

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	22.34	22.63	22.58	24.00
3GPP Rel 6	HSDPA Subtest-1	21.22	21.68	21.39	23.00
3GPP Rel 6	HSDPA Subtest-2	21.34	21.75	21.30	23.00
3GPP Rel 6	HSDPA Subtest-3	20.90	20.99	21.02	22.50
3GPP Rel 6	HSDPA Subtest-4	21.22	21.33	21.03	22.50
3GPP Rel 6	HSUPA Subtest-1	21.46	21.55	21.49	23.00
3GPP Rel 6	HSUPA Subtest-2	19.36	19.58	19.53	21.00
3GPP Rel 6	HSUPA Subtest-3	20.31	20.61	20.22	22.00
3GPP Rel 6	HSUPA Subtest-4	19.60	19.76	19.49	21.00
3GPP Rel 6	HSUPA Subtest-5	21.54	21.81	21.42	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.09	19.39	18.95	20.50

【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	22.08	22.23	22.13	24.00
3GPP Rel 6	HSDPA Subtest-1	21.06	21.24	21.05	23.00
3GPP Rel 6	HSDPA Subtest-2	21.00	21.20	21.08	23.00
3GPP Rel 6	HSDPA Subtest-3	20.50	20.74	20.60	22.50
3GPP Rel 6	HSDPA Subtest-4	20.83	21.03	20.85	22.50
3GPP Rel 6	HSUPA Subtest-1	21.02	21.27	21.05	23.00
3GPP Rel 6	HSUPA Subtest-2	19.03	19.27	19.09	21.00
3GPP Rel 6	HSUPA Subtest-3	20.00	20.16	20.00	22.00
3GPP Rel 6	HSUPA Subtest-4	19.08	19.27	19.10	21.00
3GPP Rel 6	HSUPA Subtest-5	21.23	21.45	21.31	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.78	18.94	18.75	20.50

【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	23.41	23.66	23.63	24.00
3GPP Rel 6	HSDPA Subtest-1	22.22	22.68	22.27	23.00
3GPP Rel 6	HSDPA Subtest-2	22.23	22.67	22.19	23.00
3GPP Rel 6	HSDPA Subtest-3	21.91	22.12	21.75	22.50
3GPP Rel 6	HSDPA Subtest-4	22.11	22.18	21.87	22.50
3GPP Rel 6	HSUPA Subtest-1	22.39	22.46	22.45	23.00
3GPP Rel 6	HSUPA Subtest-2	20.42	20.58	20.36	21.00
3GPP Rel 6	HSUPA Subtest-3	21.08	21.53	21.31	22.00
3GPP Rel 6	HSUPA Subtest-4	20.39	20.65	20.57	21.00
3GPP Rel 6	HSUPA Subtest-5	22.43	22.80	22.36	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.01	20.25	20.05	20.50

<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	21.67	21.99	21.85	23.00
20	QPSK	1	49	21.66	21.87	21.82	23.00
20	QPSK	1	99	21.63	21.95	21.71	23.00
20	QPSK	50	0	21.61	21.97	21.86	23.00
20	QPSK	50	24	21.60	21.87	21.75	23.00
20	QPSK	50	50	21.55	21.96	21.77	23.00
20	QPSK	100	0	21.63	21.97	21.80	23.00
20	16QAM	1	0	21.57	21.99	21.90	23.00
20	16QAM	1	49	21.74	21.92	21.94	23.00
20	16QAM	1	99	21.64	21.95	21.83	23.00
20	16QAM	50	0	21.45	21.77	21.52	23.00
20	16QAM	50	24	21.25	21.57	21.34	23.00
20	16QAM	50	50	21.27	21.55	21.49	23.00
20	16QAM	100	0	21.32	21.62	21.37	23.00
20	64QAM	1	0	21.27	21.60	21.34	23.00
20	64QAM	1	49	21.91	22.28	22.17	23.00
20	64QAM	1	99	21.74	22.04	21.88	23.00
20	64QAM	50	0	20.19	20.63	20.41	22.00
20	64QAM	50	24	20.33	20.66	20.41	22.00
20	64QAM	50	50	20.19	20.53	20.31	22.00
20	64QAM	100	0	20.14	20.53	20.27	22.00
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.58	21.95	21.81	23.00
15	QPSK	1	37	21.51	21.75	21.79	23.00
15	QPSK	1	74	21.49	21.89	21.69	23.00
15	QPSK	36	0	21.54	21.91	21.75	23.00
15	QPSK	36	20	21.48	21.75	21.69	23.00
15	QPSK	36	39	21.49	21.91	21.71	23.00
15	QPSK	75	0	21.58	21.89	21.66	23.00
15	16QAM	1	0	21.45	21.85	21.77	23.00
15	16QAM	1	37	21.60	21.82	21.85	23.00
15	16QAM	1	74	21.55	21.90	21.78	23.00
15	16QAM	36	0	21.37	21.74	21.39	23.00
15	16QAM	36	20	21.21	21.54	21.22	23.00
15	16QAM	36	39	21.21	21.41	21.37	23.00
15	16QAM	75	0	21.25	21.56	21.22	23.00
15	64QAM	1	0	21.19	21.55	21.30	23.00
15	64QAM	1	37	21.66	21.99	21.85	23.00
15	64QAM	1	74	21.62	21.97	21.85	23.00
15	64QAM	36	0	20.10	20.61	20.30	22.00
15	64QAM	36	20	20.21	20.54	20.35	22.00
15	64QAM	36	39	20.11	20.39	20.21	22.00
15	64QAM	75	0	20.12	20.39	20.13	22.00
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.63	21.98	21.73	23.00
10	QPSK	1	25	21.62	21.80	21.72	23.00
10	QPSK	1	49	21.58	21.86	21.60	23.00
10	QPSK	25	0	21.46	21.90	21.83	23.00
10	QPSK	25	12	21.52	21.74	21.65	23.00
10	QPSK	25	25	21.45	21.88	21.68	23.00
10	QPSK	50	0	21.54	21.84	21.70	23.00
10	16QAM	1	0	21.47	21.88	21.77	23.00
10	16QAM	1	25	21.67	21.86	21.85	23.00
10	16QAM	1	49	21.53	21.80	21.69	23.00
10	16QAM	25	0	21.30	21.63	21.38	23.00
10	16QAM	25	12	21.21	21.48	21.27	23.00
10	16QAM	25	25	21.22	21.52	21.43	23.00
10	16QAM	50	0	21.29	21.57	21.27	23.00
10	64QAM	1	0	21.24	21.58	21.27	23.00
10	64QAM	1	25	21.65	21.99	21.85	23.00
10	64QAM	1	49	21.63	21.97	21.79	23.00

10	64QAM	25	0	20.16	20.51	20.27	22.00
10	64QAM	25	12	20.25	20.64	20.31	22.00
10	64QAM	25	25	20.16	20.48	20.22	22.00
10	64QAM	50	0	20.01	20.41	20.12	22.00
Channel				18625	18900	19175	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	QPSK	1	0	21.64	21.94	21.76	23.00
5	QPSK	1	12	21.54	21.73	21.76	23.00
5	QPSK	1	24	21.51	21.92	21.64	23.00
5	QPSK	12	0	21.47	21.90	21.81	23.00
5	QPSK	12	7	21.57	21.79	21.61	23.00
5	QPSK	12	13	21.45	21.90	21.65	23.00
5	QPSK	25	0	21.62	21.95	21.72	23.00
5	16QAM	1	0	21.52	21.85	21.85	23.00
5	16QAM	1	12	21.65	21.91	21.82	23.00
5	16QAM	1	24	21.56	21.90	21.72	23.00
5	16QAM	12	0	21.34	21.67	21.42	23.00
5	16QAM	12	7	21.12	21.45	21.25	23.00
5	16QAM	12	13	21.20	21.41	21.43	23.00
5	16QAM	25	0	21.30	21.58	21.24	23.00
5	64QAM	1	0	21.17	21.57	21.27	23.00
5	64QAM	1	12	21.65	21.99	21.84	23.00
5	64QAM	1	24	21.61	21.93	21.83	23.00
5	64QAM	12	0	20.17	20.61	20.34	22.00
5	64QAM	12	7	20.25	20.58	20.40	22.00
5	64QAM	12	13	20.14	20.51	20.24	22.00
5	64QAM	25	0	20.08	20.42	20.22	22.00
Channel				18615	18900	19185	Tune-up limit
Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	21.61	21.89	21.80	23.00
3	QPSK	1	8	21.58	21.82	21.76	23.00
3	QPSK	1	14	21.52	21.81	21.63	23.00
3	QPSK	8	0	21.57	21.87	21.77	23.00
3	QPSK	8	4	21.58	21.74	21.71	23.00
3	QPSK	8	7	21.42	21.81	21.64	23.00
3	QPSK	15	0	21.60	21.89	21.70	23.00
3	16QAM	1	0	21.47	21.90	21.82	23.00
3	16QAM	1	8	21.59	21.85	21.82	23.00
3	16QAM	1	14	21.51	21.92	21.71	23.00
3	16QAM	8	0	21.35	21.71	21.46	23.00
3	16QAM	8	4	21.18	21.56	21.28	23.00
3	16QAM	8	7	21.23	21.46	21.46	23.00
3	16QAM	15	0	21.22	21.59	21.30	23.00
3	64QAM	1	0	21.16	21.56	21.27	23.00
3	64QAM	1	8	21.66	21.99	21.85	23.00
3	64QAM	1	14	21.63	21.99	21.75	23.00
3	64QAM	8	0	20.07	20.49	20.32	22.00
3	64QAM	8	4	20.30	20.55	20.38	22.00
3	64QAM	8	7	20.10	20.47	20.20	22.00
3	64QAM	15	0	20.09	20.44	20.17	22.00
Channel				18607	18900	19193	Tune-up limit
Frequency (MHz)				1850.7	1880	1909.3	(dBm)
1.4	QPSK	1	0	21.64	21.89	21.71	23.00
1.4	QPSK	1	3	21.54	21.84	21.77	23.00
1.4	QPSK	1	5	21.49	21.85	21.70	23.00
1.4	QPSK	3	0	21.50	21.92	21.79	23.00
1.4	QPSK	3	1	21.56	21.73	21.60	23.00
1.4	QPSK	3	3	21.51	21.89	21.66	23.00
1.4	QPSK	6	0	21.49	21.95	21.79	23.00
1.4	16QAM	1	0	21.53	21.88	21.82	23.00
1.4	16QAM	1	3	21.65	21.89	21.81	23.00
1.4	16QAM	1	5	21.59	21.92	21.70	23.00
1.4	16QAM	3	0	21.40	21.74	21.38	23.00
1.4	16QAM	3	1	21.19	21.47	21.31	23.00
1.4	16QAM	3	3	21.15	21.43	21.47	23.00
1.4	16QAM	6	0	21.24	21.57	21.24	23.00
1.4	64QAM	1	0	21.14	21.51	21.21	23.00
1.4	64QAM	1	3	21.66	21.99	21.84	23.00
1.4	64QAM	1	5	21.65	21.89	21.79	23.00
1.4	64QAM	3	0	21.06	21.58	21.37	23.00
1.4	64QAM	3	1	21.23	21.52	21.31	23.00
1.4	64QAM	3	3	21.13	21.48	21.25	23.00
1.4	64QAM	6	0	20.05	20.42	20.15	22.00

