

8 CONDUCTED RF OUTPUT POWER

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8.1 GSM Output Power

GSM-Full Power-Ant.0								
GSM850 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power			Tune-up
Channel	128	190	251	Power(dBm)	128	190	251	Power(dBm)
GSM (GMSK, 1-Slot)	32.71	32.82	32.84	33.50	23.52	23.63	23.65	24.31
GPRS (GMSK, 1-Slot)	32.71	32.81	32.84	33.50	23.52	23.62	23.65	24.31
GPRS (GMSK, 2-Slots)	31.94	32.04	32.07	32.50	25.81	25.91	25.94	26.37
GPRS (GMSK, 3-Slots)	30.17	30.26	30.29	30.50	25.75	25.84	25.87	26.08
GPRS (GMSK, 4-Slots)	29.08	29.20	29.24	29.50	25.90	26.02	26.06	26.32
EGPRS (8PSK, 1-Slot)	26.40	26.46	26.56	28.00	17.21	17.27	17.37	18.81
EGPRS (8PSK, 2-Slots)	25.19	25.16	25.32	26.00	19.06	19.03	19.19	19.87
EGPRS (8PSK, 3-Slots)	22.33	22.16	22.71	24.00	17.91	17.74	18.29	19.58
EGPRS (8PSK, 4-Slots)	20.80	21.25	21.10	22.50	17.62	18.07	17.92	19.32
GSM-Full Power-Ant.1								
GSM1900 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged			Tune-up
Channel	512	661	810	Power(dBm)	512	661	810	Power(dBm)
GSM (GMSK, 1-Slot)	16.22	16.21	16.16	17.00	7.03	7.02	6.97	7.81
GPRS (GMSK, 1-Slot)	16.28	16.22	16.15	17.00	7.09	7.03	6.96	7.81
GPRS (GMSK, 2-Slots)	16.32	16.26	16.20	17.00	10.19	10.13	10.07	10.87
GPRS (GMSK, 3-Slots)	16.34	16.28	16.22	17.00	11.92	11.86	11.80	12.58
GPRS (GMSK, 4-Slots)	16.35	16.29	16.23	17.00	13.17	13.11	13.05	13.82
EGPRS (8PSK, 1-Slot)	19.26	19.47	19.59	20.00	10.07	10.28	10.40	10.81
EGPRS (8PSK, 2-Slots)	17.86	18.06	18.15	19.00	11.73	11.93	12.02	12.87
EGPRS (8PSK, 3-Slots)	15.53	15.63	15.59	16.00	11.11	11.21	11.17	11.58
EGPRS (8PSK, 4-Slots)	13.90	14.05	14.50	15.00	10.72	10.87	11.32	11.82

8.2 WCDMA Output Power

WCDMA-Full Power-Ant.1				
Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
AMR 12.2Kbps	19.40	19.42	19.34	20.50
RMC 12.2Kbps	19.56	19.74	19.45	20.50
HSDPA Subtest-1	18.55	18.47	18.43	19.50
HSDPA Subtest-2	18.69	18.53	18.37	19.50
HSDPA Subtest-3	18.23	18.04	17.97	19.50
HSDPA Subtest-4	18.20	18.03	17.83	19.50
HSUPA Subtest-1	16.56	16.73	16.68	18.50
HSUPA Subtest-2	16.51	16.53	16.65	17.50
HSUPA Subtest-3	17.42	17.54	17.64	18.50
HSUPA Subtest-4	15.94	16.05	16.17	17.50
HSUPA Subtest-5	17.30	17.50	17.37	18.50
HSPA+	16.51	16.37	16.65	17.50
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
AMR 12.2Kbps	19.11	18.85	19.01	20.50
RMC 12.2Kbps	19.20	19.00	19.14	20.50
HSDPA Subtest-1	18.00	18.20	18.23	19.50
HSDPA Subtest-2	18.05	18.25	18.15	19.50
HSDPA Subtest-3	17.69	17.77	17.60	19.00
HSDPA Subtest-4	17.65	17.80	17.72	19.00
HSUPA Subtest-1	16.55	16.70	16.52	18.50
HSUPA Subtest-2	16.25	16.18	16.37	17.50
HSUPA Subtest-3	17.34	17.16	17.29	18.50
HSUPA Subtest-4	15.91	15.72	15.88	17.50
HSUPA Subtest-5	16.99	17.18	17.21	18.50
HSPA+	16.09	16.30	16.30	17.50
WCDMA-Full Power-Ant.0				
Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
AMR 12.2Kbps	23.24	23.21	23.10	24.00
RMC 12.2Kbps	23.24	23.22	23.10	24.00
HSDPA Subtest-1	22.27	22.23	22.16	23.00
HSDPA Subtest-2	22.27	22.23	22.17	23.00
HSDPA Subtest-3	21.82	21.78	21.70	22.00
HSDPA Subtest-4	21.80	21.75	21.64	22.00
HSUPA Subtest-1	20.26	20.22	20.16	21.00
HSUPA Subtest-2	20.24	20.23	20.17	21.00
HSUPA Subtest-3	21.27	21.23	21.17	22.00
HSUPA Subtest-4	19.77	19.74	19.68	20.00
HSUPA Subtest-5	21.25	21.22	21.14	21.50
HSPA+	20.09	20.23	20.30	21.00

8.3.1 LTE Band2 Output Power

LTE B2-Full Power -Ant.1							
Bandwidth (MHz)	RB Size	RB offset	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	QPSK	19.11	19.03	18.91	19.50
		MID	QPSK	19.15	19.22	19.15	19.50
		HIGH	QPSK	19.09	19.10	18.85	19.50
	3	LOW	QPSK	19.02	18.98	18.96	19.50
		MID	QPSK	19.29	19.35	19.19	19.50
		HIGH	QPSK	19.21	19.29	19.06	19.50
	6	LOW	QPSK	18.04	18.28	17.93	18.50
	1.4	LOW	Q16	18.33	18.40	18.45	18.50
		MID	Q16	18.39	18.29	18.49	18.50
		HIGH	Q16	18.23	18.42	18.44	18.50
		LOW	Q16	18.40	18.32	18.33	18.50
		MID	Q16	18.36	18.25	18.26	18.50
		HIGH	Q16	18.48	18.31	18.46	18.50
	6	LOW	Q16	16.97	17.16	17.08	17.50
1.4	1	LOW	64QAM	17.41	17.47	17.44	17.50
		MID	64QAM	17.39	17.11	17.33	17.50
		HIGH	64QAM	17.33	17.44	17.50	17.50
	3	LOW	64QAM	17.27	17.39	17.40	17.50
		MID	64QAM	17.31	17.15	17.25	17.50
		HIGH	64QAM	17.26	17.38	17.47	17.50
	6	LOW	64QAM	16.04	16.04	15.88	16.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	QPSK	18.98	19.04	18.96	19.50
		MID	QPSK	19.07	19.16	19.13	19.50
		HIGH	QPSK	19.08	19.21	18.92	19.50
	8	LOW	QPSK	18.06	18.13	18.12	18.50
		MID	QPSK	18.22	18.22	18.01	18.50
		HIGH	QPSK	18.05	18.27	18.07	18.50
	15	LOW	QPSK	17.96	18.29	18.04	18.50
	3	LOW	Q16	18.42	18.43	18.50	18.50
		MID	Q16	18.33	18.22	18.46	18.50
		HIGH	Q16	18.34	18.42	18.48	18.50
		LOW	Q16	17.08	17.09	16.94	17.50
		MID	Q16	17.19	17.11	17.04	17.50
		HIGH	Q16	17.13	17.22	17.02	17.50
	15	LOW	Q16	16.96	17.15	17.15	17.50
3	1	LOW	64QAM	17.46	17.25	17.44	17.50
		MID	64QAM	17.30	17.29	17.31	17.50
		HIGH	64QAM	17.31	17.39	17.48	17.50
	8	LOW	64QAM	16.16	16.31	16.11	16.50
		MID	64QAM	16.15	16.22	15.86	16.50
		HIGH	64QAM	16.07	16.07	15.95	16.50
	15	LOW	64QAM	15.95	16.24	16.01	16.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	QPSK	19.04	19.18	19.04	19.50
		MID	QPSK	19.08	19.31	19.05	19.50
		HIGH	QPSK	18.98	19.18	18.89	19.50
	12	LOW	QPSK	18.00	18.26	18.03	18.50
		MID	QPSK	18.13	18.22	18.15	18.50
		HIGH	QPSK	18.05	18.24	18.00	18.50
	25	LOW	QPSK	17.93	18.28	18.06	18.50
	5	LOW	Q16	18.36	18.29	18.35	18.50
		MID	Q16	18.37	18.22	18.27	18.50
		HIGH	Q16	18.33	18.36	18.33	18.50
		LOW	Q16	17.16	17.24	17.08	17.50
		MID	Q16	17.08	17.25	17.07	17.50
		HIGH	Q16	17.02	17.05	16.87	17.50
	25	LOW	Q16	17.00	17.04	16.95	17.50
5	1	LOW	64QAM	17.35	17.17	17.47	17.50
		MID	64QAM	17.50	17.25	17.34	17.50
		HIGH	64QAM	17.47	17.35	17.43	17.50
	12	LOW	64QAM	16.06	16.22	16.04	16.50
		MID	64QAM	16.29	16.21	15.97	16.50
		HIGH	64QAM	15.89	16.19	16.01	16.50
	25	LOW	64QAM	16.17	16.36	15.93	16.50

LTE B2-Full Power -Ant.1							
Bandwidth (MHz)	RB Size	RB offset	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	QPSK	18.94	19.16	19.08	19.50
		MID	QPSK	19.27	19.22	19.03	19.50
		HIGH	QPSK	19.09	19.10	18.98	19.50
	25	LOW	QPSK	18.05	18.09	18.20	18.50
		MID	QPSK	17.99	18.26	17.99	18.50
		HIGH	QPSK	18.19	18.10	18.09	18.50
	50	LOW	QPSK	18.10	18.29	17.94	18.50
10	1	LOW	Q16	18.47	18.34	18.47	18.50
		MID	Q16	18.42	18.21	18.43	18.50
		HIGH	Q16	18.30	18.37	18.35	18.50
	25	LOW	Q16	17.08	17.20	17.13	17.50
		MID	Q16	17.13	17.12	17.14	17.50
		HIGH	Q16	17.15	17.24	17.04	17.50
	50	LOW	Q16	16.95	17.16	17.00	17.50
10	1	LOW	64QAM	17.31	17.35	17.49	17.50
		MID	64QAM	17.20	17.15	17.36	17.50
		HIGH	64QAM	17.38	17.41	17.30	17.50
	25	LOW	64QAM	16.22	16.22	16.17	16.50
		MID	64QAM	16.23	16.05	15.81	16.50
		HIGH	64QAM	16.28	16.16	16.16	16.50
	50	LOW	64QAM	16.15	16.10	16.28	16.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	QPSK	19.00	19.15	19.10	19.50
		MID	QPSK	19.10	19.14	19.09	19.50
		HIGH	QPSK	19.02	19.09	18.92	19.50
	36	LOW	QPSK	17.99	18.08	17.99	18.50
		MID	QPSK	18.22	18.17	18.19	18.50
		HIGH	QPSK	17.99	18.28	17.95	18.50
	75	LOW	QPSK	18.03	18.10	18.03	18.50
15	1	LOW	Q16	18.50	18.41	18.36	18.50
		MID	Q16	18.41	18.30	18.31	18.50
		HIGH	Q16	18.30	18.45	18.40	18.50
	36	LOW	Q16	17.00	17.09	17.03	17.50
		MID	Q16	17.19	17.29	17.04	17.50
		HIGH	Q16	17.09	17.14	16.97	17.50
	75	LOW	Q16	17.00	17.07	16.99	17.50
15	1	LOW	64QAM	17.40	17.29	17.40	17.50
		MID	64QAM	17.50	17.43	17.41	17.50
		HIGH	64QAM	17.31	17.25	17.38	17.50
	36	LOW	64QAM	16.15	16.20	16.26	16.50
		MID	64QAM	15.95	16.17	16.10	16.50
		HIGH	64QAM	16.16	16.17	16.03	16.50
	75	LOW	64QAM	16.02	16.12	16.08	16.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	QPSK	19.00	19.11	19.00	19.50
		MID	QPSK	19.15	19.25	19.11	19.50
		HIGH	QPSK	19.07	19.14	19.00	19.50
	50	LOW	QPSK	18.05	18.19	18.09	18.50
		MID	QPSK	18.10	18.18	18.09	18.50
		HIGH	QPSK	18.09	18.17	18.03	18.50
	100	LOW	QPSK	18.05	18.17	18.05	18.50
20	1	LOW	Q16	18.44	18.33	18.43	18.50
		MID	Q16	18.43	18.33	18.35	18.50
		HIGH	Q16	18.36	18.48	18.43	18.50
	50	LOW	Q16	17.08	17.20	17.05	17.50
		MID	Q16	17.13	17.18	17.04	17.50
		HIGH	Q16	17.12	17.15	16.94	17.50
	100	LOW	Q16	17.05	17.16	17.05	17.50
20	1	LOW	64QAM	17.41	17.42	17.36	17.50
		MID	64QAM	17.47	17.22	17.20	17.50
		HIGH	64QAM	17.47	17.49	17.50	17.50
	50	LOW	64QAM	16.19	16.26	16.17	16.50
		MID	64QAM	16.14	16.06	15.92	16.50
		HIGH	64QAM	16.17	16.12	15.94	16.50
	100	LOW	64QAM	15.91	16.06	16.01	16.50

