

8 CONDUCTED RF OUPUT POWER

8.1	GSM Output Power
8.2	WCDMA Output Power
8.3	LTE Output Power
8.3.1	LTE Band2 Output Power
8.3.2	LTE Band4 Output Power
8.3.3	LTE Band5 Output Power
8.3.4	LTE Band7 Output Power
8.3.5	LTE Band12 Output Power
8.3.6	LTE Band13 Output Power
8.3.7	LTE Band17 Output Power
8.3.8	LTE Band66 Output Power
8.3.9	LTE Band38 Output Power
8.3.10	LTE Band41 Output Power
8.3.11	LTE Band42 Output Power
8.3.12	LTE CA-5B Output Power
8.3.13	LTE CA-7C Output Power
8.3.14	LTE CA-66C Output Power
8.3.15	LTE CA-38C Output Power
8.3.16	LTE CA-41C Output Power
8.4	NR Output Power
8.4.1	NR n5 Output Power
8.4.2	NR n7 Output Power
8.4.3	NR n12 Output Power
8.4.4	NR n66 Output Power
8.4.5	NR n38 Output Power
8.4.6	NR n41 Output Power
8.4.7	NR n77 Output Power
8.4.8	NR n78 Output Power

8.1 GSM Output Power

GSM 850 Full Power ANT3									
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	
GSM (GMSK, 1-Slot)	32.21	32.25	32.12	32.80	9.19	23.02	23.06	22.93	23.61
GPRS (GMSK, 1-Slot)	32.20	32.24	32.12	32.80	9.19	23.01	23.05	22.93	23.61
GPRS (GMSK, 2-Slots)	31.44	31.46	31.24	31.80	6.13	25.31	25.33	25.11	25.67
GPRS (GMSK, 3-Slots)	29.60	29.57	29.31	29.80	4.42	25.18	25.15	24.89	25.38
GPRS (GMSK, 4-Slots)	28.47	28.44	28.20	28.80	3.18	25.29	25.26	25.02	25.62
EGPRS (8PSK, 1-Slot)	32.18	32.19	32.10	32.50	9.19	22.99	23.00	22.91	23.31
EGPRS (8PSK, 2-Slots)	31.43	31.38	31.22	31.50	6.13	25.30	25.25	25.09	25.37
EGPRS (8PSK, 3-Slots)	29.60	29.52	29.30	27.00	4.42	25.18	25.10	24.88	22.58
EGPRS (8PSK, 4-Slots)	28.46	28.39	28.18	28.50	3.18	25.28	25.21	25.00	25.32

GSM 850 Full Power ANT4									
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	
GSM (GMSK, 1-Slot)	32.80	32.83	32.73	33.80	9.19	23.61	23.64	23.54	24.61
GPRS (GMSK, 1-Slot)	32.79	32.81	32.75	33.80	9.19	23.60	23.62	23.56	24.61
GPRS (GMSK, 2-Slots)	32.09	32.11	31.94	32.80	6.13	25.96	25.98	25.81	26.67
GPRS (GMSK, 3-Slots)	30.32	30.27	30.08	30.80	4.42	25.90	25.85	25.66	26.38
GPRS (GMSK, 4-Slots)	29.20	29.16	28.98	29.80	3.18	26.02	25.98	25.80	26.62
EGPRS (8PSK, 1-Slot)	32.79	32.80	32.73	33.00	9.19	23.60	23.61	23.54	23.81
EGPRS (8PSK, 2-Slots)	32.08	32.06	31.93	27.80	6.13	25.95	25.93	25.80	21.67
EGPRS (8PSK, 3-Slots)	30.28	30.26	30.07	25.80	4.42	25.86	25.84	25.65	21.38
EGPRS (8PSK, 4-Slots)	29.17	29.14	28.96	24.80	3.18	25.99	25.96	25.78	21.62

8.1 GSM Output Power

GSM 1900 Full Power ANT5									
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	
GSM (GMSK, 1-Slot)	30.01	29.96	30.06	30.50	9.19	20.82	20.77	20.87	21.31
GPRS (GMSK, 1-Slot)	30.00	29.95	30.04	30.50	9.19	20.81	20.76	20.85	21.31
GPRS (GMSK, 2-Slots)	29.24	29.20	29.32	29.50	6.13	23.11	23.07	23.19	23.37
GPRS (GMSK, 3-Slots)	27.51	27.54	27.45	28.00	4.42	23.09	23.12	23.03	23.58
GPRS (GMSK, 4-Slots)	26.37	26.36	26.49	26.50	3.18	23.19	23.18	23.31	23.32
EGPRS (8PSK, 1-Slot)	26.65	26.60	26.81	26.50	9.19	17.46	17.41	17.62	17.31
EGPRS (8PSK, 2-Slots)	26.56	26.54	26.73	26.50	6.13	20.43	20.41	20.60	20.37
EGPRS (8PSK, 3-Slots)	26.48	26.45	26.65	26.50	4.42	22.06	22.03	22.23	22.08
EGPRS (8PSK, 4-Slots)	26.38	26.21	26.57	26.50	3.18	23.20	23.03	23.39	23.32

GSM 1900 ANT6									
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	
GSM (GMSK, 1-Slot)	24.43	24.48	24.43	25.50	9.19	15.24	15.29	15.24	16.31
GPRS (GMSK, 1-Slot)	24.42	24.48	24.46	25.50	9.19	15.23	15.29	15.27	16.31
GPRS (GMSK, 2-Slots)	23.48	23.56	23.53	24.50	6.13	17.35	17.43	17.40	18.37
GPRS (GMSK, 3-Slots)	21.58	21.65	21.60	22.50	4.42	17.16	17.23	17.18	18.08
GPRS (GMSK, 4-Slots)	20.51	20.57	20.55	21.50	3.18	17.33	17.39	17.37	18.32
EGPRS (8PSK, 1-Slot)	24.44	24.45	24.44	25.50	9.19	15.25	15.26	15.25	16.31
EGPRS (8PSK, 2-Slots)	23.48	23.56	23.47	24.50	6.13	17.35	17.43	17.34	18.37
EGPRS (8PSK, 3-Slots)	21.57	21.62	21.53	22.50	4.42	17.15	17.20	17.11	18.08
EGPRS (8PSK, 4-Slots)	20.42	20.51	20.43	21.50	3.18	17.24	17.33	17.25	18.32

8.2 WCDMA Output Power

WCDMA II ANT5				
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	15.81	15.98	15.93	17.00
HSDPA Subtest-1	15.78	15.95	15.91	17.00
HSDPA Subtest-2	15.71	15.94	15.97	17.00
HSDPA Subtest-3	15.27	15.51	15.52	16.50
HSDPA Subtest-4	15.25	15.47	15.51	16.50
HSUPA Subtest-1	15.75	15.87	15.90	17.00
HSUPA Subtest-2	13.70	13.89	13.84	15.00
HSUPA Subtest-3	14.76	14.88	14.90	16.00
HSUPA Subtest-4	13.70	13.83	13.80	15.00
HSUPA Subtest-5	15.75	15.82	15.88	17.00

WCDMA II ANT6				
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	15.54	15.76	15.72	16.00
HSDPA Subtest-1	15.50	15.75	15.71	16.00
HSDPA Subtest-2	15.49	15.72	15.75	16.00
HSDPA Subtest-3	15.03	15.26	15.28	15.50
HSDPA Subtest-4	15.02	15.25	15.26	15.50
HSUPA Subtest-1	15.48	15.64	15.57	16.00
HSUPA Subtest-2	13.40	13.68	13.57	14.00
HSUPA Subtest-3	14.35	14.61	14.59	15.00
HSUPA Subtest-4	13.39	13.69	13.61	14.00
HSUPA Subtest-5	15.44	15.65	15.70	16.00

8.2 WCDMA Output Power

WCDMA IV ANT5				
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	15.16	15.24	14.92	16.00
HSDPA Subtest-1	15.22	15.06	14.98	16.00
HSDPA Subtest-2	15.20	15.08	14.97	16.00
HSDPA Subtest-3	14.75	14.62	14.51	15.50
HSDPA Subtest-4	14.73	14.60	14.48	15.50
HSUPA Subtest-1	15.07	14.97	14.97	16.00
HSUPA Subtest-2	13.21	12.93	12.89	14.00
HSUPA Subtest-3	14.17	14.05	13.91	15.00
HSUPA Subtest-4	13.07	12.94	12.96	14.00
HSUPA Subtest-5	15.08	14.93	14.83	16.00

WCDMA IV ANT6				
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	15.15	15.16	14.83	15.30
HSDPA Subtest-1	15.01	15.10	14.88	15.30
HSDPA Subtest-2	15.15	15.00	14.84	15.30
HSDPA Subtest-3	14.68	14.50	14.39	14.80
HSDPA Subtest-4	14.65	14.48	14.38	14.80
HSUPA Subtest-1	14.87	14.98	14.78	15.30
HSUPA Subtest-2	12.86	12.96	12.81	13.30
HSUPA Subtest-3	13.97	14.06	13.79	14.30
HSUPA Subtest-4	12.96	13.06	12.82	13.30
HSUPA Subtest-5	14.86	15.08	14.73	15.30

8.2 WCDMA Output Power

WCDMA V Full Power ANT3				
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	23.46	23.47	23.41	25.00
HSDPA Subtest-1	23.41	23.46	23.40	25.00
HSDPA Subtest-2	23.42	23.46	23.46	25.00
HSDPA Subtest-3	23.05	23.03	23.02	24.50
HSDPA Subtest-4	23.01	22.97	22.97	24.50
HSUPA Subtest-1	23.38	23.39	23.25	25.00
HSUPA Subtest-2	21.29	21.31	21.35	23.00
HSUPA Subtest-3	22.29	22.39	22.26	24.00
HSUPA Subtest-4	21.29	21.45	21.37	23.00
HSUPA Subtest-5	23.39	23.37	23.33	25.00

WCDMA V Full Power ANT4				
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	23.79	23.91	23.82	24.40
HSDPA Subtest-1	23.79	23.90	23.75	24.40
HSDPA Subtest-2	23.79	23.86	23.74	24.40
HSDPA Subtest-3	23.44	23.45	23.41	23.90
HSDPA Subtest-4	22.85	23.41	23.38	23.90
HSUPA Subtest-1	23.75	23.76	23.60	24.40
HSUPA Subtest-2	21.66	21.78	21.69	22.40
HSUPA Subtest-3	22.65	22.81	22.61	23.40
HSUPA Subtest-4	21.78	21.86	21.74	22.40
HSUPA Subtest-5	23.70	23.81	23.71	24.40

8.3.1 LTE Band2 Output Power

LTE B2 Full Power ANT5							
BW [MHz]	RB Size	RB Offset	Modulation	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	24.15	24.36	24.16	24.50
		49	QPSK	24.18	24.18	24.08	24.50
		99	QPSK	24.14	24.24	24.01	24.50
	50	0	QPSK	22.94	23.19	23.01	23.50
		24	QPSK	23.04	23.11	23.03	23.50
		50	QPSK	22.98	23.08	22.97	23.50
	100	0	QPSK	23.08	23.14	22.98	23.50
20	1	0	16QAM	23.19	23.28	23.16	23.50
		49	16QAM	23.20	23.37	23.09	23.50
		99	16QAM	23.17	23.39	23.07	23.50
	50	0	16QAM	22.03	22.38	22.14	22.50
		24	16QAM	22.10	22.37	22.23	22.50
		50	16QAM	22.04	22.33	22.06	22.50
	100	0	16QAM	22.04	22.26	21.93	22.50
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	1	0	QPSK	24.10	24.26	24.02	24.50
		37	QPSK	24.09	24.06	24.07	24.50
		74	QPSK	24.10	24.13	23.88	24.50
	36	0	QPSK	22.82	23.15	22.87	23.50
		20	QPSK	22.93	23.00	22.92	23.50
		39	QPSK	22.94	23.05	22.87	23.50
	75	0	QPSK	23.00	23.08	22.83	23.50
15	1	0	16QAM	23.05	23.14	23.09	23.50
		37	16QAM	23.17	23.28	22.98	23.50
		74	16QAM	23.16	23.31	22.96	23.50
	36	0	16QAM	22.01	22.33	22.07	22.50
		20	16QAM	22.08	22.36	22.16	22.50
		39	16QAM	22.02	22.19	22.05	22.50
	75	0	16QAM	21.94	22.18	21.92	22.50
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	1	0	QPSK	24.12	24.25	24.13	24.50
		25	QPSK	24.16	24.09	24.06	24.50
		49	QPSK	24.10	24.16	23.95	24.50
	25	0	QPSK	22.80	23.05	22.87	23.50
		12	QPSK	22.98	23.01	22.97	23.50
		25	QPSK	22.86	23.03	22.83	23.50
	50	0	QPSK	23.01	23.10	22.93	23.50
10	1	0	16QAM	23.10	23.16	23.03	23.50
		25	16QAM	23.08	23.34	22.99	23.50
		49	16QAM	23.12	23.25	22.98	23.50
	25	0	16QAM	22.02	22.30	21.99	22.50
		12	16QAM	22.04	22.25	22.16	22.50
		25	16QAM	21.89	22.18	21.92	22.50
	50	0	16QAM	21.99	22.20	21.89	22.50

Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	1	0	QPSK	24.12	24.34	24.14	24.50
		12	QPSK	24.16	24.03	24.07	24.50
		24	QPSK	24.11	24.15	23.95	24.50
	12	0	QPSK	22.81	23.18	22.86	23.50
		7	QPSK	23.01	23.07	22.98	23.50
		13	QPSK	22.92	23.05	22.85	23.50
	25	0	QPSK	22.94	23.10	22.90	23.50
5	1	0	16QAM	23.14	23.27	23.12	23.50
		12	16QAM	23.16	23.36	22.98	23.50
		24	16QAM	23.15	23.24	23.00	23.50
	12	0	16QAM	22.01	22.36	22.05	22.50
		7	16QAM	22.01	22.24	22.16	22.50
		13	16QAM	21.96	22.30	21.94	22.50
	25	0	16QAM	22.02	22.25	21.83	22.50
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	1	0	QPSK	24.09	24.30	24.13	24.50
		8	QPSK	24.03	24.08	24.07	24.50
		14	QPSK	24.11	24.14	23.93	24.50
	8	0	QPSK	22.83	23.17	22.98	23.50
		4	QPSK	22.95	23.00	22.95	23.50
		7	QPSK	22.92	23.03	22.91	23.50
	15	0	QPSK	23.00	23.11	22.92	23.50
3	1	0	16QAM	23.05	23.23	23.11	23.50
		8	16QAM	23.12	23.29	23.01	23.50
		14	16QAM	23.07	23.37	23.01	23.50
	8	0	16QAM	22.01	22.23	22.05	22.50
		4	16QAM	22.02	22.23	22.22	22.50
		7	16QAM	22.03	22.26	21.91	22.50
	15	0	16QAM	21.99	22.14	21.90	22.50
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	1	0	QPSK	24.19	24.26	24.02	24.50
		3	QPSK	24.20	24.23	24.01	24.50
		5	QPSK	24.19	24.24	24.02	24.50
	3	0	QPSK	23.94	24.17	23.99	24.50
		1	QPSK	23.97	24.16	24.01	24.50
		3	QPSK	23.97	24.11	24.01	24.50
	6	0	QPSK	23.14	23.17	23.00	23.50
1.4	1	0	16QAM	23.22	23.22	23.05	23.50
		3	16QAM	23.04	23.30	23.02	23.50
		5	16QAM	23.23	23.32	23.32	23.50
	3	0	16QAM	22.99	23.35	23.38	23.50
		1	16QAM	23.22	23.45	23.12	23.50
		3	16QAM	23.15	23.30	23.13	23.50
	6	0	16QAM	22.37	22.02	22.41	22.50

8.3.1 LTE Band2 Output Power

LTE B2 ANT6							
BW [MHz]	RB Size	RB Offset	Modulation	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	14.96	15.08	14.99	15.50
		49	QPSK	14.97	14.98	14.96	15.50
		99	QPSK	14.81	14.90	14.85	15.50
	50	0	QPSK	13.96	13.99	13.90	14.50
		24	QPSK	13.78	13.87	13.84	14.50
		50	QPSK	13.90	13.91	13.82	14.50
	100	0	QPSK	13.84	13.93	13.83	14.50
20	1	0	16QAM	14.32	14.44	14.43	14.50
		49	16QAM	14.28	14.39	14.38	14.50
		99	16QAM	14.33	14.36	14.23	14.50
	50	0	16QAM	13.05	13.07	12.96	13.50
		24	16QAM	12.89	13.03	12.94	13.50
		50	16QAM	12.89	13.04	13.02	13.50
	100	0	16QAM	12.98	13.07	13.00	13.50
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	1	0	QPSK	14.88	15.06	14.93	15.50
		37	QPSK	14.94	14.90	14.87	15.50
		74	QPSK	14.66	14.77	14.80	15.50
	36	0	QPSK	13.85	13.94	13.77	14.50
		20	QPSK	13.63	13.85	13.78	14.50
		39	QPSK	13.79	13.86	13.68	14.50
	75	0	QPSK	13.82	13.89	13.72	14.50
15	1	0	16QAM	14.23	14.32	14.40	14.50
		37	16QAM	14.24	14.24	14.30	14.50
		74	16QAM	14.26	14.29	14.18	14.50
	36	0	16QAM	12.94	13.06	12.95	13.50
		20	16QAM	12.74	12.95	12.93	13.50
		39	16QAM	12.86	12.90	12.87	13.50
	75	0	16QAM	12.94	12.94	12.89	13.50
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	1	0	QPSK	14.94	15.05	14.96	15.50
		25	QPSK	14.83	14.95	14.93	15.50
		49	QPSK	14.77	14.82	14.80	15.50
	25	0	QPSK	13.81	13.84	13.82	14.50
		12	QPSK	13.72	13.73	13.79	14.50
		25	QPSK	13.80	13.81	13.69	14.50
	50	0	QPSK	13.78	13.84	13.69	14.50
10	1	0	16QAM	14.26	14.39	14.42	14.50
		25	16QAM	14.23	14.32	14.24	14.50
		49	16QAM	14.29	14.33	14.12	14.50
	25	0	16QAM	12.93	13.05	12.86	13.50
		12	16QAM	12.77	12.88	12.85	13.50
		25	16QAM	12.82	13.00	12.92	13.50
	50	0	16QAM	12.92	13.04	12.91	13.50

Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	1	0	QPSK	14.94	15.02	14.84	15.50
		12	QPSK	14.85	14.96	14.85	15.50
		24	QPSK	14.79	14.77	14.84	15.50
	12	0	QPSK	13.83	13.86	13.83	14.50
		7	QPSK	13.77	13.85	13.73	14.50
		13	QPSK	13.78	13.82	13.78	14.50
	25	0	QPSK	13.69	13.84	13.81	14.50
5	1	0	16QAM	14.19	14.37	14.39	14.50
		12	16QAM	14.13	14.30	14.30	14.50
		24	16QAM	14.29	14.29	14.18	14.50
	12	0	16QAM	12.91	13.01	12.92	13.50
		7	16QAM	12.80	13.01	12.85	13.50
		13	16QAM	12.84	12.97	12.89	13.50
	25	0	16QAM	12.94	12.97	12.94	13.50
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	1	0	QPSK	14.95	15.05	14.92	15.50
		8	QPSK	14.85	14.93	14.92	15.50
		14	QPSK	14.79	14.81	14.71	15.50
	8	0	QPSK	13.84	13.94	13.75	14.50
		4	QPSK	13.69	13.75	13.81	14.50
		7	QPSK	13.83	13.84	13.75	14.50
	15	0	QPSK	13.80	13.90	13.80	14.50
3	1	0	16QAM	14.26	14.31	14.38	14.50
		8	16QAM	14.24	14.36	14.23	14.50
		14	16QAM	14.31	14.21	14.17	14.50
	8	0	16QAM	12.91	13.01	12.93	13.50
		4	16QAM	12.84	12.96	12.92	13.50
		7	16QAM	12.82	12.99	12.93	13.50
	15	0	16QAM	12.92	13.00	12.92	13.50
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	1	0	QPSK	14.91	14.98	14.82	15.50
		3	QPSK	14.89	14.95	14.80	15.50
		5	QPSK	14.93	14.91	14.83	15.50
	3	0	QPSK	14.74	14.88	14.75	15.50
		1	QPSK	14.72	14.86	14.77	15.50
		3	QPSK	14.75	14.87	14.77	15.50
	6	0	QPSK	13.77	13.88	13.78	14.50
1.4	1	0	16QAM	13.88	14.27	13.84	14.50
		3	16QAM	13.83	14.21	13.76	14.50
		5	16QAM	13.92	14.28	13.86	14.50
	3	0	16QAM	13.79	14.04	13.92	14.50
		1	16QAM	13.77	14.00	13.91	14.50
		3	16QAM	13.83	14.00	13.92	14.50
	6	0	16QAM	12.98	12.86	13.03	13.50

8.3.1 LTE Band2 Output Power

LTE B2 Full Power ANT3 ENDC							
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	1	0	QPSK	19.74	19.98	19.68	21.00
		49	QPSK	19.72	19.95	19.59	21.00
		99	QPSK	19.71	19.85	19.62	21.00
	50	0	QPSK	18.82	18.86	18.71	20.00
		24	QPSK	18.79	18.79	18.66	20.00
		50	QPSK	18.81	18.80	18.66	20.00
	100	0	QPSK	18.81	18.77	18.65	20.00
20	1	0	16QAM	18.74	18.79	18.64	20.00
		49	16QAM	18.79	18.80	18.69	20.00
		99	16QAM	18.76	18.77	18.70	20.00
	50	0	16QAM	17.73	17.78	17.65	19.00
		24	16QAM	17.74	17.84	17.68	19.00
		50	16QAM	17.80	17.85	17.64	19.00
	100	0	16QAM	17.81	17.81	17.66	19.00
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	1	0	QPSK	19.69	19.90	19.63	21.00
		37	QPSK	19.66	19.94	19.58	21.00
		74	QPSK	19.68	19.82	19.53	21.00
	36	0	QPSK	18.73	18.84	18.70	20.00
		20	QPSK	18.72	18.70	18.65	20.00
		39	QPSK	18.78	18.79	18.58	20.00
	75	0	QPSK	18.79	18.69	18.62	20.00
15	1	0	16QAM	18.71	18.75	18.55	20.00
		37	16QAM	18.75	18.79	18.62	20.00
		74	16QAM	18.69	18.74	18.65	20.00
	36	0	16QAM	17.68	17.69	17.56	19.00
		20	16QAM	17.68	17.82	17.67	19.00
		39	16QAM	17.79	17.80	17.60	19.00
	75	0	16QAM	17.72	17.77	17.65	19.00
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	1	0	QPSK	19.72	19.93	19.61	21.00
		25	QPSK	19.63	19.94	19.55	21.00
		49	QPSK	19.70	19.78	19.54	21.00
	25	0	QPSK	18.78	18.78	18.66	20.00
		12	QPSK	18.77	18.72	18.58	20.00
		25	QPSK	18.74	18.72	18.60	20.00
	50	0	QPSK	18.76	18.70	18.58	20.00
10	1	0	16QAM	18.70	18.76	18.60	20.00
		25	16QAM	18.72	18.78	18.66	20.00
		49	16QAM	18.67	18.72	18.69	20.00
	25	0	16QAM	17.70	17.76	17.56	19.00
		12	16QAM	17.70	17.76	17.66	19.00
		25	16QAM	17.77	17.76	17.57	19.00
	50	0	16QAM	17.77	17.73	17.61	19.00

Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	1	0	QPSK	19.71	19.90	19.62	21.00
		12	QPSK	19.64	19.89	19.51	21.00
		24	QPSK	19.70	19.81	19.61	21.00
	12	0	QPSK	18.76	18.80	18.64	20.00
		7	QPSK	18.72	18.71	18.64	20.00
		13	QPSK	18.73	18.77	18.63	20.00
	25	0	QPSK	18.73	18.69	18.64	20.00
5	1	0	16QAM	18.72	18.78	18.60	20.00
		12	16QAM	18.75	18.76	18.60	20.00
		24	16QAM	18.67	18.70	18.62	20.00
	12	0	16QAM	17.64	17.70	17.60	19.00
		7	16QAM	17.73	17.79	17.62	19.00
		13	16QAM	17.75	17.80	17.61	19.00
	25	0	16QAM	17.75	17.79	17.57	19.00
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	1	0	QPSK	19.71	19.93	19.66	21.00
		8	QPSK	19.65	19.92	19.56	21.00
		14	QPSK	19.62	19.77	19.55	21.00
	8	0	QPSK	18.81	18.78	18.70	20.00
		4	QPSK	18.71	18.73	18.64	20.00
		7	QPSK	18.76	18.71	18.59	20.00
	15	0	QPSK	18.73	18.72	18.61	20.00
3	1	0	16QAM	18.70	18.77	18.63	20.00
		8	16QAM	18.75	18.78	18.67	20.00
		14	16QAM	18.74	18.74	18.61	20.00
	8	0	16QAM	17.64	17.69	17.58	19.00
		4	16QAM	17.71	17.80	17.61	19.00
		7	16QAM	17.79	17.81	17.63	19.00
	15	0	16QAM	17.80	17.74	17.57	19.00
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	1	0	QPSK	19.82	19.92	19.73	21.00
		3	QPSK	19.86	19.88	19.74	21.00
		5	QPSK	19.90	19.90	19.76	21.00
	3	0	QPSK	19.72	19.80	19.70	21.00
		1	QPSK	19.67	19.79	19.72	21.00
		3	QPSK	19.72	19.79	19.74	21.00
	6	0	QPSK	18.69	18.81	18.77	20.00
1.4	1	0	16QAM	18.85	19.24	18.79	20.00
		3	16QAM	18.75	19.13	18.75	20.00
		5	16QAM	18.83	19.26	18.81	20.00
	3	0	16QAM	18.78	18.95	18.84	20.00
		1	16QAM	18.75	18.94	18.85	20.00
		3	16QAM	18.75	18.98	18.83	20.00
	6	0	16QAM	17.97	17.81	17.99	19.00

8.3.2 LTE Band4 Output Power

LTE B4 ANT5							
BW [MHz]	RB Size	RB Offset	Modulation	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	1	0	QPSK	17.04	17.21	16.92	17.50
		49	QPSK	16.88	17.09	16.95	17.50
		99	QPSK	16.95	17.04	16.93	17.50
	50	0	QPSK	15.97	16.14	15.93	16.50
		24	QPSK	15.90	16.03	15.94	16.50
		50	QPSK	15.91	15.93	15.98	16.50
	100	0	QPSK	15.95	15.95	15.96	16.50
20	1	0	16QAM	16.40	16.40	16.35	16.50
		49	16QAM	16.44	16.39	16.34	16.50
		99	16QAM	16.49	16.46	16.36	16.50
	50	0	16QAM	14.99	14.98	14.91	15.50
		24	16QAM	14.93	14.95	14.92	15.50
		50	16QAM	14.93	14.97	14.95	15.50
	100	0	16QAM	14.97	14.95	14.97	15.50
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	1	0	QPSK	16.94	17.15	16.86	17.50
		37	QPSK	16.74	16.96	16.88	17.50
		74	QPSK	16.89	16.95	16.87	17.50
	36	0	QPSK	15.89	16.04	15.90	16.50
		20	QPSK	15.75	15.93	15.84	16.50
		39	QPSK	15.84	15.89	15.84	16.50
	75	0	QPSK	15.90	15.86	15.82	16.50
15	1	0	16QAM	16.47	16.39	16.33	16.50
		37	16QAM	16.37	16.31	16.23	16.50
		74	16QAM	16.48	16.40	16.26	16.50
	36	0	16QAM	14.91	14.85	14.88	15.50
		20	16QAM	14.86	14.84	14.86	15.50
		39	16QAM	14.78	14.89	14.94	15.50
	75	0	16QAM	14.90	14.91	14.84	15.50
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	1	0	QPSK	16.89	17.19	16.81	17.50
		25	QPSK	16.77	16.98	16.88	17.50
		49	QPSK	16.84	16.95	16.82	17.50
	25	0	QPSK	15.96	16.05	15.87	16.50
		12	QPSK	15.87	16.02	15.88	16.50
		25	QPSK	15.77	15.92	15.90	16.50
	50	0	QPSK	15.92	15.83	15.84	16.50
10	1	0	16QAM	16.45	16.30	16.32	16.50
		25	16QAM	16.30	16.36	16.32	16.50
		49	16QAM	16.43	16.34	16.21	16.50
	25	0	16QAM	14.94	14.89	14.78	15.50
		12	16QAM	14.89	14.83	14.81	15.50
		25	16QAM	14.86	14.87	14.93	15.50
	50	0	16QAM	14.93	14.85	14.94	15.50

Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	1	0	QPSK	16.94	17.16	16.86	17.50
		12	QPSK	16.83	16.95	16.91	17.50
		24	QPSK	16.86	16.98	16.81	17.50
	12	0	QPSK	15.91	16.05	15.86	16.50
		7	QPSK	15.79	15.93	15.92	16.50
		13	QPSK	15.85	15.82	15.95	16.50
	25	0	QPSK	15.84	15.87	15.85	16.50
5	1	0	16QAM	16.43	16.36	16.34	16.50
		12	16QAM	16.33	16.31	16.26	16.50
		24	16QAM	16.46	16.45	16.24	16.50
	12	0	16QAM	14.97	14.96	14.88	15.50
		7	16QAM	14.79	14.93	14.82	15.50
		13	16QAM	14.81	14.90	14.91	15.50
	25	0	16QAM	14.93	14.88	14.89	15.50
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	1	0	QPSK	16.98	17.16	16.88	17.50
		8	QPSK	16.76	17.05	16.85	17.50
		14	QPSK	16.88	16.94	16.79	17.50
	8	0	QPSK	15.89	16.03	15.92	16.50
		4	QPSK	15.75	15.90	15.93	16.50
		7	QPSK	15.90	15.88	15.96	16.50
	15	0	QPSK	15.92	15.88	15.87	16.50
3	1	0	16QAM	16.46	16.28	16.32	16.50
		8	16QAM	16.41	16.33	16.31	16.50
		14	16QAM	16.45	16.43	16.25	16.50
	8	0	16QAM	14.96	14.85	14.88	15.50
		4	16QAM	14.92	14.84	14.78	15.50
		7	16QAM	14.85	14.85	14.84	15.50
	15	0	16QAM	14.83	14.89	14.92	15.50
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	1	0	QPSK	17.12	17.14	16.90	17.50
		3	QPSK	17.08	16.95	16.90	17.50
		5	QPSK	17.10	16.99	16.94	17.50
	3	0	QPSK	16.93	16.96	16.86	17.50
		1	QPSK	16.91	16.84	16.83	17.50
		3	QPSK	16.92	16.87	16.87	17.50
	6	0	QPSK	15.96	15.86	15.86	16.50
1.4	1	0	16QAM	16.14	16.31	15.91	16.50
		3	16QAM	16.08	16.18	15.83	16.50
		5	16QAM	16.15	16.29	15.96	16.50
	3	0	16QAM	15.97	15.99	16.01	16.50
		1	16QAM	15.96	15.97	16.01	16.50
		3	16QAM	15.98	16.00	16.01	16.50
	6	0	16QAM	15.10	14.76	15.04	15.50

8.3.2 LTE Band4 Output Power

LTE B4 ANT6							
BW [MHz]	RB Size	RB Offset	Modulation	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	1	0	QPSK	16.25	16.34	16.24	16.50
		49	QPSK	16.12	16.20	16.14	16.50
		99	QPSK	16.10	16.24	16.09	16.50
	50	0	QPSK	15.12	15.22	15.13	15.50
		24	QPSK	15.04	15.14	15.13	15.50
		50	QPSK	15.01	15.05	14.99	15.50
	100	0	QPSK	15.13	15.14	15.11	15.50
20	1	0	16QAM	15.29	15.43	15.31	15.50
		49	16QAM	15.23	15.32	15.21	15.50
		99	16QAM	15.39	15.48	15.39	15.50
	50	0	16QAM	14.21	14.22	14.20	14.50
		24	16QAM	14.14	14.16	14.15	14.50
		50	16QAM	14.07	14.08	14.04	14.50
	100	0	16QAM	14.03	14.15	14.08	14.50
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	1	0	QPSK	16.12	16.21	16.14	16.50
		37	QPSK	15.99	16.10	16.07	16.50
		74	QPSK	16.06	16.09	16.01	16.50
	36	0	QPSK	14.97	15.10	15.03	15.50
		20	QPSK	14.89	15.12	14.99	15.50
		39	QPSK	14.99	14.96	14.91	15.50
	75	0	QPSK	15.10	15.13	14.96	15.50
15	1	0	16QAM	15.22	15.30	15.47	15.50
		37	16QAM	15.21	15.17	15.42	15.50
		74	16QAM	15.29	15.33	15.35	15.50
	36	0	16QAM	14.15	14.21	14.09	14.50
		20	16QAM	14.02	14.05	14.12	14.50
		39	16QAM	13.99	13.95	13.92	14.50
	75	0	16QAM	13.91	14.02	13.96	14.50
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	1	0	QPSK	16.22	16.32	16.17	16.50
		25	QPSK	16.09	16.10	16.04	16.50
		49	QPSK	16.05	16.20	16.02	16.50
	25	0	QPSK	15.05	15.16	15.01	15.50
		12	QPSK	14.95	15.10	15.05	15.50
		25	QPSK	14.99	14.90	14.93	15.50
	50	0	QPSK	15.05	15.01	15.06	15.50
10	1	0	16QAM	15.25	15.31	15.47	15.50
		25	16QAM	15.22	15.28	15.41	15.50
		49	16QAM	15.27	15.41	15.27	15.50
	25	0	16QAM	14.15	14.09	14.11	14.50
		12	16QAM	14.00	14.03	14.07	14.50
		25	16QAM	14.01	13.99	13.97	14.50
	50	0	16QAM	13.96	14.07	13.94	14.50

Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	1	0	QPSK	16.19	16.32	16.17	16.50
		12	QPSK	16.06	16.12	16.09	16.50
		24	QPSK	15.98	16.23	16.05	16.50
	12	0	QPSK	15.00	15.19	15.00	15.50
		7	QPSK	14.95	14.99	15.07	15.50
		13	QPSK	14.91	14.97	14.95	15.50
	25	0	QPSK	15.12	15.04	14.99	15.50
5	1	0	16QAM	15.47	15.29	15.26	15.50
		12	16QAM	15.44	15.50	15.42	15.50
		24	16QAM	15.30	15.38	15.33	15.50
	12	0	16QAM	14.18	14.16	14.05	14.50
		7	16QAM	14.03	14.07	14.01	14.50
		13	16QAM	13.93	14.03	14.02	14.50
	25	0	16QAM	13.95	14.06	14.01	14.50
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	1	0	QPSK	16.12	16.29	16.15	16.50
		8	QPSK	16.03	16.15	16.06	16.50
		14	QPSK	16.06	16.19	15.97	16.50
	8	0	QPSK	15.11	15.15	15.08	15.50
		4	QPSK	14.90	15.11	15.11	15.50
		7	QPSK	14.93	14.92	14.95	15.50
	15	0	QPSK	15.02	15.03	15.02	15.50
3	1	0	16QAM	15.46	15.38	15.22	15.50
		8	16QAM	15.44	15.27	15.14	15.50
		14	16QAM	15.33	15.44	15.38	15.50
	8	0	16QAM	14.09	14.14	14.13	14.50
		4	16QAM	14.08	14.14	14.02	14.50
		7	16QAM	14.04	14.04	13.94	14.50
	15	0	16QAM	13.90	14.10	13.95	14.50
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	1	0	QPSK	16.17	16.22	15.93	16.50
		3	QPSK	16.11	16.19	15.93	16.50
		5	QPSK	16.17	16.20	15.95	16.50
	3	0	QPSK	16.02	16.14	15.86	16.50
		1	QPSK	16.03	16.06	15.88	16.50
		3	QPSK	16.05	16.08	15.91	16.50
	6	0	QPSK	15.09	15.10	14.89	15.50
1.4	1	0	16QAM	15.22	15.22	14.94	15.50
		3	16QAM	15.13	15.14	14.85	15.50
		5	16QAM	15.24	15.22	14.97	15.50
	3	0	16QAM	15.08	15.22	15.04	15.50
		1	16QAM	15.06	15.22	15.06	15.50
		3	16QAM	15.10	15.20	15.04	15.50
	6	0	16QAM	14.21	13.98	14.06	14.50