【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	Tune-up limit (dBm)
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	21.14	21.30	21.40	22.00
20	QPSK	1	49	21.25	21.29	21.42	22.00
20	QPSK	1	99	21.24	21.24	21.39	22.00
20	QPSK	50	0	21.19	21.26	21.45	22.00
20	QPSK	50	24	21.21	21.25	21.44	22.00
20	QPSK	50	50	21.19	21.23	21.46	22.00
20	QPSK	100	0	21.28	21.23	21.43	22.00
20	16QAM	1	0	21.20	21.22	21.41	22.00
20	16QAM	1	49	21.13	21.21	21.50	22.00
20	16QAM	1	99	21.24	21.37	21.48	22.00
20	16QAM	50	0	21.01	21.02	21.04	22.00
20	16QAM	50	24	21.01	21.04	21.09	22.00
20	16QAM	50	50	21.00	21.10	21.13	22.00
20	16QAM	100	0	21.01	21.09	21.23	22.00
20	64QAM	1	0	21.30	21.42	21.48	22.00
20	64QAM	1	49	21.47	21.65	21.70	22.00
20	64QAM	1	99	21.35	21.50	21.53	22.00
20	64QAM	50	0	20.20	20.30	20.32	21.00
20	64QAM	50	24	20.00	20.10	20.13	21.00
20	64QAM	50	50	20.07	20.18	20.20	21.00
20	64QAM	100	0	20.01	20.02	20.03	21.00
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	21.03	21.20	21.31	22.00
15	QPSK	1	37	21.11	21.27	21.38	22.00
15	QPSK	1	74	21.12	21.09	21.27	22.00
15	QPSK	36	0	21.14	21.24	21.39	22.00
15	QPSK	36	20	21.14	21.12	21.32	22.00
15	QPSK	36	39	21.14	21.21	21.36	22.00
15	QPSK	75	0	21.14	21.10	21.40	22.00
15	16QAM	1	0	21.06	21.18	21.27	22.00
15	16QAM	1	37	21.00	21.19	21.40	22.00
15	16QAM	1	74	21.14	21.30	21.39	22.00
15	16QAM	36	0	21.00	20.99	21.01	22.00
15	16QAM	36	20	20.91	20.91	21.07	22.00
15	16QAM	36	39	20.96	21.00	21.08	22.00
15	16QAM	75	0	20.97	20.97	21.19	22.00
15	64QAM	1	0	21.13	21.30	21.40	22.00
15	64QAM	1	37	21.13	21.29	21.40	22.00
15	64QAM	1	74	21.14	21.28	21.38	22.00
15	64QAM	36	0	20.10	20.25	20.31	21.00
15	64QAM	36	20	19.96	20.05	20.10	21.00
15	64QAM	36	39	20.05	20.04	20.14	21.00
15	64QAM	75	0	19.91	20.00	19.95	21.00
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	21.06	21.18	21.32	22.00
10	QPSK	1	25	21.12	21.23	21.39	22.00
10	QPSK	1	49	21.14	21.21	21.31	22.00
10	QPSK	25	0	21.05	21.12	21.40	22.00
10	QPSK	25	12	21.13	21.24	21.32	22.00
10	QPSK	25	25	21.06	21.15	21.39	22.00
10	QPSK	50	0	21.13	21.15	21.40	22.00
10	16QAM	1	0	21.13	21.20	21.32	22.00
10	16QAM	1	25	21.11	21.20	21.36	22.00
10	16QAM	1	49	21.14	21.30	21.35	22.00
10	16QAM	25	0	20.92	20.94	20.96	22.00
10	16QAM	25	12	20.95	20.92	21.06	22.00
10	16QAM	25	25	20.93	21.02	21.09	22.00
10	16QAM	50	0	20.91	20.98	21.20	22.00
10	64QAM	1	0	21.14	21.28	21.34	22.00
10	64QAM	1	25	21.13	21.30	21.39	22.00
10	64QAM	1	49	21.14	21.29	21.38	22.00
10	64QAM	25	0	20.10	20.25	20.19	21.00
10	64QAM	25	12	19.94	20.00	20.05	21.00
10	64QAM	25	25	20.01	20.14	20.16	21.00
10	64QAM	50	0	19.91	19.91	20.02	21.00
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	21.04	21.28	21.26	22.00
5	QPSK	1	12	21.14	21.27	21.35	22.00

5	QPSK	1	24	21.14	21.12	21.33	22.00
5	QPSK	12	0	21.11	21.11	21.38	22.00
5	QPSK	12	7	21.12	21.18	21.38	22.00
5	QPSK	12	13	21.07	21.22	21.40	22.00
5	QPSK	25	0	21.14	21.20	21.38	22.00
5	16QAM	1	0	21.12	21.20	21.32	22.00
5	16QAM	1	12	20.98	21.08	21.39	22.00
5	16QAM	1	24	21.11	21.22	21.40	22.00
5	16QAM	12	0	20.88	20.88	20.92	22.00
5	16QAM	12	7	20.88	20.99	20.99	22.00
5	16QAM	12	13	20.87	21.03	20.99	22.00
5	16QAM	25	0	20.88	21.02	21.13	22.00
5	64QAM	1	0	21.14	21.30	21.40	22.00
5	64QAM	1	12	21.14	21.29	21.40	22.00
5	64QAM	1	24	21.14	21.30	21.39	22.00
5	64QAM	12	0	20.09	20.18	20.19	21.00
5	64QAM	12	7	19.89	20.07	20.06	21.00
5	64QAM	12	13	19.95	20.10	20.09	21.00
5	64QAM	25	0	19.88	19.93	19.94	21.00
Channel				19965	20175	20385	Tune-up limit
Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	21.07	21.17	21.37	22.00
3	QPSK	1	8	21.12	21.20	21.29	22.00
3	QPSK	1	14	21.14	21.14	21.27	22.00
3	QPSK	8	0	21.13	21.22	21.33	22.00
3	QPSK	8	4	21.10	21.15	21.31	22.00
3	QPSK	8	7	21.14	21.17	21.36	22.00
3	QPSK	15	0	21.13	21.18	21.31	22.00
3	16QAM	1	0	21.11	21.12	21.27	22.00
3	16QAM	1	8	21.02	21.18	21.40	22.00
3	16QAM	1	14	21.13	21.23	21.40	22.00
3	16QAM	8	0	20.91	21.00	20.98	22.00
3	16QAM	8	4	20.99	20.92	21.07	22.00
3	16QAM	8	7	20.92	21.03	21.11	22.00
3	16QAM	15	0	20.88	21.04	21.17	22.00
3	64QAM	1	0	21.14	21.30	21.39	22.00
3	64QAM	1	8	21.13	21.30	21.39	22.00
3	64QAM	1	14	21.14	21.30	21.40	22.00
3	64QAM	8	0	20.08	20.17	20.24	21.00
3	64QAM	8	4	19.90	19.96	20.09	21.00
3	64QAM	8	7	19.96	20.04	20.07	21.00
3	64QAM	15	0	19.92	19.97	19.96	21.00
Channel				19957	20175	20393	Tune-up limit
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	21.00	21.27	21.31	22.00
1.4	QPSK	1	3	21.13	21.25	21.40	22.00
1.4	QPSK	1	5	21.13	21.15	21.31	22.00
1.4	QPSK	3	0	21.12	21.15	21.37	22.00
1.4	QPSK	3	1	21.09	21.18	21.39	22.00
1.4	QPSK	3	3	21.11	21.22	21.34	22.00
1.4	QPSK	6	0	21.14	21.13	21.38	22.00
1.4	16QAM	1	0	21.13	21.21	21.36	22.00
1.4	16QAM	1	3	21.06	21.19	21.40	22.00
1.4	16QAM	1	5	21.13	21.30	21.37	22.00
1.4	16QAM	3	0	20.96	21.01	20.90	22.00
1.4	16QAM	3	1	20.97	21.03	21.06	22.00
1.4	16QAM	3	3	20.88	21.03	21.00	22.00
1.4	16QAM	6	0	20.95	20.95	21.14	22.00
1.4	64QAM	1	0	21.13	21.30	21.39	22.00
1.4	64QAM	1	3	21.14	21.30	21.38	22.00
1.4	64QAM	1	5	21.14	21.30	21.40	22.00
1.4	64QAM	3	0	21.12	21.20	21.19	22.00
1.4	64QAM	3	1	20.86	21.00	20.99	22.00
1.4	64QAM	3	3	21.04	21.09	21.18	22.00
1.4	64QAM	6	0	19.94	19.93	19.97	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	23.75	23.79	23.77	25.00
10	QPSK	1	25	23.56	23.71	23.54	25.00
10	QPSK	1	49	23.52	23.62	23.46	25.00
10	QPSK	25	0	22.41	22.55	22.41	24.00
10	QPSK	25	12	22.32	22.50	22.36	24.00
10	QPSK	25	25	22.33	22.52	22.35	24.00
10	QPSK	50	0	22.37	22.54	22.44	24.00
10	16QAM	1	0	22.27	22.39	22.23	24.00
10	16QAM	1	25	22.18	22.36	22.25	24.00
10	16QAM	1	49	22.18	22.34	22.26	24.00
10	16QAM	25	0	21.60	21.71	21.67	23.00
10	16QAM	25	12	21.51	21.68	21.64	23.00
10	16QAM	25	25	21.58	21.69	21.58	23.00
10	16QAM	50	0	21.54	21.62	21.52	23.00
10	64QAM	1	0	21.44	21.53	21.38	23.00
10	64QAM	1	25	21.35	21.50	21.47	23.00
10	64QAM	1	49	21.38	21.43	21.28	23.00
10	64QAM	25	0	20.51	20.65	20.59	22.00
10	64QAM	25	12	20.55	20.72	20.56	22.00
10	64QAM	25	25	20.45	20.63	20.53	22.00
10	64QAM	50	0	20.41	20.52	20.45	22.00
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.69	23.70	23.74	25.00
5	QPSK	1	12	23.47	23.67	23.52	25.00
5	QPSK	1	24	23.48	23.58	23.42	25.00
5	QPSK	12	0	22.32	22.42	22.37	24.00
5	QPSK	12	7	22.20	22.36	22.32	24.00
5	QPSK	12	13	22.25	22.40	22.27	24.00
5	QPSK	25	0	22.34	22.45	22.38	24.00
5	16QAM	1	0	22.19	22.25	22.17	24.00
5	16QAM	1	12	22.07	22.34	22.11	24.00
5	16QAM	1	24	22.07	22.32	22.11	24.00
5	16QAM	12	0	21.47	21.69	21.57	23.00
5	16QAM	12	7	21.43	21.62	21.51	23.00
5	16QAM	12	13	21.57	21.61	21.48	23.00
5	16QAM	25	0	21.48	21.51	21.44	23.00
5	64QAM	1	0	21.34	21.48	21.26	23.00
5	64QAM	1	12	21.23	21.45	21.39	23.00
5	64QAM	1	24	21.29	21.32	21.19	23.00
5	64QAM	12	0	20.43	20.52	20.55	22.00
5	64QAM	12	7	20.53	20.68	20.45	22.00
5	64QAM	12	13	20.42	20.60	20.45	22.00
5	64QAM	25	0	20.37	20.51	20.31	22.00
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.61	23.68	23.72	25.00
3	QPSK	1	8	23.43	23.61	23.50	25.00
3	QPSK	1	14	23.46	23.52	23.44	25.00
3	QPSK	8	0	22.28	22.50	22.36	24.00
3	QPSK	8	4	22.25	22.49	22.23	24.00
3	QPSK	8	7	22.24	22.47	22.29	24.00
3	QPSK	15	0	22.36	22.53	22.33	24.00
3	16QAM	1	0	22.16	22.36	22.16	24.00
3	16QAM	1	8	22.15	22.22	22.21	24.00
3	16QAM	1	14	22.17	22.30	22.16	24.00
3	16QAM	8	0	21.51	21.66	21.54	23.00
3	16QAM	8	4	21.41	21.54	21.49	23.00
3	16QAM	8	7	21.55	21.64	21.49	23.00
3	16QAM	15	0	21.45	21.53	21.51	23.00
3	64QAM	1	0	21.33	21.41	21.23	23.00
3	64QAM	1	8	21.30	21.49	21.38	23.00
3	64QAM	1	14	21.34	21.29	21.26	23.00
3	64QAM	8	0	20.36	20.54	20.50	22.00
3	64QAM	8	4	20.53	20.70	20.43	22.00
3	64QAM	8	7	20.32	20.51	20.40	22.00
3	64QAM	15	0	20.28	20.40	20.31	22.00
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.64	23.73	23.67	25.00
1.4	QPSK	1	3	23.54	23.57	23.46	25.00

