



Appendix E. Output Power Measurement

<WCDMA Conducted Power>

【WCDMA II】

TX Channel		9262	9400	9538	Tune-up Limit (dBm)
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	RMC 12.2Kbps	23.54	23.66	23.52	24.00
3GPP Rel 6	HSDPA Subtest-1	22.54	22.71	22.52	23.00
3GPP Rel 6	HSDPA Subtest-2	22.52	22.62	22.46	23.00
3GPP Rel 6	HSDPA Subtest-3	22.02	22.16	22.08	22.50
3GPP Rel 6	HSDPA Subtest-4	22.02	22.16	22.08	22.50
3GPP Rel 6	HSUPA Subtest-1	22.54	22.71	22.52	23.00
3GPP Rel 6	HSUPA Subtest-2	20.59	20.67	20.48	21.00
3GPP Rel 6	HSUPA Subtest-3	21.59	21.65	21.48	22.00
3GPP Rel 6	HSUPA Subtest-4	20.55	20.66	20.50	21.00
3GPP Rel 6	HSUPA Subtest-5	22.49	22.70	22.52	23.00

【WCDMA IV】

TX Channel		1312	1413	1513	Tune-up Limit (dBm)
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	23.73	23.87	23.63	24.00
3GPP Rel 6	HSDPA Subtest-1	22.70	22.87	22.73	23.00
3GPP Rel 6	HSDPA Subtest-2	22.69	22.77	22.64	23.00
3GPP Rel 6	HSDPA Subtest-3	22.18	22.38	22.26	22.50
3GPP Rel 6	HSDPA Subtest-4	22.19	22.31	22.34	22.50
3GPP Rel 6	HSUPA Subtest-1	22.78	22.95	22.72	23.00
3GPP Rel 6	HSUPA Subtest-2	20.84	20.82	20.72	21.00
3GPP Rel 6	HSUPA Subtest-3	21.84	21.91	21.71	22.00
3GPP Rel 6	HSUPA Subtest-4	20.75	20.91	20.75	21.00
3GPP Rel 6	HSUPA Subtest-5	22.68	22.85	22.76	23.00

【WCDMA V】

TX Channel		4132	4182	4233	Tune-up Limit (dBm)
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.82	23.87	23.81	24.00
3GPP Rel 6	HSDPA Subtest-1	22.79	22.89	22.76	23.00
3GPP Rel 6	HSDPA Subtest-2	22.65	22.82	22.66	23.00
3GPP Rel 6	HSDPA Subtest-3	22.19	22.40	22.30	22.50
3GPP Rel 6	HSDPA Subtest-4	22.20	22.38	22.25	22.50
3GPP Rel 6	HSUPA Subtest-1	22.67	22.86	22.70	23.00
3GPP Rel 6	HSUPA Subtest-2	20.73	20.91	20.61	21.00
3GPP Rel 6	HSUPA Subtest-3	21.83	21.87	21.63	22.00
3GPP Rel 6	HSUPA Subtest-4	20.76	20.81	20.66	21.00
3GPP Rel 6	HSUPA Subtest-5	22.66	22.87	22.76	23.00

<LTE Conducted Power>
【LTE Band 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.18	23.25	23.11	24.00
20	QPSK	1	49	23.21	23.19	22.82	24.00
20	QPSK	1	99	23.12	23.03	22.69	24.00
20	QPSK	50	0	22.15	22.23	22.09	23.00
20	QPSK	50	24	22.15	22.09	21.74	23.00
20	QPSK	50	50	22.10	22.08	21.70	23.00
20	QPSK	100	0	22.14	22.07	21.72	23.00
20	16QAM	1	0	21.78	21.72	21.43	23.00
20	16QAM	1	49	21.85	21.82	21.45	23.00
20	16QAM	1	99	21.85	21.74	21.43	23.00
20	16QAM	50	0	20.85	20.81	20.54	22.00
20	16QAM	50	24	20.99	20.95	20.60	22.00
20	16QAM	50	50	20.98	20.97	20.69	22.00
20	16QAM	100	0	20.85	20.84	20.59	22.00
20	64QAM	1	0	21.19	21.08	20.79	22.00
20	64QAM	1	49	21.10	21.07	20.74	22.00
20	64QAM	1	99	21.18	21.06	20.76	22.00
20	64QAM	50	0	20.26	20.20	19.93	21.00
20	64QAM	50	24	20.16	20.11	19.77	21.00
20	64QAM	50	50	20.12	20.08	19.78	21.00
20	64QAM	100	0	20.02	19.89	19.64	21.00
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.05	22.98	22.65	24.00
15	QPSK	1	37	23.17	23.14	22.69	24.00
15	QPSK	1	74	22.97	22.99	22.55	24.00
15	QPSK	36	0	22.02	21.95	21.55	23.00
15	QPSK	36	20	22.05	21.97	21.62	23.00
15	QPSK	36	39	22.12	21.98	21.62	23.00
15	QPSK	75	0	22.00	21.99	21.62	23.00
15	16QAM	1	0	21.69	21.69	21.41	23.00
15	16QAM	1	37	21.81	21.67	21.40	23.00
15	16QAM	1	74	21.73	21.66	21.31	23.00
15	16QAM	36	0	20.76	20.67	20.41	22.00
15	16QAM	36	20	20.91	20.89	20.53	22.00
15	16QAM	36	39	20.88	20.92	20.66	22.00
15	16QAM	75	0	20.82	20.72	20.44	22.00
15	64QAM	1	0	21.17	21.03	20.78	22.00
15	64QAM	1	37	21.09	21.02	20.59	22.00
15	64QAM	1	74	21.04	20.94	20.66	22.00
15	64QAM	36	0	20.23	20.19	19.79	21.00
15	64QAM	36	20	20.02	20.06	19.69	21.00
15	64QAM	36	39	19.99	19.99	19.74	21.00
15	64QAM	75	0	19.90	19.85	19.49	21.00
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.04	22.98	22.67	24.00
10	QPSK	1	25	23.15	23.16	22.72	24.00
10	QPSK	1	49	23.05	22.96	22.68	24.00
10	QPSK	25	0	21.99	21.99	21.63	23.00
10	QPSK	25	12	22.06	22.04	21.64	23.00
10	QPSK	25	25	22.06	22.00	21.57	23.00
10	QPSK	50	0	22.06	21.96	21.68	23.00
10	16QAM	1	0	21.73	21.58	21.35	23.00
10	16QAM	1	25	21.73	21.68	21.34	23.00
10	16QAM	1	49	21.73	21.72	21.36	23.00
10	16QAM	25	0	20.74	20.77	20.41	22.00
10	16QAM	25	12	20.98	20.91	20.46	22.00
10	16QAM	25	25	20.90	20.95	20.62	22.00
10	16QAM	50	0	20.77	20.82	20.54	22.00
10	64QAM	1	0	21.12	21.05	20.68	22.00
10	64QAM	1	25	20.95	21.04	20.63	22.00
10	64QAM	1	49	21.10	21.00	20.65	22.00
10	64QAM	25	0	20.15	20.18	19.80	21.00
10	64QAM	25	12	20.14	20.06	19.63	21.00



10	64QAM	25	25	20.01	19.96	19.76	21.00
10	64QAM	50	0	19.99	19.84	19.56	21.00
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.07	22.98	22.72	24.00
5	QPSK	1	12	23.22	23.15	22.74	24.00
5	QPSK	1	24	22.97	22.89	22.62	24.00
5	QPSK	12	0	21.95	22.01	21.59	23.00
5	QPSK	12	7	22.02	21.99	21.62	23.00
5	QPSK	12	13	22.12	21.98	21.62	23.00
5	QPSK	25	0	22.09	21.97	21.61	23.00
5	16QAM	1	0	21.70	21.58	21.30	23.00
5	16QAM	1	12	21.76	21.80	21.30	23.00
5	16QAM	1	24	21.82	21.69	21.34	23.00
5	16QAM	12	0	20.76	20.69	20.44	22.00
5	16QAM	12	7	20.93	20.83	20.49	22.00
5	16QAM	12	13	20.96	20.91	20.58	22.00
5	16QAM	25	0	20.81	20.75	20.50	22.00
5	64QAM	1	0	21.13	20.94	20.68	22.00
5	64QAM	1	12	20.98	21.02	20.63	22.00
5	64QAM	1	24	21.07	20.99	20.73	22.00
5	64QAM	12	0	20.13	20.07	19.89	21.00
5	64QAM	12	7	20.02	20.07	19.62	21.00
5	64QAM	12	13	20.06	19.95	19.66	21.00
5	64QAM	25	0	19.91	19.76	19.56	21.00
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.12	23.00	22.70	24.00
3	QPSK	1	8	23.16	23.12	22.73	24.00
3	QPSK	1	14	23.07	22.89	22.55	24.00
3	QPSK	8	0	22.04	21.96	21.59	23.00
3	QPSK	8	4	22.06	21.97	21.66	23.00
3	QPSK	8	7	22.12	21.94	21.59	23.00
3	QPSK	15	0	21.99	22.02	21.67	23.00
3	16QAM	1	0	21.76	21.58	21.39	23.00
3	16QAM	1	8	21.81	21.73	21.34	23.00
3	16QAM	1	14	21.79	21.66	21.36	23.00
3	16QAM	8	0	20.76	20.72	20.52	22.00
3	16QAM	8	4	20.84	20.85	20.57	22.00
3	16QAM	8	7	20.91	20.92	20.63	22.00
3	16QAM	15	0	20.78	20.82	20.44	22.00
3	64QAM	1	0	21.05	20.95	20.75	22.00
3	64QAM	1	8	20.98	21.03	20.62	22.00
3	64QAM	1	14	21.16	20.99	20.74	22.00
3	64QAM	8	0	20.15	20.09	19.88	21.00
3	64QAM	8	4	20.07	20.05	19.64	21.00
3	64QAM	8	7	20.03	19.95	19.74	21.00
3	64QAM	15	0	19.93	19.75	19.59	21.00
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.09	22.86	22.74	24.00
1.4	QPSK	1	3	23.24	23.16	22.78	24.00
1.4	QPSK	1	5	23.09	22.94	22.60	24.00
1.4	QPSK	3	0	23.06	22.97	22.58	24.00
1.4	QPSK	3	1	23.12	23.02	22.64	24.00
1.4	QPSK	3	3	23.12	23.04	22.66	24.00
1.4	QPSK	6	0	22.01	21.94	21.60	23.00
1.4	16QAM	1	0	21.70	21.65	21.38	23.00
1.4	16QAM	1	3	21.81	21.78	21.40	23.00
1.4	16QAM	1	5	21.81	21.70	21.34	23.00
1.4	16QAM	3	0	21.78	21.68	21.44	23.00
1.4	16QAM	3	1	21.98	21.93	21.55	23.00
1.4	16QAM	3	3	21.84	21.90	21.66	23.00
1.4	16QAM	6	0	20.83	20.74	20.49	22.00
1.4	64QAM	1	0	21.06	21.01	20.75	22.00
1.4	64QAM	1	3	21.06	21.05	20.70	22.00
1.4	64QAM	1	5	21.17	21.01	20.70	22.00
1.4	64QAM	3	0	21.24	21.14	20.87	22.00
1.4	64QAM	3	1	21.07	21.05	20.71	22.00
1.4	64QAM	3	3	21.10	21.00	20.69	22.00
1.4	64QAM	6	0	19.99	19.82	19.58	21.00

