

8 CONDUCTED RF OUPUT POWER

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8.1 GSM Output Power

GSM 850									
GSM850 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Division Factors	Frame-Averaged power (dBm)			Tune-up Power(dBm)
Channel	128	190	251			128	190	251	
Frequency (MHz)	824.2	836.6	848.8			824.2	836.6	848.8	
GPRS (GMSK, 1-Slot)	29.96	29.88	29.85	31.00	9.19	20.77	20.69	20.66	21.81
GPRS (GMSK, 2-Slots)	29.96	29.89	29.86	31.00	6.13	23.83	23.76	23.73	24.87
GPRS (GMSK, 3-Slots)	28.95	28.88	28.82	30.00	4.42	24.53	24.46	24.40	25.58
GPRS (GMSK, 4-Slots)	27.95	28.00	27.94	29.00	3.18	24.77	24.82	24.76	25.82
EGPRS (8PSK, 1-Slot)	24.65	24.99	24.38	26.00	9.19	15.46	15.80	15.19	16.81
EGPRS (8PSK, 2-Slots)	24.59	24.89	26.39	26.00	6.13	18.46	18.76	20.26	19.87
EGPRS (8PSK, 3-Slots)	24.21	24.42	24.19	25.50	4.42	19.79	20.00	19.77	21.08
EGPRS (8PSK, 4-Slots)	24.14	24.21	23.93	25.00	3.18	20.96	21.03	20.75	21.82

8.1 GSM Output Power

GSM 1900									
GSM1900 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Division Factors	Frame-Averaged power(dBm)			Tune-up Power(dBm)
Channel	512	661	810			512	661	810	
Frequency (MHz)	1850.2	1880	1909.8			1850.2	1880	1909.8	
GPRS (GMSK, 1-Slot)	27.17	27.03	26.86	28.00	9.19	17.98	17.84	17.67	18.81
GPRS (GMSK, 2-Slots)	26.57	26.39	26.32	27.50	6.13	20.44	20.26	20.19	21.37
GPRS (GMSK, 3-Slots)	25.22	24.94	24.81	26.00	4.42	20.80	20.52	20.39	21.58
GPRS (GMSK, 4-Slots)	24.02	24.10	24.03	25.00	3.18	20.84	20.92	20.85	21.82
EGPRS (8PSK, 1-Slot)	24.87	24.44	24.13	25.50	9.19	15.68	15.25	14.94	16.31
EGPRS (8PSK, 2-Slots)	23.23	23.19	22.79	24.00	6.13	17.10	17.06	16.66	17.87
EGPRS (8PSK, 3-Slots)	22.23	22.24	22.00	23.00	4.42	17.81	17.82	17.58	18.58
EGPRS (8PSK, 4-Slots)	21.34	21.12	20.67	22.00	3.18	18.16	17.94	17.49	18.82

8.2 WCDMA Output Power

WCDMA II				
Band	Band 2			Tune-up Limit Power(dBm)
TX Channel	9262	9400	9538	
RX Channel	9662	9800	9938	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	19.16	19.46	19.38	20.00
HSDPA Subtest-1	19.28	19.30	19.21	20.00
HSDPA Subtest-2	19.35	19.10	19.05	20.00
HSDPA Subtest-3	18.14	18.59	18.60	19.50
HSDPA Subtest-4	18.22	18.30	18.16	19.50
HSUPA Subtest-1	18.99	19.00	18.87	20.00
HSUPA Subtest-2	19.15	18.74	18.72	20.00
HSUPA Subtest-3	18.70	18.29	18.18	19.50
HSUPA Subtest-4	18.72	18.26	18.20	18.00
HSUPA Subtest-5	19.19	19.26	19.21	20.00

8.2 WCDMA Output Power

WCDMA IV				
Band	Band 4			Tune-up Limit Power(dBm)
TX Channel	1312	1413	1513	
RX Channel	1537	1638	1738	
Frequency	1712.40	1732.60	1752.60	
RMC 12.2Kbps	22.18	22.25	22.18	23.00
HSDPA Subtest-1	21.90	22.16	22.21	23.00
HSDPA Subtest-2	21.84	22.23	22.15	23.00
HSDPA Subtest-3	21.77	22.18	22.20	22.50
HSDPA Subtest-4	21.78	22.17	22.19	22.50
HSUPA Subtest-1	22.15	22.21	22.04	23.00
HSUPA Subtest-2	20.06	20.13	20.05	21.00
HSUPA Subtest-3	21.07	21.04	21.12	22.00
HSUPA Subtest-4	20.07	20.11	20.04	21.00
HSUPA Subtest-5	22.10	22.14	22.14	23.00