1.4	QPSK	1	5	23.49	23.55	23.34	25.00
1.4	QPSK	3	0	23.32	23.43	23.35	25.00
1.4	QPSK	3	1	23.20	23.44	23.34	25.00
1.4	QPSK	3	3	23.30	23.47	23.34	25.00
1.4	QPSK	6	0	22.35	22.43	22.43	24.00
1.4	16QAM	1	0	22.25	22.25	22.14	24.00
1.4	16QAM	1	3	22.10	22.23	22.19	24.00
1.4	16QAM	1	5	22.11	22.32	22.17	24.00
1.4	16QAM	3	0	22.46	22.67	22.61	24.00
1.4	16QAM	3	1	22.50	22.56	22.63	24.00
1.4	16QAM	3	3	22.47	22.64	22.54	24.00
1.4	16QAM	6	0	21.49	21.53	21.47	23.00
1.4	64QAM	1	0	21.41	21.49	21.36	23.00
1.4	64QAM	1	3	21.33	21.48	21.34	23.00
1.4	64QAM	1	5	21.25	21.32	21.21	23.00
1.4	64QAM	3	0	21.41	21.54	21.48	23.00
1.4	64QAM	3	1	21.43	21.58	21.50	23.00
1.4	64QAM	3	3	21.40	21.55	21.42	23.00
1.4	64QAM	6	0	20.40	20.44	20.40	22.00

【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	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.13	23.37	23.01	24.00
20	QPSK	1	49	23.36	22.85	22.95	24.00
20	QPSK	1	99	22.76	22.81	22.77	24.00
20	QPSK	50	0	21.87	21.88	21.81	23.00
20	QPSK	50	24	21.75	21.87	21.85	23.00
20	QPSK	50	50	21.71	21.74	21.81	23.00
20	QPSK	100	0	21.83	21.86	21.84	23.00
20	16QAM	1	0	21.26	21.72	21.73	23.00
20	16QAM	1	49	21.65	21.66	21.72	23.00
20	16QAM	1	99	21.74	21.75	21.68	23.00
20	16QAM	50	0	20.79	20.91	20.80	22.00
20	16QAM	50	24	20.77	20.81	20.88	22.00
20	16QAM	50	50	20.86	20.75	20.85	22.00
20	16QAM	100	0	20.78	20.69	20.74	22.00
20	64QAM	1	0	21.11	21.70	21.80	22.00
20	64QAM	1	49	21.53	21.48	21.41	22.00
20	64QAM	1	99	21.06	21.06	21.30	22.00
20	64QAM	50	0	20.79	20.81	20.85	21.00
20	64QAM	50	24	20.75	20.72	20.95	21.00
20	64QAM	50	50	20.73	20.70	20.80	21.00
20	64QAM	100	0	20.67	20.72	20.74	21.00
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.07	22.65	22.88	24.00
15	QPSK	1	37	23.12	22.72	22.90	24.00
15	QPSK	1	74	22.69	22.67	22.62	24.00
15	QPSK	36	0	21.82	21.75	21.73	23.00
15	QPSK	36	20	21.63	21.78	21.72	23.00
15	QPSK	36	39	21.69	21.70	21.75	23.00
15	QPSK	75	0	21.75	21.70	21.72	23.00
15	16QAM	1	0	21.18	21.62	21.62	23.00
15	16QAM	1	37	21.59	21.54	21.68	23.00
15	16QAM	1	74	21.65	21.63	21.66	23.00
15	16QAM	36	0	20.77	20.89	20.75	22.00
15	16QAM	36	20	20.63	20.77	20.85	22.00
15	16QAM	36	39	20.76	20.67	20.70	22.00
15	16QAM	75	0	20.70	20.58	20.61	22.00
15	64QAM	1	0	21.03	21.68	21.76	22.00
15	64QAM	1	37	21.47	21.46	21.34	22.00
15	64QAM	1	74	20.96	20.98	21.28	22.00
15	64QAM	36	0	20.66	20.79	20.82	21.00
15	64QAM	36	20	20.73	20.65	20.86	21.00
15	64QAM	36	39	20.68	20.56	20.67	21.00
15	64QAM	75	0	20.58	20.66	20.69	21.00
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.20	22.62	22.90	24.00

10	QPSK	1	25	23.19	22.71	22.82	24.00
10	QPSK	1	49	22.67	22.72	22.67	24.00
10	QPSK	25	0	21.80	21.78	21.73	23.00
10	QPSK	25	12	21.73	21.73	21.81	23.00
10	QPSK	25	25	21.58	21.69	21.74	23.00
10	QPSK	50	0	21.74	21.67	21.70	23.00
10	16QAM	1	0	21.21	21.62	21.67	23.00
10	16QAM	1	25	21.54	21.63	21.67	23.00
10	16QAM	1	49	21.62	21.68	21.54	23.00
10	16QAM	25	0	20.77	20.78	20.77	22.00
10	16QAM	25	12	20.69	20.79	20.83	22.00
10	16QAM	25	25	20.81	20.71	20.79	22.00
10	16QAM	50	0	20.73	20.59	20.63	22.00
10	64QAM	1	0	21.08	21.57	21.73	22.00
10	64QAM	1	25	21.40	21.33	21.35	22.00
10	64QAM	1	49	20.93	21.00	21.24	22.00
10	64QAM	25	0	20.70	20.67	20.71	21.00
10	64QAM	25	12	20.72	20.65	20.90	21.00
10	64QAM	25	25	20.63	20.61	20.79	21.00
10	64QAM	50	0	20.54	20.61	20.64	21.00
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.18	22.69	22.94	24.00
5	QPSK	1	12	23.24	22.76	22.93	24.00
5	QPSK	1	24	22.64	22.75	22.71	24.00
5	QPSK	12	0	21.83	21.73	21.75	23.00
5	QPSK	12	7	21.61	21.79	21.80	23.00
5	QPSK	12	13	21.60	21.62	21.76	23.00
5	QPSK	25	0	21.77	21.71	21.78	23.00
5	16QAM	1	0	21.17	21.66	21.70	23.00
5	16QAM	1	12	21.59	21.64	21.70	23.00
5	16QAM	1	24	21.62	21.71	21.55	23.00
5	16QAM	12	0	20.77	20.81	20.71	22.00
5	16QAM	12	7	20.73	20.75	20.84	22.00
5	16QAM	12	13	20.72	20.64	20.82	22.00
5	16QAM	25	0	20.72	20.61	20.62	22.00
5	64QAM	1	0	21.05	21.68	21.73	22.00
5	64QAM	1	12	21.50	21.41	21.35	22.00
5	64QAM	1	24	20.99	21.02	21.26	22.00
5	64QAM	12	0	20.75	20.79	20.79	21.00
5	64QAM	12	7	20.68	20.71	20.86	21.00
5	64QAM	12	13	20.70	20.68	20.74	21.00
5	64QAM	25	0	20.65	20.63	20.67	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	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.06	23.15	23.16	24.00
10	QPSK	1	25	22.98	23.13	23.06	24.00
10	QPSK	1	49	23.04	23.14	23.00	24.00
10	QPSK	25	0	21.97	22.17	22.04	23.00
10	QPSK	25	12	21.84	22.07	22.04	23.00
10	QPSK	25	25	21.94	22.01	22.01	23.00
10	QPSK	50	0	21.96	22.15	22.03	23.00
10	16QAM	1	0	21.77	22.00	21.87	23.00
10	16QAM	1	25	21.86	22.01	21.88	23.00
10	16QAM	1	49	21.84	22.03	22.01	23.00
10	16QAM	25	0	21.02	21.14	21.10	22.00
10	16QAM	25	12	21.06	21.20	21.12	22.00
10	16QAM	25	25	20.96	21.13	21.03	22.00
10	16QAM	50	0	20.98	21.08	20.95	22.00
10	64QAM	1	0	20.93	21.06	21.00	22.00
10	64QAM	1	25	20.86	21.07	20.95	22.00
10	64QAM	1	49	20.79	21.01	20.94	22.00
10	64QAM	25	0	20.09	20.20	20.10	21.00
10	64QAM	25	12	20.18	20.29	20.17	21.00
10	64QAM	25	25	20.00	20.11	20.03	21.00
10	64QAM	50	0	20.08	20.19	20.13	21.00
Channel				23035	23095	23115	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	

