.01	
10	16QAM	1	25	15.16	15.00	15.07	
10	16QAM	1	49	15.05	14.80	14.96	15.5
10	16QAM	25	0	15.26	15.23	15.04	
10	16QAM	25	12	15.08	15.06	14.95	
10	16QAM	25	25	15.05	15.10	14.87	15.5
10	16QAM	50	0	15.23	15.12	15.06	
10	64QAM	1	0	15.15	15.03	14.96	
10	64QAM	1	25	15.14	15.00	15.04	15.5
10	64QAM	1	49	14.95	14.81	14.79	
10	64QAM	25	0	15.11	15.31	15.17	
10	64QAM	25	12	15.07	15.11	14.88	15.5
10	64QAM	25	25	15.00	15.11	14.74	
10	64QAM	50	0	15.21	15.12	14.97	
10	256QAM	1	0	15.34	15.01	15.16	15.5
10	256QAM	1	25	15.27	14.96	15.00	
10	256QAM	1	49	15.09	14.94	15.01	
10	256QAM	25	0	15.04	14.81	14.93	15.5
10	256QAM	25	12	15.06	14.85	14.97	
10	256QAM	25	25	15.00	14.72	14.91	
10	256QAM	50	0	15.08	14.60	14.94	
Channel				131997	132322	132647	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	QPSK	1	0	15.29	14.98	15.02	15.5
5	QPSK	1	12	15.16	14.98	14.98	
5	QPSK	1	24	15.01	14.92	14.95	
5	QPSK	12	0	15.24	15.17	15.17	15.5
5	QPSK	12	7	15.12	15.09	14.93	
5	QPSK	12	13	14.95	15.17	14.88	
5	QPSK	25	0	15.17	15.09	15.11	15.5
5	16QAM	1	0	15.28	14.94	14.99	
5	16QAM	1	12	15.06	14.97	14.98	
5	16QAM	1	24	14.95	14.72	14.86	15.5
5	16QAM	12	0	15.25	15.18	15.00	
5	16QAM	12	7	15.05	15.00	14.95	
5	16QAM	12	13	14.98	15.08	14.79	15.5
5	16QAM	25	0	15.15	15.07	15.01	
5	64QAM	1	0	15.12	14.94	14.88	
5	64QAM	1	12	15.09	14.98	14.98	15.5
5	64QAM	1	24	14.92	14.74	14.75	
5	64QAM	12	0	15.03	15.23	15.11	
5	64QAM	12	7	15.00	15.09	14.86	15.5
5	64QAM	12	13	14.94	15.08	14.64	
5	64QAM	25	0	15.20	15.05	14.88	
5	256QAM	1	0	15.27	15.01	15.09	15.5
5	256QAM	1	12	15.18	14.89	14.90	
5	256QAM	1	24	15.05	14.92	14.97	
5	256QAM	12	0	14.95	14.73	14.93	15.5
5	256QAM	12	7	15.06	14.75	14.90	
5	256QAM	12	13	14.96	14.70	14.84	
5	256QAM	25	0	15.08	14.58	14.93	
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	15.26	14.96	14.93	15.5
3	QPSK	1	8	15.13	14.93	14.90	
3	QPSK	1	14	14.95	14.83	14.94	
3	QPSK	8	0	15.14	15.13	15.17	15.5
3	QPSK	8	4	15.12	15.00	14.84	
3	QPSK	8	7	14.93	15.17	14.80	



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3	QPSK	15	0	15.16	15.07	15.06	
3	16QAM	1	0	15.26	14.92	14.98	15.5
3	16QAM	1	8	15.06	14.94	14.89	
3	16QAM	1	14	14.85	14.64	14.84	
3	16QAM	8	0	15.25	15.10	14.93	15.5
3	16QAM	8	4	15.02	14.98	14.87	
3	16QAM	8	7	14.90	14.98	14.73	
3	16QAM	15	0	15.15	14.99	15.01	15.5
3	64QAM	1	0	15.09	14.87	14.81	
3	64QAM	1	8	15.02	14.89	14.92	
3	64QAM	1	14	14.86	14.69	14.72	15.5
3	64QAM	8	0	14.96	15.13	15.08	
3	64QAM	8	4	14.97	15.01	14.82	
3	64QAM	8	7	14.89	15.00	14.54	15.5
3	64QAM	15	0	15.14	15.01	14.87	
3	256QAM	1	0	15.25	14.92	15.08	
3	256QAM	1	8	15.09	14.82	14.90	15.5
3	256QAM	1	14	15.03	14.92	14.93	
3	256QAM	8	0	14.86	14.68	14.85	
3	256QAM	8	4	15.05	14.65	14.80	15.5
3	256QAM	8	7	14.94	14.64	14.81	
3	256QAM	15	0	15.06	14.48	14.85	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	15.17	14.95	14.84	15.5
1.4	QPSK	1	3	15.07	14.89	14.83	
1.4	QPSK	1	5	14.86	14.81	14.87	
1.4	QPSK	3	0	15.09	15.10	15.14	
1.4	QPSK	3	1	15.11	14.92	14.75	
1.4	QPSK	3	3	14.86	15.15	14.77	
1.4	QPSK	6	0	15.09	15.06	14.96	15.5
1.4	16QAM	1	0	15.26	14.90	14.92	15.5
1.4	16QAM	1	3	15.06	14.94	14.86	
1.4	16QAM	1	5	14.85	14.59	14.84	
1.4	16QAM	3	0	15.18	15.01	14.93	
1.4	16QAM	3	1	15.01	14.92	14.84	
1.4	16QAM	3	3	14.86	14.88	14.69	
1.4	16QAM	6	0	15.05	14.90	14.98	15.5
1.4	64QAM	1	0	15.07	14.81	14.79	15.5
1.4	64QAM	1	3	14.94	14.86	14.91	
1.4	64QAM	1	5	14.77	14.60	14.66	
1.4	64QAM	3	0	14.86	15.07	15.01	
1.4	64QAM	3	1	14.96	14.98	14.73	
1.4	64QAM	3	3	14.87	14.95	14.52	
1.4	64QAM	6	0	15.10	15.00	14.87	15.5
1.4	256QAM	1	0	15.23	14.90	15.02	15.5
1.4	256QAM	1	3	15.08	14.82	14.88	
1.4	256QAM	1	5	15.00	14.89	14.85	
1.4	256QAM	3	0	14.84	14.63	14.75	
1.4	256QAM	3	1	15.01	14.56	14.78	
1.4	256QAM	3	3	14.92	14.60	14.78	
1.4	256QAM	6	0	14.96	14.41	14.79	15.5



<LTE Band 71 Main Ant State 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				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	22.15	22.22	22.22	23.5
20	QPSK	1	49	22.32	22.29	22.37	
20	QPSK	1	99	22.25	22.39	22.27	
20	QPSK	50	0	21.17	21.26	21.19	22.5
20	QPSK	50	24	21.35	21.29	21.30	
20	QPSK	50	50	21.34	21.36	21.34	
20	QPSK	100	0	21.35	21.31	21.30	
20	16QAM	1	0	21.49	21.58	21.52	22.5
20	16QAM	1	49	21.65	21.65	21.54	
20	16QAM	1	99	21.57	21.77	21.59	
20	16QAM	50	0	20.21	20.30	20.20	21.5
20	16QAM	50	24	20.38	20.29	20.31	
20	16QAM	50	50	20.34	20.36	20.33	
20	16QAM	100	0	20.36	20.28	20.31	
20	64QAM	1	0	20.35	20.46	20.41	21.5
20	64QAM	1	49	20.53	20.41	20.50	
20	64QAM	1	99	20.48	20.65	20.48	
20	64QAM	50	0	19.17	19.25	19.21	20.5
20	64QAM	50	24	19.33	19.24	19.31	
20	64QAM	50	50	19.32	19.34	19.34	
20	64QAM	100	0	19.31	19.29	19.28	
20	256QAM	1	0	17.42	17.52	17.55	18.5
20	256QAM	1	49	17.63	17.55	17.72	
20	256QAM	1	99	17.60	17.67	17.63	
20	256QAM	50	0	17.38	17.51	17.46	18.5
20	256QAM	50	24	17.57	17.44	17.52	
20	256QAM	50	50	17.52	17.53	17.65	
20	256QAM	100	0	17.51	17.40	17.48	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.00	22.20	22.08	23.5
15	QPSK	1	37	22.22	22.29	22.28	
15	QPSK	1	74	22.21	22.32	22.15	
15	QPSK	36	0	21.15	21.17	21.03	22.5
15	QPSK	36	20	21.35	21.16	21.17	
15	QPSK	36	39	21.31	21.33	21.14	
15	QPSK	75	0	21.30	21.15	21.24	
15	16QAM	1	0	21.33	21.53	21.50	22.5
15	16QAM	1	37	21.64	21.59	21.49	
15	16QAM	1	74	21.42	21.70	21.45	
15	16QAM	36	0	20.08	20.18	20.00	21.5
15	16QAM	36	20	20.35	20.11	20.14	
15	16QAM	36	39	20.32	20.24	20.19	
15	16QAM	75	0	20.22	20.09	20.16	
15	64QAM	1	0	20.28	20.36	20.37	21.5
15	64QAM	1	37	20.51	20.28	20.32	
15	64QAM	1	74	20.31	20.58	20.42	
15	64QAM	36	0	18.99	19.12	19.21	20.5
15	64QAM	36	20	19.30	19.18	19.30	
15	64QAM	36	39	19.13	19.28	19.25	
15	64QAM	75	0	19.19	19.28	19.12	
15	256QAM	1	0	17.33	17.45	17.43	18.5
15	256QAM	1	37	17.57	17.51	17.63	
15	256QAM	1	74	17.59	17.59	17.58	
15	256QAM	36	0	17.21	17.34	17.40	18.5
15	256QAM	36	20	17.52	17.25	17.33	
15	256QAM	36	39	17.46	17.49	17.56	
15	256QAM	75	0	17.51	17.23	17.32	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	



10	QPSK	1	0	22.14	22.04	22.20	23.5
10	QPSK	1	25	22.23	22.10	22.34	
10	QPSK	1	49	22.20	22.19	22.12	
10	QPSK	25	0	21.05	21.11	21.18	22.5
10	QPSK	25	12	21.28	21.13	21.12	
10	QPSK	25	25	21.32	21.32	21.15	
10	QPSK	50	0	21.18	21.20	21.27	22.5
10	16QAM	1	0	21.33	21.48	21.43	
10	16QAM	1	25	21.58	21.62	21.37	
10	16QAM	1	49	21.52	21.64	21.44	21.5
10	16QAM	25	0	20.15	20.20	20.20	
10	16QAM	25	12	20.36	20.28	20.28	
10	16QAM	25	25	20.21	20.16	20.16	21.5
10	16QAM	50	0	20.27	20.18	20.11	
10	64QAM	1	0	20.33	20.32	20.34	
10	64QAM	1	25	20.49	20.28	20.48	20.5
10	64QAM	1	49	20.41	20.51	20.46	
10	64QAM	25	0	19.10	19.17	19.14	
10	64QAM	25	12	19.25	19.09	19.18	18.5
10	64QAM	25	25	19.24	19.19	19.34	
10	64QAM	50	0	19.23	19.27	19.25	
10	256QAM	1	0	17.41	17.44	17.52	18.5
10	256QAM	1	25	17.61	17.41	17.66	
10	256QAM	1	49	17.56	17.52	17.45	
10	256QAM	25	0	17.20	17.49	17.46	18.5
10	256QAM	25	12	17.43	17.33	17.46	
10	256QAM	25	25	17.40	17.40	17.59	
10	256QAM	50	0	17.39	17.30	17.30	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	22.05	22.15	22.19	23.5
5	QPSK	1	12	22.17	22.24	22.35	
5	QPSK	1	24	22.19	22.26	22.24	
5	QPSK	12	0	21.12	21.25	21.18	22.5
5	QPSK	12	7	21.32	21.16	21.27	
5	QPSK	12	13	21.28	21.29	21.30	
5	QPSK	25	0	21.31	21.24	21.30	22.5
5	16QAM	1	0	21.42	21.51	21.41	
5	16QAM	1	12	21.65	21.50	21.37	
5	16QAM	1	24	21.42	21.62	21.50	21.5
5	16QAM	12	0	20.04	20.30	20.16	
5	16QAM	12	7	20.33	20.21	20.21	
5	16QAM	12	13	20.25	20.17	20.33	21.5
5	16QAM	25	0	20.17	20.08	20.26	
5	64QAM	1	0	20.24	20.36	20.40	
5	64QAM	1	12	20.43	20.40	20.40	20.5
5	64QAM	1	24	20.45	20.48	20.47	
5	64QAM	12	0	19.00	19.08	19.19	
5	64QAM	12	7	19.17	19.09	19.29	18.5
5	64QAM	12	13	19.14	19.22	19.21	
5	64QAM	25	0	19.22	19.18	19.18	
5	256QAM	1	0	17.24	17.46	17.49	18.5
5	256QAM	1	12	17.63	17.52	17.67	
5	256QAM	1	24	17.48	17.50	17.55	
5	256QAM	12	0	17.33	17.35	17.39	18.5
5	256QAM	12	7	17.45	17.35	17.41	
5	256QAM	12	13	17.42	17.34	17.64	
5	256QAM	25	0	17.40	17.28	17.33	



<LTE Band 71 Main Ant State 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	23.83	23.85	23.78	24.5
20	QPSK	1	49	23.76	23.76	23.68	
20	QPSK	1	99	23.59	23.72	23.65	
20	QPSK	50	0	22.83	22.84	22.78	23.5
20	QPSK	50	24	22.79	22.73	22.75	
20	QPSK	50	50	22.72	22.71	22.63	
20	QPSK	100	0	22.71	22.77	22.72	23.5
20	16QAM	1	0	22.76	22.81	22.77	
20	16QAM	1	49	22.69	22.70	22.76	
20	16QAM	1	99	22.57	22.64	22.50	22.5
20	16QAM	50	0	21.80	21.84	21.81	
20	16QAM	50	24	21.78	21.74	21.80	
20	16QAM	50	50	21.69	21.71	21.66	22.5
20	16QAM	100	0	21.82	21.85	21.75	
20	64QAM	1	0	21.62	21.65	21.55	
20	64QAM	1	49	21.45	21.59	21.51	22.5
20	64QAM	1	99	21.53	21.53	21.35	
20	64QAM	50	0	20.80	20.82	20.79	
20	64QAM	50	24	20.75	20.73	20.76	21.5
20	64QAM	50	50	20.71	20.71	20.65	
20	64QAM	100	0	20.76	20.77	20.74	
20	256QAM	1	0	19.02	19.05	18.98	19.5
20	256QAM	1	49	18.91	18.90	18.95	
20	256QAM	1	99	18.85	18.89	18.88	
20	256QAM	50	0	19.00	18.98	19.01	19.5
20	256QAM	50	24	18.98	18.90	18.92	
20	256QAM	50	50	18.93	18.94	18.88	
20	256QAM	100	0	18.91	18.92	18.92	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.81	23.75	23.74	24.5
15	QPSK	1	37	23.69	23.70	23.64	
15	QPSK	1	74	23.59	23.71	23.59	
15	QPSK	36	0	22.74	22.79	22.68	23.5
15	QPSK	36	20	22.74	22.68	22.70	
15	QPSK	36	39	22.65	22.63	22.56	
15	QPSK	75	0	22.65	22.68	22.70	23.5
15	16QAM	1	0	22.66	22.77	22.73	
15	16QAM	1	37	22.65	22.68	22.72	
15	16QAM	1	74	22.56	22.64	22.46	22.5
15	16QAM	36	0	21.77	21.84	21.71	
15	16QAM	36	20	21.76	21.69	21.73	
15	16QAM	36	39	21.63	21.61	21.58	22.5
15	16QAM	75	0	21.74	21.80	21.74	
15	64QAM	1	0	21.54	21.56	21.54	
15	64QAM	1	37	21.37	21.51	21.48	22.5
15	64QAM	1	74	21.44	21.52	21.33	
15	64QAM	36	0	20.78	20.72	20.78	
15	64QAM	36	20	20.70	20.70	20.66	21.5
15	64QAM	36	39	20.65	20.70	20.61	
15	64QAM	75	0	20.66	20.69	20.67	
15	256QAM	1	0	18.97	19.05	18.88	19.5
15	256QAM	1	37	18.82	18.85	18.88	
15	256QAM	1	74	18.81	18.81	18.88	
15	256QAM	36	0	19.00	18.98	18.95	19.5
15	256QAM	36	20	18.91	18.85	18.83	
15	256QAM	36	39	18.90	18.87	18.86	
15	256QAM	75	0	18.84	18.91	18.84	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	



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10	QPSK	1	0	23.82	23.81	23.77	24.5
10	QPSK	1	25	23.68	23.71	23.65	
10	QPSK	1	49	23.56	23.69	23.61	
10	QPSK	25	0	22.75	22.75	22.75	23.5
10	QPSK	25	12	22.73	22.73	22.65	
10	QPSK	25	25	22.62	22.61	22.61	
10	QPSK	50	0	22.70	22.74	22.62	23.5
10	16QAM	1	0	22.70	22.71	22.74	
10	16QAM	1	25	22.65	22.60	22.68	
10	16QAM	1	49	22.56	22.59	22.44	22.5
10	16QAM	25	0	21.71	21.76	21.73	
10	16QAM	25	12	21.74	21.69	21.75	
10	16QAM	25	25	21.64	21.64	21.66	22.5
10	16QAM	50	0	21.79	21.83	21.73	
10	64QAM	1	0	21.55	21.60	21.45	
10	64QAM	1	25	21.45	21.56	21.50	22.5
10	64QAM	1	49	21.45	21.43	21.34	
10	64QAM	25	0	20.72	20.81	20.73	
10	64QAM	25	12	20.65	20.72	20.74	21.5
10	64QAM	25	25	20.67	20.71	20.55	
10	64QAM	50	0	20.73	20.70	20.68	
10	256QAM	1	0	18.93	19.03	18.94	19.5
10	256QAM	1	25	18.91	18.88	18.86	
10	256QAM	1	49	18.84	18.87	18.81	
10	256QAM	25	0	18.90	18.89	18.99	19.5
10	256QAM	25	12	18.94	18.85	18.91	
10	256QAM	25	25	18.83	18.88	18.85	
10	256QAM	50	0	18.85	18.84	18.90	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	23.78	23.83	23.77	24.5
5	QPSK	1	12	23.74	23.66	23.66	
5	QPSK	1	24	23.59	23.72	23.55	
5	QPSK	12	0	22.74	22.83	22.72	23.5
5	QPSK	12	7	22.77	22.64	22.67	
5	QPSK	12	13	22.66	22.71	22.54	
5	QPSK	25	0	22.70	22.71	22.68	23.5
5	16QAM	1	0	22.67	22.77	22.70	
5	16QAM	1	12	22.68	22.60	22.68	
5	16QAM	1	24	22.57	22.56	22.44	22.5
5	16QAM	12	0	21.70	21.80	21.76	
5	16QAM	12	7	21.75	21.64	21.70	
5	16QAM	12	13	21.60	21.70	21.63	22.5
5	16QAM	25	0	21.82	21.83	21.70	
5	64QAM	1	0	21.52	21.59	21.51	
5	64QAM	1	12	21.41	21.50	21.50	22.5
5	64QAM	1	24	21.51	21.45	21.32	
5	64QAM	12	0	20.77	20.79	20.73	
5	64QAM	12	7	20.68	20.68	20.66	21.5
5	64QAM	12	13	20.64	20.69	20.58	
5	64QAM	25	0	20.69	20.72	20.65	
5	256QAM	1	0	19.01	19.05	18.97	19.5
5	256QAM	1	12	18.87	18.89	18.90	
5	256QAM	1	24	18.76	18.89	18.87	
5	256QAM	12	0	18.94	18.88	18.97	19.5
5	256QAM	12	7	18.96	18.87	18.84	
5	256QAM	12	13	18.85	18.92	18.82	
5	256QAM	25	0	18.81	18.90	18.82	



<LTE Band 38 Main Ant State 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	17.49	17.51	17.71	18
20	QPSK	1	49	17.77	17.78	17.74	
20	QPSK	1	99	17.69	17.75	17.70	
20	QPSK	50	0	16.62	16.67	16.64	17
20	QPSK	50	24	16.73	16.78	16.71	
20	QPSK	50	50	16.65	16.71	16.70	
20	QPSK	100	0	16.62	16.73	16.64	
20	16QAM	1	0	16.63	16.67	16.72	17
20	16QAM	1	49	16.96	16.86	16.89	
20	16QAM	1	99	16.77	16.79	16.79	
20	16QAM	50	0	15.60	15.67	15.59	16
20	16QAM	50	24	15.69	15.70	15.77	
20	16QAM	50	50	15.73	15.75	15.68	
20	16QAM	100	0	15.68	15.66	15.74	
20	64QAM	1	0	15.44	15.47	15.62	16
20	64QAM	1	49	15.59	15.70	15.65	
20	64QAM	1	99	15.62	15.65	15.60	
20	64QAM	50	0	14.52	14.64	14.66	15
20	64QAM	50	24	14.67	14.73	14.76	
20	64QAM	50	50	14.71	14.76	14.74	
20	64QAM	100	0	14.61	14.69	14.70	
20	256QAM	1	0	12.29	12.57	12.69	13
20	256QAM	1	49	12.46	12.74	12.70	
20	256QAM	1	99	12.57	12.63	12.58	
20	256QAM	50	0	12.45	12.66	12.75	13
20	256QAM	50	24	12.59	12.69	12.83	
20	256QAM	50	50	12.55	12.72	12.73	
20	256QAM	100	0	12.56	12.63	12.78	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	17.45	17.38	17.71	18
15	QPSK	1	37	17.72	17.71	17.59	
15	QPSK	1	74	17.54	17.60	17.68	
15	QPSK	36	0	16.45	16.58	16.57	17
15	QPSK	36	20	16.68	16.60	16.71	
15	QPSK	36	39	16.57	16.51	16.68	
15	QPSK	75	0	16.48	16.64	16.58	
15	16QAM	1	0	16.52	16.59	16.71	17
15	16QAM	1	37	16.88	16.77	16.69	
15	16QAM	1	74	16.76	16.77	16.67	
15	16QAM	36	0	15.45	15.55	15.50	16
15	16QAM	36	20	15.65	15.50	15.67	
15	16QAM	36	39	15.54	15.69	15.58	
15	16QAM	75	0	15.53	15.51	15.71	
15	64QAM	1	0	15.25	15.33	15.42	16
15	64QAM	1	37	15.48	15.54	15.51	
15	64QAM	1	74	15.55	15.47	15.45	
15	64QAM	36	0	14.46	14.59	14.52	15
15	64QAM	36	20	14.60	14.55	14.57	
15	64QAM	36	39	14.53	14.64	14.56	
15	64QAM	75	0	14.45	14.60	14.56	
15	256QAM	1	0	12.17	12.53	12.59	13
15	256QAM	1	37	12.45	12.67	12.50	
15	256QAM	1	74	12.40	12.52	12.39	
15	256QAM	36	0	12.45	12.60	12.56	13
15	256QAM	36	20	12.48	12.52	12.79	
15	256QAM	36	39	12.55	12.57	12.63	
15	256QAM	75	0	12.36	12.59	12.61	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	



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10	QPSK	1	0	17.38	17.45	17.63	18
10	QPSK	1	25	17.62	17.60	17.65	
10	QPSK	1	49	17.67	17.57	17.55	
10	QPSK	25	0	16.42	16.53	16.59	17
10	QPSK	25	12	16.73	16.69	16.52	
10	QPSK	25	25	16.48	16.69	16.61	
10	QPSK	50	0	16.61	16.57	16.45	17
10	16QAM	1	0	16.43	16.47	16.69	
10	16QAM	1	25	16.81	16.70	16.83	
10	16QAM	1	49	16.65	16.67	16.74	16
10	16QAM	25	0	15.45	15.47	15.44	
10	16QAM	25	12	15.69	15.65	15.64	
10	16QAM	25	25	15.53	15.68	15.48	16
10	16QAM	50	0	15.56	15.66	15.68	
10	64QAM	1	0	15.35	15.30	15.60	
10	64QAM	1	25	15.44	15.70	15.64	15
10	64QAM	1	49	15.53	15.55	15.44	
10	64QAM	25	0	14.39	14.48	14.55	
10	64QAM	25	12	14.60	14.61	14.67	13
10	64QAM	25	25	14.58	14.68	14.64	
10	64QAM	50	0	14.56	14.65	14.68	
10	256QAM	1	0	12.27	12.41	12.54	13
10	256QAM	1	25	12.37	12.71	12.70	
10	256QAM	1	49	12.51	12.62	12.50	
10	256QAM	25	0	12.26	12.53	12.68	13
10	256QAM	25	12	12.42	12.66	12.83	
10	256QAM	25	25	12.51	12.63	12.63	
10	256QAM	50	0	12.41	12.46	12.74	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	17.29	17.44	17.63	18
5	QPSK	1	12	17.68	17.71	17.56	
5	QPSK	1	24	17.67	17.69	17.62	
5	QPSK	12	0	16.55	16.53	16.54	17
5	QPSK	12	7	16.58	16.66	16.70	
5	QPSK	12	13	16.52	16.52	16.63	
5	QPSK	25	0	16.50	16.61	16.50	17
5	16QAM	1	0	16.55	16.52	16.56	
5	16QAM	1	12	16.87	16.77	16.70	
5	16QAM	1	24	16.77	16.67	16.68	16
5	16QAM	12	0	15.55	15.60	15.47	
5	16QAM	12	7	15.60	15.53	15.61	
5	16QAM	12	13	15.69	15.68	15.48	16
5	16QAM	25	0	15.62	15.50	15.71	
5	64QAM	1	0	15.37	15.27	15.62	
5	64QAM	1	12	15.45	15.55	15.52	15
5	64QAM	1	24	15.57	15.45	15.49	
5	64QAM	12	0	14.50	14.47	14.53	
5	64QAM	12	7	14.58	14.55	14.56	13
5	64QAM	12	13	14.70	14.64	14.55	
5	64QAM	25	0	14.55	14.64	14.62	
5	256QAM	1	0	12.22	12.50	12.59	13
5	256QAM	1	12	12.27	12.68	12.70	
5	256QAM	1	24	12.40	12.52	12.42	
5	256QAM	12	0	12.34	12.58	12.65	13
5	256QAM	12	7	12.48	12.61	12.71	
5	256QAM	12	13	12.44	12.69	12.62	
5	256QAM	25	0	12.43	12.50	12.61	



◀LTE Band 38 MIMO2 Ant State 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	18.40	18.51	18.46	19
20	QPSK	1	49	18.30	18.42	18.43	
20	QPSK	1	99	18.28	18.41	18.38	
20	QPSK	50	0	18.17	18.50	18.03	19
20	QPSK	50	24	18.26	18.40	18.35	
20	QPSK	50	50	18.27	18.32	18.34	
20	QPSK	100	0	18.12	18.48	18.00	19
20	16QAM	1	0	18.39	18.37	18.40	
20	16QAM	1	49	18.22	18.39	18.37	
20	16QAM	1	99	18.19	18.40	18.35	19
20	16QAM	50	0	18.07	18.46	18.01	
20	16QAM	50	24	18.18	18.38	18.25	
20	16QAM	50	50	18.24	18.31	18.29	19
20	16QAM	100	0	18.04	18.42	17.95	
20	64QAM	1	0	18.34	18.35	18.35	
20	64QAM	1	49	18.20	18.36	18.27	19
20	64QAM	1	99	18.19	18.33	18.32	
20	64QAM	50	0	18.03	18.36	17.91	
20	64QAM	50	24	18.13	18.30	18.19	19
20	64QAM	50	50	18.18	18.29	18.29	
20	64QAM	100	0	17.96	18.39	17.88	
20	256QAM	1	0	17.05	17.45	17.21	18
20	256QAM	1	49	17.02	17.42	17.17	
20	256QAM	1	99	17.02	17.36	17.14	
20	256QAM	50	0	16.98	17.34	17.07	18
20	256QAM	50	24	16.89	17.29	17.00	
20	256QAM	50	50	16.80	17.20	16.98	
20	256QAM	100	0	16.77	17.17	16.88	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	18.35	18.44	18.43	19
15	QPSK	1	37	18.20	18.39	18.40	
15	QPSK	1	74	18.23	18.41	18.37	
15	QPSK	36	0	18.15	18.41	17.93	19
15	QPSK	36	20	18.22	18.33	18.29	
15	QPSK	36	39	18.24	18.23	18.32	
15	QPSK	75	0	18.06	18.44	17.98	19
15	16QAM	1	0	18.36	18.36	18.38	
15	16QAM	1	37	18.17	18.34	18.31	
15	16QAM	1	74	18.19	18.31	18.27	19
15	16QAM	36	0	18.03	18.43	17.98	
15	16QAM	36	20	18.10	18.29	18.23	
15	16QAM	36	39	18.14	18.31	18.24	19
15	16QAM	75	0	18.00	18.40	17.87	
15	16QAM	75	0	18.00	18.40	17.87	
15	64QAM	1	0	18.28	18.28	18.28	19
15	64QAM	1	37	18.14	18.34	18.20	
15	64QAM	1	74	18.18	18.29	18.27	
15	64QAM	36	0	18.03	18.36	17.82	19
15	64QAM	36	20	18.09	18.26	18.17	
15	64QAM	36	39	18.15	18.28	18.27	
15	64QAM	75	0	17.86	18.32	17.79	18
15	256QAM	1	0	16.97	17.40	17.17	
15	256QAM	1	37	16.94	17.41	17.12	
15	256QAM	1	74	17.00	17.32	17.04	18
15	256QAM	36	0	16.95	17.32	17.07	
15	256QAM	36	20	16.81	17.20	16.95	
15	256QAM	36	39	16.78	17.11	16.92	18
15	256QAM	75	0	16.74	17.07	16.80	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	



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10	QPSK	1	0	18.30	18.45	18.39	19	
10	QPSK	1	25	18.16	18.30	18.33		
10	QPSK	1	49	18.16	18.28	18.24		
10	QPSK	25	0	18.10	18.41	17.94	19	
10	QPSK	25	12	18.13	18.25	18.17		
10	QPSK	25	25	18.17	18.23	18.24		
10	QPSK	50	0	17.97	18.30	17.95	19	
10	16QAM	1	0	18.31	18.32	18.30		
10	16QAM	1	25	18.22	18.29	18.29		
10	16QAM	1	49	18.07	18.27	18.29	19	
10	16QAM	25	0	17.93	18.44	17.83		
10	16QAM	25	12	18.12	18.27	18.13		
10	16QAM	25	25	18.20	18.23	18.27	19	
10	16QAM	50	0	17.93	18.35	17.84		
10	64QAM	1	0	18.24	18.24	18.27		
10	64QAM	1	25	18.06	18.31	18.20	19	
10	64QAM	1	49	18.13	18.22	18.29		
10	64QAM	25	0	17.95	18.34	17.78		
10	64QAM	25	12	18.03	18.19	18.12	19	
10	64QAM	25	25	18.10	18.19	18.13		
10	64QAM	50	0	17.87	18.26	17.82		
10	256QAM	1	0	16.97	17.30	17.14	18	
10	256QAM	1	25	16.99	17.23	17.07		
10	256QAM	1	49	16.97	17.18	17.05		
10	256QAM	25	0	16.93	17.30	17.04	18	
10	256QAM	25	12	16.78	17.17	16.82		
10	256QAM	25	25	16.75	17.11	16.90		
10	256QAM	50	0	16.67	17.11	16.75	18	
Channel				37775	38000	38225		Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	18.28	18.36	18.31	19	
5	QPSK	1	12	18.15	18.22	18.26		
5	QPSK	1	24	18.12	18.18	18.24		
5	QPSK	12	0	18.08	18.35	17.93	19	
5	QPSK	12	7	18.10	18.23	18.17		
5	QPSK	12	13	18.12	18.22	18.18		
5	QPSK	25	0	17.87	18.29	17.89	19	
5	16QAM	1	0	18.25	18.27	18.29		
5	16QAM	1	12	18.22	18.26	18.29		
5	16QAM	1	24	17.99	18.23	18.19	19	
5	16QAM	12	0	17.89	18.39	17.73		
5	16QAM	12	7	18.04	18.23	18.08		
5	16QAM	12	13	18.13	18.13	18.26	19	
5	16QAM	25	0	17.91	18.34	17.81		
5	64QAM	1	0	18.17	18.24	18.21		
5	64QAM	1	12	18.05	18.23	18.10	19	
5	64QAM	1	24	18.09	18.16	18.27		
5	64QAM	12	0	17.92	18.31	17.76		
5	64QAM	12	7	18.00	18.10	18.03	19	
5	64QAM	12	13	18.04	18.11	18.09		
5	64QAM	25	0	17.80	18.25	17.72		
5	256QAM	1	0	16.87	17.25	17.07	18	
5	256QAM	1	12	16.99	17.20	17.07		
5	256QAM	1	24	16.89	17.10	17.05		
5	256QAM	12	0	16.88	17.25	17.00	18	
5	256QAM	12	7	16.73	17.14	16.74		
5	256QAM	12	13	16.74	17.04	16.90		
5	256QAM	25	0	16.61	17.05	16.74	18	



LTE Band 38 Main Ant State 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	19.89	20.07	20.26	20.5
20	QPSK	1	49	20.00	20.25	20.34	
20	QPSK	1	99	20.14	20.18	20.13	
20	QPSK	50	0	18.96	19.15	19.25	19.5
20	QPSK	50	24	19.09	19.19	19.34	
20	QPSK	50	50	19.10	19.23	19.23	
20	QPSK	100	0	19.09	19.16	19.30	
20	16QAM	1	0	18.90	19.20	19.39	19.5
20	16QAM	1	49	19.17	19.22	19.35	
20	16QAM	1	99	19.15	19.24	19.10	
20	16QAM	50	0	17.96	18.19	18.24	18.5
20	16QAM	50	24	18.09	18.20	18.36	
20	16QAM	50	50	18.09	18.22	18.24	
20	16QAM	100	0	18.09	18.14	18.30	
20	64QAM	1	0	17.82	18.08	18.33	18.5
20	64QAM	1	49	17.90	18.11	18.20	
20	64QAM	1	99	18.17	18.11	18.12	
20	64QAM	50	0	16.97	17.15	17.26	17.5
20	64QAM	50	24	17.09	17.21	17.32	
20	64QAM	50	50	17.12	17.19	17.24	
20	64QAM	100	0	17.07	17.15	17.29	
20	256QAM	1	0	15.14	15.14	15.19	15.5
20	256QAM	1	49	15.15	15.22	15.29	
20	256QAM	1	99	15.06	15.21	15.19	
20	256QAM	50	0	14.97	15.16	15.27	15.5
20	256QAM	50	24	15.10	15.19	15.35	
20	256QAM	50	50	15.06	15.20	15.26	
20	256QAM	100	0	15.06	15.14	15.29	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.87	20.20	20.24	20.5
15	QPSK	1	37	20.04	20.18	20.28	
15	QPSK	1	74	19.99	20.16	20.08	
15	QPSK	36	0	18.88	19.15	19.25	19.5
15	QPSK	36	20	19.01	19.19	19.31	
15	QPSK	36	39	19.02	19.20	19.24	
15	QPSK	75	0	18.98	19.15	19.26	
15	16QAM	1	0	18.78	19.20	19.21	19.5
15	16QAM	1	37	18.92	19.22	19.25	
15	16QAM	1	74	18.94	19.07	19.17	
15	16QAM	36	0	17.90	18.14	18.23	18.5
15	16QAM	36	20	18.02	18.15	18.33	
15	16QAM	36	39	18.03	18.17	18.19	
15	16QAM	75	0	18.00	18.12	18.30	
15	64QAM	1	0	17.85	18.19	18.27	18.5
15	64QAM	1	37	17.88	18.28	18.25	
15	64QAM	1	74	18.10	18.22	18.13	
15	64QAM	36	0	16.87	17.13	17.24	17.5
15	64QAM	36	20	17.03	17.17	17.31	
15	64QAM	36	39	17.03	17.21	17.22	
15	64QAM	75	0	17.00	17.13	17.25	
15	256QAM	1	0	15.06	15.05	15.17	15.5
15	256QAM	1	37	15.06	15.16	15.29	
15	256QAM	1	74	15.01	15.11	15.10	
15	256QAM	36	0	14.88	15.06	15.18	15.5
15	256QAM	36	20	15.10	15.11	15.29	
15	256QAM	36	39	15.02	15.11	15.24	
15	256QAM	75	0	15.05	15.11	15.19	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	



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10	QPSK	1	0	18.91	19.15	19.29	20.5
10	QPSK	1	25	19.06	19.25	19.27	
10	QPSK	1	49	18.96	19.26	19.20	
10	QPSK	25	0	17.97	18.24	18.32	19.5
10	QPSK	25	12	18.08	18.26	18.31	
10	QPSK	25	25	18.07	18.32	18.31	
10	QPSK	50	0	18.06	18.25	18.37	19.5
10	16QAM	1	0	18.87	19.23	19.27	
10	16QAM	1	25	18.90	19.24	19.25	
10	16QAM	1	49	18.98	19.22	19.20	18.5
10	16QAM	25	0	17.97	18.25	18.34	
10	16QAM	25	12	18.08	18.25	18.30	
10	16QAM	25	25	18.06	18.31	18.31	18.5
10	16QAM	50	0	18.05	18.24	18.34	
10	64QAM	1	0	17.98	18.21	18.44	
10	64QAM	1	25	17.99	18.34	18.36	17.5
10	64QAM	1	49	18.07	18.29	18.31	
10	64QAM	25	0	16.95	17.25	17.33	
10	64QAM	25	12	17.06	17.25	17.32	15.5
10	64QAM	25	25	17.07	17.31	17.32	
10	64QAM	50	0	17.05	17.25	17.38	
10	256QAM	1	0	15.07	15.09	15.15	15.5
10	256QAM	1	25	15.08	15.20	15.27	
10	256QAM	1	49	15.06	15.20	15.13	
10	256QAM	25	0	14.87	15.11	15.18	15.5
10	256QAM	25	12	15.01	15.16	15.27	
10	256QAM	25	25	15.00	15.10	15.26	
10	256QAM	50	0	15.02	15.06	15.28	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	18.91	19.27	19.27	20.5
5	QPSK	1	12	18.99	19.31	19.37	
5	QPSK	1	24	19.01	19.26	19.29	
5	QPSK	12	0	17.92	18.24	18.27	19.5
5	QPSK	12	7	17.98	18.28	18.27	
5	QPSK	12	13	17.95	18.28	18.34	
5	QPSK	25	0	17.97	18.21	18.27	19.5
5	16QAM	1	0	18.86	19.22	19.28	
5	16QAM	1	12	18.98	19.22	19.32	
5	16QAM	1	24	18.97	19.19	19.14	18.5
5	16QAM	12	0	17.83	18.23	18.27	
5	16QAM	12	7	18.01	18.34	18.25	
5	16QAM	12	13	17.99	18.29	18.27	18.5
5	16QAM	25	0	18.00	18.23	18.25	
5	64QAM	1	0	17.92	18.28	18.27	
5	64QAM	1	12	17.97	18.25	18.28	17.5
5	64QAM	1	24	18.01	18.25	18.22	
5	64QAM	12	0	16.92	17.24	17.25	
5	64QAM	12	7	17.01	17.30	17.27	15.5
5	64QAM	12	13	16.98	17.31	17.32	
5	64QAM	25	0	16.97	17.26	17.25	
5	256QAM	1	0	15.04	15.07	15.14	15.5
5	256QAM	1	12	15.05	15.21	15.23	
5	256QAM	1	24	15.03	15.11	15.15	
5	256QAM	12	0	14.97	15.11	15.18	15.5
5	256QAM	12	7	15.00	15.16	15.34	
5	256QAM	12	13	15.00	15.17	15.18	
5	256QAM	25	0	15.00	15.09	15.28	



◀LTE Band 38 MIMO2 Ant State 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	13.58	13.68	13.66	14
20	QPSK	1	49	13.44	13.56	13.48	
20	QPSK	1	99	13.36	13.53	13.48	
20	QPSK	50	0	13.56	13.63	13.60	14
20	QPSK	50	24	13.34	13.64	13.43	
20	QPSK	50	50	13.36	13.63	13.43	
20	QPSK	100	0	13.49	13.66	13.54	14
20	16QAM	1	0	13.56	13.59	13.63	
20	16QAM	1	49	13.44	13.55	13.38	
20	16QAM	1	99	13.27	13.49	13.44	14
20	16QAM	50	0	13.46	13.57	13.52	
20	16QAM	50	24	13.26	13.63	13.37	
20	16QAM	50	50	13.33	13.59	13.41	14
20	16QAM	100	0	13.47	13.63	13.51	
20	64QAM	1	0	13.48	13.57	13.53	
20	64QAM	1	49	13.34	13.49	13.37	14
20	64QAM	1	99	13.24	13.49	13.42	
20	64QAM	50	0	13.38	13.50	13.50	
20	64QAM	50	24	13.17	13.61	13.34	14
20	64QAM	50	50	13.31	13.51	13.37	
20	64QAM	100	0	13.43	13.60	13.42	
20	256QAM	1	0	13.03	13.46	13.24	14
20	256QAM	1	49	12.94	13.42	13.20	
20	256QAM	1	99	12.91	13.40	13.19	
20	256QAM	50	0	12.88	13.38	13.09	14
20	256QAM	50	24	12.79	13.31	13.00	
20	256QAM	50	50	12.79	13.31	12.97	
20	256QAM	100	0	12.79	13.23	12.95	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	13.57	13.61	13.57	14
15	QPSK	1	37	13.38	13.51	13.46	
15	QPSK	1	74	13.36	13.50	13.41	
15	QPSK	36	0	13.46	13.54	13.51	14
15	QPSK	36	20	13.34	13.54	13.39	
15	QPSK	36	39	13.30	13.56	13.36	
15	QPSK	75	0	13.40	13.66	13.51	14
15	16QAM	1	0	13.48	13.56	13.54	
15	16QAM	1	37	13.37	13.54	13.37	
15	16QAM	1	74	13.22	13.42	13.44	14
15	16QAM	36	0	13.41	13.53	13.47	
15	16QAM	36	20	13.25	13.58	13.27	
15	16QAM	36	39	13.30	13.54	13.39	14
15	16QAM	75	0	13.38	13.58	13.45	
15	64QAM	1	0	13.40	13.55	13.48	
15	64QAM	1	37	13.34	13.42	13.31	14
15	64QAM	1	74	13.18	13.40	13.32	
15	64QAM	36	0	13.38	13.40	13.50	
15	64QAM	36	20	13.08	13.57	13.27	14
15	64QAM	36	39	13.27	13.49	13.27	
15	64QAM	75	0	13.39	13.59	13.33	
15	256QAM	1	0	12.96	13.36	13.21	14
15	256QAM	1	37	12.86	13.36	13.14	
15	256QAM	1	74	12.81	13.34	13.16	
15	256QAM	36	0	12.80	13.36	13.04	14
15	256QAM	36	20	12.74	13.31	12.92	
15	256QAM	36	39	12.69	13.25	12.96	
15	256QAM	75	0	12.75	13.16	12.88	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	



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10	QPSK	1	0	13.47	13.53	13.47	14	
10	QPSK	1	25	13.37	13.47	13.46		
10	QPSK	1	49	13.34	13.50	13.38		
10	QPSK	25	0	13.44	13.52	13.50	14	
10	QPSK	25	12	13.32	13.54	13.35		
10	QPSK	25	25	13.29	13.46	13.35		
10	QPSK	50	0	13.36	13.60	13.51	14	
10	16QAM	1	0	13.40	13.55	13.46		
10	16QAM	1	25	13.30	13.53	13.27		
10	16QAM	1	49	13.22	13.32	13.42	14	
10	16QAM	25	0	13.35	13.45	13.38		
10	16QAM	25	12	13.18	13.56	13.21		
10	16QAM	25	25	13.24	13.52	13.37	14	
10	16QAM	50	0	13.35	13.57	13.41		
10	64QAM	1	0	13.40	13.55	13.43		
10	64QAM	1	25	13.24	13.37	13.22	14	
10	64QAM	1	49	13.09	13.30	13.22		
10	64QAM	25	0	13.34	13.39	13.46		
10	64QAM	25	12	13.02	13.57	13.23	14	
10	64QAM	25	25	13.18	13.46	13.24		
10	64QAM	50	0	13.32	13.51	13.28		
10	256QAM	1	0	12.92	13.34	13.18	14	
10	256QAM	1	25	12.85	13.35	13.08		
10	256QAM	1	49	12.71	13.24	13.06		
10	256QAM	25	0	12.70	13.36	12.98	14	
10	256QAM	25	12	12.70	13.25	12.85		
10	256QAM	25	25	12.62	13.17	12.93		
10	256QAM	50	0	12.67	13.10	12.84	14	
Channel				37775	38000	38225		Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	13.46	13.47	13.43	14	
5	QPSK	1	12	13.36	13.44	13.40		
5	QPSK	1	24	13.33	13.49	13.35		
5	QPSK	12	0	13.41	13.48	13.49	14	
5	QPSK	12	7	13.24	13.46	13.29		
5	QPSK	12	13	13.29	13.46	13.27		
5	QPSK	25	0	13.33	13.60	13.49	14	
5	16QAM	1	0	13.30	13.51	13.42		
5	16QAM	1	12	13.28	13.48	13.22		
5	16QAM	1	24	13.13	13.26	13.40	14	
5	16QAM	12	0	13.30	13.36	13.32		
5	16QAM	12	7	13.14	13.55	13.13		
5	16QAM	12	13	13.18	13.42	13.36	14	
5	16QAM	25	0	13.32	13.47	13.31		
5	64QAM	1	0	13.38	13.48	13.40		
5	64QAM	1	12	13.18	13.32	13.15	14	
5	64QAM	1	24	12.99	13.30	13.15		
5	64QAM	12	0	13.26	13.29	13.41		
5	64QAM	12	7	13.02	13.55	13.19	14	
5	64QAM	12	13	13.17	13.46	13.15		
5	64QAM	25	0	13.23	13.50	13.23		
5	256QAM	1	0	12.84	13.31	13.08	14	
5	256QAM	1	12	12.84	13.30	12.98		
5	256QAM	1	24	12.70	13.20	13.00		
5	256QAM	12	0	12.66	13.28	12.92	14	
5	256QAM	12	7	12.65	13.22	12.78		
5	256QAM	12	13	12.55	13.17	12.85		
5	256QAM	25	0	12.65	13.08	12.79	14	



<LTE Band 38 HPUE Main Ant State 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	19.65	19.75	19.71	21
20	QPSK	1	49	19.69	19.78	19.72	
20	QPSK	1	99	19.79	19.70	19.64	
20	QPSK	50	0	18.58	18.69	18.70	20
20	QPSK	50	24	18.74	18.73	18.76	
20	QPSK	50	50	18.79	18.83	18.77	
20	QPSK	100	0	18.67	18.66	18.76	
20	16QAM	1	0	18.86	19.04	19.01	20
20	16QAM	1	49	19.13	19.20	19.27	
20	16QAM	1	99	19.12	19.04	19.08	
20	16QAM	50	0	17.70	17.67	17.74	19
20	16QAM	50	24	17.79	17.79	17.85	
20	16QAM	50	50	17.79	17.81	17.73	
20	16QAM	100	0	17.73	17.77	17.78	
20	64QAM	1	0	17.84	17.74	17.91	19
20	64QAM	1	49	17.84	18.00	18.01	
20	64QAM	1	99	17.90	17.96	17.88	
20	64QAM	50	0	16.67	16.70	16.74	18
20	64QAM	50	24	16.74	16.75	16.78	
20	64QAM	50	50	16.68	16.82	16.78	
20	64QAM	100	0	16.75	16.70	16.78	
20	256QAM	1	0	14.53	14.73	14.91	16
20	256QAM	1	49	14.66	14.92	14.98	
20	256QAM	1	99	14.75	14.91	14.88	
20	256QAM	50	0	14.47	14.64	14.77	16
20	256QAM	50	24	14.58	14.68	14.85	
20	256QAM	50	50	14.60	14.73	14.74	
20	256QAM	100	0	14.56	14.65	14.80	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.35	19.64	19.54	21
15	QPSK	1	37	19.69	19.74	19.60	
15	QPSK	1	74	19.63	19.65	19.61	
15	QPSK	36	0	18.46	18.68	18.52	20
15	QPSK	36	20	18.61	18.53	18.65	
15	QPSK	36	39	18.69	18.63	18.65	
15	QPSK	75	0	18.61	18.51	18.76	
15	16QAM	1	0	18.83	18.94	18.83	20
15	16QAM	1	37	18.99	19.20	19.10	
15	16QAM	1	74	18.93	18.84	19.03	
15	16QAM	36	0	17.65	17.56	17.54	19
15	16QAM	36	20	17.79	17.60	17.82	
15	16QAM	36	39	17.64	17.71	17.71	
15	16QAM	75	0	17.61	17.77	17.73	
15	64QAM	1	0	17.69	17.55	17.75	19
15	64QAM	1	37	17.78	17.99	17.92	
15	64QAM	1	74	17.83	17.83	17.74	
15	64QAM	36	0	16.63	16.59	16.60	18
15	64QAM	36	20	16.73	16.56	16.58	
15	64QAM	36	39	16.58	16.75	16.63	
15	64QAM	75	0	16.72	16.57	16.63	
15	256QAM	1	0	14.33	14.70	14.87	16
15	256QAM	1	37	14.57	14.80	14.91	
15	256QAM	1	74	14.73	14.87	14.87	
15	256QAM	36	0	14.45	14.58	14.74	16
15	256QAM	36	20	14.54	14.60	14.73	
15	256QAM	36	39	14.48	14.63	14.63	
15	256QAM	75	0	14.54	14.56	14.75	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	