8.2 WCDMA Output Power

WCDMA V				
Band	Band 5			Tune-up Limit Power(dBm)
TX Channel	4132	4182	4233	
RX Channel	4357	4407	4458	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	23.05	23.07	23.05	24.00
HSDPA Subtest-1	22.48	22.56	22.11	23.50
HSDPA Subtest-2	22.62	22.79	22.35	23.50
HSDPA Subtest-3	22.31	22.35	22.08	23.00
HSDPA Subtest-4	22.17	22.34	21.87	23.00
HSUPA Subtest-1	22.36	22.46	22.08	23.50
HSUPA Subtest-2	20.34	20.46	20.09	21.50
HSUPA Subtest-3	21.40	21.54	21.12	22.50
HSUPA Subtest-4	20.32	20.52	20.10	21.50
HSUPA Subtest-5	22.41	22.47	22.06	23.50

8.3.1 LTE Band2 Output Power

LTE B2 Full							
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	1	0	QPSK	19.18	19.46	19.28	20.50
		49	QPSK	19.32	19.43	19.03	20.50
		99	QPSK	19.33	19.37	19.29	20.50
	50	0	QPSK	18.20	18.51	18.29	19.50
		24	QPSK	18.33	18.38	18.44	19.50
		50	QPSK	18.36	18.36	18.35	19.50
20	100	0	QPSK	18.25	18.20	18.27	19.50
	1	0	16QAM	18.42	18.07	18.90	19.50
		49	16QAM	18.50	18.05	18.88	19.50
		99	16QAM	18.54	18.18	19.08	19.50
	50	0	16QAM	17.32	17.41	17.49	18.50
		24	16QAM	17.41	17.41	17.34	18.50
		50	16QAM	17.50	17.37	17.41	18.50
	100	0	16QAM	17.38	17.42	17.38	18.50
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	1	0	QPSK	18.98	19.45	19.27	20.50
		37	QPSK	19.14	19.33	19.26	20.50
		74	QPSK	19.17	19.30	19.33	20.50
	36	0	QPSK	18.12	18.17	18.33	19.50
		20	QPSK	18.30	18.34	18.43	19.50
		39	QPSK	18.15	18.27	18.42	19.50
15	75	0	QPSK	18.24	18.28	18.27	19.50
	1	0	16QAM	18.82	19.35	19.33	19.50
		37	16QAM	18.87	19.31	19.35	19.50
		74	16QAM	18.98	19.29	19.31	19.50
	36	0	16QAM	17.23	17.48	17.40	18.50
		20	16QAM	17.39	17.47	17.41	18.50
		39	16QAM	17.35	17.52	17.54	18.50
	75	0	16QAM	17.29	17.41	17.53	18.50
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	1	0	QPSK	19.17	19.44	19.32	20.50
		25	QPSK	19.08	19.29	19.40	20.50
		49	QPSK	19.11	19.32	19.21	20.50
	25	0	QPSK	18.03	18.24	18.38	19.50
		12	QPSK	18.16	18.25	18.33	19.50
		25	QPSK	18.34	18.29	18.41	19.50
10	50	0	QPSK	18.22	18.27	18.39	19.50
	1	0	16QAM	18.96	18.43	18.75	19.50
		25	16QAM	18.96	18.50	18.84	19.50
		49	16QAM	18.98	18.52	18.74	19.50
	25	0	16QAM	17.15	17.46	17.67	18.50
		12	16QAM	16.99	17.35	17.61	18.50
		25	16QAM	17.22	17.46	17.62	18.50
	50	0	16QAM	17.15	17.42	17.40	18.50