5	QPSK	1	0	22.96	23.05	23.10	24.00
5	QPSK	1	12	22.92	23.03	22.97	24.00
5	QPSK	1	24	22.92	23.00	22.91	24.00
5	QPSK	12	0	21.85	22.08	22.02	23.00
5	QPSK	12	7	21.69	22.00	21.90	23.00
5	QPSK	12	13	21.89	22.09	21.97	23.00
5	QPSK	25	0	21.95	22.02	22.01	23.00
5	16QAM	1	0	21.74	21.92	21.79	23.00
5	16QAM	1	12	21.79	21.96	21.80	23.00
5	16QAM	1	24	21.77	22.01	22.00	23.00
5	16QAM	12	0	21.01	21.05	20.99	22.00
5	16QAM	12	7	20.99	21.17	21.09	22.00
5	16QAM	12	13	20.91	21.10	20.98	22.00
5	16QAM	25	0	20.84	21.04	20.86	22.00
5	64QAM	1	0	20.88	20.91	20.95	22.00
5	64QAM	1	12	20.78	20.95	20.85	22.00
5	64QAM	1	24	20.68	20.94	20.90	22.00
5	64QAM	12	0	20.07	20.08	20.08	21.00
5	64QAM	12	7	20.11	20.17	20.07	21.00
5	64QAM	12	13	19.96	19.98	19.92	21.00
5	64QAM	25	0	19.95	20.12	20.11	21.00
Channel				23025	23095	23165	Tune-up limit
Frequency (MHz)				700.5	707.5	714.5	(dBm)
3	QPSK	1	0	22.97	23.08	23.13	24.00
3	QPSK	1	8	22.95	23.11	22.97	24.00
3	QPSK	1	14	23.01	23.04	22.85	24.00
3	QPSK	8	0	21.96	22.13	21.97	23.00
3	QPSK	8	4	21.78	22.01	21.89	23.00
3	QPSK	8	7	21.89	22.09	21.91	23.00
3	QPSK	15	0	21.82	22.05	21.88	23.00
3	16QAM	1	0	21.70	21.95	21.85	23.00
3	16QAM	1	8	21.83	21.86	21.85	23.00
3	16QAM	1	14	21.75	21.96	21.89	23.00
3	16QAM	8	0	20.97	20.99	21.05	22.00
3	16QAM	8	4	20.97	21.14	21.10	22.00
3	16QAM	8	7	20.85	21.02	20.98	22.00
3	16QAM	15	0	20.84	21.05	20.88	22.00
3	64QAM	1	0	20.80	20.99	20.88	22.00
3	64QAM	1	8	20.72	20.95	20.83	22.00
3	64QAM	1	14	20.65	20.93	20.91	22.00
3	64QAM	8	0	19.97	20.06	20.09	21.00
3	64QAM	8	4	20.09	20.27	20.12	21.00
3	64QAM	8	7	19.93	19.97	19.98	21.00
3	64QAM	15	0	19.94	20.17	20.07	21.00
Channel				23017	23095	23173	Tune-up limit
Frequency (MHz)				699.7	707.5	715.3	(dBm)
1.4	QPSK	1	0	22.93	23.10	23.02	24.00
1.4	QPSK	1	3	22.84	23.07	22.93	24.00
1.4	QPSK	1	5	22.94	23.01	22.86	24.00
1.4	QPSK	3	0	22.95	23.03	22.96	24.00
1.4	QPSK	3	1	22.74	22.98	22.91	24.00
1.4	QPSK	3	3	22.87	22.97	22.90	24.00
1.4	QPSK	6	0	21.88	22.05	21.89	23.00
1.4	16QAM	1	0	21.63	21.96	21.81	23.00
1.4	16QAM	1	3	21.77	21.88	21.75	23.00
1.4	16QAM	1	5	21.82	21.89	21.92	23.00
1.4	16QAM	3	0	21.93	22.05	22.07	23.00
1.4	16QAM	3	1	22.02	22.16	22.10	23.00
1.4	16QAM	3	3	21.83	22.03	21.89	23.00
1.4	16QAM	6	0	20.96	21.07	20.83	22.00
1.4	64QAM	1	0	20.80	21.04	20.98	22.00
1.4	64QAM	1	3	20.72	20.93	20.87	22.00
1.4	64QAM	1	5	20.78	20.96	20.82	22.00
1.4	64QAM	3	0	20.96	21.08	21.04	22.00
1.4	64QAM	3	1	21.10	21.23	21.04	22.00
1.4	64QAM	3	3	20.91	21.09	20.90	22.00
1.4	64QAM	6	0	20.03	20.16	20.02	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		23.42		24.00
10	QPSK	1	25		23.39		24.00
10	QPSK	1	49		23.42		24.00
10	QPSK	25	0		22.16		23.00
10	QPSK	25	12		22.07		23.00
10	QPSK	25	25		22.11		23.00
10	QPSK	50	0		22.22		23.00
10	16QAM	1	0		21.75		23.00
10	16QAM	1	25		22.05		23.00
10	16QAM	1	49		22.26		23.00
10	16QAM	25	0		21.01		22.00
10	16QAM	25	12		21.17		22.00
10	16QAM	25	25		21.30		22.00
10	16QAM	50	0		21.17		22.00
10	64QAM	1	0		21.20		22.00
10	64QAM	1	25		21.47		22.00
10	64QAM	1	49		21.33		22.00
10	64QAM	25	0		20.05		21.00
10	64QAM	25	12		20.33		21.00
10	64QAM	25	25		20.09		21.00
10	64QAM	50	0		20.27		21.00
Channel				23205	23230	23255	Tune-up limit
Frequency (MHz)				779.5	782	784.5	(dBm)
5	QPSK	1	0	23.41	23.42	23.30	24.00
5	QPSK	1	12	23.08	23.18	22.96	24.00
5	QPSK	1	24	23.24	23.40	23.26	24.00
5	QPSK	12	0	22.08	22.12	21.95	23.00
5	QPSK	12	7	22.01	22.03	21.79	23.00
5	QPSK	12	13	21.86	21.93	21.75	23.00
5	QPSK	25	0	22.08	22.14	21.92	23.00
5	16QAM	1	0	21.55	21.60	21.43	23.00
5	16QAM	1	12	21.89	22.00	21.82	23.00
5	16QAM	1	24	22.05	22.18	21.95	23.00
5	16QAM	12	0	20.68	20.82	20.66	22.00
5	16QAM	12	7	21.04	21.08	20.84	22.00
5	16QAM	12	13	21.07	21.21	21.05	22.00
5	16QAM	25	0	21.01	21.11	20.94	22.00
5	64QAM	1	0	21.12	21.16	20.99	22.00
5	64QAM	1	12	21.36	21.43	21.20	22.00
5	64QAM	1	24	21.15	21.25	21.11	22.00
5	64QAM	12	0	19.77	19.88	19.75	21.00
5	64QAM	12	7	20.19	20.32	20.13	21.00
5	64QAM	12	13	19.74	19.89	19.77	21.00
5	64QAM	25	0	20.14	20.17	19.98	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		23.28		24.00
10	QPSK	1	25		23.25		24.00
10	QPSK	1	49		23.01		24.00
10	QPSK	25	0		22.12		23.00
10	QPSK	25	12		22.06		23.00
10	QPSK	25	25		22.02		23.00
10	QPSK	50	0		22.08		23.00
10	16QAM	1	0		22.02		23.00
10	16QAM	1	25		22.10		23.00
10	16QAM	1	49		22.21		23.00
10	16QAM	25	0		21.09		22.00
10	16QAM	25	12		21.12		22.00
10	16QAM	25	25		21.11		22.00
10	16QAM	50	0		21.06		22.00
10	64QAM	1	0		21.16		22.00
10	64QAM	1	25		21.06		22.00
10	64QAM	1	49		21.01		22.00
10	64QAM	25	0		20.29		21.00
10	64QAM	25	12		20.27		21.00
10	64QAM	25	25		20.23		21.00
10	64QAM	50	0		20.08		21.00

Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	23.11	23.26	23.18	24.00
5	QPSK	1	12	23.04	23.21	23.09	24.00
5	QPSK	1	24	22.63	22.80	22.67	24.00
5	QPSK	12	0	21.89	22.13	21.92	23.00
5	QPSK	12	7	21.84	22.01	21.90	23.00
5	QPSK	12	13	21.65	21.94	21.75	23.00
5	QPSK	25	0	21.73	21.89	21.68	23.00
5	16QAM	1	0	21.58	21.83	21.65	23.00
5	16QAM	1	12	21.87	22.10	21.91	23.00
5	16QAM	1	24	21.89	22.06	21.87	23.00
5	16QAM	12	0	20.84	21.07	20.85	22.00
5	16QAM	12	7	20.66	20.92	20.79	22.00
5	16QAM	12	13	20.73	20.93	20.72	22.00
5	16QAM	25	0	20.89	21.05	20.88	22.00
5	64QAM	1	0	20.85	21.02	20.85	22.00
5	64QAM	1	12	20.69	20.91	20.82	22.00
5	64QAM	1	24	20.65	20.84	20.62	22.00
5	64QAM	12	0	19.91	20.09	19.94	21.00
5	64QAM	12	7	19.96	20.19	20.06	21.00
5	64QAM	12	13	19.91	20.16	19.99	21.00
5	64QAM	25	0	19.68	19.89	19.80	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	23.18	23.18	23.06	24.00
10	QPSK	1	25	23.04	23.16	22.90	24.00
10	QPSK	1	49	22.87	22.96	22.69	24.00
10	QPSK	25	0	21.92	21.93	21.71	23.00
10	QPSK	25	12	21.81	21.90	21.77	23.00
10	QPSK	25	25	21.70	21.77	21.61	23.00
10	QPSK	50	0	21.91	21.94	21.76	23.00
10	16QAM	1	0	21.85	21.90	21.76	23.00
10	16QAM	1	25	21.92	21.93	21.79	23.00
10	16QAM	1	49	21.78	21.82	21.59	23.00
10	16QAM	25	0	20.77	20.88	20.68	22.00
10	16QAM	25	12	20.98	21.02	20.77	22.00
10	16QAM	25	25	20.80	20.81	20.61	22.00
10	16QAM	50	0	20.68	20.82	20.61	22.00
10	64QAM	1	0	20.94	21.02	20.77	22.00
10	64QAM	1	25	21.02	21.04	20.89	22.00
10	64QAM	1	49	20.89	20.92	20.75	22.00
10	64QAM	25	0	20.11	20.16	19.91	21.00
10	64QAM	25	12	20.04	20.12	19.95	21.00
10	64QAM	25	25	19.68	19.80	19.65	21.00
10	64QAM	50	0	19.79	19.90	19.76	21.00
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.04	23.14	22.91	24.00
5	QPSK	1	12	22.93	23.10	22.81	24.00
5	QPSK	1	24	22.78	22.94	22.67	24.00
5	QPSK	12	0	21.81	21.91	21.61	23.00
5	QPSK	12	7	21.70	21.79	21.66	23.00
5	QPSK	12	13	21.55	21.68	21.56	23.00
5	QPSK	25	0	21.81	21.81	21.73	23.00
5	16QAM	1	0	21.73	21.76	21.63	23.00
5	16QAM	1	12	21.81	21.88	21.70	23.00
5	16QAM	1	24	21.64	21.70	21.52	23.00
5	16QAM	12	0	20.71	20.74	20.63	22.00
5	16QAM	12	7	20.85	20.92	20.71	22.00
5	16QAM	12	13	20.65	20.67	20.47	22.00
5	16QAM	25	0	20.59	20.81	20.52	22.00
5	64QAM	1	0	20.88	20.94	20.63	22.00
5	64QAM	1	12	20.89	20.90	20.79	22.00
5	64QAM	1	24	20.80	20.83	20.69	22.00
5	64QAM	12	0	20.07	20.14	19.84	21.00
5	64QAM	12	7	19.93	19.98	19.92	21.00
5	64QAM	12	13	19.61	19.71	19.59	21.00