8.3.2 LTE Band4 Output Power

LTE B4-Full Power -Ant.1							
Bandwidth (MHz)	RB Size	RB offset	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	QPSK	19.28	19.25	19.22	19.50
		MID	QPSK	19.33	19.45	19.44	19.50
		HIGH	QPSK	19.46	19.27	19.24	19.50
	3	LOW	QPSK	19.24	19.19	19.20	19.50
		MID	QPSK	19.47	19.38	19.43	19.50
		HIGH	QPSK	19.37	19.37	19.26	19.50
	6	LOW	QPSK	18.41	18.31	18.32	18.50
1.4	1	LOW	Q16	18.76	18.77	18.71	19.00
		MID	Q16	18.87	18.81	18.98	19.00
		HIGH	Q16	18.79	18.80	18.80	19.00
	3	LOW	Q16	18.72	18.58	18.64	19.00
		MID	Q16	18.94	18.84	18.93	19.00
		HIGH	Q16	18.65	18.77	18.91	19.00
	6	LOW	Q16	17.32	17.36	17.37	17.50
1.4	1	LOW	64QAM	17.42	17.35	17.33	17.50
		MID	64QAM	17.45	17.21	17.33	17.50
		HIGH	64QAM	17.32	17.42	17.42	17.50
	3	LOW	64QAM	17.46	17.17	17.32	17.50
		MID	64QAM	17.48	17.20	17.48	17.50
		HIGH	64QAM	17.08	17.49	17.33	17.50
	6	LOW	64QAM	16.19	16.35	16.34	16.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	QPSK	19.22	19.20	19.36	19.50
		MID	QPSK	19.41	19.35	19.39	19.50
		HIGH	QPSK	19.22	19.29	19.32	19.50
	8	LOW	QPSK	18.27	18.47	18.21	18.50
		MID	QPSK	18.39	18.36	18.32	18.50
		HIGH	QPSK	18.39	18.26	18.46	18.50
	15	LOW	QPSK	18.42	18.41	18.35	18.50
3	1	LOW	Q16	18.92	18.61	18.87	19.00
		MID	Q16	18.91	18.74	18.99	19.00
		HIGH	Q16	18.72	18.70	18.81	19.00
	8	LOW	Q16	17.18	17.32	17.38	17.50
		MID	Q16	17.35	17.31	17.24	17.50
		HIGH	Q16	17.25	17.40	17.30	17.50
	15	LOW	Q16	17.33	17.33	17.35	17.50
3	1	LOW	64QAM	17.34	17.11	17.48	17.50
		MID	64QAM	17.47	17.36	17.34	17.50
		HIGH	64QAM	17.43	17.28	17.34	17.50
	8	LOW	64QAM	16.14	16.50	16.14	16.50
		MID	64QAM	16.29	16.49	16.33	16.50
		HIGH	64QAM	16.38	16.27	16.35	16.50
	15	LOW	64QAM	16.35	16.36	16.41	16.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	QPSK	19.41	19.37	19.26	19.50
		MID	QPSK	19.34	19.38	19.39	19.50
		HIGH	QPSK	19.41	19.45	19.21	19.50
	12	LOW	QPSK	18.35	18.31	18.33	18.50
		MID	QPSK	18.42	18.30	18.40	18.50
		HIGH	QPSK	18.39	18.31	18.35	18.50
	25	LOW	QPSK	18.41	18.17	18.45	18.50
5	1	LOW	Q16	18.88	18.74	18.76	19.00
		MID	Q16	18.88	18.82	18.86	19.00
		HIGH	Q16	18.74	18.72	18.82	19.00
	12	LOW	Q16	17.21	17.30	17.31	17.50
		MID	Q16	17.49	17.38	17.34	17.50
		HIGH	Q16	17.36	17.27	17.32	17.50
	25	LOW	Q16	17.39	17.44	17.40	17.50
5	1	LOW	64QAM	17.13	17.26	17.30	17.50
		MID	64QAM	17.37	17.39	17.33	17.50
		HIGH	64QAM	17.42	17.16	17.21	17.50
	12	LOW	64QAM	16.16	16.44	16.29	16.50
		MID	64QAM	16.42	16.44	16.19	16.50
		HIGH	64QAM	16.47	16.36	16.35	16.50
	25	LOW	64QAM	16.43	16.47	16.32	16.50

LTE B4-Full Power -Ant.1							
Bandwidth (MHz)	RB Size	RB offset	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	QPSK	19.34	19.30	19.40	19.50
		MID	QPSK	19.46	19.39	19.37	19.50
		HIGH	QPSK	19.33	19.31	19.45	19.50
	25	LOW	QPSK	18.34	18.32	18.43	18.50
		MID	QPSK	18.37	18.34	18.38	18.50
		HIGH	QPSK	18.35	18.28	18.30	18.50
	50	LOW	QPSK	18.41	18.21	18.29	18.50
10	1	LOW	Q16	18.91	18.73	18.89	19.00
		MID	Q16	18.79	18.95	18.87	19.00
		HIGH	Q16	18.79	18.83	18.90	19.00
	25	LOW	Q16	17.32	17.46	17.49	17.50
		MID	Q16	17.30	17.28	17.24	17.50
		HIGH	Q16	17.49	17.17	17.46	17.50
	50	LOW	Q16	17.32	17.49	17.25	17.50
10	1	LOW	64QAM	17.18	17.21	17.08	17.50
		MID	64QAM	17.42	17.45	17.32	17.50
		HIGH	64QAM	17.10	17.39	17.25	17.50
	25	LOW	64QAM	16.29	16.39	16.19	16.50
		MID	64QAM	16.30	16.32	16.32	16.50
		HIGH	64QAM	16.41	16.09	16.44	16.50
	50	LOW	64QAM	16.33	16.31	16.25	16.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	QPSK	19.32	19.17	19.34	19.50
		MID	QPSK	19.43	19.48	19.33	19.50
		HIGH	QPSK	19.45	19.43	19.19	19.50
	36	LOW	QPSK	18.29	18.40	18.33	18.50
		MID	QPSK	18.37	18.49	18.23	18.50
		HIGH	QPSK	18.35	18.19	18.35	18.50
	75	LOW	QPSK	18.37	18.34	18.34	18.50
15	1	LOW	Q16	18.67	18.85	18.87	19.00
		MID	Q16	18.80	18.82	18.87	19.00
		HIGH	Q16	18.70	18.95	18.86	19.00
	36	LOW	Q16	17.35	17.44	17.39	17.50
		MID	Q16	17.38	17.32	17.31	17.50
		HIGH	Q16	17.31	17.33	17.35	17.50
	75	LOW	Q16	17.32	17.32	17.27	17.50
15	1	LOW	64QAM	17.36	17.25	17.07	17.50
		MID	64QAM	17.32	17.41	17.35	17.50
		HIGH	64QAM	17.29	17.33	17.25	17.50
	36	LOW	64QAM	16.32	16.41	16.43	16.50
		MID	64QAM	16.38	16.34	16.26	16.50
		HIGH	64QAM	16.40	16.14	16.50	16.50
	75	LOW	64QAM	16.38	16.39	16.49	16.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	QPSK	19.37	19.25	19.30	19.50
		MID	QPSK	19.48	19.48	19.46	19.50
		HIGH	QPSK	19.36	19.36	19.32	19.50
	50	LOW	QPSK	18.42	18.38	18.36	18.50
		MID	QPSK	18.47	18.49	18.38	18.50
		HIGH	QPSK	18.39	18.30	18.42	18.50
	100	LOW	QPSK	18.47	18.32	18.39	18.50
20	1	LOW	Q16	18.81	18.70	18.79	19.00
		MID	Q16	18.93	18.89	18.96	19.00
		HIGH	Q16	18.80	18.81	18.88	19.00
	50	LOW	Q16	17.32	17.40	17.35	17.50
		MID	Q16	17.40	17.41	17.38	17.50
		HIGH	Q16	17.40	17.31	17.42	17.50
	100	LOW	Q16	17.42	17.38	17.40	17.50
20	1	LOW	64QAM	17.28	17.25	17.35	17.50
		MID	64QAM	17.46	17.32	17.48	17.50
		HIGH	64QAM	17.27	17.40	17.33	17.50
	50	LOW	64QAM	16.37	16.29	16.21	16.50
		MID	64QAM	16.46	16.33	16.43	16.50
		HIGH	64QAM	16.27	16.23	16.46	16.50
	100	LOW	64QAM	16.37	16.34	16.30	16.50

8.3.3 LTE Band5 Output Power

LTE B5-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.89	23.08	22.90	24.00
		MID	QPSK	22.87	23.03	22.86	24.00
		HIGH	QPSK	22.90	23.01	22.89	24.00
	3	LOW	QPSK	22.93	23.03	22.96	24.00
		MID	QPSK	22.92	23.08	22.99	24.00
		HIGH	QPSK	22.96	23.02	22.94	24.00
6	LOW	QPSK	21.88	22.02	21.91	23.00	
1.4	1	LOW	Q16	22.02	22.48	21.98	23.00
		MID	Q16	22.00	22.44	21.96	23.00
		HIGH	Q16	22.05	22.40	22.01	23.00
	3	LOW	Q16	21.96	22.25	22.10	23.00
		MID	Q16	21.93	22.19	22.07	23.00
		HIGH	Q16	21.97	22.19	22.09	23.00
6	LOW	Q16	21.03	20.91	21.12	22.00	
1.4	1	LOW	64QAM	21.16	21.53	20.95	22.00
		MID	64QAM	20.92	21.44	21.05	22.00
		HIGH	64QAM	21.03	21.42	21.12	22.00
	3	LOW	64QAM	20.87	21.13	21.18	22.00
		MID	64QAM	20.98	21.07	21.13	22.00
		HIGH	64QAM	20.84	21.11	21.08	22.00
6	LOW	64QAM	19.93	19.99	19.99	21.00	
Bandwidth (MHz)	RB Size	RB offset	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	22.94	23.10	22.91	24.00
		MID	QPSK	22.95	23.05	22.88	24.00
		HIGH	QPSK	23.00	22.95	22.88	24.00
	8	LOW	QPSK	21.97	22.04	21.98	23.00
		MID	QPSK	21.94	22.00	21.96	23.00
		HIGH	QPSK	21.98	22.01	21.91	23.00
15	LOW	QPSK	21.94	22.00	21.95	23.00	
3	1	LOW	Q16	21.80	22.47	22.00	23.00
		MID	Q16	21.81	22.43	21.93	23.00
		HIGH	Q16	21.84	22.35	21.95	23.00
	8	LOW	Q16	21.06	21.16	21.03	22.00
		MID	Q16	21.05	21.11	20.99	22.00
		HIGH	Q16	21.08	21.08	20.96	22.00
15	LOW	Q16	20.98	21.03	20.90	22.00	
3	1	LOW	64QAM	21.00	21.39	21.19	22.00
		MID	64QAM	20.71	21.44	20.96	22.00
		HIGH	64QAM	21.01	21.58	20.94	22.00
	8	LOW	64QAM	20.06	20.03	19.89	21.00
		MID	64QAM	19.89	19.84	20.20	21.00
		HIGH	64QAM	20.24	20.03	19.79	21.00
15	LOW	64QAM	19.87	20.10	20.12	21.00	