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	1	0	QPSK	19.10	19.39	19.30	20.50
		12	QPSK	19.07	19.33	19.27	20.50
		24	QPSK	19.05	19.36	19.28	20.50
	12	0	QPSK	18.29	18.26	18.27	19.50
		7	QPSK	17.93	18.34	18.39	19.50
		13	QPSK	18.14	18.33	18.43	19.50
	25	0	QPSK	18.26	18.20	18.25	19.50
5	1	0	16QAM	17.89	18.11	18.75	19.50
		12	16QAM	17.91	18.15	18.72	19.50
		24	16QAM	18.02	18.17	18.88	19.50
	12	0	16QAM	17.25	17.39	17.41	18.50
		7	16QAM	17.22	17.38	17.39	18.50
		13	16QAM	17.21	17.43	17.41	18.50
	25	0	16QAM	17.28	17.44	17.55	18.50
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	1	0	QPSK	19.02	19.36	19.33	20.50
		8	QPSK	19.11	19.35	19.28	20.50
		14	QPSK	19.16	19.24	19.31	20.50
	8	0	QPSK	18.23	18.18	18.38	19.50
		4	QPSK	18.24	18.24	18.44	19.50
		7	QPSK	18.14	18.29	18.42	19.50
	15	0	QPSK	18.21	18.33	18.37	19.50
3	1	0	16QAM	18.96	17.78	18.53	19.50
		8	16QAM	18.85	17.84	18.52	19.50
		14	16QAM	18.92	17.92	18.73	19.50
	8	0	16QAM	17.24	17.38	17.43	18.50
		4	16QAM	17.19	17.38	17.46	18.50
		7	16QAM	17.16	17.43	17.53	18.50
	15	0	16QAM	17.33	17.40	17.45	18.50
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	1	0	QPSK	19.37	19.42	19.28	20.50
		3	QPSK	19.37	19.22	19.27	20.50
		5	QPSK	19.33	19.30	19.29	20.50
	3	0	QPSK	19.11	19.27	19.33	20.50
		1	QPSK	19.22	19.31	19.39	20.50
		3	QPSK	19.12	19.23	19.38	20.50
	6	0	QPSK	18.13	18.29	18.42	19.50
1.4	1	0	16QAM	19.22	18.10	19.37	19.50
		3	16QAM	19.25	18.14	19.36	19.50
		5	16QAM	19.21	18.06	19.35	19.50
	3	0	16QAM	18.29	18.54	18.48	19.50
		1	16QAM	18.33	18.59	18.46	19.50
		3	16QAM	18.31	18.51	18.47	19.50
	6	0	16QAM	17.44	17.38	17.54	18.50

8.3.2 LTE Band4 Output Power

LTE B4 Full							
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
Frequency (MHz)				1720	1732.5	1745	(dBm)
20	1	0	QPSK	23.45	23.56	23.47	24.50
		49	QPSK	23.32	23.38	23.36	24.50
		99	QPSK	23.28	23.34	23.22	24.50
	50	0	QPSK	22.27	22.39	22.24	23.50
		24	QPSK	22.33	22.36	22.24	23.50
		50	QPSK	22.16	22.25	22.18	23.50
	100	0	QPSK	22.24	22.29	22.28	23.50
20	1	0	16QAM	23.13	23.19	23.04	23.50
		49	16QAM	23.10	23.12	23.10	23.50
		99	16QAM	23.05	23.12	23.05	23.50
	50	0	16QAM	21.33	21.42	21.35	22.50
		24	16QAM	21.27	21.41	21.26	22.50
		50	16QAM	21.27	21.35	21.29	22.50
	100	0	16QAM	21.29	21.36	21.24	22.50
20	1	0	64QAM	21.29	21.39	21.26	22.50
		49	64QAM	21.19	21.38	21.18	22.50
		99	64QAM	21.19	21.33	21.14	22.50
	50	0	64QAM	20.27	20.41	20.22	21.50
		24	64QAM	20.18	20.30	20.20	21.50
		50	64QAM	20.17	20.27	20.19	21.50
	100	0	64QAM	20.24	20.27	20.23	21.50
Channel				20025	20175	20325	Tune-up limit
Frequency (MHz)				1717.5	1732.5	1747.5	(dBm)
15	1	0	QPSK	23.31	23.42	23.35	24.50
		37	QPSK	23.31	23.24	23.29	24.50
		74	QPSK	23.16	23.26	23.13	24.50
	36	0	QPSK	22.25	22.29	22.23	23.50
		20	QPSK	22.31	22.29	22.14	23.50
		39	QPSK	22.06	22.19	22.05	23.50
	75	0	QPSK	22.14	22.28	22.19	23.50
15	1	0	16QAM	23.03	23.07	22.94	23.50
		37	16QAM	23.01	23.06	23.08	23.50
		74	16QAM	23.02	23.04	22.93	23.50
	36	0	16QAM	21.31	21.33	21.23	22.50
		20	16QAM	21.22	21.28	21.14	22.50
		39	16QAM	21.24	21.23	21.28	22.50
	75	0	16QAM	21.23	21.35	21.09	22.50
15	1	0	64QAM	21.27	21.39	21.20	22.50
		37	64QAM	21.19	21.33	21.18	22.50
		74	64QAM	21.25	21.26	21.15	22.50
	36	0	64QAM	20.32	20.27	20.29	21.50
		20	64QAM	20.17	20.30	20.20	21.50
		39	64QAM	20.15	20.26	20.25	21.50
	75	0	64QAM	20.24	20.24	20.13	21.50
Channel				20000	20175	20350	Tune-up limit
Frequency (MHz)				1715	1732.5	1750	(dBm)
10	1	0	QPSK	23.30	23.48	23.44	24.50
		25	QPSK	23.20	23.32	23.34	24.50
		49	QPSK	23.20	23.19	23.11	24.50
	25	0	QPSK	22.25	22.36	22.14	23.50
		12	QPSK	22.21	22.28	22.18	23.50
		25	QPSK	22.15	22.21	22.17	23.50
	50	0	QPSK	22.13	22.16	22.22	23.50
10	1	0	16QAM	23.04	23.16	22.94	23.50
		25	16QAM	23.06	23.03	23.03	23.50
		49	16QAM	22.95	23.06	22.92	23.50
	25	0	16QAM	21.19	21.40	21.29	22.50
		12	16QAM	21.12	21.34	21.21	22.50
		25	16QAM	21.12	21.33	21.14	22.50
	50	0	16QAM	21.18	21.21	21.22	22.50
10	1	0	64QAM	21.23	21.27	21.34	22.50
		25	64QAM	21.22	21.26	21.12	22.50
		49	64QAM	21.13	21.23	21.23	22.50
	25	0	64QAM	20.24	20.28	20.34	21.50
		12	64QAM	20.12	20.28	20.20	21.50
		25	64QAM	20.24	20.25	20.23	21.50
	50	0	64QAM	20.20	20.27	20.13	21.50