5	64QAM	25	0	19.73	19.79	19.70	21.00
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【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	21.77	22.07	21.93	23.00
20	QPSK	1	49	21.72	21.98	21.91	23.00
20	QPSK	1	99	21.75	22.06	21.85	23.00
20	QPSK	50	0	21.70	22.05	21.92	23.00
20	QPSK	50	24	21.67	21.97	21.89	23.00
20	QPSK	50	50	21.64	22.04	21.84	23.00
20	QPSK	100	0	21.70	22.10	21.89	23.00
20	16QAM	1	0	21.70	22.10	22.00	23.00
20	16QAM	1	49	21.81	21.99	22.00	23.00
20	16QAM	1	99	21.72	22.07	21.94	23.00
20	16QAM	50	0	21.56	21.83	21.60	23.00
20	16QAM	50	24	21.37	21.64	21.46	23.00
20	16QAM	50	50	21.36	21.69	21.56	23.00
20	16QAM	100	0	21.45	21.73	21.51	23.00
20	64QAM	1	0	21.38	21.68	21.43	23.00
20	64QAM	1	49	22.04	22.40	22.25	23.00
20	64QAM	1	99	21.86	22.15	21.96	23.00
20	64QAM	50	0	20.32	20.70	20.48	22.00
20	64QAM	50	24	20.42	20.72	20.51	22.00
20	64QAM	50	50	20.32	20.63	20.42	22.00
20	64QAM	100	0	20.23	20.60	20.41	22.00
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	21.68	21.98	21.91	23.00
15	QPSK	1	37	21.77	21.93	21.80	23.00
15	QPSK	1	74	21.61	21.93	21.87	23.00
15	QPSK	36	0	21.62	22.00	21.91	23.00
15	QPSK	36	20	21.72	21.94	21.83	23.00
15	QPSK	36	39	21.77	22.01	21.85	23.00
15	QPSK	75	0	21.64	22.07	21.78	23.00
15	16QAM	1	0	21.60	22.05	21.88	23.00
15	16QAM	1	37	21.72	21.91	21.93	23.00
15	16QAM	1	74	21.65	22.01	21.80	23.00
15	16QAM	36	0	21.54	21.82	21.58	23.00
15	16QAM	36	20	21.28	21.55	21.40	23.00
15	16QAM	36	39	21.22	21.62	21.48	23.00
15	16QAM	75	0	21.40	21.64	21.37	23.00
15	64QAM	1	0	21.32	21.55	21.34	23.00
15	64QAM	1	37	21.77	22.07	21.92	23.00
15	64QAM	1	74	21.77	22.05	21.92	23.00
15	64QAM	36	0	20.19	20.69	20.34	22.00
15	64QAM	36	20	20.29	20.70	20.41	22.00
15	64QAM	36	39	20.18	20.59	20.39	22.00
15	64QAM	75	0	20.17	20.56	20.29	22.00
Channel				26090	26340	26640	
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	21.67	22.01	21.80	23.00
10	QPSK	1	25	21.77	22.06	21.80	23.00
10	QPSK	1	49	21.66	22.05	21.91	23.00
10	QPSK	25	0	21.59	21.92	21.80	23.00
10	QPSK	25	12	21.69	21.94	21.77	23.00
10	QPSK	25	25	21.72	22.01	21.84	23.00
10	QPSK	50	0	21.58	22.00	21.82	23.00
10	16QAM	1	0	21.64	22.06	21.89	23.00
10	16QAM	1	25	21.66	21.98	21.91	23.00
10	16QAM	1	49	21.71	21.94	21.85	23.00
10	16QAM	25	0	21.54	21.80	21.49	23.00
10	16QAM	25	12	21.35	21.55	21.37	23.00
10	16QAM	25	25	21.31	21.55	21.49	23.00
10	16QAM	50	0	21.40	21.70	21.48	23.00
10	64QAM	1	0	21.27	21.66	21.39	23.00
10	64QAM	1	25	21.77	22.07	21.92	23.00
10	64QAM	1	49	21.77	22.07	21.93	23.00
10	64QAM	25	0	20.25	20.58	20.44	22.00
10	64QAM	25	12	20.34	20.58	20.47	22.00

10	64QAM	25	25	20.21	20.50	20.38	22.00
10	64QAM	50	0	20.14	20.46	20.30	22.00
Channel				26065	26340	26665	Tune-up limit
Frequency (MHz)				1852.5	1880	1912.5	(dBm)
5	QPSK	1	0	21.75	22.01	21.81	23.00
5	QPSK	1	12	21.68	21.95	21.80	23.00
5	QPSK	1	24	21.66	21.97	21.93	23.00
5	QPSK	12	0	21.58	21.95	21.82	23.00
5	QPSK	12	7	21.63	21.90	21.76	23.00
5	QPSK	12	13	21.77	21.91	21.81	23.00
5	QPSK	25	0	21.67	22.05	21.85	23.00
5	16QAM	1	0	21.64	21.96	21.92	23.00
5	16QAM	1	12	21.76	21.93	21.91	23.00
5	16QAM	1	24	21.61	21.98	21.92	23.00
5	16QAM	12	0	21.44	21.79	21.46	23.00
5	16QAM	12	7	21.32	21.56	21.44	23.00
5	16QAM	12	13	21.33	21.62	21.55	23.00
5	16QAM	25	0	21.31	21.64	21.49	23.00
5	64QAM	1	0	21.34	21.54	21.35	23.00
5	64QAM	1	12	21.76	22.05	21.92	23.00
5	64QAM	1	24	21.76	22.06	21.87	23.00
5	64QAM	12	0	20.20	20.57	20.37	22.00
5	64QAM	12	7	20.31	20.59	20.43	22.00
5	64QAM	12	13	20.26	20.59	20.29	22.00
5	64QAM	25	0	20.10	20.55	20.28	22.00
Channel				26055	26340	26675	Tune-up limit
Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	21.76	21.97	21.91	23.00
3	QPSK	1	8	21.68	21.84	21.80	23.00
3	QPSK	1	14	21.61	21.97	21.90	23.00
3	QPSK	8	0	21.60	21.95	21.89	23.00
3	QPSK	8	4	21.74	21.88	21.86	23.00
3	QPSK	8	7	21.70	21.93	21.80	23.00
3	QPSK	15	0	21.61	22.02	21.82	23.00
3	16QAM	1	0	21.64	22.02	21.92	23.00
3	16QAM	1	8	21.77	21.88	21.92	23.00
3	16QAM	1	14	21.67	21.94	21.79	23.00
3	16QAM	8	0	21.47	21.70	21.52	23.00
3	16QAM	8	4	21.27	21.57	21.37	23.00
3	16QAM	8	7	21.26	21.57	21.44	23.00
3	16QAM	15	0	21.30	21.60	21.41	23.00
3	64QAM	1	0	21.25	21.62	21.33	23.00
3	64QAM	1	8	21.76	22.07	21.92	23.00
3	64QAM	1	14	21.77	22.06	21.92	23.00
3	64QAM	8	0	20.31	20.61	20.42	22.00
3	64QAM	8	4	20.28	20.71	20.38	22.00
3	64QAM	8	7	20.20	20.55	20.28	22.00
3	64QAM	15	0	20.14	20.48	20.28	22.00
Channel				26047	26340	26683	Tune-up limit
Frequency (MHz)				1850.7	1880	1914.3	(dBm)
1.4	QPSK	1	0	21.62	21.95	21.82	23.00
1.4	QPSK	1	3	21.71	21.88	21.83	23.00
1.4	QPSK	1	5	21.71	22.04	21.93	23.00
1.4	QPSK	3	0	21.59	22.03	21.86	23.00
1.4	QPSK	3	1	21.68	21.89	21.88	23.00
1.4	QPSK	3	3	21.77	21.96	21.85	23.00
1.4	QPSK	6	0	21.67	22.02	21.82	23.00
1.4	16QAM	1	0	21.61	22.01	21.92	23.00
1.4	16QAM	1	3	21.75	21.85	21.92	23.00
1.4	16QAM	1	5	21.63	22.03	21.91	23.00
1.4	16QAM	3	0	21.54	21.71	21.52	23.00
1.4	16QAM	3	1	21.26	21.51	21.36	23.00
1.4	16QAM	3	3	21.29	21.66	21.41	23.00
1.4	16QAM	6	0	21.44	21.69	21.49	23.00
1.4	64QAM	1	0	21.32	21.62	21.29	23.00
1.4	64QAM	1	3	21.77	22.06	21.93	23.00
1.4	64QAM	1	5	21.76	22.02	21.92	23.00
1.4	64QAM	3	0	21.28	21.65	21.41	23.00
1.4	64QAM	3	1	21.36	21.62	21.45	23.00
1.4	64QAM	3	3	21.28	21.54	21.34	23.00
1.4	64QAM	6	0	20.15	20.56	20.27	22.00