【LTE Band 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.95	23.11	22.90	24.00
20	QPSK	1	49	22.71	23.08	23.01	24.00
20	QPSK	1	99	22.23	22.65	22.49	24.00
20	QPSK	50	0	22.02	22.09	22.03	23.00
20	QPSK	50	24	21.73	22.05	21.91	23.00
20	QPSK	50	50	21.66	21.95	21.79	23.00
20	QPSK	100	0	21.75	22.03	21.86	23.00
20	16QAM	1	0	21.33	21.68	21.60	23.00
20	16QAM	1	49	21.51	21.82	21.73	23.00
20	16QAM	1	99	21.42	21.69	21.58	23.00
20	16QAM	50	0	20.70	21.04	20.94	22.00
20	16QAM	50	24	20.75	21.07	20.94	22.00
20	16QAM	50	50	20.58	20.93	20.82	22.00
20	16QAM	100	0	20.58	20.94	20.87	22.00
20	64QAM	1	0	21.03	21.33	21.21	22.00
20	64QAM	1	49	20.99	21.27	21.09	22.00
20	64QAM	1	99	20.95	21.35	21.24	22.00
20	64QAM	50	0	19.55	19.92	19.84	21.00
20	64QAM	50	24	19.61	19.91	19.79	21.00
20	64QAM	50	50	19.60	19.93	19.75	21.00
20	64QAM	100	0	19.50	19.88	19.77	21.00
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.63	22.82	22.85	24.00
15	QPSK	1	37	22.70	23.02	22.89	24.00
15	QPSK	1	74	22.18	22.63	22.40	24.00
15	QPSK	36	0	21.62	21.96	21.76	23.00
15	QPSK	36	20	21.62	21.98	21.82	23.00
15	QPSK	36	39	21.63	21.88	21.74	23.00
15	QPSK	75	0	21.63	22.00	21.78	23.00
15	16QAM	1	0	21.21	21.64	21.57	23.00
15	16QAM	1	37	21.48	21.81	21.58	23.00
15	16QAM	1	74	21.33	21.64	21.56	23.00
15	16QAM	36	0	20.55	20.91	20.88	22.00
15	16QAM	36	20	20.66	21.05	20.86	22.00
15	16QAM	36	39	20.51	20.85	20.81	22.00
15	16QAM	75	0	20.50	20.83	20.81	22.00
15	64QAM	1	0	20.92	21.25	21.09	22.00
15	64QAM	1	37	20.93	21.23	20.97	22.00
15	64QAM	1	74	20.90	21.27	21.17	22.00
15	64QAM	36	0	19.47	19.84	19.74	21.00
15	64QAM	36	20	19.52	19.85	19.66	21.00
15	64QAM	36	39	19.54	19.91	19.73	21.00
15	64QAM	75	0	19.45	19.82	19.63	21.00
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.64	22.82	22.77	24.00
10	QPSK	1	25	22.66	22.98	22.93	24.00
10	QPSK	1	49	22.17	22.53	22.36	24.00
10	QPSK	25	0	21.66	21.93	21.85	23.00
10	QPSK	25	12	21.63	21.99	21.84	23.00
10	QPSK	25	25	21.53	21.85	21.73	23.00
10	QPSK	50	0	21.64	21.90	21.84	23.00
10	16QAM	1	0	21.23	21.61	21.58	23.00
10	16QAM	1	25	21.49	21.70	21.65	23.00
10	16QAM	1	49	21.29	21.57	21.49	23.00
10	16QAM	25	0	20.66	20.92	20.93	22.00
10	16QAM	25	12	20.63	21.00	20.86	22.00
10	16QAM	25	25	20.57	20.84	20.80	22.00
10	16QAM	50	0	20.51	20.90	20.78	22.00
10	64QAM	1	0	20.98	21.21	21.06	22.00
10	64QAM	1	25	20.94	21.16	21.02	22.00
10	64QAM	1	49	20.90	21.23	21.13	22.00
10	64QAM	25	0	19.44	19.77	19.77	21.00
10	64QAM	25	12	19.55	19.83	19.78	21.00
10	64QAM	25	25	19.46	19.84	19.73	21.00



10	64QAM	50	0	19.47	19.82	19.72	21.00
Channel				19975	20175	20375	Tune-up limit
Frequency (MHz)				1712.5	1732.5	1752.5	(dBm)
5	QPSK	1	0	22.59	22.82	22.76	24.00
5	QPSK	1	12	22.64	22.94	22.98	24.00
5	QPSK	1	24	22.19	22.52	22.35	24.00
5	QPSK	12	0	21.67	21.88	21.76	23.00
5	QPSK	12	7	21.61	21.94	21.81	23.00
5	QPSK	12	13	21.62	21.83	21.68	23.00
5	QPSK	25	0	21.62	22.01	21.75	23.00
5	16QAM	1	0	21.29	21.57	21.50	23.00
5	16QAM	1	12	21.44	21.68	21.62	23.00
5	16QAM	1	24	21.40	21.63	21.46	23.00
5	16QAM	12	0	20.59	20.99	20.92	22.00
5	16QAM	12	7	20.65	21.04	20.93	22.00
5	16QAM	12	13	20.54	20.91	20.69	22.00
5	16QAM	25	0	20.51	20.83	20.80	22.00
5	64QAM	1	0	20.94	21.27	21.16	22.00
5	64QAM	1	12	20.89	21.14	20.95	22.00
5	64QAM	1	24	20.90	21.32	21.12	22.00
5	64QAM	12	0	19.46	19.81	19.75	21.00
5	64QAM	12	7	19.47	19.81	19.67	21.00
5	64QAM	12	13	19.45	19.89	19.63	21.00
5	64QAM	25	0	19.45	19.73	19.67	21.00
Channel				19965	20175	20385	Tune-up limit
Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	22.63	22.90	22.82	24.00
3	QPSK	1	8	22.69	23.05	22.93	24.00
3	QPSK	1	14	22.20	22.57	22.45	24.00
3	QPSK	8	0	21.61	22.00	21.83	23.00
3	QPSK	8	4	21.65	22.01	21.84	23.00
3	QPSK	8	7	21.64	21.88	21.72	23.00
3	QPSK	15	0	21.66	21.96	21.73	23.00
3	16QAM	1	0	21.28	21.61	21.57	23.00
3	16QAM	1	8	21.45	21.78	21.63	23.00
3	16QAM	1	14	21.28	21.58	21.57	23.00
3	16QAM	8	0	20.63	20.93	20.92	22.00
3	16QAM	8	4	20.69	20.95	20.92	22.00
3	16QAM	8	7	20.56	20.91	20.73	22.00
3	16QAM	15	0	20.46	20.91	20.72	22.00
3	64QAM	1	0	20.98	21.27	21.13	22.00
3	64QAM	1	8	20.96	21.19	20.99	22.00
3	64QAM	1	14	20.93	21.33	21.21	22.00
3	64QAM	8	0	19.53	19.80	19.83	21.00
3	64QAM	8	4	19.51	19.84	19.75	21.00
3	64QAM	8	7	19.56	19.86	19.63	21.00
3	64QAM	15	0	19.48	19.75	19.72	21.00
Channel				19957	20175	20393	Tune-up limit
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	22.58	22.83	22.88	24.00
1.4	QPSK	1	3	22.67	22.95	22.97	24.00
1.4	QPSK	1	5	22.21	22.52	22.42	24.00
1.4	QPSK	3	0	22.64	22.98	22.78	24.00
1.4	QPSK	3	1	22.69	22.92	22.80	24.00
1.4	QPSK	3	3	22.53	22.88	22.71	24.00
1.4	QPSK	6	0	21.63	21.91	21.79	23.00
1.4	16QAM	1	0	21.29	21.53	21.49	23.00
1.4	16QAM	1	3	21.38	21.75	21.63	23.00
1.4	16QAM	1	5	21.31	21.64	21.54	23.00
1.4	16QAM	3	0	21.58	21.90	21.83	23.00
1.4	16QAM	3	1	21.64	21.94	21.91	23.00
1.4	16QAM	3	3	21.55	21.91	21.76	23.00
1.4	16QAM	6	0	20.54	20.83	20.75	22.00
1.4	64QAM	1	0	20.91	21.28	21.09	22.00
1.4	64QAM	1	3	20.93	21.24	20.97	22.00
1.4	64QAM	1	5	20.85	21.28	21.09	22.00
1.4	64QAM	3	0	20.49	20.83	20.72	22.00
1.4	64QAM	3	1	20.50	20.84	20.65	22.00
1.4	64QAM	3	3	20.56	20.79	20.69	22.00
1.4	64QAM	6	0	19.43	19.85	19.71	21.00