8.3.2 LTE Band4 Output Power

LTE B4 Full Power ANT3 ENDC							
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	21.00
Frequency (MHz)				1720	1732.5	1745	
20	1	0	QPSK	20.03	20.10	20.08	21.00
		49	QPSK	19.89	19.92	19.93	21.00
		99	QPSK	19.82	19.98	19.84	21.00
	50	0	QPSK	19.06	19.11	19.01	20.00
		24	QPSK	18.80	18.86	18.90	20.00
		50	QPSK	18.80	18.81	18.71	20.00
	100	0	QPSK	18.87	18.92	18.86	20.00
20	1	0	16QAM	19.05	19.17	19.06	20.00
		49	16QAM	18.97	19.05	18.99	20.00
		99	16QAM	19.16	19.25	19.10	20.00
	50	0	16QAM	17.97	18.01	17.93	19.00
		24	16QAM	17.93	17.87	17.88	19.00
		50	16QAM	17.86	17.85	17.83	19.00
	100	0	16QAM	17.78	17.88	17.87	19.00
Channel				20025	20175	20325	21.00
Frequency (MHz)				1717.5	1732.5	1747.5	
15	1	0	QPSK	19.96	20.08	20.04	21.00
		37	QPSK	19.80	19.88	19.88	21.00
		74	QPSK	19.78	19.92	19.78	21.00
	36	0	QPSK	19.02	19.10	18.97	20.00
		20	QPSK	18.71	18.83	18.89	20.00
		39	QPSK	18.75	18.77	18.68	20.00
	75	0	QPSK	18.82	18.89	18.82	20.00
15	1	0	16QAM	19.00	19.16	19.04	20.00
		37	16QAM	18.94	18.98	18.92	20.00
		74	16QAM	19.10	19.24	19.05	20.00
	36	0	16QAM	17.92	17.93	17.90	19.00
		20	16QAM	17.85	17.82	17.87	19.00
		39	16QAM	17.83	17.78	17.82	19.00
	75	0	16QAM	17.69	17.83	17.79	19.00
Channel				20000	20175	20350	21.00
Frequency (MHz)				1715	1732.5	1750	
10	1	0	QPSK	19.98	20.05	20.00	21.00
		25	QPSK	19.87	19.83	19.84	21.00
		49	QPSK	19.74	19.90	19.77	21.00
	25	0	QPSK	19.05	19.07	19.00	20.00
		12	QPSK	18.74	18.81	18.86	20.00
		25	QPSK	18.71	18.76	18.69	20.00
	50	0	QPSK	18.82	18.86	18.80	20.00
10	1	0	16QAM	19.02	19.16	19.03	20.00
		25	16QAM	18.88	18.99	18.93	20.00
		49	16QAM	19.07	19.21	19.09	20.00
	25	0	16QAM	17.90	17.92	17.86	19.00
		12	16QAM	17.91	17.85	17.85	19.00
		25	16QAM	17.83	17.76	17.80	19.00
	50	0	16QAM	17.72	17.82	17.81	19.00

Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	1	0	QPSK	19.98	20.07	20.07	21.00
		12	QPSK	19.83	19.89	19.88	21.00
		24	QPSK	19.76	19.89	19.83	21.00
	12	0	QPSK	19.00	19.08	18.92	20.00
		7	QPSK	18.71	18.77	18.85	20.00
		13	QPSK	18.71	18.75	18.66	20.00
	25	0	QPSK	18.86	18.86	18.78	20.00
5	1	0	16QAM	18.96	19.12	19.04	20.00
		12	16QAM	18.90	18.97	18.94	20.00
		24	16QAM	19.13	19.17	19.05	20.00
	12	0	16QAM	17.88	18.00	17.90	19.00
		7	16QAM	17.85	17.82	17.81	19.00
		13	16QAM	17.84	17.79	17.81	19.00
	25	0	16QAM	17.69	17.83	17.83	19.00
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	1	0	QPSK	19.97	20.03	20.07	21.00
		8	QPSK	19.80	19.85	19.89	21.00
		14	QPSK	19.81	19.94	19.79	21.00
	8	0	QPSK	18.97	19.05	18.98	20.00
		4	QPSK	18.75	18.77	18.89	20.00
		7	QPSK	18.74	18.74	18.67	20.00
	15	0	QPSK	18.86	18.88	18.79	20.00
3	1	0	16QAM	19.00	19.13	19.02	20.00
		8	16QAM	18.90	19.00	18.90	20.00
		14	16QAM	19.14	19.16	19.02	20.00
	8	0	16QAM	17.96	17.96	17.90	19.00
		4	16QAM	17.87	17.82	17.86	19.00
		7	16QAM	17.82	17.83	17.80	19.00
	15	0	16QAM	17.76	17.81	17.85	19.00
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	1	0	QPSK	19.96	20.01	19.72	21.00
		3	QPSK	19.97	20.02	19.73	21.00
		5	QPSK	20.00	20.03	19.81	21.00
	3	0	QPSK	19.86	19.94	19.70	21.00
		1	QPSK	19.88	19.87	19.73	21.00
		3	QPSK	19.84	19.88	19.78	21.00
	6	0	QPSK	18.95	18.92	18.72	20.00
1.4	1	0	16QAM	19.09	19.06	18.77	20.00
		3	16QAM	19.00	18.93	18.64	20.00
		5	16QAM	19.11	19.09	18.83	20.00
	3	0	16QAM	18.90	19.07	18.90	20.00
		1	16QAM	18.93	19.08	18.89	20.00
		3	16QAM	18.92	19.05	18.90	20.00
	6	0	16QAM	18.07	17.81	17.88	19.00

8.3.3 LTE Band5 Output Power

LTE B5 Full Power ANT3							
BW [MHz]	RB Size	RB Offset	Modulation	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	25.16	25.24	25.11	25.50
		25	QPSK	25.15	25.21	25.07	25.50
		49	QPSK	25.04	25.11	25.03	25.50
	25	0	QPSK	24.09	24.17	24.09	24.50
		12	QPSK	24.06	24.04	24.05	24.50
		25	QPSK	24.03	24.08	24.07	24.50
	50	0	QPSK	24.07	24.15	24.01	24.50
10	1	0	16QAM	24.21	24.36	24.26	24.50
		25	16QAM	24.30	24.38	24.37	24.50
		49	16QAM	24.32	24.41	24.33	24.50
	25	0	16QAM	23.01	23.15	23.03	23.50
		12	16QAM	23.21	23.23	23.10	23.50
		25	16QAM	23.21	23.24	23.10	23.50
	50	0	16QAM	23.02	23.16	23.15	23.50
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	1	0	QPSK	25.04	25.20	25.08	25.50
		12	QPSK	25.02	25.13	24.94	25.50
		24	QPSK	24.94	24.96	24.90	25.50
	12	0	QPSK	24.00	24.08	24.06	24.50
		7	QPSK	23.95	23.91	23.91	24.50
		13	QPSK	23.97	24.00	24.04	24.50
	25	0	QPSK	24.06	24.05	23.90	24.50
5	1	0	16QAM	24.17	24.35	24.17	24.50
		12	16QAM	24.19	24.28	24.27	24.50
		24	16QAM	24.29	24.40	24.26	24.50
	12	0	16QAM	22.88	23.01	22.91	23.50
		7	16QAM	23.13	23.21	22.97	23.50
		13	16QAM	23.15	23.21	23.09	23.50
	25	0	16QAM	22.99	23.01	23.06	23.50
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	1	0	QPSK	25.03	25.13	24.99	25.50
		8	QPSK	25.06	25.10	25.01	25.50
		14	QPSK	25.02	25.10	25.01	25.50
	8	0	QPSK	24.01	24.03	23.98	24.50
		4	QPSK	24.00	24.01	23.93	24.50
		7	QPSK	24.02	23.98	23.98	24.50
	15	0	QPSK	23.93	24.08	23.91	24.50
3	1	0	16QAM	24.10	24.32	24.25	24.50
		8	16QAM	24.29	24.25	24.33	24.50
		14	16QAM	24.21	24.33	24.31	24.50
	8	0	16QAM	22.91	23.00	22.94	23.50
		4	16QAM	23.10	23.20	23.09	23.50
		7	16QAM	23.11	23.12	22.99	23.50
	15	0	16QAM	22.92	23.01	23.13	23.50
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	1	0	QPSK	25.20	25.30	25.02	25.50
		3	QPSK	25.29	25.14	24.99	25.50
		5	QPSK	25.26	25.09	24.99	25.50
	3	0	QPSK	25.06	25.09	24.99	25.50
		1	QPSK	25.03	25.02	24.91	25.50
		3	QPSK	25.02	25.00	24.97	25.50
	6	0	QPSK	24.20	24.04	23.98	24.50
1.4	1	0	16QAM	24.18	24.38	24.24	24.50
		3	16QAM	24.21	24.37	24.20	24.50
		5	16QAM	24.40	24.44	24.09	24.50
	3	0	16QAM	24.17	24.30	24.12	24.50
		1	16QAM	24.19	24.14	24.12	24.50
		3	16QAM	24.23	24.16	24.21	24.50
	6	0	16QAM	23.41	23.20	23.39	23.50

8.3.3 LTE Band5 Output Power

LTE B5 ANT4							
BW [MHz]	RB Size	RB Offset	Modulation	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	18.94	19.09	18.97	19.50
		25	QPSK	18.96	18.97	18.85	19.50
		49	QPSK	18.91	18.94	18.93	19.50
	25	0	QPSK	17.95	17.97	17.91	18.50
		12	QPSK	17.75	17.86	17.72	18.50
		25	QPSK	17.79	17.83	17.68	18.50
	50	0	QPSK	17.68	17.82	17.70	18.50
10	1	0	16QAM	18.08	18.18	18.14	18.50
		25	16QAM	18.11	18.17	18.03	18.50
		49	16QAM	18.16	18.25	18.13	18.50
	25	0	16QAM	16.77	16.90	16.80	17.50
		12	16QAM	16.83	16.90	16.89	17.50
		25	16QAM	16.82	16.96	16.86	17.50
	50	0	16QAM	16.88	16.90	16.84	17.50
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	1	0	QPSK	18.93	19.07	18.94	19.50
		12	QPSK	18.81	18.89	18.71	19.50
		24	QPSK	18.78	18.90	18.78	19.50
	12	0	QPSK	17.94	17.91	17.85	18.50
		7	QPSK	17.61	17.84	17.66	18.50
		13	QPSK	17.71	17.78	17.61	18.50
	25	0	QPSK	17.63	17.75	17.63	18.50
5	1	0	16QAM	18.02	18.16	17.99	18.50
		12	16QAM	18.08	18.09	17.95	18.50
		24	16QAM	18.13	18.12	18.07	18.50
	12	0	16QAM	16.64	16.82	16.71	17.50
		7	16QAM	16.82	16.88	16.81	17.50
		13	16QAM	16.69	16.92	16.73	17.50
	25	0	16QAM	16.87	16.84	16.82	17.50
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	1	0	QPSK	18.86	18.98	18.91	19.50
		8	QPSK	18.95	18.90	18.73	19.50
		14	QPSK	18.84	18.84	18.79	19.50
	8	0	QPSK	17.93	17.91	17.85	18.50
		4	QPSK	17.74	17.84	17.71	18.50
		7	QPSK	17.71	17.79	17.67	18.50
	15	0	QPSK	17.57	17.78	17.55	18.50
3	1	0	16QAM	18.00	18.09	18.05	18.50
		8	16QAM	18.04	18.11	17.99	18.50
		14	16QAM	18.15	18.20	18.04	18.50
	8	0	16QAM	16.67	16.77	16.76	17.50
		4	16QAM	16.68	16.88	16.78	17.50
		7	16QAM	16.75	16.94	16.77	17.50
	15	0	16QAM	16.81	16.77	16.69	17.50
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	1	0	QPSK	18.76	18.96	18.81	19.50
		3	QPSK	18.72	18.91	18.80	19.50
		5	QPSK	18.74	18.93	18.80	19.50
	3	0	QPSK	18.62	18.89	18.75	19.50
		1	QPSK	18.60	18.76	18.75	19.50
		3	QPSK	18.60	18.77	18.77	19.50
	6	0	QPSK	17.64	17.73	17.76	18.50
1.4	1	0	16QAM	17.80	18.16	17.86	18.50
		3	16QAM	17.72	18.14	17.78	18.50
		5	16QAM	17.79	18.21	17.84	18.50
	3	0	16QAM	17.64	17.91	17.91	18.50
		1	16QAM	17.63	17.93	17.90	18.50
		3	16QAM	17.65	17.91	17.93	18.50
	6	0	16QAM	16.88	16.74	17.00	17.50

8.3.4 LTE Band7 Output Power

LTE B7 ANT5							
BW [MHz]	RB Size	RB Offset	Modulation	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	10.25	10.29	10.13	11.50
		49	QPSK	10.08	10.25	10.14	11.50
		99	QPSK	10.02	10.20	10.14	11.50
	50	0	QPSK	9.12	9.13	9.01	10.50
		24	QPSK	8.95	9.08	8.93	10.50
		50	QPSK	9.01	9.03	8.88	10.50
	100	0	QPSK	9.21	9.26	9.23	10.50
20	1	0	16QAM	9.42	9.50	9.39	10.50
		49	16QAM	9.53	9.64	9.55	10.50
		99	16QAM	9.75	9.76	9.67	10.50
	50	0	16QAM	8.15	8.17	8.10	9.50
		24	16QAM	8.06	8.21	8.08	9.50
		50	16QAM	8.14	8.23	8.19	9.50
	100	0	16QAM	8.13	8.27	8.22	9.50
Channel				20825	21100	21375	Tune-up power(dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	1	0	QPSK	10.15	10.24	10.06	11.50
		37	QPSK	10.01	10.20	10.02	11.50
		74	QPSK	10.00	10.19	10.08	11.50
	36	0	QPSK	9.04	9.20	9.13	10.50
		20	QPSK	9.09	9.14	9.11	10.50
		39	QPSK	9.10	9.15	9.16	10.50
	75	0	QPSK	9.09	9.22	9.10	10.50
15	1	0	16QAM	9.40	9.44	9.26	10.50
		37	16QAM	9.42	9.49	9.40	10.50
		74	16QAM	9.74	9.69	9.60	10.50
	36	0	16QAM	8.04	8.11	7.96	9.50
		20	16QAM	8.02	8.19	7.93	9.50
		39	16QAM	8.07	8.17	8.08	9.50
	75	0	16QAM	8.11	8.15	8.15	9.50
Channel				20800	21100	21400	Tune-up power(dBm)
Frequency (MHz)				2505	2535	2565	
10	1	0	QPSK	10.19	10.25	10.12	11.50
		25	QPSK	10.09	10.21	10.20	11.50
		49	QPSK	10.09	10.21	10.21	11.50
	25	0	QPSK	9.09	9.19	9.04	10.50
		12	QPSK	8.93	9.06	9.02	10.50
		25	QPSK	9.08	9.09	8.97	10.50
	50	0	QPSK	9.09	9.12	9.22	10.50
10	1	0	16QAM	9.27	9.47	9.35	10.50
		25	16QAM	9.49	9.51	9.51	10.50
		49	16QAM	9.72	9.74	9.53	10.50
	25	0	16QAM	8.00	8.02	8.05	9.50
		12	16QAM	8.00	8.06	8.01	9.50
		25	16QAM	8.09	8.10	8.06	9.50
	50	0	16QAM	8.11	8.20	8.17	9.50
Channel				20775	21100	21425	Tune-up power(dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	1	0	QPSK	10.17	10.24	10.10	11.50
		12	QPSK	10.13	10.19	10.23	11.50
		24	QPSK	10.01	10.21	10.17	11.50
	12	0	QPSK	9.08	9.19	9.01	10.50
		7	QPSK	8.96	9.12	9.00	10.50
		13	QPSK	9.10	9.10	8.88	10.50
	25	0	QPSK	9.23	9.29	9.19	10.50
5	1	0	16QAM	9.35	9.38	9.32	10.50
		12	16QAM	9.49	9.56	9.47	10.50
		24	16QAM	9.70	9.69	9.63	10.50
	12	0	16QAM	8.13	8.06	8.01	9.50
		7	16QAM	7.91	8.13	7.94	9.50
		13	16QAM	8.04	8.19	8.17	9.50
	25	0	16QAM	8.11	8.14	8.09	9.50

8.3.4 LTE Band7 Output Power

LTE B7 ANT6							
BW [MHz]	RB Size	RB Offset	Modulation	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	10.21	10.26	10.10	11.50
		49	QPSK	10.02	10.20	10.15	11.50
		99	QPSK	9.98	10.12	10.08	11.50
	50	0	QPSK	9.17	9.27	9.14	10.50
		24	QPSK	9.03	9.17	9.06	10.50
		50	QPSK	9.12	9.11	9.00	10.50
	100	0	QPSK	9.31	9.42	9.31	10.50
20	1	0	16QAM	9.46	9.55	9.47	10.50
		49	16QAM	9.57	9.67	9.71	10.50
		99	16QAM	9.83	9.84	9.82	10.50
	50	0	16QAM	8.27	8.25	8.25	9.50
		24	16QAM	7.99	8.25	8.00	9.50
		50	16QAM	8.07	8.25	8.23	9.50
	100	0	16QAM	8.07	8.21	8.25	9.50
Channel				20825	21100	21375	Tune-up power(dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	1	0	QPSK	10.20	10.22	10.08	11.50
		37	QPSK	9.89	10.19	10.00	11.50
		74	QPSK	9.85	10.08	9.95	11.50
	36	0	QPSK	9.13	9.16	9.06	10.50
		20	QPSK	8.92	9.12	9.00	10.50
		39	QPSK	9.06	9.06	8.95	10.50
	75	0	QPSK	9.25	9.28	9.28	10.50
15	1	0	16QAM	9.39	9.44	9.40	10.50
		37	16QAM	9.56	9.54	9.64	10.50
		74	16QAM	9.77	9.75	9.77	10.50
	36	0	16QAM	8.14	8.15	8.13	9.50
		20	16QAM	7.86	8.22	7.96	9.50
		39	16QAM	7.97	8.14	8.15	9.50
	75	0	16QAM	8.03	8.14	8.14	9.50
Channel				20800	21100	21400	Tune-up power(dBm)
Frequency (MHz)				2505	2535	2565	
10	1	0	QPSK	10.13	10.25	10.04	11.50
		25	QPSK	9.97	10.16	10.11	11.50
		49	QPSK	9.93	9.98	9.96	11.50
	25	0	QPSK	9.06	9.15	9.03	10.50
		12	QPSK	8.88	9.14	8.96	10.50
		25	QPSK	9.03	9.09	8.88	10.50
	50	0	QPSK	9.17	9.31	9.19	10.50
10	1	0	16QAM	9.41	9.40	9.43	10.50
		25	16QAM	9.46	9.53	9.58	10.50
		49	16QAM	9.80	9.81	9.67	10.50
	25	0	16QAM	8.26	8.11	8.11	9.50
		12	16QAM	7.93	8.24	7.95	9.50
		25	16QAM	8.01	8.10	8.08	9.50
	50	0	16QAM	7.94	8.07	8.18	9.50
Channel				20775	21100	21425	Tune-up power(dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	1	0	QPSK	10.12	10.25	10.09	11.50
		12	QPSK	9.91	10.13	10.12	11.50
		24	QPSK	9.94	10.09	9.98	11.50
	12	0	QPSK	9.16	9.20	9.08	10.50
		7	QPSK	8.97	9.06	9.00	10.50
		13	QPSK	9.02	8.98	8.96	10.50
	25	0	QPSK	9.29	9.37	9.16	10.50
5	1	0	16QAM	9.38	9.54	9.33	10.50
		12	16QAM	9.50	9.66	9.57	10.50
		24	16QAM	9.75	9.83	9.79	10.50
	12	0	16QAM	8.21	8.23	8.17	9.50
		7	16QAM	7.95	8.13	7.97	9.50
		13	16QAM	8.01	8.24	8.22	9.50
	25	0	16QAM	7.96	8.07	8.18	9.50