【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	23.49	23.79	23.84	25.00
15	QPSK	1	37	23.41	23.75	23.73	25.00
15	QPSK	1	74	23.34	23.71	23.71	25.00
15	QPSK	36	0	22.23	22.57	22.57	24.00
15	QPSK	36	20	22.13	22.47	22.44	24.00
15	QPSK	36	39	22.24	22.54	22.46	24.00
15	QPSK	75	0	22.08	22.50	22.51	24.00
15	16QAM	1	0	22.23	22.64	22.55	24.00
15	16QAM	1	37	22.05	22.39	22.36	24.00
15	16QAM	1	74	22.07	22.40	22.36	24.00
15	16QAM	36	0	21.17	21.58	21.59	23.00
15	16QAM	36	20	21.23	21.55	21.50	23.00
15	16QAM	36	39	21.21	21.58	21.56	23.00
15	16QAM	75	0	21.21	21.55	21.46	23.00
15	64QAM	1	0	21.64	22.03	21.99	23.00
15	64QAM	1	37	21.72	22.01	22.01	23.00
15	64QAM	1	74	21.22	21.59	21.51	23.00
15	64QAM	36	0	20.30	20.66	20.65	22.00
15	64QAM	36	20	20.38	20.74	20.69	22.00
15	64QAM	36	39	20.13	20.54	20.52	22.00
15	64QAM	75	0	20.18	20.52	20.44	22.00
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.43	23.77	23.78	25.00
10	QPSK	1	25	23.27	23.60	23.69	25.00
10	QPSK	1	49	23.26	23.69	23.68	25.00
10	QPSK	25	0	22.11	22.55	22.46	24.00
10	QPSK	25	12	22.02	22.43	22.30	24.00
10	QPSK	25	25	22.16	22.50	22.41	24.00
10	QPSK	50	0	22.00	22.40	22.42	24.00
10	16QAM	1	0	22.16	22.54	22.52	24.00
10	16QAM	1	25	22.01	22.24	22.29	24.00
10	16QAM	1	49	22.06	22.32	22.22	24.00
10	16QAM	25	0	21.09	21.55	21.48	23.00
10	16QAM	25	12	21.20	21.46	21.49	23.00
10	16QAM	25	25	21.19	21.44	21.53	23.00
10	16QAM	50	0	21.11	21.43	21.35	23.00
10	64QAM	1	0	21.57	21.95	21.93	23.00
10	64QAM	1	25	21.63	21.94	21.87	23.00
10	64QAM	1	49	21.19	21.56	21.48	23.00
10	64QAM	25	0	20.16	20.64	20.53	22.00
10	64QAM	25	12	20.24	20.67	20.63	22.00
10	64QAM	25	25	20.02	20.46	20.48	22.00
10	64QAM	50	0	20.05	20.40	20.33	22.00
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.40	23.68	23.73	25.00
5	QPSK	1	12	23.27	23.71	23.64	25.00
5	QPSK	1	24	23.29	23.60	23.59	25.00
5	QPSK	12	0	22.22	22.52	22.51	24.00
5	QPSK	12	7	22.09	22.34	22.36	24.00
5	QPSK	12	13	22.18	22.44	22.33	24.00
5	QPSK	25	0	22.00	22.45	22.42	24.00
5	16QAM	1	0	22.19	22.54	22.46	24.00
5	16QAM	1	12	22.00	22.35	22.27	24.00
5	16QAM	1	24	22.01	22.25	22.26	24.00
5	16QAM	12	0	21.03	21.49	21.54	23.00
5	16QAM	12	7	21.13	21.42	21.42	23.00
5	16QAM	12	13	21.07	21.54	21.44	23.00
5	16QAM	25	0	21.10	21.51	21.40	23.00
5	64QAM	1	0	21.50	22.01	21.91	23.00
5	64QAM	1	12	21.58	21.96	21.87	23.00
5	64QAM	1	24	21.08	21.45	21.42	23.00
5	64QAM	12	0	20.20	20.54	20.63	22.00
5	64QAM	12	7	20.28	20.60	20.63	22.00
5	64QAM	12	13	20.04	20.51	20.38	22.00
5	64QAM	25	0	20.12	20.47	20.43	22.00
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.37	23.72	23.76	25.00
3	QPSK	1	8	23.28	23.60	23.64	25.00
3	QPSK	1	14	23.29	23.66	23.57	25.00
3	QPSK	8	0	22.17	22.47	22.42	24.00

3	QPSK	8	4	22.11	22.38	22.31	24.00
3	QPSK	8	7	22.15	22.51	22.37	24.00
3	QPSK	15	0	22.03	22.46	22.48	24.00
3	16QAM	1	0	22.16	22.50	22.51	24.00
3	16QAM	1	8	22.00	22.37	22.29	24.00
3	16QAM	1	14	22.01	22.34	22.25	24.00
3	16QAM	8	0	21.08	21.51	21.58	23.00
3	16QAM	8	4	21.10	21.50	21.44	23.00
3	16QAM	8	7	21.16	21.43	21.41	23.00
3	16QAM	15	0	21.13	21.44	21.32	23.00
3	64QAM	1	0	21.61	21.90	21.93	23.00
3	64QAM	1	8	21.64	21.89	21.94	23.00
3	64QAM	1	14	21.12	21.48	21.47	23.00
3	64QAM	8	0	20.23	20.56	20.59	22.00
3	64QAM	8	4	20.31	20.71	20.67	22.00
3	64QAM	8	7	20.03	20.53	20.50	22.00
3	64QAM	15	0	20.13	20.44	20.41	22.00
Channel				26697	26865	27033	Tune-up limit
Frequency (MHz)				814.7	831.5	848.3	(dBm)
1.4	QPSK	1	0	23.37	23.64	23.72	25.00
1.4	QPSK	1	3	23.33	23.60	23.69	25.00
1.4	QPSK	1	5	23.21	23.60	23.63	25.00
1.4	QPSK	3	0	23.12	23.46	23.48	25.00
1.4	QPSK	3	1	23.01	23.33	23.42	25.00
1.4	QPSK	3	3	23.21	23.42	23.45	25.00
1.4	QPSK	6	0	22.00	22.47	22.37	24.00
1.4	16QAM	1	0	22.22	22.58	22.44	24.00
1.4	16QAM	1	3	22.01	22.32	22.23	24.00
1.4	16QAM	1	5	22.00	22.27	22.32	24.00
1.4	16QAM	3	0	22.02	22.54	22.47	24.00
1.4	16QAM	3	1	22.10	22.52	22.37	24.00
1.4	16QAM	3	3	22.07	22.53	22.42	24.00
1.4	16QAM	6	0	21.07	21.48	21.34	23.00
1.4	64QAM	1	0	21.59	21.95	21.93	23.00
1.4	64QAM	1	3	21.63	21.87	22.00	23.00
1.4	64QAM	1	5	21.13	21.53	21.40	23.00
1.4	64QAM	3	0	21.17	21.55	21.58	23.00
1.4	64QAM	3	1	21.26	21.59	21.65	23.00
1.4	64QAM	3	3	21.01	21.44	21.51	23.00
1.4	64QAM	6	0	20.12	20.47	20.40	22.00

【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	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.89	23.14	23.32	23.31	23.24	24.00
20	QPSK	1	49	23.25	23.02	23.23	23.13	23.07	24.00
20	QPSK	1	99	22.79	22.92	23.14	23.05	22.94	24.00
20	QPSK	50	0	21.88	22.05	22.37	22.23	22.21	23.00
20	QPSK	50	24	22.12	22.10	22.31	22.21	22.13	23.00
20	QPSK	50	50	21.96	21.99	22.23	22.18	22.10	23.00
20	QPSK	100	0	22.05	22.05	22.25	22.11	22.08	23.00
20	16QAM	1	0	21.89	21.97	22.25	22.21	22.12	23.00
20	16QAM	1	49	22.00	21.81	22.09	22.07	21.96	23.00
20	16QAM	1	99	21.52	21.33	21.56	21.42	21.45	23.00
20	16QAM	50	0	20.81	20.85	21.16	21.03	21.04	22.00
20	16QAM	50	24	20.93	20.88	21.15	21.00	21.00	22.00
20	16QAM	50	50	20.83	21.01	21.19	21.09	21.01	22.00
20	16QAM	100	0	20.95	20.90	21.16	21.02	21.00	22.00
20	64QAM	1	0	20.13	20.28	20.52	20.44	20.35	22.00
20	64QAM	1	49	20.71	20.33	20.56	20.44	20.40	22.00
20	64QAM	1	99	20.13	20.08	20.33	20.21	20.16	22.00
20	64QAM	50	0	19.74	19.98	20.24	20.21	20.05	21.00
20	64QAM	50	24	20.12	19.97	20.25	20.12	20.13	21.00
20	64QAM	50	50	19.95	19.96	20.16	20.12	20.07	21.00
20	64QAM	100	0	19.90	19.88	20.09	20.01	19.95	21.00
Channel				39725	40173	40620	41068	41515	Tune-up limit
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	(dBm)
15	QPSK	1	0	22.81	23.02	23.18	23.26	23.16	24.00
15	QPSK	1	37	23.18	22.95	23.20	23.00	23.03	24.00