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10	QPSK	1	0	19.50	19.60	19.61	21
10	QPSK	1	25	19.60	19.75	19.54	
10	QPSK	1	49	19.65	19.62	19.60	
10	QPSK	25	0	18.46	18.57	18.57	20
10	QPSK	25	12	18.72	18.62	18.68	
10	QPSK	25	25	18.78	18.66	18.67	
10	QPSK	50	0	18.54	18.60	18.69	20
10	16QAM	1	0	18.77	19.02	18.84	
10	16QAM	1	25	19.04	19.02	19.12	
10	16QAM	1	49	18.99	18.88	18.98	19
10	16QAM	25	0	17.55	17.49	17.68	
10	16QAM	25	12	17.62	17.62	17.75	
10	16QAM	25	25	17.78	17.68	17.60	19
10	16QAM	50	0	17.57	17.62	17.76	
10	64QAM	1	0	17.67	17.62	17.77	
10	64QAM	1	25	17.76	17.93	17.98	18
10	64QAM	1	49	17.86	17.79	17.80	
10	64QAM	25	0	16.54	16.58	16.68	
10	64QAM	25	12	16.57	16.62	16.75	16
10	64QAM	25	25	16.55	16.73	16.77	
10	64QAM	50	0	16.63	16.51	16.76	
10	256QAM	1	0	14.33	14.66	14.85	16
10	256QAM	1	25	14.62	14.81	14.87	
10	256QAM	1	49	14.68	14.79	14.79	
10	256QAM	25	0	14.32	14.64	14.62	16
10	256QAM	25	12	14.42	14.68	14.65	
10	256QAM	25	25	14.53	14.57	14.70	
10	256QAM	50	0	14.48	14.51	14.70	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.54	19.57	19.58	21
5	QPSK	1	12	19.68	19.78	19.55	
5	QPSK	1	24	19.70	19.67	19.46	
5	QPSK	12	0	18.45	18.69	18.53	20
5	QPSK	12	7	18.65	18.65	18.65	
5	QPSK	12	13	18.67	18.74	18.76	
5	QPSK	25	0	18.48	18.65	18.56	20
5	16QAM	1	0	18.75	19.04	18.84	
5	16QAM	1	12	18.98	19.08	19.20	
5	16QAM	1	24	19.07	18.97	18.96	19
5	16QAM	12	0	17.69	17.52	17.61	
5	16QAM	12	7	17.68	17.75	17.68	
5	16QAM	12	13	17.67	17.77	17.65	19
5	16QAM	25	0	17.67	17.77	17.61	
5	64QAM	1	0	17.82	17.54	17.86	
5	64QAM	1	12	17.67	17.97	17.81	18
5	64QAM	1	24	17.84	17.87	17.85	
5	64QAM	12	0	16.53	16.69	16.60	
5	64QAM	12	7	16.56	16.56	16.70	16
5	64QAM	12	13	16.61	16.81	16.59	
5	64QAM	25	0	16.69	16.62	16.64	
5	256QAM	1	0	14.33	14.67	14.75	16
5	256QAM	1	12	14.50	14.88	14.85	
5	256QAM	1	24	14.56	14.90	14.77	
5	256QAM	12	0	14.35	14.51	14.76	16
5	256QAM	12	7	14.54	14.63	14.77	
5	256QAM	12	13	14.48	14.62	14.69	
5	256QAM	25	0	14.56	14.53	14.63	



<LTE Band 38 HPUE Main Ant State 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	22.15	22.34	22.29	23.5
20	QPSK	1	49	22.26	22.24	22.17	
20	QPSK	1	99	22.29	22.20	22.11	
20	QPSK	50	0	21.18	21.17	21.28	22.5
20	QPSK	50	24	21.26	21.16	21.34	
20	QPSK	50	50	21.32	21.43	21.17	
20	QPSK	100	0	21.13	21.10	21.31	22.5
20	16QAM	1	0	21.41	21.60	21.42	
20	16QAM	1	49	21.54	21.68	21.83	
20	16QAM	1	99	21.54	21.63	21.56	21.5
20	16QAM	50	0	20.28	20.18	20.33	
20	16QAM	50	24	20.33	20.39	20.33	
20	16QAM	50	50	20.38	20.22	20.25	21.5
20	16QAM	100	0	20.20	20.24	20.19	
20	64QAM	1	0	20.41	20.15	20.46	
20	64QAM	1	49	20.33	20.40	20.42	21.5
20	64QAM	1	99	20.31	20.46	20.48	
20	64QAM	50	0	19.20	19.11	19.33	
20	64QAM	50	24	19.20	19.15	19.18	20.5
20	64QAM	50	50	19.21	19.37	19.22	
20	64QAM	100	0	19.18	19.15	19.34	
20	256QAM	1	0	16.99	17.13	17.35	18.5
20	256QAM	1	49	17.19	17.43	17.40	
20	256QAM	1	99	17.15	17.31	17.34	
20	256QAM	50	0	16.87	17.08	17.21	18.5
20	256QAM	50	24	17.01	17.14	17.34	
20	256QAM	50	50	17.02	17.16	17.20	
20	256QAM	100	0	17.12	17.09	17.29	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.12	22.30	22.28	23.5
15	QPSK	1	37	22.08	22.20	22.14	
15	QPSK	1	74	22.20	22.02	21.95	
15	QPSK	36	0	21.14	21.00	21.08	22.5
15	QPSK	36	20	21.25	20.98	21.28	
15	QPSK	36	39	21.29	21.32	21.15	
15	QPSK	75	0	20.97	21.04	21.18	22.5
15	16QAM	1	0	21.37	21.51	21.28	
15	16QAM	1	37	21.54	21.61	21.70	
15	16QAM	1	74	21.54	21.54	21.46	21.5
15	16QAM	36	0	20.14	20.03	20.13	
15	16QAM	36	20	20.18	20.21	20.24	
15	16QAM	36	39	20.30	20.21	20.07	21.5
15	16QAM	75	0	20.02	20.14	20.17	
15	64QAM	1	0	20.25	20.08	20.28	
15	64QAM	1	37	20.25	20.31	20.33	21.5
15	64QAM	1	74	20.17	20.44	20.44	
15	64QAM	36	0	19.16	18.92	19.28	
15	64QAM	36	20	19.16	19.12	19.07	20.5
15	64QAM	36	39	19.19	19.24	19.17	
15	64QAM	75	0	19.00	18.99	19.15	
15	256QAM	1	0	16.83	17.10	17.23	18.5
15	256QAM	1	37	17.11	17.41	17.38	
15	256QAM	1	74	17.08	17.13	17.29	
15	256QAM	36	0	16.71	16.99	17.09	18.5
15	256QAM	36	20	17.01	17.08	17.34	
15	256QAM	36	39	16.94	17.15	17.03	
15	256QAM	75	0	17.06	17.02	17.27	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	



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10	QPSK	1	0	22.06	22.20	22.21	23.5
10	QPSK	1	25	22.13	22.10	22.04	
10	QPSK	1	49	22.18	22.20	22.03	
10	QPSK	25	0	21.12	21.11	21.19	22.5
10	QPSK	25	12	21.15	21.12	21.16	
10	QPSK	25	25	21.31	21.43	21.12	
10	QPSK	50	0	20.98	21.09	21.25	22.5
10	16QAM	1	0	21.30	21.53	21.37	
10	16QAM	1	25	21.48	21.63	21.65	
10	16QAM	1	49	21.39	21.51	21.36	21.5
10	16QAM	25	0	20.17	19.99	20.27	
10	16QAM	25	12	20.32	20.21	20.20	
10	16QAM	25	25	20.35	20.21	20.09	21.5
10	16QAM	50	0	20.05	20.10	20.14	
10	64QAM	1	0	20.34	20.08	20.46	
10	64QAM	1	25	20.18	20.37	20.40	20.5
10	64QAM	1	49	20.23	20.40	20.44	
10	64QAM	25	0	19.13	19.07	19.22	
10	64QAM	25	12	19.05	19.14	19.13	18.5
10	64QAM	25	25	19.07	19.33	19.10	
10	64QAM	50	0	19.06	18.96	19.19	
10	256QAM	1	0	16.79	16.94	17.17	18.5
10	256QAM	1	25	17.14	17.25	17.27	
10	256QAM	1	49	16.96	17.11	17.27	
10	256QAM	25	0	16.87	17.07	17.08	18.5
10	256QAM	25	12	16.94	16.97	17.20	
10	256QAM	25	25	16.85	17.09	17.00	
10	256QAM	50	0	17.01	16.94	17.25	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.99	22.14	22.26	23.5
5	QPSK	1	12	22.20	22.08	22.00	
5	QPSK	1	24	22.29	22.10	22.10	
5	QPSK	12	0	21.02	21.11	21.09	22.5
5	QPSK	12	7	21.10	20.97	21.24	
5	QPSK	12	13	21.14	21.38	21.01	
5	QPSK	25	0	20.94	21.03	21.15	22.5
5	16QAM	1	0	21.23	21.42	21.25	
5	16QAM	1	12	21.37	21.61	21.73	
5	16QAM	1	24	21.44	21.47	21.42	21.5
5	16QAM	12	0	20.26	20.07	20.19	
5	16QAM	12	7	20.23	20.35	20.26	
5	16QAM	12	13	20.26	20.09	20.24	21.5
5	16QAM	25	0	20.18	20.12	20.11	
5	64QAM	1	0	20.40	20.01	20.37	
5	64QAM	1	12	20.25	20.33	20.31	20.5
5	64QAM	1	24	20.11	20.38	20.41	
5	64QAM	12	0	19.06	19.09	19.24	
5	64QAM	12	7	19.07	19.07	19.01	18.5
5	64QAM	12	13	19.10	19.35	19.03	
5	64QAM	25	0	19.07	18.98	19.19	
5	256QAM	1	0	16.81	17.04	17.19	18.5
5	256QAM	1	12	16.99	17.41	17.33	
5	256QAM	1	24	17.14	17.12	17.27	
5	256QAM	12	0	16.79	16.98	17.09	18.5
5	256QAM	12	7	16.94	16.96	17.21	
5	256QAM	12	13	16.97	17.14	17.06	
5	256QAM	25	0	17.05	16.91	17.15	



<LTE Band 41 Main Ant State 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	17.59	17.58	17.72	17.54	17.70	18
20	QPSK	1	49	17.52	17.51	17.69	17.38	17.24	
20	QPSK	1	99	17.54	17.52	17.67	17.12	17.54	17
20	QPSK	50	0	16.71	16.72	16.73	16.70	16.71	
20	QPSK	50	24	16.70	16.72	16.62	16.58	16.64	17
20	QPSK	50	50	16.66	16.65	16.59	16.52	16.52	
20	QPSK	100	0	16.63	16.66	16.70	16.64	16.66	17
20	16QAM	1	0	16.71	16.61	16.74	16.43	16.22	
20	16QAM	1	49	16.70	16.63	16.83	16.76	16.71	17
20	16QAM	1	99	16.66	16.64	16.71	16.19	16.69	
20	16QAM	50	0	15.68	15.66	15.65	15.50	15.53	16
20	16QAM	50	24	15.75	15.69	15.70	15.67	15.71	
20	16QAM	50	50	15.77	15.72	15.75	15.51	15.77	16
20	16QAM	100	0	15.74	15.69	15.68	15.61	15.67	
20	64QAM	1	0	15.42	15.46	15.57	15.27	15.16	16
20	64QAM	1	49	15.49	15.54	15.68	15.55	15.70	
20	64QAM	1	99	15.47	15.41	15.62	15.12	15.56	15
20	64QAM	50	0	14.67	14.56	14.59	14.59	14.45	
20	64QAM	50	24	14.72	14.66	14.67	14.69	14.70	15
20	64QAM	50	50	14.70	14.66	14.73	14.56	14.77	
20	64QAM	100	0	14.67	14.71	14.58	14.62	14.66	13
20	256QAM	1	0	12.62	12.33	12.61	12.37	12.11	
20	256QAM	1	49	12.66	12.25	12.62	12.56	12.59	13
20	256QAM	1	99	12.55	12.27	12.60	11.95	12.40	
20	256QAM	50	0	12.78	12.36	12.63	12.52	12.42	13
20	256QAM	50	24	12.76	12.39	12.62	12.64	12.56	
20	256QAM	50	50	12.71	12.37	12.69	12.39	12.67	13
20	256QAM	100	0	12.74	12.41	12.60	12.49	12.58	
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	17.55	17.54	17.62	17.48	17.65	18
15	QPSK	1	37	17.45	17.46	17.61	17.28	17.18	
15	QPSK	1	74	17.34	17.46	17.64	16.99	17.50	17
15	QPSK	36	0	16.63	16.62	16.56	16.67	16.52	
15	QPSK	36	20	16.69	16.69	16.55	16.54	16.60	17
15	QPSK	36	39	16.64	16.51	16.54	16.51	16.52	
15	QPSK	75	0	16.46	16.59	16.52	16.51	16.66	17
15	16QAM	1	0	16.71	16.54	16.68	16.29	16.22	
15	16QAM	1	37	16.52	16.61	16.78	16.63	16.69	17
15	16QAM	1	74	16.51	16.50	16.52	16.01	16.64	
15	16QAM	36	0	15.53	15.64	15.48	15.47	15.41	16
15	16QAM	36	20	15.64	15.65	15.63	15.47	15.53	
15	16QAM	36	39	15.72	15.60	15.69	15.33	15.62	16
15	16QAM	75	0	15.59	15.64	15.57	15.56	15.52	
15	64QAM	1	0	15.32	15.39	15.41	15.14	15.09	16
15	64QAM	1	37	15.32	15.50	15.62	15.41	15.51	
15	64QAM	1	74	15.41	15.27	15.43	15.06	15.44	15
15	64QAM	36	0	14.64	14.39	14.50	14.54	14.26	
15	64QAM	36	20	14.64	14.63	14.48	14.49	14.55	15
15	64QAM	36	39	14.58	14.57	14.70	14.56	14.72	
15	64QAM	75	0	14.55	14.65	14.56	14.54	14.48	13
15	256QAM	1	0	12.46	12.25	12.51	12.20	12.08	
15	256QAM	1	37	12.58	12.11	12.43	12.53	12.53	13
15	256QAM	1	74	12.45	12.23	12.54	11.87	12.23	
15	256QAM	36	0	12.62	12.17	12.52	12.48	12.42	13
15	256QAM	36	20	12.60	12.23	12.53	12.59	12.56	
15	256QAM	36	39	12.61	12.28	12.68	12.21	12.48	13
15	256QAM	75	0	12.74	12.40	12.60	12.39	12.58	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	



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10	QPSK	1	0	17.49	17.53	17.61	17.47	17.56	18
10	QPSK	1	25	17.47	17.40	17.54	17.24	17.08	
10	QPSK	1	49	17.53	17.46	17.64	16.92	17.44	
10	QPSK	25	0	16.57	16.58	16.73	16.58	16.55	17
10	QPSK	25	12	16.53	16.72	16.47	16.47	16.44	
10	QPSK	25	25	16.64	16.63	16.43	16.44	16.45	
10	QPSK	50	0	16.45	16.46	16.52	16.46	16.58	17
10	16QAM	1	0	16.59	16.43	16.62	16.28	16.03	
10	16QAM	1	25	16.64	16.54	16.68	16.57	16.59	
10	16QAM	1	49	16.47	16.64	16.55	16.14	16.68	16
10	16QAM	25	0	15.63	15.63	15.51	15.31	15.51	
10	16QAM	25	12	15.75	15.55	15.69	15.52	15.54	
10	16QAM	25	25	15.71	15.70	15.64	15.32	15.72	16
10	16QAM	50	0	15.55	15.62	15.55	15.44	15.60	
10	64QAM	1	0	15.29	15.43	15.57	15.18	15.14	
10	64QAM	1	25	15.49	15.52	15.65	15.52	15.55	16
10	64QAM	1	49	15.28	15.23	15.57	15.04	15.47	
10	64QAM	25	0	14.47	14.45	14.57	14.56	14.27	
10	64QAM	25	12	14.57	14.62	14.52	14.57	14.69	15
10	64QAM	25	25	14.50	14.47	14.71	14.37	14.72	
10	64QAM	50	0	14.65	14.54	14.50	14.51	14.52	
10	256QAM	1	0	12.61	12.18	12.56	12.24	12.08	13
10	256QAM	1	25	12.49	12.16	12.52	12.56	12.44	
10	256QAM	1	49	12.36	12.08	12.50	11.92	12.20	
10	256QAM	25	0	12.61	12.18	12.51	12.48	12.25	13
10	256QAM	25	12	12.62	12.24	12.55	12.49	12.53	
10	256QAM	25	25	12.67	12.25	12.66	12.39	12.55	
10	256QAM	50	0	12.68	12.26	12.56	12.36	12.46	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	17.47	17.49	17.63	17.40	17.69	18
5	QPSK	1	12	17.33	17.45	17.66	17.34	17.09	
5	QPSK	1	24	17.50	17.50	17.54	17.11	17.52	
5	QPSK	12	0	16.59	16.66	16.72	16.52	16.54	17
5	QPSK	12	7	16.70	16.55	16.48	16.42	16.52	
5	QPSK	12	13	16.53	16.51	16.45	16.42	16.44	
5	QPSK	25	0	16.63	16.46	16.55	16.51	16.47	17
5	16QAM	1	0	16.67	16.58	16.72	16.43	16.12	
5	16QAM	1	12	16.64	16.45	16.64	16.60	16.56	
5	16QAM	1	24	16.61	16.57	16.70	16.04	16.51	16
5	16QAM	12	0	15.59	15.49	15.58	15.30	15.40	
5	16QAM	12	7	15.64	15.49	15.68	15.49	15.66	
5	16QAM	12	13	15.74	15.55	15.70	15.46	15.75	16
5	16QAM	25	0	15.73	15.69	15.57	15.53	15.65	
5	64QAM	1	0	15.27	15.43	15.55	15.23	15.06	
5	64QAM	1	12	15.41	15.44	15.67	15.45	15.55	16
5	64QAM	1	24	15.29	15.33	15.42	14.93	15.50	
5	64QAM	12	0	14.50	14.40	14.54	14.45	14.41	
5	64QAM	12	7	14.56	14.50	14.62	14.53	14.55	15
5	64QAM	12	13	14.66	14.63	14.56	14.47	14.69	
5	64QAM	25	0	14.54	14.57	14.56	14.53	14.58	
5	256QAM	1	0	12.55	12.33	12.60	12.19	12.05	13
5	256QAM	1	12	12.57	12.16	12.61	12.43	12.51	
5	256QAM	1	24	12.51	12.23	12.60	11.78	12.30	
5	256QAM	12	0	12.67	12.33	12.53	12.37	12.39	13
5	256QAM	12	7	12.71	12.25	12.43	12.49	12.45	
5	256QAM	12	13	12.60	12.29	12.52	12.38	12.52	
5	256QAM	25	0	12.57	12.28	12.60	12.41	12.46	



<LTE Band 41 MIMO2 Ant State 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	18.44	18.43	18.49	18.70	18.25	19
20	QPSK	1	49	18.40	18.42	18.41	18.69	18.22	
20	QPSK	1	99	18.38	18.41	18.39	18.62	18.20	
20	QPSK	50	0	18.51	18.50	18.47	18.58	18.38	19
20	QPSK	50	24	18.48	18.40	18.42	18.56	18.32	
20	QPSK	50	50	18.45	18.32	18.34	18.48	18.25	
20	QPSK	100	0	18.50	18.48	18.48	18.55	18.54	19
20	16QAM	1	0	18.42	18.32	18.42	18.64	18.20	
20	16QAM	1	49	18.38	18.37	18.31	18.62	18.22	
20	16QAM	1	99	18.29	18.32	18.35	18.53	18.17	19
20	16QAM	50	0	18.46	18.50	18.43	18.50	18.36	
20	16QAM	50	24	18.42	18.34	18.37	18.50	18.29	
20	16QAM	50	50	18.41	18.25	18.27	18.45	18.20	19
20	16QAM	100	0	18.45	18.40	18.48	18.55	18.54	
20	64QAM	1	0	18.34	18.31	18.38	18.61	18.12	
20	64QAM	1	49	18.37	18.34	18.25	18.54	18.18	19
20	64QAM	1	99	18.25	18.30	18.33	18.47	18.08	
20	64QAM	50	0	18.37	18.41	18.41	18.49	18.29	
20	64QAM	50	24	18.33	18.27	18.34	18.45	18.22	19
20	64QAM	50	50	18.38	18.18	18.18	18.42	18.19	
20	64QAM	100	0	18.38	18.32	18.46	18.52	18.47	
20	256QAM	1	0	17.41	17.51	17.49	17.74	17.19	18
20	256QAM	1	49	17.38	17.48	17.42	17.65	17.10	
20	256QAM	1	99	17.36	17.44	17.40	17.59	17.04	
20	256QAM	50	0	17.28	17.35	17.33	17.49	16.97	18
20	256QAM	50	24	17.20	17.27	17.28	17.43	16.88	
20	256QAM	50	50	17.20	17.26	17.27	17.34	16.84	
20	256QAM	100	0	17.19	17.19	17.27	17.24	16.82	
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	18.39	18.42	18.46	18.66	18.24	19
15	QPSK	1	37	18.36	18.32	18.37	18.62	18.16	
15	QPSK	1	74	18.32	18.41	18.36	18.61	18.11	
15	QPSK	36	0	18.41	18.45	18.41	18.50	18.33	19
15	QPSK	36	20	18.46	18.34	18.41	18.55	18.29	
15	QPSK	36	39	18.35	18.31	18.33	18.40	18.21	
15	QPSK	75	0	18.50	18.41	18.46	18.47	18.54	19
15	16QAM	1	0	18.34	18.27	18.35	18.61	18.14	
15	16QAM	1	37	18.34	18.28	18.27	18.55	18.21	
15	16QAM	1	74	18.19	18.22	18.29	18.47	18.14	19
15	16QAM	36	0	18.37	18.45	18.40	18.47	18.26	
15	16QAM	36	20	18.40	18.26	18.34	18.47	18.22	
15	16QAM	36	39	18.41	18.21	18.23	18.45	18.15	19
15	16QAM	75	0	18.40	18.31	18.38	18.54	18.50	
15	64QAM	1	0	18.27	18.30	18.29	18.59	18.07	
15	64QAM	1	37	18.28	18.28	18.16	18.45	18.13	19
15	64QAM	1	74	18.20	18.29	18.28	18.43	18.05	
15	64QAM	36	0	18.30	18.41	18.31	18.49	18.19	
15	64QAM	36	20	18.29	18.20	18.25	18.40	18.15	19
15	64QAM	36	39	18.34	18.10	18.16	18.39	18.13	
15	64QAM	75	0	18.29	18.24	18.43	18.48	18.41	
15	256QAM	1	0	17.40	17.46	17.45	17.70	17.13	18
15	256QAM	1	37	17.33	17.48	17.34	17.63	17.03	
15	256QAM	1	74	17.30	17.34	17.31	17.56	17.00	
15	256QAM	36	0	17.22	17.26	17.32	17.39	16.89	18
15	256QAM	36	20	17.12	17.21	17.27	17.41	16.88	
15	256QAM	36	39	17.18	17.19	17.18	17.33	16.76	
15	256QAM	75	0	17.11	17.17	17.18	17.15	16.79	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	



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10	QPSK	1	0	18.37	18.41	18.40	18.58	18.22	19	
10	QPSK	1	25	18.27	18.25	18.37	18.58	18.13		
10	QPSK	1	49	18.22	18.38	18.35	18.55	18.03		
10	QPSK	25	0	18.34	18.42	18.35	18.44	18.23	19	
10	QPSK	25	12	18.38	18.31	18.32	18.49	18.20		
10	QPSK	25	25	18.27	18.23	18.33	18.37	18.17		
10	QPSK	50	0	18.47	18.33	18.41	18.37	18.45	19	
10	16QAM	1	0	18.31	18.21	18.34	18.59	18.10		
10	16QAM	1	25	18.28	18.23	18.26	18.46	18.13		
10	16QAM	1	49	18.15	18.13	18.22	18.44	18.12	19	
10	16QAM	25	0	18.36	18.44	18.40	18.38	18.25		
10	16QAM	25	12	18.33	18.17	18.27	18.42	18.14		
10	16QAM	25	25	18.35	18.17	18.22	18.40	18.09	19	
10	16QAM	50	0	18.39	18.24	18.28	18.53	18.43		
10	64QAM	1	0	18.25	18.27	18.22	18.59	17.97		
10	64QAM	1	25	18.25	18.26	18.15	18.42	18.08	19	
10	64QAM	1	49	18.10	18.19	18.21	18.39	17.97		
10	64QAM	25	0	18.30	18.41	18.29	18.39	18.16		
10	64QAM	25	12	18.24	18.12	18.17	18.34	18.12	19	
10	64QAM	25	25	18.31	18.08	18.16	18.30	18.03		
10	64QAM	50	0	18.24	18.17	18.37	18.45	18.38		
10	256QAM	1	0	17.39	17.38	17.36	17.61	17.12	18	
10	256QAM	1	25	17.32	17.45	17.30	17.54	16.95		
10	256QAM	1	49	17.26	17.26	17.21	17.54	16.96		
10	256QAM	25	0	17.18	17.24	17.32	17.32	16.89	18	
10	256QAM	25	12	17.09	17.13	17.21	17.35	16.81		
10	256QAM	25	25	17.18	17.16	17.09	17.29	16.75		
10	256QAM	50	0	17.11	17.11	17.12	17.09	16.72	18	
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	18.31	18.32	18.30	18.50	18.22	19	
5	QPSK	1	12	18.19	18.15	18.29	18.58	18.04		
5	QPSK	1	24	18.18	18.36	18.31	18.55	18.01		
5	QPSK	12	0	18.33	18.37	18.29	18.39	18.21	19	
5	QPSK	12	7	18.32	18.21	18.22	18.44	18.20		
5	QPSK	12	13	18.25	18.14	18.29	18.34	18.10		
5	QPSK	25	0	18.43	18.31	18.39	18.30	18.40	19	
5	16QAM	1	0	18.29	18.15	18.26	18.57	18.07		
5	16QAM	1	12	18.18	18.14	18.16	18.46	18.10		
5	16QAM	1	24	18.10	18.11	18.15	18.36	18.09	19	
5	16QAM	12	0	18.33	18.35	18.33	18.34	18.22		
5	16QAM	12	7	18.25	18.08	18.22	18.40	18.10		
5	16QAM	12	13	18.35	18.07	18.16	18.36	18.03	19	
5	16QAM	25	0	18.37	18.14	18.22	18.49	18.38		
5	64QAM	1	0	18.17	18.24	18.13	18.56	17.97		
5	64QAM	1	12	18.25	18.26	18.09	18.39	18.07	19	
5	64QAM	1	24	18.06	18.14	18.15	18.38	17.96		
5	64QAM	12	0	18.30	18.31	18.23	18.38	18.16		
5	64QAM	12	7	18.14	18.08	18.10	18.34	18.05	19	
5	64QAM	12	13	18.29	18.04	18.09	18.26	17.97		
5	64QAM	25	0	18.15	18.11	18.36	18.43	18.38		
5	256QAM	1	0	17.34	17.36	17.36	17.60	17.09	18	
5	256QAM	1	12	17.27	17.41	17.27	17.46	16.86		
5	256QAM	1	24	17.24	17.26	17.13	17.47	16.93		
5	256QAM	12	0	17.12	17.23	17.24	17.31	16.85	18	
5	256QAM	12	7	17.07	17.08	17.11	17.28	16.71		
5	256QAM	12	13	17.12	17.07	17.08	17.21	16.67		
5	256QAM	25	0	17.06	17.10	17.03	17.05	16.72	18	



<LTE Band 41 Main Ant State 3>									
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	20.13	19.86	20.36	20.07	20.12	20.5
20	QPSK	1	49	20.09	19.79	20.21	19.92	19.73	
20	QPSK	1	99	20.00	19.65	20.29	19.48	20.00	
20	QPSK	50	0	19.23	18.81	19.26	18.97	18.90	19.5
20	QPSK	50	24	19.14	18.80	19.27	18.87	19.06	
20	QPSK	50	50	19.24	18.84	19.41	19.08	19.13	
20	QPSK	100	0	19.08	18.85	19.39	18.96	19.06	19.5
20	16QAM	1	0	19.14	18.83	19.30	18.91	18.74	
20	16QAM	1	49	19.18	18.82	19.20	19.10	19.18	
20	16QAM	1	99	19.11	18.64	19.36	18.50	19.04	18.5
20	16QAM	50	0	18.27	17.81	18.25	17.99	17.88	
20	16QAM	50	24	18.27	17.88	18.27	18.08	18.06	
20	16QAM	50	50	18.22	17.82	18.32	17.87	18.15	18.5
20	16QAM	100	0	18.27	17.86	18.25	17.96	18.06	
20	64QAM	1	0	18.09	17.78	18.25	17.81	17.66	
20	64QAM	1	49	18.17	17.75	18.14	18.02	18.14	18.5
20	64QAM	1	99	17.98	17.68	18.27	17.52	17.96	
20	64QAM	50	0	17.26	16.81	17.20	16.97	16.91	
20	64QAM	50	24	17.28	16.87	17.26	17.09	17.06	17.5
20	64QAM	50	50	17.21	16.84	17.31	16.87	17.16	
20	64QAM	100	0	17.25	16.87	17.28	16.95	17.07	
20	256QAM	1	0	15.12	14.65	15.18	15.10	14.97	15.5
20	256QAM	1	49	15.13	14.68	15.24	15.10	15.02	
20	256QAM	1	99	15.05	14.75	15.28	14.47	15.01	
20	256QAM	50	0	15.27	14.80	15.21	14.99	14.89	15.5
20	256QAM	50	24	15.26	14.84	15.24	15.08	15.06	
20	256QAM	50	50	15.22	14.81	15.28	14.86	15.14	
20	256QAM	100	0	15.25	14.83	15.23	14.97	15.03	
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	20.20	19.82	20.26	19.93	19.84	20.5
15	QPSK	1	37	20.12	19.72	20.24	20.00	20.15	
15	QPSK	1	74	20.09	19.85	20.21	19.66	20.02	
15	QPSK	36	0	19.19	18.87	19.22	18.97	18.94	19.5
15	QPSK	36	20	19.27	18.84	19.22	19.04	19.06	
15	QPSK	36	39	19.24	18.83	19.26	18.93	19.14	
15	QPSK	75	0	19.25	18.82	19.21	18.98	19.02	19.5
15	16QAM	1	0	19.12	18.76	19.21	18.95	18.78	
15	16QAM	1	37	19.14	18.74	19.17	18.97	19.12	
15	16QAM	1	74	19.10	18.67	19.19	18.81	19.00	19.5
15	16QAM	36	0	18.19	17.86	18.23	17.98	17.93	
15	16QAM	36	20	18.28	17.82	18.24	18.03	18.04	
15	16QAM	36	39	18.26	17.82	18.30	17.91	18.15	18.5
15	16QAM	75	0	18.29	17.85	18.23	17.98	17.99	
15	64QAM	1	0	18.18	17.80	18.28	18.00	17.91	
15	64QAM	1	37	18.20	17.81	18.23	18.06	18.08	18.5
15	64QAM	1	74	18.13	17.78	18.33	17.80	18.03	
15	64QAM	36	0	17.23	16.88	17.25	16.97	16.96	
15	64QAM	36	20	17.27	16.83	17.21	17.04	17.06	17.5
15	64QAM	36	39	17.26	16.82	17.30	16.91	17.12	
15	64QAM	75	0	17.25	16.83	17.23	16.97	17.02	
15	256QAM	1	0	15.06	14.56	15.12	15.02	14.97	15.5
15	256QAM	1	37	15.07	14.67	15.15	15.06	14.94	
15	256QAM	1	74	14.97	14.65	15.18	14.40	15.01	
15	256QAM	36	0	15.18	14.75	15.20	14.97	14.83	15.5
15	256QAM	36	20	15.19	14.77	15.23	15.01	14.98	
15	256QAM	36	39	15.15	14.80	15.24	14.77	15.09	
15	256QAM	75	0	15.24	14.76	15.21	14.90	15.02	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	



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10	QPSK	1	0	19.23	18.96	19.37	18.81	18.90	20.5
10	QPSK	1	25	19.35	18.86	19.42	19.04	19.20	
10	QPSK	1	49	19.31	18.85	19.33	18.72	18.90	
10	QPSK	25	0	18.39	17.99	18.34	18.03	18.12	19.5
10	QPSK	25	12	18.41	18.00	18.38	18.19	18.22	
10	QPSK	25	25	18.39	17.99	18.45	18.03	18.19	
10	QPSK	50	0	18.41	18.00	18.37	18.09	18.22	19.5
10	16QAM	1	0	19.18	18.93	19.32	18.85	18.86	
10	16QAM	1	25	19.26	18.90	19.35	19.13	19.25	
10	16QAM	1	49	19.29	18.73	19.24	18.66	18.88	18.5
10	16QAM	25	0	18.38	18.00	18.34	18.02	18.11	
10	16QAM	25	12	18.42	17.98	18.39	18.17	18.21	
10	16QAM	25	25	18.38	17.97	18.44	18.02	18.17	18.5
10	16QAM	50	0	18.41	18.00	18.35	18.08	18.20	
10	64QAM	1	0	18.26	17.93	18.41	17.86	17.94	
10	64QAM	1	25	18.32	17.92	18.45	18.13	18.23	18.5
10	64QAM	1	49	18.34	17.84	18.39	17.76	17.95	
10	64QAM	25	0	17.42	16.95	17.34	17.02	17.13	
10	64QAM	25	12	17.45	16.99	17.38	17.17	17.22	17.5
10	64QAM	25	25	17.41	16.99	17.45	17.04	17.20	
10	64QAM	50	0	17.38	16.96	17.37	17.07	17.19	
10	256QAM	1	0	15.09	14.59	15.14	15.01	14.96	15.5
10	256QAM	1	25	15.09	14.62	15.20	15.01	14.97	
10	256QAM	1	49	14.99	14.65	15.24	14.47	14.92	
10	256QAM	25	0	15.17	14.70	15.19	14.99	14.89	15.5
10	256QAM	25	12	15.16	14.78	15.17	14.99	15.01	
10	256QAM	25	25	15.20	14.77	15.24	14.80	15.10	
10	256QAM	50	0	15.21	14.77	15.13	14.93	14.94	
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	19.32	18.77	19.23	19.06	19.18	20.5
5	QPSK	1	12	19.30	18.89	19.34	19.12	19.21	
5	QPSK	1	24	19.24	18.86	19.32	18.94	19.13	
5	QPSK	12	0	18.38	17.97	18.33	18.12	18.19	19.5
5	QPSK	12	7	18.41	17.95	18.36	18.13	18.23	
5	QPSK	12	13	18.35	17.96	18.41	18.11	18.25	
5	QPSK	25	0	18.39	17.94	18.35	18.11	18.17	19.5
5	16QAM	1	0	19.22	18.82	19.22	19.01	19.10	
5	16QAM	1	12	19.22	18.91	19.38	19.04	19.18	
5	16QAM	1	24	19.23	18.99	19.39	18.99	19.12	18.5
5	16QAM	12	0	18.39	17.96	18.36	18.15	18.14	
5	16QAM	12	7	18.46	18.00	18.34	18.17	18.24	
5	16QAM	12	13	18.33	17.93	18.42	18.10	18.28	18.5
5	16QAM	25	0	18.38	17.95	18.33	18.11	18.18	
5	64QAM	1	0	18.28	17.81	18.27	18.11	18.11	
5	64QAM	1	12	18.37	17.84	18.50	18.20	18.32	18.5
5	64QAM	1	24	18.38	17.88	18.46	18.04	18.12	
5	64QAM	12	0	17.40	16.97	17.33	17.15	17.20	
5	64QAM	12	7	17.43	16.98	17.38	17.15	17.21	17.5
5	64QAM	12	13	17.42	16.93	17.43	17.09	17.28	
5	64QAM	25	0	17.39	16.99	17.34	17.14	17.19	
5	256QAM	1	0	15.08	14.62	15.12	15.03	14.92	15.5
5	256QAM	1	12	15.05	14.68	15.19	15.07	14.96	
5	256QAM	1	24	14.96	14.72	15.20	14.44	14.94	
5	256QAM	12	0	15.26	14.75	15.18	14.90	14.81	15.5
5	256QAM	12	7	15.24	14.81	15.17	15.08	14.98	
5	256QAM	12	13	15.13	14.81	15.22	14.84	15.11	
5	256QAM	25	0	15.20	14.75	15.17	14.94	14.96	



<LTE Band 41 MIMO2 Ant State 3>									
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	13.76	13.60	13.76	13.88	13.40	14
20	QPSK	1	49	13.71	13.56	13.75	13.86	13.40	
20	QPSK	1	99	13.63	13.53	13.69	13.82	13.36	
20	QPSK	50	0	13.85	13.83	13.77	13.86	13.45	14
20	QPSK	50	24	13.77	13.74	13.67	13.77	13.42	
20	QPSK	50	50	13.75	13.73	13.65	13.77	13.35	
20	QPSK	100	0	13.76	13.76	13.74	13.78	13.65	14
20	16QAM	1	0	13.68	13.55	13.74	13.76	13.33	
20	16QAM	1	49	13.71	13.51	13.71	13.80	13.34	
20	16QAM	1	99	13.53	13.51	13.60	13.80	13.36	14
20	16QAM	50	0	13.82	13.83	13.68	13.75	13.39	
20	16QAM	50	24	13.72	13.70	13.64	13.67	13.34	
20	16QAM	50	50	13.70	13.68	13.59	13.72	13.28	14
20	16QAM	100	0	13.70	13.70	13.65	13.69	13.62	
20	64QAM	1	0	13.62	13.53	13.72	13.75	13.24	
20	64QAM	1	49	13.69	13.50	13.64	13.78	13.24	14
20	64QAM	1	99	13.50	13.46	13.60	13.70	13.30	
20	64QAM	50	0	13.78	13.82	13.66	13.69	13.32	
20	64QAM	50	24	13.62	13.60	13.55	13.58	13.34	14
20	64QAM	50	50	13.70	13.60	13.54	13.65	13.21	
20	64QAM	100	0	13.64	13.67	13.60	13.61	13.62	
20	256QAM	1	0	12.88	13.18	13.03	13.20	12.82	14
20	256QAM	1	49	12.83	13.14	12.99	13.19	12.82	
20	256QAM	1	99	12.75	13.09	12.94	13.09	12.74	
20	256QAM	50	0	12.70	13.06	12.91	13.09	12.74	14
20	256QAM	50	24	12.61	13.04	12.83	13.05	12.66	
20	256QAM	50	50	12.59	12.95	12.77	12.95	12.59	
20	256QAM	100	0	12.52	12.87	12.72	12.90	12.58	
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	13.73	13.50	13.66	13.83	13.34	14
15	QPSK	1	37	13.67	13.56	13.65	13.83	13.38	
15	QPSK	1	74	13.62	13.50	13.62	13.72	13.28	
15	QPSK	36	0	13.84	13.73	13.71	13.83	13.40	14
15	QPSK	36	20	13.73	13.67	13.65	13.73	13.38	
15	QPSK	36	39	13.72	13.63	13.64	13.76	13.26	
15	QPSK	75	0	13.74	13.68	13.65	13.72	13.58	14
15	16QAM	1	0	13.67	13.45	13.67	13.73	13.27	
15	16QAM	1	37	13.66	13.42	13.67	13.80	13.34	
15	16QAM	1	74	13.50	13.46	13.55	13.76	13.36	14
15	16QAM	36	0	13.78	13.82	13.61	13.67	13.34	
15	16QAM	36	20	13.68	13.66	13.64	13.64	13.34	
15	16QAM	36	39	13.66	13.66	13.55	13.63	13.22	14
15	16QAM	75	0	13.68	13.66	13.55	13.62	13.57	
15	64QAM	1	0	13.55	13.45	13.71	13.71	13.22	
15	64QAM	1	37	13.67	13.44	13.59	13.78	13.21	14
15	64QAM	1	74	13.41	13.45	13.56	13.70	13.30	
15	64QAM	36	0	13.71	13.81	13.57	13.62	13.24	
15	64QAM	36	20	13.52	13.54	13.45	13.55	13.26	14
15	64QAM	36	39	13.62	13.52	13.46	13.56	13.18	
15	64QAM	75	0	13.64	13.61	13.60	13.53	13.62	
15	256QAM	1	0	12.85	13.11	12.98	13.14	12.79	14
15	256QAM	1	37	12.83	13.14	12.95	13.12	12.78	
15	256QAM	1	74	12.74	13.03	12.86	13.08	12.73	
15	256QAM	36	0	12.69	13.03	12.81	13.05	12.68	14
15	256QAM	36	20	12.59	12.97	12.76	13.04	12.61	
15	256QAM	36	39	12.52	12.90	12.70	12.89	12.49	
15	256QAM	75	0	12.43	12.82	12.72	12.86	12.55	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	



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10	QPSK	1	0	13.65	13.45	13.60	13.77	13.29	14
10	QPSK	1	25	13.63	13.55	13.57	13.77	13.33	
10	QPSK	1	49	13.60	13.47	13.52	13.65	13.27	
10	QPSK	25	0	13.75	13.63	13.62	13.74	13.35	14
10	QPSK	25	12	13.66	13.61	13.63	13.64	13.33	
10	QPSK	25	25	13.68	13.60	13.58	13.68	13.26	
10	QPSK	50	0	13.70	13.63	13.55	13.66	13.52	14
10	16QAM	1	0	13.58	13.45	13.66	13.67	13.23	
10	16QAM	1	25	13.63	13.33	13.61	13.74	13.26	
10	16QAM	1	49	13.47	13.40	13.47	13.71	13.27	14
10	16QAM	25	0	13.75	13.75	13.60	13.58	13.25	
10	16QAM	25	12	13.61	13.58	13.61	13.57	13.30	
10	16QAM	25	25	13.58	13.59	13.47	13.59	13.18	14
10	16QAM	50	0	13.68	13.65	13.50	13.62	13.53	
10	64QAM	1	0	13.52	13.35	13.66	13.62	13.19	
10	64QAM	1	25	13.58	13.38	13.50	13.70	13.20	14
10	64QAM	1	49	13.38	13.45	13.56	13.62	13.28	
10	64QAM	25	0	13.68	13.75	13.48	13.54	13.14	
10	64QAM	25	12	13.45	13.46	13.45	13.53	13.22	14
10	64QAM	25	25	13.58	13.52	13.37	13.47	13.08	
10	64QAM	50	0	13.59	13.57	13.58	13.49	13.54	
10	256QAM	1	0	12.80	13.04	12.97	13.07	12.77	14
10	256QAM	1	25	12.80	13.04	12.87	13.12	12.69	
10	256QAM	1	49	12.66	12.97	12.78	13.07	12.72	
10	256QAM	25	0	12.68	12.93	12.77	13.03	12.59	14
10	256QAM	25	12	12.52	12.87	12.71	12.98	12.61	
10	256QAM	25	25	12.46	12.84	12.66	12.84	12.49	
10	256QAM	50	0	12.33	12.80	12.70	12.84	12.53	
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	13.60	13.38	13.51	13.75	13.28	14
5	QPSK	1	12	13.54	13.46	13.48	13.72	13.32	
5	QPSK	1	24	13.58	13.42	13.49	13.56	13.18	
5	QPSK	12	0	13.65	13.56	13.62	13.64	13.27	14
5	QPSK	12	7	13.60	13.59	13.62	13.57	13.33	
5	QPSK	12	13	13.59	13.51	13.58	13.62	13.18	
5	QPSK	25	0	13.66	13.53	13.50	13.61	13.51	14
5	16QAM	1	0	13.52	13.39	13.63	13.62	13.16	
5	16QAM	1	12	13.63	13.33	13.58	13.73	13.22	
5	16QAM	1	24	13.41	13.37	13.45	13.67	13.19	14
5	16QAM	12	0	13.72	13.71	13.55	13.56	13.23	
5	16QAM	12	7	13.55	13.51	13.56	13.54	13.24	
5	16QAM	12	13	13.48	13.58	13.47	13.49	13.09	14
5	16QAM	25	0	13.61	13.56	13.49	13.54	13.52	
5	64QAM	1	0	13.46	13.28	13.60	13.56	13.14	
5	64QAM	1	12	13.54	13.36	13.42	13.62	13.11	14
5	64QAM	1	24	13.37	13.35	13.53	13.55	13.28	
5	64QAM	12	0	13.67	13.73	13.44	13.52	13.09	
5	64QAM	12	7	13.37	13.40	13.42	13.44	13.18	14
5	64QAM	12	13	13.51	13.51	13.27	13.41	13.06	
5	64QAM	25	0	13.55	13.48	13.52	13.47	13.45	
5	256QAM	1	0	12.72	12.96	12.95	12.97	12.68	14
5	256QAM	1	12	12.77	12.99	12.87	13.03	12.68	
5	256QAM	1	24	12.63	12.94	12.78	13.00	12.65	
5	256QAM	12	0	12.63	12.83	12.73	12.95	12.50	14
5	256QAM	12	7	12.44	12.86	12.69	12.89	12.54	
5	256QAM	12	13	12.38	12.74	12.58	12.76	12.44	
5	256QAM	25	0	12.32	12.70	12.65	12.80	12.50	



<LTE Band 41 HPUE Main Ant State 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	19.65	19.68	19.77	19.64	19.84	21
20	QPSK	1	49	19.64	19.56	19.72	19.37	19.33	
20	QPSK	1	99	19.61	19.67	19.69	19.23	19.68	20
20	QPSK	50	0	18.72	18.75	18.77	18.74	18.79	
20	QPSK	50	24	18.71	18.70	18.75	18.58	18.50	
20	QPSK	50	50	18.72	18.74	18.76	18.52	18.65	
20	QPSK	100	0	18.72	18.71	18.66	18.61	18.80	
20	16QAM	1	0	18.95	19.01	19.07	18.73	18.58	
20	16QAM	1	49	18.97	19.05	19.24	19.08	19.06	20
20	16QAM	1	99	18.99	18.97	19.10	18.55	18.95	
20	16QAM	50	0	17.76	17.67	17.76	17.53	17.53	19
20	16QAM	50	24	17.76	17.77	17.78	17.74	17.76	
20	16QAM	50	50	17.82	17.73	17.79	17.54	17.79	
20	16QAM	100	0	17.80	17.76	17.69	17.62	17.65	
20	64QAM	1	0	17.75	17.71	17.97	17.56	17.51	19
20	64QAM	1	49	17.95	17.80	17.91	17.93	18.02	
20	64QAM	1	99	17.85	17.79	17.98	17.42	17.85	
20	64QAM	50	0	16.74	16.65	16.72	16.59	16.48	18
20	64QAM	50	24	16.79	16.76	16.77	16.68	16.65	
20	64QAM	50	50	16.77	16.74	16.74	16.54	16.77	
20	64QAM	100	0	16.74	16.76	16.68	16.58	16.71	
20	256QAM	1	0	14.78	14.57	14.71	14.47	14.31	16
20	256QAM	1	49	14.81	14.46	14.71	14.74	14.73	
20	256QAM	1	99	14.78	14.33	14.78	14.29	14.66	
20	256QAM	50	0	14.77	14.30	14.62	14.53	14.39	16
20	256QAM	50	24	14.75	14.35	14.60	14.58	14.56	
20	256QAM	50	50	14.72	14.32	14.67	14.38	14.66	
20	256QAM	100	0	14.74	14.35	14.59	14.48	14.56	
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	19.47	19.59	19.69	19.46	19.74	21
15	QPSK	1	37	19.64	19.56	19.69	19.23	19.15	
15	QPSK	1	74	19.52	19.63	19.58	19.14	19.56	20
15	QPSK	36	0	18.54	18.59	18.77	18.54	18.67	
15	QPSK	36	20	18.65	18.63	18.59	18.47	18.31	
15	QPSK	36	39	18.56	18.68	18.72	18.37	18.45	
15	QPSK	75	0	18.66	18.63	18.63	18.59	18.66	20
15	16QAM	1	0	18.78	18.85	19.01	18.68	18.55	
15	16QAM	1	37	18.90	18.86	19.12	19.07	18.89	
15	16QAM	1	74	18.94	18.81	18.90	18.43	18.92	
15	16QAM	36	0	17.75	17.51	17.73	17.51	17.40	
15	16QAM	36	20	17.66	17.68	17.72	17.56	17.69	
15	16QAM	36	39	17.81	17.73	17.65	17.41	17.70	19
15	16QAM	75	0	17.68	17.71	17.58	17.55	17.57	
15	64QAM	1	0	17.56	17.60	17.77	17.41	17.43	
15	64QAM	1	37	17.91	17.65	17.89	17.85	18.00	
15	64QAM	1	74	17.78	17.70	17.96	17.27	17.71	19
15	64QAM	36	0	16.74	16.47	16.52	16.43	16.39	
15	64QAM	36	20	16.59	16.75	16.65	16.60	16.56	
15	64QAM	36	39	16.71	16.60	16.61	16.43	16.61	18
15	64QAM	75	0	16.54	16.72	16.65	16.53	16.61	
15	64QAM	36	0	14.78	14.46	14.52	14.33	14.20	
15	256QAM	1	0	14.76	14.31	14.54	14.65	14.59	
15	256QAM	1	74	14.78	14.17	14.64	14.21	14.52	16
15	256QAM	36	0	14.77	14.11	14.56	14.41	14.37	
15	256QAM	36	20	14.75	14.34	14.60	14.40	14.43	16
15	256QAM	36	39	14.56	14.21	14.48	14.31	14.47	
15	256QAM	75	0	14.54	14.32	14.39	14.47	14.55	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	