8.3.4 LTE Band7 Output Power

LTE B7 Full Power ANT3 ENDC							
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	1	0	QPSK	18.63	18.78	18.71	19.50
		49	QPSK	18.34	18.56	18.48	19.50
		99	QPSK	18.33	18.44	18.46	19.50
	50	0	QPSK	17.62	17.66	17.51	18.50
		24	QPSK	17.42	17.49	17.44	18.50
		50	QPSK	17.45	17.45	17.33	18.50
	100	0	QPSK	17.67	17.75	17.64	18.50
20	1	0	16QAM	17.81	17.86	17.84	18.50
		49	16QAM	17.88	18.06	18.06	18.50
		99	16QAM	18.18	18.20	18.17	18.50
	50	0	16QAM	16.63	16.64	16.61	17.50
		24	16QAM	16.36	16.64	16.38	17.50
		50	16QAM	16.44	16.56	16.60	17.50
	100	0	16QAM	16.43	16.59	16.63	17.50
Channel				20825	21100	21375	Tune-up power(dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	1	0	QPSK	18.52	18.63	18.41	19.50
		37	QPSK	18.40	18.53	18.47	19.50
		74	QPSK	18.33	18.46	18.40	19.50
	36	0	QPSK	17.53	17.66	17.48	18.50
		20	QPSK	17.38	17.54	17.37	18.50
		39	QPSK	17.48	17.46	17.35	18.50
	75	0	QPSK	17.65	17.75	17.65	18.50
15	1	0	16QAM	17.83	17.87	17.80	18.50
		37	16QAM	17.95	18.02	18.09	18.50
		74	16QAM	18.17	18.16	18.20	18.50
	36	0	16QAM	16.59	16.58	16.58	17.50
		20	16QAM	16.35	16.60	16.35	17.50
		39	16QAM	16.38	16.64	16.56	17.50
	75	0	16QAM	16.39	16.57	16.63	17.50
Channel				20800	21100	21400	Tune-up power(dBm)
Frequency (MHz)				2505	2535	2565	
10	1	0	QPSK	18.54	18.60	18.43	19.50
		25	QPSK	18.36	18.56	18.48	19.50
		49	QPSK	18.32	18.46	18.42	19.50
	25	0	QPSK	17.56	17.64	17.47	18.50
		12	QPSK	17.40	17.52	17.43	18.50
		25	QPSK	17.43	17.47	17.38	18.50
	50	0	QPSK	17.70	17.81	17.64	18.50
10	1	0	16QAM	17.84	17.92	17.85	18.50
		25	16QAM	17.94	17.99	18.05	18.50
		49	16QAM	18.19	18.18	18.18	18.50
	25	0	16QAM	16.64	16.58	16.61	17.50
		12	16QAM	16.30	16.64	16.37	17.50
		25	16QAM	16.42	16.57	16.54	17.50
	50	0	16QAM	16.45	16.53	16.64	17.50
Channel				20775	21100	21425	Tune-up power(dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	1	0	QPSK	18.53	18.62	18.43	19.50
		12	QPSK	18.34	18.52	18.46	19.50
		24	QPSK	18.37	18.46	18.41	19.50
	12	0	QPSK	17.51	17.58	17.50	18.50
		7	QPSK	17.41	17.53	17.37	18.50
		13	QPSK	17.46	17.45	17.31	18.50
	25	0	QPSK	17.66	17.80	17.62	18.50
5	1	0	16QAM	17.77	17.90	17.82	18.50
		12	16QAM	17.88	18.02	18.08	18.50
		24	16QAM	18.17	18.23	18.21	18.50
	12	0	16QAM	16.61	16.61	16.60	17.50
		7	16QAM	16.31	16.58	16.34	17.50
		13	16QAM	16.43	16.61	16.55	17.50
	25	0	16QAM	16.42	16.56	16.64	17.50

8.3.5 LTE Band12 Output Power

LTE B12 Full Power ANT3							
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	1	0	QPSK	24.18	24.22	24.11	
		25	QPSK	24.12	24.04	23.96	24.50
		49	QPSK	24.20	24.11	24.07	24.50
	25	0	QPSK	22.99	23.07	23.01	23.50
		12	QPSK	23.02	22.94	22.98	23.50
		25	QPSK	22.93	23.05	23.00	23.50
	50	0	QPSK	23.10	23.05	23.03	23.50
10	1	0	16QAM	23.07	23.50	23.19	23.50
		25	16QAM	22.98	23.40	22.98	23.50
		49	16QAM	23.04	23.49	23.15	23.50
	25	0	16QAM	22.15	22.17	22.17	22.50
		12	16QAM	22.16	22.12	22.14	22.50
		25	16QAM	22.16	22.12	22.13	22.50
	50	0	16QAM	22.11	22.11	22.10	22.50
Channel				23035	23095	23155	Tune-up power(dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	1	0	QPSK	24.04	24.19	24.05	24.50
		12	QPSK	24.01	23.96	23.89	24.50
		24	QPSK	24.08	24.04	24.06	24.50
	12	0	QPSK	23.01	23.03	22.89	23.50
		7	QPSK	23.06	22.93	22.93	23.50
		13	QPSK	23.01	23.05	23.00	23.50
	25	0	QPSK	22.96	22.96	23.01	23.50
5	1	0	16QAM	23.04	23.37	23.10	23.50
		12	16QAM	22.95	23.30	22.84	23.50
		24	16QAM	22.91	23.36	23.13	23.50
	12	0	16QAM	22.00	22.03	22.13	22.50
		7	16QAM	22.04	21.99	22.02	22.50
		13	16QAM	22.14	22.00	22.11	22.50
	25	0	16QAM	22.07	21.99	21.97	22.50
Channel				23025	23095	23165	Tune-up power(dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	1	0	QPSK	24.14	24.10	24.04	24.50
		8	QPSK	23.99	23.92	23.86	24.50
		14	QPSK	24.08	24.09	24.06	24.50
	8	0	QPSK	23.05	22.96	22.95	23.50
		4	QPSK	23.04	22.97	22.90	23.50
		7	QPSK	23.00	23.05	22.94	23.50
	15	0	QPSK	23.02	23.00	22.96	23.50
3	1	0	16QAM	23.06	23.49	23.11	23.50
		8	16QAM	22.93	23.38	22.96	23.50
		14	16QAM	22.93	23.42	23.07	23.50
	8	0	16QAM	22.14	22.07	22.14	22.50
		4	16QAM	22.04	22.06	22.05	22.50
		7	16QAM	22.06	22.02	22.00	22.50
	15	0	16QAM	22.03	22.02	21.95	22.50
Channel				23017	23095	23173	Tune-up power(dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	1	0	QPSK	24.16	24.04	23.97	24.50
		3	QPSK	24.13	24.01	23.94	24.50
		5	QPSK	24.17	24.02	23.93	24.50
	3	0	QPSK	23.95	23.95	23.94	24.50
		1	QPSK	23.94	23.97	23.94	24.50
		3	QPSK	23.94	23.96	23.93	24.50
	6	0	QPSK	23.00	22.96	22.92	24.50
1.4	1	0	16QAM	23.12	23.49	23.01	23.50
		3	16QAM	23.05	23.29	22.86	23.50
		5	16QAM	23.11	23.37	23.04	23.50
	3	0	16QAM	22.99	23.13	23.14	24.50
		1	16QAM	22.98	23.13	23.10	24.50
		3	16QAM	23.00	23.11	23.05	24.50
	6	0	16QAM	22.20	21.95	22.17	22.50

8.3.5 LTE Band12 Output Power

LTE B12 Full Power ANT4								
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	1	0	QPSK	23.98	24.03	23.94	24.50	
		25	QPSK	23.96	23.87	23.78	24.50	
		49	QPSK	23.99	23.94	23.84	24.50	
	25	0	QPSK	22.91	22.94	22.85	23.50	
		12	QPSK	22.91	22.87	22.84	23.50	
		25	QPSK	22.92	22.83	22.89	23.50	
	50	0	QPSK	22.97	22.94	22.89	23.50	
		0	16QAM	22.84	23.30	22.96	23.50	
10	1	25	16QAM	22.89	23.27	22.89	23.50	
		49	16QAM	22.88	23.28	22.89	23.50	
		0	16QAM	21.97	21.97	21.99	22.50	
	25	12	16QAM	21.97	21.93	21.97	22.50	
		25	16QAM	21.98	21.90	21.97	22.50	
		0	16QAM	21.95	21.92	21.90	22.50	
	Channel				23035	23095	23155	Tune-up power(dBm)
	Frequency (MHz)				701.5	707.5	713.5	
5	1	0	QPSK	23.93	23.97	23.86	24.50	
		12	QPSK	23.92	23.83	23.66	24.50	
		24	QPSK	23.86	23.92	23.80	24.50	
	12	0	QPSK	22.87	22.83	22.84	23.50	
		7	QPSK	22.91	22.81	22.83	23.50	
		13	QPSK	22.90	22.75	22.78	23.50	
	25	0	QPSK	22.84	22.82	22.86	23.50	
	5	1	0	16QAM	22.71	23.29	22.82	23.50
12			16QAM	22.87	23.23	22.88	23.50	
24			16QAM	22.83	23.26	22.76	23.50	
12		0	16QAM	21.92	21.87	21.91	22.50	
		7	16QAM	21.83	21.79	21.89	22.50	
		13	16QAM	21.88	21.80	21.84	22.50	
25		0	16QAM	21.92	21.83	21.82	22.50	
Channel				23025	23095	23165	Tune-up power(dBm)	
Frequency (MHz)				700.5	707.5	714.5		
3	1	0	QPSK	23.85	23.90	23.83	24.50	
		8	QPSK	23.93	23.83	23.67	24.50	
		14	QPSK	23.84	23.79	23.69	24.50	
	8	0	QPSK	22.81	22.79	22.81	23.50	
		4	QPSK	22.87	22.78	22.75	23.50	
		7	QPSK	22.87	22.84	22.77	23.50	
	15	0	QPSK	22.92	22.92	22.77	23.50	
	3	1	0	16QAM	22.72	23.17	22.94	23.50
8			16QAM	22.77	23.21	22.82	23.50	
14			16QAM	22.87	23.23	22.82	23.50	
8		0	16QAM	21.83	21.87	21.88	22.50	
		4	16QAM	21.83	21.83	21.90	22.50	
		7	16QAM	21.91	21.89	21.92	22.50	
15		0	16QAM	21.86	21.85	21.88	22.50	
Channel				23017	23095	23173	Tune-up power(dBm)	
Frequency (MHz)				699.7	707.5	715.3		
1.4	1	0	QPSK	23.93	23.88	23.73	24.50	
		3	QPSK	23.91	23.84	23.70	24.50	
		5	QPSK	23.99	23.84	23.71	24.50	
	3	0	QPSK	23.70	23.78	23.70	24.50	
		1	QPSK	23.71	23.74	23.67	24.50	
		3	QPSK	23.72	23.76	23.68	24.50	
	6	0	QPSK	22.86	22.86	22.76	23.50	
	1.4	1	0	16QAM	22.94	23.29	22.84	23.50
3			16QAM	22.89	23.22	22.73	23.50	
5			16QAM	23.00	23.28	22.84	23.50	
3		0	16QAM	22.83	23.03	22.96	23.50	
		1	16QAM	22.83	23.01	22.94	23.50	
		3	16QAM	22.86	22.99	22.90	23.50	
6		0	16QAM	21.97	21.75	21.91	22.50	

8.3.6 LTE Band13 Output Power

LTE B13 Full Power ANT3							
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			Tune-up limit (dBm)
Frequency (MHz)				782			
10	1	0	QPSK		24.24		25.00
		25	QPSK		24.19		25.00
		49	QPSK		24.22		25.00
	25	0	QPSK		23.07		24.00
		12	QPSK		23.02		24.00
		25	QPSK		23.00		24.00
	50	0	QPSK		23.09		24.00
10	1	0	16QAM		23.10		24.00
		25	16QAM		22.96		24.00
		49	16QAM		23.12		24.00
	25	0	16QAM		22.07		23.00
		12	16QAM		22.07		23.00
		25	16QAM		22.08		23.00
	50	0	16QAM		22.06		23.00
Channel				23205	23230	23255	Tune-up power(dBm)
Frequency (MHz)				779.5	782	784.5	
5	1	0	QPSK	24.22	24.11	24.19	25.00
		12	QPSK	24.20	24.09	24.19	25.00
		24	QPSK	24.20	24.17	24.19	25.00
	12	0	QPSK	23.08	23.09	23.09	24.00
		7	QPSK	23.04	23.07	23.06	24.00
		13	QPSK	23.07	23.08	23.06	24.00
	25	0	QPSK	23.12	23.11	23.12	24.00
5	1	0	16QAM	23.34	23.62	23.20	24.00
		12	16QAM	23.29	23.64	23.20	24.00
		24	16QAM	23.31	23.65	23.17	24.00
	12	0	16QAM	22.15	22.22	22.15	23.00
		7	16QAM	22.11	22.20	22.10	23.00
		13	16QAM	22.15	22.21	22.11	23.00
	25	0	16QAM	22.12	22.18	22.04	23.00

8.3.6 LTE Band13 Output Power

LTE B13 Full Power ANT4								
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	
Channel				23230			Tune-up limit (dBm)	
Frequency (MHz)				782				
10	1	0	QPSK		24.09		24.50	
		25	QPSK		23.89		24.50	
		49	QPSK		24.05		24.50	
	25	0	QPSK		22.85		23.50	
		12	QPSK		22.81		23.50	
		25	QPSK		22.84		23.50	
	50	0	QPSK		22.90		23.50	
10	1	0	16QAM	22.81		23.50		
		25	16QAM	22.77		23.50		
		49	16QAM	22.92		23.50		
	25	0	16QAM	21.95		22.50		
		12	16QAM	21.99		22.50		
		25	16QAM	21.98		22.50		
	50	0	16QAM	21.95		22.50		
	Channel				23205	23230	23255	Tune-up power(dBm)
	Frequency (MHz)				779.5	782	784.5	
5	1	0	QPSK	23.99	23.91	24.00	24.50	
		12	QPSK	24.07	23.94	24.05	24.50	
		24	QPSK	24.03	23.94	24.03	24.50	
	12	0	QPSK	22.85	22.89	22.91	23.50	
		7	QPSK	22.87	22.88	22.88	23.50	
		13	QPSK	22.87	22.87	22.89	23.50	
	25	0	QPSK	22.91	22.92	22.94	23.50	
5	1	0	16QAM	23.05	23.46	23.01	23.50	
		12	16QAM	23.10	23.48	23.02	23.50	
		24	16QAM	23.14	23.45	23.01	23.50	
	12	0	16QAM	22.02	22.13	22.08	22.50	
		7	16QAM	22.04	22.12	22.03	22.50	
		13	16QAM	22.06	22.13	22.05	22.50	
	25	0	16QAM	22.02	22.06	21.96	22.50	

8.3.7 LTE Band17 Output Power

LTE B17 Full Power ANT3							
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	Tune-up limit (dBm)
Frequency (MHz)				709	710	711	
10	1	0	QPSK	24.15	24.26	24.07	25.00
		25	QPSK	24.08	24.07	24.01	25.00
		49	QPSK	24.16	24.14	24.07	25.00
	25	0	QPSK	23.01	23.03	23.02	24.00
		12	QPSK	22.97	22.99	23.03	24.00
		25	QPSK	23.02	23.00	23.00	24.00
	50	0	QPSK	23.06	23.07	23.05	24.00
10	1	0	16QAM	23.04	23.46	23.13	24.00
		25	16QAM	22.97	23.42	23.04	24.00
		49	16QAM	23.01	23.48	23.15	24.00
	25	0	16QAM	22.10	22.09	22.17	23.00
		12	16QAM	22.12	22.10	22.15	23.00
		25	16QAM	22.08	22.07	22.13	23.00
	50	0	16QAM	22.06	22.10	22.09	23.00
Channel				23755	23790	23825	Tune-up power(dBm)
Frequency (MHz)				706.5	710	713.5	
5	1	0	QPSK	24.24	24.11	24.19	25.00
		12	QPSK	24.17	24.11	24.18	25.00
		24	QPSK	24.20	24.09	24.14	25.00
	12	0	QPSK	23.10	23.09	23.07	24.00
		7	QPSK	23.07	23.06	23.05	24.00
		13	QPSK	23.12	23.05	23.06	24.00
	25	0	QPSK	23.15	23.10	23.10	24.00
5	1	0	16QAM	23.29	23.67	23.16	24.00
		12	16QAM	23.25	23.60	23.16	24.00
		24	16QAM	23.33	23.65	23.13	24.00
	12	0	16QAM	22.20	22.27	22.15	23.00
		7	16QAM	22.18	22.24	22.15	23.00
		13	16QAM	22.22	22.22	22.18	23.00
	25	0	16QAM	22.18	22.19	22.08	23.00

8.3.7 LTE Band17 Output Power

LTE B17 Full Power ANT4							
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	Tune-up limit (dBm)
Frequency (MHz)				709	710	711	
10	1	0	QPSK	23.94	24.09	23.94	24.50
		25	QPSK	23.85	23.94	23.90	24.50
		49	QPSK	24.00	23.98	23.94	24.50
	25	0	QPSK	22.91	22.93	22.84	23.50
		12	QPSK	22.91	22.92	22.87	23.50
		25	QPSK	22.89	22.92	22.90	23.50
	50	0	QPSK	22.94	22.90	22.91	23.50
10	1	0	16QAM	22.84	23.29	22.97	23.50
		25	16QAM	22.78	23.29	22.92	23.50
		49	16QAM	22.85	23.29	22.95	23.50
	25	0	16QAM	21.94	21.96	22.00	22.50
		12	16QAM	21.95	21.96	22.01	22.50
		25	16QAM	21.93	21.93	21.95	22.50
	50	0	16QAM	21.92	21.92	21.91	22.50
Channel				23755	23790	23825	Tune-up power(dBm)
Frequency (MHz)				706.5	710	713.5	
5	1	0	QPSK	24.04	23.91	24.05	24.50
		12	QPSK	24.02	23.96	24.02	24.50
		24	QPSK	24.05	23.94	24.00	24.50
	12	0	QPSK	22.99	22.96	22.96	23.50
		7	QPSK	22.95	22.95	22.92	23.50
		13	QPSK	22.93	22.94	22.91	23.50
	25	0	QPSK	23.02	23.01	22.97	23.50
5	1	0	16QAM	23.14	23.46	23.05	23.50
		12	16QAM	23.12	23.42	23.02	23.50
		24	16QAM	23.16	23.46	23.02	23.50
	12	0	16QAM	22.08	22.11	21.99	22.50
		7	16QAM	22.03	22.10	21.97	22.50
		13	16QAM	22.03	22.08	21.97	22.50
	25	0	16QAM	22.02	22.06	21.91	22.50