LTE B5-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	23.09	23.18	23.04	24.00
		MID	QPSK	23.12	23.13	22.99	24.00
		HIGH	QPSK	23.14	23.07	23.06	24.00
	12	LOW	QPSK	22.00	22.11	22.00	23.00
		MID	QPSK	22.03	22.03	21.96	23.00
		HIGH	QPSK	22.07	22.02	21.94	23.00
	25	LOW	QPSK	22.07	22.09	21.99	23.00
5	1	LOW	Q16	22.11	22.73	22.12	23.00
		MID	Q16	22.21	22.67	22.08	23.00
		HIGH	Q16	22.22	22.62	22.05	23.00
	12	LOW	Q16	21.06	21.27	21.07	22.00
		MID	Q16	21.09	21.20	21.03	22.00
		HIGH	Q16	21.14	21.19	21.03	22.00
	25	LOW	Q16	21.10	21.15	20.94	22.00
5	1	LOW	64QAM	20.91	21.48	21.27	22.00
		MID	64QAM	20.79	21.36	21.07	22.00
		HIGH	64QAM	20.97	21.46	21.17	22.00
	12	LOW	64QAM	20.18	20.09	20.00	21.00
		MID	64QAM	20.16	19.88	20.03	21.00
		HIGH	64QAM	20.20	20.05	19.84	21.00
	25	LOW	64QAM	19.85	19.99	20.24	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	23.00	23.10	23.04	24.00
		MID	QPSK	22.97	23.03	22.94	24.00
		HIGH	QPSK	23.13	23.07	22.97	24.00
	25	LOW	QPSK	22.00	22.10	22.01	23.00
		MID	QPSK	22.02	22.00	21.94	23.00
		HIGH	QPSK	22.09	22.02	21.93	23.00
	50	LOW	QPSK	22.04	22.08	21.95	23.00
10	1	LOW	Q16	21.88	22.49	22.09	23.00
		MID	Q16	21.86	22.42	21.97	23.00
		HIGH	Q16	22.06	22.46	22.01	23.00
	25	LOW	Q16	21.01	21.13	21.09	22.00
		MID	Q16	21.03	21.03	21.01	22.00
		HIGH	Q16	21.08	21.05	21.02	22.00
	50	LOW	Q16	21.01	21.09	20.97	22.00
10	1	LOW	64QAM	20.93	21.42	21.18	22.00
		MID	64QAM	20.79	21.36	21.09	22.00
		HIGH	64QAM	20.95	21.51	21.06	22.00
	25	LOW	64QAM	20.11	20.08	20.03	21.00
		MID	64QAM	20.02	19.99	20.15	21.00
		HIGH	64QAM	20.09	19.96	19.88	21.00
	50	LOW	64QAM	19.86	20.02	20.12	21.00

8.3.4 LTE Band12 Output Power

LTE B12-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.88	22.97	22.90	24.00
		MID	QPSK	22.92	22.93	22.82	24.00
		HIGH	QPSK	22.94	22.90	22.83	24.00
	3	LOW	QPSK	22.95	22.99	22.92	24.00
		MID	QPSK	22.96	22.95	22.90	24.00
		HIGH	QPSK	22.97	22.94	22.88	24.00
6	LOW	QPSK	21.94	21.99	21.86	23.00	
1.4	1	LOW	Q16	22.00	22.40	21.99	23.00
		MID	Q16	22.02	22.34	21.91	23.00
		HIGH	Q16	22.10	22.30	21.94	23.00
	3	LOW	Q16	21.97	22.19	22.02	23.00
		MID	Q16	22.01	22.08	22.00	23.00
		HIGH	Q16	22.01	22.12	22.01	23.00
6	LOW	Q16	21.09	20.88	21.08	22.00	
1.4	1	LOW	64QAM	20.95	21.52	21.01	22.00
		MID	64QAM	21.11	21.37	21.02	22.00
		HIGH	64QAM	21.22	21.32	20.96	22.00
	3	LOW	64QAM	21.00	21.23	21.00	22.00
		MID	64QAM	20.94	21.10	20.92	22.00
		HIGH	64QAM	21.11	21.00	20.92	22.00
6	LOW	64QAM	20.13	19.89	20.15	21.00	
Bandwidth (MHz)	RB Size	RB offset	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	QPSK	22.94	23.01	22.95	24.00
		MID	QPSK	23.00	22.89	22.88	24.00
		HIGH	QPSK	23.02	22.85	22.82	24.00
	8	LOW	QPSK	21.97	22.00	21.98	23.00
		MID	QPSK	22.00	21.95	21.95	23.00
		HIGH	QPSK	22.01	21.92	21.88	23.00
15	LOW	QPSK	21.97	21.96	21.93	23.00	
3	1	LOW	Q16	21.83	22.42	22.08	23.00
		MID	Q16	21.86	22.29	21.97	23.00
		HIGH	Q16	21.87	22.32	21.91	23.00
	8	LOW	Q16	21.08	21.09	21.02	22.00
		MID	Q16	21.11	21.06	20.97	22.00
		HIGH	Q16	21.12	21.02	20.95	22.00
15	LOW	Q16	21.01	21.00	20.91	22.00	
3	1	LOW	64QAM	20.95	21.42	21.17	22.00
		MID	64QAM	20.94	21.45	21.04	22.00
		HIGH	64QAM	20.86	21.33	21.19	22.00
	8	LOW	64QAM	20.05	20.13	20.14	21.00
		MID	64QAM	19.98	19.96	20.21	21.00
		HIGH	64QAM	20.32	20.00	20.04	21.00
15	LOW	64QAM	19.86	19.97	19.93	21.00	

LTE B12-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	QPSK	23.03	23.19	23.03	24.00
		MID	QPSK	23.11	23.00	23.06	24.00
		HIGH	QPSK	23.07	23.10	22.93	24.00
	12	LOW	QPSK	22.02	22.06	22.01	23.00
		MID	QPSK	22.05	22.01	21.99	23.00
		HIGH	QPSK	22.05	21.99	21.96	23.00
25	LOW	QPSK	22.05	22.06	22.01	23.00	
5	1	LOW	Q16	22.17	22.63	22.10	23.00
		MID	Q16	22.19	22.59	22.07	23.00
		HIGH	Q16	22.31	22.64	22.00	23.00
	12	LOW	Q16	21.08	21.23	21.11	22.00
		MID	Q16	21.12	21.17	21.06	22.00
		HIGH	Q16	21.16	21.15	21.03	22.00
25	LOW	Q16	21.09	21.12	20.95	22.00	
5	1	LOW	64QAM	20.91	21.44	21.21	22.00
		MID	64QAM	20.87	21.48	21.11	22.00
		HIGH	64QAM	20.96	21.54	21.02	22.00
	12	LOW	64QAM	19.85	19.88	19.93	21.00
		MID	64QAM	20.22	20.02	20.28	21.00
		HIGH	64QAM	20.15	19.90	20.05	21.00
25	LOW	64QAM	19.75	20.06	19.95	21.00	
Bandwidth (MHz)	RB Size	RB offset	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	QPSK	23.04	23.04	23.09	24.00
		MID	QPSK	23.08	22.95	22.96	24.00
		HIGH	QPSK	23.03	23.04	22.99	24.00
	25	LOW	QPSK	22.03	22.04	22.01	23.00
		MID	QPSK	22.05	22.01	21.98	23.00
		HIGH	QPSK	22.07	22.00	22.00	23.00
50	LOW	QPSK	22.04	22.04	22.01	23.00	
10	1	LOW	Q16	21.94	22.43	22.12	23.00
		MID	Q16	21.93	22.38	22.00	23.00
		HIGH	Q16	21.92	22.42	22.03	23.00
	25	LOW	Q16	21.03	21.07	21.09	22.00
		MID	Q16	21.04	21.03	21.06	22.00
		HIGH	Q16	21.07	21.03	21.07	22.00
50	LOW	Q16	21.02	21.04	21.03	22.00	
10	1	LOW	64QAM	20.96	21.48	21.14	22.00
		MID	64QAM	20.93	21.35	21.13	22.00
		HIGH	64QAM	20.95	21.45	21.10	22.00
	25	LOW	64QAM	19.93	20.00	20.03	21.00
		MID	64QAM	20.07	19.99	20.19	21.00
		HIGH	64QAM	20.17	19.95	20.00	21.00
50	LOW	64QAM	19.87	19.99	19.94	21.00	

8.3.5 LTE Band17 Output Power

LTE B17-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	QPSK	22.93	22.88	23.12	24.00
		MID	QPSK	22.89	22.98	22.98	24.00
		HIGH	QPSK	23.00	22.84	22.88	24.00
	12	LOW	QPSK	21.82	21.90	21.99	23.00
		MID	QPSK	21.90	21.79	22.01	23.00
		HIGH	QPSK	22.05	21.91	22.08	23.00
	25	LOW	QPSK	21.94	21.99	22.10	23.00
5	1	LOW	Q16	21.73	22.43	22.04	23.00
		MID	Q16	21.84	22.37	21.77	23.00
		HIGH	Q16	22.04	22.36	22.09	23.00
	12	LOW	Q16	21.01	21.05	20.99	22.00
		MID	Q16	20.81	20.83	20.86	22.00
		HIGH	Q16	20.81	21.09	20.99	22.00
	25	LOW	Q16	20.85	21.00	20.93	22.00
5	1	LOW	64QAM	21.06	21.47	21.30	22.00
		MID	64QAM	20.94	21.22	20.85	22.00
		HIGH	64QAM	20.95	21.47	21.00	22.00
	12	LOW	64QAM	20.01	19.76	19.86	21.00
		MID	64QAM	19.79	19.65	20.02	21.00
		HIGH	64QAM	20.00	19.94	20.12	21.00
	25	LOW	64QAM	19.71	19.81	19.88	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	QPSK	23.01	22.99	23.02	24.00
		MID	QPSK	22.92	22.88	22.87	24.00
		HIGH	QPSK	23.03	22.98	22.95	24.00
	25	LOW	QPSK	21.96	21.90	21.94	23.00
		MID	QPSK	21.93	21.90	21.91	23.00
		HIGH	QPSK	21.95	21.94	21.95	23.00
10	50	LOW	QPSK	21.93	21.96	21.97	23.00
10	1	LOW	Q16	21.86	22.37	22.10	23.00
		MID	Q16	21.82	22.27	21.90	23.00
		HIGH	Q16	21.90	22.40	22.02	23.00
	25	LOW	Q16	20.97	20.96	21.01	22.00
		MID	Q16	20.93	20.93	20.98	22.00
		HIGH	Q16	20.95	20.98	21.02	22.00
	50	LOW	Q16	20.91	20.97	20.97	22.00
10	1	LOW	64QAM	20.93	21.52	21.21	22.00
		MID	64QAM	20.81	21.13	20.80	22.00
		HIGH	64QAM	20.86	21.37	21.04	22.00
	25	LOW	64QAM	19.93	19.89	19.97	21.00
		MID	64QAM	19.86	19.78	20.05	21.00
		HIGH	64QAM	20.05	19.85	20.12	21.00
	50	LOW	64QAM	19.78	19.85	19.99	21.00