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10	QPSK	1	0	19.57	19.63	19.62	19.62	19.79	21
10	QPSK	1	25	19.54	19.47	19.62	19.36	19.26	
10	QPSK	1	49	19.61	19.59	19.65	19.09	19.50	
10	QPSK	25	0	18.63	18.66	18.58	18.72	18.67	20
10	QPSK	25	12	18.54	18.55	18.68	18.38	18.47	
10	QPSK	25	25	18.55	18.57	18.66	18.46	18.53	
10	QPSK	50	0	18.56	18.55	18.48	18.59	18.71	20
10	16QAM	1	0	18.77	18.97	18.99	18.70	18.45	
10	16QAM	1	25	18.89	19.01	19.15	19.00	18.98	
10	16QAM	1	49	18.80	18.84	19.01	18.45	18.76	19
10	16QAM	25	0	17.64	17.49	17.61	17.37	17.41	
10	16QAM	25	12	17.76	17.70	17.66	17.73	17.58	
10	16QAM	25	25	17.64	17.54	17.79	17.43	17.74	19
10	16QAM	50	0	17.71	17.60	17.65	17.56	17.61	
10	64QAM	1	0	17.71	17.58	17.89	17.39	17.44	
10	64QAM	1	25	17.95	17.78	17.87	17.85	17.95	19
10	64QAM	1	49	17.79	17.72	17.88	17.31	17.84	
10	64QAM	25	0	16.69	16.53	16.52	16.49	16.34	
10	64QAM	25	12	16.73	16.69	16.62	16.55	16.51	18
10	64QAM	25	25	16.59	16.56	16.67	16.49	16.73	
10	64QAM	50	0	16.72	16.60	16.59	16.40	16.52	
10	256QAM	1	0	14.61	14.38	14.59	14.41	14.13	16
10	256QAM	1	25	14.71	14.26	14.60	14.54	14.64	
10	256QAM	1	49	14.74	14.30	14.61	14.24	14.65	
10	256QAM	25	0	14.76	14.14	14.57	14.50	14.33	16
10	256QAM	25	12	14.56	14.16	14.40	14.49	14.37	
10	256QAM	25	25	14.70	14.15	14.52	14.26	14.64	
10	256QAM	50	0	14.65	14.15	14.43	14.41	14.46	
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	19.61	19.52	19.73	19.53	19.71	21
5	QPSK	1	12	19.64	19.45	19.61	19.34	19.18	
5	QPSK	1	24	19.55	19.57	19.58	19.08	19.63	
5	QPSK	12	0	18.70	18.65	18.61	18.59	18.65	20
5	QPSK	12	7	18.66	18.64	18.59	18.41	18.37	
5	QPSK	12	13	18.55	18.57	18.66	18.52	18.57	
5	QPSK	25	0	18.62	18.51	18.63	18.56	18.68	20
5	16QAM	1	0	18.90	19.00	18.87	18.68	18.42	
5	16QAM	1	12	18.94	19.00	19.14	19.01	18.96	
5	16QAM	1	24	18.90	18.80	19.05	18.54	18.77	19
5	16QAM	12	0	17.74	17.51	17.73	17.46	17.44	
5	16QAM	12	7	17.58	17.74	17.67	17.63	17.67	
5	16QAM	12	13	17.69	17.54	17.67	17.50	17.68	19
5	16QAM	25	0	17.64	17.76	17.67	17.57	17.61	
5	64QAM	1	0	17.75	17.54	17.86	17.41	17.47	
5	64QAM	1	12	17.81	17.63	17.91	17.87	18.02	19
5	64QAM	1	24	17.78	17.73	17.91	17.28	17.75	
5	64QAM	12	0	16.54	16.56	16.63	16.51	16.33	
5	64QAM	12	7	16.62	16.76	16.70	16.51	16.54	18
5	64QAM	12	13	16.71	16.72	16.62	16.54	16.65	
5	64QAM	25	0	16.67	16.63	16.50	16.57	16.67	
5	256QAM	1	0	14.77	14.56	14.65	14.30	14.12	16
5	256QAM	1	12	14.66	14.37	14.69	14.63	14.73	
5	256QAM	1	24	14.75	14.30	14.71	14.29	14.51	
5	256QAM	12	0	14.69	14.11	14.48	14.53	14.32	16
5	256QAM	12	7	14.63	14.32	14.53	14.41	14.47	
5	256QAM	12	13	14.69	14.26	14.55	14.33	14.52	
5	256QAM	25	0	14.67	14.31	14.57	14.34	14.54	



<LTE Band 41 HPUE Main Ant State 3>									
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	22.40	21.76	22.10	22.07	22.08	23.5
20	QPSK	1	49	22.04	21.72	22.06	21.85	21.62	
20	QPSK	1	99	22.02	21.66	22.05	21.53	21.98	
20	QPSK	50	0	21.23	20.77	21.09	20.99	20.90	22.5
20	QPSK	50	24	21.19	20.85	21.09	21.05	21.09	
20	QPSK	50	50	21.26	20.89	21.14	21.07	21.15	
20	QPSK	100	0	21.23	20.84	21.08	20.97	21.04	22.5
20	16QAM	1	0	21.45	21.13	21.40	21.16	20.94	
20	16QAM	1	49	21.43	21.13	21.42	21.41	21.44	
20	16QAM	1	99	21.39	21.17	21.41	20.78	21.33	21.5
20	16QAM	50	0	20.27	19.81	20.10	20.01	19.93	
20	16QAM	50	24	20.27	19.88	20.14	20.11	20.06	
20	16QAM	50	50	20.20	19.82	20.16	19.89	20.16	21.5
20	16QAM	100	0	20.25	19.84	20.09	19.98	20.07	
20	64QAM	1	0	20.33	20.02	20.33	20.11	19.92	
20	64QAM	1	49	20.35	20.00	20.36	20.29	20.35	21.5
20	64QAM	1	99	20.23	19.94	20.33	19.77	20.22	
20	64QAM	50	0	19.25	18.82	19.10	18.98	18.90	
20	64QAM	50	24	19.26	18.89	19.13	19.09	19.08	20.5
20	64QAM	50	50	19.20	18.83	19.15	18.87	19.13	
20	64QAM	100	0	19.22	18.85	19.08	18.97	19.06	
20	256QAM	1	0	17.33	16.89	17.21	17.03	17.22	18.5
20	256QAM	1	49	17.33	16.94	17.30	17.12	17.26	
20	256QAM	1	99	17.35	16.83	17.26	16.73	17.18	
20	256QAM	50	0	17.29	16.84	17.13	17.02	16.94	18.5
20	256QAM	50	24	17.30	16.90	17.15	17.08	17.09	
20	256QAM	50	50	17.20	16.84	17.18	16.90	17.15	
20	256QAM	100	0	17.27	16.85	17.10	16.96	17.08	
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	22.08	21.83	22.04	21.94	21.77	23.5
15	QPSK	1	37	22.12	21.68	22.02	22.01	22.13	
15	QPSK	1	74	22.02	21.71	22.00	21.63	22.04	
15	QPSK	36	0	21.18	20.88	21.09	21.01	20.96	22.5
15	QPSK	36	20	21.26	20.82	21.07	21.05	21.09	
15	QPSK	36	39	21.21	20.82	21.13	20.93	21.17	
15	QPSK	75	0	21.25	20.83	21.04	21.00	21.02	22.5
15	16QAM	1	0	21.31	20.90	21.16	21.03	20.88	
15	16QAM	1	37	21.34	20.85	21.20	21.12	21.19	
15	16QAM	1	74	21.27	20.81	21.15	20.75	21.18	21.5
15	16QAM	36	0	20.17	19.87	20.08	20.00	19.95	
15	16QAM	36	20	20.25	19.84	20.09	20.09	20.11	
15	16QAM	36	39	20.25	19.80	20.13	19.94	20.15	21.5
15	16QAM	75	0	20.25	19.85	20.06	20.00	20.05	
15	64QAM	1	0	20.27	20.04	20.37	20.17	19.97	
15	64QAM	1	37	20.39	19.97	20.30	20.33	20.47	21.5
15	64QAM	1	74	20.28	19.91	20.32	19.83	20.30	
15	64QAM	36	0	19.17	18.87	19.09	19.00	18.99	
15	64QAM	36	20	19.28	18.84	19.09	19.07	19.11	20.5
15	64QAM	36	39	19.23	18.80	19.15	18.94	19.19	
15	64QAM	75	0	19.27	18.86	19.07	19.02	19.03	
15	256QAM	1	0	17.24	16.89	17.18	16.95	17.14	18.5
15	256QAM	1	37	17.28	16.85	17.24	17.06	17.18	
15	256QAM	1	74	17.34	16.80	17.21	16.69	17.13	
15	256QAM	36	0	17.27	16.83	17.03	17.01	16.92	18.5
15	256QAM	36	20	17.22	16.86	17.08	16.98	17.06	
15	256QAM	36	39	17.13	16.80	17.11	16.82	17.06	
15	256QAM	75	0	17.20	16.85	17.04	16.88	17.00	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	



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10	QPSK	1	0	22.32	21.95	22.24	21.85	21.95	23.5
10	QPSK	1	25	22.14	21.96	22.26	22.11	22.26	
10	QPSK	1	49	22.28	21.85	22.14	21.79	21.97	
10	QPSK	25	0	21.37	21.00	21.20	21.05	21.13	22.5
10	QPSK	25	12	21.39	21.02	21.24	21.19	21.21	
10	QPSK	25	25	21.36	20.99	21.29	21.05	21.21	
10	QPSK	50	0	21.38	21.03	21.23	21.12	21.22	22.5
10	16QAM	1	0	21.72	21.37	21.54	21.23	21.40	
10	16QAM	1	25	21.74	21.26	21.63	21.43	21.58	
10	16QAM	1	49	21.61	21.21	21.58	21.20	21.33	21.5
10	16QAM	25	0	20.39	20.06	20.23	20.03	20.16	
10	16QAM	25	12	20.41	20.02	20.26	20.21	20.24	
10	16QAM	25	25	20.37	20.00	20.33	20.06	20.17	21.5
10	16QAM	50	0	20.37	20.03	20.26	20.14	20.24	
10	64QAM	1	0	20.58	20.23	20.48	20.09	20.16	
10	64QAM	1	25	20.63	20.19	20.53	20.38	20.58	21.5
10	64QAM	1	49	20.56	20.09	20.47	20.06	20.32	
10	64QAM	25	0	19.39	19.02	19.21	19.05	19.16	
10	64QAM	25	12	19.43	19.05	19.27	19.23	19.24	20.5
10	64QAM	25	25	19.36	19.02	19.31	19.08	19.19	
10	64QAM	50	0	19.38	19.03	19.22	19.11	19.23	
10	256QAM	1	0	17.31	16.79	17.14	16.93	17.14	18.5
10	256QAM	1	25	17.28	16.94	17.24	17.09	17.18	
10	256QAM	1	49	17.31	16.74	17.19	16.67	17.09	
10	256QAM	25	0	17.25	16.82	17.08	17.00	16.93	18.5
10	256QAM	25	12	17.28	16.90	17.07	17.08	17.03	
10	256QAM	25	25	17.17	16.83	17.16	16.84	17.09	
10	256QAM	50	0	17.23	16.80	17.08	16.86	17.03	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	22.31	21.84	22.15	22.04	22.21	23.5
5	QPSK	1	12	22.32	21.94	22.26	22.16	22.31	
5	QPSK	1	24	22.32	21.88	22.22	22.02	22.18	
5	QPSK	12	0	21.35	20.98	21.21	21.18	21.19	22.5
5	QPSK	12	7	21.36	21.00	21.23	21.19	21.23	
5	QPSK	12	13	21.33	20.97	21.27	21.13	21.26	
5	QPSK	25	0	21.33	20.99	21.19	21.13	21.21	22.5
5	16QAM	1	0	21.71	21.26	21.52	21.42	21.60	
5	16QAM	1	12	21.71	21.29	21.62	21.45	21.67	
5	16QAM	1	24	21.68	21.29	21.56	21.41	21.55	21.5
5	16QAM	12	0	20.40	20.01	20.22	20.19	20.16	
5	16QAM	12	7	20.44	20.04	20.31	20.20	20.36	
5	16QAM	12	13	20.40	20.05	20.27	20.22	20.40	21.5
5	16QAM	25	0	20.36	19.99	20.19	20.15	20.24	
5	64QAM	1	0	20.63	20.16	20.38	20.35	20.52	
5	64QAM	1	12	20.57	20.22	20.51	20.33	20.53	21.5
5	64QAM	1	24	20.60	20.18	20.49	20.26	20.51	
5	64QAM	12	0	19.42	19.08	19.18	19.25	19.18	
5	64QAM	12	7	19.44	19.10	19.33	19.28	19.28	20.5
5	64QAM	12	13	19.37	18.98	19.42	19.16	19.38	
5	64QAM	25	0	19.35	18.99	19.19	19.16	19.21	
5	256QAM	1	0	17.24	16.88	17.18	17.02	17.15	18.5
5	256QAM	1	12	17.29	16.84	17.23	17.03	17.23	
5	256QAM	1	24	17.29	16.76	17.25	16.70	17.11	
5	256QAM	12	0	17.24	16.74	17.10	17.00	16.84	18.5
5	256QAM	12	7	17.26	16.81	17.06	17.08	17.06	
5	256QAM	12	13	17.11	16.84	17.17	16.86	17.12	
5	256QAM	25	0	17.17	16.83	17.00	16.87	17.05	



<LTE Band 42 Main Ant State 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				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	19.33	19.00	19.02	20
20	QPSK	1	49	19.09	18.86	18.84	
20	QPSK	1	99	19.08	18.83	18.82	
20	QPSK	50	0	19.23	18.94	18.95	20
20	QPSK	50	24	19.14	18.91	18.86	
20	QPSK	50	50	19.21	18.98	18.99	
20	QPSK	100	0	19.31	19.00	18.99	20
20	16QAM	1	0	19.27	18.99	18.99	
20	16QAM	1	49	19.29	18.97	19.01	
20	16QAM	1	99	19.05	18.81	18.80	20
20	16QAM	50	0	19.01	18.73	18.76	
20	16QAM	50	24	19.15	18.91	18.95	
20	16QAM	50	50	19.05	18.91	18.79	20
20	16QAM	100	0	19.15	18.90	18.94	
20	64QAM	1	0	19.21	18.92	18.90	
20	64QAM	1	49	19.18	18.93	18.91	20
20	64QAM	1	99	19.29	18.96	18.91	
20	64QAM	50	0	18.99	18.78	18.79	
20	64QAM	50	24	18.93	18.65	18.70	20
20	64QAM	50	50	19.14	18.89	18.90	
20	64QAM	100	0	19.05	18.91	18.70	
20	256QAM	1	0	18.27	17.95	17.90	19
20	256QAM	1	49	18.16	17.90	17.87	
20	256QAM	1	99	18.19	17.90	17.99	
20	256QAM	50	0	17.97	17.79	17.71	19
20	256QAM	50	24	18.07	17.74	17.72	
20	256QAM	50	50	18.03	17.82	17.81	
20	256QAM	100	0	18.10	17.76	17.80	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	19.26	18.97	18.93	20
15	QPSK	1	37	19.08	18.76	18.82	
15	QPSK	1	74	19.05	18.78	18.80	
15	QPSK	36	0	19.13	18.86	18.94	20
15	QPSK	36	20	19.09	18.84	18.78	
15	QPSK	36	39	19.13	18.88	18.97	
15	QPSK	75	0	19.23	18.95	18.92	20
15	16QAM	1	0	19.25	18.91	18.97	
15	16QAM	1	37	19.23	18.88	18.93	
15	16QAM	1	74	19.05	18.77	18.72	20
15	16QAM	36	0	18.91	18.67	18.68	
15	16QAM	36	20	19.10	18.84	18.95	
15	16QAM	36	39	19.01	18.86	18.74	20
15	16QAM	75	0	19.08	18.87	18.94	
15	16QAM	75	0	19.08	18.87	18.94	
15	64QAM	1	0	19.18	18.91	18.87	20
15	64QAM	1	37	19.14	18.91	18.91	
15	64QAM	1	74	19.25	18.96	18.87	
15	64QAM	36	0	18.93	18.70	18.74	20
15	64QAM	36	20	18.87	18.64	18.69	
15	64QAM	36	39	19.11	18.82	18.89	
15	64QAM	36	39	19.11	18.82	18.89	20
15	64QAM	75	0	19.04	18.88	18.63	
15	64QAM	75	0	19.04	18.88	18.63	
15	256QAM	1	0	18.19	17.93	17.82	19
15	256QAM	1	37	18.08	17.82	17.83	
15	256QAM	1	74	18.12	17.86	17.95	
15	256QAM	36	0	17.87	17.79	17.66	19
15	256QAM	36	20	18.00	17.64	17.71	
15	256QAM	36	39	17.93	17.77	17.75	
15	256QAM	75	0	18.00	17.73	17.71	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	



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10	QPSK	1	0	19.26	18.90	18.94	20	
10	QPSK	1	25	19.00	18.76	18.83		
10	QPSK	1	49	18.99	18.73	18.81		
10	QPSK	25	0	19.22	18.84	18.90	20	
10	QPSK	25	12	19.07	18.87	18.80		
10	QPSK	25	25	19.13	18.97	18.89		
10	QPSK	50	0	19.27	19.00	18.96	20	
10	16QAM	1	0	19.27	18.99	18.89		
10	16QAM	1	25	19.21	18.90	18.92		
10	16QAM	1	49	19.04	18.80	18.71	20	
10	16QAM	25	0	19.01	18.63	18.67		
10	16QAM	25	12	19.10	18.86	18.95		
10	16QAM	25	25	19.00	18.85	18.74	20	
10	16QAM	50	0	19.13	18.84	18.87		
10	64QAM	1	0	19.21	18.83	18.89		
10	64QAM	1	25	19.09	18.92	18.81	20	
10	64QAM	1	49	19.27	18.87	18.87		
10	64QAM	25	0	18.91	18.74	18.77		
10	64QAM	25	12	18.87	18.57	18.70	20	
10	64QAM	25	25	19.06	18.89	18.81		
10	64QAM	50	0	19.03	18.88	18.66		
10	256QAM	1	0	18.22	17.94	17.88	19	
10	256QAM	1	25	18.10	17.85	17.81		
10	256QAM	1	49	18.14	17.86	17.92		
10	256QAM	25	0	17.90	17.72	17.63	19	
10	256QAM	25	12	18.06	17.68	17.68		
10	256QAM	25	25	17.95	17.75	17.79		
10	256QAM	50	0	18.00	17.70	17.78	19	
Channel				42115	42590	43065		Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5		
5	QPSK	1	0	19.28	18.95	18.99	20	
5	QPSK	1	12	19.09	18.85	18.75		
5	QPSK	1	24	18.99	18.75	18.73		
5	QPSK	12	0	19.20	18.86	18.94	20	
5	QPSK	12	7	19.07	18.82	18.86		
5	QPSK	12	13	19.17	18.97	18.91		
5	QPSK	25	0	19.27	18.96	18.92	20	
5	16QAM	1	0	19.19	18.92	18.90		
5	16QAM	1	12	19.27	18.87	18.93		
5	16QAM	1	24	18.95	18.73	18.79	20	
5	16QAM	12	0	18.93	18.63	18.73		
5	16QAM	12	7	19.15	18.84	18.89		
5	16QAM	12	13	19.03	18.85	18.76	20	
5	16QAM	25	0	19.06	18.80	18.92		
5	64QAM	1	0	19.17	18.84	18.87		
5	64QAM	1	12	19.16	18.89	18.88	20	
5	64QAM	1	24	19.24	18.91	18.82		
5	64QAM	12	0	18.94	18.68	18.79		
5	64QAM	12	7	18.89	18.55	18.66	20	
5	64QAM	12	13	19.13	18.81	18.80		
5	64QAM	25	0	19.01	18.88	18.67		
5	256QAM	1	0	18.23	17.87	17.88	19	
5	256QAM	1	12	18.07	17.87	17.83		
5	256QAM	1	24	18.11	17.90	17.96		
5	256QAM	12	0	17.89	17.79	17.67	19	
5	256QAM	12	7	18.02	17.66	17.65		
5	256QAM	12	13	17.96	17.74	17.76		
5	256QAM	25	0	18.02	17.71	17.70	19	



◀LTE Band 42 MIMO2 Ant State 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				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	20.23	19.99	20.07	20.5
20	QPSK	1	49	20.20	19.95	19.94	
20	QPSK	1	99	20.01	19.87	19.96	
20	QPSK	50	0	19.29	19.04	19.11	19.5
20	QPSK	50	24	19.28	19.03	19.08	
20	QPSK	50	50	19.20	18.99	19.05	
20	QPSK	100	0	19.25	19.03	19.11	19.5
20	16QAM	1	0	19.18	19.02	18.80	
20	16QAM	1	49	19.23	18.88	19.06	
20	16QAM	1	99	18.98	18.91	18.97	18.5
20	16QAM	50	0	18.27	17.99	18.02	
20	16QAM	50	24	18.26	18.05	18.12	
20	16QAM	50	50	18.20	17.97	18.15	18.5
20	16QAM	100	0	18.27	18.04	18.14	
20	64QAM	1	0	18.16	17.94	17.88	
20	64QAM	1	49	18.22	17.87	18.03	18.5
20	64QAM	1	99	18.19	17.95	18.19	
20	64QAM	50	0	17.26	16.98	17.00	
20	64QAM	50	24	17.24	17.02	17.11	17.5
20	64QAM	50	50	17.16	16.96	17.12	
20	64QAM	100	0	17.23	17.03	17.10	
20	256QAM	1	0	15.21	14.91	14.95	15.5
20	256QAM	1	49	15.13	14.96	14.96	
20	256QAM	1	99	15.02	14.96	15.13	
20	256QAM	50	0	15.29	14.98	14.98	15.5
20	256QAM	50	24	15.27	15.01	15.15	
20	256QAM	50	50	15.21	14.98	15.14	
20	256QAM	100	0	15.25	15.05	15.13	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	20.18	19.96	19.86	20.5
15	QPSK	1	37	20.18	19.83	19.92	
15	QPSK	1	74	19.91	19.78	20.06	
15	QPSK	36	0	19.17	18.81	18.96	19.5
15	QPSK	36	20	19.24	18.92	18.98	
15	QPSK	36	39	19.16	18.95	19.15	
15	QPSK	75	0	19.06	18.87	19.07	19.5
15	16QAM	1	0	19.09	18.98	18.71	
15	16QAM	1	37	19.12	18.75	19.00	
15	16QAM	1	74	18.96	18.79	18.97	18.5
15	16QAM	36	0	18.20	17.90	17.84	
15	16QAM	36	20	18.19	17.87	17.94	
15	16QAM	36	39	18.18	17.88	18.11	18.5
15	16QAM	75	0	18.13	18.00	18.06	
15	64QAM	1	0	18.11	17.93	17.69	
15	64QAM	1	37	18.16	17.80	17.89	18.5
15	64QAM	1	74	18.04	17.94	18.03	
15	64QAM	36	0	17.08	16.93	16.92	
15	64QAM	36	20	17.07	16.97	17.07	17.5
15	64QAM	36	39	17.03	16.90	16.99	
15	64QAM	75	0	17.04	17.00	17.02	
15	256QAM	1	0	15.15	14.74	14.75	15.5
15	256QAM	1	37	14.98	14.95	14.93	
15	256QAM	1	74	15.01	14.96	15.01	
15	256QAM	36	0	15.09	14.86	14.87	15.5
15	256QAM	36	20	15.10	15.01	15.11	
15	256QAM	36	39	15.16	14.85	14.95	
15	256QAM	75	0	15.22	14.95	15.13	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	



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10	QPSK	1	0	20.05	19.81	19.74	20.5
10	QPSK	1	25	20.19	19.90	19.92	
10	QPSK	1	49	19.89	19.86	19.89	
10	QPSK	25	0	19.19	18.86	18.88	19.5
10	QPSK	25	12	19.12	18.92	18.99	
10	QPSK	25	25	19.06	18.87	19.00	
10	QPSK	50	0	19.16	18.87	19.11	19.5
10	16QAM	1	0	18.99	18.92	18.70	
10	16QAM	1	25	19.15	18.79	18.96	
10	16QAM	1	49	18.96	18.85	18.82	18.5
10	16QAM	25	0	18.26	17.92	17.95	
10	16QAM	25	12	18.15	17.94	18.10	
10	16QAM	25	25	18.07	17.91	18.07	18.5
10	16QAM	50	0	18.09	17.99	18.11	
10	64QAM	1	0	18.16	17.83	17.84	
10	64QAM	1	25	18.10	17.77	18.00	17.5
10	64QAM	1	49	18.05	17.95	18.03	
10	64QAM	25	0	17.19	16.94	16.93	
10	64QAM	25	12	17.22	16.87	16.94	15.5
10	64QAM	25	25	17.01	16.85	16.96	
10	64QAM	50	0	17.07	16.87	16.98	
10	256QAM	1	0	15.05	14.87	14.92	15.5
10	256QAM	1	25	14.98	14.95	14.86	
10	256QAM	1	49	14.91	14.93	14.98	
10	256QAM	25	0	15.11	14.91	14.93	15.5
10	256QAM	25	12	15.19	14.88	15.10	
10	256QAM	25	25	15.18	14.82	15.00	
10	256QAM	50	0	15.21	14.96	15.00	
Channel				42115	42590	43064	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	20.10	19.89	19.87	20.5
5	QPSK	1	12	20.09	19.92	19.81	
5	QPSK	1	24	19.83	19.78	19.95	
5	QPSK	12	0	19.28	18.92	18.91	19.5
5	QPSK	12	7	19.28	18.85	18.97	
5	QPSK	12	13	19.12	18.83	18.98	
5	QPSK	25	0	19.19	19.02	18.97	19.5
5	16QAM	1	0	19.09	18.88	18.68	
5	16QAM	1	12	19.12	18.82	18.92	
5	16QAM	1	24	18.82	18.90	18.78	18.5
5	16QAM	12	0	18.14	17.85	17.96	
5	16QAM	12	7	18.09	18.03	18.10	
5	16QAM	12	13	18.09	17.80	18.15	18.5
5	16QAM	25	0	18.07	18.01	18.05	
5	64QAM	1	0	18.06	17.93	17.72	
5	64QAM	1	12	18.07	17.87	17.96	17.5
5	64QAM	1	24	18.09	17.87	18.08	
5	64QAM	12	0	17.26	16.84	16.95	
5	64QAM	12	7	17.13	16.83	17.00	15.5
5	64QAM	12	13	17.16	16.86	17.01	
5	64QAM	25	0	17.09	16.86	17.05	
5	256QAM	1	0	15.17	14.90	14.80	15.5
5	256QAM	1	12	15.13	14.84	14.81	
5	256QAM	1	24	15.00	14.85	15.13	
5	256QAM	12	0	15.21	14.89	14.88	15.5
5	256QAM	12	7	15.11	14.97	15.06	
5	256QAM	12	13	15.12	14.84	15.06	
5	256QAM	25	0	15.21	14.86	15.04	



<LTE Band 42 Main Ant State 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				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	22.26	22.29	22.40	23
20	QPSK	1	49	22.11	22.16	22.23	
20	QPSK	1	99	22.08	22.18	22.23	
20	QPSK	50	0	22.25	22.26	22.28	23
20	QPSK	50	24	22.04	22.23	22.23	
20	QPSK	50	50	22.01	22.27	22.26	
20	QPSK	100	0	22.15	22.29	22.33	23
20	16QAM	1	0	22.20	22.27	22.37	
20	16QAM	1	49	22.09	22.12	22.17	
20	16QAM	1	99	22.03	22.09	22.20	23
20	16QAM	50	0	22.19	22.23	22.26	
20	16QAM	50	24	22.02	22.13	22.12	
20	16QAM	50	50	21.91	22.27	22.07	23
20	16QAM	100	0	22.05	22.27	22.17	
20	64QAM	1	0	22.10	22.25	22.32	
20	64QAM	1	49	22.07	22.07	22.09	23
20	64QAM	1	99	22.00	22.07	22.11	
20	64QAM	50	0	21.13	21.15	21.21	
20	64QAM	50	24	20.98	21.07	21.07	22
20	64QAM	50	50	20.86	21.17	21.04	
20	64QAM	100	0	21.04	21.21	21.13	
20	256QAM	1	0	18.99	19.01	19.15	20
20	256QAM	1	49	18.98	18.92	19.05	
20	256QAM	1	99	18.97	18.82	18.98	
20	256QAM	50	0	18.89	18.74	18.88	20
20	256QAM	50	24	18.89	18.68	18.88	
20	256QAM	50	50	18.83	18.67	18.83	
20	256QAM	100	0	18.76	18.57	18.73	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	22.12	22.21	22.38	23
15	QPSK	1	37	21.95	22.09	22.23	
15	QPSK	1	74	21.96	22.13	22.17	
15	QPSK	36	0	22.05	22.12	22.08	23
15	QPSK	36	20	21.90	22.10	22.11	
15	QPSK	36	39	21.87	22.19	22.15	
15	QPSK	75	0	22.07	22.13	22.25	23
15	16QAM	1	0	22.10	22.18	22.29	
15	16QAM	1	37	21.95	22.11	21.99	
15	16QAM	1	74	22.03	21.93	22.20	23
15	16QAM	36	0	22.12	22.14	22.24	
15	16QAM	36	20	21.89	22.09	22.10	
15	16QAM	36	39	21.77	22.13	22.05	23
15	16QAM	75	0	22.02	22.18	22.16	
15	64QAM	1	0	21.93	22.22	22.28	
15	64QAM	1	37	22.03	21.96	21.99	23
15	64QAM	1	74	21.96	22.03	21.98	
15	64QAM	36	0	21.07	21.10	21.01	
15	64QAM	36	20	20.91	20.88	20.90	22
15	64QAM	36	39	20.86	21.00	21.03	
15	64QAM	75	0	21.02	21.17	21.07	
15	256QAM	1	0	18.95	18.91	19.13	20
15	256QAM	1	37	18.94	18.79	18.95	
15	256QAM	1	74	18.79	18.64	18.80	
15	256QAM	36	0	18.75	18.70	18.82	20
15	256QAM	36	20	18.69	18.53	18.79	
15	256QAM	36	39	18.75	18.62	18.66	
15	256QAM	75	0	18.74	18.44	18.62	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	



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10	QPSK	1	0	22.13	22.21	22.29	23
10	QPSK	1	25	22.00	22.03	22.18	
10	QPSK	1	49	22.07	21.98	22.13	
10	QPSK	25	0	22.09	22.19	22.26	23
10	QPSK	25	12	21.96	22.09	22.12	
10	QPSK	25	25	21.82	22.11	22.18	
10	QPSK	50	0	21.95	22.26	22.14	23
10	16QAM	1	0	22.10	22.13	22.30	
10	16QAM	1	25	21.95	22.05	21.97	
10	16QAM	1	49	21.91	21.97	22.08	23
10	16QAM	25	0	22.04	22.11	22.19	
10	16QAM	25	12	21.97	22.04	22.11	
10	16QAM	25	25	21.81	22.15	21.97	23
10	16QAM	50	0	21.96	22.22	22.02	
10	64QAM	1	0	22.10	22.17	22.30	
10	64QAM	1	25	21.92	21.89	21.92	23
10	64QAM	1	49	21.95	22.02	21.92	
10	64QAM	25	0	21.07	21.02	21.19	
10	64QAM	25	12	20.82	21.05	20.96	22
10	64QAM	25	25	20.80	21.16	20.89	
10	64QAM	50	0	20.92	21.14	20.95	
10	256QAM	1	0	18.89	18.83	19.05	20
10	256QAM	1	25	18.81	18.72	18.90	
10	256QAM	1	49	18.88	18.82	18.90	
10	256QAM	25	0	18.78	18.66	18.70	20
10	256QAM	25	12	18.82	18.60	18.85	
10	256QAM	25	25	18.69	18.61	18.75	
10	256QAM	50	0	18.59	18.37	18.62	Tune-up limit (dBm)
Channel				42115	42590	43065	
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	22.09	22.25	22.27	23
5	QPSK	1	12	21.92	22.02	22.03	
5	QPSK	1	24	21.91	22.08	22.23	
5	QPSK	12	0	22.14	22.22	22.10	23
5	QPSK	12	7	21.97	22.19	22.21	
5	QPSK	12	13	21.98	22.26	22.21	
5	QPSK	25	0	21.96	22.14	22.14	23
5	16QAM	1	0	22.00	22.08	22.20	
5	16QAM	1	12	21.91	22.04	22.11	
5	16QAM	1	24	21.95	21.89	22.15	23
5	16QAM	12	0	22.02	22.22	22.08	
5	16QAM	12	7	21.95	21.96	21.95	
5	16QAM	12	13	21.71	22.12	21.92	23
5	16QAM	25	0	21.97	22.11	21.99	
5	64QAM	1	0	22.09	22.06	22.15	
5	64QAM	1	12	21.88	21.93	21.89	23
5	64QAM	1	24	21.81	21.91	21.97	
5	64QAM	12	0	21.11	21.07	21.01	
5	64QAM	12	7	20.80	20.99	20.88	22
5	64QAM	12	13	20.70	21.14	21.04	
5	64QAM	25	0	20.94	21.21	20.95	
5	256QAM	1	0	18.94	18.99	19.01	20
5	256QAM	1	12	18.93	18.82	18.92	
5	256QAM	1	24	18.96	18.75	18.82	
5	256QAM	12	0	18.70	18.70	18.88	20
5	256QAM	12	7	18.74	18.54	18.85	
5	256QAM	12	13	18.70	18.54	18.71	
5	256QAM	25	0	18.58	18.52	18.66	



◀LTE Band 42 MIMO2 Ant State 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				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	16.92	16.77	16.93	17
20	QPSK	1	49	16.90	16.69	16.91	
20	QPSK	1	99	16.77	16.61	16.88	
20	QPSK	50	0	15.99	15.89	16.01	16
20	QPSK	50	24	15.97	15.85	15.98	
20	QPSK	50	50	15.91	15.77	15.99	
20	QPSK	100	0	15.95	15.81	15.97	
20	16QAM	1	0	15.83	15.77	15.71	16
20	16QAM	1	49	15.77	15.63	15.86	
20	16QAM	1	99	15.67	15.55	15.84	
20	16QAM	50	0	14.98	14.79	14.88	15
20	16QAM	50	24	14.99	14.81	14.98	
20	16QAM	50	50	14.91	14.77	15.00	
20	16QAM	100	0	14.96	14.81	14.96	
20	64QAM	1	0	14.95	14.88	14.71	15
20	64QAM	1	49	15.00	14.67	14.88	
20	64QAM	1	99	14.72	14.68	15.00	
20	64QAM	50	0	13.99	13.76	13.87	14
20	64QAM	50	24	13.96	13.84	14.00	
20	64QAM	50	50	13.90	13.74	13.99	
20	64QAM	100	0	13.93	13.83	13.97	
20	256QAM	1	0	11.90	11.87	11.79	12
20	256QAM	1	49	11.82	11.65	11.79	
20	256QAM	1	99	11.76	11.73	12.00	
20	256QAM	50	0	12.00	11.82	11.89	12
20	256QAM	50	24	11.99	11.86	11.92	
20	256QAM	50	50	11.93	11.81	11.93	
20	256QAM	100	0	11.98	11.84	11.93	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	16.75	16.58	16.50	17
15	QPSK	1	37	16.64	16.68	16.79	
15	QPSK	1	74	16.51	16.60	16.65	
15	QPSK	36	0	15.92	15.67	15.68	16
15	QPSK	36	20	15.90	15.72	15.82	
15	QPSK	36	39	15.85	15.71	15.70	
15	QPSK	75	0	15.95	15.66	15.77	
15	16QAM	1	0	15.63	15.65	15.42	16
15	16QAM	1	37	15.67	15.59	15.65	
15	16QAM	1	74	15.62	15.50	15.70	
15	16QAM	36	0	14.89	14.59	14.72	15
15	16QAM	36	20	14.86	14.80	14.88	
15	16QAM	36	39	14.72	14.71	14.92	
15	16QAM	75	0	14.94	14.62	14.78	
15	64QAM	1	0	14.91	14.78	14.52	15
15	64QAM	1	37	14.95	14.47	14.66	
15	64QAM	1	74	14.67	14.56	14.85	
15	64QAM	36	0	13.87	13.72	13.69	14
15	64QAM	36	20	13.87	13.65	13.80	
15	64QAM	36	39	13.84	13.54	13.79	
15	64QAM	75	0	13.90	13.72	13.85	
15	256QAM	1	0	11.85	11.69	11.53	12
15	256QAM	1	37	11.63	11.49	11.69	
15	256QAM	1	74	11.71	11.58	11.73	
15	256QAM	36	0	11.89	11.66	11.70	12
15	256QAM	36	20	11.81	11.80	11.81	
15	256QAM	36	39	11.75	11.80	11.84	
15	256QAM	75	0	11.82	11.64	11.81	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	



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10	QPSK	1	0	16.68	16.60	16.43	17
10	QPSK	1	25	16.63	16.56	16.70	
10	QPSK	1	49	16.55	16.48	16.74	
10	QPSK	25	0	15.99	15.76	15.56	16
10	QPSK	25	12	15.93	15.76	15.73	
10	QPSK	25	25	15.78	15.59	15.87	
10	QPSK	50	0	15.92	15.65	15.79	16
10	16QAM	1	0	15.79	15.72	15.46	
10	16QAM	1	25	15.72	15.61	15.71	
10	16QAM	1	49	15.53	15.43	15.56	15
10	16QAM	25	0	14.91	14.66	14.77	
10	16QAM	25	12	14.85	14.64	14.72	
10	16QAM	25	25	14.88	14.72	14.79	15
10	16QAM	50	0	14.76	14.70	14.84	
10	64QAM	1	0	14.80	14.74	14.56	
10	64QAM	1	25	15.00	14.66	14.60	14
10	64QAM	1	49	14.59	14.68	14.90	
10	64QAM	25	0	13.87	13.71	13.64	
10	64QAM	25	12	13.84	13.78	13.70	12
10	64QAM	25	25	13.80	13.58	13.84	
10	64QAM	50	0	13.80	13.71	13.85	
10	256QAM	1	0	11.81	11.74	11.68	12
10	256QAM	1	25	11.82	11.57	11.54	
10	256QAM	1	49	11.68	11.63	11.72	
10	256QAM	25	0	12.00	11.65	11.62	12
10	256QAM	25	12	11.97	11.71	11.77	
10	256QAM	25	25	11.80	11.68	11.84	
10	256QAM	50	0	11.82	11.68	11.83	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	16.70	16.62	16.43	17
5	QPSK	1	12	16.66	16.51	16.62	
5	QPSK	1	24	16.47	16.45	16.73	
5	QPSK	12	0	15.91	15.70	15.60	16
5	QPSK	12	7	15.90	15.78	15.72	
5	QPSK	12	13	15.82	15.75	15.87	
5	QPSK	25	0	15.93	15.79	15.75	16
5	16QAM	1	0	15.70	15.76	15.50	
5	16QAM	1	12	15.70	15.51	15.70	
5	16QAM	1	24	15.48	15.44	15.73	15
5	16QAM	12	0	14.92	14.73	14.76	
5	16QAM	12	7	14.81	14.66	14.76	
5	16QAM	12	13	14.90	14.72	14.91	15
5	16QAM	25	0	14.84	14.62	14.84	
5	64QAM	1	0	14.78	14.78	14.42	
5	64QAM	1	12	14.87	14.64	14.59	14
5	64QAM	1	24	14.70	14.53	14.79	
5	64QAM	12	0	13.81	13.60	13.63	
5	64QAM	12	7	13.82	13.65	13.88	12
5	64QAM	12	13	13.76	13.67	13.82	
5	64QAM	25	0	13.73	13.73	13.87	
5	256QAM	1	0	11.71	11.87	11.67	12
5	256QAM	1	12	11.65	11.63	11.59	
5	256QAM	1	24	11.74	11.57	11.75	
5	256QAM	12	0	11.85	11.72	11.62	12
5	256QAM	12	7	11.82	11.75	11.87	
5	256QAM	12	13	11.84	11.72	11.86	
5	256QAM	25	0	11.90	11.76	11.73	



LTE Band 42 HPUE MIMO2 Ant State 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				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	22.39	22.19	23.11	
20	QPSK	1	49	22.38	22.17	23.08	23.5
20	QPSK	1	99	22.29	21.92	23.01	
20	QPSK	50	0	21.34	20.93	21.98	
20	QPSK	50	24	21.31	20.86	21.92	22.5
20	QPSK	50	50	21.23	20.80	21.93	
20	QPSK	100	0	21.27	20.86	21.95	
20	16QAM	1	0	21.35	20.91	21.77	22.5
20	16QAM	1	49	21.30	21.00	22.01	
20	16QAM	1	99	21.18	20.84	22.04	
20	16QAM	50	0	20.34	19.82	20.82	21.5
20	16QAM	50	24	20.30	19.89	20.91	
20	16QAM	50	50	20.25	19.82	20.97	
20	16QAM	100	0	20.30	19.85	20.94	21.5
20	64QAM	1	0	20.37	20.09	20.91	
20	64QAM	1	49	20.33	20.08	21.04	
20	64QAM	1	99	20.27	20.06	21.01	20.5
20	64QAM	50	0	19.32	18.83	19.80	
20	64QAM	50	24	19.30	18.85	19.92	
20	64QAM	50	50	19.22	18.80	19.92	20.5
20	64QAM	100	0	19.29	18.86	19.93	
20	256QAM	1	0	17.49	17.04	17.90	
20	256QAM	1	49	17.41	16.97	17.99	18.5
20	256QAM	1	99	17.22	16.85	18.12	
20	256QAM	50	0	17.35	16.84	17.85	
20	256QAM	50	24	17.33	16.87	17.93	18.5
20	256QAM	50	50	17.26	16.83	17.97	
20	256QAM	100	0	17.29	16.91	17.95	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	22.38	22.07	22.93	
15	QPSK	1	37	22.27	22.02	23.09	23.5
15	QPSK	1	74	22.21	21.88	23.10	
15	QPSK	36	0	21.21	20.80	21.68	
15	QPSK	36	20	21.18	20.75	21.87	22.5
15	QPSK	36	39	21.20	20.76	21.97	
15	QPSK	75	0	21.12	20.78	21.80	
15	16QAM	1	0	21.15	20.85	21.72	22.5
15	16QAM	1	37	21.10	20.98	21.82	
15	16QAM	1	74	21.09	20.71	22.02	
15	16QAM	36	0	20.27	19.64	20.79	21.5
15	16QAM	36	20	20.21	19.89	20.84	
15	16QAM	36	39	20.15	19.64	20.90	
15	16QAM	75	0	20.13	19.70	20.88	21.5
15	64QAM	1	0	20.30	19.97	20.91	
15	64QAM	1	37	20.32	20.05	20.85	
15	64QAM	1	74	20.09	19.88	20.82	21.5
15	64QAM	36	0	19.19	18.69	19.80	
15	64QAM	36	20	19.18	18.83	19.86	
15	64QAM	36	39	19.14	18.71	19.72	20.5
15	64QAM	75	0	19.17	18.75	19.90	
15	256QAM	1	0	17.41	17.02	17.82	
15	256QAM	1	37	17.33	16.83	17.82	18.5
15	256QAM	1	74	17.09	16.79	18.02	
15	256QAM	36	0	17.17	16.83	17.85	
15	256QAM	36	20	17.26	16.71	17.89	18.5
15	256QAM	36	39	17.09	16.75	17.85	
15	256QAM	75	0	17.15	16.81	17.83	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	



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10	QPSK	1	0	22.20	21.89	22.86	23.5
10	QPSK	1	25	22.36	22.04	23.05	
10	QPSK	1	49	22.09	21.76	23.02	
10	QPSK	25	0	21.25	20.68	21.79	22.5
10	QPSK	25	12	21.24	20.84	21.85	
10	QPSK	25	25	21.17	20.73	21.98	
10	QPSK	50	0	21.22	20.75	21.95	22.5
10	16QAM	1	0	21.30	20.90	21.73	
10	16QAM	1	25	21.15	21.00	21.92	
10	16QAM	1	49	21.03	20.80	21.86	21.5
10	16QAM	25	0	20.33	19.81	20.73	
10	16QAM	25	12	20.21	19.86	20.88	
10	16QAM	25	25	20.05	19.72	20.80	21.5
10	16QAM	50	0	20.27	19.79	20.77	
10	64QAM	1	0	20.18	20.00	20.89	
10	64QAM	1	25	20.13	20.01	20.87	20.5
10	64QAM	1	49	20.10	19.88	20.84	
10	64QAM	25	0	19.19	18.80	19.60	
10	64QAM	25	12	19.30	18.75	19.87	18.5
10	64QAM	25	25	19.17	18.77	19.73	
10	64QAM	50	0	19.29	18.75	19.74	
10	256QAM	1	0	17.39	16.99	17.73	18.5
10	256QAM	1	25	17.37	16.81	17.87	
10	256QAM	1	49	17.06	16.83	18.02	
10	256QAM	25	0	17.23	16.68	17.73	18.5
10	256QAM	25	12	17.29	16.80	17.93	
10	256QAM	25	25	17.22	16.63	17.84	
10	256QAM	50	0	17.16	16.80	17.75	Tune-up limit (dBm)
Channel				42115	42590	43065	
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	22.35	21.97	22.80	23.5
5	QPSK	1	12	22.38	22.04	22.98	
5	QPSK	1	24	22.26	21.91	22.92	
5	QPSK	12	0	21.25	20.82	21.71	22.5
5	QPSK	12	7	21.26	20.69	21.76	
5	QPSK	12	13	21.20	20.77	21.86	
5	QPSK	25	0	21.10	20.86	21.84	22.5
5	16QAM	1	0	21.22	20.89	21.71	
5	16QAM	1	12	21.22	20.97	21.97	
5	16QAM	1	24	20.98	20.69	21.97	21.5
5	16QAM	12	0	20.26	19.80	20.66	
5	16QAM	12	7	20.22	19.79	20.72	
5	16QAM	12	13	20.25	19.70	20.86	21.5
5	16QAM	25	0	20.19	19.74	20.86	
5	64QAM	1	0	20.20	20.08	20.77	
5	64QAM	1	12	20.31	20.05	21.03	20.5
5	64QAM	1	24	20.27	19.91	20.88	
5	64QAM	12	0	19.25	18.83	19.75	
5	64QAM	12	7	19.27	18.71	19.73	18.5
5	64QAM	12	13	19.06	18.72	19.75	
5	64QAM	25	0	19.26	18.81	19.91	
5	256QAM	1	0	17.46	16.96	17.81	18.5
5	256QAM	1	12	17.28	16.89	17.88	
5	256QAM	1	24	17.07	16.67	18.05	
5	256QAM	12	0	17.30	16.83	17.79	18.5
5	256QAM	12	7	17.30	16.77	17.78	
5	256QAM	12	13	17.22	16.81	17.95	
5	256QAM	25	0	17.23	16.73	17.89	