8.3.8 LTE Band66 Output Power

LTE B66 ANT5							
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	1	0	QPSK	15.00	15.10	15.03	15.50
		49	QPSK	14.88	15.03	14.92	15.50
		99	QPSK	14.86	14.96	14.86	15.50
	50	0	QPSK	13.98	14.05	14.02	14.50
		24	QPSK	13.91	13.92	13.85	14.50
		50	QPSK	13.91	13.93	13.92	14.50
	100	0	QPSK	13.93	13.96	13.92	14.50
20	1	0	16QAM	14.30	14.38	14.33	14.50
		49	16QAM	14.31	14.40	14.26	14.50
		99	16QAM	14.40	14.46	14.45	14.50
	50	0	16QAM	12.99	13.02	12.91	13.50
		24	16QAM	13.00	13.05	12.98	13.50
		50	16QAM	12.93	13.08	12.98	13.50
	100	0	16QAM	12.92	13.05	13.04	13.50
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	1	0	QPSK	14.85	15.09	14.97	15.50
		37	QPSK	14.73	14.95	14.91	15.50
		74	QPSK	14.83	14.82	14.73	15.50
	36	0	QPSK	13.84	13.92	13.92	14.50
		20	QPSK	13.89	13.83	13.77	14.50
		39	QPSK	13.84	13.90	13.86	14.50
	75	0	QPSK	13.80	13.89	13.91	14.50
15	1	0	16QAM	14.27	14.23	14.29	14.50
		37	16QAM	14.25	14.39	14.21	14.50
		74	16QAM	14.38	14.40	14.39	14.50
	36	0	16QAM	12.98	12.99	12.80	13.50
		20	16QAM	12.91	12.94	12.93	13.50
		39	16QAM	12.86	12.98	12.96	13.50
	75	0	16QAM	12.88	13.03	12.98	13.50
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	1	0	QPSK	14.97	15.06	15.00	15.50
		25	QPSK	14.75	14.95	14.91	15.50
		49	QPSK	14.74	14.86	14.77	15.50
	25	0	QPSK	13.91	14.02	13.96	14.50
		12	QPSK	13.87	13.82	13.80	14.50
		25	QPSK	13.89	13.88	13.87	14.50
	50	0	QPSK	13.90	13.88	13.80	14.50
10	1	0	16QAM	14.23	14.25	14.25	14.50
		25	16QAM	14.20	14.32	14.17	14.50
		49	16QAM	14.27	14.44	14.44	14.50
	25	0	16QAM	12.84	12.91	12.79	13.50
		12	16QAM	12.88	12.96	12.97	13.50
		25	16QAM	12.84	13.00	12.88	13.50
	50	0	16QAM	12.91	13.01	12.94	13.50

Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	1	0	QPSK	14.97	15.09	14.94	15.50
		12	QPSK	14.86	14.96	14.81	15.50
		24	QPSK	14.83	14.89	14.81	15.50
	12	0	QPSK	13.85	13.94	13.93	14.50
		7	QPSK	13.80	13.83	13.81	14.50
		13	QPSK	13.82	13.80	13.87	14.50
	25	0	QPSK	13.90	13.87	13.81	14.50
5	1	0	16QAM	14.25	14.37	14.20	14.50
		12	16QAM	14.26	14.36	14.18	14.50
		24	16QAM	14.31	14.44	14.43	14.50
	12	0	16QAM	12.95	12.87	12.87	13.50
		7	16QAM	12.99	13.01	12.87	13.50
		13	16QAM	12.84	13.04	12.91	13.50
	25	0	16QAM	12.88	12.94	13.01	13.50
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	1	0	QPSK	14.89	14.99	14.98	15.50
		8	QPSK	14.82	14.97	14.87	15.50
		14	QPSK	14.71	14.87	14.78	15.50
	8	0	QPSK	13.86	13.90	13.92	14.50
		4	QPSK	13.88	13.84	13.76	14.50
		7	QPSK	13.77	13.88	13.80	14.50
	15	0	QPSK	13.81	13.81	13.90	14.50
3	1	0	16QAM	14.19	14.29	14.19	14.50
		8	16QAM	14.18	14.26	14.21	14.50
		14	16QAM	14.36	14.44	14.37	14.50
	8	0	16QAM	12.94	12.98	12.86	13.50
		4	16QAM	12.98	13.02	12.90	13.50
		7	16QAM	12.79	12.93	12.93	13.50
	15	0	16QAM	12.89	12.97	13.02	13.50
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	1	0	QPSK	14.91	15.04	14.82	15.50
		3	QPSK	14.89	14.92	14.75	15.50
		5	QPSK	14.93	14.96	14.82	15.50
	3	0	QPSK	14.86	14.91	14.72	15.50
		1	QPSK	14.86	14.79	14.69	15.50
		3	QPSK	14.89	14.80	14.74	15.50
	6	0	QPSK	13.87	13.83	13.72	14.50
1.4	1	0	16QAM	13.94	13.99	14.12	14.50
		3	16QAM	13.85	13.93	14.04	14.50
		5	16QAM	13.97	13.99	14.13	14.50
	3	0	16QAM	14.03	13.85	13.86	14.50
		1	16QAM	14.03	13.82	13.87	14.50
		3	16QAM	14.04	13.85	13.87	14.50
	6	0	16QAM	13.09	13.05	12.72	13.50

8.3.8 LTE Band66 Output Power

LTE B66 ANT6							
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	1	0	QPSK	15.13	15.28	15.20	15.50
		49	QPSK	15.17	15.21	15.13	15.50
		99	QPSK	15.15	15.19	15.14	15.50
	50	0	QPSK	14.18	14.21	14.12	14.50
		24	QPSK	14.09	14.13	14.07	14.50
		50	QPSK	14.14	14.17	14.15	14.50
	100	0	QPSK	13.91	13.93	13.83	14.50
20	1	0	16QAM	14.34	14.46	14.40	14.50
		49	16QAM	14.26	14.37	14.35	14.50
		99	16QAM	14.40	14.45	14.44	14.50
	50	0	16QAM	13.01	13.11	13.10	13.50
		24	16QAM	12.98	13.09	13.08	13.50
		50	16QAM	12.93	13.05	12.94	13.50
	100	0	16QAM	12.93	13.04	13.00	13.50
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	1	0	QPSK	15.01	15.14	15.05	15.50
		37	QPSK	15.06	15.10	15.10	15.50
		74	QPSK	15.01	15.13	15.13	15.50
	36	0	QPSK	14.11	14.15	14.09	14.50
		20	QPSK	13.99	14.08	14.03	14.50
		39	QPSK	14.04	14.03	14.07	14.50
	75	0	QPSK	13.85	13.88	13.71	14.50
15	1	0	16QAM	14.26	14.40	14.35	14.50
		37	16QAM	14.24	14.24	14.30	14.50
		74	16QAM	14.36	14.33	14.32	14.50
	36	0	16QAM	12.89	13.04	13.00	13.50
		20	16QAM	12.91	13.06	13.05	13.50
		39	16QAM	12.91	12.98	12.87	13.50
	75	0	16QAM	12.89	13.03	12.98	13.50
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	1	0	QPSK	15.00	15.23	15.07	15.50
		25	QPSK	15.09	15.12	14.98	15.50
		49	QPSK	15.07	15.17	15.00	15.50
	25	0	QPSK	14.08	14.20	14.02	14.50
		12	QPSK	13.97	14.11	14.03	14.50
		25	QPSK	14.08	14.07	14.08	14.50
	50	0	QPSK	13.76	13.78	13.75	14.50
10	1	0	16QAM	14.25	14.31	14.34	14.50
		25	16QAM	14.17	14.23	14.33	14.50
		49	16QAM	14.31	14.34	14.40	14.50
	25	0	16QAM	12.92	13.01	13.08	13.50
		12	16QAM	12.84	12.98	12.99	13.50
		25	16QAM	12.86	12.98	12.83	13.50
	50	0	16QAM	12.87	13.02	12.86	13.50

Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	1	0	QPSK	15.09	15.18	15.15	15.50
		12	QPSK	15.15	15.17	15.07	15.50
		24	QPSK	15.08	15.05	15.03	15.50
	12	0	QPSK	14.14	14.12	14.10	14.50
		7	QPSK	14.03	14.06	14.05	14.50
		13	QPSK	14.13	14.06	14.14	14.50
	25	0	QPSK	13.76	13.90	13.71	14.50
5	1	0	16QAM	14.28	14.33	14.30	14.50
		12	16QAM	14.24	14.28	14.33	14.50
		24	16QAM	14.35	14.44	14.38	14.50
	12	0	16QAM	12.92	13.02	13.06	13.50
		7	16QAM	12.89	12.94	12.98	13.50
		13	16QAM	12.83	12.97	12.79	13.50
	25	0	16QAM	12.90	13.00	12.92	13.50
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	1	0	QPSK	15.02	15.15	15.10	15.50
		8	QPSK	15.04	15.10	15.09	15.50
		14	QPSK	15.06	15.11	15.11	15.50
	8	0	QPSK	14.17	14.08	14.02	14.50
		4	QPSK	14.06	14.01	13.97	14.50
		7	QPSK	14.09	14.11	14.04	14.50
	15	0	QPSK	13.82	13.85	13.68	14.50
3	1	0	16QAM	14.19	14.36	14.29	14.50
		8	16QAM	14.18	14.25	14.33	14.50
		14	16QAM	14.39	14.44	14.35	14.50
	8	0	16QAM	12.92	13.08	12.95	13.50
		4	16QAM	12.83	12.96	13.07	13.50
		7	16QAM	12.81	13.01	12.80	13.50
	15	0	16QAM	12.79	12.94	12.89	13.50
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	1	0	QPSK	15.10	15.14	14.92	15.50
		3	QPSK	15.08	14.94	14.88	15.50
		5	QPSK	15.10	14.96	14.91	15.50
	3	0	QPSK	14.93	15.00	14.86	15.50
		1	QPSK	14.95	14.84	14.82	15.50
		3	QPSK	14.96	14.83	14.87	15.50
	6	0	QPSK	14.03	13.82	13.86	14.50
1.4	1	0	16QAM	14.13	14.28	13.92	14.50
		3	16QAM	14.07	14.21	13.84	14.50
		5	16QAM	14.14	14.27	13.94	14.50
	3	0	16QAM	14.00	13.98	14.02	14.50
		1	16QAM	13.99	14.00	14.03	14.50
		3	16QAM	14.01	13.99	14.02	14.50
	6	0	16QAM	13.23	12.83	13.09	13.50

8.3.8 LTE Band66 Output Power

LTE B66 Full Power ANT3 ENDC							
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	1	0	QPSK	19.82	19.87	19.80	21.00
		49	QPSK	19.69	19.73	19.66	21.00
		99	QPSK	19.73	19.76	19.72	21.00
	50	0	QPSK	18.88	18.92	18.89	20.00
		24	QPSK	18.66	18.66	18.61	20.00
		50	QPSK	18.68	18.71	18.71	20.00
	100	0	QPSK	18.45	18.52	18.36	20.00
20	1	0	16QAM	18.87	18.97	18.96	20.00
		49	16QAM	18.83	18.95	18.89	20.00
		99	16QAM	18.98	19.04	18.96	20.00
	50	0	16QAM	17.60	17.65	17.69	19.00
		24	16QAM	17.57	17.65	17.62	19.00
		50	16QAM	17.47	17.58	17.47	19.00
	100	0	16QAM	17.45	17.60	17.52	19.00
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	1	0	QPSK	19.68	19.82	19.71	21.00
		37	QPSK	19.75	19.72	19.72	21.00
		74	QPSK	19.71	19.70	19.69	21.00
	36	0	QPSK	18.75	18.79	18.69	20.00
		20	QPSK	18.61	18.71	18.61	20.00
		39	QPSK	18.66	18.69	18.74	20.00
	75	0	QPSK	18.46	18.48	18.35	20.00
15	1	0	16QAM	18.89	19.04	18.91	20.00
		37	16QAM	18.85	18.90	18.88	20.00
		74	16QAM	18.97	19.00	18.95	20.00
	36	0	16QAM	17.53	17.70	17.62	19.00
		20	16QAM	17.57	17.61	17.65	19.00
		39	16QAM	17.44	17.61	17.49	19.00
	75	0	16QAM	17.49	17.58	17.58	19.00
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	1	0	QPSK	19.68	19.83	19.72	21.00
		25	QPSK	19.74	19.75	19.65	21.00
		49	QPSK	19.68	19.76	19.68	21.00
	25	0	QPSK	18.71	18.76	18.67	20.00
		12	QPSK	18.66	18.67	18.64	20.00
		25	QPSK	18.71	18.72	18.71	20.00
	50	0	QPSK	18.42	18.49	18.34	20.00
10	1	0	16QAM	18.89	18.98	18.92	20.00
		25	16QAM	18.81	18.92	18.91	20.00
		49	16QAM	18.95	19.01	19.02	20.00
	25	0	16QAM	17.59	17.62	17.64	19.00
		12	16QAM	17.54	17.63	17.60	19.00
		25	16QAM	17.44	17.62	17.48	19.00
	50	0	16QAM	17.45	17.61	17.57	19.00

Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	1	0	QPSK	19.69	19.83	19.73	21.00
		12	QPSK	19.75	19.73	19.71	21.00
		24	QPSK	19.71	19.72	19.66	21.00
	12	0	QPSK	18.72	18.80	18.67	20.00
		7	QPSK	18.64	18.68	18.58	20.00
		13	QPSK	18.69	18.72	18.72	20.00
	25	0	QPSK	18.45	18.49	18.42	20.00
5	1	0	16QAM	18.86	19.02	18.99	20.00
		12	16QAM	18.81	18.89	18.91	20.00
		24	16QAM	18.94	18.97	18.95	20.00
	12	0	16QAM	17.58	17.70	17.63	19.00
		7	16QAM	17.53	17.63	17.62	19.00
		13	16QAM	17.51	17.62	17.47	19.00
	25	0	16QAM	17.52	17.58	17.59	19.00
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	1	0	QPSK	19.72	19.84	19.77	21.00
		8	QPSK	19.76	19.76	19.65	21.00
		14	QPSK	19.68	19.72	19.67	21.00
	8	0	QPSK	18.72	18.72	18.68	20.00
		4	QPSK	18.68	18.65	18.61	20.00
		7	QPSK	18.68	18.72	18.72	20.00
	15	0	QPSK	18.47	18.44	18.41	20.00
3	1	0	16QAM	18.85	19.00	18.98	20.00
		8	16QAM	18.84	18.90	18.91	20.00
		14	16QAM	18.94	19.00	19.03	20.00
	8	0	16QAM	17.56	17.67	17.62	19.00
		4	16QAM	17.50	17.61	17.60	19.00
		7	16QAM	17.50	17.59	17.47	19.00
	15	0	16QAM	17.49	17.60	17.53	19.00
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	1	0	QPSK	19.63	19.72	19.44	21.00
		3	QPSK	19.59	19.46	19.44	21.00
		5	QPSK	19.66	19.48	19.49	21.00
	3	0	QPSK	19.44	19.53	19.45	21.00
		1	QPSK	19.46	19.40	19.40	21.00
		3	QPSK	19.49	19.36	19.43	21.00
	6	0	QPSK	18.59	18.36	18.40	20.00
1.4	1	0	16QAM	18.67	18.84	18.47	20.00
		3	16QAM	18.66	18.79	18.39	20.00
		5	16QAM	18.73	18.85	18.51	20.00
	3	0	16QAM	18.56	18.54	18.56	20.00
		1	16QAM	18.58	18.58	18.59	20.00
		3	16QAM	18.53	18.52	18.57	20.00
	6	0	16QAM	17.76	17.35	17.60	19.00

8.3.9 LTE Band38 Output Power

LTE B38 ANT5							
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	1	0	QPSK	15.45	15.56	15.53	16.00
		49	QPSK	15.39	15.46	15.39	16.00
		99	QPSK	15.39	15.40	15.29	16.00
	50	0	QPSK	14.36	14.44	14.42	15.00
		24	QPSK	14.27	14.33	14.20	15.00
		50	QPSK	14.20	14.32	14.22	15.00
	100	0	QPSK	14.24	14.36	14.28	15.00
20	1	0	16QAM	14.58	14.63	14.55	15.00
		49	16QAM	14.46	14.59	14.55	15.00
		99	16QAM	14.56	14.58	14.43	15.00
	50	0	16QAM	13.24	13.34	13.25	14.00
		24	16QAM	13.32	13.34	13.33	14.00
		50	16QAM	13.30	13.35	13.27	14.00
	100	0	16QAM	13.32	13.37	13.30	14.00
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	1	0	QPSK	15.42	15.44	15.39	16.00
		37	QPSK	15.30	15.39	15.32	16.00
		74	QPSK	15.26	15.39	15.28	16.00
	36	0	QPSK	14.22	14.42	14.39	15.00
		20	QPSK	14.21	14.31	14.18	15.00
		39	QPSK	14.05	14.29	14.19	15.00
	75	0	QPSK	14.14	14.28	14.15	15.00
15	1	0	16QAM	14.55	14.60	14.47	15.00
		37	16QAM	14.35	14.49	14.43	15.00
		74	16QAM	14.51	14.49	14.36	15.00
	36	0	16QAM	13.17	13.32	13.20	14.00
		20	16QAM	13.27	13.24	13.29	14.00
		39	16QAM	13.15	13.31	13.20	14.00
	75	0	16QAM	13.18	13.35	13.27	14.00
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	1	0	QPSK	15.41	15.49	15.38	16.00
		25	QPSK	15.27	15.35	15.32	16.00
		49	QPSK	15.27	15.37	15.28	16.00
	25	0	QPSK	14.30	14.42	14.32	15.00
		12	QPSK	14.19	14.19	14.07	15.00
		25	QPSK	14.12	14.28	14.11	15.00
	50	0	QPSK	14.23	14.29	14.25	15.00
10	1	0	16QAM	14.44	14.56	14.50	15.00
		25	16QAM	14.31	14.57	14.49	15.00
		49	16QAM	14.47	14.45	14.33	15.00
	25	0	16QAM	13.21	13.19	13.15	14.00
		12	16QAM	13.30	13.30	13.32	14.00
		25	16QAM	13.28	13.28	13.25	14.00
	50	0	16QAM	13.28	13.36	13.29	14.00
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	1	0	QPSK	15.30	15.53	15.40	16.00
		12	QPSK	15.37	15.34	15.25	16.00
		24	QPSK	15.29	15.25	15.14	16.00
	12	0	QPSK	14.21	14.41	14.38	15.00
		7	QPSK	14.21	14.19	14.10	15.00
		13	QPSK	14.13	14.30	14.17	15.00
	25	0	QPSK	14.22	14.31	14.14	15.00
5	1	0	16QAM	14.57	14.52	14.41	15.00
		12	16QAM	14.39	14.54	14.50	15.00
		24	16QAM	14.55	14.53	14.33	15.00
	12	0	16QAM	13.09	13.23	13.19	14.00
		7	16QAM	13.30	13.32	13.26	14.00