15	QPSK	1	74	22.66	22.83	23.02	22.98	22.87	24.00
15	QPSK	36	0	21.74	21.98	22.25	22.16	22.13	23.00
15	QPSK	36	20	21.98	22.03	22.23	22.10	21.99	23.00
15	QPSK	36	39	21.87	21.90	22.11	22.08	21.95	23.00
15	QPSK	75	0	21.99	21.98	22.23	22.08	22.00	23.00
15	16QAM	1	0	21.78	21.95	22.23	22.12	21.99	23.00
15	16QAM	1	37	21.97	21.79	21.96	22.02	21.93	23.00
15	16QAM	1	74	21.39	21.28	21.53	21.40	21.39	23.00
15	16QAM	36	0	20.76	20.79	21.03	20.91	20.98	22.00
15	16QAM	36	20	20.83	20.80	21.11	20.88	20.87	22.00
15	16QAM	36	39	20.75	20.87	21.15	20.96	20.96	22.00
15	16QAM	75	0	20.94	20.88	21.10	20.98	20.98	22.00
15	64QAM	1	0	20.06	20.20	20.42	20.29	20.29	22.00
15	64QAM	1	37	20.69	20.21	20.51	20.31	20.37	22.00
15	64QAM	1	74	20.01	20.06	20.32	20.18	20.06	22.00
15	64QAM	36	0	19.69	19.89	20.19	20.07	19.99	21.00
15	64QAM	36	20	20.11	19.86	20.15	20.09	20.08	21.00
15	64QAM	36	39	19.90	19.87	20.10	20.01	19.98	21.00
15	64QAM	75	0	19.76	19.78	19.99	19.93	19.81	21.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.83	23.10	23.21	23.28	23.14	24.00
10	QPSK	1	25	23.17	22.96	23.13	23.11	23.04	24.00
10	QPSK	1	49	22.76	22.89	23.03	23.02	22.86	24.00
10	QPSK	25	0	21.73	22.00	22.25	22.13	22.16	23.00
10	QPSK	25	12	22.02	22.05	22.21	22.07	22.00	23.00
10	QPSK	25	25	21.83	21.95	22.15	22.04	22.07	23.00
10	QPSK	50	0	21.95	21.95	22.22	22.02	22.03	23.00
10	16QAM	1	0	21.81	21.92	22.17	22.13	22.02	23.00
10	16QAM	1	25	21.95	21.72	22.08	21.94	21.93	23.00
10	16QAM	1	49	21.42	21.25	21.54	21.39	21.35	23.00
10	16QAM	25	0	20.66	20.82	21.14	20.90	20.91	22.00
10	16QAM	25	12	20.83	20.76	21.11	20.95	20.91	22.00
10	16QAM	25	25	20.82	20.90	21.15	21.05	20.92	22.00
10	16QAM	50	0	20.94	20.81	21.13	20.96	20.88	22.00
10	64QAM	1	0	20.00	20.21	20.51	20.39	20.26	22.00
10	64QAM	1	25	20.69	20.32	20.53	20.40	20.26	22.00
10	64QAM	1	49	20.02	20.05	20.31	20.14	20.10	22.00
10	64QAM	25	0	19.61	19.94	20.11	20.10	19.90	21.00
10	64QAM	25	12	19.99	19.88	20.17	20.07	20.07	21.00
10	64QAM	25	25	19.82	19.86	20.05	20.01	19.97	21.00
10	64QAM	50	0	19.84	19.86	19.97	19.88	19.88	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	23.06	23.29	23.17	23.16	24.00
5	QPSK	1	12	23.22	22.88	23.08	23.05	23.00	24.00
5	QPSK	1	24	22.65	22.84	22.99	22.93	22.81	24.00
5	QPSK	12	0	21.83	21.96	22.33	22.21	22.08	23.00
5	QPSK	12	7	22.10	21.95	22.22	22.08	22.05	23.00
5	QPSK	12	13	21.83	21.89	22.20	22.08	21.96	23.00
5	QPSK	25	0	22.03	21.98	22.18	21.98	22.03	23.00
5	16QAM	1	0	21.78	21.89	22.23	22.08	22.00	23.00
5	16QAM	1	12	21.98	21.77	22.04	22.05	21.86	23.00
5	16QAM	1	24	21.38	21.31	21.47	21.31	21.33	23.00
5	16QAM	12	0	20.74	20.84	21.08	20.93	20.89	22.00
5	16QAM	12	7	20.86	20.79	21.12	20.98	20.87	22.00
5	16QAM	12	13	20.70	20.89	21.18	20.98	20.99	22.00
5	16QAM	25	0	20.87	20.84	21.05	20.89	20.94	22.00
5	64QAM	1	0	20.12	20.24	20.47	20.38	20.32	22.00
5	64QAM	1	12	20.67	20.23	20.42	20.34	20.36	22.00
5	64QAM	1	24	20.04	20.02	20.20	20.12	20.02	22.00
5	64QAM	12	0	19.73	19.96	20.12	20.07	20.03	21.00
5	64QAM	12	7	20.02	19.83	20.20	20.01	20.11	21.00
5	64QAM	12	13	19.84	19.92	20.11	19.97	20.05	21.00
5	64QAM	25	0	19.81	19.81	20.05	19.96	19.88	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	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	21.02	21.61	20.88	22.00
20	QPSK	1	49	20.98	21.60	20.76	22.00
20	QPSK	1	99	20.99	21.50	20.78	22.00
20	QPSK	50	0	21.13	21.50	20.86	22.00
20	QPSK	50	24	21.07	21.49	20.69	22.00
20	QPSK	50	50	21.12	21.49	20.77	22.00
20	QPSK	100	0	21.14	21.60	20.79	22.00
20	16QAM	1	0	21.01	21.49	20.84	22.00
20	16QAM	1	49	21.00	21.46	20.74	22.00
20	16QAM	1	99	21.03	21.60	20.78	22.00
20	16QAM	50	0	20.73	21.29	20.50	22.00
20	16QAM	50	24	20.79	21.26	20.44	22.00
20	16QAM	50	50	20.81	21.28	20.48	22.00
20	16QAM	100	0	20.72	21.22	20.49	22.00
20	64QAM	1	0	20.66	21.17	20.44	22.00
20	64QAM	1	49	21.29	21.77	20.93	22.00
20	64QAM	1	99	20.75	21.19	20.39	22.00
20	64QAM	50	0	19.76	20.26	19.50	21.00
20	64QAM	50	24	19.80	20.27	19.58	21.00
20	64QAM	50	50	19.79	20.25	19.47	21.00
20	64QAM	100	0	19.75	20.22	19.46	21.00
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.97	21.53	20.61	22.00
15	QPSK	1	37	20.92	21.46	20.61	22.00
15	QPSK	1	74	20.87	21.43	20.66	22.00
15	QPSK	36	0	20.91	21.46	20.67	22.00
15	QPSK	36	20	20.98	21.43	20.57	22.00
15	QPSK	36	39	21.02	21.35	20.66	22.00
15	QPSK	75	0	21.01	21.46	20.66	22.00
15	16QAM	1	0	20.99	21.40	20.68	22.00
15	16QAM	1	37	20.93	21.39	20.68	22.00
15	16QAM	1	74	20.92	21.56	20.66	22.00
15	16QAM	36	0	20.59	21.20	20.47	22.00
15	16QAM	36	20	20.65	21.16	20.37	22.00
15	16QAM	36	39	20.73	21.20	20.36	22.00
15	16QAM	75	0	20.70	21.09	20.42	22.00
15	64QAM	1	0	20.54	21.11	20.38	22.00
15	64QAM	1	37	21.00	21.60	20.67	22.00
15	64QAM	1	74	20.63	21.09	20.26	22.00
15	64QAM	36	0	19.62	20.23	19.35	21.00
15	64QAM	36	20	19.73	20.18	19.50	21.00
15	64QAM	36	39	19.68	20.11	19.38	21.00
15	64QAM	75	0	19.71	20.14	19.41	21.00
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.94	21.47	20.66	22.00
10	QPSK	1	25	20.85	21.49	20.68	22.00
10	QPSK	1	49	20.92	21.42	20.67	22.00
10	QPSK	25	0	20.99	21.36	20.63	22.00
10	QPSK	25	12	20.97	21.39	20.67	22.00
10	QPSK	25	25	21.01	21.45	20.68	22.00
10	QPSK	50	0	21.01	21.57	20.68	22.00
10	16QAM	1	0	20.94	21.46	20.67	22.00
10	16QAM	1	25	20.95	21.44	20.66	22.00
10	16QAM	1	49	20.91	21.49	20.67	22.00
10	16QAM	25	0	20.60	21.16	20.35	22.00
10	16QAM	25	12	20.72	21.18	20.42	22.00
10	16QAM	25	25	20.76	21.20	20.38	22.00
10	16QAM	50	0	20.59	21.09	20.46	22.00
10	64QAM	1	0	20.60	21.08	20.31	22.00
10	64QAM	1	25	21.02	21.60	20.66	22.00
10	64QAM	1	49	20.67	21.05	20.24	22.00
10	64QAM	25	0	19.65	20.13	19.44	21.00
10	64QAM	25	12	19.74	20.18	19.48	21.00
10	64QAM	25	25	19.65	20.14	19.45	21.00
10	64QAM	50	0	19.64	20.17	19.44	21.00
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.94	21.53	20.63	22.00