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	1	0	QPSK	23.35	23.49	23.39	24.50
		12	QPSK	23.29	23.25	23.21	24.50
		24	QPSK	23.15	23.23	23.19	24.50
	12	0	QPSK	22.24	22.26	22.21	23.50
		7	QPSK	22.30	22.27	22.22	23.50
		13	QPSK	22.06	22.11	22.06	23.50
	25	0	QPSK	22.13	22.19	22.22	23.50
5	1	0	16QAM	23.00	23.09	23.02	23.50
		12	16QAM	23.05	22.97	23.01	23.50
		24	16QAM	22.90	22.98	23.01	23.50
	12	0	16QAM	21.29	21.36	21.26	22.50
		7	16QAM	21.21	21.31	21.23	22.50
		13	16QAM	21.15	21.33	21.17	22.50
	25	0	16QAM	21.27	21.33	21.17	22.50
5	1	0	64QAM	21.30	21.32	21.20	22.50
		12	64QAM	21.16	21.26	21.24	22.50
		24	64QAM	21.14	21.20	21.20	22.50
	12	0	64QAM	20.30	20.38	20.28	21.50
		7	64QAM	20.21	20.27	20.20	21.50
		13	64QAM	20.25	20.26	20.23	21.50
	25	0	64QAM	20.25	20.32	20.10	21.50
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	1	0	QPSK	23.38	23.41	23.39	24.50
		8	QPSK	23.17	23.24	23.23	24.50
		14	QPSK	23.24	23.33	23.07	24.50
	8	0	QPSK	22.19	22.24	22.23	23.50
		4	QPSK	22.19	22.21	22.11	23.50
		7	QPSK	22.11	22.18	22.09	23.50
	15	0	QPSK	22.19	22.22	22.20	23.50
3	1	0	16QAM	23.02	23.15	22.93	23.50
		8	16QAM	23.05	22.97	23.07	23.50
		14	16QAM	22.94	22.97	22.94	23.50
	8	0	16QAM	21.31	21.33	21.33	22.50
		4	16QAM	21.23	21.32	21.12	22.50
		7	16QAM	21.18	21.32	21.16	22.50
	15	0	16QAM	21.22	21.29	21.17	22.50
3	1	0	64QAM	21.21	21.28	21.24	22.50
		8	64QAM	21.15	21.38	21.13	22.50
		14	64QAM	21.12	21.34	21.18	22.50
	8	0	64QAM	20.23	20.37	20.31	21.50
		4	64QAM	20.22	20.33	20.19	21.50
		7	64QAM	20.25	20.34	20.18	21.50
	15	0	64QAM	20.25	20.32	20.18	21.50
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	1	0	QPSK	23.46	23.53	23.38	24.50
		3	QPSK	23.29	23.36	23.35	24.50
		5	QPSK	23.17	23.29	23.26	24.50
	3	0	QPSK	23.14	23.24	23.15	24.50
		1	QPSK	23.20	23.24	23.17	24.50
		3	QPSK	23.19	23.26	23.14	24.50
	6	0	QPSK	22.39	22.42	22.30	23.50
1.4	1	0	16QAM	23.07	23.20	23.06	23.50
		3	16QAM	23.21	23.23	23.17	23.50
		5	16QAM	23.10	23.15	23.05	23.50
	3	0	16QAM	22.51	22.55	22.48	23.50
		1	16QAM	22.38	22.42	22.36	23.50
		3	16QAM	22.29	22.39	22.36	23.50
	6	0	16QAM	21.42	21.50	21.47	22.50
1.4	1	0	64QAM	21.23	21.35	21.21	22.50
		3	64QAM	21.17	21.33	21.12	22.50
		5	64QAM	21.20	21.27	21.21	22.50
	3	0	64QAM	21.21	21.40	21.20	22.50
		1	64QAM	21.16	21.38	21.15	22.50
		3	64QAM	21.12	21.34	21.15	22.50
	6	0	64QAM	20.21	20.36	20.28	21.50