		13	16QAM	13.28	13.25	13.16	14.00
	25	0	16QAM	13.18	13.25	13.25	14.00

8.3.9 LTE Band38 Output Power

LTE B38 ANT6							
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	1	0	QPSK	15.36	15.45	15.35	16.00
		49	QPSK	15.29	15.34	15.16	16.00
		99	QPSK	15.26	15.30	15.06	16.00
	50	0	QPSK	14.22	14.32	14.29	15.00
		24	QPSK	14.12	14.21	14.17	15.00
		50	QPSK	14.16	14.31	14.08	15.00
	100	0	QPSK	14.12	14.30	14.26	15.00
20	1	0	16QAM	14.37	14.45	14.42	15.00
		49	16QAM	14.27	14.35	14.35	15.00
		99	16QAM	14.36	14.48	14.28	15.00
	50	0	16QAM	13.17	13.33	13.12	14.00
		24	16QAM	13.30	13.23	13.22	14.00
		50	16QAM	13.26	13.26	13.26	14.00
	100	0	16QAM	13.19	13.24	13.29	14.00
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	1	0	QPSK	15.21	15.37	15.23	16.00
		37	QPSK	15.22	15.33	15.11	16.00
		74	QPSK	15.16	15.26	15.02	16.00
	36	0	QPSK	14.18	14.17	14.24	15.00
		20	QPSK	14.03	14.13	14.07	15.00
		39	QPSK	14.06	14.17	13.97	15.00
	75	0	QPSK	13.99	14.15	14.12	15.00
15	1	0	16QAM	14.35	14.31	14.36	15.00
		37	16QAM	14.16	14.23	14.21	15.00
		74	16QAM	14.29	14.41	14.14	15.00
	36	0	16QAM	13.13	13.30	13.08	14.00
		20	16QAM	13.25	13.20	13.17	14.00
		39	16QAM	13.17	13.20	13.22	14.00
	75	0	16QAM	13.13	13.21	13.18	14.00
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	1	0	QPSK	15.30	15.44	15.31	16.00
		25	QPSK	15.18	15.19	15.02	16.00
		49	QPSK	15.25	15.23	14.97	16.00
	25	0	QPSK	14.12	14.22	14.27	15.00
		12	QPSK	14.00	14.08	14.06	15.00
		25	QPSK	14.13	14.27	14.03	15.00
	50	0	QPSK	14.05	14.22	14.18	15.00
10	1	0	16QAM	14.27	14.31	14.39	15.00
		25	16QAM	14.22	14.22	14.26	15.00
		49	16QAM	14.25	14.43	14.23	15.00
	25	0	16QAM	13.07	13.20	13.08	14.00
		12	16QAM	13.21	13.20	13.18	14.00
		25	16QAM	13.18	13.18	13.21	14.00
	50	0	16QAM	13.09	13.16	13.26	14.00
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	1	0	QPSK	15.31	15.33	15.28	16.00
		12	QPSK	15.25	15.20	15.07	16.00
		24	QPSK	15.15	15.22	14.91	16.00
	12	0	QPSK	14.21	14.26	14.17	15.00
		7	QPSK	13.99	14.06	14.05	15.00
		13	QPSK	14.11	14.18	14.06	15.00
	25	0	QPSK	13.98	14.18	14.19	15.00
5	1	0	16QAM	14.34	14.32	14.28	15.00
		12	16QAM	14.21	14.26	14.34	15.00
		24	16QAM	14.28	14.36	14.14	15.00
	12	0	16QAM	13.16	13.26	13.04	14.00
		7	16QAM	13.23	13.13	13.19	14.00

		13	16QAM	13.23	13.18	13.18	14.00
	25	0	16QAM	13.13	13.13	13.21	14.00

8.3.10LTE Band41 Output Power

LTE B41 ANT5									
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High 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	1	0	QPSK	15.56	15.57	15.62	15.47	15.61	16.00
		49	QPSK	15.47	15.53	15.60	15.50	15.49	16.00
		99	QPSK	15.55	15.45	15.56	15.55	15.50	16.00
	50	0	QPSK	14.42	14.39	14.53	14.45	14.49	15.00
		24	QPSK	14.34	14.36	14.44	14.35	14.37	15.00
		50	QPSK	14.27	14.39	14.40	14.39	14.35	15.00
100	0	QPSK	14.45	14.46	14.51	14.36	14.41	15.00	
20	1	0	16QAM	14.82	14.72	14.84	14.77	14.78	15.00
		49	16QAM	14.71	14.67	14.81	14.66	14.79	15.00
		99	16QAM	14.65	14.66	14.79	14.76	14.70	15.00
	50	0	16QAM	13.52	13.44	13.53	13.47	13.41	14.00
		24	16QAM	13.47	13.49	13.55	13.43	13.46	14.00
		50	16QAM	13.52	13.49	13.53	13.41	13.47	14.00
100	0	16QAM	13.53	13.45	13.54	13.48	13.51	14.00	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	1	0	QPSK	15.48	15.57	15.59	15.51	15.56	16.00
		37	QPSK	15.50	15.45	15.58	15.54	15.55	16.00
		74	QPSK	15.54	15.45	15.55	15.46	15.44	16.00
	36	0	QPSK	14.52	14.49	14.56	14.51	14.42	15.00
		20	QPSK	14.33	14.33	14.33	14.36	14.37	15.00
		39	QPSK	14.27	14.37	14.36	14.39	14.33	15.00
75	0	QPSK	14.39	14.48	14.43	14.46	14.49	15.00	
15	1	0	16QAM	14.74	14.72	14.79	14.78	14.71	15.00
		37	16QAM	14.70	14.78	14.80	14.66	14.68	15.00
		74	16QAM	14.74	14.77	14.64	14.75	14.64	15.00
	36	0	16QAM	13.45	13.46	13.42	13.41	13.46	14.00
		20	16QAM	13.45	13.42	13.54	13.48	13.45	14.00
		39	16QAM	13.50	13.45	13.52	13.39	13.44	14.00
75	0	16QAM	13.53	13.52	13.47	13.50	13.40	14.00	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	1	0	QPSK	15.51	15.56	15.59	15.47	15.56	16.00
		25	QPSK	15.57	15.58	15.53	15.47	15.53	16.00
		49	QPSK	15.55	15.51	15.52	15.42	15.45	16.00
	25	0	QPSK	14.39	14.49	14.56	14.43	14.41	15.00
		12	QPSK	14.31	14.43	14.40	14.41	14.35	15.00
		25	QPSK	14.39	14.30	14.30	14.26	14.25	15.00
50	0	QPSK	14.41	14.40	14.40	14.45	14.42	15.00	
10	1	0	16QAM	14.81	14.72	14.70	14.73	14.83	15.00
		25	16QAM	14.72	14.72	14.71	14.68	14.80	15.00
		49	16QAM	14.68	14.65	14.64	14.77	14.64	15.00
	25	0	16QAM	13.46	13.44	13.39	13.46	13.52	14.00
		12	16QAM	13.43	13.41	13.43	13.52	13.49	14.00
		25	16QAM	13.43	13.47	13.50	13.40	13.48	14.00
50	0	16QAM	13.47	13.46	13.40	13.52	13.41	14.00	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	1	0	QPSK	15.50	15.54	15.56	15.47	15.48	16.00
		12	QPSK	15.50	15.45	15.49	15.46	15.48	16.00
		24	QPSK	15.53	15.46	15.53	15.47	15.54	16.00
	12	0	QPSK	14.38	14.47	14.54	14.46	14.47	15.00
		7	QPSK	14.41	14.33	14.29	14.38	14.29	15.00
		13	QPSK	14.35	14.26	14.38	14.30	14.32	15.00
5	25	0	QPSK	14.50	14.48	14.48	14.50	14.44	15.00
		0	16QAM	14.70	14.72	14.82	14.82	14.73	15.00
		12	16QAM	14.79	14.77	14.76	14.69	14.80	15.00
	1	24	16QAM	14.65	14.73	14.64	14.74	14.74	15.00
		0	16QAM	13.41	13.42	13.38	13.48	13.38	14.00
		7	16QAM	13.44	13.44	13.47	13.49	13.48	14.00
25	13	16QAM	13.41	13.48	13.42	13.47	13.45	14.00	
	0	16QAM	13.43	13.45	13.44	13.50	13.45	14.00	

8.3.10LTE Band41 Output Power

LTE B41 ANT6									
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High 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	1	0	QPSK	14.35	14.38	14.48	14.43	14.39	15.00
		49	QPSK	14.38	14.30	14.45	14.31	14.33	15.00
		99	QPSK	14.30	14.34	14.38	14.35	14.27	15.00
	50	0	QPSK	13.43	13.34	13.45	13.33	13.37	14.00
		24	QPSK	13.39	13.37	13.35	13.43	13.36	14.00
		50	QPSK	13.42	13.41	13.36	13.34	13.35	14.00
100	0	QPSK	13.46	13.44	13.49	13.36	13.48	14.00	
20	1	0	16QAM	13.32	13.24	13.38	13.34	13.36	14.00
		49	16QAM	13.30	13.23	13.38	13.25	13.32	14.00
		99	16QAM	13.38	13.44	13.46	13.45	13.38	14.00
	50	0	16QAM	12.37	12.42	12.45	12.33	12.44	13.00
		24	16QAM	12.40	12.41	12.50	12.44	12.43	13.00
		50	16QAM	12.43	12.46	12.50	12.48	12.43	13.00
100	0	16QAM	12.45	12.35	12.49	12.45	12.40	13.00	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	1	0	QPSK	14.28	14.37	14.41	14.28	14.34	15.00
		37	QPSK	14.26	14.23	14.31	14.18	14.23	15.00
		74	QPSK	14.21	14.23	14.28	14.21	14.25	15.00
	36	0	QPSK	13.37	13.33	13.33	13.32	13.26	14.00
		20	QPSK	13.30	13.27	13.29	13.34	13.27	14.00
		39	QPSK	13.37	13.29	13.24	13.20	13.28	14.00
75	0	QPSK	13.43	13.40	13.39	13.21	13.37	14.00	
15	1	0	16QAM	13.31	13.15	13.29	13.32	13.30	14.00
		37	16QAM	13.21	13.12	13.37	13.14	13.25	14.00
		74	16QAM	13.26	13.31	13.32	13.40	13.30	14.00
	36	0	16QAM	12.24	12.28	12.35	12.25	12.34	13.00
		20	16QAM	12.36	12.29	12.40	12.40	12.41	13.00
		39	16QAM	12.31	12.32	12.38	12.45	12.39	13.00
75	0	16QAM	12.40	12.26	12.36	12.38	12.38	13.00	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	1	0	QPSK	14.27	14.30	14.45	14.32	14.24	15.00
		25	QPSK	14.34	14.16	14.35	14.16	14.18	15.00
		49	QPSK	14.18	14.24	14.28	14.21	14.26	15.00
	25	0	QPSK	13.30	13.33	13.32	13.26	13.34	14.00
		12	QPSK	13.32	13.25	13.33	13.34	13.32	14.00
		25	QPSK	13.37	13.38	13.29	13.28	13.23	14.00
50	0	QPSK	13.40	13.32	13.38	13.31	13.44	14.00	
10	1	0	16QAM	13.21	13.17	13.26	13.20	13.27	14.00
		25	16QAM	13.18	13.16	13.35	13.17	13.19	14.00
		49	16QAM	13.26	13.29	13.43	13.35	13.25	14.00
	25	0	16QAM	12.23	12.29	12.32	12.27	12.42	13.00
		12	16QAM	12.36	12.26	12.40	12.39	12.35	13.00
		25	16QAM	12.30	12.45	12.43	12.39	12.38	13.00
50	0	16QAM	12.30	12.22	12.37	12.41	12.26	13.00	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	1	0	QPSK	14.29	14.24	14.43	14.35	14.25	15.00
		12	QPSK	14.32	14.28	14.33	14.23	14.26	15.00
		24	QPSK	14.21	14.26	14.37	14.25	14.19	15.00
	12	0	QPSK	13.37	13.22	13.43	13.31	13.31	14.00
		7	QPSK	13.34	13.30	13.24	13.42	13.25	14.00
		13	QPSK	13.32	13.38	13.29	13.29	13.30	14.00
5	1	0	QPSK	13.38	13.31	13.47	13.25	13.36	14.00
		0	16QAM	13.24	13.12	13.37	13.22	13.30	14.00
		12	16QAM	13.17	13.21	13.33	13.19	13.19	14.00
	12	24	16QAM	13.23	13.32	13.43	13.36	13.30	14.00
		0	16QAM	12.25	12.39	12.44	12.26	12.35	13.00
		7	16QAM	12.33	12.26	12.41	12.31	12.35	13.00
25	0	16QAM	12.31	12.43	12.37	12.34	12.41	13.00	
	0	16QAM	12.43	12.31	12.39	12.36	12.33	13.00	

8.3.10 LTE Band41 Output Power

LTE B41 Full Power ANT3 ENDC									
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High 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	1	0	QPSK	19.48	19.44	19.54	19.51	19.45	20.50
		49	QPSK	19.36	19.21	19.36	19.27	19.25	20.50
		99	QPSK	19.21	19.31	19.35	19.27	19.25	20.50
	50	0	QPSK	18.47	18.45	18.52	18.49	18.47	19.50
		24	QPSK	18.31	18.28	18.34	18.42	18.27	19.50
		50	QPSK	18.41	18.34	18.33	18.27	18.32	19.50
	100	0	QPSK	18.37	18.39	18.42	18.35	18.46	19.50
20	1	0	16QAM	18.26	18.19	18.35	18.32	18.31	19.50
		49	16QAM	18.21	18.17	18.33	18.22	18.31	19.50
		99	16QAM	18.32	18.37	18.41	18.39	18.36	19.50
	50	0	16QAM	17.35	17.34	17.42	17.32	17.35	18.50
		24	16QAM	17.38	17.32	17.42	17.38	17.41	18.50
		50	16QAM	17.35	17.39	17.41	17.43	17.42	18.50
	100	0	16QAM	17.39	17.31	17.40	17.38	17.35	18.50
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	1	0	QPSK	19.33	19.32	19.44	19.41	19.35	20.50
		37	QPSK	19.34	19.22	19.39	19.25	19.28	20.50
		74	QPSK	19.24	19.30	19.34	19.27	19.24	20.50
	36	0	QPSK	18.40	18.29	18.36	18.31	18.32	19.50
		20	QPSK	18.35	18.28	18.28	18.38	18.31	19.50
		39	QPSK	18.38	18.35	18.33	18.30	18.30	19.50
	75	0	QPSK	18.38	18.42	18.48	18.34	18.41	19.50
15	1	0	16QAM	18.29	18.20	18.32	18.33	18.28	19.50
		37	16QAM	18.21	18.18	18.29	18.16	18.30	19.50
		74	16QAM	18.31	18.37	18.44	18.39	18.32	19.50
	36	0	16QAM	17.31	17.37	17.36	17.24	17.35	18.50
		20	16QAM	17.38	17.36	17.42	17.35	17.41	18.50
		39	16QAM	17.36	17.42	17.41	17.41	17.41	18.50
	75	0	16QAM	17.38	17.31	17.41	17.37	17.38	18.50
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	1	0	QPSK	19.34	19.34	19.40	19.41	19.34	20.50
		25	QPSK	19.29	19.23	19.37	19.30	19.28	20.50
		49	QPSK	19.21	19.31	19.30	19.33	19.20	20.50
	25	0	QPSK	18.39	18.27	18.38	18.30	18.30	19.50
		12	QPSK	18.36	18.34	18.30	18.35	18.30	19.50
		25	QPSK	18.33	18.32	18.35	18.26	18.30	19.50
	50	0	QPSK	18.44	18.36	18.46	18.29	18.41	19.50
10	1	0	16QAM	18.23	18.15	18.30	18.29	18.31	19.50
		25	16QAM	18.23	18.17	18.37	18.19	18.23	19.50
		49	16QAM	18.37	18.37	18.45	18.38	18.29	19.50
	25	0	16QAM	17.36	17.34	17.43	17.25	17.42	18.50
		12	16QAM	17.37	17.35	17.46	17.42	17.40	18.50
		25	16QAM	17.34	17.37	17.46	17.42	17.35	18.50
	50	0	16QAM	17.37	17.32	17.41	17.40	17.36	18.50
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	1	0	QPSK	19.30	19.36	19.46	19.36	19.36	20.50
		12	QPSK	19.35	19.27	19.40	19.22	19.24	20.50
		24	QPSK	19.24	19.29	19.30	19.31	19.21	20.50
	12	0	QPSK	18.38	18.26	18.42	18.24	18.33	19.50
		7	QPSK	18.31	18.36	18.30	18.37	18.31	19.50
		13	QPSK	18.38	18.39	18.31	18.31	18.26	19.50
	25	0	QPSK	18.43	18.36	18.48	18.35	18.47	19.50
5	1	0	16QAM	18.31	18.20	18.36	18.28	18.30	19.50
		12	16QAM	18.23	18.15	18.34	18.23	18.24	19.50
		24	16QAM	18.29	18.42	18.44	18.43	18.31	19.50
	12	0	16QAM	17.33	17.33	17.44	17.28	17.39	18.50
		7	16QAM	17.36	17.36	17.46	17.41	17.39	18.50
		13	16QAM	17.39	17.44	17.47	17.39	17.35	18.50
	25	0	16QAM	17.39	17.28	17.48	17.37	17.38	18.50