【LTE Band 5】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.16	23.23	23.19	24.00
10	QPSK	1	25	23.04	23.13	23.01	24.00
10	QPSK	1	49	22.83	23.00	22.88	24.00
10	QPSK	25	0	22.13	22.25	22.14	23.00
10	QPSK	25	12	22.11	22.21	22.12	23.00
10	QPSK	25	25	22.10	22.20	22.14	23.00
10	QPSK	50	0	22.04	22.25	22.20	23.00
10	16QAM	1	0	21.88	22.03	21.98	23.00
10	16QAM	1	25	21.90	22.06	21.88	23.00
10	16QAM	1	49	21.86	22.03	21.98	23.00
10	16QAM	25	0	20.98	21.07	20.98	22.00
10	16QAM	25	12	20.99	21.08	21.03	22.00
10	16QAM	25	25	20.91	21.00	20.83	22.00
10	16QAM	50	0	20.90	21.05	20.95	22.00
10	64QAM	1	0	20.86	21.01	20.86	22.00
10	64QAM	1	25	20.94	21.02	20.91	22.00
10	64QAM	1	49	20.89	21.02	20.85	22.00
10	64QAM	25	0	20.11	20.21	20.06	21.00
10	64QAM	25	12	20.05	20.17	20.07	21.00
10	64QAM	25	25	19.97	20.12	20.06	21.00
10	64QAM	50	0	20.02	20.16	20.06	21.00
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.03	23.17	23.09	24.00
5	QPSK	1	12	22.98	23.11	22.97	24.00
5	QPSK	1	24	22.80	22.88	22.80	24.00
5	QPSK	12	0	22.07	22.11	22.13	23.00
5	QPSK	12	7	21.98	22.14	21.99	23.00
5	QPSK	12	13	21.98	22.06	22.12	23.00
5	QPSK	25	0	21.91	22.24	22.12	23.00
5	16QAM	1	0	21.84	22.00	21.94	23.00
5	16QAM	1	12	21.78	22.02	21.85	23.00
5	16QAM	1	24	21.80	22.00	21.89	23.00
5	16QAM	12	0	20.85	21.04	20.84	22.00
5	16QAM	12	7	20.94	21.03	20.96	22.00
5	16QAM	12	13	20.89	20.86	20.77	22.00
5	16QAM	25	0	20.89	21.00	20.91	22.00
5	64QAM	1	0	20.84	20.94	20.83	22.00
5	64QAM	1	12	20.89	20.92	20.79	22.00
5	64QAM	1	24	20.81	20.97	20.79	22.00
5	64QAM	12	0	20.04	20.12	19.97	21.00
5	64QAM	12	7	19.91	20.15	19.99	21.00
5	64QAM	12	13	19.93	20.02	19.94	21.00
5	64QAM	25	0	20.00	20.05	19.97	21.00
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.03	23.19	23.16	24.00
3	QPSK	1	8	23.02	22.99	22.97	24.00
3	QPSK	1	14	22.81	22.94	22.81	24.00
3	QPSK	8	0	22.10	22.24	22.02	23.00
3	QPSK	8	4	21.96	22.10	22.05	23.00
3	QPSK	8	7	22.06	22.09	22.05	23.00
3	QPSK	15	0	21.92	22.15	22.17	23.00
3	16QAM	1	0	21.83	21.96	21.91	23.00
3	16QAM	1	8	21.89	21.99	21.82	23.00
3	16QAM	1	14	21.73	21.98	21.92	23.00
3	16QAM	8	0	20.96	21.01	20.85	22.00
3	16QAM	8	4	20.89	20.99	20.98	22.00
3	16QAM	8	7	20.78	20.96	20.69	22.00
3	16QAM	15	0	20.78	20.91	20.93	22.00
3	64QAM	1	0	20.74	20.89	20.73	22.00
3	64QAM	1	8	20.85	20.89	20.90	22.00
3	64QAM	1	14	20.82	20.92	20.80	22.00
3	64QAM	8	0	20.03	20.19	20.02	21.00
3	64QAM	8	4	19.99	20.07	19.96	21.00
3	64QAM	8	7	19.96	20.07	19.99	21.00
3	64QAM	15	0	19.91	20.11	19.98	21.00

Channel				20407	20525	20643	Tune-up limit
Frequency (MHz)				824.7	836.5	848.3	(dBm)
1.4	QPSK	1	0	23.04	23.17	23.14	24.00
1.4	QPSK	1	3	23.01	23.02	22.86	24.00
1.4	QPSK	1	5	22.74	22.92	22.80	24.00
1.4	QPSK	3	0	23.09	23.17	23.00	24.00
1.4	QPSK	3	1	23.04	23.12	23.10	24.00
1.4	QPSK	3	3	23.04	23.14	23.12	24.00
1.4	QPSK	6	0	21.90	22.19	22.08	23.00
1.4	16QAM	1	0	21.78	21.89	21.87	23.00
1.4	16QAM	1	3	21.76	21.92	21.77	23.00
1.4	16QAM	1	5	21.82	21.92	21.95	23.00
1.4	16QAM	3	0	21.84	22.06	21.89	23.00
1.4	16QAM	3	1	21.98	22.01	21.99	23.00
1.4	16QAM	3	3	21.85	21.91	21.82	23.00
1.4	16QAM	6	0	20.89	21.00	20.89	22.00
1.4	64QAM	1	0	20.81	20.95	20.74	22.00
1.4	64QAM	1	3	20.79	20.88	20.88	22.00
1.4	64QAM	1	5	20.87	20.87	20.71	22.00
1.4	64QAM	3	0	21.02	21.10	20.99	22.00
1.4	64QAM	3	1	21.04	21.12	20.95	22.00
1.4	64QAM	3	3	20.96	21.08	21.03	22.00
1.4	64QAM	6	0	19.97	20.04	19.94	21.00

【LTE Band 7】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.16	23.23	23.19	24.00
20	QPSK	1	49	23.04	23.13	23.01	24.00
20	QPSK	1	99	22.83	23.00	22.88	24.00
20	QPSK	50	0	22.13	22.25	22.14	23.00
20	QPSK	50	24	22.11	22.21	22.12	23.00
20	QPSK	50	50	22.10	22.20	22.14	23.00
20	QPSK	100	0	22.04	22.25	22.20	23.00
20	16QAM	1	0	21.88	22.03	21.98	23.00
20	16QAM	1	49	21.90	22.06	21.88	23.00
20	16QAM	1	99	21.86	22.03	21.98	23.00
20	16QAM	50	0	20.98	21.07	20.98	22.00
20	16QAM	50	24	20.99	21.08	21.03	22.00
20	16QAM	50	50	20.91	21.00	20.83	22.00
20	16QAM	100	0	20.90	21.05	20.95	22.00
20	64QAM	1	0	20.86	21.01	20.86	22.00
20	64QAM	1	49	20.94	21.02	20.91	22.00
20	64QAM	1	99	20.89	21.02	20.85	22.00
20	64QAM	50	0	20.11	20.21	20.06	21.00
20	64QAM	50	24	20.05	20.17	20.07	21.00
20	64QAM	50	50	19.97	20.12	20.06	21.00
20	64QAM	100	0	20.02	20.16	20.06	21.00
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.03	23.17	23.09	24.00
15	QPSK	1	37	22.98	23.11	22.97	24.00
15	QPSK	1	74	22.80	22.88	22.80	24.00
15	QPSK	36	0	22.07	22.11	22.13	23.00
15	QPSK	36	20	21.98	22.14	21.99	23.00
15	QPSK	36	39	21.98	22.06	22.12	23.00
15	QPSK	75	0	21.91	22.24	22.12	23.00
15	16QAM	1	0	21.84	22.00	21.94	23.00
15	16QAM	1	37	21.78	22.02	21.85	23.00
15	16QAM	1	74	21.80	22.00	21.89	23.00
15	16QAM	36	0	20.85	21.04	20.84	22.00
15	16QAM	36	20	20.94	21.03	20.96	22.00
15	16QAM	36	39	20.89	20.86	20.77	22.00
15	16QAM	75	0	20.89	21.00	20.91	22.00
15	64QAM	1	0	20.84	20.94	20.83	22.00
15	64QAM	1	37	20.89	20.92	20.79	22.00
15	64QAM	1	74	20.81	20.97	20.79	22.00



15	64QAM	36	0	20.04	20.12	19.97	21.00
15	64QAM	36	20	19.91	20.15	19.99	21.00
15	64QAM	36	39	19.93	20.02	19.94	21.00
15	64QAM	75	0	20.00	20.05	19.97	21.00
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.03	23.19	23.16	24.00
10	QPSK	1	25	23.02	22.99	22.97	24.00
10	QPSK	1	49	22.81	22.94	22.81	24.00
10	QPSK	25	0	22.10	22.24	22.02	23.00
10	QPSK	25	12	21.96	22.10	22.05	23.00
10	QPSK	25	25	22.06	22.09	22.05	23.00
10	QPSK	50	0	21.92	22.15	22.17	23.00
10	16QAM	1	0	21.83	21.96	21.91	23.00
10	16QAM	1	25	21.89	21.99	21.82	23.00
10	16QAM	1	49	21.73	21.98	21.92	23.00
10	16QAM	25	0	20.96	21.01	20.85	22.00
10	16QAM	25	12	20.89	20.99	20.98	22.00
10	16QAM	25	25	20.78	20.96	20.69	22.00
10	16QAM	50	0	20.78	20.91	20.93	22.00
10	64QAM	1	0	20.74	20.89	20.73	22.00
10	64QAM	1	25	20.85	20.89	20.90	22.00
10	64QAM	1	49	20.82	20.92	20.80	22.00
10	64QAM	25	0	20.03	20.19	20.02	21.00
10	64QAM	25	12	19.99	20.07	19.96	21.00
10	64QAM	25	25	19.96	20.07	19.99	21.00
10	64QAM	50	0	19.91	20.11	19.98	21.00
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.04	23.17	23.14	24.00
5	QPSK	1	12	23.00	23.05	23.03	24.00
5	QPSK	1	24	22.89	23.12	23.11	24.00
5	QPSK	12	0	22.10	22.14	22.17	23.00
5	QPSK	12	7	22.07	22.24	22.14	23.00
5	QPSK	12	13	22.03	22.23	22.21	23.00
5	QPSK	25	0	22.04	22.14	22.10	23.00
5	16QAM	1	0	22.05	22.22	22.11	23.00
5	16QAM	1	12	22.09	22.22	22.13	23.00
5	16QAM	1	24	22.01	22.24	22.16	23.00
5	16QAM	12	0	21.03	21.20	21.15	22.00
5	16QAM	12	7	21.09	21.19	21.10	22.00
5	16QAM	12	13	21.01	21.21	21.11	22.00
5	16QAM	25	0	21.08	21.23	21.09	22.00
5	64QAM	1	0	21.00	21.22	21.19	22.00
5	64QAM	1	12	21.04	21.16	21.11	22.00
5	64QAM	1	24	21.00	21.18	21.15	22.00
5	64QAM	12	0	20.11	20.16	20.17	21.00
5	64QAM	12	7	20.10	20.13	20.18	21.00
5	64QAM	12	13	20.08	20.15	20.13	21.00
5	64QAM	25	0	20.10	20.24	20.20	21.00

【LTE Band 12】

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	23.11	23.25	23.17	24.00
10	QPSK	1	25	23.06	23.21	23.44	24.00
10	QPSK	1	49	22.71	22.92	23.20	24.00
10	QPSK	25	0	22.28	22.35	22.31	23.00
10	QPSK	25	12	21.87	22.00	22.19	23.00
10	QPSK	25	25	21.80	21.94	22.13	23.00
10	QPSK	50	0	21.81	22.02	22.22	23.00
10	16QAM	1	0	21.65	21.78	22.04	23.00
10	16QAM	1	25	21.96	22.06	22.36	23.00
10	16QAM	1	49	21.60	21.77	21.97	23.00
10	16QAM	25	0	20.84	20.97	21.23	22.00
10	16QAM	25	12	20.77	20.92	21.16	22.00
10	16QAM	25	25	20.68	20.78	21.06	22.00