8.3.3 LTE Band5 Output Power

LTE B5 Full							
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	1	0	QPSK	23.31	23.57	23.32	24.50
		25	QPSK	23.39	23.54	23.47	24.50
		49	QPSK	23.52	23.46	23.51	24.50
	25	0	QPSK	22.40	22.43	22.29	23.50
		12	QPSK	22.32	22.33	22.26	23.50
		25	QPSK	22.36	22.24	22.19	23.50
	50	0	QPSK	22.35	22.39	22.27	23.50
10	1	0	16QAM	22.46	22.59	22.55	23.50
		25	16QAM	22.38	22.42	22.28	23.50
		49	16QAM	22.42	22.47	22.44	23.50
	25	0	16QAM	21.47	21.58	21.52	22.50
		12	16QAM	21.58	21.64	21.60	22.50
		25	16QAM	21.58	21.69	21.60	22.50
	50	0	16QAM	21.51	21.62	21.56	22.50
10	1	0	64QAM	21.46	21.44	21.47	22.50
		25	64QAM	21.44	21.54	21.57	22.50
		49	64QAM	21.57	21.65	21.57	22.50
	25	0	64QAM	20.32	20.47	20.51	21.50
		12	64QAM	20.48	20.52	20.50	21.50
		25	64QAM	20.43	20.65	20.45	21.50
	50	0	64QAM	20.49	20.57	20.44	21.50
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	1	0	QPSK	23.43	23.57	23.49	24.50
		12	QPSK	23.38	23.54	23.38	24.50
		24	QPSK	23.41	23.55	23.46	24.50
	12	0	QPSK	22.47	22.46	22.60	23.50
		7	QPSK	22.49	22.47	22.48	23.50
		13	QPSK	22.46	22.47	22.60	23.50
25	0	QPSK	22.50	22.45	22.54	23.50	
5	1	0	16QAM	22.71	23.26	23.18	23.50
		12	16QAM	22.71	23.03	23.20	23.50
		24	16QAM	22.67	23.34	23.49	23.50
	12	0	16QAM	21.45	21.50	21.52	22.50
		7	16QAM	21.50	21.55	21.66	22.50
		13	16QAM	21.53	21.49	21.66	22.50
25	0	16QAM	21.73	21.59	21.71	22.50	
5	1	0	64QAM	21.43	21.54	21.46	22.50
		12	64QAM	21.53	21.53	21.52	22.50
		24	64QAM	21.53	21.54	21.49	22.50
	12	0	64QAM	20.45	20.46	20.41	21.50
		7	64QAM	20.46	20.52	20.50	21.50
		13	64QAM	20.53	20.66	20.51	21.50
25	0	64QAM	20.42	20.57	20.43	21.50	