<LTE Band 42 HPUE MIMO2 Ant State 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				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	19.38	19.12	19.30	
20	QPSK	1	49	19.35	19.09	19.09	20
20	QPSK	1	99	19.30	18.96	19.15	
20	QPSK	50	0	18.34	17.88	17.93	
20	QPSK	50	24	18.26	17.85	17.92	19
20	QPSK	50	50	18.20	17.82	17.86	
20	QPSK	100	0	18.26	17.87	17.95	
20	16QAM	1	0	18.29	17.86	17.80	19
20	16QAM	1	49	18.28	17.94	18.00	
20	16QAM	1	99	18.15	17.84	18.05	
20	16QAM	50	0	17.33	16.81	16.82	18
20	16QAM	50	24	17.29	16.87	16.93	
20	16QAM	50	50	17.21	16.79	16.95	
20	16QAM	100	0	17.25	16.88	16.95	18
20	64QAM	1	0	17.45	16.95	16.93	
20	64QAM	1	49	17.37	17.06	17.20	
20	64QAM	1	99	17.29	16.93	17.20	17
20	64QAM	50	0	16.30	15.84	15.81	
20	64QAM	50	24	16.27	15.89	15.92	
20	64QAM	50	50	16.15	15.82	15.98	15
20	64QAM	100	0	16.24	15.87	15.92	
20	256QAM	1	0	14.28	13.98	13.88	
20	256QAM	1	49	14.32	13.97	13.96	15
20	256QAM	1	99	14.30	13.84	14.04	
20	256QAM	50	0	14.31	13.82	13.79	
20	256QAM	50	24	14.25	13.87	13.93	15
20	256QAM	50	50	14.17	13.80	13.95	
20	256QAM	100	0	14.23	13.84	13.93	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	19.22	19.03	18.89	
15	QPSK	1	37	19.30	18.93	19.05	20
15	QPSK	1	74	19.19	18.84	19.11	
15	QPSK	36	0	18.14	17.72	17.65	
15	QPSK	36	20	18.11	17.84	17.89	19
15	QPSK	36	39	18.10	17.77	17.86	
15	QPSK	75	0	18.12	17.73	17.89	
15	16QAM	1	0	18.26	17.81	17.70	19
15	16QAM	1	37	18.16	17.79	17.96	
15	16QAM	1	74	18.02	17.76	17.98	
15	16QAM	36	0	17.30	16.65	16.63	18
15	16QAM	36	20	17.19	16.74	16.92	
15	16QAM	36	39	17.05	16.79	16.78	
15	16QAM	75	0	17.08	16.84	16.83	18
15	64QAM	1	0	17.39	16.78	16.84	
15	64QAM	1	37	17.29	17.02	17.17	
15	64QAM	1	74	17.23	16.93	17.12	17
15	64QAM	36	0	16.13	15.77	15.67	
15	64QAM	36	20	16.08	15.88	15.73	
15	64QAM	36	39	16.04	15.74	15.91	15
15	64QAM	75	0	16.23	15.77	15.92	
15	256QAM	1	0	14.19	13.94	13.75	
15	256QAM	1	37	14.22	13.89	13.94	15
15	256QAM	1	74	14.29	13.81	13.98	
15	256QAM	36	0	14.25	13.82	13.60	
15	256QAM	36	20	14.09	13.75	13.76	15
15	256QAM	36	39	14.13	13.71	13.78	
15	256QAM	75	0	14.07	13.77	13.83	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	



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10	QPSK	1	0	19.36	18.97	18.93	20
10	QPSK	1	25	19.29	18.89	18.93	
10	QPSK	1	49	19.29	18.82	19.11	
10	QPSK	25	0	18.27	17.72	17.66	19
10	QPSK	25	12	18.07	17.83	17.79	
10	QPSK	25	25	18.03	17.80	17.88	
10	QPSK	50	0	18.18	17.69	17.77	19
10	16QAM	1	0	18.29	17.67	17.73	
10	16QAM	1	25	18.23	17.86	17.99	
10	16QAM	1	49	18.07	17.83	18.05	18
10	16QAM	25	0	17.29	16.77	16.78	
10	16QAM	25	12	17.25	16.83	16.90	
10	16QAM	25	25	17.18	16.79	16.76	18
10	16QAM	50	0	17.21	16.71	16.78	
10	64QAM	1	0	17.33	16.93	16.79	
10	64QAM	1	25	17.24	17.02	17.11	17
10	64QAM	1	49	17.26	16.91	17.15	
10	64QAM	25	0	16.16	15.75	15.75	
10	64QAM	25	12	16.12	15.70	15.80	15
10	64QAM	25	25	16.12	15.66	15.78	
10	64QAM	50	0	16.06	15.72	15.81	
10	256QAM	1	0	14.12	13.86	13.80	15
10	256QAM	1	25	14.26	13.77	13.96	
10	256QAM	1	49	14.26	13.83	14.02	
10	256QAM	25	0	14.25	13.71	13.72	15
10	256QAM	25	12	14.17	13.81	13.87	
10	256QAM	25	25	14.07	13.77	13.81	
10	256QAM	50	0	14.09	13.74	13.91	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	19.33	19.03	18.89	20
5	QPSK	1	12	19.22	18.95	18.98	
5	QPSK	1	24	19.25	18.83	19.00	
5	QPSK	12	0	18.17	17.71	17.78	19
5	QPSK	12	7	18.10	17.85	17.86	
5	QPSK	12	13	18.01	17.82	17.83	
5	QPSK	25	0	18.15	17.74	17.90	19
5	16QAM	1	0	18.28	17.67	17.69	
5	16QAM	1	12	18.17	17.77	17.92	
5	16QAM	1	24	18.11	17.84	17.87	18
5	16QAM	12	0	17.30	16.67	16.66	
5	16QAM	12	7	17.13	16.77	16.86	
5	16QAM	12	13	17.06	16.60	16.93	18
5	16QAM	25	0	17.12	16.71	16.75	
5	64QAM	1	0	17.37	16.90	16.90	
5	64QAM	1	12	17.17	16.99	17.14	17
5	64QAM	1	24	17.19	16.74	17.07	
5	64QAM	12	0	16.12	15.76	15.62	
5	64QAM	12	7	16.08	15.83	15.88	15
5	64QAM	12	13	16.13	15.66	15.80	
5	64QAM	25	0	16.17	15.71	15.85	
5	256QAM	1	0	14.10	13.98	13.77	15
5	256QAM	1	12	14.23	13.81	13.86	
5	256QAM	1	24	14.24	13.82	13.85	
5	256QAM	12	0	14.21	13.70	13.70	15
5	256QAM	12	7	14.15	13.84	13.88	
5	256QAM	12	13	14.11	13.79	13.79	
5	256QAM	25	0	14.05	13.68	13.86	



<LTE Band 43 Main Ant State 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				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	19.46	19.54	19.57	20
20	QPSK	1	49	19.36	19.46	19.41	
20	QPSK	1	99	19.26	19.37	19.39	
20	QPSK	50	0	19.37	19.50	19.51	20
20	QPSK	50	24	19.34	19.48	19.50	
20	QPSK	50	50	19.36	19.44	19.41	
20	QPSK	100	0	19.30	19.43	19.46	
20	16QAM	1	0	19.45	19.44	19.37	20
20	16QAM	1	49	19.40	19.38	19.50	
20	16QAM	1	99	19.34	19.37	19.32	
20	16QAM	50	0	19.16	19.49	19.38	20
20	16QAM	50	24	19.30	19.39	19.40	
20	16QAM	50	50	19.34	19.35	19.43	
20	16QAM	100	0	19.36	19.47	19.38	
20	64QAM	1	0	19.28	19.39	19.41	20
20	64QAM	1	49	19.41	19.31	19.37	
20	64QAM	1	99	19.36	19.29	19.44	
20	64QAM	50	0	19.33	19.41	19.23	20
20	64QAM	50	24	19.09	19.29	19.32	
20	64QAM	50	50	19.21	19.25	19.30	
20	64QAM	100	0	19.31	19.40	19.38	
20	256QAM	1	0	18.26	18.43	18.41	19
20	256QAM	1	49	18.45	18.38	18.42	
20	256QAM	1	99	18.40	18.37	18.45	
20	256QAM	50	0	18.36	18.37	18.30	19
20	256QAM	50	24	18.09	18.43	18.14	
20	256QAM	50	50	18.33	18.34	18.33	
20	256QAM	100	0	18.21	18.35	18.35	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	19.45	19.48	19.55	20
15	QPSK	1	37	19.36	19.38	19.37	
15	QPSK	1	74	19.26	19.31	19.29	
15	QPSK	36	0	19.35	19.49	19.43	20
15	QPSK	36	20	19.30	19.45	19.49	
15	QPSK	36	39	19.34	19.44	19.40	
15	QPSK	75	0	19.25	19.36	19.42	
15	16QAM	1	0	19.38	19.41	19.36	20
15	16QAM	1	37	19.32	19.31	19.41	
15	16QAM	1	74	19.31	19.32	19.23	
15	16QAM	36	0	19.09	19.45	19.36	20
15	16QAM	36	20	19.22	19.36	19.37	
15	16QAM	36	39	19.31	19.33	19.39	
15	16QAM	75	0	19.33	19.44	19.29	
15	64QAM	1	0	19.26	19.35	19.38	20
15	64QAM	1	37	19.36	19.24	19.36	
15	64QAM	1	74	19.26	19.23	19.41	
15	64QAM	36	0	19.23	19.41	19.15	20
15	64QAM	36	20	19.05	19.24	19.22	
15	64QAM	36	39	19.16	19.23	19.30	
15	64QAM	75	0	19.28	19.31	19.33	
15	256QAM	1	0	18.16	18.35	18.33	19
15	256QAM	1	37	18.40	18.38	18.36	
15	256QAM	1	74	18.30	18.33	18.37	
15	256QAM	36	0	18.28	18.35	18.28	19
15	256QAM	36	20	18.07	18.43	18.07	
15	256QAM	36	39	18.24	18.25	18.27	
15	256QAM	75	0	18.17	18.34	18.28	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	



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10	QPSK	1	0	19.41	19.45	19.47	20
10	QPSK	1	25	19.31	19.42	19.37	
10	QPSK	1	49	19.16	19.32	19.35	
10	QPSK	25	0	19.36	19.48	19.45	20
10	QPSK	25	12	19.26	19.38	19.46	
10	QPSK	25	25	19.29	19.39	19.39	
10	QPSK	50	0	19.22	19.33	19.41	20
10	16QAM	1	0	19.41	19.42	19.29	
10	16QAM	1	25	19.39	19.32	19.50	
10	16QAM	1	49	19.25	19.34	19.32	20
10	16QAM	25	0	19.13	19.44	19.35	
10	16QAM	25	12	19.29	19.29	19.39	
10	16QAM	25	25	19.26	19.27	19.35	20
10	16QAM	50	0	19.30	19.37	19.31	
10	64QAM	1	0	19.21	19.32	19.40	
10	64QAM	1	25	19.40	19.22	19.35	20
10	64QAM	1	49	19.34	19.29	19.41	
10	64QAM	25	0	19.32	19.36	19.14	
10	64QAM	25	12	19.00	19.23	19.26	20
10	64QAM	25	25	19.18	19.16	19.21	
10	64QAM	50	0	19.22	19.34	19.34	
10	256QAM	1	0	18.19	18.40	18.41	19
10	256QAM	1	25	18.36	18.31	18.39	
10	256QAM	1	49	18.40	18.29	18.45	
10	256QAM	25	0	18.32	18.33	18.23	19
10	256QAM	25	12	18.05	18.41	18.14	
10	256QAM	25	25	18.29	18.31	18.32	
10	256QAM	50	0	18.18	18.25	18.26	
Channel				44615	45090	45565	Tune-up limit (dBm)
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	19.41	19.44	19.51	20
5	QPSK	1	12	19.33	19.36	19.36	
5	QPSK	1	24	19.16	19.36	19.39	
5	QPSK	12	0	19.27	19.49	19.42	20
5	QPSK	12	7	19.27	19.48	19.47	
5	QPSK	12	13	19.35	19.43	19.32	
5	QPSK	25	0	19.30	19.33	19.39	20
5	16QAM	1	0	19.45	19.41	19.30	
5	16QAM	1	12	19.33	19.30	19.41	
5	16QAM	1	24	19.28	19.34	19.32	20
5	16QAM	12	0	19.07	19.49	19.31	
5	16QAM	12	7	19.28	19.37	19.38	
5	16QAM	12	13	19.32	19.30	19.41	20
5	16QAM	25	0	19.34	19.47	19.37	
5	64QAM	1	0	19.25	19.30	19.35	
5	64QAM	1	12	19.32	19.21	19.33	20
5	64QAM	1	24	19.36	19.20	19.42	
5	64QAM	12	0	19.33	19.38	19.20	
5	64QAM	12	7	19.05	19.23	19.25	20
5	64QAM	12	13	19.12	19.15	19.27	
5	64QAM	25	0	19.24	19.39	19.36	
5	256QAM	1	0	18.24	18.34	18.38	19
5	256QAM	1	12	18.39	18.30	18.36	
5	256QAM	1	24	18.34	18.34	18.43	
5	256QAM	12	0	18.34	18.30	18.25	19
5	256QAM	12	7	18.03	18.39	18.14	
5	256QAM	12	13	18.31	18.32	18.32	
5	256QAM	25	0	18.19	18.31	18.33	



◀LTE Band 43 MIMO2 Ant State 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				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	19.98	19.99	19.95	20
20	QPSK	1	49	19.89	19.90	19.78	
20	QPSK	1	99	19.84	19.86	19.51	
20	QPSK	50	0	18.88	18.95	18.81	19
20	QPSK	50	24	18.79	18.92	18.67	
20	QPSK	50	50	18.87	18.88	18.64	
20	QPSK	100	0	18.77	18.92	18.66	
20	16QAM	1	0	18.84	18.79	18.65	19
20	16QAM	1	49	18.85	18.89	18.60	
20	16QAM	1	99	18.84	18.85	18.58	
20	16QAM	50	0	17.79	17.85	17.70	18
20	16QAM	50	24	17.81	17.92	17.67	
20	16QAM	50	50	17.84	17.91	17.62	
20	16QAM	100	0	17.80	17.91	17.67	
20	64QAM	1	0	17.89	17.94	17.77	18
20	64QAM	1	49	17.91	18.00	17.72	
20	64QAM	1	99	17.85	17.88	17.59	
20	64QAM	50	0	16.78	16.81	16.69	17
20	64QAM	50	24	16.82	16.89	16.71	
20	64QAM	50	50	16.87	16.88	16.63	
20	64QAM	100	0	16.74	16.94	16.64	
20	256QAM	1	0	14.71	14.73	14.64	15
20	256QAM	1	49	14.89	14.84	14.64	
20	256QAM	1	99	14.72	14.77	14.54	
20	256QAM	50	0	14.78	14.78	14.70	15
20	256QAM	50	24	14.79	14.93	14.67	
20	256QAM	50	50	14.85	14.88	14.62	
20	256QAM	100	0	14.77	14.89	14.66	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	19.97	19.96	19.62	20
15	QPSK	1	37	19.71	19.88	19.59	
15	QPSK	1	74	19.78	19.69	19.51	
15	QPSK	36	0	18.74	18.77	18.80	19
15	QPSK	36	20	18.79	18.81	18.65	
15	QPSK	36	39	18.81	18.80	18.50	
15	QPSK	75	0	18.69	18.75	18.46	
15	16QAM	1	0	18.83	18.70	18.45	19
15	16QAM	1	37	18.70	18.75	18.60	
15	16QAM	1	74	18.68	18.84	18.48	
15	16QAM	36	0	17.59	17.76	17.66	18
15	16QAM	36	20	17.76	17.90	17.66	
15	16QAM	36	39	17.68	17.78	17.43	
15	16QAM	75	0	17.75	17.85	17.58	
15	64QAM	1	0	17.72	17.78	17.63	18
15	64QAM	1	37	17.71	17.99	17.67	
15	64QAM	1	74	17.68	17.83	17.49	
15	64QAM	36	0	16.74	16.66	16.53	17
15	64QAM	36	20	16.81	16.69	16.62	
15	64QAM	36	39	16.77	16.69	16.61	
15	64QAM	75	0	16.72	16.79	16.52	
15	256QAM	1	0	14.60	14.63	14.57	15
15	256QAM	1	37	14.88	14.77	14.58	
15	256QAM	1	74	14.64	14.73	14.48	
15	256QAM	36	0	14.70	14.61	14.58	15
15	256QAM	36	20	14.60	14.80	14.48	
15	256QAM	36	39	14.84	14.81	14.50	
15	256QAM	75	0	14.72	14.80	14.48	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	



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Report No. : FA272001

10	QPSK	1	0	19.83	19.83	19.61	20
10	QPSK	1	25	19.86	19.75	19.67	
10	QPSK	1	49	19.78	19.85	19.45	
10	QPSK	25	0	18.70	18.90	18.70	19
10	QPSK	25	12	18.79	18.80	18.63	
10	QPSK	25	25	18.87	18.86	18.46	
10	QPSK	50	0	18.74	18.81	18.49	19
10	16QAM	1	0	18.76	18.72	18.64	
10	16QAM	1	25	18.67	18.80	18.47	
10	16QAM	1	49	18.84	18.68	18.38	18
10	16QAM	25	0	17.70	17.81	17.68	
10	16QAM	25	12	17.74	17.72	17.54	
10	16QAM	25	25	17.82	17.77	17.51	18
10	16QAM	50	0	17.61	17.76	17.60	
10	64QAM	1	0	17.70	17.82	17.66	
10	64QAM	1	25	17.71	17.90	17.52	17
10	64QAM	1	49	17.75	17.88	17.50	
10	64QAM	25	0	16.62	16.72	16.59	
10	64QAM	25	12	16.62	16.86	16.71	15
10	64QAM	25	25	16.81	16.84	16.53	
10	64QAM	50	0	16.56	16.79	16.62	
10	256QAM	1	0	14.59	14.56	14.61	15
10	256QAM	1	25	14.79	14.80	14.51	
10	256QAM	1	49	14.56	14.62	14.44	
10	256QAM	25	0	14.58	14.61	14.67	15
10	256QAM	25	12	14.65	14.73	14.63	
10	256QAM	25	25	14.75	14.80	14.57	
10	256QAM	50	0	14.64	14.76	14.48	
Channel				44615	45090	45565	Tune-up limit (dBm)
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	19.93	19.94	19.77	20
5	QPSK	1	12	19.88	19.83	19.70	
5	QPSK	1	24	19.75	19.84	19.43	
5	QPSK	12	0	18.78	18.90	18.65	19
5	QPSK	12	7	18.70	18.72	18.59	
5	QPSK	12	13	18.70	18.70	18.45	
5	QPSK	25	0	18.77	18.92	18.65	19
5	16QAM	1	0	18.84	18.72	18.55	
5	16QAM	1	12	18.78	18.80	18.46	
5	16QAM	1	24	18.67	18.83	18.50	18
5	16QAM	12	0	17.65	17.69	17.55	
5	16QAM	12	7	17.79	17.92	17.54	
5	16QAM	12	13	17.67	17.84	17.62	18
5	16QAM	25	0	17.65	17.80	17.61	
5	64QAM	1	0	17.72	17.82	17.57	
5	64QAM	1	12	17.81	17.84	17.59	17
5	64QAM	1	24	17.77	17.86	17.40	
5	64QAM	12	0	16.77	16.77	16.51	
5	64QAM	12	7	16.71	16.76	16.53	15
5	64QAM	12	13	16.75	16.80	16.63	
5	64QAM	25	0	16.63	16.87	16.51	
5	256QAM	1	0	14.52	14.66	14.60	15
5	256QAM	1	12	14.85	14.65	14.63	
5	256QAM	1	24	14.56	14.59	14.46	
5	256QAM	12	0	14.77	14.67	14.67	15
5	256QAM	12	7	14.59	14.90	14.47	
5	256QAM	12	13	14.76	14.80	14.42	
5	256QAM	25	0	14.60	14.79	14.53	



<LTE Band 43 Main Ant State 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				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	20.71	20.85	20.73	21
20	QPSK	1	49	20.54	20.71	20.50	
20	QPSK	1	99	20.54	20.59	20.52	
20	QPSK	50	0	20.59	20.76	20.67	21
20	QPSK	50	24	20.65	20.71	20.51	
20	QPSK	50	50	20.46	20.66	20.54	
20	QPSK	100	0	20.72	20.73	20.64	
20	16QAM	1	0	20.62	20.63	20.52	21
20	16QAM	1	49	20.57	20.53	20.69	
20	16QAM	1	99	20.44	20.62	20.51	
20	16QAM	50	0	20.40	20.63	20.50	21
20	16QAM	50	24	20.65	20.59	20.75	
20	16QAM	50	50	20.61	20.52	20.64	
20	16QAM	100	0	20.52	20.66	20.53	
20	64QAM	1	0	20.72	20.61	20.69	21
20	64QAM	1	49	20.44	20.53	20.63	
20	64QAM	1	99	20.54	20.74	20.47	
20	64QAM	50	0	20.41	20.52	20.45	21
20	64QAM	50	24	20.33	20.60	20.45	
20	64QAM	50	50	20.45	20.62	20.57	
20	64QAM	100	0	20.55	20.66	20.63	
20	256QAM	1	0	18.30	18.49	18.49	20
20	256QAM	1	49	18.24	18.44	18.23	
20	256QAM	1	99	18.07	18.29	18.33	
20	256QAM	50	0	18.18	18.52	18.46	20
20	256QAM	50	24	18.16	18.33	18.32	
20	256QAM	50	50	18.29	18.31	18.32	
20	256QAM	100	0	18.19	18.35	18.36	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	20.61	20.79	20.64	21
15	QPSK	1	37	20.45	20.71	20.41	
15	QPSK	1	74	20.54	20.58	20.43	
15	QPSK	36	0	20.58	20.73	20.65	21
15	QPSK	36	20	20.58	20.63	20.48	
15	QPSK	36	39	20.37	20.61	20.53	
15	QPSK	75	0	20.72	20.65	20.63	
15	16QAM	1	0	20.52	20.56	20.48	21
15	16QAM	1	37	20.57	20.45	20.63	
15	16QAM	1	74	20.42	20.53	20.46	
15	16QAM	36	0	20.34	20.62	20.47	21
15	16QAM	36	20	20.56	20.50	20.67	
15	16QAM	36	39	20.55	20.46	20.63	
15	16QAM	75	0	20.42	20.57	20.50	
15	64QAM	1	0	20.68	20.57	20.64	21
15	64QAM	1	37	20.44	20.46	20.61	
15	64QAM	1	74	20.44	20.71	20.43	
15	64QAM	36	0	20.39	20.51	20.38	21
15	64QAM	36	20	20.27	20.59	20.38	
15	64QAM	36	39	20.35	20.55	20.48	
15	64QAM	75	0	20.49	20.63	20.60	
15	256QAM	1	0	18.25	18.43	18.41	20
15	256QAM	1	37	18.19	18.41	18.18	
15	256QAM	1	74	18.05	18.24	18.29	
15	256QAM	36	0	18.16	18.46	18.44	20
15	256QAM	36	20	18.15	18.28	18.26	
15	256QAM	36	39	18.23	18.30	18.24	
15	256QAM	75	0	18.19	18.31	18.29	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	



FCC SAR TEST REPORT

Report No. : FA272001

10	QPSK	1	0	20.67	20.71	20.72	21
10	QPSK	1	25	20.50	20.61	20.47	
10	QPSK	1	49	20.53	20.59	20.45	
10	QPSK	25	0	20.55	20.68	20.59	21
10	QPSK	25	12	20.59	20.70	20.49	
10	QPSK	25	25	20.39	20.66	20.44	
10	QPSK	50	0	20.69	20.69	20.60	21
10	16QAM	1	0	20.54	20.63	20.48	
10	16QAM	1	25	20.53	20.44	20.67	
10	16QAM	1	49	20.37	20.57	20.42	21
10	16QAM	25	0	20.38	20.54	20.41	
10	16QAM	25	12	20.61	20.54	20.74	
10	16QAM	25	25	20.55	20.45	20.54	21
10	16QAM	50	0	20.47	20.56	20.43	
10	64QAM	1	0	20.65	20.55	20.66	
10	64QAM	1	25	20.39	20.48	20.59	21
10	64QAM	1	49	20.51	20.71	20.39	
10	64QAM	25	0	20.36	20.46	20.35	
10	64QAM	25	12	20.30	20.57	20.40	21
10	64QAM	25	25	20.38	20.54	20.52	
10	64QAM	50	0	20.54	20.61	20.63	
10	256QAM	1	0	18.15	18.42	18.32	20
10	256QAM	1	25	18.11	18.38	18.15	
10	256QAM	1	49	18.04	18.21	18.26	
10	256QAM	25	0	18.14	18.43	18.37	20
10	256QAM	25	12	18.12	18.25	18.19	
10	256QAM	25	25	18.15	18.20	18.21	
10	256QAM	50	0	18.18	18.25	18.21	Tune-up limit (dBm)
Channel				44615	45090	45565	
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	20.66	20.71	20.63	21
5	QPSK	1	12	20.47	20.71	20.41	
5	QPSK	1	24	20.50	20.52	20.49	
5	QPSK	12	0	20.51	20.67	20.60	21
5	QPSK	12	7	20.65	20.69	20.41	
5	QPSK	12	13	20.39	20.58	20.49	
5	QPSK	25	0	20.67	20.67	20.62	21
5	16QAM	1	0	20.57	20.55	20.49	
5	16QAM	1	12	20.56	20.45	20.61	
5	16QAM	1	24	20.41	20.57	20.50	21
5	16QAM	12	0	20.31	20.61	20.41	
5	16QAM	12	7	20.55	20.55	20.68	
5	16QAM	12	13	20.51	20.51	20.56	21
5	16QAM	25	0	20.49	20.66	20.45	
5	64QAM	1	0	20.64	20.60	20.60	
5	64QAM	1	12	20.34	20.50	20.59	21
5	64QAM	1	24	20.45	20.69	20.45	
5	64QAM	12	0	20.41	20.49	20.41	
5	64QAM	12	7	20.32	20.54	20.44	21
5	64QAM	12	13	20.38	20.61	20.57	
5	64QAM	25	0	20.45	20.59	20.53	
5	256QAM	1	0	18.15	18.32	18.27	20
5	256QAM	1	12	18.02	18.36	18.12	
5	256QAM	1	24	18.00	18.12	18.25	
5	256QAM	12	0	18.09	18.37	18.31	20
5	256QAM	12	7	18.12	18.20	18.19	
5	256QAM	12	13	18.08	18.12	18.21	
5	256QAM	25	0	18.15	18.24	18.17	



◀LTE Band 43 MIMO2 Ant State 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				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	17.78	17.80	17.77	18
20	QPSK	1	49	17.75	17.74	17.76	
20	QPSK	1	99	17.63	17.61	17.63	
20	QPSK	50	0	16.73	16.70	16.74	17
20	QPSK	50	24	16.77	16.78	16.76	
20	QPSK	50	50	16.71	16.71	16.71	
20	QPSK	100	0	16.76	16.77	16.75	
20	16QAM	1	0	16.81	16.81	16.84	17
20	16QAM	1	49	16.79	16.74	16.80	
20	16QAM	1	99	16.64	16.62	16.64	
20	16QAM	50	0	15.72	15.72	15.73	16
20	16QAM	50	24	15.78	15.78	15.79	
20	16QAM	50	50	15.71	15.70	15.70	
20	16QAM	100	0	15.77	15.75	15.74	
20	64QAM	1	0	15.75	15.71	15.80	16
20	64QAM	1	49	15.70	15.72	15.74	
20	64QAM	1	99	15.62	15.55	15.53	
20	64QAM	50	0	14.73	14.70	14.74	15
20	64QAM	50	24	14.78	14.79	14.82	
20	64QAM	50	50	14.73	14.69	14.72	
20	64QAM	100	0	14.73	14.75	14.78	
20	256QAM	1	0	12.30	12.30	12.19	13
20	256QAM	1	49	12.40	12.43	12.13	
20	256QAM	1	99	12.33	12.35	12.10	
20	256QAM	50	0	12.37	12.40	12.28	13
20	256QAM	50	24	12.39	12.47	12.28	
20	256QAM	50	50	12.44	12.46	12.22	
20	256QAM	100	0	12.38	12.48	12.23	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	17.70	17.75	17.70	18
15	QPSK	1	37	17.75	17.72	17.69	
15	QPSK	1	74	17.53	17.58	17.61	
15	QPSK	36	0	16.71	16.63	16.69	17
15	QPSK	36	20	16.73	16.69	16.69	
15	QPSK	36	39	16.63	16.69	16.70	
15	QPSK	75	0	16.66	16.77	16.75	
15	16QAM	1	0	16.71	16.77	16.75	17
15	16QAM	1	37	16.69	16.70	16.72	
15	16QAM	1	74	16.62	16.62	16.63	
15	16QAM	36	0	15.62	15.62	15.65	16
15	16QAM	36	20	15.68	15.73	15.74	
15	16QAM	36	39	15.69	15.67	15.62	
15	16QAM	75	0	15.70	15.67	15.68	
15	64QAM	1	0	15.73	15.67	15.77	16
15	64QAM	1	37	15.68	15.64	15.69	
15	64QAM	1	74	15.57	15.54	15.43	
15	64QAM	36	0	14.68	14.64	14.70	15
15	64QAM	36	20	14.75	14.78	14.75	
15	64QAM	36	39	14.69	14.68	14.70	
15	64QAM	75	0	14.71	14.68	14.77	
15	256QAM	1	0	12.24	12.24	12.17	13
15	256QAM	1	37	12.31	12.33	12.10	
15	256QAM	1	74	12.32	12.35	12.01	
15	256QAM	36	0	12.34	12.38	12.27	13
15	256QAM	36	20	12.37	12.45	12.27	
15	256QAM	36	39	12.34	12.41	12.21	
15	256QAM	75	0	12.28	12.39	12.23	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	



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10	QPSK	1	0	17.71	17.76	17.71	18
10	QPSK	1	25	17.71	17.70	17.74	
10	QPSK	1	49	17.55	17.53	17.53	
10	QPSK	25	0	16.65	16.60	16.68	17
10	QPSK	25	12	16.74	16.74	16.74	
10	QPSK	25	25	16.66	16.67	16.68	
10	QPSK	50	0	16.74	16.76	16.67	17
10	16QAM	1	0	16.81	16.81	16.75	
10	16QAM	1	25	16.69	16.73	16.70	
10	16QAM	1	49	16.63	16.60	16.60	16
10	16QAM	25	0	15.70	15.69	15.68	
10	16QAM	25	12	15.70	15.71	15.72	
10	16QAM	25	25	15.66	15.64	15.67	16
10	16QAM	50	0	15.71	15.73	15.66	
10	64QAM	1	0	15.72	15.65	15.75	
10	64QAM	1	25	15.60	15.64	15.74	15
10	64QAM	1	49	15.56	15.45	15.50	
10	64QAM	25	0	14.70	14.65	14.69	
10	64QAM	25	12	14.77	14.74	14.80	13
10	64QAM	25	25	14.65	14.65	14.65	
10	64QAM	50	0	14.72	14.66	14.74	
10	256QAM	1	0	12.23	12.24	12.09	13
10	256QAM	1	25	12.33	12.42	12.06	
10	256QAM	1	49	12.28	12.29	12.02	
10	256QAM	25	0	12.30	12.38	12.24	13
10	256QAM	25	12	12.30	12.41	12.26	
10	256QAM	25	25	12.40	12.43	12.21	
10	256QAM	50	0	12.28	12.48	12.23	
Channel				44615	45090	45565	Tune-up limit (dBm)
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	17.69	17.77	17.77	18
5	QPSK	1	12	17.73	17.72	17.72	
5	QPSK	1	24	17.57	17.53	17.63	
5	QPSK	12	0	16.67	16.68	16.68	17
5	QPSK	12	7	16.75	16.77	16.70	
5	QPSK	12	13	16.66	16.63	16.68	
5	QPSK	25	0	16.68	16.72	16.67	17
5	16QAM	1	0	16.79	16.79	16.84	
5	16QAM	1	12	16.70	16.71	16.70	
5	16QAM	1	24	16.64	16.52	16.54	16
5	16QAM	12	0	15.64	15.70	15.70	
5	16QAM	12	7	15.75	15.78	15.74	
5	16QAM	12	13	15.61	15.70	15.64	16
5	16QAM	25	0	15.73	15.67	15.72	
5	64QAM	1	0	15.67	15.70	15.77	
5	64QAM	1	12	15.62	15.68	15.65	15
5	64QAM	1	24	15.55	15.50	15.49	
5	64QAM	12	0	14.68	14.67	14.74	
5	64QAM	12	7	14.75	14.75	14.73	13
5	64QAM	12	13	14.73	14.66	14.70	
5	64QAM	25	0	14.73	14.71	14.69	
5	256QAM	1	0	12.25	12.22	12.13	13
5	256QAM	1	12	12.33	12.40	12.12	
5	256QAM	1	24	12.27	12.31	12.00	
5	256QAM	12	0	12.29	12.34	12.22	13
5	256QAM	12	7	12.32	12.47	12.24	
5	256QAM	12	13	12.39	12.44	12.16	
5	256QAM	25	0	12.34	12.47	12.19	



LTE Band 43 HPUE MIMO2 Ant State 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				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	22.33	22.48	22.15	23
20	QPSK	1	49	22.31	22.42	22.24	
20	QPSK	1	99	22.29	22.31	22.10	
20	QPSK	50	0	21.12	21.18	20.98	22
20	QPSK	50	24	21.08	21.15	20.94	
20	QPSK	50	50	21.11	21.14	20.89	
20	QPSK	100	0	21.02	21.15	20.91	
20	16QAM	1	0	21.17	21.26	21.02	22
20	16QAM	1	49	21.29	21.28	21.06	
20	16QAM	1	99	21.16	21.28	20.95	
20	16QAM	50	0	20.04	20.10	19.96	21
20	16QAM	50	24	20.09	20.19	19.92	
20	16QAM	50	50	20.10	20.16	19.88	
20	16QAM	100	0	20.04	20.16	19.94	
20	64QAM	1	0	20.27	20.41	20.27	21
20	64QAM	1	49	20.30	20.39	20.09	
20	64QAM	1	99	20.25	20.30	20.00	
20	64QAM	50	0	19.07	19.05	18.98	20
20	64QAM	50	24	19.08	19.19	18.95	
20	64QAM	50	50	16.71	19.15	18.89	
20	64QAM	100	0	21.18	19.14	18.92	
20	256QAM	1	0	21.17	17.13	17.12	18
20	256QAM	1	49	10.20	17.32	17.10	
20	256QAM	1	99	21.16	17.23	16.94	
20	256QAM	50	0	17.07	17.06	16.96	18
20	256QAM	50	24	17.06	17.18	16.93	
20	256QAM	50	50	17.12	17.14	16.91	
20	256QAM	100	0	17.06	17.14	16.94	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	22.31	22.36	22.01	23
15	QPSK	1	37	22.14	22.30	22.17	
15	QPSK	1	74	22.23	22.23	22.10	
15	QPSK	36	0	20.88	21.04	20.85	22
15	QPSK	36	20	21.06	21.10	20.91	
15	QPSK	36	39	20.99	21.08	20.89	
15	QPSK	75	0	20.90	20.97	20.77	
15	16QAM	1	0	21.06	21.13	20.90	22
15	16QAM	1	37	21.11	21.17	20.87	
15	16QAM	1	74	21.14	21.12	20.76	
15	16QAM	36	0	19.96	19.94	19.91	21
15	16QAM	36	20	20.03	20.02	19.87	
15	16QAM	36	39	20.09	19.98	19.86	
15	16QAM	75	0	19.85	20.14	19.90	
15	64QAM	1	0	20.11	20.38	20.09	21
15	64QAM	1	37	20.17	20.29	20.09	
15	64QAM	1	74	20.20	20.26	19.93	
15	64QAM	36	0	18.97	19.01	18.93	20
15	64QAM	36	20	19.05	19.05	18.75	
15	64QAM	36	39	16.67	19.14	18.69	
15	64QAM	75	0	20.99	18.96	18.85	
15	256QAM	1	0	21.01	17.07	17.04	18
15	256QAM	1	37	10.07	17.15	16.90	
15	256QAM	1	74	21.10	17.05	16.90	
15	256QAM	36	0	17.00	17.03	16.96	18
15	256QAM	36	20	17.06	17.11	16.83	
15	256QAM	36	39	17.09	16.96	16.88	
15	256QAM	75	0	16.86	17.05	16.79	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	



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10	QPSK	1	0	22.18	22.35	22.13	23
10	QPSK	1	25	22.15	22.37	22.10	
10	QPSK	1	49	22.09	22.17	21.92	
10	QPSK	25	0	20.96	21.13	20.88	22
10	QPSK	25	12	21.05	21.04	20.90	
10	QPSK	25	25	21.11	20.99	20.86	
10	QPSK	50	0	20.94	21.08	20.76	22
10	16QAM	1	0	21.11	21.26	20.96	
10	16QAM	1	25	21.13	21.09	21.02	
10	16QAM	1	49	21.13	21.17	20.79	21
10	16QAM	25	0	20.04	20.08	19.82	
10	16QAM	25	12	19.93	20.10	19.92	
10	16QAM	25	25	19.98	19.99	19.69	21
10	16QAM	50	0	19.93	20.00	19.75	
10	64QAM	1	0	20.10	20.32	20.21	
10	64QAM	1	25	20.19	20.24	20.00	20
10	64QAM	1	49	20.21	20.17	19.92	
10	64QAM	25	0	18.90	18.95	18.85	
10	64QAM	25	12	18.97	19.01	18.76	18
10	64QAM	25	25	16.70	18.95	18.77	
10	64QAM	50	0	21.03	19.11	18.88	
10	256QAM	1	0	20.97	16.96	17.05	18
10	256QAM	1	25	10.11	17.24	17.06	
10	256QAM	1	49	21.09	17.21	16.90	
10	256QAM	25	0	16.99	16.87	16.96	18
10	256QAM	25	12	16.93	17.11	16.75	
10	256QAM	25	25	17.04	16.99	16.82	
10	256QAM	50	0	16.87	17.12	16.80	Tune-up limit (dBm)
Channel				44615	45090	45565	
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	22.16	22.39	22.03	23
5	QPSK	1	12	22.31	22.32	22.16	
5	QPSK	1	24	22.12	22.16	21.90	
5	QPSK	12	0	20.90	21.10	20.87	22
5	QPSK	12	7	21.05	21.11	20.90	
5	QPSK	12	13	20.92	20.96	20.89	
5	QPSK	25	0	20.95	21.08	20.72	22
5	16QAM	1	0	21.15	21.25	20.92	
5	16QAM	1	12	21.16	21.22	21.04	
5	16QAM	1	24	21.08	21.19	20.87	21
5	16QAM	12	0	19.91	20.05	19.79	
5	16QAM	12	7	20.08	20.12	19.87	
5	16QAM	12	13	20.09	20.01	19.70	21
5	16QAM	25	0	19.92	20.13	19.88	
5	64QAM	1	0	20.22	20.25	20.12	
5	64QAM	1	12	20.15	20.27	19.96	20
5	64QAM	1	24	20.19	20.14	19.97	
5	64QAM	12	0	19.01	18.94	18.86	
5	64QAM	12	7	19.01	19.01	18.78	18
5	64QAM	12	13	16.68	18.99	18.82	
5	64QAM	25	0	21.15	19.13	18.86	
5	256QAM	1	0	21.08	17.10	16.96	18
5	256QAM	1	12	10.05	17.15	16.96	
5	256QAM	1	24	21.06	17.14	16.88	
5	256QAM	12	0	17.06	16.97	16.95	18
5	256QAM	12	7	16.94	17.12	16.77	
5	256QAM	12	13	17.10	17.11	16.91	
5	256QAM	25	0	17.03	17.02	16.85	



LTE Band 43 HPUE MIMO2 Ant State 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				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	19.84	19.82	19.82	21
20	QPSK	1	49	19.81	19.76	19.77	
20	QPSK	1	99	19.67	19.68	19.66	
20	QPSK	50	0	18.72	18.75	18.73	20
20	QPSK	50	24	18.82	18.79	18.79	
20	QPSK	50	50	18.71	18.71	18.74	
20	QPSK	100	0	18.80	18.78	18.77	
20	16QAM	1	0	19.17	19.16	19.14	20
20	16QAM	1	49	19.19	19.17	19.12	
20	16QAM	1	99	18.97	18.98	19.01	
20	16QAM	50	0	17.75	17.75	17.78	19
20	16QAM	50	24	17.86	17.80	17.82	
20	16QAM	50	50	17.76	17.73	17.75	
20	16QAM	100	0	17.80	17.76	17.79	
20	64QAM	1	0	18.10	18.07	18.04	19
20	64QAM	1	49	18.04	17.90	18.06	
20	64QAM	1	99	17.85	17.83	17.87	
20	64QAM	50	0	16.74	16.76	16.74	18
20	64QAM	50	24	16.79	16.81	16.81	
20	64QAM	50	50	16.74	16.72	16.75	
20	64QAM	100	0	16.76	16.77	16.80	
20	256QAM	1	0	14.62	14.62	14.41	16
20	256QAM	1	49	14.65	14.77	14.39	
20	256QAM	1	99	14.71	14.64	14.27	
20	256QAM	50	0	14.48	14.50	14.27	16
20	256QAM	50	24	14.50	14.58	14.28	
20	256QAM	50	50	14.55	14.57	14.22	
20	256QAM	100	0	14.47	14.60	14.29	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	19.81	19.82	19.74	21
15	QPSK	1	37	19.81	19.70	19.73	
15	QPSK	1	74	19.66	19.64	19.59	
15	QPSK	36	0	18.64	18.71	18.71	20
15	QPSK	36	20	18.72	18.69	18.76	
15	QPSK	36	39	18.70	18.63	18.74	
15	QPSK	75	0	18.69	18.72	18.77	
15	16QAM	1	0	19.10	19.13	19.12	20
15	16QAM	1	37	19.14	19.15	19.04	
15	16QAM	1	74	18.92	18.94	19.00	
15	16QAM	36	0	17.69	17.73	17.72	19
15	16QAM	36	20	17.78	17.76	17.73	
15	16QAM	36	39	17.75	17.70	17.67	
15	16QAM	75	0	17.73	17.68	17.73	
15	64QAM	1	0	18.00	18.06	18.02	19
15	64QAM	1	37	18.00	17.90	18.04	
15	64QAM	1	74	17.84	17.76	17.86	
15	64QAM	36	0	16.70	16.73	16.72	18
15	64QAM	36	20	16.69	16.80	16.80	
15	64QAM	36	39	16.73	16.68	16.68	
15	64QAM	75	0	16.73	16.67	16.77	
15	256QAM	1	0	14.61	14.59	14.38	16
15	256QAM	1	37	14.62	14.69	14.35	
15	256QAM	1	74	14.66	14.57	14.17	
15	256QAM	36	0	14.47	14.50	14.23	16
15	256QAM	36	20	14.44	14.52	14.25	
15	256QAM	36	39	14.45	14.47	14.21	
15	256QAM	75	0	14.47	14.52	14.28	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	



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10	QPSK	1	0	19.75	19.74	19.81	21
10	QPSK	1	25	19.73	19.71	19.73	
10	QPSK	1	49	19.59	19.61	19.58	
10	QPSK	25	0	18.68	18.72	18.63	20
10	QPSK	25	12	18.79	18.76	18.79	
10	QPSK	25	25	18.71	18.70	18.64	
10	QPSK	50	0	18.71	18.72	18.68	20
10	16QAM	1	0	19.09	19.13	19.09	
10	16QAM	1	25	19.14	19.16	19.06	
10	16QAM	1	49	18.90	18.95	19.01	19
10	16QAM	25	0	17.72	17.69	17.77	
10	16QAM	25	12	17.86	17.77	17.72	
10	16QAM	25	25	17.75	17.65	17.74	19
10	16QAM	50	0	17.75	17.71	17.78	
10	64QAM	1	0	18.04	18.07	18.03	
10	64QAM	1	25	18.01	17.88	18.01	18
10	64QAM	1	49	17.81	17.78	17.79	
10	64QAM	25	0	16.73	16.72	16.67	
10	64QAM	25	12	16.78	16.77	16.74	16
10	64QAM	25	25	16.73	16.64	16.72	
10	64QAM	50	0	16.73	16.68	16.75	
10	256QAM	1	0	14.54	14.56	14.41	16
10	256QAM	1	25	14.61	14.70	14.32	
10	256QAM	1	49	14.67	14.57	14.20	
10	256QAM	25	0	14.40	14.41	14.27	16
10	256QAM	25	12	14.46	14.54	14.20	
10	256QAM	25	25	14.51	14.55	14.19	
10	256QAM	50	0	14.38	14.60	14.24	
Channel				44615	45090	45565	Tune-up limit (dBm)
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	19.82	19.75	19.81	21
5	QPSK	1	12	19.76	19.68	19.67	
5	QPSK	1	24	19.63	19.60	19.58	
5	QPSK	12	0	18.71	18.67	18.69	20
5	QPSK	12	7	18.76	18.78	18.80	
5	QPSK	12	13	18.61	18.67	18.70	
5	QPSK	25	0	18.74	18.70	18.77	20
5	16QAM	1	0	19.09	19.11	19.06	
5	16QAM	1	12	19.16	19.09	19.09	
5	16QAM	1	24	18.91	18.97	18.92	19
5	16QAM	12	0	17.72	17.67	17.71	
5	16QAM	12	7	17.85	17.73	17.74	
5	16QAM	12	13	17.72	17.72	17.74	19
5	16QAM	25	0	17.79	17.74	17.77	
5	64QAM	1	0	18.06	18.06	18.02	
5	64QAM	1	12	17.99	17.89	18.05	18
5	64QAM	1	24	17.78	17.73	17.77	
5	64QAM	12	0	16.69	16.76	16.73	
5	64QAM	12	7	16.74	16.76	16.71	16
5	64QAM	12	13	16.64	16.71	16.65	
5	64QAM	25	0	16.70	16.77	16.78	
5	256QAM	1	0	14.58	14.56	14.33	16
5	256QAM	1	12	14.62	14.74	14.30	
5	256QAM	1	24	14.68	14.60	14.21	
5	256QAM	12	0	14.48	14.46	14.23	16
5	256QAM	12	7	14.42	14.50	14.22	
5	256QAM	12	13	14.49	14.50	14.21	
5	256QAM	25	0	14.45	14.53	14.20	



<LTE Band 48 Main Ant. State 2>								
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	18.99	19.16	19.34	19.40	20
20	QPSK	1	49	18.87	19.02	19.28	19.24	
20	QPSK	1	99	18.92	19.01	19.27	19.23	
20	QPSK	50	0	18.82	19.04	19.23	19.25	20
20	QPSK	50	24	18.88	19.03	19.20	19.19	
20	QPSK	50	50	18.81	19.06	19.24	19.21	
20	QPSK	100	0	18.94	19.11	19.24	19.26	20
20	16QAM	1	0	18.97	19.08	19.34	19.33	
20	16QAM	1	49	18.90	19.12	19.27	19.32	
20	16QAM	1	99	18.78	18.94	19.17	19.17	20
20	16QAM	50	0	18.89	18.97	19.19	19.15	
20	16QAM	50	24	18.72	18.98	19.25	19.19	
20	16QAM	50	50	18.82	18.97	19.18	19.29	20
20	16QAM	100	0	18.80	18.96	19.26	19.19	
20	64QAM	1	0	18.85	19.06	19.24	19.18	
20	64QAM	1	49	18.89	19.06	19.27	19.28	20
20	64QAM	1	99	18.81	19.08	19.10	19.30	
20	64QAM	50	0	18.70	18.94	19.16	19.11	
20	64QAM	50	24	18.83	18.93	19.17	19.14	20
20	64QAM	50	50	18.70	18.92	19.13	19.14	
20	64QAM	100	0	18.75	18.88	19.22	19.25	
20	256QAM	1	0	17.02	17.00	17.17	17.40	18
20	256QAM	1	49	16.87	16.86	17.11	17.25	
20	256QAM	1	99	16.92	16.86	17.10	17.23	
20	256QAM	50	0	16.82	16.84	17.09	17.24	18
20	256QAM	50	24	16.88	16.90	17.13	17.35	
20	256QAM	50	50	16.81	16.81	17.07	17.30	
20	256QAM	100	0	16.94	16.90	17.12	17.35	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	18.99	19.08	19.27	19.30	20
15	QPSK	1	37	18.87	18.96	19.28	19.17	
15	QPSK	1	74	18.92	18.93	19.25	19.20	
15	QPSK	36	0	18.79	19.03	19.14	19.16	20
15	QPSK	36	20	18.88	18.98	19.17	19.15	
15	QPSK	36	39	18.71	18.96	19.18	19.21	
15	QPSK	75	0	18.91	19.08	19.24	19.25	20
15	16QAM	1	0	18.96	19.05	19.28	19.23	
15	16QAM	1	37	18.90	19.03	19.20	19.31	
15	16QAM	1	74	18.72	18.85	19.13	19.17	20
15	16QAM	36	0	18.81	18.90	19.17	19.12	
15	16QAM	36	20	18.65	18.93	19.23	19.19	
15	16QAM	36	39	18.80	18.92	19.12	19.26	20
15	16QAM	75	0	18.71	18.93	19.26	19.19	
15	16QAM	1	0	18.79	19.06	19.14	19.08	
15	64QAM	1	37	18.88	19.05	19.19	19.20	20
15	64QAM	1	74	18.81	19.00	19.00	19.20	
15	64QAM	36	0	18.65	18.90	19.08	19.02	
15	64QAM	36	20	18.74	18.87	19.13	19.14	20
15	64QAM	36	39	18.66	18.83	19.06	19.09	
15	64QAM	75	0	18.68	18.88	19.16	19.21	
15	256QAM	1	0	16.97	16.97	17.15	17.34	18
15	256QAM	1	37	16.81	16.85	17.08	17.18	
15	256QAM	1	74	16.88	16.78	17.05	17.16	
15	256QAM	36	0	16.78	16.80	17.09	17.24	18
15	256QAM	36	20	16.87	16.90	17.13	17.32	
15	256QAM	36	39	16.78	16.77	17.03	17.29	
15	256QAM	75	0	16.92	16.83	17.02	17.29	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	