8.3.5 LTE Band25 Output Power

LTE B25-Full Power -Ant.1							
Bandwidth (MHz)	RB Size	RB offset	Modulation	26047	26365	26683	Tune-up power(dBm)
1.4	1	LOW	QPSK	18.74	18.62	18.68	19.00
		MID	QPSK	18.95	18.97	18.97	19.00
		HIGH	QPSK	18.89	18.72	18.83	19.00
	3	LOW	QPSK	18.92	18.82	18.86	19.00
		MID	QPSK	18.82	18.99	18.98	19.00
		HIGH	QPSK	18.65	18.82	18.92	19.00
6	LOW	QPSK	17.65	18.00	17.97	18.00	
1.4	1	LOW	Q16	18.21	18.01	18.29	18.50
		MID	Q16	18.33	18.41	18.35	18.50
		HIGH	Q16	18.10	18.32	18.28	18.50
	3	LOW	Q16	18.37	18.22	18.28	18.50
		MID	Q16	18.29	18.26	18.37	18.50
		HIGH	Q16	18.37	18.38	18.15	18.50
6	LOW	Q16	16.80	16.86	16.80	17.00	
1.4	1	LOW	64QAM	16.89	16.47	16.76	17.00
		MID	64QAM	16.84	16.74	17.00	17.00
		HIGH	64QAM	16.82	16.53	16.82	17.00
	3	LOW	64QAM	16.88	16.67	16.93	17.00
		MID	64QAM	16.97	16.96	16.98	17.00
		HIGH	64QAM	16.64	16.59	16.77	17.00
6	LOW	64QAM	15.90	15.83	15.90	16.00	
Bandwidth (MHz)	RB Size	RB offset	Modulation	26055	26365	26675	Tune-up power(dBm)
3	1	LOW	QPSK	18.84	18.64	18.86	19.00
		MID	QPSK	19.00	18.85	18.88	19.00
		HIGH	QPSK	18.76	18.88	18.69	19.00
	8	LOW	QPSK	17.74	17.83	17.92	18.00
		MID	QPSK	17.88	17.83	17.72	18.00
		HIGH	QPSK	17.95	18.00	17.94	18.00
15	LOW	QPSK	17.73	17.84	17.90	18.00	
3	1	LOW	Q16	18.17	18.09	18.23	18.50
		MID	Q16	18.32	18.40	18.46	18.50
		HIGH	Q16	18.12	18.31	18.25	18.50
	8	LOW	Q16	16.72	16.84	16.99	17.00
		MID	Q16	16.80	16.79	16.80	17.00
		HIGH	Q16	16.95	16.93	16.85	17.00
15	LOW	Q16	16.76	16.83	16.93	17.00	
3	1	LOW	64QAM	16.98	16.54	16.67	17.00
		MID	64QAM	16.85	16.67	16.97	17.00
		HIGH	64QAM	16.82	16.69	16.89	17.00
	8	LOW	64QAM	15.70	15.95	15.86	16.00
		MID	64QAM	15.82	15.65	15.81	16.00
		HIGH	64QAM	15.94	15.82	15.72	16.00
15	LOW	64QAM	15.60	15.85	15.98	16.00	
Bandwidth (MHz)	RB Size	RB offset	Modulation	26065	26365	26665	Tune-up power(dBm)
5	1	LOW	QPSK	18.72	18.85	18.78	19.00
		MID	QPSK	18.75	18.92	18.89	19.00
		HIGH	QPSK	18.75	18.76	18.71	19.00
	12	LOW	QPSK	17.69	17.90	17.89	18.00
		MID	QPSK	17.81	17.94	17.90	18.00
		HIGH	QPSK	17.85	17.81	18.00	18.00
25	LOW	QPSK	17.66	17.83	17.89	18.00	
5	1	LOW	Q16	18.17	18.09	18.17	18.50
		MID	Q16	18.36	18.46	18.34	18.50
		HIGH	Q16	18.21	18.17	18.16	18.50
	12	LOW	Q16	16.81	16.84	16.85	17.00
		MID	Q16	16.87	16.78	16.99	17.00
		HIGH	Q16	16.92	16.93	16.82	17.00
25	LOW	Q16	16.83	16.97	16.82	17.00	
5	1	LOW	64QAM	16.75	16.56	16.96	17.00
		MID	64QAM	16.90	16.70	16.71	17.00
		HIGH	64QAM	16.81	16.62	16.63	17.00
	12	LOW	64QAM	15.91	15.76	15.91	16.00
		MID	64QAM	15.75	15.88	15.78	16.00
		HIGH	64QAM	15.89	15.63	15.83	16.00
25	LOW	64QAM	15.75	15.95	15.91	16.00	

LTE B25-Full Power -Ant.1							
Bandwidth (MHz)	RB Size	RB offset	Modulation	26090	26365	26640	Tune-up power(dBm)
10	1	LOW	QPSK	18.88	18.63	18.77	19.00
		MID	QPSK	18.85	18.79	18.82	19.00
		HIGH	QPSK	18.83	18.83	18.79	19.00
	25	LOW	QPSK	17.89	17.83	17.82	18.00
		MID	QPSK	17.70	17.90	17.76	18.00
		HIGH	QPSK	17.79	17.98	17.89	18.00
50	LOW	QPSK	17.84	17.95	17.96	18.00	
10	1	LOW	Q16	18.22	18.09	18.32	18.50
		MID	Q16	18.35	18.49	18.43	18.50
		HIGH	Q16	18.37	18.23	18.16	18.50
	25	LOW	Q16	16.93	16.91	16.89	17.00
		MID	Q16	16.95	16.83	16.81	17.00
		HIGH	Q16	16.84	16.89	16.85	17.00
50	LOW	Q16	16.88	16.92	16.77	17.00	
10	1	LOW	64QAM	16.67	16.49	16.88	17.00
		MID	64QAM	16.88	16.92	16.86	17.00
		HIGH	64QAM	16.70	16.73	16.78	17.00
	25	LOW	64QAM	15.84	15.78	15.81	16.00
		MID	64QAM	15.96	15.92	15.77	16.00
		HIGH	64QAM	15.92	15.84	16.00	16.00
50	LOW	64QAM	15.70	15.75	15.84	16.00	
Bandwidth (MHz)	RB Size	RB offset	Modulation	26115	26365	26615	Tune-up power(dBm)
15	1	LOW	QPSK	18.63	18.75	18.71	19.00
		MID	QPSK	18.84	18.86	18.93	19.00
		HIGH	QPSK	18.75	18.78	18.84	19.00
	36	LOW	QPSK	17.62	17.79	17.98	18.00
		MID	QPSK	17.91	17.80	17.99	18.00
		HIGH	QPSK	17.95	17.92	17.87	18.00
75	LOW	QPSK	17.65	17.99	17.81	18.00	
15	1	LOW	Q16	18.40	18.06	18.36	18.50
		MID	Q16	18.36	18.39	18.36	18.50
		HIGH	Q16	18.21	18.39	18.33	18.50
	36	LOW	Q16	16.64	16.78	16.80	17.00
		MID	Q16	16.97	16.83	16.77	17.00
		HIGH	Q16	16.88	16.81	16.91	17.00
75	LOW	Q16	16.80	16.82	16.89	17.00	
15	1	LOW	64QAM	16.75	16.57	16.81	17.00
		MID	64QAM	16.80	16.91	16.97	17.00
		HIGH	64QAM	16.79	16.99	16.82	17.00
	36	LOW	64QAM	15.99	15.99	15.81	16.00
		MID	64QAM	15.82	15.81	15.86	16.00
		HIGH	64QAM	15.90	15.81	15.78	16.00
75	LOW	64QAM	15.73	15.90	15.96	16.00	
Bandwidth (MHz)	RB Size	RB offset	Modulation	26140	26365	26590	Tune-up power(dBm)
20	1	LOW	QPSK	18.78	18.70	18.79	19.00
		MID	QPSK	18.89	18.95	18.92	19.00
		HIGH	QPSK	18.80	18.82	18.78	19.00
	50	LOW	QPSK	17.75	17.94	17.94	18.00
		MID	QPSK	17.82	17.93	17.86	18.00
		HIGH	QPSK	17.84	17.96	17.87	18.00
100	LOW	QPSK	17.78	17.95	17.89	18.00	
20	1	LOW	Q16	18.30	18.13	18.28	18.50
		MID	Q16	18.41	18.38	18.43	18.50
		HIGH	Q16	18.25	18.26	18.24	18.50
	50	LOW	Q16	16.78	16.90	16.92	17.00
		MID	Q16	16.85	16.87	16.87	17.00
		HIGH	Q16	16.83	16.89	16.92	17.00
100	LOW	Q16	16.78	16.90	16.92	17.00	
20	1	LOW	64QAM	16.77	16.55	16.77	17.00
		MID	64QAM	16.90	16.80	16.87	17.00
		HIGH	64QAM	16.83	16.72	16.88	17.00
	50	LOW	64QAM	15.90	15.91	15.81	16.00
		MID	64QAM	15.73	15.73	15.75	16.00
		HIGH	64QAM	15.74	15.85	15.79	16.00
100	LOW	64QAM	15.68	15.84	15.81	16.00	

8.3.6 LTE Band26 Output Power

LTE B26-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	26697	26865	27033	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.89	22.97	22.86	24.00
		MID	QPSK	22.90	22.94	22.87	24.00
		HIGH	QPSK	22.93	22.97	22.91	24.00
	3	LOW	QPSK	22.95	22.93	22.94	24.00
		MID	QPSK	22.97	22.98	22.97	24.00
		HIGH	QPSK	22.96	22.96	22.97	24.00
6	LOW	QPSK	21.91	21.98	21.92	23.00	
1.4	1	LOW	Q16	22.07	22.37	21.94	23.00
		MID	Q16	22.08	22.34	21.93	23.00
		HIGH	Q16	22.08	22.36	22.01	23.00
	3	LOW	Q16	21.96	22.14	22.08	23.00
		MID	Q16	21.96	22.14	22.09	23.00
		HIGH	Q16	21.98	22.14	22.09	23.00
6	LOW	Q16	21.05	20.87	21.10	22.00	
1.4	1	LOW	64QAM	21.10	21.52	20.80	22.00
		MID	64QAM	20.94	21.47	21.02	22.00
		HIGH	64QAM	20.99	21.48	21.13	22.00
	3	LOW	64QAM	20.98	21.19	21.09	22.00
		MID	64QAM	21.03	21.27	21.21	22.00
		HIGH	64QAM	21.02	21.14	21.08	22.00
6	LOW	64QAM	20.11	20.01	20.19	21.00	
Bandwidth (MHz)	RB Size	RB offset	Modulation	26715	26865	27015	Tune-up power(dBm)
3	1	LOW	QPSK	22.96	22.96	22.84	24.00
		MID	QPSK	22.95	22.94	22.84	24.00
		HIGH	QPSK	23.01	22.96	22.91	24.00
	8	LOW	QPSK	21.94	21.93	21.90	23.00
		MID	QPSK	21.97	21.98	21.91	23.00
		HIGH	QPSK	21.98	21.96	21.89	23.00
15	LOW	QPSK	21.96	21.96	21.91	23.00	
3	1	LOW	Q16	21.84	22.37	21.94	23.00
		MID	Q16	21.85	22.34	21.90	23.00
		HIGH	Q16	21.90	22.38	21.95	23.00
	8	LOW	Q16	21.04	21.06	20.96	22.00
		MID	Q16	21.07	21.07	20.94	22.00
		HIGH	Q16	21.08	21.05	20.95	22.00
15	LOW	Q16	21.00	21.00	20.87	22.00	
3	1	LOW	64QAM	20.91	20.81	21.43	22.00
		MID	64QAM	20.90	20.91	21.21	22.00
		HIGH	64QAM	21.09	21.02	21.26	22.00
	8	LOW	64QAM	20.06	19.82	20.13	21.00
		MID	64QAM	19.94	20.00	19.87	21.00
		HIGH	64QAM	19.88	20.04	19.85	21.00
15	LOW	64QAM	19.79	20.01	20.05	21.00	
Bandwidth (MHz)	RB Size	RB offset	Modulation	26715	26865	27015	Tune-up power(dBm)
5	1	LOW	QPSK	23.10	23.08	23.03	24.00
		MID	QPSK	23.17	23.02	22.93	24.00
		HIGH	QPSK	23.02	23.14	23.03	24.00
	12	LOW	QPSK	22.01	22.01	21.96	23.00
		MID	QPSK	22.00	22.00	21.92	23.00
		HIGH	QPSK	22.01	22.01	21.90	23.00
25	LOW	QPSK	22.03	22.05	21.98	23.00	
5	1	LOW	Q16	22.18	22.61	22.12	23.00
		MID	Q16	22.22	22.55	22.01	23.00
		HIGH	Q16	22.17	22.69	22.06	23.00
	12	LOW	Q16	21.12	21.17	21.04	22.00
		MID	Q16	21.07	21.16	21.00	22.00
		HIGH	Q16	21.11	21.18	20.97	22.00
25	LOW	Q16	21.05	21.11	20.93	22.00	
5	1	LOW	64QAM	21.14	20.96	21.47	22.00
		MID	64QAM	20.92	21.01	21.27	22.00
		HIGH	64QAM	20.97	21.10	21.31	22.00
	12	LOW	64QAM	20.18	20.02	20.13	21.00
		MID	64QAM	20.09	19.75	19.99	21.00
		HIGH	64QAM	19.76	20.10	19.84	21.00
25	LOW	64QAM	19.82	20.24	20.01	21.00	