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10	16QAM	50	0	20.82	20.93	21.13	22.00
10	64QAM	1	0	20.86	21.00	21.15	22.00
10	64QAM	1	25	20.87	21.04	21.26	22.00
10	64QAM	1	49	20.80	21.01	21.19	22.00
10	64QAM	25	0	19.91	20.04	20.19	21.00
10	64QAM	25	12	20.02	20.15	20.30	21.00
10	64QAM	25	25	19.81	19.99	20.15	21.00
10	64QAM	50	0	19.93	20.05	20.26	21.00
Channel				23035	23095	23115	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.64	22.72	23.12	24.00
5	QPSK	1	12	23.03	23.12	23.42	24.00
5	QPSK	1	24	22.68	22.80	23.12	24.00
5	QPSK	12	0	21.86	21.98	22.16	23.00
5	QPSK	12	7	21.77	21.98	22.09	23.00
5	QPSK	12	13	21.72	21.82	22.04	23.00
5	QPSK	25	0	21.69	21.96	22.13	23.00
5	16QAM	1	0	21.59	21.66	21.96	23.00
5	16QAM	1	12	21.94	22.01	22.27	23.00
5	16QAM	1	24	21.56	21.72	21.85	23.00
5	16QAM	12	0	20.82	20.90	21.21	22.00
5	16QAM	12	7	20.65	20.79	21.06	22.00
5	16QAM	12	13	20.64	20.74	20.94	22.00
5	16QAM	25	0	20.73	20.83	20.99	22.00
5	64QAM	1	0	20.77	20.89	21.00	22.00
5	64QAM	1	12	20.85	20.92	21.20	22.00
5	64QAM	1	24	20.67	20.92	21.09	22.00
5	64QAM	12	0	19.78	19.95	20.10	21.00
5	64QAM	12	7	19.89	20.06	20.23	21.00
5	64QAM	12	13	19.71	19.93	20.01	21.00
5	64QAM	25	0	19.85	20.03	20.19	21.00
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.71	22.75	23.06	24.00
3	QPSK	1	8	22.98	23.19	23.29	24.00
3	QPSK	1	14	22.58	22.91	23.18	24.00
3	QPSK	8	0	21.79	22.00	22.20	23.00
3	QPSK	8	4	21.74	21.90	22.11	23.00
3	QPSK	8	7	21.71	21.85	22.09	23.00
3	QPSK	15	0	21.71	21.99	22.21	23.00
3	16QAM	1	0	21.63	21.76	21.97	23.00
3	16QAM	1	8	21.88	21.94	22.34	23.00
3	16QAM	1	14	21.51	21.68	21.83	23.00
3	16QAM	8	0	20.71	20.88	21.18	22.00
3	16QAM	8	4	20.67	20.90	21.02	22.00
3	16QAM	8	7	20.54	20.76	21.00	22.00
3	16QAM	15	0	20.80	20.82	21.04	22.00
3	64QAM	1	0	20.80	20.95	21.00	22.00
3	64QAM	1	8	20.82	20.95	21.14	22.00
3	64QAM	1	14	20.75	20.93	21.05	22.00
3	64QAM	8	0	19.89	20.01	20.12	21.00
3	64QAM	8	4	19.95	20.05	20.27	21.00
3	64QAM	8	7	19.72	19.87	20.07	21.00
3	64QAM	15	0	19.85	19.97	20.18	21.00
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.71	22.83	23.11	24.00
1.4	QPSK	1	3	22.92	23.16	23.41	24.00
1.4	QPSK	1	5	22.60	22.84	23.08	24.00
1.4	QPSK	3	0	22.79	22.94	23.20	24.00
1.4	QPSK	3	1	22.72	22.98	23.06	24.00
1.4	QPSK	3	3	22.74	22.92	23.04	24.00
1.4	QPSK	6	0	21.69	21.96	22.08	23.00
1.4	16QAM	1	0	21.61	21.69	21.94	23.00
1.4	16QAM	1	3	21.93	21.96	22.31	23.00
1.4	16QAM	1	5	21.54	21.71	21.88	23.00
1.4	16QAM	3	0	21.75	21.83	22.22	23.00
1.4	16QAM	3	1	21.72	21.80	22.13	23.00
1.4	16QAM	3	3	21.57	21.70	21.93	23.00
1.4	16QAM	6	0	20.72	20.84	21.02	22.00
1.4	64QAM	1	0	20.74	20.91	21.08	22.00
1.4	64QAM	1	3	20.85	20.92	21.20	22.00
1.4	64QAM	1	5	20.73	20.88	21.05	22.00
1.4	64QAM	3	0	20.79	20.91	21.14	22.00

1.4	64QAM	3	1	20.93	21.03	21.22	22.00
1.4	64QAM	3	3	20.77	20.90	21.04	22.00
1.4	64QAM	6	0	19.82	20.03	20.17	21.00

【LTE Band 13】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					782		
10	QPSK	1	0		23.26		24.00
10	QPSK	1	25		23.24		24.00
10	QPSK	1	49		23.22		24.00
10	QPSK	25	0		22.41		23.00
10	QPSK	25	12		22.38		23.00
10	QPSK	25	25		22.32		23.00
10	QPSK	50	0		22.29		23.00
10	16QAM	1	0		22.43		23.00
10	16QAM	1	25		22.62		23.00
10	16QAM	1	49		22.14		23.00
10	16QAM	25	0		21.33		22.00
10	16QAM	25	12		21.42		22.00
10	16QAM	25	25		21.37		22.00
10	16QAM	50	0		21.24		22.00
10	64QAM	1	0		21.04		22.00
10	64QAM	1	25		21.02		22.00
10	64QAM	1	49		21.02		22.00
10	64QAM	25	0		20.34		21.00
10	64QAM	25	12		20.35		21.00
10	64QAM	25	25		20.15		21.00
10	64QAM	50	0		20.23		21.00
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.11	23.21	23.14	24.00
5	QPSK	1	12	23.04	23.14	23.13	24.00
5	QPSK	1	24	23.18	23.22	23.21	24.00
5	QPSK	12	0	22.11	22.31	22.31	23.00
5	QPSK	12	7	22.29	22.38	22.34	23.00
5	QPSK	12	13	22.20	22.32	22.15	23.00
5	QPSK	25	0	22.21	22.29	22.21	23.00
5	16QAM	1	0	22.25	22.43	22.41	23.00
5	16QAM	1	12	22.45	22.62	22.58	23.00
5	16QAM	1	24	22.19	22.14	22.13	23.00
5	16QAM	12	0	21.31	21.33	21.31	22.00
5	16QAM	12	7	21.38	21.42	21.40	22.00
5	16QAM	12	13	21.35	21.37	21.31	22.00
5	16QAM	25	0	21.21	21.24	21.29	22.00
5	64QAM	1	0	21.15	21.14	21.14	22.00
5	64QAM	1	12	21.19	21.12	21.13	22.00
5	64QAM	1	24	21.14	21.12	21.17	22.00
5	64QAM	12	0	20.31	20.34	20.31	21.00
5	64QAM	12	7	20.34	20.35	20.34	21.00
5	64QAM	12	13	20.13	20.15	20.11	21.00
5	64QAM	25	0	20.21	20.23	20.19	21.00

【LTE Band 14】

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		23.19		24.00
10	QPSK	1	25		23.18		24.00
10	QPSK	1	49		22.75		24.00
10	QPSK	25	0		22.11		23.00
10	QPSK	25	12		22.03		23.00
10	QPSK	25	25		21.97		23.00
10	QPSK	50	0		22.06		23.00
10	16QAM	1	0		21.87		23.00
10	16QAM	1	25		21.89		23.00
10	16QAM	1	49		21.78		23.00
10	16QAM	25	0		21.24		22.00
10	16QAM	25	12		21.11		22.00
10	16QAM	25	25		21.06		22.00
10	16QAM	50	0		21.07		22.00
10	64QAM	1	0		21.08		22.00
10	64QAM	1	25		21.03		22.00
10	64QAM	1	49		21.09		22.00
10	64QAM	25	0		20.11		21.00
10	64QAM	25	12		19.99		21.00
10	64QAM	25	25		20.06		21.00
10	64QAM	50	0		20.04		21.00
Channel				23305	23330	23355	
Frequency (MHz)				790.5	793	795.5	Tune-up limit (dBm)
5	QPSK	1	0	22.90	22.95	22.94	24.00
5	QPSK	1	12	23.03	23.10	23.12	24.00
5	QPSK	1	24	22.62	22.69	22.61	24.00
5	QPSK	12	0	22.03	22.03	22.05	23.00
5	QPSK	12	7	21.94	21.92	21.94	23.00
5	QPSK	12	13	21.84	21.84	21.89	23.00
5	QPSK	25	0	21.96	21.96	21.99	23.00
5	16QAM	1	0	21.80	21.79	21.77	23.00
5	16QAM	1	12	21.76	21.75	21.84	23.00
5	16QAM	1	24	21.66	21.69	21.69	23.00
5	16QAM	12	0	21.14	21.18	21.16	22.00
5	16QAM	12	7	21.04	20.98	21.01	22.00
5	16QAM	12	13	20.97	20.94	21.00	22.00
5	16QAM	25	0	20.92	20.93	20.96	22.00
5	64QAM	1	0	21.08	21.03	21.02	22.00
5	64QAM	1	12	21.03	21.07	21.03	22.00
5	64QAM	1	24	21.05	21.02	21.13	22.00
5	64QAM	12	0	20.02	20.03	20.01	21.00
5	64QAM	12	7	19.84	19.91	19.91	21.00
5	64QAM	12	13	19.93	20.00	19.95	21.00
5	64QAM	25	0	19.98	19.90	19.93	21.00

【LTE Band 17】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.01	23.16	23.11	24.00
10	QPSK	1	25	23.16	23.15	23.25	24.00
10	QPSK	1	49	22.88	22.76	22.95	24.00
10	QPSK	25	0	22.18	22.19	22.20	23.00
10	QPSK	25	12	22.15	22.15	22.36	23.00
10	QPSK	25	25	22.22	22.11	22.25	23.00
10	QPSK	50	0	22.07	22.08	22.30	23.00
10	16QAM	1	0	22.18	22.13	22.25	23.00
10	16QAM	1	25	22.31	22.29	22.39	23.00
10	16QAM	1	49	21.82	21.82	21.96	23.00
10	16QAM	25	0	21.12	21.09	21.21	22.00
10	16QAM	25	12	21.27	21.18	21.26	22.00
10	16QAM	25	25	20.95	20.92	21.01	22.00
10	16QAM	50	0	20.98	20.97	21.06	22.00
10	64QAM	1	0	21.14	21.03	21.23	22.00
10	64QAM	1	25	21.09	21.01	21.14	22.00
10	64QAM	1	49	21.11	21.09	21.21	22.00
10	64QAM	25	0	20.12	20.09	20.26	21.00
10	64QAM	25	12	20.17	20.08	20.16	21.00
10	64QAM	25	25	20.05	20.07	20.24	21.00
10	64QAM	50	0	20.07	20.02	20.17	21.00
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.91	22.82	23.07	24.00
5	QPSK	1	12	23.11	23.02	23.16	24.00
5	QPSK	1	24	22.81	22.64	22.90	24.00
5	QPSK	12	0	22.15	21.95	22.17	23.00
5	QPSK	12	7	22.05	22.14	22.34	23.00
5	QPSK	12	13	22.15	22.08	22.22	23.00
5	QPSK	25	0	21.96	22.01	22.18	23.00
5	16QAM	1	0	22.05	21.99	22.20	23.00
5	16QAM	1	12	22.19	22.15	22.32	23.00
5	16QAM	1	24	21.77	21.79	21.87	23.00
5	16QAM	12	0	21.01	20.95	21.18	22.00
5	16QAM	12	7	21.17	21.09	21.15	22.00
5	16QAM	12	13	20.90	20.81	20.88	22.00
5	16QAM	25	0	20.94	20.90	21.04	22.00
5	64QAM	1	0	21.09	20.92	21.15	22.00
5	64QAM	1	12	20.94	20.95	21.00	22.00
5	64QAM	1	24	21.06	20.97	21.07	22.00
5	64QAM	12	0	20.09	19.96	20.12	21.00
5	64QAM	12	7	20.10	19.97	20.05	21.00
5	64QAM	12	13	20.03	19.99	20.09	21.00
5	64QAM	25	0	20.00	19.88	20.12	21.00