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	1	0	QPSK	23.33	23.53	23.46	24.50
		8	QPSK	23.27	23.45	23.34	24.50
		14	QPSK	23.31	23.51	23.35	24.50
	8	0	QPSK	22.34	22.35	22.58	23.50
		4	QPSK	22.42	22.32	22.47	23.50
		7	QPSK	22.43	22.33	22.56	23.50
	15	0	QPSK	22.43	22.36	22.45	23.50
3	1	0	16QAM	22.61	23.12	23.10	23.50
		8	16QAM	22.68	22.91	23.14	23.50
		14	16QAM	22.66	23.23	23.43	23.50
	8	0	16QAM	21.40	21.44	21.41	22.50
		4	16QAM	21.48	21.48	21.58	22.50
		7	16QAM	21.40	21.47	21.60	22.50
	15	0	16QAM	21.66	21.50	21.58	22.50
3	1	0	64QAM	21.32	21.51	21.37	22.50
		8	64QAM	21.48	21.63	21.49	22.50
		14	64QAM	21.45	21.63	21.56	22.50
	8	0	64QAM	20.42	20.45	20.48	21.50
		4	64QAM	20.45	20.54	20.46	21.50
		7	64QAM	20.51	20.68	20.57	21.50
	15	0	64QAM	20.38	20.53	20.51	21.50
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	1	0	QPSK	23.40	23.47	23.37	24.50
		3	QPSK	23.53	23.54	23.49	24.50
		5	QPSK	23.41	23.52	23.39	24.50
	3	0	QPSK	23.41	23.44	23.43	24.50
		1	QPSK	23.43	23.47	23.45	24.50
		3	QPSK	23.27	23.42	23.34	24.50
1.4	6	0	QPSK	22.39	22.47	22.46	23.50
	1	0	16QAM	23.09	23.11	23.07	23.50
		3	16QAM	23.22	23.23	23.13	23.50
		5	16QAM	23.20	23.24	23.22	23.50
	3	0	16QAM	22.43	22.50	22.46	23.50
		1	16QAM	22.32	22.47	22.43	23.50
		3	16QAM	22.38	22.50	22.37	23.50
1.4	6	0	16QAM	21.25	21.35	21.33	22.50
	1	0	64QAM	21.43	21.57	21.45	22.50
		3	64QAM	21.45	21.54	21.45	22.50
		5	64QAM	21.57	21.56	21.52	22.50
	3	0	64QAM	21.46	21.45	21.40	22.50
		1	64QAM	21.43	21.51	21.50	22.50
		3	64QAM	21.44	21.66	21.46	22.50
1.4	6	0	64QAM	20.44	20.51	20.44	21.50

8.3.4 LTE Band7 Output Power

LTE B7 Full							
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	1	0	QPSK	23.46	23.52	23.40	24.50
		49	QPSK	23.23	23.37	23.27	24.50
		99	QPSK	23.24	23.34	23.19	24.50
	50	0	QPSK	22.35	22.40	22.28	23.50
		24	QPSK	22.29	22.35	22.27	23.50
		50	QPSK	22.29	22.21	22.29	23.50
	100	0	QPSK	22.36	22.39	22.25	23.50
20	1	0	16QAM	23.07	23.19	23.11	23.50
		49	16QAM	23.05	23.20	23.09	23.50
		99	16QAM	23.14	23.24	23.11	23.50
	50	0	16QAM	21.38	21.52	21.42	22.50
		24	16QAM	21.46	21.55	21.40	22.50
		50	16QAM	21.54	21.61	21.49	22.50
	100	0	16QAM	21.64	21.67	21.55	22.50
20	1	0	64QAM	21.32	21.38	21.32	22.50
		49	64QAM	21.32	21.45	21.26	22.50
		99	64QAM	21.52	21.50	21.37	22.50
	50	0	64QAM	20.31	20.40	20.27	21.50
		24	64QAM	20.43	20.44	20.36	21.50
		50	64QAM	20.40	20.53	20.45	21.50
	100	0	64QAM	20.56	20.65	20.43	21.50
Channel				20825	21100	21375	Tune-up power(dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	1	0	QPSK	23.36	23.40	23.26	24.50
		37	QPSK	23.10	23.30	23.13	24.50
		74	QPSK	23.17	23.31	23.05	24.50
	36	0	QPSK	22.23	22.36	22.24	23.50
		20	QPSK	22.24	22.24	22.19	23.50
		39	QPSK	22.19	22.27	22.18	23.50
	75	0	QPSK	22.35	22.36	22.10	23.50
15	1	0	16QAM	22.93	23.15	22.97	23.50
		37	16QAM	22.94	23.09	22.94	23.50
		74	16QAM	23.08	23.11	22.98	23.50
	36	0	16QAM	21.35	21.44	21.37	22.50
		20	16QAM	21.34	21.41	21.38	22.50
		39	16QAM	21.47	21.50	21.39	22.50
	75	0	16QAM	21.52	21.53	21.53	22.50
15	1	0	64QAM	21.30	21.46	21.35	22.50
		37	64QAM	21.32	21.41	21.29	22.50
		74	64QAM	21.44	21.55	21.43	22.50
	36	0	64QAM	20.33	20.45	20.40	21.50
		20	64QAM	20.33	20.43	20.32	21.50
		39	64QAM	20.49	20.56	20.44	21.50
	75	0	64QAM	20.51	20.54	20.43	21.50