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10	QPSK	1	0	18.94	19.14	19.32	19.37	20	
10	QPSK	1	25	18.80	18.98	19.19	19.14		
10	QPSK	1	49	18.92	19.01	19.21	19.17		
10	QPSK	25	0	18.81	18.94	19.17	19.22	20	
10	QPSK	25	12	18.78	18.96	19.11	19.19		
10	QPSK	25	25	18.80	18.98	19.15	19.15		
10	QPSK	50	0	18.93	19.06	19.16	19.22	20	
10	16QAM	1	0	18.93	19.05	19.34	19.31		
10	16QAM	1	25	18.81	19.10	19.25	19.28		
10	16QAM	1	49	18.76	18.92	19.10	19.16	20	
10	16QAM	25	0	18.85	18.97	19.16	19.12		
10	16QAM	25	12	18.62	18.92	19.16	19.10		
10	16QAM	25	25	18.78	18.88	19.14	19.28	20	
10	16QAM	50	0	18.78	18.86	19.17	19.09		
10	64QAM	1	0	18.76	19.00	19.16	19.17		
10	64QAM	1	25	18.89	19.05	19.25	19.22	20	
10	64QAM	1	49	18.73	18.99	19.01	19.27		
10	64QAM	25	0	18.69	18.86	19.10	19.07		
10	64QAM	25	12	18.77	18.93	19.13	19.12	20	
10	64QAM	25	25	18.61	18.88	19.07	19.08		
10	64QAM	50	0	18.69	18.78	19.22	19.15		
10	256QAM	1	0	16.95	16.99	17.09	17.32	18	
10	256QAM	1	25	16.85	16.78	17.01	17.18		
10	256QAM	1	49	16.92	16.81	17.04	17.18		
10	256QAM	25	0	16.77	16.83	17.05	17.15	18	
10	256QAM	25	12	16.88	16.85	17.03	17.30		
10	256QAM	25	25	16.71	16.78	16.99	17.30		
10	256QAM	50	0	16.85	16.85	17.03	17.33	18	
Channel				55265	55810	56170	56715		Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	18.96	19.11	19.33	19.32	20	
5	QPSK	1	12	18.78	19.00	19.18	19.23		
5	QPSK	1	24	18.89	18.99	19.22	19.13		
5	QPSK	12	0	18.80	19.04	19.18	19.15	20	
5	QPSK	12	7	18.81	18.99	19.18	19.09		
5	QPSK	12	13	18.74	19.06	19.22	19.20		
5	QPSK	25	0	18.93	19.05	19.21	19.26	20	
5	16QAM	1	0	18.97	19.02	19.24	19.28		
5	16QAM	1	12	18.90	19.12	19.17	19.25		
5	16QAM	1	24	18.69	18.91	19.08	19.13	20	
5	16QAM	12	0	18.82	18.95	19.14	19.07		
5	16QAM	12	7	18.72	18.93	19.23	19.13		
5	16QAM	12	13	18.73	18.96	19.17	19.25	20	
5	16QAM	25	0	18.71	18.87	19.23	19.10		
5	64QAM	1	0	18.80	19.05	19.16	19.18		
5	64QAM	1	12	18.83	19.06	19.24	19.27	20	
5	64QAM	1	24	18.76	19.04	19.00	19.25		
5	64QAM	12	0	18.70	18.90	19.07	19.06		
5	64QAM	12	7	18.81	18.93	19.15	19.06	20	
5	64QAM	12	13	18.65	18.89	19.13	19.10		
5	64QAM	25	0	18.74	18.78	19.22	19.20		
5	256QAM	1	0	17.00	16.90	17.15	17.39	18	
5	256QAM	1	12	16.87	16.79	17.01	17.21		
5	256QAM	1	24	16.89	16.78	17.07	17.14		
5	256QAM	12	0	16.76	16.77	17.05	17.23	18	
5	256QAM	12	7	16.84	16.87	17.13	17.29		
5	256QAM	12	13	16.71	16.76	17.07	17.27		
5	256QAM	25	0	16.88	16.84	17.02	17.26	18	



<LTE Band 48 MIMO2 Ant. State 2>								
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	19.05	19.02	18.95	19.15	20.5
20	QPSK	1	49	19.03	18.93	18.92	19.10	
20	QPSK	1	99	18.90	18.79	18.75	18.94	
20	QPSK	50	0	18.02	17.95	17.89	18.12	19.5
20	QPSK	50	24	18.06	17.99	17.89	18.10	
20	QPSK	50	50	18.07	18.03	17.95	18.14	
20	QPSK	100	0	18.08	18.00	17.99	18.13	19.5
20	16QAM	1	0	18.09	17.97	17.98	18.17	
20	16QAM	1	49	18.25	18.02	17.96	18.13	
20	16QAM	1	99	17.95	17.78	17.79	17.93	18.5
20	16QAM	50	0	17.01	16.96	16.94	17.11	
20	16QAM	50	24	17.10	17.01	16.90	17.08	
20	16QAM	50	50	17.05	16.98	16.93	17.15	18.5
20	16QAM	100	0	17.06	17.02	16.97	17.05	
20	64QAM	1	0	17.04	16.91	16.92	17.07	
20	64QAM	1	49	16.90	16.89	16.89	17.07	17.5
20	64QAM	1	99	16.88	16.71	16.75	16.97	
20	64QAM	50	0	16.02	15.96	15.92	16.12	
20	64QAM	50	24	16.08	16.00	15.91	16.09	15.5
20	64QAM	50	50	16.05	15.96	15.94	16.13	
20	64QAM	100	0	16.06	16.00	15.96	16.08	
20	256QAM	1	0	13.94	13.78	13.77	13.98	15.5
20	256QAM	1	49	14.01	13.85	13.79	13.96	
20	256QAM	1	99	14.03	13.82	13.78	13.91	
20	256QAM	50	0	14.02	13.80	13.76	13.99	15.5
20	256QAM	50	24	14.15	13.90	13.79	13.99	
20	256QAM	50	50	14.16	13.93	13.94	14.05	
20	256QAM	100	0	14.14	13.95	13.91	13.98	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	18.97	18.95	18.87	19.07	20.5
15	QPSK	1	37	18.95	18.83	18.88	19.04	
15	QPSK	1	74	18.86	18.72	18.72	18.85	
15	QPSK	36	0	17.92	17.91	17.85	18.07	19.5
15	QPSK	36	20	18.02	17.98	17.89	18.03	
15	QPSK	36	39	17.97	17.95	17.93	18.05	
15	QPSK	75	0	18.00	18.00	17.94	18.06	19.5
15	16QAM	1	0	18.07	17.90	17.95	18.13	
15	16QAM	1	37	18.21	17.95	17.92	18.04	
15	16QAM	1	74	17.94	17.72	17.70	17.88	18.5
15	16QAM	36	0	16.94	16.92	16.94	17.05	
15	16QAM	36	20	17.10	16.94	16.87	17.06	
15	16QAM	36	39	17.05	16.90	16.93	17.12	18.5
15	16QAM	75	0	17.06	17.00	16.87	17.03	
15	64QAM	1	0	16.97	16.88	16.84	17.00	
15	64QAM	1	37	16.80	16.85	16.88	17.06	17.5
15	64QAM	1	74	16.81	16.68	16.73	16.97	
15	64QAM	36	0	15.94	15.89	15.89	16.05	
15	64QAM	36	20	16.06	15.99	15.89	16.00	15.5
15	64QAM	36	39	15.98	15.86	15.93	16.07	
15	64QAM	75	0	15.99	15.95	15.90	16.07	
15	256QAM	1	0	13.89	13.71	13.75	13.93	15.5
15	256QAM	1	37	13.92	13.78	13.78	13.90	
15	256QAM	1	74	13.95	13.75	13.70	13.87	
15	256QAM	36	0	13.95	13.77	13.72	13.97	15.5
15	256QAM	36	20	14.09	13.87	13.72	13.98	
15	256QAM	36	39	14.12	13.91	13.88	14.00	
15	256QAM	75	0	14.08	13.94	13.82	13.94	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	



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10	QPSK	1	0	18.99	18.91	18.85	18.95	20.5
10	QPSK	1	25	18.97	18.84	18.80	19.03	
10	QPSK	1	49	18.79	18.65	18.59	18.84	
10	QPSK	25	0	17.94	17.85	17.75	18.05	19.5
10	QPSK	25	12	17.93	17.95	17.77	18.00	
10	QPSK	25	25	17.96	17.97	17.86	18.10	
10	QPSK	50	0	18.01	17.90	17.85	17.97	19.5
10	16QAM	1	0	17.95	17.91	17.81	18.07	
10	16QAM	1	25	18.18	17.91	17.92	18.10	
10	16QAM	1	49	17.84	17.70	17.66	17.78	18.5
10	16QAM	25	0	16.98	16.95	16.86	17.01	
10	16QAM	25	12	17.06	16.97	16.81	16.92	
10	16QAM	25	25	17.02	16.95	16.88	17.01	18.5
10	16QAM	50	0	16.97	16.86	16.91	16.98	
10	64QAM	1	0	16.98	16.80	16.91	16.93	
10	64QAM	1	25	16.80	16.78	16.76	16.95	17.5
10	64QAM	1	49	16.76	16.57	16.64	16.93	
10	64QAM	25	0	15.92	15.85	15.76	16.00	
10	64QAM	25	12	15.96	15.92	15.83	15.96	15.5
10	64QAM	25	25	15.96	15.91	15.88	16.08	
10	64QAM	50	0	15.91	15.94	15.86	15.89	
10	256QAM	1	0	13.85	13.63	13.67	13.81	15.5
10	256QAM	1	25	13.97	13.74	13.71	13.82	
10	256QAM	1	49	13.95	13.70	13.77	13.78	
10	256QAM	25	0	13.96	13.71	13.57	13.93	15.5
10	256QAM	25	12	14.05	13.76	13.65	13.91	
10	256QAM	25	25	14.05	13.86	13.81	13.94	
10	256QAM	50	0	14.10	13.93	13.76	13.96	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	19.04	18.92	18.86	19.05	20.5
5	QPSK	1	12	18.97	18.87	18.85	19.10	
5	QPSK	1	24	18.82	18.70	18.65	18.86	
5	QPSK	12	0	17.94	17.86	17.83	18.12	19.5
5	QPSK	12	7	18.01	17.98	17.87	18.04	
5	QPSK	12	13	18.02	17.97	17.93	18.12	
5	QPSK	25	0	18.08	17.97	17.94	18.05	19.5
5	16QAM	1	0	18.04	17.94	17.90	18.09	
5	16QAM	1	12	18.18	18.01	17.96	18.13	
5	16QAM	1	24	17.90	17.74	17.70	17.87	18.5
5	16QAM	12	0	16.98	16.96	16.87	17.09	
5	16QAM	12	7	17.09	16.98	16.89	17.02	
5	16QAM	12	13	17.04	16.96	16.89	17.07	18.5
5	16QAM	25	0	17.04	16.96	16.96	16.99	
5	64QAM	1	0	17.04	16.88	16.92	17.00	
5	64QAM	1	12	16.82	16.82	16.86	16.99	17.5
5	64QAM	1	24	16.85	16.66	16.71	16.96	
5	64QAM	12	0	15.99	15.88	15.85	16.03	
5	64QAM	12	7	16.01	15.94	15.84	16.00	15.5
5	64QAM	12	13	16.00	15.92	15.89	16.09	
5	64QAM	25	0	15.97	15.94	15.87	15.99	
5	256QAM	1	0	13.89	13.68	13.77	13.90	15.5
5	256QAM	1	12	13.98	13.79	13.72	13.88	
5	256QAM	1	24	14.03	13.74	13.77	13.81	
5	256QAM	12	0	13.96	13.73	13.66	13.98	15.5
5	256QAM	12	7	14.09	13.82	13.74	13.99	
5	256QAM	12	13	14.11	13.87	13.90	13.95	
5	256QAM	25	0	14.11	13.95	13.81	13.97	



LTE Band 48 Main Ant State 3								
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	19.09	19.16	19.34	19.40	20.5
20	QPSK	1	49	18.97	19.02	19.28	19.24	
20	QPSK	1	99	19.02	19.01	19.27	19.23	
20	QPSK	50	0	19.02	19.09	19.23	19.25	20.5
20	QPSK	50	24	18.98	19.03	19.20	19.19	
20	QPSK	50	50	18.91	19.06	19.21	19.21	
20	QPSK	100	0	19.04	19.11	19.24	19.26	20.5
20	16QAM	1	0	19.07	19.08	19.34	19.33	
20	16QAM	1	49	19.00	19.12	19.27	19.32	
20	16QAM	1	99	18.88	18.94	19.17	19.17	20.5
20	16QAM	50	0	18.99	18.97	19.19	19.15	
20	16QAM	50	24	18.82	18.98	19.25	19.19	
20	16QAM	50	50	18.92	18.97	19.18	19.29	20.5
20	16QAM	100	0	18.90	18.96	19.26	19.19	
20	64QAM	1	0	18.95	19.06	19.24	19.18	
20	64QAM	1	49	18.99	19.06	19.27	19.28	20.5
20	64QAM	1	99	18.91	19.08	19.10	19.30	
20	64QAM	50	0	18.80	18.94	19.16	19.11	
20	64QAM	50	24	18.93	18.93	19.17	19.14	20.5
20	64QAM	50	50	18.80	18.92	19.13	19.14	
20	64QAM	100	0	18.85	18.88	19.22	19.25	
20	256QAM	1	0	17.12	17.00	17.17	17.40	18.5
20	256QAM	1	49	16.97	16.86	17.11	17.25	
20	256QAM	1	99	17.02	16.86	17.10	17.23	
20	256QAM	50	0	16.92	16.84	17.09	17.24	18.5
20	256QAM	50	24	16.98	16.90	17.13	17.35	
20	256QAM	50	50	16.91	16.81	17.07	17.30	
20	256QAM	100	0	17.04	16.90	17.12	17.35	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	18.99	19.12	19.34	19.37	20.5
15	QPSK	1	37	18.82	19.01	19.18	19.15	
15	QPSK	1	74	18.84	18.94	19.18	19.19	
15	QPSK	36	0	18.73	19.01	19.16	19.19	20.5
15	QPSK	36	20	18.85	19.01	19.20	19.16	
15	QPSK	36	39	18.77	19.04	19.14	19.19	
15	QPSK	75	0	18.89	19.08	19.15	19.23	20.5
15	16QAM	1	0	18.92	19.04	19.30	19.33	
15	16QAM	1	37	18.80	19.07	19.24	19.24	
15	16QAM	1	74	18.77	18.91	19.15	19.07	20.5
15	16QAM	36	0	18.83	18.95	19.19	19.10	
15	16QAM	36	20	18.71	18.91	19.19	19.12	
15	16QAM	36	39	18.80	18.95	19.10	19.25	20.5
15	16QAM	75	0	18.78	18.95	19.26	19.17	
15	64QAM	1	0	18.85	18.97	19.18	19.18	
15	64QAM	1	37	18.89	18.98	19.24	19.21	20.5
15	64QAM	1	74	18.72	19.03	19.05	19.24	
15	64QAM	36	0	18.61	18.86	19.11	19.06	
15	64QAM	36	20	18.73	18.89	19.09	19.04	20.5
15	64QAM	36	39	18.68	18.88	19.11	19.08	
15	64QAM	75	0	18.73	18.85	19.19	19.19	
15	256QAM	1	0	16.94	16.91	17.07	17.40	18.5
15	256QAM	1	37	16.83	16.80	17.07	17.22	
15	256QAM	1	74	16.89	16.78	17.10	17.22	
15	256QAM	36	0	16.80	16.78	17.00	17.22	18.5
15	256QAM	36	20	16.88	16.84	17.06	17.34	
15	256QAM	36	39	16.71	16.81	16.97	17.21	
15	256QAM	75	0	16.89	16.81	17.02	17.35	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	



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10	QPSK	1	0	18.97	19.11	19.30	19.34	20.5
10	QPSK	1	25	18.81	18.96	19.10	19.12	
10	QPSK	1	49	18.83	18.91	19.15	19.13	
10	QPSK	25	0	18.70	18.98	19.14	19.10	20.5
10	QPSK	25	12	18.79	18.96	19.11	19.10	
10	QPSK	25	25	18.75	18.94	19.08	19.11	
10	QPSK	50	0	18.87	19.08	19.06	19.22	20.5
10	16QAM	1	0	18.86	19.02	19.28	19.23	
10	16QAM	1	25	18.80	18.99	19.22	19.23	
10	16QAM	1	49	18.70	18.87	19.08	19.05	20.5
10	16QAM	25	0	18.76	18.86	19.10	19.07	
10	16QAM	25	12	18.67	18.89	19.16	19.06	
10	16QAM	25	25	18.77	18.86	19.04	19.23	20.5
10	16QAM	50	0	18.68	18.89	19.18	19.12	
10	64QAM	1	0	18.79	18.94	19.13	19.08	
10	64QAM	1	25	18.79	18.91	19.23	19.17	20.5
10	64QAM	1	49	18.69	18.94	18.97	19.17	
10	64QAM	25	0	18.52	18.85	19.06	19.02	
10	64QAM	25	12	18.70	18.82	19.00	18.96	20.5
10	64QAM	25	25	18.59	18.86	19.01	19.07	
10	64QAM	50	0	18.72	18.78	19.18	19.14	
10	256QAM	1	0	16.89	16.81	17.05	17.39	18.5
10	256QAM	1	25	16.74	16.78	17.06	17.18	
10	256QAM	1	49	16.88	16.69	17.06	17.21	
10	256QAM	25	0	16.79	16.76	16.98	17.13	18.5
10	256QAM	25	12	16.80	16.75	17.04	17.24	
10	256QAM	25	25	16.61	16.79	16.94	17.17	
10	256QAM	50	0	16.83	16.81	16.95	17.35	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	18.90	19.07	19.23	19.25	20.5
5	QPSK	1	12	18.81	18.93	19.05	19.03	
5	QPSK	1	24	18.79	18.82	19.10	19.08	
5	QPSK	12	0	18.66	18.89	19.06	19.00	20.5
5	QPSK	12	7	18.72	18.96	19.10	19.03	
5	QPSK	12	13	18.71	18.90	19.03	19.05	
5	QPSK	25	0	18.82	18.99	18.99	19.21	20.5
5	16QAM	1	0	18.78	18.99	19.28	19.14	
5	16QAM	1	12	18.73	18.91	19.15	19.15	
5	16QAM	1	24	18.69	18.79	19.08	18.95	20.5
5	16QAM	12	0	18.68	18.83	19.05	18.99	
5	16QAM	12	7	18.59	18.89	19.13	19.06	
5	16QAM	12	13	18.77	18.76	18.98	19.17	20.5
5	16QAM	25	0	18.59	18.87	19.11	19.03	
5	64QAM	1	0	18.74	18.89	19.11	18.98	
5	64QAM	1	12	18.71	18.83	19.16	19.13	20.5
5	64QAM	1	24	18.65	18.94	18.91	19.11	
5	64QAM	12	0	18.53	18.80	18.97	19.00	
5	64QAM	12	7	18.69	18.78	18.93	18.86	20.5
5	64QAM	12	13	18.54	18.77	18.99	19.05	
5	64QAM	25	0	18.65	18.78	19.09	19.06	
5	256QAM	1	0	16.80	16.76	17.01	17.35	18.5
5	256QAM	1	12	16.66	16.70	16.97	17.14	
5	256QAM	1	24	16.83	16.69	17.03	17.16	
5	256QAM	12	0	16.74	16.71	16.91	17.13	18.5
5	256QAM	12	7	16.78	16.71	17.03	17.18	
5	256QAM	12	13	16.57	16.73	16.91	17.12	
5	256QAM	25	0	16.74	16.74	16.90	17.27	



◀LTE Band 48 MIMO2 Ant. State 3▶								
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	15.43	15.38	15.39	15.45	16.5
20	QPSK	1	49	15.40	15.28	15.19	15.42	
20	QPSK	1	99	15.26	15.20	15.36	15.38	
20	QPSK	50	0	14.51	14.47	14.51	14.59	15.5
20	QPSK	50	24	14.62	14.53	14.55	14.67	
20	QPSK	50	50	14.64	14.55	14.70	14.72	
20	QPSK	100	0	14.63	14.53	14.53	14.68	
20	16QAM	1	0	14.30	14.29	14.19	14.37	15.5
20	16QAM	1	49	14.41	14.31	14.30	14.44	
20	16QAM	1	99	14.40	14.28	14.38	14.33	
20	16QAM	50	0	13.51	13.48	13.48	13.59	14.5
20	16QAM	50	24	13.67	13.50	13.54	13.65	
20	16QAM	50	50	13.68	13.51	13.64	13.61	
20	16QAM	100	0	13.61	13.53	13.52	13.65	
20	64QAM	1	0	13.37	13.42	13.24	13.43	14.5
20	64QAM	1	49	13.45	13.28	13.45	13.50	
20	64QAM	1	99	13.44	13.28	13.41	13.43	
20	64QAM	50	0	12.50	12.47	12.49	12.60	13.5
20	64QAM	50	24	12.65	12.54	12.55	12.64	
20	64QAM	50	50	12.66	12.51	12.65	12.63	
20	64QAM	100	0	12.60	12.53	12.51	12.65	
20	256QAM	1	0	10.40	10.45	10.40	10.50	11.5
20	256QAM	1	49	10.50	10.35	10.39	10.50	
20	256QAM	1	99	10.56	10.40	10.54	10.53	
20	256QAM	50	0	10.49	10.44	10.48	10.57	11.5
20	256QAM	50	24	10.63	10.50	10.52	10.65	
20	256QAM	50	50	10.66	10.49	10.66	10.62	
20	256QAM	100	0	10.62	10.49	10.51	10.63	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	15.42	15.37	15.29	15.40	16.5
15	QPSK	1	37	15.30	15.28	15.10	15.35	
15	QPSK	1	74	15.17	15.20	15.28	15.38	
15	QPSK	36	0	14.43	14.40	14.51	14.50	15.5
15	QPSK	36	20	14.54	14.44	14.53	14.62	
15	QPSK	36	39	14.54	14.53	14.64	14.67	
15	QPSK	75	0	14.66	14.49	14.53	14.56	15.5
15	16QAM	1	0	14.30	14.21	14.16	14.28	
15	16QAM	1	37	14.34	14.29	14.26	14.44	
15	16QAM	1	74	14.40	14.20	14.34	14.31	
15	16QAM	36	0	13.48	13.43	13.47	13.51	14.5
15	16QAM	36	20	13.57	13.41	13.46	13.59	
15	16QAM	36	39	13.61	13.44	13.60	13.61	
15	16QAM	75	0	13.55	13.45	13.46	13.60	14.5
15	64QAM	1	0	13.30	13.34	13.17	13.38	
15	64QAM	1	37	13.38	13.26	13.38	13.48	
15	64QAM	1	74	13.43	13.18	13.35	13.39	
15	64QAM	36	0	12.40	12.41	12.43	12.51	13.5
15	64QAM	36	20	12.59	12.53	12.48	12.60	
15	64QAM	36	39	12.61	12.49	12.60	12.61	
15	64QAM	75	0	12.58	12.49	12.50	12.58	11.5
15	256QAM	1	0	10.36	10.45	10.32	10.42	
15	256QAM	1	37	10.45	10.28	10.32	10.40	
15	256QAM	1	74	10.49	10.38	10.44	10.50	
15	256QAM	36	0	10.48	10.42	10.47	10.51	11.5
15	256QAM	36	20	10.54	10.44	10.51	10.62	
15	256QAM	36	39	10.65	10.39	10.58	10.56	
15	256QAM	75	0	10.52	10.46	10.43	10.54	11.5
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	



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10	QPSK	1	0	15.36	15.33	15.33	15.35	16.5
10	QPSK	1	25	15.35	15.27	15.18	15.33	
10	QPSK	1	49	15.26	15.15	15.31	15.36	
10	QPSK	25	0	14.51	14.47	14.42	14.53	15.5
10	QPSK	25	12	14.60	14.53	14.51	14.58	
10	QPSK	25	25	14.56	14.53	14.70	14.66	
10	QPSK	50	0	14.58	14.49	14.52	14.56	15.5
10	16QAM	1	0	14.30	14.21	14.16	14.27	
10	16QAM	1	25	14.38	14.21	14.22	14.34	
10	16QAM	1	49	14.33	14.23	14.29	14.24	14.5
10	16QAM	25	0	13.41	13.47	13.47	13.52	
10	16QAM	25	12	13.65	13.41	13.52	13.58	
10	16QAM	25	25	13.67	13.42	13.64	13.58	14.5
10	16QAM	50	0	13.59	13.51	13.45	13.63	
10	64QAM	1	0	13.33	13.39	13.14	13.34	
10	64QAM	1	25	13.40	13.20	13.39	13.48	14.5
10	64QAM	1	49	13.40	13.18	13.31	13.42	
10	64QAM	25	0	12.42	12.44	12.41	12.56	
10	64QAM	25	12	12.59	12.48	12.53	12.54	13.5
10	64QAM	25	25	12.56	12.41	12.56	12.55	
10	64QAM	50	0	12.50	12.47	12.45	12.62	
10	256QAM	1	0	10.32	10.43	10.30	10.50	11.5
10	256QAM	1	25	10.49	10.31	10.32	10.42	
10	256QAM	1	49	10.50	10.33	10.48	10.48	
10	256QAM	25	0	10.44	10.42	10.46	10.47	11.5
10	256QAM	25	12	10.56	10.44	10.51	10.64	
10	256QAM	25	25	10.65	10.45	10.60	10.56	
10	256QAM	50	0	10.61	10.44	10.46	10.62	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	15.41	15.33	15.36	15.42	16.5
5	QPSK	1	12	15.36	15.26	15.10	15.37	
5	QPSK	1	24	15.17	15.12	15.31	15.30	
5	QPSK	12	0	14.42	14.39	14.41	14.58	15.5
5	QPSK	12	7	14.53	14.46	14.55	14.59	
5	QPSK	12	13	14.60	14.55	14.65	14.63	
5	QPSK	25	0	14.64	14.46	14.51	14.58	15.5
5	16QAM	1	0	14.27	14.24	14.16	14.30	
5	16QAM	1	12	14.40	14.24	14.29	14.43	
5	16QAM	1	24	14.33	14.24	14.36	14.24	14.5
5	16QAM	12	0	13.49	13.44	13.43	13.56	
5	16QAM	12	7	13.62	13.48	13.47	13.62	
5	16QAM	12	13	13.62	13.42	13.60	13.52	14.5
5	16QAM	25	0	13.58	13.48	13.52	13.57	
5	64QAM	1	0	13.28	13.37	13.17	13.43	
5	64QAM	1	12	13.42	13.19	13.43	13.43	14.5
5	64QAM	1	24	13.39	13.26	13.34	13.33	
5	64QAM	12	0	12.50	12.47	12.44	12.52	
5	64QAM	12	7	12.63	12.45	12.45	12.57	13.5
5	64QAM	12	13	12.65	12.46	12.62	12.61	
5	64QAM	25	0	12.54	12.53	12.45	12.62	
5	256QAM	1	0	10.32	10.43	10.37	10.46	11.5
5	256QAM	1	12	10.43	10.32	10.37	10.42	
5	256QAM	1	24	10.53	10.38	10.48	10.44	
5	256QAM	12	0	10.49	10.39	10.41	10.54	11.5
5	256QAM	12	7	10.54	10.43	10.46	10.56	
5	256QAM	12	13	10.56	10.41	10.57	10.58	
5	256QAM	25	0	10.62	10.48	10.48	10.63	



<FR1 n2 Main Ant State 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	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	16.30	16.39	16.29	
20	PI/2 BPSK	1	53	16.30	16.33	16.31	
20	PI/2 BPSK	1	104	16.21	16.31	16.28	
20	PI/2 BPSK	50	0	16.28	16.34	16.27	17.5
20	PI/2 BPSK	50	28	16.27	16.35	16.26	17.5
20	PI/2 BPSK	50	56	16.31	16.32	16.30	17.5
20	PI/2 BPSK	100	0	16.29	16.36	16.28	
20	QPSK	1	1	16.29	16.38	16.35	
20	QPSK	1	53	16.33	16.34	16.31	17.5
20	QPSK	1	104	16.26	16.36	16.33	
20	QPSK	50	0	16.35	16.37	16.33	
20	QPSK	50	28	16.21	16.31	16.27	17.5
20	QPSK	50	56	16.31	16.32	16.30	17.5
20	QPSK	100	0	16.36	16.36	16.31	
20	16QAM	1	1	16.33	16.38	16.36	
20	64QAM	1	1	16.21	16.23	16.13	17.5
20	256QAM	1	1	16.25	16.34	16.32	17.5
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	16.20	16.30	16.20	17.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	16.25	16.32	16.26	17.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	16.21	16.37	16.23	17.5



<u><FR1 n2 MIMO2 Ant State 2></u>							
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	20.0
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	18.61	18.51	18.38	
20	PI/2 BPSK	1	53	18.51	18.44	18.41	20.0
20	PI/2 BPSK	1	104	18.45	18.38	18.42	
20	PI/2 BPSK	50	0	18.51	18.45	18.58	
20	PI/2 BPSK	50	28	18.38	18.40	18.31	20.0
20	PI/2 BPSK	50	56	18.17	18.37	18.34	20.0
20	PI/2 BPSK	100	0	18.35	18.40	18.21	
20	QPSK	1	1	18.50	18.52	18.48	
20	QPSK	1	53	18.29	18.42	18.45	20.0
20	QPSK	1	104	18.32	18.40	18.47	
20	QPSK	50	0	18.37	18.48	18.57	
20	QPSK	50	28	18.50	18.45	18.55	20.0
20	QPSK	50	56	18.24	18.37	18.30	20.0
20	QPSK	100	0	18.50	18.42	18.27	
20	16QAM	1	1	18.45	18.45	18.44	
20	64QAM	1	1	18.36	18.30	18.17	19.5
20	256QAM	1	1	18.12	18.00	18.18	18.5
Channel				371500	376000	380500	20.0
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	18.52	18.46	18.41	
Channel				371000	376000	381000	20.0
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	18.34	18.51	18.49	
Channel				370500	376000	381500	20.0
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	18.53	18.42	18.45	



<FR1 n2 Main Ant State 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	18.5
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	17.55	17.59	17.47	
20	PI/2 BPSK	1	53	17.54	17.53	17.43	18.5
20	PI/2 BPSK	1	104	17.47	17.48	17.45	
20	PI/2 BPSK	50	0	17.45	17.55	17.45	
20	PI/2 BPSK	50	28	17.50	17.54	17.51	18.5
20	PI/2 BPSK	50	56	17.49	17.50	17.41	
20	PI/2 BPSK	100	0	17.51	17.54	17.50	
20	QPSK	1	1	17.56	17.57	17.50	18.5
20	QPSK	1	53	17.54	17.54	17.53	
20	QPSK	1	104	17.45	17.48	17.39	
20	QPSK	50	0	17.54	17.54	17.45	18.5
20	QPSK	50	28	17.49	17.52	17.52	
20	QPSK	50	56	17.42	17.47	17.38	
20	QPSK	100	0	17.51	17.54	17.46	18.5
20	16QAM	1	1	17.45	17.48	17.42	
20	64QAM	1	1	17.40	17.50	17.41	
20	256QAM	1	1	17.53	17.57	17.47	18.5
Channel				371500	376000	380500	18.5
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	17.41	17.52	17.36	18.5
Channel				371000	376000	381000	
Frequency (MHz)				1855	1880	1905	18.5
10	PI/2 BPSK	1	1	17.52	17.52	17.38	
Channel				370500	376000	381500	18.5
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	17.45	17.48	17.43	18.5



<u><FR1 n2 MIMO2 Ant State 3></u>							
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	15.0
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	14.63	14.58	14.48	
20	PI/2 BPSK	1	53	14.55	14.50	14.36	15.0
20	PI/2 BPSK	1	104	14.46	14.46	14.30	
20	PI/2 BPSK	50	0	14.48	14.51	14.36	
20	PI/2 BPSK	50	28	14.51	14.49	14.39	15.0
20	PI/2 BPSK	50	56	14.47	14.50	14.31	15.0
20	PI/2 BPSK	100	0	14.52	14.54	14.39	
20	QPSK	1	1	14.62	14.57	14.47	
20	QPSK	1	53	14.50	14.52	14.36	15.0
20	QPSK	1	104	14.53	14.49	14.36	
20	QPSK	50	0	14.49	14.53	14.43	
20	QPSK	50	28	14.54	14.50	14.40	15.0
20	QPSK	50	56	14.51	14.48	14.31	15.0
20	QPSK	100	0	14.54	14.49	14.37	
20	16QAM	1	1	14.38	14.38	14.26	
20	64QAM	1	1	14.39	14.39	14.28	15.0
20	256QAM	1	1	14.51	14.50	14.39	15.0
Channel				371500	376000	380500	15.0
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	14.55	14.55	14.47	
Channel				371000	376000	381000	15.0
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	14.45	14.50	14.38	
Channel				370500	376000	381500	15.0
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	14.40	14.47	14.32	



<FR1 n5 Main Ant State 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	23.0
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	22.63	22.57	22.48	
20	PI/2 BPSK	1	53	22.55	22.46	22.43	23.0
20	PI/2 BPSK	1	104	22.53	22.50	22.46	
20	PI/2 BPSK	50	0	22.62	22.56	22.53	
20	PI/2 BPSK	50	28	22.53	22.53	22.47	23.0
20	PI/2 BPSK	50	56	22.57	22.55	22.51	23.0
20	PI/2 BPSK	100	0	22.61	22.56	22.51	
20	QPSK	1	1	22.62	22.53	22.52	
20	QPSK	1	53	22.54	22.50	22.40	23.0
20	QPSK	1	104	22.61	22.51	22.47	
20	QPSK	50	0	22.59	22.56	22.51	
20	QPSK	50	28	22.56	22.52	22.45	23.0
20	QPSK	50	56	22.52	22.51	22.50	23.0
20	QPSK	100	0	22.55	22.55	22.49	
20	16QAM	1	1	22.60	22.56	22.47	
20	64QAM	1	1	21.40	21.31	21.28	22.5
20	256QAM	1	1	19.15	19.08	19.01	20.5
Channel				166300	167300	168300	23.0
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	22.51	22.49	22.37	
Channel				165800	167300	168800	23.0
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	22.47	22.41	22.40	
Channel				165300	167300	169300	23.0
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	22.53	22.40	22.33	



<FR1 n5 Main Ant State 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	20.5
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	20.25	20.24	20.13	
20	PI/2 BPSK	1	53	20.06	20.08	19.92	20.5
20	PI/2 BPSK	1	104	20.04	20.03	19.82	
20	PI/2 BPSK	50	0	19.97	20.02	20.10	
20	PI/2 BPSK	50	28	20.02	20.11	19.96	20.5
20	PI/2 BPSK	50	56	20.10	20.13	19.98	20.5
20	PI/2 BPSK	100	0	20.02	20.10	19.90	
20	QPSK	1	1	19.98	20.04	19.85	
20	QPSK	1	53	20.03	20.06	19.93	20.5
20	QPSK	1	104	19.93	19.95	19.79	
20	QPSK	50	0	19.98	19.99	19.84	
20	QPSK	50	28	20.04	20.11	19.93	20.5
20	QPSK	50	56	20.07	20.09	19.94	20.5
20	QPSK	100	0	20.08	20.10	19.99	
20	16QAM	1	1	20.17	20.16	20.05	
20	64QAM	1	1	20.16	20.23	20.03	20.5
20	256QAM	1	1	19.04	19.04	18.89	19.5
Channel				166300	167300	168300	20.5
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	20.21	20.23	20.04	
Channel				165800	167300	168800	20.5
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	20.23	20.18	20.10	
Channel				165300	167300	169300	20.5
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	20.20	20.17	20.09	



<FR1 n7 Main Ant State 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				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	17.16	17.24	17.21	
40	PI/2 BPSK	1	108	17.06	17.16	17.10	17.5
40	PI/2 BPSK	1	214	17.22	17.23	17.13	
40	PI/2 BPSK	108	0	17.05	17.13	17.12	
40	PI/2 BPSK	108	54	17.06	17.08	17.00	17.5
40	PI/2 BPSK	108	108	17.11	17.12	17.03	17.5
40	PI/2 BPSK	216	0	17.08	17.15	17.08	
40	QPSK	1	1	17.09	17.11	17.01	
40	QPSK	1	108	17.12	17.16	17.07	17.5
40	QPSK	1	214	17.15	17.19	17.09	
40	QPSK	108	0	17.07	17.12	17.10	
40	QPSK	108	54	17.07	17.08	17.05	17.5
40	QPSK	108	108	17.03	17.09	17.08	17.5
40	QPSK	216	0	17.03	17.13	17.05	
40	16QAM	1	1	17.01	17.05	16.99	
40	64QAM	1	1	17.02	17.06	16.98	17.5
40	256QAM	1	1	17.14	17.18	17.12	17.5
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	17.16	17.18	17.17	
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	17.12	17.19	17.21	
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	17.13	17.15	17.12	
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	17.11	17.19	17.19	
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	17.15	17.19	17.21	
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	17.14	17.17	17.15	



<FR1 n7 MIMO2 Ant State 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				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	20.81	20.79	20.80	
40	PI/2 BPSK	1	108	20.74	20.76	20.77	
40	PI/2 BPSK	1	214	20.61	20.71	20.61	
40	PI/2 BPSK	108	0	20.77	20.77	20.75	21.0
40	PI/2 BPSK	108	54	20.73	20.73	20.64	21.0
40	PI/2 BPSK	108	108	20.56	20.61	20.62	21.0
40	PI/2 BPSK	216	0	20.61	20.71	20.69	
40	QPSK	1	1	20.77	20.78	20.75	21.0
40	QPSK	1	108	20.72	20.74	20.65	
40	QPSK	1	214	20.73	20.76	20.69	
40	QPSK	108	0	20.80	20.71	20.69	21.0
40	QPSK	108	54	20.66	20.70	20.60	21.0
40	QPSK	108	108	20.79	20.72	20.75	21.0
40	QPSK	216	0	20.71	20.75	20.74	
40	16QAM	1	1	20.76	20.72	20.78	21.0
40	64QAM	1	1	20.53	20.56	20.65	21.0
40	256QAM	1	1	18.35	18.36	18.35	20.0
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	20.77	20.73	20.78	21.0
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	20.80	20.69	20.72	21.0
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	20.73	20.81	20.75	21.0
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	20.67	20.63	20.72	21.0
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	20.58	20.65	20.78	21.0
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	20.59	20.57	20.80	21.0



<FR1 n7 Main Ant State 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				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	18.20	18.25	18.18	
40	PI/2 BPSK	1	108	17.99	18.07	17.82	18.5
40	PI/2 BPSK	1	214	18.03	18.19	18.15	
40	PI/2 BPSK	108	0	18.01	18.17	17.91	
40	PI/2 BPSK	108	54	17.80	17.93	17.79	18.5
40	PI/2 BPSK	108	108	18.08	18.02	17.99	18.5
40	PI/2 BPSK	216	0	17.88	18.02	17.97	
40	QPSK	1	1	17.85	18.07	17.88	
40	QPSK	1	108	17.97	18.24	18.02	18.5
40	QPSK	1	214	18.01	18.16	17.97	
40	QPSK	108	0	17.91	18.05	18.01	
40	QPSK	108	54	17.95	18.04	17.79	18.5
40	QPSK	108	108	17.99	18.23	18.01	18.5
40	QPSK	216	0	17.95	18.03	17.88	
40	16QAM	1	1	17.91	18.07	17.96	
40	64QAM	1	1	18.07	18.20	18.09	18.5
40	256QAM	1	1	18.00	18.15	18.17	18.5
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	18.18	18.21	18.12	
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	18.17	18.18	18.14	
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	18.11	18.15	18.11	
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	18.20	18.24	18.09	
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	18.18	18.22	18.10	
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	18.13	18.17	18.15	



<div style="text-align: center;"><u><FR1 n7 MIMO2 Ant State 3></u></div>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	15.0
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	13.86	13.96	13.93	
40	PI/2 BPSK	1	108	13.81	13.83	13.88	15.0
40	PI/2 BPSK	1	214	13.27	13.34	13.34	
40	PI/2 BPSK	108	0	13.84	13.92	13.91	
40	PI/2 BPSK	108	54	13.76	13.78	13.80	15.0
40	PI/2 BPSK	108	108	13.82	13.84	13.89	15.0
40	PI/2 BPSK	216	0	13.81	13.86	13.87	
40	QPSK	1	1	13.76	13.87	13.85	
40	QPSK	1	108	13.83	13.94	13.90	15.0
40	QPSK	1	214	13.81	13.90	13.85	
40	QPSK	108	0	13.77	13.89	13.88	
40	QPSK	108	54	13.75	13.82	13.77	15.0
40	QPSK	108	108	13.84	13.93	13.89	15.0
40	QPSK	216	0	13.85	13.90	13.90	
40	16QAM	1	1	13.77	13.88	13.89	
40	64QAM	1	1	13.69	13.79	13.82	15.0
40	256QAM	1	1	13.77	13.83	13.82	15.0
Channel				503000	507000	511000	15.0
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	13.80	13.82	13.83	
Channel				502500	507000	511500	15.0
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	13.72	13.75	13.76	
Channel				502000	507000	512000	15.0
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	13.70	13.74	13.75	
Channel				501500	507000	512500	15.0
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	13.65	13.68	13.75	
Channel				501000	507000	513000	15.0
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	13.60	13.62	13.71	
Channel				500500	507000	513500	15.0
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	13.60	13.57	13.68	



<FR1 n12 Main Ant State 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	23.5
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.69	22.70	22.61	
15	PI/2 BPSK	1	40	22.52	22.57	22.48	23.5
15	PI/2 BPSK	1	77	22.48	22.53	22.45	
15	PI/2 BPSK	36	0	22.54	22.58	22.52	
15	PI/2 BPSK	36	22	22.46	22.53	22.43	23.5
15	PI/2 BPSK	36	43	22.49	22.55	22.45	23.5
15	PI/2 BPSK	75	0	22.53	22.54	22.47	
15	QPSK	1	1	22.63	22.67	22.64	
15	QPSK	1	40	22.55	22.63	22.62	23.5
15	QPSK	1	77	22.56	22.58	22.51	
15	QPSK	36	0	22.51	22.60	22.51	
15	QPSK	36	22	22.54	22.56	22.54	23.5
15	QPSK	36	43	22.49	22.54	22.50	23.0
15	QPSK	75	0	22.49	22.59	22.53	
15	16QAM	1	1	22.52	22.60	22.59	
15	64QAM	1	1	21.41	21.47	21.46	21.5
	256QAM	1	1	19.24	19.30	19.23	19.5
Channel				140800	141500	142200	23.5
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.69	22.68	22.51	
Channel				140300	141500	142700	23.5
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.65	22.65	22.51	



<FR1 n12 Main Ant. State 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	23.5
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.69	22.70	22.61	
15	PI/2 BPSK	1	40	22.52	22.57	22.48	23.5
15	PI/2 BPSK	1	77	22.48	22.53	22.45	
15	PI/2 BPSK	36	0	22.54	22.58	22.52	
15	PI/2 BPSK	36	22	22.46	22.53	22.43	23.5
15	PI/2 BPSK	36	43	22.49	22.55	22.45	23.5
15	PI/2 BPSK	75	0	22.53	22.54	22.47	
15	QPSK	1	1	22.63	22.67	22.64	
15	QPSK	1	40	22.55	22.63	22.62	23.5
15	QPSK	1	77	22.56	22.58	22.51	
15	QPSK	36	0	22.51	22.60	22.51	
15	QPSK	36	22	22.54	22.56	22.54	23.5
15	QPSK	36	43	22.49	22.54	22.50	23.0
15	QPSK	75	0	22.49	22.59	22.53	
15	16QAM	1	1	22.52	22.60	22.59	
15	64QAM	1	1	21.41	21.47	21.46	21.5
	256QAM	1	1	19.24	19.30	19.23	19.5
Channel				140800	141500	142200	23.5
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.69	22.68	22.51	
Channel				140300	141500	142700	23.5
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.65	22.65	22.51	



<FR1 n13 Main Ant. State 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					156400		23.0
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		22.62		23.0
10	PI/2 BPSK	1	26		22.57		
10	PI/2 BPSK	1	50		22.60		
10	PI/2 BPSK	25	0		22.60		23.0
10	PI/2 BPSK	25	14		22.55		23.0
10	PI/2 BPSK	25	27		22.47		23.0
10	PI/2 BPSK	50	0		22.59		
10	QPSK	1	1		22.49		23.0
10	QPSK	1	26		22.59		
10	QPSK	1	50		22.53		
10	QPSK	25	0		22.58		23.0
10	QPSK	25	14		22.55		23.0
10	QPSK	25	27		22.48		23.0
10	QPSK	50	0		22.56		
10	16QAM	1	1		22.48		23.0
10	64QAM	1	1		21.23		22.5
10	256QAM	1	1		18.98		20.5
Channel				155900	156400	156900	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	PI/2 BPSK	1	1	22.51	22.58	22.54	23.0

<FR1 n13 Main Ant. State 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					156400		23.5
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		22.62		23.5
10	PI/2 BPSK	1	26		22.57		
10	PI/2 BPSK	1	50		22.60		
10	PI/2 BPSK	25	0		22.60		23.5
10	PI/2 BPSK	25	14		22.55		23.5
10	PI/2 BPSK	25	27		22.47		23.5
10	PI/2 BPSK	50	0		22.59		
10	QPSK	1	1		22.49		23.5
10	QPSK	1	26		22.59		
10	QPSK	1	50		22.53		
10	QPSK	25	0		22.58		23.5
10	QPSK	25	14		22.55		23.5
10	QPSK	25	27		22.48		23.5
10	QPSK	50	0		22.56		
10	16QAM	1	1		22.48		23.5
10	64QAM	1	1		21.23		23.0
10	256QAM	1	1		18.98		20.0
Channel				155900	156400	156900	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	PI/2 BPSK	1	1	22.51	22.58	22.54	23.5



<FR1 n14 Main Ant. State 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		23.0
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		22.80		23.0
10	PI/2 BPSK	1	26		22.63		
10	PI/2 BPSK	1	50		22.54		
10	PI/2 BPSK	25	0		22.65		23.0
10	PI/2 BPSK	25	14		22.63		23.0
10	PI/2 BPSK	25	27		22.52		23.0
10	PI/2 BPSK	50	0		22.67		
10	QPSK	1	1		22.77		23.0
10	QPSK	1	26		22.66		
10	QPSK	1	50		22.56		
10	QPSK	25	0		22.59		23.0
10	QPSK	25	14		22.63		23.0
10	QPSK	25	27		22.57		23.0
10	QPSK	50	0		22.66		
10	16QAM	1	1		22.67		23.0
10	64QAM	1	1		21.65		22.5
10	256QAM	1	1		19.16		20.5
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	22.71	22.74	22.68	23.0

<FR1 n14 Main Ant. State 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		22.5
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		21.86		22.5
10	PI/2 BPSK	1	26		21.63		
10	PI/2 BPSK	1	50		21.62		
10	PI/2 BPSK	25	0		21.73		22.5
10	PI/2 BPSK	25	14		21.63		22.5
10	PI/2 BPSK	25	27		21.60		22.5
10	PI/2 BPSK	50	0		21.65		
10	QPSK	1	1		21.73		22.5
10	QPSK	1	26		21.60		
10	QPSK	1	50		21.58		
10	QPSK	25	0		21.77		22.5
10	QPSK	25	14		21.63		22.5
10	QPSK	25	27		21.64		22.5
10	QPSK	50	0		21.66		
10	16QAM	1	1		21.82		22.5
10	64QAM	1	1		21.60		22.5
10	256QAM	1	1		19.18		21.0
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	21.81	21.79	21.75	22.5



<FR1 n25 Main Ant. State 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	17.5
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	16.43	16.46	16.41	
40	PI/2 BPSK	1	108	16.24	16.32	16.27	17.5
40	PI/2 BPSK	1	214	16.28	16.37	16.35	
40	PI/2 BPSK	108	0	16.40	16.45	16.37	
40	PI/2 BPSK	108	54	16.31	16.33	16.24	17.5
40	PI/2 BPSK	108	108	16.30	16.31	16.21	
40	PI/2 BPSK	216	0	16.33	16.36	16.30	
40	QPSK	1	1	16.37	16.37	16.33	17.5
40	QPSK	1	108	16.41	16.41	16.33	
40	QPSK	1	214	16.41	16.42	16.40	
40	QPSK	108	0	16.35	16.45	16.38	17.5
40	QPSK	108	54	16.31	16.32	16.32	
40	QPSK	108	108	16.40	16.44	16.38	
40	QPSK	216	0	16.28	16.38	16.35	17.5
40	16QAM	1	1	16.25	16.29	16.24	
40	64QAM	1	1	16.30	16.34	16.25	
40	256QAM	1	1	16.37	16.42	16.33	17.5
Channel				373000	376500	380000	17.5
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	16.40	16.38	16.41	
Channel				372500	376500	380500	17.5
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	16.37	16.37	16.32	
Channel				372000	376500	381000	17.5
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	16.34	16.36	16.37	
Channel				371500	376500	381500	17.5
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	16.36	16.41	16.36	
Channel				371000	376500	382000	17.5
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	16.42	16.37	16.38	
Channel				370500	376500	382500	17.5
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	16.38	16.37	16.39	