【LTE Band 25】

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	23.28	23.35	23.34	24.00
20	QPSK	1	49	23.28	23.22	23.31	24.00
20	QPSK	1	99	23.03	23.04	23.06	24.00
20	QPSK	50	0	22.33	22.45	22.41	23.00
20	QPSK	50	24	22.26	22.32	22.35	23.00
20	QPSK	50	50	22.31	22.31	22.35	23.00
20	QPSK	100	0	22.37	22.31	22.44	23.00
20	16QAM	1	0	21.75	21.78	21.90	23.00
20	16QAM	1	49	21.84	21.82	21.93	23.00
20	16QAM	1	99	21.95	21.88	21.90	23.00
20	16QAM	50	0	21.41	21.34	21.47	22.00
20	16QAM	50	24	21.40	21.36	21.38	22.00
20	16QAM	50	50	21.31	21.25	21.36	22.00
20	16QAM	100	0	21.21	21.24	21.24	22.00
20	64QAM	1	0	21.49	21.54	21.56	22.00
20	64QAM	1	49	21.64	21.67	21.75	22.00
20	64QAM	1	99	21.71	21.69	21.80	22.00
20	64QAM	50	0	20.17	20.23	20.31	21.00
20	64QAM	50	24	20.30	20.35	20.36	21.00
20	64QAM	50	50	20.47	20.45	20.50	21.00
20	64QAM	100	0	20.27	20.30	20.34	21.00
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	23.23	23.22	23.32	24.00
15	QPSK	1	37	23.19	23.14	23.23	24.00
15	QPSK	1	74	22.91	22.91	22.94	24.00
15	QPSK	36	0	22.28	22.43	22.33	23.00
15	QPSK	36	20	22.22	22.30	22.21	23.00
15	QPSK	36	39	22.20	22.28	22.21	23.00
15	QPSK	75	0	22.31	22.26	22.39	23.00
15	16QAM	1	0	21.72	21.64	21.86	23.00
15	16QAM	1	37	21.81	21.71	21.78	23.00
15	16QAM	1	74	21.87	21.78	21.84	23.00
15	16QAM	36	0	21.32	21.27	21.43	22.00
15	16QAM	36	20	21.30	21.34	21.35	22.00
15	16QAM	36	39	21.21	21.11	21.32	22.00
15	16QAM	75	0	21.14	21.19	21.13	22.00
15	64QAM	1	0	21.39	21.41	21.42	22.00
15	64QAM	1	37	21.60	21.64	21.72	22.00
15	64QAM	1	74	21.63	21.62	21.68	22.00
15	64QAM	36	0	20.07	20.16	20.21	21.00
15	64QAM	36	20	20.18	20.26	20.22	21.00
15	64QAM	36	39	20.42	20.32	20.37	21.00
15	64QAM	75	0	20.19	20.20	20.31	21.00
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	23.17	23.26	23.23	24.00
10	QPSK	1	25	23.14	23.14	23.18	24.00
10	QPSK	1	49	22.96	22.90	22.92	24.00
10	QPSK	25	0	22.18	22.32	22.37	23.00
10	QPSK	25	12	22.12	22.19	22.28	23.00
10	QPSK	25	25	22.29	22.20	22.22	23.00
10	QPSK	50	0	22.25	22.18	22.37	23.00
10	16QAM	1	0	21.70	21.72	21.88	23.00
10	16QAM	1	25	21.73	21.80	21.86	23.00
10	16QAM	1	49	21.86	21.84	21.78	23.00
10	16QAM	25	0	21.34	21.27	21.33	22.00
10	16QAM	25	12	21.31	21.28	21.28	22.00
10	16QAM	25	25	21.22	21.23	21.25	22.00
10	16QAM	50	0	21.11	21.21	21.23	22.00
10	64QAM	1	0	21.45	21.52	21.53	22.00
10	64QAM	1	25	21.62	21.59	21.74	22.00
10	64QAM	1	49	21.64	21.67	21.77	22.00
10	64QAM	25	0	20.04	20.21	20.25	21.00
10	64QAM	25	12	20.23	20.34	20.22	21.00
10	64QAM	25	25	20.33	20.37	20.48	21.00
10	64QAM	50	0	20.19	20.27	20.19	21.00



Channel				26065	26340	26665	Tune-up limit
Frequency (MHz)				1852.5	1880	1912.5	(dBm)
5	QPSK	1	0	23.19	23.33	23.29	24.00
5	QPSK	1	12	23.20	23.21	23.20	24.00
5	QPSK	1	24	22.91	22.89	22.95	24.00
5	QPSK	12	0	22.25	22.44	22.32	23.00
5	QPSK	12	7	22.20	22.23	22.27	23.00
5	QPSK	12	13	22.29	22.27	22.28	23.00
5	QPSK	25	0	22.30	22.24	22.40	23.00
5	16QAM	1	0	21.72	21.65	21.78	23.00
5	16QAM	1	12	21.83	21.68	21.88	23.00
5	16QAM	1	24	21.81	21.84	21.76	23.00
5	16QAM	12	0	21.32	21.23	21.38	22.00
5	16QAM	12	7	21.30	21.34	21.30	22.00
5	16QAM	12	13	21.25	21.15	21.25	22.00
5	16QAM	25	0	21.15	21.10	21.20	22.00
5	64QAM	1	0	21.42	21.45	21.48	22.00
5	64QAM	1	12	21.57	21.52	21.61	22.00
5	64QAM	1	24	21.67	21.68	21.70	22.00
5	64QAM	12	0	20.11	20.16	20.18	21.00
5	64QAM	12	7	20.27	20.21	20.22	21.00
5	64QAM	12	13	20.42	20.35	20.38	21.00
5	64QAM	25	0	20.23	20.27	20.21	21.00
Channel				26055	26340	26675	Tune-up limit
Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	23.26	23.22	23.30	24.00
3	QPSK	1	8	23.27	23.13	23.21	24.00
3	QPSK	1	14	23.00	22.91	22.94	24.00
3	QPSK	8	0	22.31	22.44	22.37	23.00
3	QPSK	8	4	22.12	22.23	22.28	23.00
3	QPSK	8	7	22.28	22.16	22.22	23.00
3	QPSK	15	0	22.30	22.17	22.34	23.00
3	16QAM	1	0	21.72	21.67	21.79	23.00
3	16QAM	1	8	21.73	21.77	21.84	23.00
3	16QAM	1	14	21.91	21.75	21.87	23.00
3	16QAM	8	0	21.32	21.23	21.41	22.00
3	16QAM	8	4	21.28	21.27	21.32	22.00
3	16QAM	8	7	21.27	21.23	21.31	22.00
3	16QAM	15	0	21.07	21.12	21.14	22.00
3	64QAM	1	0	21.45	21.44	21.47	22.00
3	64QAM	1	8	21.62	21.64	21.63	22.00
3	64QAM	1	14	21.70	21.68	21.69	22.00
3	64QAM	8	0	20.02	20.16	20.17	21.00
3	64QAM	8	4	20.18	20.30	20.28	21.00
3	64QAM	8	7	20.34	20.40	20.42	21.00
3	64QAM	15	0	20.23	20.26	20.29	21.00
Channel				26047	26340	26683	Tune-up limit
Frequency (MHz)				1850.7	1880	1914.3	(dBm)
1.4	QPSK	1	0	23.19	23.28	23.19	24.00
1.4	QPSK	1	3	23.25	23.13	23.25	24.00
1.4	QPSK	1	5	22.89	22.91	23.01	24.00
1.4	QPSK	3	0	23.24	23.32	23.28	24.00
1.4	QPSK	3	1	23.13	23.26	23.20	24.00
1.4	QPSK	3	3	23.27	23.22	23.22	24.00
1.4	QPSK	6	0	22.29	22.26	22.29	23.00
1.4	16QAM	1	0	21.72	21.65	21.86	23.00
1.4	16QAM	1	3	21.77	21.70	21.81	23.00
1.4	16QAM	1	5	21.82	21.80	21.87	23.00
1.4	16QAM	3	0	22.27	22.26	22.34	23.00
1.4	16QAM	3	1	22.31	22.25	22.27	23.00
1.4	16QAM	3	3	22.22	22.18	22.25	23.00
1.4	16QAM	6	0	21.14	21.10	21.22	22.00
1.4	64QAM	1	0	21.41	21.51	21.45	22.00
1.4	64QAM	1	3	21.51	21.62	21.72	22.00
1.4	64QAM	1	5	21.61	21.55	21.65	22.00
1.4	64QAM	3	0	21.13	21.14	21.22	22.00
1.4	64QAM	3	1	21.20	21.24	21.34	22.00
1.4	64QAM	3	3	21.34	21.42	21.35	22.00
1.4	64QAM	6	0	20.18	20.26	20.23	21.00