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20800	21100	21400	Tune-up power(dBm)
Frequency (MHz)				2505	2535	2565	
10	1	0	QPSK	23.34	23.40	23.29	24.50
		25	QPSK	23.15	23.30	23.17	24.50
		49	QPSK	23.09	23.24	23.07	24.50
	25	0	QPSK	22.24	22.25	22.21	23.50
		12	QPSK	22.24	22.24	22.20	23.50
		25	QPSK	22.27	22.31	22.14	23.50
	50	0	QPSK	22.34	22.31	22.10	23.50
10	1	0	16QAM	22.92	23.05	22.96	23.50
		25	16QAM	22.91	23.18	22.95	23.50
		49	16QAM	22.99	23.10	22.97	23.50
	25	0	16QAM	21.23	21.42	21.33	22.50
		12	16QAM	21.44	21.51	21.33	22.50
		25	16QAM	21.41	21.55	21.34	22.50
	50	0	16QAM	21.58	21.61	21.41	22.50
10	1	0	64QAM	21.23	21.44	21.28	22.50
		25	64QAM	21.44	21.54	21.28	22.50
		49	64QAM	21.49	21.50	21.43	22.50
	25	0	64QAM	20.31	20.49	20.41	21.50
		12	64QAM	20.36	20.47	20.37	21.50
		25	64QAM	20.53	20.52	20.44	21.50
	50	0	64QAM	20.56	20.57	20.41	21.50
Channel				20775	21100	21425	Tune-up power(dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	1	0	QPSK	23.34	23.44	23.31	24.50
		12	QPSK	23.10	23.28	23.16	24.50
		24	QPSK	23.12	23.33	23.09	24.50
	12	0	QPSK	22.33	22.33	22.24	23.50
		7	QPSK	22.28	22.28	22.16	23.50
		13	QPSK	22.24	22.30	22.15	23.50
25	0	QPSK	22.27	22.33	22.23	23.50	
5	1	0	16QAM	23.06	23.04	23.03	23.50
		12	16QAM	22.90	23.12	23.03	23.50
		24	16QAM	23.01	23.10	22.97	23.50
	12	0	16QAM	21.32	21.50	21.41	22.50
		7	16QAM	21.45	21.53	21.33	22.50
		13	16QAM	21.41	21.49	21.42	22.50
25	0	16QAM	21.51	21.52	21.47	22.50	
5	1	0	64QAM	21.23	21.45	21.37	22.50
		12	64QAM	21.31	21.51	21.26	22.50
		24	64QAM	21.48	21.50	21.41	22.50
	12	0	64QAM	20.26	20.41	20.32	21.50
		7	64QAM	20.34	20.49	20.32	21.50
		13	64QAM	20.45	20.51	20.42	21.50
25	0	64QAM	20.63	20.54	20.51	21.50	