LTE B26-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	26740	26865	26990	Tune-up power(dBm)
10	1	LOW	QPSK	23.01	23.07	23.08	24.00
		MID	QPSK	22.89	22.95	22.91	24.00
		HIGH	QPSK	23.05	23.03	22.97	24.00
	25	LOW	QPSK	22.00	21.99	22.00	23.00
		MID	QPSK	21.95	21.97	21.94	23.00
		HIGH	QPSK	21.97	22.01	21.91	23.00
	50	LOW	QPSK	22.00	22.00	21.96	23.00
10	1	LOW	Q16	21.93	22.45	22.13	23.00
		MID	Q16	21.80	22.32	21.97	23.00
		HIGH	Q16	21.98	22.42	22.00	23.00
	25	LOW	Q16	21.01	21.01	21.07	22.00
		MID	Q16	20.97	20.99	21.02	22.00
		HIGH	Q16	20.99	21.03	20.98	22.00
	50	LOW	Q16	20.96	21.01	20.98	22.00
10	1	LOW	64QAM	21.07	20.85	21.47	22.00
		MID	64QAM	21.03	21.00	21.47	22.00
		HIGH	64QAM	20.96	21.25	21.47	22.00
	25	LOW	64QAM	19.94	20.00	20.10	21.00
		MID	64QAM	19.94	19.81	19.97	21.00
		HIGH	64QAM	19.80	19.91	19.95	21.00
	50	LOW	64QAM	19.90	20.11	20.07	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	26765	26865	26965	Tune-up power(dBm)
15	1	LOW	QPSK	23.02	23.03	23.03	24.00
		MID	QPSK	22.93	23.05	22.95	24.00
		HIGH	QPSK	23.03	23.00	22.92	24.00
	36	LOW	QPSK	22.00	21.98	22.01	23.00
		MID	QPSK	22.00	21.97	21.97	23.00
		HIGH	QPSK	22.00	21.99	21.92	23.00
	75	LOW	QPSK	22.03	22.01	22.00	23.00
15	1	LOW	Q16	21.96	21.95	22.47	23.00
		MID	Q16	21.84	21.95	22.35	23.00
		HIGH	Q16	21.97	21.96	22.31	23.00
	36	LOW	Q16	21.02	20.98	20.99	22.00
		MID	Q16	21.01	20.97	20.96	22.00
		HIGH	Q16	21.03	21.02	20.92	22.00
	75	LOW	Q16	21.01	21.03	21.00	22.00
15	1	LOW	64QAM	21.02	20.94	21.41	22.00
		MID	64QAM	20.99	20.91	21.33	22.00
		HIGH	64QAM	20.97	21.10	21.37	22.00
	36	LOW	64QAM	20.07	19.95	20.12	21.00
		MID	64QAM	20.01	19.90	19.99	21.00
		HIGH	64QAM	19.91	19.95	19.81	21.00
	75	LOW	64QAM	19.88	20.12	20.01	21.00

8.3.7 LTE Band66 Output Power

LTE B66-Full Power -Ant.1							
Bandwidth (MHz)	RB Size	RB offset	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	QPSK	19.44	19.30	19.06	19.50
		MID	QPSK	19.26	19.44	19.22	19.50
		HIGH	QPSK	19.41	19.26	19.22	19.50
	3	LOW	QPSK	19.49	19.32	19.15	19.50
		MID	QPSK	19.32	19.35	19.37	19.50
		HIGH	QPSK	19.26	19.28	19.14	19.50
	6	LOW	QPSK	18.46	18.22	18.45	18.50
1.4	1	LOW	Q16	18.93	18.69	18.72	19.00
		MID	Q16	18.73	18.89	18.64	19.00
		HIGH	Q16	18.80	18.92	18.72	19.00
	3	LOW	Q16	18.72	18.88	18.55	19.00
		MID	Q16	18.72	18.99	18.90	19.00
		HIGH	Q16	18.87	18.89	18.81	19.00
	6	LOW	Q16	17.41	17.36	17.50	17.50
1.4	1	LOW	64QAM	17.18	17.28	17.20	17.50
		MID	64QAM	17.41	17.29	17.49	17.50
		HIGH	64QAM	17.27	17.36	17.22	17.50
	3	LOW	64QAM	17.24	17.37	17.16	17.50
		MID	64QAM	17.31	17.26	17.22	17.50
		HIGH	64QAM	17.36	17.48	17.11	17.50
	6	LOW	64QAM	16.22	16.37	16.42	16.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	QPSK	19.42	19.37	19.15	19.50
		MID	QPSK	19.44	19.26	19.41	19.50
		HIGH	QPSK	19.36	19.47	19.36	19.50
	8	LOW	QPSK	18.36	18.25	18.29	18.50
		MID	QPSK	18.35	18.37	18.42	18.50
		HIGH	QPSK	18.27	18.40	18.29	18.50
	15	LOW	QPSK	18.25	18.49	18.26	18.50
3	1	LOW	Q16	18.83	18.83	18.69	19.00
		MID	Q16	18.88	18.95	18.88	19.00
		HIGH	Q16	18.78	18.99	18.75	19.00
	8	LOW	Q16	17.34	17.31	17.35	17.50
		MID	Q16	17.40	17.35	17.22	17.50
		HIGH	Q16	17.23	17.29	17.22	17.50
	15	LOW	Q16	17.27	17.34	17.27	17.50
3	1	LOW	64QAM	17.38	17.17	17.06	17.50
		MID	64QAM	17.26	17.38	17.11	17.50
		HIGH	64QAM	17.21	17.24	17.27	17.50
	8	LOW	64QAM	16.33	16.33	16.34	16.50
		MID	64QAM	16.28	16.27	16.15	16.50
		HIGH	64QAM	16.40	16.21	16.19	16.50
	15	LOW	64QAM	16.25	16.35	16.23	16.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	QPSK	19.27	19.41	19.21	19.50
		MID	QPSK	19.48	19.32	19.20	19.50
		HIGH	QPSK	19.35	19.30	19.35	19.50
	12	LOW	QPSK	18.45	18.34	18.34	18.50
		MID	QPSK	18.31	18.32	18.47	18.50
		HIGH	QPSK	18.35	18.38	18.42	18.50
	25	LOW	QPSK	18.34	18.50	18.50	18.50
5	1	LOW	Q16	18.79	18.63	18.49	19.00
		MID	Q16	18.84	18.93	18.62	19.00
		HIGH	Q16	19.00	18.82	18.71	19.00
	12	LOW	Q16	17.42	17.26	17.47	17.50
		MID	Q16	17.50	17.23	17.40	17.50
		HIGH	Q16	17.23	17.47	17.47	17.50
	25	LOW	Q16	17.24	17.44	17.36	17.50
5	1	LOW	64QAM	17.33	17.26	17.09	17.50
		MID	64QAM	17.26	17.45	17.36	17.50
		HIGH	64QAM	17.49	17.48	17.19	17.50
	12	LOW	64QAM	16.35	16.21	16.28	16.50
		MID	64QAM	16.46	16.29	16.36	16.50
		HIGH	64QAM	16.46	16.41	16.40	16.50
	25	LOW	64QAM	16.35	16.34	16.44	16.50

LTE B66-Full Power -Ant.1							
Bandwidth (MHz)	RB Size	RB offset	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	QPSK	19.47	19.36	19.05	19.50
		MID	QPSK	19.37	19.26	19.31	19.50
		HIGH	QPSK	19.24	19.22	19.27	19.50
	25	LOW	QPSK	18.48	18.21	18.33	18.50
		MID	QPSK	18.26	18.50	18.43	18.50
		HIGH	QPSK	18.29	18.27	18.28	18.50
	50	LOW	QPSK	18.21	18.42	18.24	18.50
10	1	LOW	Q16	18.91	18.76	18.45	19.00
		MID	Q16	18.75	18.94	18.87	19.00
		HIGH	Q16	18.89	18.83	18.61	19.00
	25	LOW	Q16	17.32	17.47	17.30	17.50
		MID	Q16	17.49	17.47	17.20	17.50
		HIGH	Q16	17.35	17.47	17.33	17.50
	50	LOW	Q16	17.24	17.46	17.49	17.50
10	1	LOW	64QAM	17.13	17.31	17.14	17.50
		MID	64QAM	17.34	17.27	17.16	17.50
		HIGH	64QAM	17.21	17.19	17.05	17.50
	25	LOW	64QAM	16.30	16.36	16.23	16.50
		MID	64QAM	16.29	16.35	16.20	16.50
		HIGH	64QAM	16.43	16.30	16.49	16.50
	50	LOW	64QAM	16.22	16.36	16.36	16.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	QPSK	19.50	19.25	19.19	19.50
		MID	QPSK	19.49	19.35	19.18	19.50
		HIGH	QPSK	19.49	19.23	19.29	19.50
	36	LOW	QPSK	18.46	18.31	18.29	18.50
		MID	QPSK	18.45	18.44	18.37	18.50
		HIGH	QPSK	18.37	18.24	18.38	18.50
	75	LOW	QPSK	18.24	18.31	18.26	18.50
15	1	LOW	Q16	18.65	18.81	18.54	19.00
		MID	Q16	18.76	18.72	18.86	19.00
		HIGH	Q16	18.85	18.86	18.68	19.00
	36	LOW	Q16	17.31	17.44	17.39	17.50
		MID	Q16	17.42	17.31	17.40	17.50
		HIGH	Q16	17.42	17.49	17.30	17.50
	75	LOW	Q16	17.31	17.46	17.33	17.50
15	1	LOW	64QAM	17.32	17.48	17.15	17.50
		MID	64QAM	17.40	17.22	17.15	17.50
		HIGH	64QAM	17.36	17.48	17.05	17.50
	36	LOW	64QAM	16.31	16.49	16.22	16.50
		MID	64QAM	16.34	16.26	16.29	16.50
		HIGH	64QAM	16.39	16.39	16.21	16.50
	75	LOW	64QAM	16.25	16.42	16.29	16.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	QPSK	19.38	19.27	19.15	19.50
		MID	QPSK	19.49	19.49	19.31	19.50
		HIGH	QPSK	19.38	19.37	19.28	19.50
	50	LOW	QPSK	18.39	18.42	18.38	18.50
		MID	QPSK	18.48	18.41	18.35	18.50
		HIGH	QPSK	18.49	18.46	18.43	18.50
	100	LOW	QPSK	18.50	18.42	18.39	18.50
20	1	LOW	Q16	18.80	18.76	18.60	19.00
		MID	Q16	19.00	18.95	18.75	19.00
		HIGH	Q16	18.87	18.85	18.71	19.00
	50	LOW	Q16	17.44	17.41	17.36	17.50
		MID	Q16	17.25	17.40	17.27	17.50
		HIGH	Q16	17.24	17.45	17.36	17.50
	100	LOW	Q16	17.45	17.39	17.42	17.50
20	1	LOW	64QAM	17.44	17.14	17.15	17.50
		MID	64QAM	17.48	17.26	17.12	17.50
		HIGH	64QAM	17.25	17.48	17.32	17.50
	50	LOW	64QAM	16.47	16.33	16.43	16.50
		MID	64QAM	16.25	16.46	16.23	16.50
		HIGH	64QAM	16.33	16.29	16.41	16.50
	100	LOW	64QAM	16.35	16.41	16.23	16.50