【LTE Band 26_FCC (814~849MHz)】

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	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.17	23.22	23.21	24.00
15	QPSK	1	37	23.06	23.15	23.20	24.00
15	QPSK	1	74	23.17	23.20	23.19	24.00
15	QPSK	36	0	22.08	22.35	22.21	23.00
15	QPSK	36	20	22.18	22.22	22.29	23.00
15	QPSK	36	39	22.23	22.33	22.34	23.00
15	QPSK	75	0	22.12	22.19	22.20	23.00
15	16QAM	1	0	22.31	22.33	22.45	23.00
15	16QAM	1	37	22.18	22.19	22.28	23.00
15	16QAM	1	74	21.90	21.97	22.05	23.00
15	16QAM	36	0	20.91	20.99	21.01	22.00
15	16QAM	36	20	21.17	21.14	21.25	22.00
15	16QAM	36	39	21.21	21.21	21.28	22.00
15	16QAM	75	0	21.17	21.24	21.32	22.00
15	64QAM	1	0	20.62	20.71	20.75	22.00
15	64QAM	1	37	20.07	20.14	20.22	22.00
15	64QAM	1	74	20.81	20.82	20.90	22.00
15	64QAM	36	0	20.06	20.12	20.09	21.00
15	64QAM	36	20	19.93	20.02	20.02	21.00
15	64QAM	36	39	20.05	20.10	20.13	21.00
15	64QAM	75	0	20.21	20.28	20.33	21.00
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.15	23.11	23.15	24.00
10	QPSK	1	25	22.93	23.10	23.07	24.00
10	QPSK	1	49	23.07	23.07	23.14	24.00
10	QPSK	25	0	21.95	22.11	22.14	23.00
10	QPSK	25	12	22.16	22.14	22.28	23.00
10	QPSK	25	25	22.17	22.19	22.22	23.00
10	QPSK	50	0	22.00	22.08	22.16	23.00
10	16QAM	1	0	22.21	22.22	22.36	23.00
10	16QAM	1	25	22.16	22.12	22.17	23.00
10	16QAM	1	49	21.88	21.83	21.95	23.00
10	16QAM	25	0	20.83	20.97	20.93	22.00
10	16QAM	25	12	21.15	21.08	21.10	22.00
10	16QAM	25	25	21.09	21.17	21.23	22.00
10	16QAM	50	0	21.03	21.13	21.19	22.00
10	64QAM	1	0	20.48	20.64	20.67	22.00
10	64QAM	1	25	20.00	20.12	20.20	22.00
10	64QAM	1	49	20.73	20.75	20.89	22.00
10	64QAM	25	0	20.02	20.04	20.01	21.00
10	64QAM	25	12	19.81	19.89	19.88	21.00
10	64QAM	25	25	20.01	20.00	20.10	21.00
10	64QAM	50	0	20.12	20.14	20.29	21.00
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.15	23.03	23.21	24.00
5	QPSK	1	12	22.94	23.11	23.06	24.00
5	QPSK	1	24	23.08	23.09	23.15	24.00
5	QPSK	12	0	21.99	22.09	22.19	23.00
5	QPSK	12	7	22.15	22.15	22.16	23.00
5	QPSK	12	13	22.08	22.27	22.31	23.00
5	QPSK	25	0	22.01	22.09	22.17	23.00
5	16QAM	1	0	22.29	22.20	22.40	23.00
5	16QAM	1	12	22.04	22.05	22.25	23.00
5	16QAM	1	24	21.78	21.94	22.03	23.00
5	16QAM	12	0	20.85	20.95	20.92	22.00
5	16QAM	12	7	21.05	21.12	21.11	22.00
5	16QAM	12	13	21.06	21.20	21.19	22.00
5	16QAM	25	0	21.11	21.20	21.23	22.00
5	64QAM	1	0	20.58	20.69	20.68	22.00
5	64QAM	1	12	20.02	20.10	20.18	22.00
5	64QAM	1	24	20.75	20.71	20.88	22.00
5	64QAM	12	0	20.00	20.07	20.05	21.00
5	64QAM	12	7	19.86	19.92	20.00	21.00
5	64QAM	12	13	20.00	20.03	20.09	21.00
5	64QAM	25	0	20.15	20.15	20.30	21.00
Channel				26705	26865	27025	Tune-up limit

Frequency (MHz)				815.5	831.5	847.5	(dBm)
3	QPSK	1	0	23.05	23.06	23.17	24.00
3	QPSK	1	8	22.92	23.09	23.14	24.00
3	QPSK	1	14	23.11	23.13	23.09	24.00
3	QPSK	8	0	22.00	22.10	22.19	23.00
3	QPSK	8	4	22.06	22.15	22.22	23.00
3	QPSK	8	7	22.17	22.25	22.22	23.00
3	QPSK	15	0	22.01	22.10	22.10	23.00
3	16QAM	1	0	22.21	22.31	22.39	23.00
3	16QAM	1	8	22.13	22.08	22.16	23.00
3	16QAM	1	14	21.77	21.88	21.92	23.00
3	16QAM	8	0	20.88	20.90	20.94	22.00
3	16QAM	8	4	21.03	21.02	21.19	22.00
3	16QAM	8	7	21.06	21.09	21.23	22.00
3	16QAM	15	0	21.14	21.17	21.25	22.00
3	64QAM	1	0	20.54	20.67	20.66	22.00
3	64QAM	1	8	20.01	20.05	20.16	22.00
3	64QAM	1	14	20.76	20.70	20.83	22.00
3	64QAM	8	0	19.94	20.01	19.96	21.00
3	64QAM	8	4	19.89	19.98	19.88	21.00
3	64QAM	8	7	19.95	20.01	20.00	21.00
3	64QAM	15	0	20.20	20.16	20.31	21.00
Channel				26697	26865	27033	Tune-up limit
Frequency (MHz)				814.7	831.5	848.3	(dBm)
1.4	QPSK	1	0	23.15	23.08	23.17	24.00
1.4	QPSK	1	3	22.92	23.06	23.16	24.00
1.4	QPSK	1	5	23.12	23.09	23.09	24.00
1.4	QPSK	3	0	22.98	23.09	23.19	24.00
1.4	QPSK	3	1	23.04	23.13	23.24	24.00
1.4	QPSK	3	3	23.10	23.19	23.22	24.00
1.4	QPSK	6	0	22.00	22.11	22.07	23.00
1.4	16QAM	1	0	22.26	22.18	22.41	23.00
1.4	16QAM	1	3	22.13	22.15	22.23	23.00
1.4	16QAM	1	5	21.85	21.95	21.92	23.00
1.4	16QAM	3	0	21.88	21.96	21.97	23.00
1.4	16QAM	3	1	22.13	22.03	22.15	23.00
1.4	16QAM	3	3	22.09	22.12	22.22	23.00
1.4	16QAM	6	0	21.14	21.11	21.30	22.00
1.4	64QAM	1	0	20.50	20.57	20.72	22.00
1.4	64QAM	1	3	20.06	20.13	20.15	22.00
1.4	64QAM	1	5	20.73	20.80	20.82	22.00
1.4	64QAM	3	0	20.93	20.99	21.03	22.00
1.4	64QAM	3	1	20.87	21.00	20.99	22.00
1.4	64QAM	3	3	20.95	20.99	21.03	22.00
1.4	64QAM	6	0	20.10	20.23	20.19	21.00

【LTE Band 41_FCC (2496~2690MHz)】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	24.00
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.88	23.09	23.31	22.88	23.10	24.00
20	QPSK	1	49	22.94	23.12	23.21	22.91	23.15	24.00
20	QPSK	1	99	22.47	22.66	22.81	22.42	22.64	24.00
20	QPSK	50	0	21.88	22.10	22.25	21.95	22.18	23.00
20	QPSK	50	24	21.81	21.97	22.16	21.89	22.09	23.00
20	QPSK	50	50	21.80	22.04	22.11	21.76	21.93	23.00
20	QPSK	100	0	21.84	22.05	22.20	21.91	22.04	23.00
20	16QAM	1	0	21.35	21.61	21.72	21.41	21.62	23.00
20	16QAM	1	49	21.51	21.75	21.86	21.53	21.72	23.00
20	16QAM	1	99	21.10	21.28	21.43	21.10	21.32	23.00
20	16QAM	50	0	20.82	21.03	21.18	20.86	21.06	22.00
20	16QAM	50	24	20.86	21.06	21.15	20.80	21.01	22.00
20	16QAM	50	50	20.78	20.92	21.09	20.84	20.93	22.00
20	16QAM	100	0	20.88	21.10	21.19	20.87	21.06	22.00
20	64QAM	1	0	21.20	21.36	21.47	21.17	21.34	22.00
20	64QAM	1	49	21.08	21.36	21.42	21.09	21.35	22.00
20	64QAM	1	99	20.84	20.92	21.12	20.76	20.94	22.00
20	64QAM	50	0	19.95	20.10	20.21	19.86	20.06	21.00
20	64QAM	50	24	19.81	20.09	20.16	19.88	20.09	21.00
20	64QAM	50	50	19.69	19.99	20.05	19.72	19.95	21.00
20	64QAM	100	0	19.88	19.99	20.12	19.75	19.96	21.00
Channel				39725	40173	40620	41068	41515	24.00
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.85	23.01	23.04	22.87	23.05	24.00
15	QPSK	1	37	22.85	23.04	23.18	22.89	23.12	24.00
15	QPSK	1	74	22.40	22.61	22.78	22.40	22.51	24.00
15	QPSK	36	0	21.85	21.99	22.23	21.82	22.15	23.00
15	QPSK	36	20	21.74	21.88	22.02	21.78	22.07	23.00
15	QPSK	36	39	21.66	21.97	21.97	21.64	21.85	23.00
15	QPSK	75	0	21.78	22.01	22.08	21.82	21.98	23.00
15	16QAM	1	0	21.31	21.60	21.67	21.28	21.51	23.00
15	16QAM	1	37	21.50	21.64	21.81	21.51	21.71	23.00
15	16QAM	1	74	21.08	21.13	21.32	21.02	21.19	23.00
15	16QAM	36	0	20.80	21.01	21.07	20.72	20.92	22.00
15	16QAM	36	20	20.78	20.92	21.07	20.68	20.99	22.00
15	16QAM	36	39	20.63	20.90	21.06	20.76	20.80	22.00
15	16QAM	75	0	20.87	20.95	21.08	20.82	20.95	22.00
15	64QAM	1	0	21.11	21.32	21.32	21.05	21.30	22.00
15	64QAM	1	37	21.03	21.31	21.39	20.98	21.27	22.00
15	64QAM	1	74	20.81	20.81	21.11	20.69	20.88	22.00
15	64QAM	36	0	19.89	19.98	20.17	19.79	19.92	21.00
15	64QAM	36	20	19.75	20.04	20.01	19.74	20.05	21.00
15	64QAM	36	39	19.54	19.91	20.02	19.69	19.91	21.00
15	64QAM	75	0	19.84	19.98	20.10	19.65	19.84	21.00
Channel				39700	40160	40620	41080	41540	24.00
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.86	22.96	23.13	22.82	22.99	24.00
10	QPSK	1	25	22.86	22.98	23.26	22.85	23.03	24.00
10	QPSK	1	49	22.42	22.53	22.73	22.28	22.53	24.00
10	QPSK	25	0	21.77	22.04	22.17	21.81	22.06	23.00
10	QPSK	25	12	21.74	21.90	22.05	21.83	22.01	23.00
10	QPSK	25	25	21.77	22.02	21.97	21.74	21.80	23.00
10	QPSK	50	0	21.76	22.02	22.05	21.79	21.95	23.00
10	16QAM	1	0	21.22	21.50	21.70	21.36	21.49	23.00
10	16QAM	1	25	21.42	21.65	21.74	21.48	21.57	23.00
10	16QAM	1	49	21.00	21.24	21.31	21.02	21.21	23.00
10	16QAM	25	0	20.80	20.92	21.07	20.74	20.96	22.00
10	16QAM	25	12	20.85	21.03	21.04	20.78	20.91	22.00
10	16QAM	25	25	20.71	20.85	21.03	20.80	20.88	22.00
10	16QAM	50	0	20.83	21.06	21.16	20.75	21.05	22.00
10	64QAM	1	0	21.06	21.31	21.43	21.09	21.25	22.00
10	64QAM	1	25	21.00	21.21	21.31	21.07	21.22	22.00
10	64QAM	1	49	20.81	20.89	21.05	20.64	20.80	22.00
10	64QAM	25	0	19.86	20.03	20.11	19.79	20.04	21.00
10	64QAM	25	12	19.74	19.97	20.13	19.77	20.02	21.00