8.3.5 LTE Band38 Output Power

LTE B38 Full							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	1	0	QPSK	23.77	23.78	23.65	24.50
		49	QPSK	23.55	23.69	23.68	24.50
		99	QPSK	23.69	23.73	23.71	24.50
	50	0	QPSK	22.59	22.61	22.59	23.50
		24	QPSK	22.51	22.51	22.54	23.50
		50	QPSK	22.50	22.58	22.55	23.50
	100	0	QPSK	22.12	22.24	22.20	23.50
	20	0	16QAM	23.18	23.19	23.10	23.50
		49	16QAM	23.16	23.24	23.12	23.50
		99	16QAM	23.23	23.31	23.17	23.50
20	1	0	16QAM	21.57	21.68	21.62	22.50
		24	16QAM	21.72	21.82	21.74	22.50
		50	16QAM	21.67	21.72	21.68	22.50
	100	0	16QAM	21.70	21.78	21.68	22.50
	20	0	64QAM	21.42	21.65	21.60	22.50
		49	64QAM	21.71	21.72	21.68	22.50
		99	64QAM	21.56	21.63	21.60	22.50
	50	0	64QAM	20.50	20.53	20.50	21.50
		24	64QAM	20.58	20.68	20.62	21.50
		50	64QAM	20.54	20.67	20.62	21.50
	100	0	64QAM	20.67	20.76	20.65	21.50
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	1	0	QPSK	23.52	23.64	23.60	24.50
		37	QPSK	23.50	23.55	23.57	24.50
		74	QPSK	23.63	23.59	23.57	24.50
	36	0	QPSK	22.52	22.50	22.50	23.50
		20	QPSK	22.45	22.63	22.47	23.50
		39	QPSK	22.44	22.57	22.48	23.50
	75	0	QPSK	21.98	22.17	22.15	23.50
	15	0	16QAM	23.09	23.08	23.08	23.50
		37	16QAM	23.10	23.22	23.05	23.50
		74	16QAM	23.19	23.26	23.12	23.50
15	1	0	16QAM	21.42	21.65	21.54	22.50
		20	16QAM	21.66	21.71	21.59	22.50
		39	16QAM	21.63	21.59	21.59	22.50
	75	0	16QAM	21.68	21.76	21.66	22.50
	15	0	64QAM	21.51	21.63	21.59	22.50
		37	64QAM	21.71	21.68	21.67	22.50
		74	64QAM	21.57	21.70	21.54	22.50
	36	0	64QAM	20.53	20.66	20.59	21.50
		20	64QAM	20.69	20.69	20.65	21.50
		39	64QAM	20.61	20.68	20.53	21.50
	75	0	64QAM	20.61	20.68	20.58	21.50

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	1	0	QPSK	23.66	23.75	23.50	24.50
		25	QPSK	23.54	23.57	23.59	24.50
		49	QPSK	23.68	23.65	23.57	24.50
	25	0	QPSK	22.49	22.49	22.49	23.50
		12	QPSK	22.39	22.52	22.45	23.50
		25	QPSK	22.35	22.50	22.50	23.50
	50	0	QPSK	21.99	22.09	22.16	23.50
10	1	0	16QAM	23.06	23.16	22.97	23.50
		25	16QAM	23.09	23.17	23.03	23.50
		49	16QAM	23.12	23.29	23.05	23.50
	25	0	16QAM	21.53	21.54	21.53	22.50
		12	16QAM	21.58	21.69	21.72	22.50
		25	16QAM	21.58	21.68	21.54	22.50
	50	0	16QAM	21.62	21.76	21.57	22.50
10	1	0	64QAM	21.46	21.67	21.57	22.50
		25	64QAM	21.62	21.75	21.62	22.50
		49	64QAM	21.56	21.68	21.66	22.50
	25	0	64QAM	20.46	20.66	20.55	21.50
		12	64QAM	20.67	20.76	20.63	21.50
		25	64QAM	20.59	20.63	20.65	21.50
	50	0	64QAM	20.69	20.69	20.53	21.50
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	1	0	QPSK	23.63	23.68	23.54	24.50
		12	QPSK	23.46	23.57	23.65	24.50
		24	QPSK	23.60	23.70	23.58	24.50
	12	0	QPSK	22.58	22.59	22.55	23.50
		7	QPSK	22.47	22.56	22.45	23.50
		13	QPSK	22.45	22.50	22.46	23.50
	25	0	QPSK	22.01	22.11	22.12	23.50
5	1	0	16QAM	23.10	23.15	23.01	23.50
		12	16QAM	23.02	23.09	23.02	23.50
		24	16QAM	23.17	23.22	23.03	23.50
	12	0	16QAM	21.46	21.55	21.52	22.50
		7	16QAM	21.67	21.75	21.70	22.50
		13	16QAM	21.63	21.62	21.62	22.50
	25	0	16QAM	21.57	21.71	21.57	22.50
5	1	0	64QAM	21.54	21.61	21.49	22.50
		12	64QAM	21.70	21.69	21.69	22.50
		24	64QAM	21.55	21.63	21.65	22.50
	12	0	64QAM	20.52	20.61	20.61	21.50
		7	64QAM	20.68	20.73	20.65	21.50
		13	64QAM	20.61	20.64	20.57	21.50
	25	0	64QAM	20.62	20.77	20.64	21.50