8.3.8 LTE Band71 Output Power

LTE B71-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	133147	133297	133447	Tune-up power(dBm)
5	1	LOW	QPSK	22.90	23.08	22.84	24.00
		MID	QPSK	22.81	22.95	22.88	24.00
		HIGH	QPSK	22.95	22.91	23.07	24.00
	12	LOW	QPSK	21.76	21.90	21.88	23.00
		MID	QPSK	21.80	21.91	21.90	23.00
		HIGH	QPSK	21.81	21.88	21.93	23.00
	25	LOW	QPSK	21.83	21.92	21.96	23.00
5	1	LOW	Q16	21.88	22.16	22.53	23.00
		MID	Q16	21.86	22.05	22.40	23.00
		HIGH	Q16	21.97	22.17	22.58	23.00
	12	LOW	Q16	20.86	20.98	21.04	22.00
		MID	Q16	20.88	20.97	21.05	22.00
		HIGH	Q16	20.89	20.96	21.08	22.00
	25	LOW	Q16	20.78	20.94	20.99	22.00
5	1	LOW	64QAM	21.40	21.06	21.56	22.00
		MID	64QAM	21.67	21.34	21.44	22.00
		HIGH	64QAM	21.51	21.41	21.35	22.00
	12	LOW	64QAM	19.95	19.83	19.84	21.00
		MID	64QAM	19.94	20.16	19.78	21.00
		HIGH	64QAM	19.89	19.84	19.79	21.00
	25	LOW	64QAM	19.68	19.83	19.89	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	133422	133297	133422	Tune-up power(dBm)
10	1	LOW	QPSK	22.89	22.89	22.89	24.00
		MID	QPSK	22.80	22.83	22.82	24.00
		HIGH	QPSK	22.90	22.89	22.98	24.00
	25	LOW	QPSK	21.80	21.90	21.89	23.00
		MID	QPSK	21.82	21.90	21.87	23.00
		HIGH	QPSK	21.87	21.89	21.92	23.00
	50	LOW	QPSK	21.81	21.92	21.92	23.00
10	1	LOW	Q16	21.76	22.27	21.95	23.00
		MID	Q16	21.70	22.21	21.85	23.00
		HIGH	Q16	21.82	22.29	21.97	23.00
	25	LOW	Q16	20.82	20.92	20.98	22.00
		MID	Q16	20.85	20.88	20.94	22.00
		HIGH	Q16	20.86	20.92	20.99	22.00
	50	LOW	Q16	20.80	20.89	20.91	22.00
10	1	LOW	64QAM	21.39	21.21	21.58	22.00
		MID	64QAM	21.39	21.41	21.37	22.00
		HIGH	64QAM	21.31	21.43	21.09	22.00
	25	LOW	64QAM	19.91	19.82	19.88	21.00
		MID	64QAM	19.88	19.96	19.81	21.00
		HIGH	64QAM	19.70	19.87	19.79	21.00
	50	LOW	64QAM	19.81	19.77	19.91	21.00

LTE B71-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	133197	133297	133397	Tune-up power(dBm)
15	1	LOW	QPSK	22.80	22.84	22.91	24.00
		MID	QPSK	22.85	22.88	22.82	24.00
		HIGH	QPSK	22.98	22.88	22.89	24.00
	36	LOW	QPSK	21.83	21.88	21.89	23.00
		MID	QPSK	21.90	21.89	21.89	23.00
		HIGH	QPSK	21.93	21.88	21.89	23.00
75	LOW	QPSK	21.86	21.88	21.87	23.00	
15	1	LOW	Q16	22.44	22.24	22.31	23.00
		MID	Q16	22.46	22.30	22.26	23.00
		HIGH	Q16	22.57	22.29	22.34	23.00
	36	LOW	Q16	20.84	20.89	20.87	22.00
		MID	Q16	20.91	20.89	20.86	22.00
		HIGH	Q16	20.93	20.90	20.85	22.00
75	LOW	Q16	20.89	20.87	20.87	22.00	
15	1	LOW	64QAM	21.30	21.16	21.46	22.00
		MID	64QAM	21.53	21.33	21.35	22.00
		HIGH	64QAM	21.45	21.29	21.21	22.00
	36	LOW	64QAM	19.86	19.94	19.91	21.00
		MID	64QAM	20.03	20.02	19.87	21.00
		HIGH	64QAM	19.78	19.97	19.91	21.00
75	LOW	64QAM	19.77	19.78	19.79	21.00	
Bandwidth (MHz)	RB Size	RB offset	Modulation	133222	133372	132572	Tune-up power(dBm)
20	1	LOW	QPSK	22.84	22.81	22.94	24.00
		MID	QPSK	22.84	22.88	22.81	24.00
		HIGH	QPSK	22.92	22.87	22.87	24.00
	50	LOW	QPSK	21.78	21.87	21.83	23.00
		MID	QPSK	21.82	21.87	21.84	23.00
		HIGH	QPSK	21.85	21.86	21.87	23.00
100	LOW	QPSK	21.83	21.84	21.88	23.00	
20	1	LOW	Q16	21.69	22.17	22.24	23.00
		MID	Q16	21.74	22.26	22.20	23.00
		HIGH	Q16	21.81	22.26	22.25	23.00
	50	LOW	Q16	20.78	20.92	20.83	22.00
		MID	Q16	20.82	20.92	20.83	22.00
		HIGH	Q16	20.87	20.93	20.85	22.00
100	LOW	Q16	20.86	20.89	20.89	22.00	
20	1	LOW	64QAM	21.18	21.17	21.50	22.00
		MID	64QAM	21.46	21.36	21.45	22.00
		HIGH	64QAM	21.39	21.41	21.08	22.00
	50	LOW	64QAM	20.00	19.88	20.00	21.00
		MID	64QAM	19.89	20.11	19.77	21.00
		HIGH	64QAM	19.85	20.05	19.92	21.00
100	LOW	64QAM	19.79	19.73	19.65	21.00	

8.3.9 LTE Band41 Output Power

LTE B41-Full Power-Ant.5							
Bandwidth (MHz)	RB Size	RB offset	Modulation	39675	40620	41565	Tune-up power(dBm)
5	1	LOW	QPSK	22.80	22.95	23.19	24.50
		MID	QPSK	23.02	23.03	23.37	24.50
		HIGH	QPSK	23.11	22.89	23.13	24.50
	12	LOW	QPSK	22.95	21.97	22.15	23.50
		MID	QPSK	22.11	21.95	22.31	23.50
		HIGH	QPSK	22.08	21.94	22.14	23.50
25	LOW	QPSK	22.11	22.14	22.24	23.50	
5	1	LOW	Q16	22.45	22.05	22.41	23.50
		MID	Q16	22.38	22.08	22.81	23.50
		HIGH	Q16	22.40	22.13	22.83	23.50
	12	LOW	Q16	22.07	22.14	22.06	22.50
		MID	Q16	22.10	21.93	22.20	22.50
		HIGH	Q16	22.11	21.96	22.19	22.50
25	LOW	Q16	21.95	21.88	22.26	22.50	
5	1	LOW	64QAM	21.31	21.20	21.37	22.50
		MID	64QAM	21.46	21.26	21.51	22.50
		HIGH	64QAM	21.30	21.34	21.65	22.50
	12	LOW	64QAM	21.01	21.15	21.29	21.50
		MID	64QAM	21.10	21.04	21.00	21.50
		HIGH	64QAM	21.14	21.04	21.20	21.50
25	LOW	64QAM	21.01	20.93	21.15	21.50	
Bandwidth (MHz)	RB Size	RB offset	Modulation	39700	40620	41540	Tune-up power(dBm)
10	1	LOW	QPSK	22.81	22.82	23.16	24.50
		MID	QPSK	22.91	23.06	23.28	24.50
		HIGH	QPSK	23.07	22.89	23.40	24.50
	25	LOW	QPSK	23.10	21.87	22.20	23.50
		MID	QPSK	22.10	22.15	22.18	23.50
		HIGH	QPSK	22.17	22.10	22.33	23.50
50	LOW	QPSK	22.07	21.86	22.19	23.50	
10	1	LOW	Q16	22.41	22.19	22.40	23.50
		MID	Q16	22.37	22.22	22.63	23.50
		HIGH	Q16	22.57	22.26	22.69	23.50
	25	LOW	Q16	22.06	21.95	22.30	22.50
		MID	Q16	21.98	21.88	22.37	22.50
		HIGH	Q16	22.10	22.15	22.31	22.50
50	LOW	Q16	22.01	22.10	22.20	22.50	
10	1	LOW	64QAM	21.52	21.14	21.36	22.50
		MID	64QAM	21.48	21.32	21.57	22.50
		HIGH	64QAM	21.40	21.19	21.63	22.50
	25	LOW	64QAM	21.10	21.01	21.04	21.50
		MID	64QAM	20.95	20.80	21.22	21.50
		HIGH	64QAM	21.35	21.12	21.11	21.50
50	LOW	64QAM	21.20	20.90	20.99	21.50	

LTE B41-Full Power-Ant.5							
Bandwidth (MHz)	RB Size	RB offset	Modulation	39725	40620	41515	Tune-up power(dBm)
15	1	LOW	QPSK	22.86	22.86	22.96	24.50
		MID	QPSK	23.01	22.87	23.23	24.50
		HIGH	QPSK	23.02	23.05	23.26	24.50
	36	LOW	QPSK	22.92	21.86	22.17	23.50
		MID	QPSK	21.96	22.20	22.12	23.50
		HIGH	QPSK	22.00	22.09	22.12	23.50
	75	LOW	QPSK	21.89	22.00	22.14	23.50
15	1	LOW	Q16	22.43	22.28	22.48	23.50
		MID	Q16	22.51	22.24	22.65	23.50
		HIGH	Q16	22.41	22.27	22.64	23.50
	36	LOW	Q16	21.79	22.06	22.27	22.50
		MID	Q16	21.93	22.03	22.31	22.50
		HIGH	Q16	22.07	22.20	22.28	22.50
	75	LOW	Q16	21.98	21.97	22.09	22.50
15	1	LOW	64QAM	21.28	21.27	21.45	22.50
		MID	64QAM	21.45	21.23	21.54	22.50
		HIGH	64QAM	21.45	21.42	21.70	22.50
	36	LOW	64QAM	21.01	21.17	21.15	21.50
		MID	64QAM	20.82	21.01	20.98	21.50
		HIGH	64QAM	21.08	21.13	21.37	21.50
	75	LOW	64QAM	21.14	20.85	21.21	21.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	39750	40620	41490	Tune-up power(dBm)
20	1	LOW	QPSK	22.93	22.97	23.09	24.50
		MID	QPSK	23.00	22.96	23.24	24.50
		HIGH	QPSK	23.11	22.96	23.28	24.50
	50	LOW	QPSK	22.98	22.01	22.16	23.50
		MID	QPSK	22.03	22.05	22.18	23.50
		HIGH	QPSK	22.05	22.04	22.23	23.50
100	LOW	QPSK	22.03	22.01	22.19	23.50	
20	1	LOW	Q16	22.31	22.18	22.49	23.50
		MID	Q16	22.40	22.20	22.68	23.50
		HIGH	Q16	22.48	22.18	22.69	23.50
	50	LOW	Q16	21.94	22.03	22.18	22.50
		MID	Q16	21.99	22.01	22.23	22.50
		HIGH	Q16	22.10	22.05	22.22	22.50
	100	LOW	Q16	22.02	22.01	22.19	22.50
20	1	LOW	64QAM	21.42	21.25	21.44	22.50
		MID	64QAM	21.48	21.23	21.60	22.50
		HIGH	64QAM	21.39	21.29	21.59	22.50
	50	LOW	64QAM	21.02	21.12	21.16	21.50
		MID	64QAM	20.96	20.89	21.13	21.50
		HIGH	64QAM	21.21	21.12	21.25	21.50
	100	LOW	64QAM	21.11	20.91	21.09	21.50

8.4.1 LTE Band5 Uplink CA Output Power

LTE Uplink 2CA_ Band 5-ANT0 Full power										
Combination 5MHz+5MHz(25RB+25RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				PCC		RB Size	RB Pos.			
20450	20625	10	QPSK	1	High	1	Low	2	23.12	24
20525	20425	10	QPSK	1	High	1	Low	2	23.08	24
20600	20525	10	QPSK	1	Low	1	High	2	23.16	24

8.4.2 LTE Band41 Uplink CA Output Power

LTE Uplink 2CA_ Band 41-ANT1-Full power										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	23.01	24.5
40620	40818	20	QPSK	1	High	1	Low	2	23.18	24.5
41490	41292	20	QPSK	1	Low	1	High	2	22.97	24.5

8.4.3 LTE Band66 Uplink CA Output Power

LTE Uplink 2CA_ Band 66-ANT1 Full power										
Combination 15MHz+5MHz(75RB+25RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
132047	132665	20	QPSK	1	High	1	Low	2	19.46	19.5
132322	131979	20	QPSK	1	High	1	Low	2	19.47	19.5
132572	132322	20	QPSK	1	Low	1	High	2	19.49	19.5