10	64QAM	25	25	19.62	19.88	19.90	19.63	19.89	21.00
10	64QAM	50	0	19.83	19.84	19.99	19.70	19.87	21.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.79	22.95	23.09	22.83	23.05	24.00
5	QPSK	1	12	22.87	23.10	23.18	22.79	23.11	24.00
5	QPSK	1	24	22.43	22.58	22.66	22.27	22.52	24.00
5	QPSK	12	0	21.79	22.02	22.18	21.88	22.08	23.00
5	QPSK	12	7	21.75	21.84	22.09	21.74	21.99	23.00
5	QPSK	12	13	21.78	21.97	22.03	21.70	21.88	23.00
5	QPSK	25	0	21.82	22.01	22.18	21.77	22.01	23.00
5	16QAM	1	0	21.23	21.49	21.62	21.28	21.56	23.00
5	16QAM	1	12	21.46	21.66	21.74	21.48	21.63	23.00
5	16QAM	1	24	21.08	21.19	21.36	21.01	21.27	23.00
5	16QAM	12	0	20.72	21.00	21.12	20.76	20.98	22.00
5	16QAM	12	7	20.74	20.98	21.13	20.75	20.99	22.00
5	16QAM	12	13	20.69	20.84	20.97	20.83	20.85	22.00
5	16QAM	25	0	20.87	21.04	21.06	20.79	21.01	22.00
5	64QAM	1	0	21.13	21.30	21.37	21.06	21.22	22.00
5	64QAM	1	12	21.00	21.22	21.28	20.99	21.31	22.00
5	64QAM	1	24	20.71	20.89	20.99	20.71	20.90	22.00
5	64QAM	12	0	19.81	19.99	20.07	19.83	20.04	21.00
5	64QAM	12	7	19.75	20.03	20.04	19.84	20.00	21.00
5	64QAM	12	13	19.55	19.94	19.92	19.61	19.90	21.00
5	64QAM	25	0	19.82	19.92	19.99	19.61	19.86	21.00

【LTE Band 66】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.34	23.47	23.41	24.00
20	QPSK	1	49	23.07	23.33	22.90	24.00
20	QPSK	1	99	23.10	23.31	22.87	24.00
20	QPSK	50	0	22.24	22.39	22.31	23.00
20	QPSK	50	24	21.86	22.13	21.78	23.00
20	QPSK	50	50	21.96	22.19	21.83	23.00
20	QPSK	100	0	22.02	22.28	21.83	23.00
20	16QAM	1	0	22.10	22.25	21.90	23.00
20	16QAM	1	49	21.86	22.05	21.58	23.00
20	16QAM	1	99	21.91	22.16	21.82	23.00
20	16QAM	50	0	21.13	21.31	20.98	22.00
20	16QAM	50	24	20.85	21.11	20.74	22.00
20	16QAM	50	50	20.82	21.07	20.74	22.00
20	16QAM	100	0	20.85	21.08	20.65	22.00
20	64QAM	1	0	20.91	21.09	20.69	22.00
20	64QAM	1	49	20.86	21.05	20.71	22.00
20	64QAM	1	99	20.90	21.06	20.67	22.00
20	64QAM	50	0	19.89	20.08	19.70	21.00
20	64QAM	50	24	19.83	20.07	19.76	21.00
20	64QAM	50	50	20.07	20.19	19.81	21.00
20	64QAM	100	0	19.95	20.12	19.68	21.00
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.30	23.37	23.10	24.00
15	QPSK	1	37	22.99	23.19	22.85	24.00
15	QPSK	1	74	23.08	23.23	22.78	24.00
15	QPSK	36	0	22.17	22.26	21.91	23.00
15	QPSK	36	20	21.73	22.04	21.74	23.00
15	QPSK	36	39	21.88	22.07	21.73	23.00
15	QPSK	75	0	21.87	22.24	21.72	23.00
15	16QAM	1	0	22.04	22.17	21.80	23.00
15	16QAM	1	37	21.83	21.91	21.54	23.00
15	16QAM	1	74	21.82	22.08	21.74	23.00
15	16QAM	36	0	21.02	21.26	20.85	22.00
15	16QAM	36	20	20.83	21.02	20.64	22.00
15	16QAM	36	39	20.75	20.99	20.69	22.00
15	16QAM	75	0	20.82	20.98	20.55	22.00



15	64QAM	1	0	20.86	21.03	20.54	22.00
15	64QAM	1	37	20.80	21.02	20.70	22.00
15	64QAM	1	74	20.87	20.92	20.62	22.00
15	64QAM	36	0	19.80	19.99	19.65	21.00
15	64QAM	36	20	19.80	19.96	19.72	21.00
15	64QAM	36	39	20.02	20.11	19.70	21.00
15	64QAM	75	0	19.80	20.09	19.61	21.00
Channel				132022	132322	132622	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	QPSK	1	0	23.25	23.38	23.00	24.00
10	QPSK	1	25	22.96	23.23	22.85	24.00
10	QPSK	1	49	23.05	23.16	22.79	24.00
10	QPSK	25	0	22.17	22.28	21.97	23.00
10	QPSK	25	12	21.78	22.12	21.63	23.00
10	QPSK	25	25	21.83	22.12	21.80	23.00
10	QPSK	50	0	21.91	22.22	21.74	23.00
10	16QAM	1	0	22.03	22.22	21.79	23.00
10	16QAM	1	25	21.82	21.91	21.46	23.00
10	16QAM	1	49	21.84	22.10	21.77	23.00
10	16QAM	25	0	20.99	21.25	20.94	22.00
10	16QAM	25	12	20.76	21.10	20.62	22.00
10	16QAM	25	25	20.74	20.95	20.61	22.00
10	16QAM	50	0	20.83	20.95	20.51	22.00
10	64QAM	1	0	20.86	21.06	20.55	22.00
10	64QAM	1	25	20.78	20.98	20.65	22.00
10	64QAM	1	49	20.78	21.01	20.60	22.00
10	64QAM	25	0	19.83	19.98	19.59	21.00
10	64QAM	25	12	19.81	19.95	19.73	21.00
10	64QAM	25	25	19.96	20.11	19.75	21.00
10	64QAM	50	0	19.81	20.07	19.61	21.00
Channel				131997	132322	132647	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	QPSK	1	0	23.20	23.33	23.03	24.00
5	QPSK	1	12	22.98	23.20	22.83	24.00
5	QPSK	1	24	22.98	23.21	22.85	24.00
5	QPSK	12	0	22.20	22.37	21.99	23.00
5	QPSK	12	7	21.81	22.05	21.71	23.00
5	QPSK	12	13	21.86	22.14	21.72	23.00
5	QPSK	25	0	21.92	22.24	21.76	23.00
5	16QAM	1	0	22.00	22.20	21.83	23.00
5	16QAM	1	12	21.75	22.02	21.51	23.00
5	16QAM	1	24	21.78	22.09	21.76	23.00
5	16QAM	12	0	20.98	21.25	20.94	22.00
5	16QAM	12	7	20.84	20.97	20.63	22.00
5	16QAM	12	13	20.76	20.99	20.63	22.00
5	16QAM	25	0	20.73	21.01	20.53	22.00
5	64QAM	1	0	20.84	20.94	20.56	22.00
5	64QAM	1	12	20.81	20.99	20.66	22.00
5	64QAM	1	24	20.76	21.00	20.65	22.00
5	64QAM	12	0	19.76	20.04	19.64	21.00
5	64QAM	12	7	19.80	19.96	19.72	21.00
5	64QAM	12	13	19.94	20.05	19.77	21.00
5	64QAM	25	0	19.85	20.02	19.59	21.00
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	23.32	23.39	23.02	24.00
3	QPSK	1	8	22.98	23.31	22.85	24.00
3	QPSK	1	14	23.06	23.18	22.73	24.00
3	QPSK	8	0	22.19	22.25	21.94	23.00
3	QPSK	8	4	21.71	22.08	21.66	23.00
3	QPSK	8	7	21.93	22.05	21.72	23.00
3	QPSK	15	0	21.90	22.25	21.72	23.00
3	16QAM	1	0	22.07	22.18	21.81	23.00
3	16QAM	1	8	21.76	21.93	21.55	23.00
3	16QAM	1	14	21.81	22.02	21.73	23.00
3	16QAM	8	0	21.06	21.23	20.92	22.00
3	16QAM	8	4	20.74	21.01	20.60	22.00
3	16QAM	8	7	20.70	20.93	20.67	22.00
3	16QAM	15	0	20.72	21.03	20.51	22.00
3	64QAM	1	0	20.78	21.02	20.62	22.00
3	64QAM	1	8	20.74	20.99	20.65	22.00
3	64QAM	1	14	20.88	21.03	20.59	22.00
3	64QAM	8	0	19.75	20.06	19.59	21.00
3	64QAM	8	4	19.73	20.02	19.67	21.00

3	64QAM	8	7	19.96	20.16	19.77	21.00
3	64QAM	15	0	19.86	20.03	19.58	21.00
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.22	23.35	23.09	24.00
1.4	QPSK	1	3	23.04	23.19	22.78	24.00
1.4	QPSK	1	5	22.98	23.23	22.84	24.00
1.4	QPSK	3	0	23.13	23.31	22.91	24.00
1.4	QPSK	3	1	22.74	23.04	22.75	24.00
1.4	QPSK	3	3	22.89	23.06	22.76	24.00
1.4	QPSK	6	0	22.00	22.19	21.70	23.00
1.4	16QAM	1	0	22.01	22.15	21.79	23.00
1.4	16QAM	1	3	21.76	21.99	21.53	23.00
1.4	16QAM	1	5	21.87	22.08	21.73	23.00
1.4	16QAM	3	0	22.08	22.22	21.85	23.00
1.4	16QAM	3	1	21.81	22.08	21.64	23.00
1.4	16QAM	3	3	21.75	22.02	21.71	23.00
1.4	16QAM	6	0	20.78	20.96	20.53	22.00
1.4	64QAM	1	0	20.88	20.94	20.58	22.00
1.4	64QAM	1	3	20.74	20.95	20.62	22.00
1.4	64QAM	1	5	20.79	20.94	20.53	22.00
1.4	64QAM	3	0	20.77	21.05	20.60	22.00
1.4	64QAM	3	1	20.70	21.02	20.70	22.00
1.4	64QAM	3	3	21.04	21.12	20.69	22.00
1.4	64QAM	6	0	19.82	19.98	19.55	21.00