<div style="text-align: center;"><FR1 n25 MIMO2 Ant State 2></div>							
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	19.0
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	18.55	18.64	18.48	
40	PI/2 BPSK	1	108	18.47	18.56	18.39	19.0
40	PI/2 BPSK	1	214	18.40	18.53	18.32	
40	PI/2 BPSK	108	0	18.40	18.57	18.31	
40	PI/2 BPSK	108	54	18.44	18.55	18.29	19.0
40	PI/2 BPSK	108	108	18.43	18.56	18.33	19.0
40	PI/2 BPSK	216	0	18.48	18.62	18.36	
40	QPSK	1	1	18.42	18.57	18.33	
40	QPSK	1	108	18.39	18.52	18.31	19.0
40	QPSK	1	214	18.39	18.53	18.29	
40	QPSK	108	0	18.48	18.57	18.38	
40	QPSK	108	54	18.45	18.56	18.39	19.0
40	QPSK	108	108	18.45	18.58	18.42	19.0
40	QPSK	216	0	18.48	18.60	18.42	
40	16QAM	1	1	18.37	18.54	18.35	
40	64QAM	1	1	18.45	18.58	18.34	19.0
40	256QAM	1	1	18.06	18.19	18.07	19.0
Channel				373000	376500	380000	19.0
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	18.51	18.57	18.48	
Channel				372500	376500	380500	19.0
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	18.48	18.52	18.45	
Channel				372000	376500	381000	19.0
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	18.46	18.47	18.45	
Channel				371500	376500	381500	19.0
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	18.46	18.41	18.44	
Channel				371000	376500	382000	19.0
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	18.40	18.39	18.35	
Channel				370500	376500	382500	19.0
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	18.33	18.30	18.29	



<FR1 n25 Main Ant. State 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	18.0
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	17.65	17.76	17.71	
40	PI/2 BPSK	1	108	17.59	17.62	17.57	18.0
40	PI/2 BPSK	1	214	17.49	17.54	17.46	
40	PI/2 BPSK	108	0	17.59	17.60	17.59	
40	PI/2 BPSK	108	54	17.47	17.50	17.46	18.0
40	PI/2 BPSK	108	108	17.54	17.58	17.50	18.0
40	PI/2 BPSK	216	0	17.46	17.56	17.47	
40	QPSK	1	1	17.49	17.49	17.41	
40	QPSK	1	108	17.58	17.59	17.54	18.0
40	QPSK	1	214	17.52	17.56	17.49	
40	QPSK	108	0	17.51	17.58	17.51	
40	QPSK	108	54	17.43	17.53	17.44	18.0
40	QPSK	108	108	17.55	17.58	17.56	18.0
40	QPSK	216	0	17.46	17.55	17.51	
40	16QAM	1	1	17.56	17.57	17.54	
40	64QAM	1	1	17.46	17.50	17.43	18.0
40	256QAM	1	1	17.50	17.53	17.52	18.0
Channel				373000	376500	380000	18.0
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	17.58	17.67	17.65	
Channel				372500	376500	380500	18.0
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	17.55	17.71	17.64	
Channel				372000	376500	381000	18.0
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	17.61	17.75	17.65	
Channel				371500	376500	381500	18.0
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	17.64	17.71	17.65	
Channel				371000	376500	382000	18.0
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	17.57	17.67	17.68	
Channel				370500	376500	382500	18.0
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	17.59	17.73	17.64	



<FR1 n25 MIMO2 Ant State 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	15.5
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	14.79	14.72	14.61	
40	PI/2 BPSK	1	108	14.65	14.68	14.47	15.5
40	PI/2 BPSK	1	214	14.63	14.65	14.44	
40	PI/2 BPSK	108	0	14.70	14.64	14.48	
40	PI/2 BPSK	108	54	14.65	14.62	14.51	15.5
40	PI/2 BPSK	108	108	14.64	14.63	14.47	15.5
40	PI/2 BPSK	216	0	14.74	14.71	14.50	
40	QPSK	1	1	14.73	14.69	14.48	
40	QPSK	1	108	14.71	14.65	14.48	15.5
40	QPSK	1	214	14.63	14.64	14.44	
40	QPSK	108	0	14.74	14.67	14.55	
40	QPSK	108	54	14.70	14.67	14.55	15.5
40	QPSK	108	108	14.64	14.64	14.48	15.5
40	QPSK	216	0	14.73	14.71	14.59	
40	16QAM	1	1	14.61	14.63	14.48	
40	64QAM	1	1	14.67	14.65	14.52	15.5
40	256QAM	1	1	14.66	14.62	14.42	15.5
Channel				373000	376500	380000	15.5
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	14.76	14.70	14.57	
Channel				372500	376500	380500	15.5
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	14.72	14.68	14.53	
Channel				372000	376500	381000	15.5
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	14.63	14.59	14.49	
Channel				371500	376500	381500	15.5
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	14.59	14.56	14.43	
Channel				371000	376500	382000	15.5
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	14.49	14.52	14.37	
Channel				370500	376500	382500	15.5
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	14.47	14.50	14.29	



<FR1 n26 Main Ant State 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	23.0
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	22.41	22.65	22.48	
20	PI/2 BPSK	1	53	22.37	22.54	22.46	23.0
20	PI/2 BPSK	1	104	22.39	22.59	22.55	
20	PI/2 BPSK	50	0	22.56	22.59	22.56	
20	PI/2 BPSK	50	28	22.41	22.49	22.43	23.0
20	PI/2 BPSK	50	56	22.49	22.51	22.34	23.0
20	PI/2 BPSK	100	0	22.52	22.54	22.46	
20	QPSK	1	1	22.44	22.58	22.57	
20	QPSK	1	53	22.31	22.46	22.46	23.0
20	QPSK	1	104	22.47	22.58	22.45	
20	QPSK	50	0	22.49	22.55	22.39	
20	QPSK	50	28	22.30	22.47	22.46	23.0
20	QPSK	50	56	22.34	22.52	22.45	23.0
20	QPSK	100	0	22.40	22.56	22.36	
20	16QAM	1	1	22.29	22.48	22.48	
20	64QAM	1	1	21.21	21.39	21.29	22.5
20	256QAM	1	1	19.11	19.16	19.15	20.5
Channel				164300	166300	168300	23.0
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	22.33	22.54	22.38	
Channel				163800	166300	168800	23.0
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	22.39	22.59	22.48	
Channel				163300	166300	169300	23.0
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	22.40	22.57	22.47	



<FR1 n26 Main Ant State 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	21.0
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	20.18	20.20	20.10	
20	PI/2 BPSK	1	53	19.95	20.01	19.87	21.0
20	PI/2 BPSK	1	104	20.06	20.14	19.95	
20	PI/2 BPSK	50	0	20.06	20.09	19.98	
20	PI/2 BPSK	50	28	20.00	20.04	19.89	21.0
20	PI/2 BPSK	50	56	20.00	20.02	19.84	21.0
20	PI/2 BPSK	100	0	20.09	20.12	20.02	
20	QPSK	1	1	20.10	20.14	19.94	
20	QPSK	1	53	19.90	20.02	19.85	21.0
20	QPSK	1	104	20.05	20.16	19.97	
20	QPSK	50	0	20.06	20.10	19.95	
20	QPSK	50	28	20.01	20.09	19.95	21.0
20	QPSK	50	56	19.94	20.02	19.88	21.0
20	QPSK	100	0	20.03	20.15	19.95	
20	16QAM	1	1	20.10	20.15	19.97	
20	64QAM	1	1	20.17	20.16	20.02	21.0
20	256QAM	1	1	19.13	19.16	19.02	20.0
Channel				164300	166300	168300	21.0
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	20.14	20.13	20.07	
Channel				163800	166300	168800	21.0
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	20.14	20.17	20.06	
Channel				163300	166300	169300	21.0
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	20.12	20.13	20.06	



<FR1 n30 Main Ant. State 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		18.0
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		17.58		18.0
10	PI/2 BPSK	1	26		17.55		
10	PI/2 BPSK	1	50		17.53		
10	PI/2 BPSK	25	0		17.47		18.0
10	PI/2 BPSK	25	14		17.45		18.0
10	PI/2 BPSK	25	27		17.43		18.0
10	PI/2 BPSK	50	0		17.48		
10	QPSK	1	1		17.49		
10	QPSK	1	26		17.51		18.0
10	QPSK	1	50		17.50		
10	QPSK	25	0		17.48		
10	QPSK	25	14		17.46		18.0
10	QPSK	25	27		17.47		18.0
10	QPSK	50	0		17.46		
10	16QAM	1	1		17.50		
10	64QAM	1	1		17.56		18.0
10	256QAM	1	1		17.38		18.0
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	17.49	17.53	17.48	18.0

<FR1 n30 MIMO2 Ant. State 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		20.5
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		19.68		20.5
10	PI/2 BPSK	1	26		19.61		
10	PI/2 BPSK	1	50		19.62		
10	PI/2 BPSK	25	0		19.59		20.5
10	PI/2 BPSK	25	14		19.57		20.5
10	PI/2 BPSK	25	27		19.51		20.5
10	PI/2 BPSK	50	0		19.58		
10	QPSK	1	1		19.61		
10	QPSK	1	26		19.66		20.5
10	QPSK	1	50		19.63		
10	QPSK	25	0		19.55		
10	QPSK	25	14		19.61		20.5
10	QPSK	25	27		19.55		20.5
10	QPSK	50	0		19.56		
10	16QAM	1	1		19.66		
10	64QAM	1	1		19.64		20.5
10	256QAM	1	1		17.52		18.5
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	19.53	19.54	19.57	20.5



<FR1 n30 Main Ant. State 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		18.0
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		17.16		18.0
10	PI/2 BPSK	1	26		17.13		
10	PI/2 BPSK	1	50		17.04		
10	PI/2 BPSK	25	0		17.14		18.0
10	PI/2 BPSK	25	14		17.05		18.0
10	PI/2 BPSK	25	27		16.88		18.0
10	PI/2 BPSK	50	0		17.05		
10	QPSK	1	1		16.85		18.0
10	QPSK	1	26		17.00		
10	QPSK	1	50		16.95		
10	QPSK	25	0		16.94		18.0
10	QPSK	25	14		17.06		18.0
10	QPSK	25	27		16.86		18.0
10	QPSK	50	0		16.92		
10	16QAM	1	1		17.05		18.0
10	64QAM	1	1		17.01		18.0
10	256QAM	1	1		16.92		18.0
Channel				461500	462000	462500	18.0
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	16.97	17.07	17.03	18.0

<FR1 n30 MIMO2 Ant. State 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		16.5
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		15.12		16.5
10	PI/2 BPSK	1	26		15.08		
10	PI/2 BPSK	1	50		15.09		
10	PI/2 BPSK	25	0		15.04		16.5
10	PI/2 BPSK	25	14		15.02		16.5
10	PI/2 BPSK	25	27		15.03		16.5
10	PI/2 BPSK	50	0		15.09		
10	QPSK	1	1		15.11		16.5
10	QPSK	1	26		15.09		
10	QPSK	1	50		15.07		
10	QPSK	25	0		15.04		16.5
10	QPSK	25	14		15.03		16.5
10	QPSK	25	27		15.04		16.5
10	QPSK	50	0		15.07		
10	16QAM	1	1		15.04		16.5
10	64QAM	1	1		15.08		16.5
10	256QAM	1	1		15.07		16.5
Channel				461500	462000	462500	16.5
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	14.68	15.04	14.77	16.5



<FR1 n66 Main Ant. State 2>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	18.5
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	17.94	17.87	17.80	
40	PI/2 BPSK	1	108	17.91	17.80	17.72	18.5
40	PI/2 BPSK	1	214	17.92	17.84	17.74	
40	PI/2 BPSK	108	0	17.93	17.81	17.81	
40	PI/2 BPSK	108	54	17.90	17.78	17.68	18.5
40	PI/2 BPSK	108	108	17.91	17.80	17.80	18.5
40	PI/2 BPSK	216	0	17.91	17.84	17.74	
40	QPSK	1	1	17.85	17.85	17.76	
40	QPSK	1	108	17.85	17.66	17.57	18.5
40	QPSK	1	214	17.88	17.78	17.76	
40	QPSK	108	0	17.91	17.83	17.80	
40	QPSK	108	54	17.89	17.78	17.71	18.5
40	QPSK	108	108	17.87	17.83	17.77	18.5
40	QPSK	216	0	17.34	17.17	17.13	
40	16QAM	1	1	17.85	17.85	17.79	
40	64QAM	1	1	17.88	17.81	17.77	18.5
40	256QAM	1	1	17.90	17.84	17.79	18.5
Channel				345000	349000	353000	18.5
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	17.89	17.75	17.60	
Channel				344000	349000	354000	18.5
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	17.84	17.68	17.79	
Channel				343500	349000	354500	18.5
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	17.78	17.75	17.64	
Channel				343000	349000	355000	18.5
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	17.86	17.84	17.70	
Channel				342500	349000	355500	18.5
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	17.92	17.84	17.79	



<FR1 n66 MIMO2 Ant State 2>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	20.0
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	19.72	19.66	19.58	
40	PI/2 BPSK	1	108	19.50	19.59	19.58	20.0
40	PI/2 BPSK	1	214	19.67	19.58	19.55	
40	PI/2 BPSK	108	0	19.67	19.64	19.51	
40	PI/2 BPSK	108	54	19.46	19.53	19.58	20.0
40	PI/2 BPSK	108	108	19.62	19.56	19.47	20.0
40	PI/2 BPSK	216	0	19.64	19.57	19.53	
40	QPSK	1	1	19.56	19.61	19.52	
40	QPSK	1	108	19.71	19.64	19.67	20.0
40	QPSK	1	214	19.51	19.61	19.59	
40	QPSK	108	0	19.70	19.65	19.69	
40	QPSK	108	54	19.61	19.59	19.49	20.0
40	QPSK	108	108	19.66	19.58	19.56	20.0
40	QPSK	216	0	19.71	19.62	19.54	
40	16QAM	1	1	19.51	19.61	19.64	
40	64QAM	1	1	18.36	18.41	18.51	19.0
40	256QAM	1	1	16.15	16.22	16.13	17.0
Channel				345000	349000	353000	20.0
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	19.63	19.61	19.52	
Channel				344000	349000	354000	20.0
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	19.67	19.63	19.50	
Channel				343500	349000	354500	20.0
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	19.66	19.64	19.50	
Channel				343000	349000	355000	20.0
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	19.64	19.62	19.52	
Channel				342500	349000	355500	20.0
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	19.70	19.66	19.58	



<FR1 n66 Main Ant. State 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				346000	349000	352000	17.0
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	16.60	16.45	16.38	
40	PI/2 BPSK	1	108	16.57	16.35	16.28	17.0
40	PI/2 BPSK	1	214	16.45	16.43	16.28	
40	PI/2 BPSK	108	0	16.53	16.39	16.38	
40	PI/2 BPSK	108	54	16.52	16.36	16.38	17.0
40	PI/2 BPSK	108	108	16.47	16.35	16.39	17.0
40	PI/2 BPSK	216	0	16.57	16.39	16.40	
40	QPSK	1	1	16.36	16.50	16.30	
40	QPSK	1	108	16.54	16.25	16.18	17.0
40	QPSK	1	214	16.55	16.47	16.27	
40	QPSK	108	0	16.52	16.37	16.37	
40	QPSK	108	54	16.43	16.36	16.23	17.0
40	QPSK	108	108	16.49	16.40	16.42	17.0
40	QPSK	216	0	15.86	15.69	15.65	
40	16QAM	1	1	16.54	16.38	16.38	
40	64QAM	1	1	16.44	16.33	16.38	17.0
40	256QAM	1	1	16.50	16.52	16.37	17.0
Channel				345000	349000	353000	17.0
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	16.52	16.35	16.33	
Channel				344000	349000	354000	17.0
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	16.51	16.45	16.30	
Channel				343500	349000	354500	17.0
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	16.55	16.37	16.33	
Channel				343000	349000	355000	17.0
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	16.50	16.43	16.33	
Channel				342500	349000	355500	17.0
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	16.50	16.41	16.38	



<FR1 n66 MIMO2 Ant State 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				346000	349000	352000	17.0
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	16.46	16.40	16.31	
40	PI/2 BPSK	1	108	16.32	16.34	16.22	17.0
40	PI/2 BPSK	1	214	16.34	16.28	16.17	
40	PI/2 BPSK	108	0	16.42	16.38	16.25	
40	PI/2 BPSK	108	54	16.28	16.26	16.09	17.0
40	PI/2 BPSK	108	108	16.32	16.35	16.18	17.0
40	PI/2 BPSK	216	0	16.27	16.29	16.12	
40	QPSK	1	1	16.34	16.38	16.29	
40	QPSK	1	108	16.27	16.25	16.12	17.0
40	QPSK	1	214	16.28	16.27	16.16	
40	QPSK	108	0	16.33	16.34	16.24	
40	QPSK	108	54	16.31	16.27	16.14	17.0
40	QPSK	108	108	16.40	16.37	16.28	17.0
40	QPSK	216	0	16.39	16.36	16.17	
40	16QAM	1	1	16.37	16.32	16.22	
40	64QAM	1	1	16.31	16.35	16.24	17.0
40	256QAM	1	1	16.38	16.39	16.24	17.0
Channel				345000	349000	353000	17.0
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	16.42	16.31	16.22	
Channel				344000	349000	354000	17.0
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	16.38	16.21	16.16	
Channel				343500	349000	354500	17.0
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	16.36	16.12	16.08	
Channel				343000	349000	355000	17.0
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	16.35	16.09	16.02	
Channel				342500	349000	355500	17.0
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	16.32	16.03	15.95	



<FR1 n70 MIMO2 Ant State 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					340500		20.5
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		20.50		20.5
15	PI/2 BPSK	1	40		20.49		
15	PI/2 BPSK	1	77		20.44		
15	PI/2 BPSK	36	0		20.46		20.5
15	PI/2 BPSK	36	22		20.40		20.5
15	PI/2 BPSK	36	43		20.43		20.5
15	PI/2 BPSK	75	0		20.39		
15	QPSK	1	1		20.44		20.5
15	QPSK	1	40		20.46		
15	QPSK	1	77		20.48		
15	QPSK	36	0		20.39		20.5
15	QPSK	36	22		20.41		20.5
15	QPSK	36	43		20.42		20.5
15	QPSK	75	0		20.44		
15	16QAM	1	1		20.48		20.5
15	64QAM	1	1		20.18		20.5
15	256QAM	1	1		17.93		18.5
Channel				340000	340500	341000	20.5
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	20.36	20.48	20.47	20.5
Channel				339500	340500	341500	20.5
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	20.39	20.49	20.45	20.5



<FR1 n70 MIMO2 Ant State 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					340500		18.0
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		16.50		18.0
15	PI/2 BPSK	1	40		16.46		
15	PI/2 BPSK	1	77		16.47		
15	PI/2 BPSK	36	0		16.43		18.0
15	PI/2 BPSK	36	22		16.39		18.0
15	PI/2 BPSK	36	43		16.38		18.0
15	PI/2 BPSK	75	0		16.42		
15	QPSK	1	1		16.48		18.0
15	QPSK	1	40		16.47		
15	QPSK	1	77		16.47		
15	QPSK	36	0		16.40		18.0
15	QPSK	36	22		16.37		18.0
15	QPSK	36	43		16.43		18.0
15	QPSK	75	0		16.41		
15	16QAM	1	1		16.48		18.0
15	64QAM	1	1		16.44		18.0
15	256QAM	1	1		16.43		18.0
Channel				340000	340500	341000	18.0
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	16.39	16.46	16.22	18.0
Channel				339500	340500	341500	18.0
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	16.33	16.44	16.26	18.0



<FR1 n71 Main Ant. State 2>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	23.0
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	22.31	22.49	22.45	
20	PI/2 BPSK	1	53	22.26	22.36	22.38	23.0
20	PI/2 BPSK	1	104	22.18	22.34	22.41	
20	PI/2 BPSK	50	0	22.25	22.36	22.38	
20	PI/2 BPSK	50	28	22.31	22.33	22.34	23.0
20	PI/2 BPSK	50	56	22.13	22.22	22.15	23.0
20	PI/2 BPSK	100	0	22.20	22.35	22.41	
20	QPSK	1	1	22.16	22.36	22.31	
20	QPSK	1	53	22.35	22.35	22.32	23.0
20	QPSK	1	104	22.17	22.36	22.45	
20	QPSK	50	0	22.20	22.37	22.42	
20	QPSK	50	28	22.09	22.29	22.31	23.0
20	QPSK	50	56	22.16	22.21	22.16	22.5
20	QPSK	100	0	22.27	22.31	22.41	
20	16QAM	1	1	22.05	22.18	22.45	
20	64QAM	1	1	20.96	21.57	21.50	22.0
20	256QAM	1	1	18.68	19.30	19.32	19.5
Channel				134100	136100	138100	23.0
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	22.18	22.35	22.34	
Channel				133600	136100	138600	23.0
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	22.16	22.43	22.35	
Channel				133100	136100	139100	23.0
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	22.18	22.39	22.31	



<FR1 n71 Main Ant State 3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	23.5
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	22.31	22.49	22.45	
20	PI/2 BPSK	1	53	22.26	22.36	22.38	23.0
20	PI/2 BPSK	1	104	22.18	22.34	22.41	
20	PI/2 BPSK	50	0	22.25	22.36	22.38	
20	PI/2 BPSK	50	28	22.31	22.33	22.34	23.0
20	PI/2 BPSK	50	56	22.13	22.22	22.15	
20	PI/2 BPSK	100	0	22.20	22.35	22.41	
20	QPSK	1	1	22.16	22.36	22.31	23.5
20	QPSK	1	53	22.35	22.35	22.32	
20	QPSK	1	104	22.17	22.36	22.45	
20	QPSK	50	0	22.20	22.37	22.42	22.5
20	QPSK	50	28	22.09	22.29	22.31	22.5
20	QPSK	50	56	22.16	22.21	22.16	
20	QPSK	100	0	22.27	22.31	22.41	
20	16QAM	1	1	22.05	22.18	22.45	22.5
20	64QAM	1	1	20.96	21.57	21.50	22.0
20	256QAM	1	1	18.68	19.30	19.32	20.0
Channel				134100	136100	138100	23.5
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	22.18	22.35	22.34	
Channel				133600	136100	138600	23.5
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	22.16	22.43	22.35	
Channel				133100	136100	139100	23.5
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	22.18	22.39	22.31	



<FR1 n38 Main Ant State 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				518000	519000	520000	18.0
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	16.90	17.12	17.16	
40	PI/2 BPSK	1	53	16.76	17.01	16.97	18.0
40	PI/2 BPSK	1	104	16.71	16.94	17.06	
40	PI/2 BPSK	50	0	16.64	16.98	17.00	
40	PI/2 BPSK	50	28	16.59	16.96	16.95	18.0
40	PI/2 BPSK	50	56	16.65	16.89	16.92	18.0
40	PI/2 BPSK	100	0	16.71	16.86	16.88	
40	QPSK	1	1	16.56	16.85	16.94	
40	QPSK	1	53	16.67	16.92	16.92	18.0
40	QPSK	1	104	16.79	16.96	17.00	
40	QPSK	50	0	16.62	16.98	16.99	
40	QPSK	50	28	16.71	16.98	17.02	18.0
40	QPSK	50	56	16.63	16.93	16.92	18.0
40	QPSK	100	0	16.64	16.84	16.89	
40	16QAM	1	1	16.89	17.09	17.08	
40	64QAM	1	1	16.75	17.01	17.04	18.0
40	256QAM	1	1	16.63	16.83	16.81	18.0
Channel				517000	519000	521000	18.0
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	16.81	16.92	16.82	
Channel				516000	519000	522000	18.0
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.75	16.91	16.89	
Channel				515500	519000	522500	18.0
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.73	16.91	16.90	
Channel				515000	519000	523000	18.0
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	16.81	16.93	16.88	



<FR1 n38 MIMO2 Ant State 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				518000	519000	520000	21.5
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	20.94	20.86	20.90	
40	PI/2 BPSK	1	53	20.74	20.74	20.70	21.5
40	PI/2 BPSK	1	104	20.79	20.80	20.82	
40	PI/2 BPSK	50	0	20.79	20.74	20.72	
40	PI/2 BPSK	50	28	20.86	20.79	20.83	21.5
40	PI/2 BPSK	50	56	20.77	20.74	20.75	21.5
40	PI/2 BPSK	100	0	20.77	20.77	20.71	
40	QPSK	1	1	20.86	20.84	20.88	
40	QPSK	1	53	20.78	20.76	20.80	21.5
40	QPSK	1	104	20.79	20.81	20.82	
40	QPSK	50	0	20.83	20.78	20.76	
40	QPSK	50	28	20.89	20.81	20.75	21.5
40	QPSK	50	56	20.84	20.78	20.76	21.5
40	QPSK	100	0	20.76	20.70	20.71	
40	16QAM	1	1	20.89	20.83	20.77	
40	64QAM	1	1	20.81	20.80	20.81	21.5
40	256QAM	1	1	19.80	19.78	19.76	20.5
Channel				517000	519000	521000	21.5
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	20.93	20.81	20.85	
Channel				516000	519000	522000	21.5
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	20.93	20.76	20.90	
Channel				515500	519000	522500	21.5
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	20.90	20.79	20.88	
Channel				515000	519000	523000	21.5
Frequency (MHz)					2595	2615	
10	PI/2 BPSK	1	1	20.93	20.76	20.84	



<FR1 n38 Main Ant. State 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				518000	519000	520000	18.5
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	16.82	16.97	16.92	
40	PI/2 BPSK	1	53	16.71	16.86	16.73	18.5
40	PI/2 BPSK	1	104	16.74	16.96	16.85	
40	PI/2 BPSK	50	0	16.57	16.80	16.73	
40	PI/2 BPSK	50	28	16.64	16.85	16.75	18.5
40	PI/2 BPSK	50	56	16.73	16.92	16.80	18.5
40	PI/2 BPSK	100	0	16.65	16.87	16.82	
40	QPSK	1	1	16.81	16.96	16.91	
40	QPSK	1	53	16.70	16.93	16.85	18.5
40	QPSK	1	104	16.78	16.95	16.82	
40	QPSK	50	0	16.62	16.82	16.71	
40	QPSK	50	28	16.65	16.86	16.75	18.5
40	QPSK	50	56	16.72	16.87	16.80	18.5
40	QPSK	100	0	16.68	16.88	16.77	
40	16QAM	1	1	16.55	16.79	16.73	
40	64QAM	1	1	16.65	16.83	16.70	18.5
40	256QAM	1	1	16.70	16.89	16.80	18.5
Channel				517000	519000	521000	18.5
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	16.81	16.92	16.82	
Channel				516000	519000	522000	18.5
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.75	16.91	16.89	
Channel				515500	519000	522500	18.5
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.73	16.91	16.90	
Channel				515000	519000	523000	18.5
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	16.81	16.93	16.88	



<FR1 n38 MIMO2 Ant State 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				518000	519000	520000	15.0
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	14.05	14.06	14.12	
40	PI/2 BPSK	1	53	13.92	13.99	14.00	15.0
40	PI/2 BPSK	1	104	14.00	14.05	14.09	
40	PI/2 BPSK	50	0	13.89	13.97	14.00	
40	PI/2 BPSK	50	28	13.88	13.95	13.93	15.0
40	PI/2 BPSK	50	56	13.86	13.94	13.98	15.0
40	PI/2 BPSK	100	0	13.97	13.98	13.98	
40	QPSK	1	1	13.98	13.99	13.97	
40	QPSK	1	53	13.94	14.03	14.04	15.0
40	QPSK	1	104	13.98	14.04	14.04	
40	QPSK	50	0	13.82	13.93	13.92	
40	QPSK	50	28	13.93	13.95	13.93	15.0
40	QPSK	50	56	13.91	13.92	13.89	15.0
40	QPSK	100	0	13.91	13.96	13.99	
40	16QAM	1	1	13.95	13.97	13.93	
40	64QAM	1	1	13.84	13.92	13.89	15.0
40	256QAM	1	1	13.86	13.94	13.93	15.0
Channel				517000	519000	521000	15.0
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	13.87	13.94	13.99	
Channel				516000	519000	522000	15.0
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	13.78	13.90	13.97	
Channel				515500	519000	522500	15.0
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	13.78	13.82	13.87	
Channel				515000	519000	523000	15.0
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	13.72	13.77	13.77	



<FR1 n38 MIMO1 Ant State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	14.5
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	14.04	14.05	13.98	
40	PI/2 BPSK	1	53	14.00	14.01	14.00	14.5
40	PI/2 BPSK	1	104	13.93	13.94	14.03	
40	PI/2 BPSK	50	0	13.96	13.95	14.02	
40	PI/2 BPSK	50	28	13.95	13.98	13.94	14.5
40	PI/2 BPSK	50	56	13.91	13.96	13.99	
40	PI/2 BPSK	100	0	14.02	14.04	13.96	
40	QPSK	1	1	13.98	14.04	14.03	14.5
40	QPSK	1	53	13.94	14.01	14.00	
40	QPSK	1	104	13.97	13.91	13.89	
40	QPSK	50	0	14.04	13.96	13.96	14.5
40	QPSK	50	28	13.94	13.95	13.92	
40	QPSK	50	56	13.85	13.89	13.98	
40	QPSK	100	0	14.03	14.05	13.94	14.5
40	16QAM	1	1	14.04	13.92	13.96	
40	64QAM	1	1	13.94	14.02	14.00	
40	256QAM	1	1	13.94	13.93	13.96	14.5
Channel				517000	519000	521000	
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	13.98	13.96	13.96	14.5
Channel				516000	519000	522000	
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	13.95	13.99	13.92	14.5
Channel				515500	519000	522500	
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	14.03	13.95	13.95	14.5
Channel				515000	519000	523000	
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	14.02	14.03	13.95	14.5



<u><FR1 n38 Aux Ant State 2/3></u>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	17.5
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	16.96	17.02	16.80	
40	PI/2 BPSK	1	53	16.76	16.78	16.68	17.5
40	PI/2 BPSK	1	104	16.55	16.62	16.61	
40	PI/2 BPSK	50	0	16.72	16.72	16.66	
40	PI/2 BPSK	50	28	16.69	16.76	16.69	17.5
40	PI/2 BPSK	50	56	16.55	16.64	16.52	
40	PI/2 BPSK	100	0	16.61	16.70	16.65	
40	QPSK	1	1	16.63	16.71	16.64	17.5
40	QPSK	1	53	16.62	16.76	16.68	
40	QPSK	1	104	16.61	16.57	16.61	
40	QPSK	50	0	16.67	16.74	16.65	17.5
40	QPSK	50	28	16.69	16.67	16.69	
40	QPSK	50	56	16.63	16.63	16.61	
40	QPSK	100	0	16.58	16.69	16.63	17.5
40	16QAM	1	1	16.74	16.84	16.88	
40	64QAM	1	1	16.80	16.85	16.77	
40	256QAM	1	1	16.70	16.81	16.74	17.5
Channel				517000	519000	521000	
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	16.95	17.01	16.79	17.5
Channel				516000	519000	522000	
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.88	16.99	16.76	17.5
Channel				515500	519000	522500	
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.94	16.93	16.73	17.5
Channel				515000	519000	523000	
Frequency (MHz)					2595	2615	
10	PI/2 BPSK	1	1	16.91	16.95	16.80	17.5



<FR1 n38 HPUE Main Ant. State 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				518000	519000	520000	18.0
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	16.90	17.12	17.16	
40	PI/2 BPSK	1	53	16.76	17.01	16.97	18.0
40	PI/2 BPSK	1	104	16.71	16.94	17.06	
40	PI/2 BPSK	50	0	16.64	16.98	17.00	
40	PI/2 BPSK	50	28	16.59	16.96	16.95	18.0
40	PI/2 BPSK	50	56	16.65	16.89	16.92	
40	PI/2 BPSK	100	0	16.71	16.86	16.88	
40	QPSK	1	1	16.56	16.85	16.94	18.0
40	QPSK	1	53	16.67	16.92	16.92	
40	QPSK	1	104	16.79	16.96	17.00	
40	QPSK	50	0	16.62	16.98	16.99	18.0
40	QPSK	50	28	16.71	16.98	17.02	
40	QPSK	50	56	16.63	16.93	16.92	
40	QPSK	100	0	16.64	16.84	16.89	18.0
40	16QAM	1	1	16.89	17.09	17.08	
40	64QAM	1	1	16.75	17.01	17.04	
40	256QAM	1	1	16.63	16.83	16.81	18.0
Channel				517000	519000	521000	
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	16.81	16.92	16.82	18.0
Channel				516000	519000	522000	
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.75	16.91	16.89	18.0
Channel				515500	519000	522500	
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.73	16.91	16.90	18.0
Channel				515000	519000	523000	
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	16.81	16.93	16.88	18.0



<FR1 n38 HPUE MIMO2 Ant State 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				518000	519000	520000	21.5
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	20.94	20.86	20.90	
40	PI/2 BPSK	1	53	20.74	20.74	20.70	21.5
40	PI/2 BPSK	1	104	20.79	20.80	20.82	
40	PI/2 BPSK	50	0	20.79	20.74	20.72	
40	PI/2 BPSK	50	28	20.86	20.79	20.83	21.5
40	PI/2 BPSK	50	56	20.77	20.74	20.75	
40	PI/2 BPSK	100	0	20.77	20.77	20.71	
40	QPSK	1	1	20.86	20.84	20.88	21.5
40	QPSK	1	53	20.78	20.76	20.80	
40	QPSK	1	104	20.79	20.81	20.82	
40	QPSK	50	0	20.83	20.78	20.76	21.5
40	QPSK	50	28	20.89	20.81	20.75	
40	QPSK	50	56	20.84	20.78	20.76	
40	QPSK	100	0	20.76	20.70	20.71	21.5
40	16QAM	1	1	20.89	20.83	20.77	
40	64QAM	1	1	20.81	20.80	20.81	
40	256QAM	1	1	19.80	19.78	19.76	20.5
Channel				517000	519000	521000	21.5
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	20.93	20.81	20.85	
Channel				516000	519000	522000	21.5
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	20.93	20.76	20.90	
Channel				515500	519000	522500	21.5
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	20.90	20.79	20.88	
Channel				515000	519000	523000	21.5
Frequency (MHz)					2595	2615	
10	PI/2 BPSK	1	1	20.93	20.76	20.84	



<FR1 n38 HPUE Main Ant State 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				518000	519000	520000	18.5
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	16.82	16.97	16.92	
40	PI/2 BPSK	1	53	16.71	16.86	16.73	18.5
40	PI/2 BPSK	1	104	16.74	16.96	16.85	
40	PI/2 BPSK	50	0	16.57	16.80	16.73	
40	PI/2 BPSK	50	28	16.64	16.85	16.75	18.5
40	PI/2 BPSK	50	56	16.73	16.92	16.80	
40	PI/2 BPSK	100	0	16.65	16.87	16.82	
40	QPSK	1	1	16.81	16.96	16.91	18.5
40	QPSK	1	53	16.70	16.93	16.85	
40	QPSK	1	104	16.78	16.95	16.82	
40	QPSK	50	0	16.62	16.82	16.71	18.5
40	QPSK	50	28	16.65	16.86	16.75	
40	QPSK	50	56	16.72	16.87	16.80	
40	QPSK	100	0	16.68	16.88	16.77	18.5
40	16QAM	1	1	16.55	16.79	16.73	
40	64QAM	1	1	16.65	16.83	16.70	
40	256QAM	1	1	16.70	16.89	16.80	18.5
Channel				517000	519000	521000	
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	16.81	16.92	16.82	18.5
Channel				516000	519000	522000	
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.75	16.91	16.89	18.5
Channel				515500	519000	522500	
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.73	16.91	16.90	18.5
Channel				515000	519000	523000	
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	16.81	16.93	16.88	18.5



<FR1 n38 HPUE MIMO2 Ant State 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				518000	519000	520000	15.0
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	14.05	14.06	14.12	
40	PI/2 BPSK	1	53	13.92	13.99	14.00	15.0
40	PI/2 BPSK	1	104	14.00	14.05	14.09	
40	PI/2 BPSK	50	0	13.89	13.97	14.00	
40	PI/2 BPSK	50	28	13.88	13.95	13.93	15.0
40	PI/2 BPSK	50	56	13.86	13.94	13.98	
40	PI/2 BPSK	100	0	13.97	13.98	13.98	
40	QPSK	1	1	13.98	13.99	13.97	15.0
40	QPSK	1	53	13.94	14.03	14.04	
40	QPSK	1	104	13.98	14.04	14.04	
40	QPSK	50	0	13.82	13.93	13.92	15.0
40	QPSK	50	28	13.93	13.95	13.93	
40	QPSK	50	56	13.91	13.92	13.89	
40	QPSK	100	0	13.91	13.96	13.99	15.0
40	16QAM	1	1	13.95	13.97	13.93	15.0
40	64QAM	1	1	13.84	13.92	13.89	15.0
40	256QAM	1	1	13.86	13.94	13.93	15.0
Channel				517000	519000	521000	15.0
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	13.87	13.94	13.99	
Channel				516000	519000	522000	15.0
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	13.78	13.90	13.97	
Channel				515500	519000	522500	15.0
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	13.78	13.82	13.87	
Channel				515000	519000	523000	15.0
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	13.72	13.77	13.77	



<FR1 n38 HPUE MIMO1 Ant. State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	14.5
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	14.04	14.05	13.98	
40	PI/2 BPSK	1	53	14.00	14.01	14.00	14.5
40	PI/2 BPSK	1	104	13.93	13.94	14.03	
40	PI/2 BPSK	50	0	13.96	13.95	14.02	
40	PI/2 BPSK	50	28	13.95	13.98	13.94	14.5
40	PI/2 BPSK	50	56	13.91	13.96	13.99	
40	PI/2 BPSK	100	0	14.02	14.04	13.96	
40	QPSK	1	1	13.98	14.04	14.03	14.5
40	QPSK	1	53	13.94	14.01	14.00	
40	QPSK	1	104	13.97	13.91	13.89	
40	QPSK	50	0	14.04	13.96	13.96	14.5
40	QPSK	50	28	13.94	13.95	13.92	
40	QPSK	50	56	13.85	13.89	13.98	
40	QPSK	100	0	14.03	14.05	13.94	14.5
40	16QAM	1	1	14.04	13.92	13.96	
40	64QAM	1	1	13.94	14.02	14.00	
40	256QAM	1	1	13.94	13.93	13.96	14.5
Channel				517000	519000	521000	14.5
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	13.98	13.96	13.96	
Channel				516000	519000	522000	14.5
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	13.95	13.99	13.92	
Channel				515500	519000	522500	14.5
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	14.03	13.95	13.95	
Channel				515000	519000	523000	14.5
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	14.02	14.03	13.95	



<FR1 n38 HPUE Aux Ant State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	16.96	17.02	16.80	
40	PI/2 BPSK	1	53	16.76	16.78	16.68	
40	PI/2 BPSK	1	104	16.55	16.62	16.61	
40	PI/2 BPSK	50	0	16.72	16.72	16.66	17.5
40	PI/2 BPSK	50	28	16.69	16.76	16.69	17.5
40	PI/2 BPSK	50	56	16.55	16.64	16.52	17.5
40	PI/2 BPSK	100	0	16.61	16.70	16.65	
40	QPSK	1	1	16.63	16.71	16.64	
40	QPSK	1	53	16.62	16.76	16.68	17.5
40	QPSK	1	104	16.61	16.57	16.61	
40	QPSK	50	0	16.67	16.74	16.65	
40	QPSK	50	28	16.69	16.67	16.69	17.5
40	QPSK	50	56	16.63	16.63	16.61	17.5
40	QPSK	100	0	16.58	16.69	16.63	
40	16QAM	1	1	16.74	16.84	16.88	
40	64QAM	1	1	16.80	16.85	16.77	17.5
40	256QAM	1	1	16.70	16.81	16.74	17.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	16.95	17.01	16.79	
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.88	16.99	16.76	
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.94	16.93	16.73	
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)					2595	2615	
10	PI/2 BPSK	1	1	16.91	16.95	16.80	



<FR1 n41 Main Ant. State 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	18.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.97	17.18	17.19	
100	PI/2 BPSK	1	137	16.84	17.05	17.04	18.0
100	PI/2 BPSK	1	271	16.75	17.03	17.08	
100	PI/2 BPSK	135	0	16.67	16.98	17.04	
100	PI/2 BPSK	135	69	16.66	16.97	16.96	18.0
100	PI/2 BPSK	135	138	16.74	16.96	16.97	18.0
100	PI/2 BPSK	270	0	16.72	16.94	16.96	
100	QPSK	1	1	16.63	16.93	16.94	
100	QPSK	1	137	16.69	16.98	16.95	18.0
100	QPSK	1	271	16.82	17.04	17.10	
100	QPSK	135	0	16.68	16.98	17.04	
100	QPSK	135	69	16.71	16.99	17.02	18.0
100	QPSK	135	138	16.69	16.97	16.97	
100	QPSK	270	0	16.69	16.90	16.92	
100	16QAM	1	1	16.89	17.12	17.15	18.0
100	64QAM	1	1	16.77	17.08	17.12	18.0
100	256QAM	1	1	16.69	16.92	16.88	18.0
Channel				508200	518598	528996	18.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.93	17.09	17.17	
Channel				507204	518598	529998	18.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.87	17.14	17.12	
Channel				506202	518598	531000	18.0
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.94	17.10	17.13	
Channel				505200	518598	531996	18.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.94	17.16	17.11	
Channel				504204	518598	532998	18.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.89	17.16	17.18	
Channel				503202	518598	534000	18.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.87	17.18	17.11	
Channel				502200	518598	534996	18.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.97	17.13	17.14	
Channel				501204	518598	535998	18.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.94	17.08	17.17	



<div style="text-align: center;"><FR1 n41 MIMO2 Ant State 2></div>							
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	21.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.15	21.19	21.13	
100	PI/2 BPSK	1	137	20.99	21.09	20.98	21.5
100	PI/2 BPSK	1	271	21.02	21.11	20.96	
100	PI/2 BPSK	135	0	21.09	21.13	21.04	
100	PI/2 BPSK	135	69	21.05	21.09	21.03	21.5
100	PI/2 BPSK	135	138	21.07	21.11	21.01	
100	PI/2 BPSK	270	0	20.91	21.04	20.88	
100	QPSK	1	1	21.06	21.14	21.06	21.5
100	QPSK	1	137	21.02	21.09	20.94	
100	QPSK	1	271	21.03	21.17	21.07	
100	QPSK	135	0	20.96	21.08	20.95	21.5
100	QPSK	135	69	20.97	21.07	20.96	
100	QPSK	135	138	20.94	21.03	20.93	
100	QPSK	270	0	20.96	21.05	20.96	21.5
100	16QAM	1	1	21.05	21.18	21.09	
100	64QAM	1	1	21.12	21.18	21.07	
100	256QAM	1	1	20.86	20.99	20.89	21.5
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.10	21.14	21.13	21.5
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.12	21.16	21.04	21.5
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.07	21.14	21.04	21.5
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.09	21.17	21.03	21.5
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.08	21.16	21.12	21.5
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.09	21.10	21.11	21.5
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.06	21.12	21.08	21.5
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.11	21.17	21.10	21.5



<FR1 n41 Main Ant. State 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	18.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.97	17.18	17.19	
100	PI/2 BPSK	1	137	16.84	17.05	17.04	18.5
100	PI/2 BPSK	1	271	16.75	17.03	17.08	
100	PI/2 BPSK	135	0	16.67	16.98	17.04	
100	PI/2 BPSK	135	69	16.66	16.97	16.96	18.5
100	PI/2 BPSK	135	138	16.74	16.96	16.97	18.5
100	PI/2 BPSK	270	0	16.72	16.94	16.96	
100	QPSK	1	1	16.63	16.93	16.94	
100	QPSK	1	137	16.69	16.98	16.95	18.5
100	QPSK	1	271	16.82	17.04	17.10	
100	QPSK	135	0	16.68	16.98	17.04	
100	QPSK	135	69	16.71	16.99	17.02	18.5
100	QPSK	135	138	16.69	16.97	16.97	
100	QPSK	270	0	16.69	16.90	16.92	
100	16QAM	1	1	16.89	17.12	17.15	18.5
100	64QAM	1	1	16.77	17.08	17.12	18.5
100	256QAM	1	1	16.69	16.92	16.88	18.5
Channel				508200	518598	528996	18.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.93	17.09	17.17	
Channel				507204	518598	529998	18.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.87	17.14	17.12	
Channel				506202	518598	531000	18.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.94	17.10	17.13	
Channel				505200	518598	531996	18.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.94	17.16	17.11	
Channel				504204	518598	532998	18.5
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.89	17.16	17.18	
Channel				503202	518598	534000	18.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.87	17.18	17.11	
Channel				502200	518598	534996	18.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.97	17.13	17.14	
Channel				501204	518598	535998	18.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.94	17.08	17.17	



◁FR1 n41 MIMO2 Ant State 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	15.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	14.30	14.23	14.23	
100	PI/2 BPSK	1	137	14.21	14.16	14.13	15.0
100	PI/2 BPSK	1	271	14.25	14.17	14.18	
100	PI/2 BPSK	135	0	14.23	14.17	14.16	
100	PI/2 BPSK	135	69	14.21	14.14	14.14	15.0
100	PI/2 BPSK	135	138	14.21	14.15	14.10	15.0
100	PI/2 BPSK	270	0	14.13	14.13	14.12	
100	QPSK	1	1	14.23	14.18	14.17	
100	QPSK	1	137	14.22	14.16	14.08	15.0
100	QPSK	1	271	14.18	14.20	14.16	
100	QPSK	135	0	14.23	14.16	14.08	
100	QPSK	135	69	14.21	14.15	14.09	15.0
100	QPSK	135	138	14.18	14.14	14.09	
100	QPSK	270	0	14.13	14.10	14.06	
100	16QAM	1	1	14.12	14.09	14.08	15.0
100	64QAM	1	1	14.12	14.11	14.09	15.0
100	256QAM	1	1	14.14	14.07	14.05	15.0
Channel				508200	518598	528996	15.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	14.25	14.20	14.15	
Channel				507204	518598	529998	15.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	14.19	14.17	14.06	
Channel				506202	518598	531000	15.0
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	14.19	14.12	13.96	
Channel				505200	518598	531996	15.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	14.17	14.03	13.95	
Channel				504204	518598	532998	15.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	14.17	14.00	13.90	
Channel				503202	518598	534000	15.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	14.15	13.91	13.80	
Channel				502200	518598	534996	15.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	14.15	13.85	13.70	
Channel				501204	518598	535998	15.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	14.09	13.76	13.64	



<FR1 n41 MIMO1 Ant State 2/3>							
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	14.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	14.16	14.14	14.13	
100	PI/2 BPSK	1	137	14.15	14.10	14.09	14.5
100	PI/2 BPSK	1	271	14.08	14.05	14.09	
100	PI/2 BPSK	135	0	14.13	14.09	14.15	
100	PI/2 BPSK	135	69	14.09	14.06	14.08	14.5
100	PI/2 BPSK	135	138	14.00	14.02	14.08	
100	PI/2 BPSK	270	0	14.14	14.09	14.09	
100	QPSK	1	1	14.09	14.12	14.09	14.5
100	QPSK	1	137	14.09	14.11	14.13	
100	QPSK	1	271	14.02	14.04	14.02	
100	QPSK	135	0	14.10	14.10	14.15	14.5
100	QPSK	135	69	14.07	14.07	14.04	
100	QPSK	135	138	13.97	14.00	14.07	
100	QPSK	270	0	14.14	14.10	14.09	14.5
100	16QAM	1	1	14.10	14.06	14.11	
100	64QAM	1	1	14.08	14.09	14.14	
100	256QAM	1	1	14.08	14.08	14.09	14.5
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	14.15	14.05	14.08	14.5
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	14.05	13.95	14.04	14.5
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	14.03	13.91	14.02	14.5
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	14.08	14.05	14.08	14.5
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	14.10	14.06	14.03	14.5
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	14.06	14.10	14.10	14.5
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	14.08	14.03	14.04	14.5
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	14.13	14.05	14.05	14.5