LTE Uplink 2CA_ Band 66-ANT1 Full power										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
132047	132245	20	QPSK	1	High	1	Low	2	19.42	19.5
132322	132124	20	QPSK	1	High	1	Low	2	19.46	19.5
132572	132374	20	QPSK	1	Low	1	High	2	19.41	19.5

8.5.1 NR Band2 Output Power

N2-ANT5 Full power

Bandwidth (MHz)	Modulation	Channel		370500	376000	381500	Tune-up power(dB)
		RB Size	RB offset	1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	22.96	22.87	22.78	23.00
Bandwidth (MHz)	Modulation	Channel		371000	376000	381000	Tune-up power(dB)
		RB Size	RB offset	1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	22.83	22.81	22.71	23.00
Bandwidth (MHz)	Modulation	Channel		371500	376000	380500	Tune-up power(dB)
		RB Size	RB offset	1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	22.90	22.92	22.64	23.00
Bandwidth (MHz)	Modulation	Channel		372000	376000	380000	Tune-up power(dB)
		RB Size	RB offset	1860	1880	1900	
20	DFT-s-OFDM BPSK	1	1	22.97	22.96	22.89	23.00
		1	53	22.89	22.75	22.83	23.00
		1	104	22.72	22.88	22.81	23.00
	DFT-s-OFDM BPSK	50	0	22.67	22.54	22.47	23.00
		50	28	22.75	22.76	22.94	23.00
		50	56	22.40	22.50	22.69	23.00
	DFT-s-OFDM BPSK	100	0	22.71	22.56	22.45	23.00
		1	1	22.74	22.96	22.70	23.00
		1	53	22.85	22.97	22.72	23.00
		1	104	22.73	22.85	22.69	23.00
	DFT-s-OFDM QPSK	50	0	22.47	22.54	22.52	23.00
		50	28	22.87	22.76	22.72	23.00
		50	56	22.48	22.43	22.72	23.00
	DFT-s-OFDM QPSK	100	0	22.76	22.49	22.50	23.00
	DFT-s-OFDM 16QAM	1	1	21.58	21.67	21.51	22.00
	DFT-s-OFDM 64QAM	1	1	20.23	20.29	20.38	20.50
	DFT-s-OFDM 256QAM	1	1	19.06	18.91	19.05	19.50
	CP-OFDM QPSK	1	1	21.41	21.53	21.53	22.00
	CP-OFDM 16QAM	1	1	21.15	21.32	21.35	22.00
	CP-OFDM 64QAM	1	1	19.54	19.63	19.76	20.00
	CP-OFDM 256QAM	1	1	16.18	16.33	16.29	16.50

8.5.2 NR Band5 Output Power

N5-ANT0 Full power

Bandwidth (MHz)	Modulation	Channel		165300	167300	169300	Tune-up power(dB)
		RB Size	RB offset	826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	22.58	22.67	22.77	23.00
Bandwidth (MHz)	Modulation	Channel		165800	167300	168800	Tune-up power(dB)
		RB Size	RB offset	829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	22.50	22.96	22.72	23.00
Bandwidth (MHz)	Modulation	Channel		166300	167300	168300	Tune-up power(dB)
		RB Size	RB offset	831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	22.76	22.88	22.71	23.00
Bandwidth (MHz)	Modulation	Channel		166800	167300	167800	Tune-up power(dB)
		RB Size	RB offset	834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	22.89	22.86	22.83	23.00
		1	53	22.85	22.83	22.81	23.00
		1	104	22.81	22.85	22.84	23.00
	DFT-s-OFDM BPSK	50	0	22.49	22.41	22.48	23.00
		50	28	23.00	22.87	22.81	23.00
		50	56	22.54	22.36	22.30	23.00
	DFT-s-OFDM BPSK	100	0	22.38	22.37	22.47	23.00
		1	1	22.69	22.85	22.85	23.00
		1	53	22.94	22.71	22.99	23.00
	DFT-s-OFDM QPSK	1	104	22.78	22.71	22.94	23.00
		50	0	22.64	22.31	22.39	23.00
		50	28	22.97	22.86	22.95	23.00
	DFT-s-OFDM QPSK	50	56	22.69	22.20	22.17	23.00
		100	0	22.34	22.29	22.39	23.00
	DFT-s-OFDM 16QAM	1	1	21.58	21.61	21.76	22.00
	DFT-s-OFDM 64QAM	1	1	20.13	20.19	20.02	20.50
	DFT-s-OFDM 256QAM	1	1	18.62	18.79	18.80	19.00
	CP-OFDM QPSK	1	1	21.31	21.43	21.37	21.50
	CP-OFDM 16QAM	1	1	21.14	21.20	21.05	21.50
	CP-OFDM 64QAM	1	1	19.44	19.54	19.71	20.00
	CP-OFDM 256QAM	1	1	16.38	16.28	16.13	16.50

8.5.3 NR Band25 Output Power

N25-ANT5 Full power

Bandwidth (MHz)	Modulation	Channel		371000	376500	382000	Tune-up power(dB)
		RB Size	RB offset	1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	22.10	22.45	22.30	23.00
Bandwidth (MHz)	Modulation	Channel		371500	376500	381500	Tune-up power(dB)
		RB Size	RB offset	1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	22.49	22.38	22.27	23.00
Bandwidth (MHz)	Modulation	Channel		372000	376500	381000	Tune-up power(dB)
		RB Size	RB offset	1860	1882.5	1905	
20	DFT-s-OFDM BPSK	1	1	22.44	22.53	22.37	23.00
		1	53	22.47	22.59	22.29	23.00
		1	104	22.53	22.40	22.69	23.00
	DFT-s-OFDM BPSK	50	0	22.48	22.65	22.83	23.00
		50	28	22.60	22.63	22.79	23.00
		50	56	22.48	22.55	22.67	23.00
	DFT-s-OFDM BPSK	100	0	22.71	22.62	22.65	23.00
		1	1	22.30	22.52	22.44	23.00
		1	53	22.38	22.64	22.23	23.00
	DFT-s-OFDM QPSK	1	104	22.37	22.55	22.51	23.00
		50	0	22.66	22.80	22.97	23.00
		50	28	22.49	22.62	22.91	23.00
	DFT-s-OFDM QPSK	50	56	22.29	22.45	22.49	23.00
		100	0	22.52	22.56	22.67	23.00
	DFT-s-OFDM 16QAM	1	1	21.57	21.76	21.92	22.00
	DFT-s-OFDM 64QAM	1	1	20.31	20.37	20.39	20.50
	DFT-s-OFDM 256QAM	1	1	18.94	18.95	18.83	19.00
	CP-OFDM QPSK	1	1	21.41	21.38	21.48	21.50
	CP-OFDM 16QAM	1	1	21.37	21.38	21.37	21.50
	CP-OFDM 64QAM	1	1	19.57	19.66	19.72	20.00
	CP-OFDM 256QAM	1	1	16.33	16.37	16.37	16.50

8.5.4 NR Band41 Output Power

N41-ANT3 Full power

Bandwidth (MHz)	Modulation	Channel		501204	509904	518598	527298	535998	Tune-up power(dB)
		RB Size	RB offset	2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	24.49	24.87	24.98	24.86	24.23	25.00
Bandwidth (MHz)	Modulation	Channel		502200	510398	518598	526798	534996	Tune-up power(dB)
		RB Size	RB offset	2511	2551.99	2592.99	2633.99	2674.98	
30	DFT-s-OFDM QPSK	1	1	24.60	24.87	24.87	24.98	24.13	25.00
Bandwidth (MHz)	Modulation	Channel		503202	510900	518598	526302	534000	Tune-up power(dB)
		RB Size	RB offset	2516.01	2554.5	2592.99	2631.5	2670	
40	DFT-s-OFDM QPSK	1	1	24.79	24.65	24.74	24.97	24.25	25.00
Bandwidth (MHz)	Modulation	Channel		509202	511404	518598	525798	528000	Tune-up power(dB)
		RB Size	RB offset	2546.01	2557.02	2592.99	2628.99	2640	
100	DFT-s-OFDM BPSK	1	1	24.68	24.77	24.98	24.85	24.14	25.00
		1	137	24.33	24.38	24.46	24.32	24.96	25.00
		1	271	23.79	24.88	24.96	24.89	23.18	25.00
	DFT-s-OFDM BPSK	135	0	24.76	24.49	24.69	24.64	24.76	25.00
		135	69	24.72	24.57	24.70	24.62	24.65	25.00
		135	138	24.48	24.51	24.67	24.63	24.69	25.00
	DFT-s-OFDM BPSK	270	0	24.80	24.75	24.68	24.65	24.67	25.00
		1	1	24.65	24.69	24.81	24.53	24.07	25.00
		1	137	24.37	24.35	24.40	24.12	24.87	25.00
	DFT-s-OFDM QPSK	1	271	23.94	24.91	24.66	24.90	23.14	25.00
		135	0	24.66	24.53	24.64	24.74	24.61	25.00
		135	69	24.63	24.45	24.28	24.70	24.60	25.00
		135	138	24.29	24.34	24.58	24.70	24.60	25.00
	DFT-s-OFDM QPSK	270	0	24.90	24.57	24.73	24.59	24.73	25.00
	DFT-s-OFDM 16QAM	1	1	23.60	23.70	23.62	23.65	23.52	24.00
	DFT-s-OFDM 64QAM	1	1	22.26	22.08	22.18	22.32	22.25	22.50
	DFT-s-OFDM 256QAM	1	1	20.76	20.72	20.87	20.77	20.94	21.00
	CP-OFDM QPSK	1	1	23.13	23.39	23.45	23.42	23.38	23.50
	CP-OFDM 16QAM	1	1	22.95	23.27	23.12	23.30	23.25	23.50
	CP-OFDM 64QAM	1	1	21.43	21.18	21.06	21.48	21.38	21.50
	CP-OFDM 256QAM	1	1	18.25	18.06	18.36	18.17	18.31	18.50

8.5.5 NR Band66 Output Power

N66-ANT5 Full power

Bandwidth (MHz)	Modulation	Channel		343000	349000	355000	Tune-up power(dB)
		RB Size	RB offset	1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	22.82	22.45	22.72	23.00
Bandwidth (MHz)	Modulation	Channel		343500	349000	354500	Tune-up power(dB)
		RB Size	RB offset	1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	22.81	22.61	22.73	23.00
Bandwidth (MHz)	Modulation	Channel		344000	349000	354000	Tune-up power(dB)
		RB Size	RB offset	1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	22.70	22.51	22.54	23.00
Bandwidth (MHz)	Modulation	Channel		346000	349000	352000	Tune-up power(dB)
		RB Size	RB offset	1730	1745	1760	
40	DFT-s-OFDM BPSK	1	1	22.67	22.65	22.75	23.00
		1	108	22.68	22.77	22.91	23.00
		1	214	22.83	22.93	22.96	23.00
	DFT-s-OFDM BPSK	108	0	22.99	22.74	22.90	23.00
		108	54	22.92	22.93	22.98	23.00
		108	108	22.72	23.00	22.93	23.00
	DFT-s-OFDM BPSK	216	0	22.94	22.82	22.98	23.00
		1	1	22.70	22.49	22.71	23.00
		1	108	22.63	22.59	22.97	23.00
	DFT-s-OFDM QPSK	1	214	22.95	22.73	22.81	23.00
		108	0	22.94	22.65	22.68	23.00
		108	54	22.80	22.64	22.92	23.00
		108	108	22.81	22.65	22.85	23.00
	DFT-s-OFDM QPSK	216	0	22.74	22.81	22.84	23.00
	DFT-s-OFDM 16QAM	1	1	21.81	21.63	21.61	22.00
	DFT-s-OFDM 64QAM	1	1	20.70	20.38	20.57	21.00
	DFT-s-OFDM 256QAM	1	1	19.14	19.26	19.30	19.50
	CP-OFDM QPSK	1	1	21.64	21.80	21.80	22.00
	CP-OFDM 16QAM	1	1	21.28	21.14	21.17	21.50
	CP-OFDM 64QAM	1	1	19.90	19.84	19.96	20.00
	CP-OFDM 256QAM	1	1	16.87	16.64	16.74	17.00