8.3.11 LTE Band42 Output Power

LTE B42 ANT0									
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				41690	42140	42590	43040	43490	
Frequency (MHz)				3410	3455	3500	3545	3590	
20	1	0	QPSK	13.68	13.74	13.75	13.60	13.63	14.50
		49	QPSK	13.54	13.55	13.65	13.57	13.62	14.50
		99	QPSK	13.59	13.47	13.62	13.59	13.57	14.50
	50	0	QPSK	12.73	12.73	12.74	12.71	12.73	13.50
		24	QPSK	12.38	12.47	12.52	12.49	12.47	13.50
		50	QPSK	12.49	12.51	12.53	12.44	12.51	13.50
	100	0	QPSK	12.42	12.43	12.55	12.49	12.41	13.50
20	1	0	16QAM	12.82	12.75	12.83	12.75	12.73	13.50
		49	16QAM	12.57	12.69	12.71	12.66	12.61	13.50
		99	16QAM	12.77	12.66	12.80	12.79	12.68	13.50
	50	0	16QAM	11.54	11.56	11.64	11.55	11.55	12.50
		24	16QAM	11.56	11.53	11.59	11.55	11.57	12.50
		50	16QAM	11.53	11.52	11.58	11.44	11.57	12.50
	100	0	16QAM	11.56	11.52	11.60	11.46	11.45	12.50
Channel				41665	42128	42590	43053	43515	Tune-up limit (dBm)
Frequency (MHz)				3407.5	3453.8	3500	3546.3	3592.5	
15	1	0	QPSK	13.53	13.64	13.65	13.59	13.51	14.50
		37	QPSK	13.44	13.48	13.58	13.53	13.48	14.50
		74	QPSK	13.51	13.39	13.60	13.50	13.47	14.50
	36	0	QPSK	12.65	12.70	12.71	12.62	12.59	13.50
		20	QPSK	12.26	12.38	12.44	12.43	12.45	13.50
		39	QPSK	12.40	12.47	12.40	12.42	12.42	13.50
	75	0	QPSK	12.38	12.30	12.50	12.40	12.28	13.50
15	1	0	16QAM	12.70	12.64	12.73	12.65	12.70	13.50
		37	16QAM	12.50	12.66	12.66	12.55	12.54	13.50
		74	16QAM	12.68	12.53	12.68	12.78	12.63	13.50
	36	0	16QAM	11.52	11.50	11.60	11.45	11.44	12.50
		20	16QAM	11.41	11.44	11.57	11.41	11.46	12.50
		39	16QAM	11.52	11.45	11.51	11.40	11.49	12.50
	75	0	16QAM	11.49	11.49	11.52	11.42	11.30	12.50
Channel				41640	42115	42590	43065	43540	Tune-up limit (dBm)
Frequency (MHz)				3405	3452.5	3500	3547.5	3595	
10	1	0	QPSK	13.67	13.68	13.71	13.58	13.56	14.50
		25	QPSK	13.50	13.47	13.62	13.53	13.60	14.50
		49	QPSK	13.57	13.38	13.56	13.52	13.45	14.50
	25	0	QPSK	12.63	12.65	12.71	12.65	12.66	13.50
		12	QPSK	12.27	12.41	12.43	12.42	12.37	13.50
		25	QPSK	12.40	12.49	12.40	12.32	12.49	13.50
	50	0	QPSK	12.27	12.38	12.44	12.44	12.31	13.50
10	1	0	16QAM	12.74	12.74	12.73	12.71	12.64	13.50
		25	16QAM	12.43	12.63	12.70	12.57	12.60	13.50
		49	16QAM	12.70	12.59	12.67	12.65	12.67	13.50
	25	0	16QAM	11.44	11.41	11.61	11.43	11.48	12.50
		12	16QAM	11.51	11.38	11.45	11.49	11.43	12.50
		25	16QAM	11.42	11.46	11.52	11.32	11.47	12.50
	50	0	16QAM	11.45	11.37	11.55	11.32	11.42	12.50
Channel				41615	42103	42590	43078	43565	Tune-up limit (dBm)
Frequency (MHz)				3402.5	3451.3	3500	3548.8	3597.5	
5	1	0	QPSK	13.62	13.62	13.73	13.45	13.59	14.50
		12	QPSK	13.41	13.52	13.52	13.45	13.48	14.50
		24	QPSK	13.52	13.46	13.54	13.56	13.45	14.50
	12	0	QPSK	12.69	12.71	12.75	12.65	12.59	13.50
		7	QPSK	12.25	12.44	12.41	12.39	12.42	13.50
		13	QPSK	12.35	12.39	12.50	12.42	12.41	13.50
	25	0	QPSK	12.34	12.30	12.43	12.45	12.40	13.50
5	1	0	16QAM	12.80	12.73	12.74	12.69	12.70	13.50
		12	16QAM	12.54	12.63	12.64	12.54	12.59	13.50
		24	16QAM	12.62	12.54	12.78	12.76	12.67	13.50
	12	0	16QAM	11.50	11.54	11.56	11.44	11.46	12.50
		7	16QAM	11.53	11.45	11.50	11.40	11.45	12.50
		13	16QAM	11.52	11.41	11.56	11.42	11.44	12.50
	25	0	16QAM	11.47	11.50	11.49	11.42	11.34	12.50

8.3.11 LTE Band42 Output Power

LTE B42 ANT5									
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				41690	42140	42590	43040	43490	Tune-up limit (dBm)
Frequency (MHz)				3410	3455	3500	3545	3590	
20	1	0	QPSK	13.57	13.58	13.66	13.52	13.57	14.00
		49	QPSK	13.49	13.55	13.56	13.41	13.49	14.00
		99	QPSK	13.41	13.38	13.53	13.45	13.38	14.00
	50	0	QPSK	12.56	12.59	12.64	12.58	12.54	13.00
		24	QPSK	12.44	12.42	12.50	12.40	12.36	13.00
		50	QPSK	12.42	12.46	12.53	12.38	12.43	13.00
	100	0	QPSK	12.41	12.45	12.54	12.40	12.47	13.00
20	1	0	16QAM	12.72	12.71	12.76	12.64	12.65	13.00
		49	16QAM	12.71	12.65	12.75	12.62	12.72	13.00
		99	16QAM	12.68	12.75	12.83	12.79	12.68	13.00
	50	0	16QAM	11.51	11.45	11.55	11.41	11.40	12.00
		24	16QAM	11.45	11.45	11.53	11.41	11.39	12.00
		50	16QAM	11.45	11.45	11.57	11.47	11.56	12.00
	100	0	16QAM	11.51	11.44	11.54	11.53	11.44	12.00
Channel				41665	42128	42590	43053	43515	Tune-up limit (dBm)
Frequency (MHz)				3407.5	3453.8	3500	3546.3	3592.5	
15	1	0	QPSK	13.42	13.45	13.62	13.45	13.45	14.00
		37	QPSK	13.35	13.50	13.43	13.34	13.36	14.00
		74	QPSK	13.38	13.30	13.41	13.42	13.34	14.00
	36	0	QPSK	12.51	12.49	12.61	12.50	12.45	13.00
		20	QPSK	12.31	12.27	12.43	12.34	12.30	13.00
		39	QPSK	12.33	12.33	12.40	12.25	12.28	13.00
	75	0	QPSK	12.40	12.38	12.45	12.25	12.41	13.00
15	1	0	16QAM	12.66	12.70	12.66	12.51	12.60	13.00
		37	16QAM	12.64	12.50	12.61	12.55	12.70	13.00
		74	16QAM	12.60	12.64	12.73	12.67	12.66	13.00
	36	0	16QAM	11.43	11.31	11.49	11.35	11.39	12.00
		20	16QAM	11.31	11.35	11.38	11.40	11.36	12.00
		39	16QAM	11.42	11.44	11.51	11.42	11.45	12.00
	75	0	16QAM	11.43	11.35	11.39	11.48	11.37	12.00
Channel				41640	42115	42590	43065	43540	Tune-up limit (dBm)
Frequency (MHz)				3405	3452.5	3500	3547.5	3595	
10	1	0	QPSK	13.46	13.50	13.62	13.46	13.45	14.00
		25	QPSK	13.44	13.48	13.50	13.34	13.48	14.00
		49	QPSK	13.35	13.37	13.46	13.32	13.35	14.00
	25	0	QPSK	12.42	12.51	12.55	12.47	12.48	13.00
		12	QPSK	12.29	12.28	12.35	12.26	12.32	13.00
		25	QPSK	12.28	12.35	12.52	12.37	12.31	13.00
	50	0	QPSK	12.26	12.33	12.43	12.25	12.42	13.00
10	1	0	16QAM	12.66	12.63	12.71	12.63	12.59	13.00
		25	16QAM	12.69	12.53	12.67	12.54	12.66	13.00
		49	16QAM	12.57	12.65	12.74	12.66	12.57	13.00
	25	0	16QAM	11.42	11.30	11.53	11.32	11.29	12.00
		12	16QAM	11.42	11.33	11.42	11.31	11.27	12.00
		25	16QAM	11.41	11.30	11.52	11.38	11.54	12.00
	50	0	16QAM	11.44	11.41	11.46	11.41	11.43	12.00
Channel				41615	42103	42590	43078	43565	Tune-up limit (dBm)
Frequency (MHz)				3402.5	3451.3	3500	3548.8	3597.5	
5	1	0	QPSK	13.50	13.51	13.61	13.37	13.45	14.00
		12	QPSK	13.43	13.42	13.44	13.38	13.41	14.00
		24	QPSK	13.30	13.26	13.43	13.33	13.35	14.00
	12	0	QPSK	12.52	12.49	12.53	12.48	12.49	13.00
		7	QPSK	12.33	12.27	12.41	12.25	12.27	13.00
		13	QPSK	12.37	12.31	12.46	12.27	12.38	13.00
	25	0	QPSK	12.28	12.34	12.39	12.38	12.42	13.00
5	1	0	16QAM	12.71	12.57	12.65	12.55	12.60	13.00
		12	16QAM	12.61	12.63	12.66	12.56	12.65	13.00
		24	16QAM	12.66	12.60	12.73	12.71	12.65	13.00
	12	0	16QAM	11.46	11.31	11.50	11.27	11.36	12.00
		7	16QAM	11.40	11.42	11.39	11.30	11.29	12.00
		13	16QAM	11.31	11.37	11.47	11.32	11.47	12.00
	25	0	16QAM	11.40	11.31	11.53	11.44	11.38	12.00

8.3.11 LTE Band42 Output Power

LTE B42 ANT6									
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				41690	42140	42590	43040	43490	
Frequency (MHz)				3410	3455	3500	3545	3590	
20	1	0	QPSK	7.52	7.54	7.64	7.52	7.59	8.00
		49	QPSK	7.44	7.41	7.53	7.45	7.45	8.00
		99	QPSK	7.34	7.34	7.49	7.41	7.39	8.00
	50	0	QPSK	6.49	6.47	6.59	6.55	6.57	7.00
		24	QPSK	6.42	6.36	6.44	6.42	6.32	7.00
		50	QPSK	6.45	6.41	6.49	6.46	6.37	7.00
	100	0	QPSK	6.48	6.56	6.58	6.47	6.49	7.00
20	1	0	16QAM	6.80	6.88	6.91	6.82	6.79	7.00
		49	16QAM	6.62	6.59	6.63	6.53	6.50	7.00
		99	16QAM	6.74	6.68	6.79	6.69	6.70	7.00
	50	0	16QAM	5.57	5.57	5.59	5.52	5.56	6.00
		24	16QAM	5.36	5.47	5.50	5.37	5.42	6.00
		50	16QAM	5.48	5.42	5.56	5.44	5.41	6.00
	100	0	16QAM	5.53	5.42	5.57	5.53	5.52	6.00
Channel				41665	42128	42590	43053	43515	Tune-up limit (dBm)
Frequency (MHz)				3407.5	3453.8	3500	3546.3	3592.5	
15	1	0	QPSK	7.44	7.53	7.56	7.43	7.53	8.00
		37	QPSK	7.42	7.34	7.48	7.34	7.36	8.00
		74	QPSK	7.29	7.31	7.37	7.37	7.36	8.00
	36	0	QPSK	6.48	6.32	6.53	6.43	6.43	7.00
		20	QPSK	6.39	6.26	6.42	6.41	6.28	7.00
		39	QPSK	6.44	6.40	6.48	6.33	6.27	7.00
	75	0	QPSK	6.40	6.49	6.50	6.43	6.36	7.00
15	1	0	16QAM	6.67	6.82	6.76	6.77	6.73	7.00
		37	16QAM	6.49	6.52	6.50	6.46	6.35	7.00
		74	16QAM	6.59	6.55	6.66	6.54	6.60	7.00
	36	0	16QAM	5.49	5.49	5.46	5.49	5.43	6.00
		20	16QAM	5.34	5.44	5.35	5.30	5.28	6.00
		39	16QAM	5.40	5.28	5.50	5.34	5.35	6.00
	75	0	16QAM	5.43	5.33	5.53	5.46	5.44	6.00
Channel				41640	42115	42590	43065	43540	Tune-up limit (dBm)
Frequency (MHz)				3405	3452.5	3500	3547.5	3595	
10	1	0	QPSK	7.37	7.44	7.56	7.46	7.44	8.00
		25	QPSK	7.43	7.34	7.40	7.35	7.44	8.00
		49	QPSK	7.22	7.27	7.41	7.39	7.24	8.00
	25	0	QPSK	6.48	6.35	6.58	6.51	6.44	7.00
		12	QPSK	6.29	6.33	6.34	6.30	6.18	7.00
		25	QPSK	6.44	6.39	6.34	6.44	6.26	7.00
	50	0	QPSK	6.36	6.52	6.51	6.36	6.37	7.00
10	1	0	16QAM	6.79	6.86	6.85	6.68	6.73	7.00
		25	16QAM	6.50	6.57	6.55	6.48	6.43	7.00
		49	16QAM	6.59	6.61	6.71	6.67	6.56	7.00
	25	0	16QAM	5.56	5.44	5.47	5.39	5.44	6.00
		12	16QAM	5.27	5.45	5.47	5.25	5.29	6.00
		25	16QAM	5.44	5.39	5.44	5.29	5.37	6.00
	50	0	16QAM	5.39	5.37	5.43	5.52	5.46	6.00
Channel				41615	42103	42590	43078	43565	Tune-up limit (dBm)
Frequency (MHz)				3402.5	3451.3	3500	3548.8	3597.5	
5	1	0	QPSK	7.42	7.44	7.52	7.37	7.45	8.00
		12	QPSK	7.33	7.38	7.42	7.40	7.35	8.00
		24	QPSK	7.33	7.29	7.38	7.28	7.28	8.00
	12	0	QPSK	6.40	6.45	6.54	6.42	6.49	7.00
		7	QPSK	6.36	6.31	6.31	6.41	6.19	7.00
		13	QPSK	6.41	6.38	6.39	6.39	6.32	7.00
	25	0	QPSK	6.40	6.43	6.52	6.35	6.36	7.00
5	1	0	16QAM	6.66	6.75	6.78	6.69	6.72	7.00
		12	16QAM	6.54	6.56	6.55	6.46	6.36	7.00
		24	16QAM	6.62	6.65	6.77	6.62	6.66	7.00
	12	0	16QAM	5.47	5.47	5.47	5.43	5.45	6.00
		7	16QAM	5.29	5.35	5.46	5.22	5.36	6.00
		13	16QAM	5.47	5.41	5.43	5.36	5.38	6.00
	25	0	16QAM	5.46	5.40	5.53	5.47	5.41	6.00

8.3.11 LTE Band42 Output Power

LTE B42 ANT7									
BW [MHz]	RB Size	RB Offset	Modulation	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				41690	42140	42590	43040	43490	(dBm)
Frequency (MHz)				3410	3455	3500	3545	3590	
20	1	0	QPSK	13.50	13.55	13.57	13.48	13.52	14.00
		49	QPSK	13.31	13.33	13.46	13.35	13.39	14.00
		99	QPSK	13.55	13.44	13.53	13.55	13.56	14.00
	50	0	QPSK	12.50	12.55	12.58	12.55	12.50	13.00
		24	QPSK	12.46	12.37	12.47	12.35	12.44	13.00
		50	QPSK	12.38	12.48	12.52	12.51	12.43	13.00
	100	0	QPSK	12.51	12.47	12.52	12.38	12.39	13.00
20	1	0	16QAM	12.81	12.77	12.83	12.76	12.71	13.00
		49	16QAM	12.59	12.56	12.63	12.53	12.55	13.00
		99	16QAM	12.73	12.78	12.80	12.69	12.74	13.00
	50	0	16QAM	11.55	11.56	11.57	11.43	11.44	12.00
		24	16QAM	11.34	11.35	11.48	11.36	11.37	12.00
		50	16QAM	11.45	11.44	11.54	11.47	11.41	12.00
	100	0	16QAM	11.38	11.44	11.53	11.40	11.49	12.00
Channel				41665	42128	42590	43053	43515	Tune-up limit (dBm)
Frequency (MHz)				3407.5	3453.8	3500	3546.3	3592.5	
15	1	0	QPSK	13.47	13.50	13.56	13.36	13.46	14.00
		37	QPSK	13.18	13.21	13.36	13.26	13.31	14.00
		74	QPSK	13.47	13.42	13.46	13.47	13.47	14.00
	36	0	QPSK	12.48	12.51	12.44	12.47	12.48	13.00
		20	QPSK	12.41	12.31	12.46	12.33	12.35	13.00
		39	QPSK	12.32	12.37	12.39	12.43	12.31	13.00
	75	0	QPSK	12.45	12.36	12.42	12.34	12.28	13.00
15	1	0	16QAM	12.71	12.68	12.70	12.65	12.62	13.00
		37	16QAM	12.56	12.45	12.58	12.41	12.44	13.00
		74	16QAM	12.60	12.64	12.75	12.60	12.66	13.00
	36	0	16QAM	11.50	11.41	11.55	11.41	11.32	12.00
		20	16QAM	11.31	11.27	11.42	11.31	11.31	12.00
		39	16QAM	11.32	11.31	11.44	11.39	11.36	12.00
	75	0	16QAM	11.32	11.33	11.50	11.35	11.43	12.00
Channel				41640	42115	42590	43065	43540	Tune-up limit (dBm)
Frequency (MHz)				3405	3452.5	3500	3547.5	3595	
10	1	0	QPSK	13.47	13.44	13.53	13.45	13.37	14.00
		25	QPSK	13.21	13.26	13.42	13.26	13.38	14.00
		49	QPSK	13.46	13.33	13.48	13.50	13.43	14.00
	25	0	QPSK	12.44	12.45	12.52	12.40	12.46	13.00
		12	QPSK	12.41	12.31	12.45	12.27	12.40	13.00
		25	QPSK	12.31	12.42	12.43	12.44	12.31	13.00
	50	0	QPSK	12.48	12.46	12.40	12.25	12.30	13.00
10	1	0	16QAM	12.67	12.65	12.72	12.62	12.57	13.00
		25	16QAM	12.46	12.44	12.49	12.40	12.43	13.00
		49	16QAM	12.69	12.63	12.65	12.56	12.70	13.00
	25	0	16QAM	11.40	11.45	11.50	11.40	11.30	12.00
		12	16QAM	11.33	11.32	11.33	11.34	11.27	12.00
		25	16QAM	11.41	11.29	11.40	11.42	11.40	12.00
	50	0	16QAM	11.23	11.33	11.46	11.34	11.47	12.00
Channel				41615	42103	42590	43078	43565	Tune-up limit (dBm)
Frequency (MHz)				3402.5	3451.3	3500	3548.8	3597.5	
5	1	0	QPSK	13.35	13.48	13.54	13.46	13.50	14.00
		12	QPSK	13.22	13.25	13.43	13.33	13.27	14.00
		24	QPSK	13.40	13.30	13.41	13.52	13.47	14.00
	12	0	QPSK	12.44	12.41	12.55	12.54	12.47	13.00
		7	QPSK	12.43	12.32	12.36	12.23	12.42	13.00
		13	QPSK	12.23	12.35	12.50	12.44	12.37	13.00
	25	0	QPSK	12.46	12.46	12.42	12.33	12.36	13.00
5	1	0	16QAM	12.72	12.66	12.75	12.68	12.58	13.00
		12	16QAM	12.44	12.48	12.49	12.52	12.47	13.00
		24	16QAM	12.62	12.64	12.73	12.68	12.67	13.00
	12	0	16QAM	11.53	11.44	11.53	11.29	11.36	12.00
		7	16QAM	11.33	11.27	11.40	11.28	11.34	12.00
		13	16QAM	11.41	11.32	11.47	11.32	11.32	12.00
	25	0	16QAM	11.26	11.35	11.47	11.33	11.34	12.00