5	QPSK	1	12	20.86	21.56	20.65	22.00
5	QPSK	1	24	20.88	21.36	20.68	22.00
5	QPSK	12	0	20.91	21.46	20.66	22.00
5	QPSK	12	7	21.01	21.37	20.59	22.00
5	QPSK	12	13	20.97	21.36	20.66	22.00
5	QPSK	25	0	21.02	21.50	20.68	22.00
5	16QAM	1	0	20.98	21.42	20.67	22.00
5	16QAM	1	12	20.85	21.42	20.63	22.00
5	16QAM	1	24	20.92	21.45	20.66	22.00
5	16QAM	12	0	20.62	21.25	20.48	22.00
5	16QAM	12	7	20.72	21.19	20.34	22.00
5	16QAM	12	13	20.68	21.21	20.41	22.00
5	16QAM	25	0	20.61	21.20	20.43	22.00
5	64QAM	1	0	20.52	21.10	20.30	22.00
5	64QAM	1	12	21.01	21.59	20.68	22.00
5	64QAM	1	24	20.72	21.17	20.24	22.00
5	64QAM	12	0	19.66	20.25	19.36	21.00
5	64QAM	12	7	19.75	20.19	19.43	21.00
5	64QAM	12	13	19.65	20.17	19.40	21.00
5	64QAM	25	0	19.64	20.09	19.44	21.00
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	20.93	21.52	20.63	22.00
3	QPSK	1	8	20.87	21.46	20.63	22.00
3	QPSK	1	14	20.99	21.43	20.68	22.00
3	QPSK	8	0	20.94	21.39	20.63	22.00
3	QPSK	8	4	21.02	21.37	20.63	22.00
3	QPSK	8	7	21.02	21.47	20.65	22.00
3	QPSK	15	0	21.02	21.46	20.68	22.00
3	16QAM	1	0	20.89	21.40	20.66	22.00
3	16QAM	1	8	20.98	21.39	20.66	22.00
3	16QAM	1	14	20.89	21.56	20.64	22.00
3	16QAM	8	0	20.58	21.22	20.41	22.00
3	16QAM	8	4	20.67	21.12	20.35	22.00
3	16QAM	8	7	20.71	21.16	20.45	22.00
3	16QAM	15	0	20.67	21.15	20.39	22.00
3	64QAM	1	0	20.56	21.09	20.35	22.00
3	64QAM	1	8	21.00	21.61	20.68	22.00
3	64QAM	1	14	20.66	21.05	20.24	22.00
3	64QAM	8	0	19.65	20.25	19.45	21.00
3	64QAM	8	4	19.78	20.15	19.43	21.00
3	64QAM	8	7	19.68	20.13	19.40	21.00
3	64QAM	15	0	19.68	20.14	19.32	21.00
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	20.92	21.60	20.63	22.00
1.4	QPSK	1	3	20.91	21.54	20.67	22.00
1.4	QPSK	1	5	20.92	21.39	20.68	22.00
1.4	QPSK	3	0	20.90	21.45	20.67	22.00
1.4	QPSK	3	1	20.94	21.47	20.60	22.00
1.4	QPSK	3	3	21.01	21.41	20.66	22.00
1.4	QPSK	6	0	21.02	21.58	20.65	22.00
1.4	16QAM	1	0	20.92	21.36	20.66	22.00
1.4	16QAM	1	3	20.99	21.33	20.59	22.00
1.4	16QAM	1	5	21.01	21.59	20.68	22.00
1.4	16QAM	3	0	20.71	21.24	20.44	22.00
1.4	16QAM	3	1	20.77	21.24	20.36	22.00
1.4	16QAM	3	3	20.66	21.25	20.38	22.00
1.4	16QAM	6	0	20.63	21.07	20.36	22.00
1.4	64QAM	1	0	20.57	21.07	20.43	22.00
1.4	64QAM	1	3	21.00	21.60	20.68	22.00
1.4	64QAM	1	5	20.67	21.18	20.36	22.00
1.4	64QAM	3	0	19.63	20.12	19.43	21.00
1.4	64QAM	3	1	19.69	20.20	19.55	21.00
1.4	64QAM	3	3	19.67	20.21	19.34	21.00
1.4	64QAM	6	0	19.65	20.14	19.41	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	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.38	23.16	22.62	24.00
20	QPSK	1	49	23.31	23.13	22.57	24.00
20	QPSK	1	99	22.96	22.80	22.21	24.00
20	QPSK	50	0	21.83	21.74	21.09	23.00
20	QPSK	50	24	21.71	21.64	21.01	23.00
20	QPSK	50	50	21.58	21.47	21.01	23.00
20	QPSK	100	0	21.81	21.64	21.02	23.00
20	16QAM	1	0	22.07	21.96	21.41	23.00
20	16QAM	1	49	21.62	21.45	21.00	23.00
20	16QAM	1	99	21.32	21.20	21.01	23.00
20	16QAM	50	0	20.91	20.83	20.23	22.00
20	16QAM	50	24	20.70	20.64	20.01	22.00
20	16QAM	50	50	20.56	20.45	20.01	22.00
20	16QAM	100	0	20.57	20.48	20.00	22.00
20	64QAM	1	0	21.12	21.04	20.42	22.00
20	64QAM	1	49	21.42	21.30	20.76	22.00
20	64QAM	1	99	20.71	20.62	20.08	22.00
20	64QAM	50	0	19.84	19.73	19.24	21.00
20	64QAM	50	24	19.75	19.62	19.06	21.00
20	64QAM	50	50	19.67	19.50	19.00	21.00
20	64QAM	100	0	19.72	19.67	19.16	21.00
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.27	23.11	22.61	24.00
15	QPSK	1	37	23.20	23.03	22.45	24.00
15	QPSK	1	74	22.85	22.69	22.17	24.00
15	QPSK	36	0	21.69	21.67	21.00	23.00
15	QPSK	36	20	21.64	21.62	21.00	23.00
15	QPSK	36	39	21.51	21.34	21.00	23.00
15	QPSK	75	0	21.80	21.52	21.00	23.00
15	16QAM	1	0	22.03	21.93	21.27	23.00
15	16QAM	1	37	21.59	21.35	21.02	23.00
15	16QAM	1	74	21.17	21.15	21.00	23.00
15	16QAM	36	0	20.79	20.72	20.20	22.00
15	16QAM	36	20	20.56	20.50	20.01	22.00
15	16QAM	36	39	20.41	20.39	20.01	22.00
15	16QAM	75	0	20.53	20.46	20.02	22.00
15	64QAM	1	0	21.01	20.92	20.36	22.00
15	64QAM	1	37	21.33	21.19	20.63	22.00
15	64QAM	1	74	20.56	20.57	20.01	22.00
15	64QAM	36	0	19.78	19.62	19.15	21.00
15	64QAM	36	20	19.62	19.61	19.00	21.00
15	64QAM	36	39	19.62	19.47	19.01	21.00
15	64QAM	75	0	19.66	19.53	19.14	21.00
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	23.30	23.15	22.56	24.00
10	QPSK	1	25	23.20	23.01	22.43	24.00
10	QPSK	1	49	22.83	22.75	22.19	24.00
10	QPSK	25	0	21.73	21.70	21.00	23.00
10	QPSK	25	12	21.60	21.58	21.00	23.00
10	QPSK	25	25	21.57	21.43	21.01	23.00
10	QPSK	50	0	21.76	21.53	21.01	23.00
10	16QAM	1	0	22.05	21.87	21.31	23.00
10	16QAM	1	25	21.52	21.43	21.00	23.00
10	16QAM	1	49	21.30	21.11	21.00	23.00
10	16QAM	25	0	20.84	20.81	20.12	22.00
10	16QAM	25	12	20.65	20.60	20.00	22.00
10	16QAM	25	25	20.41	20.40	20.00	22.00
10	16QAM	50	0	20.49	20.38	20.00	22.00
10	64QAM	1	0	20.99	20.99	20.41	22.00
10	64QAM	1	25	21.31	21.23	20.65	22.00
10	64QAM	1	49	20.60	20.55	20.02	22.00
10	64QAM	25	0	19.73	19.71	19.17	21.00
10	64QAM	25	12	19.67	19.52	19.01	21.00
10	64QAM	25	25	19.63	19.41	19.00	21.00
10	64QAM	50	0	19.62	19.62	19.04	21.00
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	

5	QPSK	1	0	23.28	23.03	22.54	24.00
5	QPSK	1	12	23.23	23.12	22.47	24.00
5	QPSK	1	24	22.81	22.79	22.06	24.00
5	QPSK	12	0	21.81	21.70	21.00	23.00
5	QPSK	12	7	21.59	21.55	21.00	23.00
5	QPSK	12	13	21.48	21.37	21.00	23.00
5	QPSK	25	0	21.68	21.62	21.01	23.00
5	16QAM	1	0	22.05	21.85	21.38	23.00
5	16QAM	1	12	21.54	21.35	21.00	23.00
5	16QAM	1	24	21.28	21.09	21.01	23.00
5	16QAM	12	0	20.84	20.82	20.21	22.00
5	16QAM	12	7	20.58	20.52	20.00	22.00
5	16QAM	12	13	20.47	20.40	20.00	22.00
5	16QAM	25	0	20.53	20.39	20.00	22.00
5	64QAM	1	0	21.04	21.02	20.31	22.00
5	64QAM	1	12	21.36	21.24	20.65	22.00
5	64QAM	1	24	20.66	20.52	20.01	22.00
5	64QAM	12	0	19.73	19.67	19.20	21.00
5	64QAM	12	7	19.72	19.52	19.00	21.00
5	64QAM	12	13	19.65	19.37	19.01	21.00
5	64QAM	25	0	19.70	19.57	19.13	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	12.75	14.00	76.75
	39	2441	12.80	14.00	
	78	2480	12.22	14.00	
BR / EDR 2Mbps	0	2402	10.16	11.50	31.02
	39	2441	10.16	11.50	
	78	2480	10.05	11.50	
BR / EDR 3Mbps	0	2402	10.16	11.50	31.02
	39	2441	10.17	11.50	
	78	2480	10.05	11.50	
LE 1Mbps	0	2402	8.10	9.50	62.18
	19	2440	8.14	9.50	
	39	2480	8.16	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	16.85	18.00	98.62
	6	2437	13.90	15.00	
	11	2462	16.87	18.00	
802.11g 6Mbps	1	2412	13.60	15.00	97.93
	6	2437	12.90	14.00	
	11	2462	13.65	15.00	
802.11n-HT20 MCS0	1	2412	13.40	15.00	98.52
	6	2437	12.68	14.00	
	11	2462	13.49	15.00	
802.11n-HT40 MCS0	3	2422	8.87	10.00	94.93
	4	2427	7.33	8.50	
	5	2432	13.85	15.00	
	6	2437	13.70	15.00	
	9	2452	13.26	14.50	

【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	98.28
	40	5200	15.31	17.00	
	44	5220	15.41	17.00	
	48	5240	15.41	17.00	
802.11n-HT20 MCS0	36	5180	14.06	15.50	97.43
	40	5200	14.24	15.50	
	44	5220	14.35	16.00	
	48	5240	14.36	16.00	
802.11n-HT40 MCS0	38	5190	15.30	16.00	96.32
	46	5230	14.59	16.00	
802.11ac-VHT20 MCS0	36	5180	13.24	14.50	98.15
	40	5200	13.53	15.00	
	44	5220	13.51	15.00	
	48	5240	13.41	15.00	
802.11ac-VHT40 MCS0	38	5190	11.74	13.50	96.35
	46	5230	12.13	13.50	
802.11ac-VHT80 MCS0	42	5210	11.57	13.00	92.71

【5.3GHz WLAN】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	52	5260	15.45	17.00	98.28
	56	5280	15.52	17.00	
	60	5300	15.51	17.00	
	64	5320	15.57	17.00	
802.11n-HT20 MCS0	52	5260	14.46	16.00	97.43
	56	5280	14.52	16.00	
	60	5300	14.51	16.00	
	64	5320	14.69	16.00	
802.11n-HT40 MCS0	54	5270	14.70	16.00	96.32
	62	5310	12.31	14.00	
802.11ac-VHT20 MCS0	52	5260	13.52	15.00	98.15
	56	5280	13.51	15.00	
	60	5300	13.45	15.00	
	64	5320	13.69	15.00	
802.11ac-VHT40 MCS0	54	5270	12.07	13.50	96.35
	62	5310	12.26	13.50	
802.11ac-VHT80 MCS0	58	5290	9.96	11.50	92.71

【5.5GHz WLAN】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	100	5500	15.37	16.50	98.28
	116	5580	15.34	16.50	
	124	5620	15.09	16.50	
	132	5660	14.61	16.00	
	144	5720	14.40	15.50	
802.11n-HT20 MCS0	100	5500	14.64	16.00	97.43
	116	5580	14.63	16.00	
	124	5620	14.35	15.50	
	132	5660	13.87	15.00	
	144	5720	13.70	15.00	
802.11n-HT40 MCS0	102	5510	13.97	15.00	96.32
	110	5550	14.92	16.00	
	126	5630	14.37	15.50	
	134	5670	13.92	15.00	
	142	5710	13.45	14.50	
802.11ac-VHT20 MCS0	100	5500	13.13	14.00	98.15
	116	5580	13.06	14.00	
	124	5620	12.80	14.00	
	132	5660	12.34	13.50	
802.11ac-VHT40 MCS0	144	5720	11.60	12.50	96.35
	102	5510	12.15	13.00	
	110	5550	12.17	13.00	
	126	5630	11.59	12.50	
802.11ac-VHT80 MCS0	134	5670	11.05	12.00	92.71
	142	5710	10.61	11.50	
	106	5530	11.39	12.50	
	122	5610	11.49	12.50	
	138	5690	10.47	11.50	

【5.8GHz WLAN】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	14.34	16.00	98.28
	157	5785	14.22	16.00	
	165	5825	14.94	16.50	
802.11n-HT20 MCS0	149	5745	13.45	15.00	97.43
	157	5785	14.38	16.00	
	165	5825	16.55	18.00	
802.11n-HT40 MCS0	151	5755	13.10	14.50	96.32
	159	5795	13.37	15.00	
802.11ac-VHT20 MCS0	149	5745	11.25	12.50	98.15
	157	5785	11.62	13.00	
	165	5825	12.12	13.50	
802.11ac-VHT40 MCS0	151	5755	10.19	11.50	96.35
	159	5795	10.38	11.50	
802.11ac-VHT80 MCS0	155	5775	9.64	11.00	92.71