【LTE Band 71】

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	Tune-up limit (dBm)
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.31	23.35	23.25	24.00
20	QPSK	1	49	23.53	23.33	23.50	24.00
20	QPSK	1	99	23.02	22.91	23.14	24.00
20	QPSK	50	0	22.21	22.30	22.25	23.00
20	QPSK	50	24	22.36	22.28	22.54	23.00
20	QPSK	50	50	22.36	22.26	22.45	23.00
20	QPSK	100	0	22.43	22.27	22.50	23.00
20	16QAM	1	0	22.03	21.96	22.10	23.00
20	16QAM	1	49	22.10	21.94	22.13	23.00
20	16QAM	1	99	21.94	21.83	22.02	23.00
20	16QAM	50	0	21.42	21.32	21.56	22.00
20	16QAM	50	24	21.37	21.31	21.47	22.00
20	16QAM	50	50	21.38	21.23	21.47	22.00
20	16QAM	100	0	21.32	21.21	21.36	22.00
20	64QAM	1	0	20.61	20.51	20.64	22.00
20	64QAM	1	49	20.89	20.71	20.86	22.00
20	64QAM	1	99	20.71	20.58	20.73	22.00
20	64QAM	50	0	20.44	20.33	20.55	21.00
20	64QAM	50	24	20.28	20.11	20.24	21.00
20	64QAM	50	50	20.36	20.18	20.37	21.00
20	64QAM	100	0	20.13	20.06	20.17	21.00
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.14	22.87	23.23	24.00
15	QPSK	1	37	23.50	23.25	23.47	24.00
15	QPSK	1	74	22.90	22.84	22.99	24.00
15	QPSK	36	0	22.30	22.28	22.30	23.00
15	QPSK	36	20	22.30	22.23	22.52	23.00
15	QPSK	36	39	22.34	22.18	22.38	23.00
15	QPSK	75	0	22.31	22.23	22.44	23.00
15	16QAM	1	0	21.97	21.91	22.04	23.00
15	16QAM	1	37	22.06	21.80	22.11	23.00
15	16QAM	1	74	21.91	21.73	22.01	23.00
15	16QAM	36	0	21.36	21.26	21.50	22.00
15	16QAM	36	20	21.28	21.25	21.44	22.00
15	16QAM	36	39	21.34	21.17	21.37	22.00
15	16QAM	75	0	21.24	21.17	21.33	22.00
15	64QAM	1	0	20.53	20.43	20.51	22.00



15	64QAM	1	37	20.86	20.68	20.78	22.00
15	64QAM	1	74	20.60	20.51	20.60	22.00
15	64QAM	36	0	20.38	20.31	20.41	21.00
15	64QAM	36	20	20.26	20.03	20.15	21.00
15	64QAM	36	39	20.35	20.13	20.25	21.00
15	64QAM	75	0	20.10	20.01	20.15	21.00
Channel				133172	133297	133422	Tune-up limit
Frequency (MHz)				668	680.5	693	(dBm)
10	QPSK	1	0	23.15	22.91	23.24	24.00
10	QPSK	1	25	23.42	23.22	23.47	24.00
10	QPSK	1	49	22.93	22.90	23.01	24.00
10	QPSK	25	0	22.31	22.20	22.29	23.00
10	QPSK	25	12	22.31	22.19	22.47	23.00
10	QPSK	25	25	22.27	22.13	22.37	23.00
10	QPSK	50	0	22.37	22.18	22.48	23.00
10	16QAM	1	0	21.99	21.85	22.00	23.00
10	16QAM	1	25	22.07	21.85	22.08	23.00
10	16QAM	1	49	21.87	21.72	21.96	23.00
10	16QAM	25	0	21.37	21.18	21.48	22.00
10	16QAM	25	12	21.31	21.29	21.41	22.00
10	16QAM	25	25	21.36	21.22	21.33	22.00
10	16QAM	50	0	21.27	21.10	21.34	22.00
10	64QAM	1	0	20.54	20.43	20.50	22.00
10	64QAM	1	25	20.82	20.70	20.75	22.00
10	64QAM	1	49	20.68	20.48	20.62	22.00
10	64QAM	25	0	20.39	20.19	20.53	21.00
10	64QAM	25	12	20.15	20.09	20.14	21.00
10	64QAM	25	25	20.33	20.16	20.34	21.00
10	64QAM	50	0	19.99	19.95	20.11	21.00
Channel				133147	133297	133447	Tune-up limit
Frequency (MHz)				665.5	680.5	695.5	(dBm)
5	QPSK	1	0	23.13	22.85	23.14	24.00
5	QPSK	1	12	23.44	23.23	23.43	24.00
5	QPSK	1	24	22.99	22.78	23.06	24.00
5	QPSK	12	0	22.37	22.23	22.41	23.00
5	QPSK	12	7	22.21	22.27	22.47	23.00
5	QPSK	12	13	22.26	22.20	22.38	23.00
5	QPSK	25	0	22.40	22.12	22.44	23.00
5	16QAM	1	0	21.88	21.92	21.99	23.00
5	16QAM	1	12	22.09	21.81	22.03	23.00
5	16QAM	1	24	21.86	21.70	21.90	23.00
5	16QAM	12	0	21.34	21.17	21.51	22.00
5	16QAM	12	7	21.36	21.25	21.35	22.00
5	16QAM	12	13	21.25	21.09	21.34	22.00
5	16QAM	25	0	21.22	21.10	21.30	22.00
5	64QAM	1	0	20.51	20.43	20.49	22.00
5	64QAM	1	12	20.84	20.65	20.75	22.00
5	64QAM	1	24	20.62	20.44	20.61	22.00
5	64QAM	12	0	20.43	20.21	20.42	21.00
5	64QAM	12	7	20.21	20.01	20.13	21.00
5	64QAM	12	13	20.23	20.12	20.28	21.00
5	64QAM	25	0	20.03	20.04	20.04	21.00

<Bluetooth Conducted Power>
【Bluetooth】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
BR / EDR 1Mbps	0	2402	12.02	13.00	77.16
	39	2441	12.73	14.00	
	78	2480	12.09	13.00	
BR / EDR 2Mbps	0	2402	8.98	10.00	77.16
	39	2441	10.13	11.50	
	78	2480	9.73	11.00	
BR / EDR 3Mbps	0	2402	9.01	10.00	76.78
	39	2441	10.16	11.50	
	78	2480	9.80	11.00	
LE 1Mbps	0	2402	6.80	8.00	62.82
	19	2440	8.34	9.50	
	39	2480	8.30	9.50	

<WLAN Conducted Power>
【2.4GHz WLAN】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11b 1Mbps	1	2412	16.96	18.50	100.00
	6	2437	17.26	19.00	
	11	2462	17.44	19.00	
802.11g 6Mbps	1	2412	16.22	18.00	98.26
	6	2437	17.22	19.00	
	11	2462	17.27	19.00	
802.11n-HT20 MCS0	1	2412	15.84	17.50	98.14
	6	2437	16.98	18.50	
	11	2462	16.95	18.50	
802.11n-HT40 MCS0	3	2422	15.00	16.50	92.65
	6	2437	16.86	18.50	
	9	2452	15.25	17.00	

【5.2GHz WLAN】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	36	5180	15.04	16.50	98.26
	40	5200	15.05	16.50	
	44	5220	14.99	16.50	
	48	5240	14.94	16.50	
802.11n-HT20 MCS0	36	5180	14.86	16.50	98.14
	40	5200	14.92	16.50	
	44	5220	14.90	16.50	
	48	5240	14.83	16.50	
802.11n-HT40 MCS0	38	5190	13.44	15.00	96.27
	46	5230	16.22	18.00	
802.11ac-VHT20 MCS0	36	5180	15.79	17.50	98.15
	40	5200	15.87	17.50	
	44	5220	15.93	17.50	
	48	5240	15.83	17.50	
802.11ac-VHT40 MCS0	38	5190	13.37	15.00	96.30
	46	5230	15.17	16.50	
802.11ac-VHT80 MCS0	42	5210	11.19	13.00	92.75

**【5.3GHz WLAN】**

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	52	5260	16.83	18.50	98.26
	56	5280	16.61	18.50	
	60	5300	16.52	18.00	
	64	5320	16.34	18.00	
802.11n-HT20 MCS0	52	5260	16.67	18.50	98.14
	56	5280	16.49	18.00	
	60	5300	16.27	18.00	
	64	5320	16.14	18.00	
802.11n-HT40 MCS0	54	5270	15.73	17.50	96.27
	62	5310	13.33	15.00	
802.11ac-VHT20 MCS0	52	5260	15.54	17.00	98.15
	56	5280	15.35	17.00	
	60	5300	15.24	17.00	
	64	5320	15.12	17.00	
802.11ac-VHT40 MCS0	54	5270	14.77	16.00	96.30
	62	5310	13.25	15.00	
802.11ac-VHT80 MCS0	58	5290	11.03	12.50	92.75

【5.5GHz WLAN】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	100	5500	16.63	18.50	98.26
	116	5580	16.69	18.50	
	124	5620	16.94	18.50	
	132	5660	17.45	19.00	
	140	5700	17.83	19.50	
	144	5720	17.71	19.50	
802.11n-HT20 MCS0	100	5500	16.42	18.00	98.14
	116	5580	16.54	18.00	
	124	5620	17.21	19.00	
	132	5660	17.24	19.00	
	140	5700	17.62	19.50	
	144	5720	17.53	19.00	
802.11n-HT40 MCS0	102	5510	14.52	16.00	96.27
	110	5550	15.60	17.50	
	126	5630	16.12	18.00	
	134	5670	16.66	18.50	
	142	5710	16.89	18.50	
	100	5500	15.37	17.00	
802.11ac-VHT20 MCS0	116	5580	15.47	17.00	98.15
	124	5620	15.79	17.50	
	132	5660	16.32	18.00	
	140	5700	16.76	18.50	
	144	5720	16.70	18.50	
	102	5510	14.44	16.00	
802.11ac-VHT40 MCS0	110	5550	14.72	16.50	96.30
	126	5630	15.28	17.00	
	134	5670	15.84	17.50	
	142	5710	15.98	17.50	
	106	5530	11.16	13.00	
	122	5610	11.29	13.00	
802.11ac-VHT80 MCS0	138	5690	12.31	14.00	92.75



【5.8GHz WLAN】			Ant 1		
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	17.42	19.00	98.26
	157	5785	16.99	18.50	
	165	5825	16.80	18.50	
802.11n-HT20 MCS0	149	5745	17.23	19.00	98.14
	157	5785	16.72	18.50	
	165	5825	16.55	18.00	
802.11n-HT40 MCS0	151	5755	16.33	18.00	96.27
	159	5795	16.00	17.50	
802.11ac-VHT20 MCS0	149	5745	16.26	18.00	98.15
	157	5785	15.80	17.50	
	165	5825	15.66	17.50	
802.11ac-VHT40 MCS0	151	5755	15.44	17.00	96.30
	159	5795	15.61	17.00	
802.11ac-VHT80 MCS0	155	5775	11.97	13.50	92.75