◁FR1 n41 Aux Ant State 2/3▷							
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	17.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	17.04	16.93	16.81	
100	PI/2 BPSK	1	137	16.76	16.78	16.73	17.5
100	PI/2 BPSK	1	271	16.64	16.68	16.64	
100	PI/2 BPSK	135	0	16.72	16.81	16.72	
100	PI/2 BPSK	135	69	16.75	16.79	16.72	17.5
100	PI/2 BPSK	135	138	16.62	16.70	16.61	
100	PI/2 BPSK	270	0	16.69	16.71	16.71	
100	QPSK	1	1	16.71	16.75	16.71	17.5
100	QPSK	1	137	16.69	16.79	16.76	
100	QPSK	1	271	16.61	16.67	16.64	
100	QPSK	135	0	16.76	16.82	16.75	17.5
100	QPSK	135	69	16.74	16.76	16.71	
100	QPSK	135	138	16.69	16.70	16.68	
100	QPSK	270	0	16.63	16.69	16.65	17.5
100	16QAM	1	1	16.83	16.90	16.89	
100	64QAM	1	1	16.87	16.89	16.84	
100	256QAM	1	1	16.75	16.82	16.78	17.5
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	17.03	16.93	16.72	17.5
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.91	16.87	16.74	17.5
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.89	16.83	16.72	17.5
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	17.02	16.92	16.73	17.5
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.94	16.83	16.73	17.5
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.95	16.87	16.71	17.5
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.94	16.93	16.75	17.5
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.97	16.83	16.75	17.5



<FR1 n41 HPUE Main Ant State 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	18.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.97	17.18	17.19	
100	PI/2 BPSK	1	137	16.84	17.05	17.04	18.0
100	PI/2 BPSK	1	271	16.75	17.03	17.08	
100	PI/2 BPSK	135	0	16.67	16.98	17.04	
100	PI/2 BPSK	135	69	16.66	16.97	16.96	18.0
100	PI/2 BPSK	135	138	16.74	16.96	16.97	18.0
100	PI/2 BPSK	270	0	16.72	16.94	16.96	
100	QPSK	1	1	16.63	16.93	16.94	
100	QPSK	1	137	16.69	16.98	16.95	18.0
100	QPSK	1	271	16.82	17.04	17.10	
100	QPSK	135	0	16.68	16.98	17.04	
100	QPSK	135	69	16.71	16.99	17.02	18.0
100	QPSK	135	138	16.69	16.97	16.97	
100	QPSK	270	0	16.69	16.90	16.92	
100	16QAM	1	1	16.89	17.12	17.15	18.0
100	64QAM	1	1	16.77	17.08	17.12	18.0
100	256QAM	1	1	16.69	16.92	16.88	18.0
Channel				508200	518598	528996	18.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.93	17.09	17.17	
Channel				507204	518598	529998	18.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.87	17.14	17.12	
Channel				506202	518598	531000	18.0
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.94	17.10	17.13	
Channel				505200	518598	531996	18.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.94	17.16	17.11	
Channel				504204	518598	532998	18.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.89	17.16	17.18	
Channel				503202	518598	534000	18.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.87	17.18	17.11	
Channel				502200	518598	534996	18.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.97	17.13	17.14	
Channel				501204	518598	535998	18.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.94	17.08	17.17	



<FR1 n41 HPUE MIMO2 Ant State 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	21.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.15	21.19	21.13	
100	PI/2 BPSK	1	137	20.99	21.09	20.98	21.5
100	PI/2 BPSK	1	271	21.02	21.11	20.96	
100	PI/2 BPSK	135	0	21.09	21.13	21.04	
100	PI/2 BPSK	135	69	21.05	21.09	21.03	21.5
100	PI/2 BPSK	135	138	21.07	21.11	21.01	
100	PI/2 BPSK	270	0	20.91	21.04	20.88	
100	QPSK	1	1	21.06	21.14	21.06	21.5
100	QPSK	1	137	21.02	21.09	20.94	
100	QPSK	1	271	21.03	21.17	21.07	
100	QPSK	135	0	20.96	21.08	20.95	21.5
100	QPSK	135	69	20.97	21.07	20.96	
100	QPSK	135	138	20.94	21.03	20.93	
100	QPSK	270	0	20.96	21.05	20.96	21.5
100	16QAM	1	1	21.05	21.18	21.09	
100	64QAM	1	1	21.12	21.18	21.07	
100	256QAM	1	1	20.86	20.99	20.89	21.5
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.10	21.14	21.13	21.5
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.12	21.16	21.04	21.5
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.07	21.14	21.04	21.5
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.09	21.17	21.03	21.5
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.08	21.16	21.12	21.5
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.09	21.10	21.11	21.5
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.06	21.12	21.08	21.5
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.11	21.17	21.10	21.5



<FR1 n41 HPUE Main Ant State 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	18.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.97	17.18	17.19	
100	PI/2 BPSK	1	137	16.84	17.05	17.04	18.5
100	PI/2 BPSK	1	271	16.75	17.03	17.08	
100	PI/2 BPSK	135	0	16.67	16.98	17.04	
100	PI/2 BPSK	135	69	16.66	16.97	16.96	18.5
100	PI/2 BPSK	135	138	16.74	16.96	16.97	
100	PI/2 BPSK	270	0	16.72	16.94	16.96	
100	QPSK	1	1	16.63	16.93	16.94	18.5
100	QPSK	1	137	16.69	16.98	16.95	
100	QPSK	1	271	16.82	17.04	17.10	
100	QPSK	135	0	16.68	16.98	17.04	18.5
100	QPSK	135	69	16.71	16.99	17.02	
100	QPSK	135	138	16.69	16.97	16.97	
100	QPSK	270	0	16.69	16.90	16.92	18.5
100	16QAM	1	1	16.89	17.12	17.15	
100	64QAM	1	1	16.77	17.08	17.12	
100	256QAM	1	1	16.69	16.92	16.88	18.5
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.93	17.09	17.17	18.5
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.87	17.14	17.12	18.5
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.94	17.10	17.13	18.5
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.94	17.16	17.11	18.5
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.89	17.16	17.18	18.5
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.87	17.18	17.11	18.5
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.97	17.13	17.14	18.5
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.94	17.08	17.17	18.5



◀FR1 n41 HPUE MIMO2 Ant State 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	15.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	14.30	14.23	14.23	
100	PI/2 BPSK	1	137	14.21	14.16	14.13	15.0
100	PI/2 BPSK	1	271	14.25	14.17	14.18	
100	PI/2 BPSK	135	0	14.23	14.17	14.16	
100	PI/2 BPSK	135	69	14.21	14.14	14.14	15.0
100	PI/2 BPSK	135	138	14.21	14.15	14.10	15.0
100	PI/2 BPSK	270	0	14.13	14.13	14.12	
100	QPSK	1	1	14.23	14.18	14.17	
100	QPSK	1	137	14.22	14.16	14.08	15.0
100	QPSK	1	271	14.18	14.20	14.16	
100	QPSK	135	0	14.23	14.16	14.08	
100	QPSK	135	69	14.21	14.15	14.09	15.0
100	QPSK	135	138	14.18	14.14	14.09	
100	QPSK	270	0	14.13	14.10	14.06	
100	16QAM	1	1	14.12	14.09	14.08	15.0
100	64QAM	1	1	14.12	14.11	14.09	15.0
100	256QAM	1	1	14.14	14.07	14.05	15.0
Channel				508200	518598	528996	15.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	14.25	14.20	14.15	
Channel				507204	518598	529998	15.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	14.19	14.17	14.06	
Channel				506202	518598	531000	15.0
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	14.19	14.12	13.96	
Channel				505200	518598	531996	15.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	14.17	14.03	13.95	
Channel				504204	518598	532998	15.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	14.17	14.00	13.90	
Channel				503202	518598	534000	15.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	14.15	13.91	13.80	
Channel				502200	518598	534996	15.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	14.15	13.85	13.70	
Channel				501204	518598	535998	15.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	14.09	13.76	13.64	



<FR1 n41 HPUE MIMO1 Ant. State 2/3>							
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	14.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	14.16	14.14	14.13	
100	PI/2 BPSK	1	137	14.15	14.10	14.09	14.5
100	PI/2 BPSK	1	271	14.08	14.05	14.09	
100	PI/2 BPSK	135	0	14.13	14.09	14.15	
100	PI/2 BPSK	135	69	14.09	14.06	14.08	14.5
100	PI/2 BPSK	135	138	14.00	14.02	14.08	
100	PI/2 BPSK	270	0	14.14	14.09	14.09	
100	QPSK	1	1	14.09	14.12	14.09	14.5
100	QPSK	1	137	14.09	14.11	14.13	
100	QPSK	1	271	14.02	14.04	14.02	
100	QPSK	135	0	14.10	14.10	14.15	14.5
100	QPSK	135	69	14.07	14.07	14.04	
100	QPSK	135	138	13.97	14.00	14.07	
100	QPSK	270	0	14.14	14.10	14.09	14.5
100	16QAM	1	1	14.10	14.06	14.11	
100	64QAM	1	1	14.08	14.09	14.14	
100	256QAM	1	1	14.08	14.08	14.09	14.5
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	14.15	14.05	14.08	14.5
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	14.05	13.95	14.04	14.5
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	14.03	13.91	14.02	14.5
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	14.08	14.05	14.08	14.5
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	14.10	14.06	14.03	14.5
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	14.06	14.10	14.10	14.5
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	14.08	14.03	14.04	14.5
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	14.13	14.05	14.05	14.5



<FR1 n41 HPUE Aux Ant. State 2/3>							
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	17.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.96	17.02	16.80	
100	PI/2 BPSK	1	137	16.76	16.78	16.68	17.5
100	PI/2 BPSK	1	271	16.55	16.62	16.61	
100	PI/2 BPSK	135	0	16.72	16.72	16.66	
100	PI/2 BPSK	135	69	16.69	16.76	16.69	17.5
100	PI/2 BPSK	135	138	16.55	16.64	16.52	
100	PI/2 BPSK	270	0	16.61	16.70	16.65	
100	QPSK	1	1	16.63	16.71	16.64	17.5
100	QPSK	1	137	16.62	16.76	16.68	
100	QPSK	1	271	16.61	16.57	16.61	
100	QPSK	135	0	16.67	16.74	16.65	17.5
100	QPSK	135	69	16.69	16.67	16.69	
100	QPSK	135	138	16.63	16.63	16.61	
100	QPSK	270	0	16.58	16.69	16.63	17.5
100	16QAM	1	1	16.74	16.84	16.88	
100	64QAM	1	1	16.80	16.85	16.77	
100	256QAM	1	1	16.70	16.81	16.74	17.5
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.93	16.90	16.60	17.5
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.94	16.95	16.67	17.5
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.91	16.89	16.62	17.5
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.77	16.92	16.68	17.5
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.94	16.97	16.64	17.5
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.78	16.93	16.77	17.5
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.76	17.01	16.71	17.5
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.77	16.99	16.76	17.5



<FR1 n48 Main Ant. State 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				638000	641666	645332	20.0
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	19.04	19.12	19.07	
40	PI/2 BPSK	1	53	18.79	18.96	18.80	20.0
40	PI/2 BPSK	1	104	18.91	19.02	18.98	
40	PI/2 BPSK	50	0	18.91	18.96	18.93	
40	PI/2 BPSK	50	28	18.88	18.93	18.75	20.0
40	PI/2 BPSK	50	56	18.84	18.95	18.80	20.0
40	PI/2 BPSK	100	0	18.95	18.96	18.81	
40	QPSK	1	1	18.78	18.86	18.77	
40	QPSK	1	53	18.91	18.92	18.78	20.0
40	QPSK	1	104	18.93	19.03	19.01	
40	QPSK	50	0	18.82	18.99	18.92	
40	QPSK	50	28	18.84	18.91	18.85	20.0
40	QPSK	50	56	18.92	18.93	18.80	20.0
40	QPSK	100	0	18.74	18.90	18.83	
40	16QAM	1	1	18.82	18.95	18.89	
40	64QAM	1	1	18.90	18.90	18.72	20.0
40	256QAM	1	1	18.78	18.85	18.71	20.0
Channel				637668	641666	645666	20.0
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	19.01	19.04	19.06	
Channel				637334	641666	646000	20.0
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	18.88	19.04	18.95	
Channel				637000	641666	646332	20.0
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	18.95	19.08	19.01	



<FR1 n48 MIMO2 Ant State 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				638000	641666	645332	18.5
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	18.06	18.12	17.99	
40	PI/2 BPSK	1	53	17.90	17.96	17.92	18.5
40	PI/2 BPSK	1	104	17.98	18.10	17.98	
40	PI/2 BPSK	50	0	17.87	17.94	17.83	
40	PI/2 BPSK	50	28	17.80	17.92	17.81	18.5
40	PI/2 BPSK	50	56	17.79	17.92	17.80	
40	PI/2 BPSK	100	0	17.87	17.93	17.87	
40	QPSK	1	1	17.76	17.92	17.78	18.5
40	QPSK	1	53	17.88	17.97	17.95	
40	QPSK	1	104	17.94	18.02	17.90	
40	QPSK	50	0	17.86	17.92	17.80	18.5
40	QPSK	50	28	17.79	17.93	17.78	
40	QPSK	50	56	17.83	17.96	17.94	
40	QPSK	100	0	17.80	17.92	17.74	18.5
40	16QAM	1	1	17.97	18.06	18.01	
40	64QAM	1	1	17.96	18.01	17.87	
40	256QAM	1	1	17.85	17.98	17.96	18.0
Channel				637668	641666	645666	18.5
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	17.98	18.11	17.91	
Channel				637334	641666	646000	18.5
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	18.06	18.02	17.80	
Channel				637000	641666	646332	18.5
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	18.05	18.05	17.83	



<FR1 n48 Main Ant State 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				638000	641666	645332	21.0
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	20.23	20.28	20.18	
40	PI/2 BPSK	1	53	20.16	20.16	20.16	21.0
40	PI/2 BPSK	1	104	20.03	20.04	19.98	
40	PI/2 BPSK	50	0	20.02	20.06	19.97	
40	PI/2 BPSK	50	28	19.99	20.03	19.96	21.0
40	PI/2 BPSK	50	56	20.00	20.01	19.96	
40	PI/2 BPSK	100	0	19.94	20.04	19.94	
40	QPSK	1	1	19.99	20.00	19.98	21.0
40	QPSK	1	53	20.05	20.14	20.11	
40	QPSK	1	104	20.12	20.22	20.14	
40	QPSK	50	0	19.99	20.03	19.96	21.0
40	QPSK	50	28	19.99	20.02	20.00	
40	QPSK	50	56	20.02	20.04	20.03	
40	QPSK	100	0	19.93	20.03	19.93	21.0
40	16QAM	1	1	19.87	19.94	19.86	21.0
40	64QAM	1	1	20.04	20.08	20.06	21.0
40	256QAM	1	1	20.12	20.12	20.02	21.0
Channel				637668	641666	645666	21.0
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	20.19	20.24	20.17	21.0
Channel				637334	641666	646000	21.0
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	19.97	19.98	19.92	21.0
Channel				637000	641666	646332	21.0
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	20.04	20.16	20.12	21.0



<FR1 n48 MIMO2 Ant State 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				638000	641666	645332	16.0
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	15.61	15.66	15.48	
40	PI/2 BPSK	1	53	15.43	15.50	15.38	16.0
40	PI/2 BPSK	1	104	15.43	15.54	15.37	
40	PI/2 BPSK	50	0	15.38	15.42	15.39	
40	PI/2 BPSK	50	28	15.34	15.41	15.32	16.0
40	PI/2 BPSK	50	56	15.34	15.39	15.27	16.0
40	PI/2 BPSK	100	0	15.35	15.44	15.32	
40	QPSK	1	1	15.37	15.46	15.44	
40	QPSK	1	53	15.33	15.45	15.39	16.0
40	QPSK	1	104	15.44	15.61	15.53	
40	QPSK	50	0	15.41	15.44	15.30	
40	QPSK	50	28	15.39	15.42	15.42	16.0
40	QPSK	50	56	15.38	15.39	15.31	16.0
40	QPSK	100	0	15.25	15.41	15.25	
40	16QAM	1	1	15.40	15.60	15.52	
40	64QAM	1	1	15.56	15.58	15.49	16.0
40	256QAM	1	1	15.36	15.40	15.23	16.0
Channel				637668	641666	645666	16.0
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	15.57	15.50	15.32	
Channel				637334	641666	646000	16.0
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	15.55	15.47	15.37	
Channel				637000	641666	646332	16.0
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	15.51	15.56	15.40	



<FR1 n48 MIMO1 Ant State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	12.82	13.23	13.29	
40	PI/2 BPSK	1	53	12.77	13.20	13.22	14.5
40	PI/2 BPSK	1	104	12.73	13.18	13.19	
40	PI/2 BPSK	50	0	12.75	13.18	13.24	
40	PI/2 BPSK	50	28	12.75	13.14	13.22	14.5
40	PI/2 BPSK	50	56	12.72	13.13	13.22	14.5
40	PI/2 BPSK	100	0	12.76	13.11	13.21	
40	QPSK	1	1	12.71	13.22	13.24	
40	QPSK	1	53	12.79	13.22	13.22	14.5
40	QPSK	1	104	12.72	13.24	13.23	
40	QPSK	50	0	12.74	13.11	13.14	
40	QPSK	50	28	12.77	13.13	13.20	14.5
40	QPSK	50	56	12.73	13.13	13.22	
40	QPSK	100	0	12.75	13.12	13.07	
40	16QAM	1	1	12.65	12.94	13.04	14.5
40	64QAM	1	1	12.91	13.24	13.21	14.5
40	256QAM	1	1	12.89	13.12	13.07	14.5
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	12.66	13.19	13.28	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	12.64	13.16	13.23	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	12.64	13.23	13.25	



<u><FR1 n48 Aux Ant State 2/3></u>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	20.5
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	19.50	19.58	19.52	
40	PI/2 BPSK	1	53	19.45	19.42	19.49	20.5
40	PI/2 BPSK	1	104	19.45	19.37	19.52	
40	PI/2 BPSK	50	0	19.46	19.48	19.42	
40	PI/2 BPSK	50	28	19.34	19.39	19.38	20.5
40	PI/2 BPSK	50	56	19.43	19.37	19.36	20.5
40	PI/2 BPSK	100	0	19.36	19.46	19.42	
40	QPSK	1	1	19.51	19.51	19.55	
40	QPSK	1	53	19.43	19.41	19.51	20.5
40	QPSK	1	104	19.48	19.43	19.46	
40	QPSK	50	0	19.47	19.45	19.47	
40	QPSK	50	28	19.34	19.43	19.35	20.5
40	QPSK	50	56	19.42	19.34	19.47	20.5
40	QPSK	100	0	19.33	19.42	19.29	
40	16QAM	1	1	19.50	19.48	19.48	
40	64QAM	1	1	19.48	19.47	19.38	20.5
40	256QAM	1	1	19.40	19.36	19.34	20.5
Channel				637668	641666	645666	20.5
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	19.50	19.55	19.45	
Channel				637334	641666	646000	20.5
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	19.40	19.53	19.46	
Channel				637000	641666	646332	20.5
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	19.41	19.54	19.48	



<FR1 n77 Main Ant. State 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				650000	656000	662000	18.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.70	17.78	17.72	
100	PI/2 BPSK	1	137	17.60	17.67	17.62	18.0
100	PI/2 BPSK	1	271	17.58	17.66	17.63	
100	PI/2 BPSK	135	0	17.68	17.75	17.65	
100	PI/2 BPSK	135	69	17.63	17.72	17.69	18.0
100	PI/2 BPSK	135	138	17.69	17.70	17.65	18.0
100	PI/2 BPSK	270	0	17.74	17.74	17.72	
100	QPSK	1	1	17.61	17.68	17.63	
100	QPSK	1	137	17.65	17.75	17.69	18.0
100	QPSK	1	271	17.57	17.62	17.55	
100	QPSK	135	0	17.69	17.69	17.69	
100	QPSK	135	69	17.67	17.77	17.73	18.0
100	QPSK	135	138	17.76	17.76	17.74	
100	QPSK	270	0	17.66	17.73	17.65	
100	16QAM	1	1	17.46	17.56	17.46	18.0
100	64QAM	1	1	17.53	17.62	17.53	18.0
100	256QAM	1	1	17.57	17.65	17.65	18.0
Channel				649668	656000	662332	18.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	17.67	17.68	17.67	
Channel				649334	656000	662666	18.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.62	17.74	17.71	
Channel				649000	656000	663000	18.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	17.70	17.71	17.63	
Channel				648668	656000	663332	18.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.62	17.70	17.66	
Channel				648334	656000	663666	18.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	17.64	17.70	17.70	
Channel				648000	656000	664000	18.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.65	17.72	17.63	
Channel				647668	656000	664332	18.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	17.61	17.70	17.62	
Channel				647334	656000	664666	18.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.69	17.77	17.72	
Channel				647168	656000	664832	18.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	17.60	17.76	17.64	
Channel				647000	656000	665000	18.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	17.67	17.73	17.62	



<div style="text-align: center;"><FR1 n77 MIMO2 Ant State 2></div>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	17.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	16.55	16.62	16.60	
100	PI/2 BPSK	1	137	16.41	16.46	16.41	17.5
100	PI/2 BPSK	1	271	16.54	16.60	16.56	
100	PI/2 BPSK	135	0	16.51	16.55	16.51	
100	PI/2 BPSK	135	69	16.53	16.53	16.53	17.5
100	PI/2 BPSK	135	138	16.46	16.50	16.46	
100	PI/2 BPSK	270	0	16.45	16.52	16.44	
100	QPSK	1	1	16.45	16.54	16.47	17.5
100	QPSK	1	137	16.46	16.47	16.41	
100	QPSK	1	271	16.35	16.39	16.31	
100	QPSK	135	0	16.48	16.52	16.42	17.5
100	QPSK	135	69	16.46	16.53	16.53	
100	QPSK	135	138	16.47	16.54	16.52	
100	QPSK	270	0	16.38	16.46	16.36	17.5
100	16QAM	1	1	16.33	16.38	16.33	
100	64QAM	1	1	16.43	16.49	16.48	
100	256QAM	1	1	16.42	16.42	16.35	17.5
Channel				649668	656000	662332	
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	16.51	16.53	16.60	17.5
Channel				649334	656000	662666	
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	16.47	16.60	16.60	17.5
Channel				649000	656000	663000	
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	16.52	16.51	16.56	17.5
Channel				648668	656000	663332	
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	16.52	16.59	16.55	17.5
Channel				648334	656000	663666	
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	16.45	16.54	16.51	17.5
Channel				648000	656000	664000	
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	16.46	16.55	16.55	17.5
Channel				647668	656000	664332	
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	16.53	16.60	16.51	17.5
Channel				647334	656000	664666	
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	16.50	16.52	16.58	17.5
Channel				647168	656000	664832	
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	16.54	16.61	16.54	17.5
Channel				647000	656000	665000	
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	16.51	16.57	16.58	17.5
Channel				647000	656000	665000	
Frequency (MHz)				3705	3840	3975	



<FR1 n77 Main Ant. State 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				650000	656000	662000	22.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.17	22.24	22.26	
100	PI/2 BPSK	1	137	22.09	22.15	22.13	22.5
100	PI/2 BPSK	1	271	22.06	22.14	22.15	
100	PI/2 BPSK	135	0	21.91	22.05	22.07	
100	PI/2 BPSK	135	69	21.84	21.99	22.02	22.5
100	PI/2 BPSK	135	138	21.82	21.93	21.95	
100	PI/2 BPSK	270	0	21.92	21.99	21.96	
100	QPSK	1	1	21.87	21.98	21.95	22.5
100	QPSK	1	137	22.02	22.10	22.12	
100	QPSK	1	271	22.11	22.16	22.12	
100	QPSK	135	0	21.81	21.91	21.91	22.5
100	QPSK	135	69	21.99	22.07	22.07	
100	QPSK	135	138	21.91	22.02	21.97	
100	QPSK	270	0	21.80	21.95	21.95	22.5
100	16QAM	1	1	22.07	22.12	22.11	
100	64QAM	1	1	22.02	22.09	22.04	
100	256QAM	1	1	20.83	20.91	20.94	21.5
Channel				649668	656000	662332	22.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.05	22.16	22.19	
Channel				649334	656000	662666	22.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.09	22.15	22.15	
Channel				649000	656000	663000	22.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.14	22.16	22.19	
Channel				648668	656000	663332	22.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.07	22.09	22.18	
Channel				648334	656000	663666	22.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.13	22.14	22.20	
Channel				648000	656000	664000	22.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.12	22.10	22.18	
Channel				647668	656000	664332	22.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.11	22.11	22.19	
Channel				647334	656000	664666	22.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.13	22.15	22.17	
Channel				647168	656000	664832	22.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.14	22.11	22.18	
Channel				647000	656000	665000	22.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.07	22.16	22.14	



◁FR1 n77 MIMO2 Ant State 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				650000	656000	662000	15.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	14.51	14.48	14.54	
100	PI/2 BPSK	1	137	14.31	14.48	14.49	15.5
100	PI/2 BPSK	1	271	14.35	14.39	14.40	
100	PI/2 BPSK	135	0	14.39	14.41	14.42	
100	PI/2 BPSK	135	69	14.29	14.42	14.41	15.5
100	PI/2 BPSK	135	138	14.34	14.33	14.33	15.5
100	PI/2 BPSK	270	0	14.29	14.42	14.43	
100	QPSK	1	1	14.27	14.37	14.34	
100	QPSK	1	137	14.38	14.36	14.32	15.5
100	QPSK	1	271	14.40	14.52	14.46	
100	QPSK	135	0	14.27	14.34	14.37	
100	QPSK	135	69	14.35	14.38	14.38	15.5
100	QPSK	135	138	14.37	14.40	14.33	15.5
100	QPSK	270	0	14.39	14.38	14.43	
100	16QAM	1	1	14.34	14.31	14.34	
100	64QAM	1	1	14.28	14.41	14.46	15.5
100	256QAM	1	1	14.20	14.27	14.37	15.5
Channel				649668	656000	662332	15.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	14.44	14.46	14.48	
Channel				649334	656000	662666	15.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	14.47	14.38	14.51	
Channel				649000	656000	663000	15.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	14.41	14.37	14.42	
Channel				648668	656000	663332	15.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	14.42	14.35	14.45	
Channel				648334	656000	663666	15.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	14.38	14.34	14.34	
Channel				648000	656000	664000	15.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	14.38	14.28	14.36	
Channel				647668	656000	664332	15.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	14.30	14.32	14.33	
Channel				647334	656000	664666	15.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.27	14.29	14.30	
Channel				647168	656000	664832	15.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	14.27	14.27	14.23	
Channel				647000	656000	665000	15.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.20	14.27	14.28	



<FR1 n77 MIMO1 Ant State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	15.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	14.09	14.17	14.24	
100	PI/2 BPSK	1	137	14.03	14.14	14.16	15.0
100	PI/2 BPSK	1	271	13.94	14.05	14.15	
100	PI/2 BPSK	135	0	14.01	14.13	14.19	
100	PI/2 BPSK	135	69	13.97	14.10	14.18	15.0
100	PI/2 BPSK	135	138	13.97	14.06	14.10	15.0
100	PI/2 BPSK	270	0	13.99	14.08	14.17	
100	QPSK	1	1	13.84	14.01	14.07	
100	QPSK	1	137	13.94	14.04	14.07	15.0
100	QPSK	1	271	13.99	14.09	14.10	
100	QPSK	135	0	13.92	14.08	14.10	
100	QPSK	135	69	13.92	14.08	14.08	15.0
100	QPSK	135	138	13.86	14.01	14.10	
100	QPSK	270	0	13.95	14.04	14.06	
100	16QAM	1	1	13.87	14.04	14.10	15.0
100	64QAM	1	1	13.95	14.10	14.16	15.0
100	256QAM	1	1	13.93	14.05	14.09	15.0
Channel				649668	656000	662332	15.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	14.01	14.16	14.21	
Channel				649334	656000	662666	15.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	13.99	14.13	14.14	
Channel				649000	656000	663000	15.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	13.99	14.07	14.10	
Channel				648668	656000	663332	15.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	13.96	14.03	14.09	
Channel				648334	656000	663666	15.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	13.88	13.97	14.05	
Channel				648000	656000	664000	15.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	13.83	13.96	14.05	
Channel				647668	656000	664332	15.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	13.76	13.92	14.04	
Channel				647334	656000	664666	15.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	13.99	14.11	14.18	
Channel				647168	656000	664832	15.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	13.91	14.04	14.13	
Channel				647000	656000	665000	15.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	13.81	14.03	14.08	



<FR1 n77 Aux Ant State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.78	19.86	19.80	
100	PI/2 BPSK	1	137	19.73	19.76	19.75	20.5
100	PI/2 BPSK	1	271	19.73	19.79	19.75	
100	PI/2 BPSK	135	0	19.60	19.68	19.60	
100	PI/2 BPSK	135	69	19.58	19.62	19.54	20.5
100	PI/2 BPSK	135	138	19.58	19.61	19.55	20.5
100	PI/2 BPSK	270	0	19.67	19.71	19.61	
100	QPSK	1	1	19.64	19.64	19.60	
100	QPSK	1	137	19.67	19.70	19.70	20.5
100	QPSK	1	271	19.82	19.85	19.85	
100	QPSK	135	0	19.54	19.61	19.56	
100	QPSK	135	69	19.65	19.72	19.69	20.5
100	QPSK	135	138	19.61	19.68	19.61	
100	QPSK	270	0	19.60	19.67	19.63	
100	16QAM	1	1	19.83	19.84	19.84	20.5
100	64QAM	1	1	19.75	19.85	19.81	20.5
100	256QAM	1	1	19.66	19.67	19.65	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.70	19.76	19.80	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.74	19.84	19.79	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.74	19.78	19.79	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.74	19.76	19.75	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.68	19.84	19.71	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.68	19.84	19.79	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.71	19.81	19.79	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.78	19.85	19.70	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.69	19.76	19.71	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.75	19.85	19.78	



<FR1 n77 Main Ant. State 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					633332		18.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.25		18.0
100	PI/2 BPSK	1	137		17.13		
100	PI/2 BPSK	1	271		17.18		18.0
100	PI/2 BPSK	135	0		17.13		
100	PI/2 BPSK	135	69		17.08		18.0
100	PI/2 BPSK	135	138		17.07		
100	PI/2 BPSK	270	0		17.14		18.0
100	QPSK	1	1		17.09		
100	QPSK	1	137		17.10		18.0
100	QPSK	1	271		17.24		
100	QPSK	135	0		17.08		18.0
100	QPSK	135	69		17.06		
100	QPSK	135	138		17.05		18.0
100	QPSK	270	0		17.01		
100	16QAM	1	1		17.09		18.0
100	64QAM	1	1		17.14		
100	256QAM	1	1		17.10		18.0
Channel				633000	633332	633666	18.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.15	17.17	17.23	18.0
Channel				632668	633332	634000	18.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.20	17.23	17.23	18.0
Channel				632334	633332	634332	18.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.19	17.24	17.20	18.0
Channel				632000	633332	634666	18.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.22	17.23	17.18	18.0
Channel				631668	633332	635000	18.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.17	17.24	17.24	18.0
Channel				631334	633332	635332	18.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.16	17.18	17.21	18.0
Channel				631000	633332	635666	18.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.18	17.21	17.23	18.0
Channel				630668	633332	636000	18.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.17	17.19	17.18	18.0
Channel				630500	633332	636166	18.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.19	17.19	17.18	18.0
Channel				630334	633332	636332	18.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.19	17.16	17.25	18.0



<div style="text-align: center;"><FR1 n77 MIMO2 Ant State 2></div>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		17.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.70		17.5
100	PI/2 BPSK	1	137		16.56		
100	PI/2 BPSK	1	271		16.58		17.5
100	PI/2 BPSK	135	0		16.66		
100	PI/2 BPSK	135	69		16.57		17.5
100	PI/2 BPSK	135	138		16.49		
100	PI/2 BPSK	270	0		16.55		17.5
100	QPSK	1	1		16.61		
100	QPSK	1	137		16.62		17.5
100	QPSK	1	271		16.57		
100	QPSK	135	0		16.65		17.5
100	QPSK	135	69		16.61		
100	QPSK	135	138		16.48		17.5
100	QPSK	270	0		16.52		
100	16QAM	1	1		16.51		17.5
100	64QAM	1	1		16.46		
100	256QAM	1	1		16.49		17.5
Channel				633000	633332	633666	17.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.67	16.63	16.63	17.5
Channel				632668	633332	634000	17.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.66	16.64	16.62	17.5
Channel				632334	633332	634332	17.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.61	16.62	16.67	17.5
Channel				632000	633332	634666	17.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.68	16.60	16.65	17.5
Channel				631668	633332	635000	17.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.60	16.66	16.69	17.5
Channel				631334	633332	635332	17.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.62	16.69	16.64	17.5
Channel				631000	633332	635666	17.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.61	16.65	16.64	17.5
Channel				630668	633332	636000	17.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.63	16.67	16.60	17.5
Channel				630500	633332	636166	17.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.67	16.63	16.61	17.5
Channel				630334	633332	636332	17.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.64	16.61	16.62	17.5



<FR1 n77 Main Ant. State 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					633332		22.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.15		22.5
100	PI/2 BPSK	1	137		22.11		
100	PI/2 BPSK	1	271		22.13		
100	PI/2 BPSK	135	0		22.10		22.5
100	PI/2 BPSK	135	69		22.02		22.5
100	PI/2 BPSK	135	138		22.01		22.5
100	PI/2 BPSK	270	0		22.03		
100	QPSK	1	1		22.12		22.5
100	QPSK	1	137		22.00		
100	QPSK	1	271		22.13		
100	QPSK	135	0		22.02		22.5
100	QPSK	135	69		22.10		
100	QPSK	135	138		22.05		
100	QPSK	270	0		22.02		22.5
100	16QAM	1	1		22.14		22.5
100	64QAM	1	1		21.60		22.0
100	256QAM	1	1		20.61		21.0
Channel				633000	633332	633666	22.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.09	22.07	22.05	22.5
Channel				632668	633332	634000	22.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.06	22.09	22.07	22.5
Channel				632334	633332	634332	22.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.10	22.07	22.14	22.5
Channel				632000	633332	634666	22.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.13	22.12	22.05	22.5
Channel				631668	633332	635000	22.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.09	22.09	22.07	22.5
Channel				631334	633332	635332	22.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.92	22.14	22.07	22.5
Channel				631000	633332	635666	22.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.98	22.09	22.04	22.5
Channel				630668	633332	636000	22.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.99	22.05	22.00	22.5
Channel				630500	633332	636166	22.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.90	22.06	22.05	22.5
Channel				630334	633332	636332	22.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.94	22.12	22.03	22.5



<div style="text-align: center;"><FR1 n77 MIMO2 Ant State 3></div>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		15.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.59		15.5
100	PI/2 BPSK	1	137		14.46		
100	PI/2 BPSK	1	271		14.45		15.5
100	PI/2 BPSK	135	0		14.51		
100	PI/2 BPSK	135	69		14.50		15.5
100	PI/2 BPSK	135	138		14.37		
100	PI/2 BPSK	270	0		14.39		15.5
100	QPSK	1	1		14.49		
100	QPSK	1	137		14.43		15.5
100	QPSK	1	271		14.41		
100	QPSK	135	0		14.47		15.5
100	QPSK	135	69		14.35		
100	QPSK	135	138		14.42		15.5
100	QPSK	270	0		14.39		
100	16QAM	1	1		14.50		15.5
100	64QAM	1	1		14.45		
100	256QAM	1	1		14.37		15.5
Channel				633000	633332	633666	15.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.37	14.36	14.40	15.5
Channel				632668	633332	634000	15.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.33	14.27	14.40	15.5
Channel				632334	633332	634332	15.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.30	14.26	14.31	15.5
Channel				632000	633332	634666	15.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.28	14.21	14.21	15.5
Channel				631668	633332	635000	15.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.23	14.13	14.21	15.5
Channel				631334	633332	635332	15.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.23	14.12	14.20	15.5
Channel				631000	633332	635666	15.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.19	14.06	14.19	15.5
Channel				630668	633332	636000	15.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.36	14.26	14.31	15.5
Channel				630500	633332	636166	15.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.35	14.18	14.29	15.5
Channel				630334	633332	636332	15.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.27	14.11	14.28	15.5



<FR1 n77 MIMO1 Ant State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		15.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.63		15.0
100	PI/2 BPSK	1	137		14.36		
100	PI/2 BPSK	1	271		14.43		15.0
100	PI/2 BPSK	135	0		14.45		
100	PI/2 BPSK	135	69		14.34		15.0
100	PI/2 BPSK	135	138		14.38		
100	PI/2 BPSK	270	0		14.42		15.0
100	QPSK	1	1		14.43		
100	QPSK	1	137		14.30		15.0
100	QPSK	1	271		14.52		
100	QPSK	135	0		14.44		15.0
100	QPSK	135	69		14.30		
100	QPSK	135	138		14.35		15.0
100	QPSK	270	0		14.36		
100	16QAM	1	1		14.37		15.0
100	64QAM	1	1		14.24		
100	256QAM	1	1		14.30		15.0
Channel				633000	633332	633666	15.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.27	14.54	14.36	15.0
Channel				632668	633332	634000	15.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.23	14.53	14.32	15.0
Channel				632334	633332	634332	15.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.20	14.52	14.32	15.0
Channel				632000	633332	634666	15.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.13	14.52	14.24	15.0
Channel				631668	633332	635000	15.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.08	14.43	14.18	15.0
Channel				631334	633332	635332	15.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.01	14.41	14.09	15.0
Channel				631000	633332	635666	15.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.91	14.33	14.02	15.0
Channel				630668	633332	636000	15.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.23	14.51	14.24	15.0
Channel				630500	633332	636166	15.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.14	14.46	14.15	15.0
Channel				630334	633332	636332	15.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.07	14.44	14.09	15.0



◀FR1 n77 Aux Ant State 2/3▶							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.18		20.5
100	PI/2 BPSK	1	137		19.88		
100	PI/2 BPSK	1	271		19.81		
100	PI/2 BPSK	135	0		19.97		20.5
100	PI/2 BPSK	135	69		19.86		20.5
100	PI/2 BPSK	135	138		19.77		20.5
100	PI/2 BPSK	270	0		19.85		
100	QPSK	1	1		20.10		20.5
100	QPSK	1	137		19.85		
100	QPSK	1	271		19.81		
100	QPSK	135	0		19.97		20.5
100	QPSK	135	69		19.86		
100	QPSK	135	138		19.83		
100	QPSK	270	0		19.84		20.5
100	16QAM	1	1		20.02		20.5
100	64QAM	1	1		20.13		20.5
100	256QAM	1	1		20.09		20.5
Channel				633000	633332	633666	20.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.12	20.17	20.12	20.5
Channel				632668	633332	634000	20.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.09	20.15	20.11	20.5
Channel				632334	633332	634332	20.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.16	20.14	20.10	20.5
Channel				632000	633332	634666	20.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.10	20.15	20.13	20.5
Channel				631668	633332	635000	20.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.12	20.08	20.17	20.5
Channel				631334	633332	635332	20.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.10	20.09	20.08	20.5
Channel				631000	633332	635666	20.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.13	20.14	20.10	20.5
Channel				630668	633332	636000	20.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.11	20.16	20.08	20.5
Channel				630500	633332	636166	20.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.16	20.13	20.16	20.5
Channel				630334	633332	636332	20.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.13	20.12	20.11	20.5



<FR1 n78 Main Ant. State 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					650000		18.0
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		17.70		18.0
100	PI/2 BPSK	1	137		17.64		
100	PI/2 BPSK	1	271		17.56		18.0
100	PI/2 BPSK	135	0		17.67		
100	PI/2 BPSK	135	69		17.62		18.0
100	PI/2 BPSK	135	138		17.62		
100	PI/2 BPSK	270	0		17.70		18.0
100	QPSK	1	1		17.63		
100	QPSK	1	137		17.70		18.0
100	QPSK	1	271		17.54		
100	QPSK	135	0		17.61		18.0
100	QPSK	135	69		17.68		
100	QPSK	135	138		17.76		18.0
100	QPSK	270	0		17.65		
100	16QAM	1	1		17.50		18.0
100	64QAM	1	1		17.56		
100	256QAM	1	1		17.57		18.0
Channel				649668	650000	650332	18.0
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	17.62	17.66	17.59	18.0
Channel				649334	650000	650666	18.0
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	17.64	17.64	17.58	18.0
Channel				649000	650000	651000	18.0
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	17.61	17.60	17.62	18.0
Channel				648668	650000	651332	18.0
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	17.63	17.64	17.65	18.0
Channel				648334	650000	651666	18.0
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	17.57	17.58	17.62	18.0
Channel				648000	650000	652000	18.0
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	17.64	17.64	17.64	18.0
Channel				647668	650000	652332	18.0
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	17.65	17.60	17.62	18.0
Channel				647334	650000	652666	18.0
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	17.63	17.64	17.66	18.0
Channel				647168	650000	652832	18.0
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	17.57	17.67	17.59	18.0
Channel				647000	650000	653000	18.0
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	17.61	17.68	17.67	18.0



<div style="text-align: center;"><FR1 n78 MIMO2 Ant State 2></div>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		17.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		16.65		17.5
100	PI/2 BPSK	1	137		16.37		
100	PI/2 BPSK	1	271		16.51		17.5
100	PI/2 BPSK	135	0		16.48		
100	PI/2 BPSK	135	69		16.40		17.5
100	PI/2 BPSK	135	138		16.44		
100	PI/2 BPSK	270	0		16.37		17.5
100	QPSK	1	1		16.38		
100	QPSK	1	137		16.32		17.5
100	QPSK	1	271		16.31		
100	QPSK	135	0		16.45		17.5
100	QPSK	135	69		16.39		
100	QPSK	135	138		16.46		17.5
100	QPSK	270	0		16.39		
100	16QAM	1	1		16.28		17.0
100	64QAM	1	1		16.36		17.0
100	256QAM	1	1		16.35		17.0
Channel				649668	650000	650332	17.5
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	16.53	16.49	16.53	17.5
Channel				649334	650000	650666	17.5
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	16.49	16.56	16.51	17.5
Channel				649000	650000	651000	17.5
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	16.49	16.50	16.49	17.5
Channel				648668	650000	651332	17.5
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	16.50	16.55	16.54	17.5
Channel				648334	650000	651666	17.5
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	16.57	16.48	16.53	17.5
Channel				648000	650000	652000	17.5
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	16.54	16.53	16.52	17.5
Channel				647668	650000	652332	17.5
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	16.52	16.48	16.55	17.5
Channel				647334	650000	652666	17.5
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	16.54	16.53	16.54	17.5
Channel				647168	650000	652832	17.5
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	16.49	16.57	16.58	17.5
Channel				647000	650000	653000	17.5
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	16.57	16.48	16.50	17.5



<FR1 n78 Main Ant. State 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					650000		22.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.05		22.5
100	PI/2 BPSK	1	137		20.97		
100	PI/2 BPSK	1	271		20.95		
100	PI/2 BPSK	135	0		20.91		22.5
100	PI/2 BPSK	135	69		20.97		22.5
100	PI/2 BPSK	135	138		20.92		22.5
100	PI/2 BPSK	270	0		20.88		
100	QPSK	1	1		20.90		
100	QPSK	1	137		20.98		22.5
100	QPSK	1	271		20.99		
100	QPSK	135	0		20.84		
100	QPSK	135	69		21.00		22.5
100	QPSK	135	138		20.91		
100	QPSK	270	0		20.91		
100	16QAM	1	1		20.94		22.5
100	64QAM	1	1		20.97		22.5
100	256QAM	1	1		20.84		22.5
Channel				649668	650000	650332	22.5
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.91	21.03	20.94	22.5
Channel				649334	650000	650666	22.5
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.90	20.97	20.88	22.5
Channel				649000	650000	651000	22.5
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.85	20.88	20.79	22.5
Channel				648668	650000	651332	22.5
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.79	20.79	20.77	22.5
Channel				648334	650000	651666	22.5
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.71	20.75	20.68	22.5
Channel				648000	650000	652000	22.5
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.67	20.72	20.67	22.5
Channel				647668	650000	652332	22.5
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.60	20.65	20.62	22.5
Channel				647334	650000	652666	22.5
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.76	20.72	20.68	22.5
Channel				647168	650000	652832	22.5
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.78	20.73	20.75	22.5
Channel				647000	650000	653000	22.5
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.82	20.78	20.78	22.5



◁FR1 n78 MIMO2 Ant State 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					650000		15.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		14.52		15.5
100	PI/2 BPSK	1	137		14.48		
100	PI/2 BPSK	1	271		14.47		15.5
100	PI/2 BPSK	135	0		14.37		
100	PI/2 BPSK	135	69		14.42		15.5
100	PI/2 BPSK	135	138		14.41		
100	PI/2 BPSK	270	0		14.33		15.5
100	QPSK	1	1		14.51		
100	QPSK	1	137		14.44		15.5
100	QPSK	1	271		14.32		
100	QPSK	135	0		14.33		15.5
100	QPSK	135	69		14.40		
100	QPSK	135	138		14.22		15.5
100	QPSK	270	0		14.31		
100	16QAM	1	1		14.35		15.5
100	64QAM	1	1		14.43		
100	256QAM	1	1		14.48		15.5
Channel				649668	650000	650332	
Frequency (MHz)				3745.02	3750	3754.98	Tune-up limit (dBm)
90	PI/2 BPSK	1	1	14.39	14.48	14.39	15.5
Channel				649334	650000	650666	15.5
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	14.35	14.40	14.35	15.5
Channel				649000	650000	651000	15.5
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	14.31	14.37	14.32	15.5
Channel				648668	650000	651332	15.5
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	14.25	14.28	14.27	15.5
Channel				648334	650000	651666	15.5
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	14.16	14.23	14.18	15.5
Channel				648000	650000	652000	15.5
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	14.11	14.18	14.11	15.5
Channel				647668	650000	652332	15.5
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	14.09	14.11	14.07	15.5
Channel				647334	650000	652666	15.5
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	14.37	14.45	14.39	15.5
Channel				647168	650000	652832	15.5
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	14.32	14.37	14.37	15.5
Channel				647000	650000	653000	15.5
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	14.23	14.29	14.34	15.5



<FR1 n78 MIMO1 Ant State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		15.0
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		13.88		15.0
100	PI/2 BPSK	1	137		13.87		
100	PI/2 BPSK	1	271		13.85		
100	PI/2 BPSK	135	0		13.81		15.0
100	PI/2 BPSK	135	69		13.87		15.0
100	PI/2 BPSK	135	138		13.77		15.0
100	PI/2 BPSK	270	0		13.85		
100	QPSK	1	1		13.83		
100	QPSK	1	137		13.78		15.0
100	QPSK	1	271		13.78		
100	QPSK	135	0		13.71		
100	QPSK	135	69		13.83		15.0
100	QPSK	135	138		13.73		
100	QPSK	270	0		13.82		
100	16QAM	1	1		13.79		15.0
100	64QAM	1	1		13.72		15.0
100	256QAM	1	1		13.74		15.0
Channel				649668	650000	650332	15.0
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	13.80	13.86	13.79	15.0
Channel				649334	650000	650666	15.0
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	13.70	13.81	13.78	15.0
Channel				649000	650000	651000	15.0
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	13.65	13.76	13.74	15.0
Channel				648668	650000	651332	15.0
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	13.64	13.69	13.66	15.0
Channel				648334	650000	651666	15.0
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	13.60	13.59	13.60	15.0
Channel				648000	650000	652000	15.0
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	13.59	13.49	13.56	15.0
Channel				647668	650000	652332	15.0
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	13.52	13.47	13.46	15.0
Channel				647334	650000	652666	15.0
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	13.66	13.77	13.77	15.0
Channel				647168	650000	652832	15.0
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	13.59	13.67	13.75	15.0
Channel				647000	650000	653000	15.0
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	13.49	13.66	13.71	15.0



<u><FR1 n78 Aux Ant State 2/3></u>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		20.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		19.95		20.5
100	PI/2 BPSK	1	137		19.58		
100	PI/2 BPSK	1	271		19.46		
100	PI/2 BPSK	135	0		19.61		20.5
100	PI/2 BPSK	135	69		19.56		20.5
100	PI/2 BPSK	135	138		19.46		20.5
100	PI/2 BPSK	270	0		19.48		
100	QPSK	1	1		19.73		20.5
100	QPSK	1	137		19.49		
100	QPSK	1	271		19.49		
100	QPSK	135	0		19.60		20.5
100	QPSK	135	69		19.50		
100	QPSK	135	138		19.53		
100	QPSK	270	0		19.52		20.5
100	16QAM	1	1		19.71		20.5
100	64QAM	1	1		19.81		20.5
100	256QAM	1	1		19.70		20.5
Channel				649668	650000	650332	20.5
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.94	19.90	19.92	20.5
Channel				649334	650000	650666	20.5
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.92	19.94	19.88	20.5
Channel				649000	650000	651000	20.5
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.92	19.89	19.94	20.5
Channel				648668	650000	651332	20.5
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.85	19.93	19.90	20.5
Channel				648334	650000	651666	20.5
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.89	19.89	19.91	20.5
Channel				648000	650000	652000	20.5
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.92	19.94	19.87	20.5
Channel				647668	650000	652332	20.5
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.90	19.85	19.85	20.5
Channel				647334	650000	652666	20.5
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.93	19.91	19.92	20.5
Channel				647168	650000	652832	20.5
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.90	19.92	19.88	20.5
Channel				647000	650000	653000	20.5
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.85	19.86	19.93	20.5