8.5.6 NR Band71 Output Power

N71-ANT0 Full power

Bandwidth (MHz)	Modulation	Channel		133600	136100	138600	Tune-up power(dB)
		RB Size	RB offset	668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	22.88	22.90	22.91	23.00
Bandwidth (MHz)	Modulation	Channel		134100	136100	138100	Tune-up power(dB)
		RB Size	RB offset	670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	22.81	22.84	23.00	23.00
Bandwidth (MHz)	Modulation	Channel		134600	136100	137600	Tune-up power(dB)
		RB Size	RB offset	673	680.5	688	
20	DFT-s-OFDM BPSK	1	1	22.81	22.76	22.85	23.00
		1	53	22.80	22.81	22.81	23.00
		1	104	22.83	22.92	22.89	23.00
	DFT-s-OFDM BPSK	50	0	22.25	22.39	22.54	23.00
		50	28	22.75	22.86	22.66	23.00
		50	56	22.34	22.39	22.58	23.00
	DFT-s-OFDM BPSK	100	0	22.46	22.37	22.23	23.00
	DFT-s-OFDM QPSK	1	1	22.94	22.73	22.84	23.00
		1	53	22.91	22.86	22.81	23.00
		1	104	22.74	22.73	22.83	23.00
	DFT-s-OFDM QPSK	50	0	22.12	22.19	22.58	23.00
		50	28	22.58	22.84	22.82	23.00
		50	56	22.20	22.26	22.68	23.00
	DFT-s-OFDM QPSK	100	0	22.59	22.38	22.30	23.00
	DFT-s-OFDM 16QAM	1	1	21.60	21.49	21.48	22.00
	DFT-s-OFDM 64QAM	1	1	20.01	20.08	19.91	20.50
	DFT-s-OFDM 256QAM	1	1	18.79	18.76	18.87	19.00
	CP-OFDM QPSK	1	1	21.33	21.33	21.32	21.50
	CP-OFDM 16QAM	1	1	21.12	21.10	21.12	21.50
	CP-OFDM 64QAM	1	1	19.60	19.44	19.27	20.00
	CP-OFDM 256QAM	1	1	16.09	16.21	16.35	16.50

8.5.7 NR Band77 Output Power

N77-ANT2 Full power

Bandwidth (MHz)	Modulation	Channel		620668	650000	679332	Tune-up power(dB)
		RB Size	RB offset	3310.02	3750	4189.98	
20	DFT-s-OFDM QPSK	1	1	24.87	24.44	24.48	25.00
Bandwidth (MHz)	Modulation	Channel		621334	650000	678666	Tune-up power(dB)
		RB Size	RB offset	3320.01	3750	4179.99	
40	DFT-s-OFDM QPSK	1	1	24.60	24.54	24.72	25.00
Bandwidth (MHz)	Modulation	Channel		623334	650000	676666	Tune-up power(dB)
		RB Size	RB offset	3350.01	3750	4149.99	
100	DFT-s-OFDM BPSK	1	1	24.82	24.90	24.88	25.00
		1	137	24.01	24.82	24.83	25.00
		1	271	24.01	24.89	24.87	25.00
	DFT-s-OFDM BPSK	135	0	24.63	24.52	24.58	25.00
		135	69	24.51	24.53	24.57	25.00
		135	138	24.22	24.11	24.10	25.00
	DFT-s-OFDM BPSK	270	0	24.39	24.49	24.55	25.00
	DFT-s-OFDM QPSK	1	1	24.77	24.43	24.45	25.00
		1	137	24.15	24.92	24.96	25.00
		1	271	23.93	23.99	24.85	25.00
	DFT-s-OFDM QPSK	135	0	24.80	24.34	24.61	25.00
		135	69	24.61	24.55	24.46	25.00
		135	138	24.25	24.30	23.97	25.00
	DFT-s-OFDM QPSK	270	0	24.52	24.61	24.58	25.00
	DFT-s-OFDM 16QAM	1	1	23.32	23.36	23.38	24.00
	DFT-s-OFDM 64QAM	1	1	21.59	21.63	21.47	22.50
	DFT-s-OFDM 256QAM	1	1	20.51	20.34	20.41	21.00
	CP-OFDM QPSK	1	1	22.46	22.66	22.81	23.50
	CP-OFDM 16QAM	1	1	22.52	22.34	22.20	23.00
	CP-OFDM 64QAM	1	1	20.68	20.55	20.72	21.50
	CP-OFDM 256QAM	1	1	17.33	17.23	17.27	18.50

8.6 LTE Downlink Carrier Aggregation Setup Configurations

LTE Carrier Aggregation (CA) was defined in 3GPP release 10 and higher. The LTE device in CA mode has one Primary Component Carrier (PCC) and one or more Secondary Component Carriers (SCC). PCC acts as the anchor carrier and can optionally cross-schedule data transmission on SCC. The RRC connection is only handled by one cell, the PCC for downlink and uplink communications. After making a data connection to the PCC, the LTE device adds the SCC on the downlink only. All uplink communications and acknowledgements remain identical to release 8 specifications on the PCC. The combinations of downlink carrier aggregation supported by this device are listed in below.

1. This device supports carrier aggregation on uplink and downlink for inter and intra band. For the device supports combination bands and configurations are according to 3GPP and the combinations list as below table.
2. All permutations exist. No restrictions on Pcell & Scell combinations. Only LTE Band 29 and band 46 is limited to Scell.
3. The gray color table is covered by other combinations and no need to verify power.

8.6.1 Downlink Bandwidth Combination Sets for Intra-Band CA

E-UTRA CA Configuration	
DL Intra-Band Contiguous CA	DL Intra-Band Non-Contiguous CA
CA_2B	CA_2A-2A
CA_2C	CA_4A-4A
CA_4B	CA_25A-25A
CA_4C	CA_41A-41A
CA_5B	CA_66A-66A
CA_12B	
CA_41C	
CA_66B	
CA_66C	
CA_71B	

8.6.2 Downlink Bandwidth Combination Sets for Inter-Band CA

E-UTRA CA Configuration				
DL Inter-Band (2Bands, 2CC)	DL Inter-Band (2Bands, 3CC)	DL Inter-Band (3Bands, 3CC)	DL Inter-Band (3Bands, 4CC)	DL Inter-Band (4Bands, 4CC)
CA_2A-4A	CA_2C_n41A			
CA_2A-5A	CA_2C_n71A			
CA_2A-66A	CA_66C_n71A			
CA_4A-5A				
CA_4A-12A				
CA_5A-66A				
CA_2A_n41A				
CA_2A_n66A				
CA_2A_n71A				
CA_66A_n25A				
CA_66A_n41A				
CA_66A_n71A				

8.6.3 Power Confirmation for SAR test Exclusion for LTE Downlink CA

According to KDB 941225 D05A, the uplink maximum output power below was measured with downlink CA active on the channel with highest measured maximum output power when downlink CA is inactive. The downlink SCC channel was paired with the uplink channel as normal operation. For intra-band contiguous CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing per section 5.4.1A of 3GPP TS36.521. For intra-band non-contiguous CA, the downlink channel spacing between the component carriers was set to maximum separation from PCC and remain fully within the downlink transmission band. For Inter-band CA, the SCC downlink channel was set to near the middle of its transmission band.

EUT without Power Reduction (Full power)

Power Measurements for Intra-Band Contiguous Downlink CA

CA Combination	PCC								SCC1				Power(dBm)	
	LTE	BW	UL Ch.	UL Freq.	RB Size	RB Offset	DL Ch.	DL Freq.	LTE	BW	DL	DL Freq.	Single Carrier	Tx Power
	Band	(MHz)		(MHz)				(MHz)	Band	(MHz)	Ch.	(MHz)	Tx Power	with DL-CA Active
2C	2	20M	18900	1880	1	49	900	1960	2	20M	702	1940.2	19.25	19.06
2B	2	15M	18900	1880	1	0	900	1960	2	5M	807	1950.7	19.15	19.09
4B	4	15M	20175	1732	1	49	2175	2132	4	5M	2082	2122.7	19.48	19.33
4C	4	20M	20175	1732	1	49	2175	2132	4	20M	1977	2112.2	19.48	19.28
5B	4	5M	20525	836.5	1	0	2525	881.5	5	5M	2432	850.0	23.18	22.91
12B	12	5M	23095	707.5	1	0	5095	737.5	12	5M	5002	728.2	23.19	23.01
41C	41	20M	41490	2680	1	99	41490	2680	41	20M	41292	2660.2	23.28	23.26
66B	66	15M	132047	1717.5	1	0	66511	2117.5	66	5M	66604	2126.8	19.5	19.28
66C	66	20M	132322	1745	1	49	66786	2145	66	20M	66588	2125.2	19.49	19.3
71B	71	15M	133197	670.5	1	0	68661	624.5	71	5M	68568	615.2	23.19	22.93

Power Measurements for Intra-Band Non-Contiguous Downlink CA

CA Combination	PCC								SCC1				Power(dBm)	
	LTE	BW	UL Ch.	UL Freq.	RB Size	RB Offset	DL Ch.	DL Freq.	LTE	BW	DL Ch.	DL Freq.	Single Carrier	Tx Power
	Band	(MHz)		(MHz)				(MHz)	Band	(MHz)		(MHz)	Tx Power	with DL-CA Active
2A-2A	2	20M	18900	1880	1	49	900	1960	2	1.4M	607	1930.7	19.25	18.95
4A-4A	4	20M	20175	1732	1	49	2175	2132	4	1.4M	1957	2110.7	19.48	19.46
25A-25A	25	15M	26365	1882.5	1	49	8365	1962.5	25	1.4M	8047	1930.7	18.95	18.91
41A-41A	41	20M	41490	2680	1	99	41490	2680	41	5M	39675	2498.5	23.28	22.98
66A-66A	66	20M	132322	1745	1	49	66786	2145	66	1.4M	66443	2110.7	19.49	19.34

Power Measurements for Inter-Band Non-Contiguous Downlink CA (Two Band 2CC)

CA Combination	PCC								SCC1				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
2A-4A	2	20M	18900	1880	1	49	900	1960	4	20M	2175	2132	19.25	19.03
2A-5A	2	20M	18900	1880	1	49	900	1960	5	10M	2525	881.5	19.25	19.07
2A-66A	2	20M	18900	1880	1	49	900	1960	66	20M	66786	2145	19.25	19.04
4A-5A	4	20M	20175	1732	1	49	2175	2132	5	10M	2525	881.5	19.48	19.1
4A-12A	4	20M	20175	1732	1	49	2175	2132	12	10M	5095	737.5	19.48	18.99
5A-66A	5	10M	20450	829	1	99	2450	874	66	20M	66786	2145	23.13	22.98
CA Combination	PCC								SCC1				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	NR Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
2A_n41A	2	20M	18900	1880	1	49	900	1960	n41	100M	518598	2592.99	19.25	18.76
2A_n66A	2	20M	18900	1880	1	49	900	1960	n66	40M	429000	2145	19.25	18.95
2A_n71A	2	20M	18900	1880	1	49	900	1960	n71	20M	126900	634.5	19.25	18.97
66A_n25A	66	20M	132322	1745	1	49	66786	2145	n25	20M	392500	1962.5	19.49	19.35
66A_n41A	66	20M	132322	1745	1	49	66786	2145	n41	100M	518598	2592.99	19.49	19.11
66A_n71A	66	20M	132322	1745	1	49	66786	2145	n71	20M	126900	634.5	19.49	19.19

Power Measurements for Inter-Band Non-Contiguous Downlink CA (Two Band 3CC)

CA Combination	PCC								SCC1				SCC2				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	NR Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier	Tx Power with DL-CA Active
																	Tx Power	
2C_n41A	2	20M	18900	1880	1	49	900	1960	2	20M	702	1940.2	n41	100M	518598	2592.99	19.25	19.09
2C_n71A	2	20M	18900	1880	1	49	900	1960	2	20M	702	1940.2	n71	20M	126900	634.5	19.25	18.81
66C_n71A	66	20M	132322	1745	1	49	66786	2145	66	20M	66588	2125.2	n71	20M	126900	634.5	19.49	19.34

Summary for SAR Test Exclusion for LTE Downlink CA

Per power confirmation results in above, the uplink maximum output power with downlink CA active remains within the specified tune-up tolerance and not more than 0.25 dB higher than the maximum output power with downlink CA inactive. According to KDB 941225 D05A, the SAR test exclusion applies to LTE downlink CA operation.