<FR1 n78 Main Ant. State 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					633332		18.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.16		18.0
100	PI/2 BPSK	1	137		17.08		
100	PI/2 BPSK	1	271		17.12		
100	PI/2 BPSK	135	0		17.13		18.0
100	PI/2 BPSK	135	69		16.98		18.0
100	PI/2 BPSK	135	138		16.98		18.0
100	PI/2 BPSK	270	0		17.12		
100	QPSK	1	1		17.06		18.0
100	QPSK	1	137		17.04		
100	QPSK	1	271		17.13		
100	QPSK	135	0		17.08		18.0
100	QPSK	135	69		16.97		
100	QPSK	135	138		17.04		
100	QPSK	270	0		17.00		18.0
100	16QAM	1	1		17.07		18.0
100	64QAM	1	1		17.10		18.0
100	256QAM	1	1		17.07		18.0
Channel				633000	633332	633666	18.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.14	17.11	17.19	18.0
Channel				632668	633332	634000	18.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.09	17.13	17.15	18.0
Channel				632334	633332	634332	18.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.05	17.10	17.22	18.0
Channel				632000	633332	634666	18.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.08	17.15	17.18	18.0
Channel				631668	633332	635000	18.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.10	17.12	17.19	18.0
Channel				631334	633332	635332	18.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.15	17.09	17.18	18.0
Channel				631000	633332	635666	18.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.08	17.08	17.21	18.0
Channel				630668	633332	636000	18.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.15	17.11	17.21	18.0
Channel				630500	633332	636166	18.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.10	17.07	17.15	18.0
Channel				630334	633332	636332	18.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.15	17.14	17.14	18.0



<div style="text-align: center;"><FR1 n78 MIMO2 Ant State 2></div>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		17.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.68		17.5
100	PI/2 BPSK	1	137		16.56		
100	PI/2 BPSK	1	271		16.52		17.5
100	PI/2 BPSK	135	0		16.62		
100	PI/2 BPSK	135	69		16.55		17.5
100	PI/2 BPSK	135	138		16.42		
100	PI/2 BPSK	270	0		16.50		17.5
100	QPSK	1	1		16.59		
100	QPSK	1	137		16.56		17.5
100	QPSK	1	271		16.51		
100	QPSK	135	0		16.57		17.5
100	QPSK	135	69		16.60		
100	QPSK	135	138		16.44		17.0
100	QPSK	270	0		16.43		
100	16QAM	1	1		16.45		17.0
100	64QAM	1	1		16.37		
100	256QAM	1	1		16.43		17.0
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit (dBm)
90	PI/2 BPSK	1	1	16.65	16.63	16.61	17.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.62	16.62	16.62	17.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.62	16.59	16.63	17.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.63	16.66	16.66	17.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.67	16.63	16.59	17.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.64	16.63	16.63	17.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.59	16.60	16.66	17.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.63	16.63	16.65	17.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.63	16.61	16.64	17.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.64	16.59	16.59	17.5



<FR1 n78 Main Ant. State 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					633332		22.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.49		22.5
100	PI/2 BPSK	1	137		21.37		
100	PI/2 BPSK	1	271		21.34		22.5
100	PI/2 BPSK	135	0		21.25		
100	PI/2 BPSK	135	69		21.34		22.5
100	PI/2 BPSK	135	138		21.36		
100	PI/2 BPSK	270	0		21.29		22.5
100	QPSK	1	1		21.27		
100	QPSK	1	137		21.33		22.5
100	QPSK	1	271		21.41		
100	QPSK	135	0		21.33		22.5
100	QPSK	135	69		21.44		
100	QPSK	135	138		21.22		22.5
100	QPSK	270	0		21.24		
100	16QAM	1	1		21.26		22.5
100	64QAM	1	1		21.35		
100	256QAM	1	1		20.38		21.0
Channel				633000	633332	633666	22.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.37	21.43	21.28	22.5
Channel				632668	633332	634000	22.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.36	21.37	21.18	22.5
Channel				632334	633332	634332	22.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.27	21.33	21.17	22.5
Channel				632000	633332	634666	22.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.17	21.25	21.15	22.5
Channel				631668	633332	635000	22.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.17	21.23	21.12	22.5
Channel				631334	633332	635332	22.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.10	21.20	21.02	22.5
Channel				631000	633332	635666	22.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.05	21.19	20.95	22.5
Channel				630668	633332	636000	22.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.17	21.14	20.95	22.5
Channel				630500	633332	636166	22.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.17	21.22	21.03	22.5
Channel				630334	633332	636332	22.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.19	21.26	21.12	22.5



<div style="text-align: center;"><FR1 n78 MIMO2 Ant State 3></div>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		15.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.17		15.5
100	PI/2 BPSK	1	137		14.02		
100	PI/2 BPSK	1	271		14.00		15.5
100	PI/2 BPSK	135	0		14.06		
100	PI/2 BPSK	135	69		14.07		15.5
100	PI/2 BPSK	135	138		13.97		
100	PI/2 BPSK	270	0		14.03		15.5
100	QPSK	1	1		14.09		
100	QPSK	1	137		13.99		15.5
100	QPSK	1	271		14.01		
100	QPSK	135	0		14.07		15.5
100	QPSK	135	69		13.98		
100	QPSK	135	138		13.92		15.5
100	QPSK	270	0		14.02		
100	16QAM	1	1		14.01		15.5
100	64QAM	1	1		13.97		
100	256QAM	1	1		13.99		15.5
Channel				633000	633332	633666	15.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	13.98	13.99	13.95	15.5
Channel				632668	633332	634000	15.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.92	13.95	13.86	15.5
Channel				632334	633332	634332	15.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.87	13.85	13.82	15.5
Channel				632000	633332	634666	15.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.87	13.82	13.77	15.5
Channel				631668	633332	635000	15.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.86	13.77	13.71	15.5
Channel				631334	633332	635332	15.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.81	13.76	13.61	15.5
Channel				631000	633332	635666	15.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.77	13.69	13.52	15.5
Channel				630668	633332	636000	15.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.95	13.94	13.88	15.5
Channel				630500	633332	636166	15.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.95	13.85	13.80	15.5
Channel				630334	633332	636332	15.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.85	13.78	13.72	15.5



<FR1 n78 MIMO1 Ant State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		15.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		13.96		15.0
100	PI/2 BPSK	1	137		13.78		
100	PI/2 BPSK	1	271		13.80		
100	PI/2 BPSK	135	0		13.80		15.0
100	PI/2 BPSK	135	69		13.77		15.0
100	PI/2 BPSK	135	138		13.77		15.0
100	PI/2 BPSK	270	0		13.69		
100	QPSK	1	1		13.70		15.0
100	QPSK	1	137		13.73		
100	QPSK	1	271		13.83		
100	QPSK	135	0		13.78		15.0
100	QPSK	135	69		13.81		
100	QPSK	135	138		13.73		
100	QPSK	270	0		13.83		15.0
100	16QAM	1	1		13.85		15.0
100	64QAM	1	1		13.75		15.0
100	256QAM	1	1		13.59		15.0
Channel				633000	633332	633666	15.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	13.69	13.86	13.80	15.0
Channel				632668	633332	634000	15.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.61	13.84	13.75	15.0
Channel				632334	633332	634332	15.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.54	13.78	13.67	15.0
Channel				632000	633332	634666	15.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.50	13.69	13.67	15.0
Channel				631668	633332	635000	15.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.43	13.65	13.61	15.0
Channel				631334	633332	635332	15.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.39	13.58	13.60	15.0
Channel				631000	633332	635666	15.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.30	13.56	13.55	15.0
Channel				630668	633332	636000	15.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.51	13.78	13.65	15.0
Channel				630500	633332	636166	15.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.42	13.74	13.61	15.0
Channel				630334	633332	636332	15.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.42	13.66	13.61	15.0



<FR1 n78 Aux Ant State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.10		20.5
100	PI/2 BPSK	1	137		19.83		
100	PI/2 BPSK	1	271		19.81		
100	PI/2 BPSK	135	0		19.88		20.5
100	PI/2 BPSK	135	69		19.86		20.5
100	PI/2 BPSK	135	138		19.73		20.5
100	PI/2 BPSK	270	0		19.76		
100	QPSK	1	1		20.06		20.5
100	QPSK	1	137		19.81		
100	QPSK	1	271		19.71		
100	QPSK	135	0		19.88		20.5
100	QPSK	135	69		19.77		
100	QPSK	135	138		19.81		
100	QPSK	270	0		19.77		20.5
100	16QAM	1	1		19.98		20.5
100	64QAM	1	1		20.09		20.5
100	256QAM	1	1		20.09		20.5
Channel				633000	633332	633666	20.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.07	20.05	20.07	20.5
Channel				632668	633332	634000	20.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.01	20.03	20.05	20.5
Channel				632334	633332	634332	20.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.08	20.01	20.05	20.5
Channel				632000	633332	634666	20.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.05	20.03	20.04	20.5
Channel				631668	633332	635000	20.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.06	20.01	20.06	20.5
Channel				631334	633332	635332	20.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.04	20.02	20.07	20.5
Channel				631000	633332	635666	20.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.88	19.94	20.09	20.5
Channel				630668	633332	636000	20.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.99	20.07	20.08	20.5
Channel				630500	633332	636166	20.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.09	19.89	19.97	20.5
Channel				630334	633332	636332	20.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.92	19.98	20.03	20.5



<FR1 n77 HPUE Main Ant. State 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				650000	656000	662000	18.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.70	17.78	17.72	
100	PI/2 BPSK	1	137	17.60	17.67	17.62	18.0
100	PI/2 BPSK	1	271	17.58	17.66	17.63	
100	PI/2 BPSK	135	0	17.68	17.75	17.65	
100	PI/2 BPSK	135	69	17.63	17.72	17.69	18.0
100	PI/2 BPSK	135	138	17.69	17.70	17.65	18.0
100	PI/2 BPSK	270	0	17.74	17.74	17.72	
100	QPSK	1	1	17.61	17.68	17.63	
100	QPSK	1	137	17.65	17.75	17.69	18.0
100	QPSK	1	271	17.57	17.62	17.55	
100	QPSK	135	0	17.69	17.69	17.69	
100	QPSK	135	69	17.67	17.77	17.73	18.0
100	QPSK	135	138	17.76	17.76	17.74	
100	QPSK	270	0	17.66	17.73	17.65	
100	16QAM	1	1	17.46	17.56	17.46	18.0
100	64QAM	1	1	17.53	17.62	17.53	18.0
100	256QAM	1	1	17.57	17.65	17.65	18.0
Channel				649668	656000	662332	18.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	17.67	17.68	17.67	
Channel				649334	656000	662666	18.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.62	17.74	17.71	
Channel				649000	656000	663000	18.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	17.70	17.71	17.63	
Channel				648668	656000	663332	18.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.62	17.70	17.66	
Channel				648334	656000	663666	18.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	17.64	17.70	17.70	
Channel				648000	656000	664000	18.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.65	17.72	17.63	
Channel				647668	656000	664332	18.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	17.61	17.70	17.62	
Channel				647334	656000	664666	18.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.69	17.77	17.72	
Channel				647168	656000	664832	18.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	17.60	17.76	17.64	
Channel				647000	656000	665000	18.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	17.67	17.73	17.62	



<FR1 n77 HPUE MIMO2 Ant State 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				650000	656000	662000	17.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	16.55	16.62	16.60	
100	PI/2 BPSK	1	137	16.41	16.46	16.41	17.5
100	PI/2 BPSK	1	271	16.54	16.60	16.56	
100	PI/2 BPSK	135	0	16.51	16.55	16.51	
100	PI/2 BPSK	135	69	16.53	16.53	16.53	17.5
100	PI/2 BPSK	135	138	16.46	16.50	16.46	
100	PI/2 BPSK	270	0	16.45	16.52	16.44	
100	QPSK	1	1	16.45	16.54	16.47	17.5
100	QPSK	1	137	16.46	16.47	16.41	
100	QPSK	1	271	16.35	16.39	16.31	
100	QPSK	135	0	16.48	16.52	16.42	17.5
100	QPSK	135	69	16.46	16.53	16.53	
100	QPSK	135	138	16.47	16.54	16.52	
100	QPSK	270	0	16.38	16.46	16.36	17.5
100	16QAM	1	1	16.33	16.38	16.33	
100	64QAM	1	1	16.43	16.49	16.48	
100	256QAM	1	1	16.42	16.42	16.35	17.5
Channel				649668	656000	662332	
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	16.51	16.53	16.60	17.5
Channel				649334	656000	662666	
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	16.47	16.60	16.60	17.5
Channel				649000	656000	663000	
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	16.52	16.51	16.56	17.5
Channel				648668	656000	663332	
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	16.52	16.59	16.55	17.5
Channel				648334	656000	663666	
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	16.45	16.54	16.51	17.5
Channel				648000	656000	664000	
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	16.46	16.55	16.55	17.5
Channel				647668	656000	664332	
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	16.53	16.60	16.51	17.5
Channel				647334	656000	664666	
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	16.50	16.52	16.58	17.5
Channel				647168	656000	664832	
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	16.54	16.61	16.54	17.5
Channel				647000	656000	665000	
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	16.51	16.57	16.58	17.5
Channel				647000	656000	665000	
Frequency (MHz)				3705	3840	3975	



<FR1 n77 HPUE Main Ant. State 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				650000	656000	662000	22.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.17	22.24	22.26	22.5
100	PI/2 BPSK	1	137	22.09	22.15	22.13	
100	PI/2 BPSK	1	271	22.06	22.14	22.15	
100	PI/2 BPSK	135	0	21.91	22.05	22.07	22.5
100	PI/2 BPSK	135	69	21.84	21.99	22.02	22.5
100	PI/2 BPSK	135	138	21.82	21.93	21.95	22.5
100	PI/2 BPSK	270	0	21.92	21.99	21.96	
100	QPSK	1	1	21.87	21.98	21.95	22.5
100	QPSK	1	137	22.02	22.10	22.12	
100	QPSK	1	271	22.11	22.16	22.12	
100	QPSK	135	0	21.81	21.91	21.91	22.5
100	QPSK	135	69	21.99	22.07	22.07	
100	QPSK	135	138	21.91	22.02	21.97	
100	QPSK	270	0	21.80	21.95	21.95	22.5
100	16QAM	1	1	22.07	22.12	22.11	22.5
100	64QAM	1	1	22.02	22.09	22.04	22.5
100	256QAM	1	1	20.83	20.91	20.94	21.5
Channel				649668	656000	662332	22.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.05	22.16	22.19	22.5
Channel				649334	656000	662666	22.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.09	22.15	22.15	22.5
Channel				649000	656000	663000	22.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.14	22.16	22.19	22.5
Channel				648668	656000	663332	22.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.07	22.09	22.18	22.5
Channel				648334	656000	663666	22.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.13	22.14	22.20	22.5
Channel				648000	656000	664000	22.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.12	22.10	22.18	22.5
Channel				647668	656000	664332	22.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.11	22.11	22.19	22.5
Channel				647334	656000	664666	22.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.13	22.15	22.17	22.5
Channel				647168	656000	664832	22.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.14	22.11	22.18	22.5
Channel				647000	656000	665000	22.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.07	22.16	22.14	22.5



◀FR1 n77 HPUE MIMO2 Ant State 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				650000	656000	662000	15.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	14.51	14.48	14.54	
100	PI/2 BPSK	1	137	14.31	14.48	14.49	15.5
100	PI/2 BPSK	1	271	14.35	14.39	14.40	
100	PI/2 BPSK	135	0	14.39	14.41	14.42	
100	PI/2 BPSK	135	69	14.29	14.42	14.41	15.5
100	PI/2 BPSK	135	138	14.34	14.33	14.33	15.5
100	PI/2 BPSK	270	0	14.29	14.40	14.43	
100	QPSK	1	1	14.27	14.37	14.34	
100	QPSK	1	137	14.38	14.36	14.32	15.5
100	QPSK	1	271	14.40	14.52	14.46	
100	QPSK	135	0	14.27	14.34	14.37	
100	QPSK	135	69	14.35	14.38	14.38	15.5
100	QPSK	135	138	14.37	14.40	14.33	15.5
100	QPSK	270	0	14.39	14.38	14.43	
100	16QAM	1	1	14.34	14.31	14.34	
100	64QAM	1	1	14.28	14.41	14.46	15.5
100	256QAM	1	1	14.20	14.27	14.37	15.5
Channel				649668	656000	662332	15.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	14.44	14.46	14.48	
Channel				649334	656000	662666	15.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	14.47	14.38	14.51	
Channel				649000	656000	663000	15.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	14.41	14.37	14.42	
Channel				648668	656000	663332	15.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	14.42	14.35	14.45	
Channel				648334	656000	663666	15.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	14.38	14.34	14.34	
Channel				648000	656000	664000	15.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	14.38	14.28	14.36	
Channel				647668	656000	664332	15.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	14.30	14.32	14.33	
Channel				647334	656000	664666	15.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.27	14.29	14.30	
Channel				647168	656000	664832	15.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	14.27	14.27	14.23	
Channel				647000	656000	665000	15.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.20	14.27	14.28	



<FR1 n77 HPUE MIMO1 Ant_State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	15.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	14.09	14.17	14.24	
100	PI/2 BPSK	1	137	14.03	14.14	14.16	15.0
100	PI/2 BPSK	1	271	13.94	14.05	14.15	
100	PI/2 BPSK	135	0	14.01	14.13	14.19	
100	PI/2 BPSK	135	69	13.97	14.10	14.18	15.0
100	PI/2 BPSK	135	138	13.97	14.06	14.10	15.0
100	PI/2 BPSK	270	0	13.99	14.08	14.17	
100	QPSK	1	1	13.84	14.01	14.07	
100	QPSK	1	137	13.94	14.04	14.07	15.0
100	QPSK	1	271	13.99	14.09	14.10	
100	QPSK	135	0	13.92	14.08	14.10	
100	QPSK	135	69	13.92	14.08	14.08	15.0
100	QPSK	135	138	13.86	14.01	14.10	
100	QPSK	270	0	13.95	14.04	14.06	
100	16QAM	1	1	13.87	14.04	14.10	15.0
100	64QAM	1	1	13.95	14.10	14.16	15.0
100	256QAM	1	1	13.93	14.05	14.09	15.0
Channel				649668	656000	662332	15.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	14.01	14.16	14.21	
Channel				649334	656000	662666	15.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	13.99	14.13	14.14	
Channel				649000	656000	663000	15.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	13.99	14.07	14.10	
Channel				648668	656000	663332	15.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	13.96	14.03	14.09	
Channel				648334	656000	663666	15.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	13.88	13.97	14.05	
Channel				648000	656000	664000	15.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	13.83	13.96	14.05	
Channel				647668	656000	664332	15.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	13.76	13.92	14.04	
Channel				647334	656000	664666	15.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	13.99	14.11	14.18	
Channel				647168	656000	664832	15.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	13.91	14.04	14.13	
Channel				647000	656000	665000	15.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	13.81	14.03	14.08	



<FR1 n77 HPUE Aux Ant. State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.78	19.86	19.80	
100	PI/2 BPSK	1	137	19.73	19.76	19.75	20.5
100	PI/2 BPSK	1	271	19.73	19.79	19.75	
100	PI/2 BPSK	135	0	19.60	19.68	19.60	
100	PI/2 BPSK	135	69	19.58	19.62	19.54	20.5
100	PI/2 BPSK	135	138	19.58	19.61	19.55	20.5
100	PI/2 BPSK	270	0	19.67	19.71	19.61	
100	QPSK	1	1	19.64	19.64	19.60	
100	QPSK	1	137	19.67	19.70	19.70	20.5
100	QPSK	1	271	19.82	19.85	19.85	
100	QPSK	135	0	19.54	19.61	19.56	
100	QPSK	135	69	19.65	19.72	19.69	20.5
100	QPSK	135	138	19.61	19.68	19.61	20.5
100	QPSK	270	0	19.60	19.67	19.63	
100	16QAM	1	1	19.83	19.84	19.84	
100	64QAM	1	1	19.75	19.85	19.81	20.5
100	256QAM	1	1	19.66	19.67	19.65	20.5
Channel				649668	656000	662332	20.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.70	19.76	19.80	
Channel				649334	656000	662666	20.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.74	19.84	19.79	
Channel				649000	656000	663000	20.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.74	19.78	19.79	
Channel				648668	656000	663332	20.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.74	19.76	19.75	
Channel				648334	656000	663666	20.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.68	19.84	19.71	
Channel				648000	656000	664000	20.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.68	19.84	19.79	
Channel				647668	656000	664332	20.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.71	19.81	19.79	
Channel				647334	656000	664666	20.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.78	19.85	19.70	
Channel				647168	656000	664832	20.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.69	19.76	19.71	
Channel				647000	656000	665000	20.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.75	19.85	19.78	



<FR1 n77 HPUE Main Ant. State 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					633332		18.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.25		18.0
100	PI/2 BPSK	1	137		17.13		
100	PI/2 BPSK	1	271		17.18		18.0
100	PI/2 BPSK	135	0		17.13		
100	PI/2 BPSK	135	69		17.08		18.0
100	PI/2 BPSK	135	138		17.07		
100	PI/2 BPSK	270	0		17.14		18.0
100	QPSK	1	1		17.09		
100	QPSK	1	137		17.10		18.0
100	QPSK	1	271		17.24		
100	QPSK	135	0		17.08		18.0
100	QPSK	135	69		17.06		
100	QPSK	135	138		17.05		18.0
100	QPSK	270	0		17.01		
100	16QAM	1	1		17.09		18.0
100	64QAM	1	1		17.14		
100	256QAM	1	1		17.10		18.0
Channel				633000	633332	633666	18.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.15	17.17	17.23	18.0
Channel				632668	633332	634000	18.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.20	17.23	17.23	18.0
Channel				632334	633332	634332	18.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.19	17.24	17.20	18.0
Channel				632000	633332	634666	18.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.22	17.23	17.18	18.0
Channel				631668	633332	635000	18.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.17	17.24	17.24	18.0
Channel				631334	633332	635332	18.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.16	17.18	17.21	18.0
Channel				631000	633332	635666	18.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.18	17.21	17.23	18.0
Channel				630668	633332	636000	18.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.17	17.19	17.18	18.0
Channel				630500	633332	636166	18.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.19	17.19	17.18	18.0
Channel				630334	633332	636332	18.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.19	17.16	17.25	18.0



<FR1 n77 HPUE MIMO2 Ant State 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					633332		17.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.70		17.5
100	PI/2 BPSK	1	137		16.56		
100	PI/2 BPSK	1	271		16.58		17.5
100	PI/2 BPSK	135	0		16.66		
100	PI/2 BPSK	135	69		16.57		17.5
100	PI/2 BPSK	135	138		16.49		
100	PI/2 BPSK	270	0		16.55		17.5
100	QPSK	1	1		16.61		
100	QPSK	1	137		16.62		17.5
100	QPSK	1	271		16.57		
100	QPSK	135	0		16.65		17.5
100	QPSK	135	69		16.61		
100	QPSK	135	138		16.48		17.5
100	QPSK	270	0		16.52		
100	16QAM	1	1		16.51		17.5
100	64QAM	1	1		16.46		
100	256QAM	1	1		16.49		17.5
Channel				633000	633332	633666	17.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.67	16.63	16.63	17.5
Channel				632668	633332	634000	17.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.66	16.64	16.62	17.5
Channel				632334	633332	634332	17.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.61	16.62	16.67	17.5
Channel				632000	633332	634666	17.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.68	16.60	16.65	17.5
Channel				631668	633332	635000	17.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.60	16.66	16.69	17.5
Channel				631334	633332	635332	17.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.62	16.69	16.64	17.5
Channel				631000	633332	635666	17.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.61	16.65	16.64	17.5
Channel				630668	633332	636000	17.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.63	16.67	16.60	17.5
Channel				630500	633332	636166	17.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.67	16.63	16.61	17.5
Channel				630334	633332	636332	17.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.64	16.61	16.62	17.5



<div style="text-align: center;"><FR1 n77 HPUE Main Ant State 3></div>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		22.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.15		22.5
100	PI/2 BPSK	1	137		22.11		
100	PI/2 BPSK	1	271		22.13		22.5
100	PI/2 BPSK	135	0		22.10		
100	PI/2 BPSK	135	69		22.02		22.5
100	PI/2 BPSK	135	138		22.01		
100	PI/2 BPSK	270	0		22.03		22.5
100	QPSK	1	1		22.12		
100	QPSK	1	137		22.00		22.5
100	QPSK	1	271		22.13		
100	QPSK	135	0		22.02		22.5
100	QPSK	135	69		22.10		
100	QPSK	135	138		22.05		22.5
100	QPSK	270	0		22.02		
100	16QAM	1	1		22.14		22.5
100	64QAM	1	1		21.60		
100	256QAM	1	1		20.61		21.0
Channel				633000	633332	633666	22.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.09	22.07	22.05	22.5
Channel				632668	633332	634000	22.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.06	22.09	22.07	22.5
Channel				632334	633332	634332	22.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.10	22.07	22.14	22.5
Channel				632000	633332	634666	22.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.13	22.12	22.05	22.5
Channel				631668	633332	635000	22.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.09	22.09	22.07	22.5
Channel				631334	633332	635332	22.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.92	22.14	22.07	22.5
Channel				631000	633332	635666	22.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.98	22.09	22.04	22.5
Channel				630668	633332	636000	22.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.99	22.05	22.00	22.5
Channel				630500	633332	636166	22.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.90	22.06	22.05	22.5
Channel				630334	633332	636332	22.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.94	22.12	22.03	22.5



<FR1 n77 HPUE MIMO2 Ant State 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					633332		15.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.59		15.5
100	PI/2 BPSK	1	137		14.46		
100	PI/2 BPSK	1	271		14.45		15.5
100	PI/2 BPSK	135	0		14.51		
100	PI/2 BPSK	135	69		14.50		15.5
100	PI/2 BPSK	135	138		14.37		
100	PI/2 BPSK	270	0		14.39		15.5
100	QPSK	1	1		14.49		
100	QPSK	1	137		14.43		15.5
100	QPSK	1	271		14.41		
100	QPSK	135	0		14.47		15.5
100	QPSK	135	69		14.35		
100	QPSK	135	138		14.42		15.5
100	QPSK	270	0		14.39		
100	16QAM	1	1		14.50		15.5
100	64QAM	1	1		14.45		
100	256QAM	1	1		14.37		15.5
Channel				633000	633332	633666	15.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.37	14.36	14.40	15.5
Channel				632668	633332	634000	15.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.33	14.27	14.40	15.5
Channel				632334	633332	634332	15.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.30	14.26	14.31	15.5
Channel				632000	633332	634666	15.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.28	14.21	14.21	15.5
Channel				631668	633332	635000	15.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.23	14.13	14.21	15.5
Channel				631334	633332	635332	15.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.23	14.12	14.20	15.5
Channel				631000	633332	635666	15.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.19	14.06	14.19	15.5
Channel				630668	633332	636000	15.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.36	14.26	14.31	15.5
Channel				630500	633332	636166	15.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.35	14.18	14.29	15.5
Channel				630334	633332	636332	15.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.27	14.11	14.28	15.5



<FR1 n77 HPUE MIMO1 Ant. State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.63		15.0
100	PI/2 BPSK	1	137		14.36		
100	PI/2 BPSK	1	271		14.43		
100	PI/2 BPSK	135	0		14.45		15.0
100	PI/2 BPSK	135	69		14.34		15.0
100	PI/2 BPSK	135	138		14.38		15.0
100	PI/2 BPSK	270	0		14.42		
100	QPSK	1	1		14.43		
100	QPSK	1	137		14.30		15.0
100	QPSK	1	271		14.52		
100	QPSK	135	0		14.44		
100	QPSK	135	69		14.30		15.0
100	QPSK	135	138		14.35		
100	QPSK	270	0		14.36		
100	16QAM	1	1		14.37		15.0
100	64QAM	1	1		14.24		15.0
100	256QAM	1	1		14.30		15.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.27	14.54	14.36	15.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.23	14.53	14.32	15.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.20	14.52	14.32	15.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.13	14.52	14.24	15.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.08	14.43	14.18	15.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.01	14.41	14.09	15.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.91	14.33	14.02	15.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.23	14.51	14.24	15.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.14	14.46	14.15	15.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.07	14.44	14.09	15.0



<FR1 n77 HPUE Aux Ant. State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.18		20.5
100	PI/2 BPSK	1	137		19.88		
100	PI/2 BPSK	1	271		19.81		20.5
100	PI/2 BPSK	135	0		19.97		
100	PI/2 BPSK	135	69		19.86		20.5
100	PI/2 BPSK	135	138		19.77		
100	PI/2 BPSK	270	0		19.85		20.5
100	QPSK	1	1		20.10		
100	QPSK	1	137		19.85		20.5
100	QPSK	1	271		19.81		
100	QPSK	135	0		19.97		20.5
100	QPSK	135	69		19.86		
100	QPSK	135	138		19.83		20.5
100	QPSK	270	0		19.84		
100	16QAM	1	1		20.02		20.5
100	64QAM	1	1		20.13		
100	256QAM	1	1		20.09		20.5
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit (dBm)
90	PI/2 BPSK	1	1	20.12	20.17	20.12	20.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.09	20.15	20.11	20.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.16	20.14	20.10	20.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.10	20.15	20.13	20.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.12	20.08	20.17	20.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.10	20.09	20.08	20.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.13	20.14	20.10	20.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.11	20.16	20.08	20.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.16	20.13	20.16	20.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.13	20.12	20.11	20.5



<FR1 n78 HPUE Main Ant. State 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					650000		18.0
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		17.70		18.0
100	PI/2 BPSK	1	137		17.64		
100	PI/2 BPSK	1	271		17.56		18.0
100	PI/2 BPSK	135	0		17.67		
100	PI/2 BPSK	135	69		17.62		18.0
100	PI/2 BPSK	135	138		17.62		
100	PI/2 BPSK	270	0		17.70		18.0
100	QPSK	1	1		17.63		
100	QPSK	1	137		17.70		18.0
100	QPSK	1	271		17.54		
100	QPSK	135	0		17.61		18.0
100	QPSK	135	69		17.68		
100	QPSK	135	138		17.76		18.0
100	QPSK	270	0		17.65		
100	16QAM	1	1		17.50		18.0
100	64QAM	1	1		17.56		
100	256QAM	1	1		17.57		18.0
Channel				649668	650000	650332	18.0
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	17.62	17.66	17.59	18.0
Channel				649334	650000	650666	18.0
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	17.64	17.64	17.58	18.0
Channel				649000	650000	651000	18.0
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	17.61	17.60	17.62	18.0
Channel				648668	650000	651332	18.0
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	17.63	17.64	17.65	18.0
Channel				648334	650000	651666	18.0
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	17.57	17.58	17.62	18.0
Channel				648000	650000	652000	18.0
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	17.64	17.64	17.64	18.0
Channel				647668	650000	652332	18.0
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	17.65	17.60	17.62	18.0
Channel				647334	650000	652666	18.0
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	17.63	17.64	17.66	18.0
Channel				647168	650000	652832	18.0
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	17.57	17.67	17.59	18.0
Channel				647000	650000	653000	18.0
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	17.61	17.68	17.67	18.0



<FR1 n78 HPUE MIMO2 Ant State 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					650000		17.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		16.65		17.5
100	PI/2 BPSK	1	137		16.37		
100	PI/2 BPSK	1	271		16.51		17.5
100	PI/2 BPSK	135	0		16.48		
100	PI/2 BPSK	135	69		16.40		17.5
100	PI/2 BPSK	135	138		16.44		
100	PI/2 BPSK	270	0		16.37		17.5
100	QPSK	1	1		16.38		
100	QPSK	1	137		16.32		17.5
100	QPSK	1	271		16.31		
100	QPSK	135	0		16.45		17.5
100	QPSK	135	69		16.39		
100	QPSK	135	138		16.46		17.5
100	QPSK	270	0		16.39		
100	16QAM	1	1		16.28		17.0
100	64QAM	1	1		16.36		17.0
100	256QAM	1	1		16.35		17.0
Channel				649668	650000	650332	17.5
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	16.53	16.49	16.53	17.5
Channel				649334	650000	650666	17.5
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	16.49	16.56	16.51	17.5
Channel				649000	650000	651000	17.5
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	16.49	16.50	16.49	17.5
Channel				648668	650000	651332	17.5
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	16.50	16.55	16.54	17.5
Channel				648334	650000	651666	17.5
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	16.57	16.48	16.53	17.5
Channel				648000	650000	652000	17.5
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	16.54	16.53	16.52	17.5
Channel				647668	650000	652332	17.5
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	16.52	16.48	16.55	17.5
Channel				647334	650000	652666	17.5
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	16.54	16.53	16.54	17.5
Channel				647168	650000	652832	17.5
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	16.49	16.57	16.58	17.5
Channel				647000	650000	653000	17.5
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	16.57	16.48	16.50	17.5



<div style="text-align: center;"><FR1 n78 HPUE Main Ant. State 3></div>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		22.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.05		22.5
100	PI/2 BPSK	1	137		20.97		
100	PI/2 BPSK	1	271		20.95		
100	PI/2 BPSK	135	0		20.91		22.5
100	PI/2 BPSK	135	69		20.97		22.5
100	PI/2 BPSK	135	138		20.92		22.5
100	PI/2 BPSK	270	0		20.88		
100	QPSK	1	1		20.90		
100	QPSK	1	137		20.98		22.5
100	QPSK	1	271		20.99		
100	QPSK	135	0		20.84		
100	QPSK	135	69		21.00		22.5
100	QPSK	135	138		20.91		
100	QPSK	270	0		20.91		
100	16QAM	1	1		20.94		22.5
100	64QAM	1	1		20.97		22.5
100	256QAM	1	1		20.84		21.5
Channel				649668	650000	650332	22.5
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.91	21.03	20.94	22.5
Channel				649334	650000	650666	22.5
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.90	20.97	20.88	22.5
Channel				649000	650000	651000	22.5
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.85	20.88	20.79	22.5
Channel				648668	650000	651332	22.5
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.79	20.79	20.77	22.5
Channel				648334	650000	651666	22.5
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.71	20.75	20.68	22.5
Channel				648000	650000	652000	22.5
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.67	20.72	20.67	22.5
Channel				647668	650000	652332	22.5
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.60	20.65	20.62	22.5
Channel				647334	650000	652666	22.5
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.76	20.72	20.68	22.5
Channel				647168	650000	652832	22.5
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.78	20.73	20.75	22.5
Channel				647000	650000	653000	22.5
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.82	20.78	20.78	22.5



◁FR1 n78 HPUE MIMO2 Ant State 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					650000		15.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		14.52		15.5
100	PI/2 BPSK	1	137		14.48		
100	PI/2 BPSK	1	271		14.47		15.5
100	PI/2 BPSK	135	0		14.37		
100	PI/2 BPSK	135	69		14.42		15.5
100	PI/2 BPSK	135	138		14.41		
100	PI/2 BPSK	270	0		14.33		15.5
100	QPSK	1	1		14.51		
100	QPSK	1	137		14.44		15.5
100	QPSK	1	271		14.32		
100	QPSK	135	0		14.33		15.5
100	QPSK	135	69		14.40		
100	QPSK	135	138		14.22		15.5
100	QPSK	270	0		14.31		
100	16QAM	1	1		14.35		15.5
100	64QAM	1	1		14.43		
100	256QAM	1	1		14.48		15.5
Channel				649668	650000	650332	15.5
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	14.39	14.48	14.39	15.5
Channel				649334	650000	650666	15.5
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	14.35	14.40	14.35	15.5
Channel				649000	650000	651000	15.5
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	14.31	14.37	14.32	15.5
Channel				648668	650000	651332	15.5
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	14.25	14.28	14.27	15.5
Channel				648334	650000	651666	15.5
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	14.16	14.23	14.18	15.5
Channel				648000	650000	652000	15.5
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	14.11	14.18	14.11	15.5
Channel				647668	650000	652332	15.5
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	14.09	14.11	14.07	15.5
Channel				647334	650000	652666	15.5
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	14.37	14.45	14.39	15.5
Channel				647168	650000	652832	15.5
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	14.32	14.37	14.37	15.5
Channel				647000	650000	653000	15.5
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	14.23	14.29	14.34	15.5



<FR1 n78 HPUE MIMO1 Ant_State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		15.0
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		13.88		15.0
100	PI/2 BPSK	1	137		13.87		
100	PI/2 BPSK	1	271		13.85		
100	PI/2 BPSK	135	0		13.81		15.0
100	PI/2 BPSK	135	69		13.87		15.0
100	PI/2 BPSK	135	138		13.77		15.0
100	PI/2 BPSK	270	0		13.85		
100	QPSK	1	1		13.83		
100	QPSK	1	137		13.78		15.0
100	QPSK	1	271		13.78		
100	QPSK	135	0		13.71		
100	QPSK	135	69		13.83		15.0
100	QPSK	135	138		13.73		
100	QPSK	270	0		13.82		
100	16QAM	1	1		13.79		15.0
100	64QAM	1	1		13.72		15.0
100	256QAM	1	1		13.74		15.0
Channel				649668	650000	650332	15.0
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	13.80	13.86	13.79	15.0
Channel				649334	650000	650666	15.0
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	13.70	13.81	13.78	15.0
Channel				649000	650000	651000	15.0
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	13.65	13.76	13.74	15.0
Channel				648668	650000	651332	15.0
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	13.64	13.69	13.66	15.0
Channel				648334	650000	651666	15.0
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	13.60	13.59	13.60	15.0
Channel				648000	650000	652000	15.0
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	13.59	13.49	13.56	15.0
Channel				647668	650000	652332	15.0
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	13.52	13.47	13.46	15.0
Channel				647334	650000	652666	15.0
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	13.66	13.77	13.77	15.0
Channel				647168	650000	652832	15.0
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	13.59	13.67	13.75	15.0
Channel				647000	650000	653000	15.0
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	13.49	13.66	13.71	15.0



<FR1 n78 HPUE Aux Ant. State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		20.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		19.95		20.5
100	PI/2 BPSK	1	137		19.58		
100	PI/2 BPSK	1	271		19.46		
100	PI/2 BPSK	135	0		19.61		20.5
100	PI/2 BPSK	135	69		19.56		20.5
100	PI/2 BPSK	135	138		19.46		20.5
100	PI/2 BPSK	270	0		19.48		
100	QPSK	1	1		19.73		20.5
100	QPSK	1	137		19.49		
100	QPSK	1	271		19.49		
100	QPSK	135	0		19.60		20.5
100	QPSK	135	69		19.50		
100	QPSK	135	138		19.53		
100	QPSK	270	0		19.52		20.5
100	16QAM	1	1		19.71		20.5
100	64QAM	1	1		19.81		20.5
100	256QAM	1	1		19.70		20.5
Channel				649668	650000	650332	20.5
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.94	19.90	19.92	20.5
Channel				649334	650000	650666	20.5
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.92	19.94	19.88	20.5
Channel				649000	650000	651000	20.5
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.92	19.89	19.94	20.5
Channel				648668	650000	651332	20.5
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.85	19.93	19.90	20.5
Channel				648334	650000	651666	20.5
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.89	19.89	19.91	20.5
Channel				648000	650000	652000	20.5
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.92	19.94	19.87	20.5
Channel				647668	650000	652332	20.5
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.90	19.85	19.85	20.5
Channel				647334	650000	652666	20.5
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.93	19.91	19.92	20.5
Channel				647168	650000	652832	20.5
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.90	19.92	19.88	20.5
Channel				647000	650000	653000	20.5
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.85	19.86	19.93	20.5



<FR1 n78 HPUE Main Ant. State 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					633332		18.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.16		18.0
100	PI/2 BPSK	1	137		17.08		
100	PI/2 BPSK	1	271		17.12		18.0
100	PI/2 BPSK	135	0		17.13		
100	PI/2 BPSK	135	69		16.98		18.0
100	PI/2 BPSK	135	138		16.98		
100	PI/2 BPSK	270	0		17.12		18.0
100	QPSK	1	1		17.06		
100	QPSK	1	137		17.04		18.0
100	QPSK	1	271		17.13		
100	QPSK	135	0		17.08		18.0
100	QPSK	135	69		16.97		
100	QPSK	135	138		17.04		18.0
100	QPSK	270	0		17.00		
100	16QAM	1	1		17.07		18.0
100	64QAM	1	1		17.10		
100	256QAM	1	1		17.07		18.0
Channel				633000	633332	633666	18.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.14	17.11	17.19	18.0
Channel				632668	633332	634000	18.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.09	17.13	17.15	18.0
Channel				632334	633332	634332	18.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.05	17.10	17.22	18.0
Channel				632000	633332	634666	18.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.08	17.15	17.18	18.0
Channel				631668	633332	635000	18.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.10	17.12	17.19	18.0
Channel				631334	633332	635332	18.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.15	17.09	17.18	18.0
Channel				631000	633332	635666	18.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.08	17.08	17.21	18.0
Channel				630668	633332	636000	18.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.15	17.11	17.21	18.0
Channel				630500	633332	636166	18.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.10	17.07	17.15	18.0
Channel				630334	633332	636332	18.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.15	17.14	17.14	18.0



<FR1 n78 HPUE MIMO2 Ant State 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					633332		17.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.68		17.5
100	PI/2 BPSK	1	137		16.56		
100	PI/2 BPSK	1	271		16.52		17.5
100	PI/2 BPSK	135	0		16.62		
100	PI/2 BPSK	135	69		16.55		17.5
100	PI/2 BPSK	135	138		16.42		
100	PI/2 BPSK	270	0		16.50		17.5
100	QPSK	1	1		16.59		
100	QPSK	1	137		16.56		17.5
100	QPSK	1	271		16.51		
100	QPSK	135	0		16.57		17.5
100	QPSK	135	69		16.60		
100	QPSK	135	138		16.44		17.0
100	QPSK	270	0		16.43		
100	16QAM	1	1		16.45		17.0
100	64QAM	1	1		16.37		
100	256QAM	1	1		16.43		17.0
Channel				633000	633332	633666	17.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.65	16.63	16.61	17.5
Channel				632668	633332	634000	17.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.62	16.62	16.62	17.5
Channel				632334	633332	634332	17.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.62	16.59	16.63	17.5
Channel				632000	633332	634666	17.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.63	16.66	16.66	17.5
Channel				631668	633332	635000	17.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.67	16.63	16.59	17.5
Channel				631334	633332	635332	17.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.64	16.63	16.63	17.5
Channel				631000	633332	635666	17.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.59	16.60	16.66	17.5
Channel				630668	633332	636000	17.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.63	16.63	16.65	17.5
Channel				630500	633332	636166	17.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.63	16.61	16.64	17.5
Channel				630334	633332	636332	17.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.64	16.59	16.59	17.5



<FR1 n78 HPUE Main Ant State 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					633332		22.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.49		22.5
100	PI/2 BPSK	1	137		21.37		
100	PI/2 BPSK	1	271		21.34		22.5
100	PI/2 BPSK	135	0		21.25		
100	PI/2 BPSK	135	69		21.34		22.5
100	PI/2 BPSK	135	138		21.36		
100	PI/2 BPSK	270	0		21.29		22.5
100	QPSK	1	1		21.27		
100	QPSK	1	137		21.33		22.5
100	QPSK	1	271		21.41		
100	QPSK	135	0		21.33		22.5
100	QPSK	135	69		21.44		
100	QPSK	135	138		21.22		22.5
100	QPSK	270	0		21.24		
100	16QAM	1	1		21.26		22.5
100	64QAM	1	1		21.35		
100	256QAM	1	1		20.38		21.0
Channel				633000	633332	633666	22.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.37	21.43	21.28	22.5
Channel				632668	633332	634000	22.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.36	21.37	21.18	22.5
Channel				632334	633332	634332	22.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.27	21.33	21.17	22.5
Channel				632000	633332	634666	22.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.17	21.25	21.15	22.5
Channel				631668	633332	635000	22.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.17	21.23	21.12	22.5
Channel				631334	633332	635332	22.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.10	21.20	21.02	22.5
Channel				631000	633332	635666	22.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.05	21.19	20.95	22.5
Channel				630668	633332	636000	22.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.17	21.14	20.95	22.5
Channel				630500	633332	636166	22.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.17	21.22	21.03	22.5
Channel				630334	633332	636332	22.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.19	21.26	21.12	22.5



<FR1 n78 HPUE MIMO2 Ant State 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					633332		15.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.17		15.5
100	PI/2 BPSK	1	137		14.02		
100	PI/2 BPSK	1	271		14.00		15.5
100	PI/2 BPSK	135	0		14.06		
100	PI/2 BPSK	135	69		14.07		15.5
100	PI/2 BPSK	135	138		13.97		
100	PI/2 BPSK	270	0		14.03		15.5
100	QPSK	1	1		14.09		
100	QPSK	1	137		13.99		15.5
100	QPSK	1	271		14.01		
100	QPSK	135	0		14.07		15.5
100	QPSK	135	69		13.98		
100	QPSK	135	138		13.92		15.5
100	QPSK	270	0		14.02		
100	16QAM	1	1		14.01		15.5
100	64QAM	1	1		13.97		
100	256QAM	1	1		13.99		15.5
Channel				633000	633332	633666	15.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	13.98	13.99	13.95	15.5
Channel				632668	633332	634000	15.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.92	13.95	13.86	15.5
Channel				632334	633332	634332	15.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.87	13.85	13.82	15.5
Channel				632000	633332	634666	15.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.87	13.82	13.77	15.5
Channel				631668	633332	635000	15.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.86	13.77	13.71	15.5
Channel				631334	633332	635332	15.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.81	13.76	13.61	15.5
Channel				631000	633332	635666	15.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.77	13.69	13.52	15.5
Channel				630668	633332	636000	15.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.95	13.94	13.88	15.5
Channel				630500	633332	636166	15.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.95	13.85	13.80	15.5
Channel				630334	633332	636332	15.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.85	13.78	13.72	15.5



<FR1 n78 HPUE MIMO1 Ant. State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		15.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		13.96		15.0
100	PI/2 BPSK	1	137		13.78		
100	PI/2 BPSK	1	271		13.80		
100	PI/2 BPSK	135	0		13.80		15.0
100	PI/2 BPSK	135	69		13.77		15.0
100	PI/2 BPSK	135	138		13.77		15.0
100	PI/2 BPSK	270	0		13.69		
100	QPSK	1	1		13.70		15.0
100	QPSK	1	137		13.73		
100	QPSK	1	271		13.83		
100	QPSK	135	0		13.78		15.0
100	QPSK	135	69		13.81		
100	QPSK	135	138		13.73		
100	QPSK	270	0		13.83		15.0
100	16QAM	1	1		13.85		15.0
100	64QAM	1	1		13.75		15.0
100	256QAM	1	1		13.59		15.0
Channel				633000	633332	633666	15.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	13.69	13.86	13.80	15.0
Channel				632668	633332	634000	15.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.61	13.84	13.75	15.0
Channel				632334	633332	634332	15.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.54	13.78	13.67	15.0
Channel				632000	633332	634666	15.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.50	13.69	13.67	15.0
Channel				631668	633332	635000	15.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.43	13.65	13.61	15.0
Channel				631334	633332	635332	15.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.39	13.58	13.60	15.0
Channel				631000	633332	635666	15.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.30	13.56	13.55	15.0
Channel				630668	633332	636000	15.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.51	13.78	13.65	15.0
Channel				630500	633332	636166	15.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.42	13.74	13.61	15.0
Channel				630334	633332	636332	15.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.42	13.66	13.61	15.0



<FR1 n78 HPUE Aux Ant. State 2/3>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.10		20.5
100	PI/2 BPSK	1	137		19.83		
100	PI/2 BPSK	1	271		19.81		20.5
100	PI/2 BPSK	135	0		19.88		
100	PI/2 BPSK	135	69		19.86		20.5
100	PI/2 BPSK	135	138		19.73		
100	PI/2 BPSK	270	0		19.76		20.5
100	QPSK	1	1		20.06		
100	QPSK	1	137		19.81		20.5
100	QPSK	1	271		19.71		
100	QPSK	135	0		19.88		20.5
100	QPSK	135	69		19.77		
100	QPSK	135	138		19.81		20.5
100	QPSK	270	0		19.77		
100	16QAM	1	1		19.98		20.5
100	64QAM	1	1		20.09		
100	256QAM	1	1		20.09		20.5
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit (dBm)
90	PI/2 BPSK	1	1	20.07	20.05	20.07	20.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.01	20.03	20.05	20.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.08	20.01	20.05	20.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.05	20.03	20.04	20.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.06	20.01	20.06	20.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.04	20.02	20.07	20.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.88	19.94	20.09	20.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.99	20.07	20.08	20.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.09	19.89	19.97	20.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.92	19.98	20.03	20.5