8.3.12 LTE Band5 Output Power

Full power										
LTE Uplink CA_ Band 5 -Ant.3										
Combination 10MHz+10MHz(50RB+50RB)										
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.			
20450	20549	20	QPSK	1	49	1	0	2	24.98	25.50
20525	20426	20	QPSK	1	49	1	0	2	25.13	25.50
20600	20501	20	QPSK	1	0	1	49	2	25.04	25.50

Full power										
LTE Uplink CA_ Band 5 -Ant.4										
Combination 10MHz+10MHz(50RB+50RB)										
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.			
20450	20549	20	QPSK	1	49	1	0	2	18.83	19.50
20525	20426	20	QPSK	1	49	1	0	2	19.01	19.50
20600	20501	20	QPSK	1	0	1	9	2	18,82	19.50

8.3.13 LTE Band7 Output Power

Full power										
LTE Uplink CA_ Band 7 -Ant.5										
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.			
20850	21048	20	QPSK	1	99	1	0	2	10.12	11.50
21100	21298	20	QPSK	1	99	1	0	2	10.15	11.50
21350	21152	20	QPSK	1	0	1	99	2	10.04	11.50

Full power										
LTE Uplink CA_ Band 7 -Ant.6										
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.			
20850	21048	20	QPSK	1	99	1	0	2	10.02	11.50
21100	21298	20	QPSK	1	99	1	0	2	10.10	11.50
21350	21152	20	QPSK	1	0	1	99	2	10.05	11.50

8.3.14 LTE Band66 Output Power

Full power										
LTE Uplink CA_ Band 66 -Ant.5										
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.			
132072	132270	20	QPSK	1	99	1	0	2	14.87	15.50
132322	132520	20	QPSK	1	99	1	0	2	15.03	15.50
132572	132374	20	QPSK	1	0	1	99	2	14.96	15.50

Full power										
LTE Uplink CA_ Band 66 -Ant.6										
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.			
132072	132270	20	QPSK	1	99	1	0	2	15.11	15.50
132322	132520	20	QPSK	1	99	1	0	2	15.15	15.50
132572	132374	20	QPSK	1	0	1	99	2	15.06	15.50

8.3.15 LTE Band38 Output Power

Full power										
LTE Uplink CA_ Band 38 -Ant.5										
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.			
37850	38048	20	QPSK	1	99	1	0	2	15.36	16.00
38000	38198	20	QPSK	1	99	1	0	2	15.42	16.00
38150	37952	20	QPSK	1	0	1	99	2	15.38	16.00

Full power										
LTE Uplink CA_ Band 38 -Ant.6										
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.			
37850	38048	20	QPSK	1	99	1	0	2	15.27	16.00
38000	38198	20	QPSK	1	99	1	0	2	15.39	16.00
38150	37952	20	QPSK	1	0	1	99	2	15.31	16.00

8.3.16 LTE Band41 Output Power

Full power										
LTE Uplink CA_ Band 41 -Ant.5										
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	99	1	0	2	15.41	16.00
40185	40383	20	QPSK	1	99	1	0	2	15.52	16.00
40620	40818	20	QPSK	1	99	1	0	2	15.59	16.00
41055	41253	20	QPSK	1	0	1	99	2	15.41	16.00
41490	41688	20	QPSK	1	0	1	99	2	15.53	16.00

Full power										
LTE Uplink CA_ Band 41 -Ant.6										
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	99	1	0	2	14.26	15.00
40185	40383	20	QPSK	1	99	1	0	2	14.32	15.00
40620	40818	20	QPSK	1	99	1	0	2	14.41	15.00
41055	41253	20	QPSK	1	0	1	99	2	14.36	15.00
41490	41688	20	QPSK	1	0	1	99	2	14.32	15.00

8.4.1 NR Band5 Output Power

N5-ANT3 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up limit (dBm)
Channel				167300			836.5
Frequency(MHz)				836.5			
25	PI/2 BPSK	1	1		24.14		24.50
		1	53		24.12		24.50
		1	104		24.06		24.50
		50	0		23.82		24.00
		50	28		23.88		24.50
		50	56		23.68		24.00
		100	0		23.60		24.00
	QPSK	1	1		24.09		24.50
		1	53		24.11		24.50
		1	104		24.06		24.50
		50	0		23.11		23.50
		50	28		24.13		24.50
		50	56		23.18		23.50
		100	0		23.18		23.50
	16QAM	1	1		23.43		23.50
	64QAM	1	1		21.72		22.00
Channel				166800	167300	167800	Tune-up power(dB
Frequency(MHz)				834	836.5	839	
20	QPSK	1	1	24.10	24.12	24.11	24.50
Channel				166300	167300	168300	Tune-up power(dB
Frequency(MHz)				831.5	836.5	841.5	
15	QPSK	1	1	23.98	24.03	24.07	24.50
Channel				165800	167300	168800	Tune-up power(dB
Frequency(MHz)				829	836.5	844	
10	QPSK	1	1	24.04	23.97	24.05	24.50
Channel				165300	167300	169300	Tune-up power(dB
Frequency(MHz)				826.5	836.5	846.5	
5	QPSK	1	1	24.04	24.11	23.99	24.50

8.4.1 NR Band5 Output Power

N5-ANT4 Full power								
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up limit (dBm)	
Channel				167300				
Frequency(MHz)				836.5				
25	PI/2 BPSK	1	1		18.61		19.50	
		1	53		18.51		19.50	
		1	104		18.56		19.50	
		50	0		17.98		19.00	
		50	28		18.50		19.50	
		50	56		18.06		19.00	
		100	0		17.96		19.00	
		1	1		18.47		19.50	
	QPSK	1	53		18.53		19.50	
		1	104		18.47		19.50	
		50	0		17.56		18.50	
		50	28		18.52		19.50	
		50	56		17.47		18.50	
		100	0		17.48		18.50	
		16QAM	1		1		17.88	18.50
		64QAM	1		1		16.35	17.00
Channel				166800	167300	167800	Tune-up	
Frequency(MHz)				834	836.5	839	power(dB	
20	QPSK	1	1	18.53	18.58	18.51	19.50	
Channel				166300	167300	168300	Tune-up	
Frequency(MHz)				831.5	836.5	841.5	power(dB	
15	QPSK	1	1	18.49	18.52	18.49	19.50	
Channel				165800	167300	168800	Tune-up	
Frequency(MHz)				829	836.5	844	power(dB	
10	QPSK	1	1	18.46	18.55	18.38	19.50	
Channel				165300	167300	169300	Tune-up	
Frequency(MHz)				826.5	836.5	846.5	power(dB	
5	QPSK	1	1	18.52	18.45	18.36	19.50	

8.4.2 NR Band7 Output Power

N7-ANT5 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	Tune-up limit (dBm)
Frequency(MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	12.94	13.06	12.97	13.30
		1	135	13.00	13.04	12.94	13.30
		1	268	12.79	12.93	12.83	13.30
		135	0	12.42	12.49	12.42	12.80
		135	68	12.86	12.91	12.77	13.30
		135	135	12.40	12.46	12.32	12.80
		270	0	12.44	12.53	12.51	12.80
	QPSK	1	1	12.95	13.05	12.93	13.30
		1	135	13.03	13.04	13.00	13.30
		1	268	12.91	13.03	12.95	13.30
		135	0	12.00	12.01	11.95	12.30
		135	68	12.87	12.95	12.83	13.30
		135	135	11.97	12.02	11.98	12.30
		270	0	11.96	11.98	11.88	12.30
	16QAM	1	1	12.16	12.21	12.06	12.30
	64QAM	1	1	10.26	10.33	10.22	10.80
Channel				504000	507000	510000	Tune-up power(dB)
Frequency(MHz)				2520	2535	2550	
40	QPSK	1	1	12.92	12.98	12.84	13.30
Channel				503000	507000	511000	Tune-up power(dB)
Frequency(MHz)				2515	2535	2555	
30	QPSK	1	1	12.93	13.00	12.82	13.30
Channel				502500	507000	511500	Tune-up power(dB)
Frequency(MHz)				2512.5	2535	2557.5	
25	QPSK	1	1	12.83	13.04	12.92	13.30
Channel				502000	507000	512000	Tune-up power(dB)
Frequency(MHz)				2510	2535	2560	
20	QPSK	1	1	12.80	12.96	12.86	13.30
Channel				501500	507000	512500	Tune-up power(dB)
Frequency(MHz)				2507.5	2535	2562.5	
15	QPSK	1	1	12.88	13.05	12.89	13.30
Channel				501000	507000	513000	Tune-up power(dB)
Frequency(MHz)				2505	2535	2565	
10	QPSK	1	1	12.90	12.92	12.87	13.30
Channel				500500	507000	513500	Tune-up power(dB)
Frequency(MHz)				2502.5	2535	2567.5	
5	QPSK	1	1	12.85	12.94	12.84	13.30

8.4.2 NR Band7 Output Power

N7-ANT6 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	13.30
Frequency(MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	11.77	11.82	11.76	13.30
		1	135	11.58	11.72	11.57	13.30
		1	268	11.78	11.80	11.72	13.30
		135	0	11.17	11.21	11.10	12.80
		135	68	11.65	11.78	11.76	13.30
		135	135	11.14	11.24	11.13	12.80
		270	0	11.08	11.20	11.05	12.80
	QPSK	1	1	11.67	11.71	11.57	13.30
		1	135	11.68	11.69	11.59	13.30
		1	268	11.74	11.78	11.65	13.30
		135	0	10.62	10.73	10.67	12.30
		135	68	11.65	11.73	11.71	13.30
		135	135	10.80	10.81	10.76	12.30
		270	0	10.69	10.70	10.67	12.30
	16QAM	1	1	10.93	11.02	10.99	12.30
	64QAM	1	1	9.19	9.31	9.29	10.80
Channel				504000	507000	510000	13.30
Frequency(MHz)				2520	2535	2550	
40	QPSK	1	1	11.72	11.76	11.74	13.30
Channel				503000	507000	511000	13.30
Frequency(MHz)				2515	2535	2555	
30	QPSK	1	1	11.73	11.74	11.64	13.30
Channel				502500	507000	511500	13.30
Frequency(MHz)				2512.5	2535	2557.5	
25	QPSK	1	1	11.67	11.75	11.63	13.30
Channel				502000	507000	512000	13.30
Frequency(MHz)				2510	2535	2560	
20	QPSK	1	1	11.62	11.75	11.72	13.30
Channel				501500	507000	512500	13.30
Frequency(MHz)				2507.5	2535	2562.5	
15	QPSK	1	1	11.69	11.73	11.73	13.30
Channel				501000	507000	513000	13.30
Frequency(MHz)				2505	2535	2565	
10	QPSK	1	1	11.67	11.73	11.67	13.30
Channel				500500	507000	513500	13.30
Frequency(MHz)				2502.5	2535	2567.5	
5	QPSK	1	1	11.75	11.78	11.74	13.30

8.4.3 NR Band12 Output Power

N12-ANT3 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	Tune-up limit (dBm)
Frequency(MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.21	23.26	23.18	23.50
		1	40	23.07	23.21	23.17	23.50
		1	77	23.17	23.23	23.10	23.50
		36	0	22.68	22.75	22.67	23.00
		36	22	23.11	23.14	23.06	23.50
		36	43	22.47	22.61	22.51	23.00
		75	0	22.60	22.67	22.61	23.00
	QPSK	1	1	23.19	23.22	23.14	23.50
		1	40	23.08	23.15	23.14	23.50
		1	77	23.17	23.20	23.18	23.50
		36	0	22.28	22.33	22.31	22.50
		36	22	23.10	23.24	23.13	23.50
		36	43	22.21	22.31	22.16	22.50
		75	0	22.26	22.34	22.20	22.50
	16QAM	1	1	22.34	22.46	22.32	22.50
	64QAM	1	1	20.61	20.76	20.62	21.00
Channel				140800	141500	142200	Tune-up power(dB)
Frequency(MHz)				704	707.5	711	
10	QPSK	1	1	23.14	23.14	23.11	23.50
Channel				140300	141500	142700	Tune-up power(dB)
Frequency(MHz)				701.5	707.5	713.5	
5	QPSK	1	1	23.15	23.12	23.10	23.50

8.4.3 NR Band12 Output Power

N12-ANT4 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	Tune-up limit (dBm)
Frequency(MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.95	23.13	22.97	24.50
		1	40	22.91	23.09	22.95	24.50
		1	77	22.99	23.11	22.94	24.50
		36	0	22.43	22.47	22.38	24.00
		36	22	22.90	22.98	22.87	24.50
		36	43	22.17	22.39	22.24	24.00
		75	0	22.37	22.48	22.37	24.00
	QPSK	1	1	22.96	23.01	22.88	24.50
		1	40	22.91	22.99	22.98	24.50
		1	77	23.01	22.92	22.95	24.50
		36	0	22.11	22.13	22.06	23.50
		36	22	22.93	22.98	22.83	24.50
		36	43	21.96	22.12	21.95	23.50
		75	0	21.96	22.10	21.94	23.50
	16QAM	1	1	22.09	22.29	22.09	23.50
	64QAM	1	1	20.38	20.48	20.40	22.00
Channel				140800	141500	142200	Tune-up power(dB)
Frequency(MHz)				704	707.5	711	
10	QPSK	1	1	22.93	22.99	22.91	24.50
Channel				140300	141500	142700	Tune-up power(dB)
Frequency(MHz)				701.5	707.5	713.5	
5	QPSK	1	1	22.89	23.05	22.84	24.50

8.4.4 NR Ban66 Output Power

N66-ANT5 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	13.50
Frequency(MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	12.78	12.91	12.79	13.50
		1	108	12.72	12.83	12.79	13.50
		1	214	12.78	12.85	12.75	13.50
		108	0	12.15	12.29	12.20	13.00
		108	54	12.75	12.89	12.77	13.50
		108	108	12.34	12.40	12.36	13.00
		216	0	12.34	12.40	12.39	13.00
	QPSK	1	1	12.73	12.76	12.64	13.50
		1	108	12.69	12.84	12.81	13.50
		1	214	12.70	12.80	12.79	13.50
		108	0	11.76	11.85	11.82	12.50
		108	54	12.80	12.88	12.87	13.50
		108	108	11.72	11.76	11.69	12.50
		216	0	11.75	11.81	11.72	12.50
	16QAM	1	1	12.14	12.17	12.09	12.50
	64QAM	1	1	10.28	10.38	10.35	11.00
Channel				345000	349000	353000	13.50
Frequency(MHz)				1725	1745	1765	
30	QPSK	1	1	12.70	12.82	12.70	13.50
Channel				344500	349000	353500	13.50
Frequency(MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	12.72	12.82	12.76	13.50
Channel				344000	349000	354000	13.50
Frequency(MHz)				1720	1745	1770	
20	QPSK	1	1	12.66	12.80	12.75	13.50
Channel				343500	349000	354500	13.50
Frequency(MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	12.68	12.79	12.72	13.50
Channel				343000	349000	355000	13.50
Frequency(MHz)				1715	1745	1775	
10	QPSK	1	1	12.74	12.78	12.76	13.50
Channel				342500	349000	355500	13.50
Frequency(MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	12.67	12.86	12.77	13.50

8.2.4 NR Band66 Output Power

N66-ANT6 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	Tune-up limit (dBm)
Frequency(MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	10.24	10.29	10.23	11.50
		1	108	10.10	10.16	10.06	11.50
		1	214	10.15	10.16	10.04	11.50
		108	0	9.64	9.77	9.69	11.00
		108	54	10.11	10.20	10.11	11.50
		108	108	9.65	9.68	9.59	11.00
		216	0	9.67	9.76	9.72	11.00
	QPSK	1	1	10.05	10.20	10.16	11.50
		1	108	10.18	10.24	10.12	11.50
		1	214	10.12	10.14	10.13	11.50
		108	0	9.11	9.23	9.19	10.50
		108	54	10.09	10.21	10.07	11.50
		108	108	9.07	9.15	9.11	10.50
		216	0	9.14	9.23	9.09	10.50
	16QAM	1	1	9.31	9.39	9.27	10.50
	64QAM	1	1	7.45	7.56	7.46	9.00
Channel				345000	349000	353000	Tune-up power(dB)
Frequency(MHz)				1725	1745	1765	
30	QPSK	1	1	10.20	10.21	10.11	11.50
Channel				344500	349000	353500	Tune-up power(dB)
Frequency(MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	10.13	10.28	10.08	11.50
Channel				344000	349000	354000	Tune-up power(dB)
Frequency(MHz)				1720	1745	1770	
20	QPSK	1	1	10.12	10.22	10.16	11.50
Channel				343500	349000	354500	Tune-up power(dB)
Frequency(MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	10.12	10.28	10.17	11.50
Channel				343000	349000	355000	Tune-up power(dB)
Frequency(MHz)				1715	1745	1775	
10	QPSK	1	1	10.13	10.25	10.12	11.50
Channel				342500	349000	355500	Tune-up power(dB)
Frequency(MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	10.15	10.25	10.18	11.50

8.4.5 NR Band38 Output Power

N38-ANT5 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up power(dB m)
Channel				518004	519000	519996	9.00
Frequency(MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	8.49	8.62	8.49	9.00
		1	53	8.46	8.53	8.45	9.00
		1	104	8.43	8.52	8.46	9.00
		50	0	7.86	8.00	7.95	8.50
		50	28	8.33	8.48	8.38	9.00
		50	56	8.04	8.09	8.08	8.50
		100	0	7.91	8.00	7.91	8.50
	QPSK	1	1	8.40	8.52	8.42	9.00
		1	53	8.42	8.53	8.39	9.00
		1	104	8.39	8.48	8.34	9.00
		50	0	7.46	7.55	7.45	8.00
		50	28	8.45	8.56	8.51	9.00
		50	56	7.48	7.53	7.47	8.00
		100	0	7.45	7.50	7.38	8.00
	16QAM	1	1	7.61	7.68	7.59	8.00
	64QAM	1	1	6.19	6.28	6.27	6.50
Channel				517002	519000	520998	9.00
Frequency(MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	8.46	8.59	8.42	9.00
Channel				516504	519000	521496	9.00
Frequency(MHz)				2582.52	2595	2607.48	
25	QPSK	1	1	8.35	8.60	8.36	9.00
Channel				516000	519000	522000	9.00
Frequency(MHz)				2580	2595	2610	
20	QPSK	1	1	8.36	8.60	8.34	9.00
Channel				515502	519000	522498	9.00
Frequency(MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	8.43	8.57	8.38	9.00
Channel				515004	519000	522996	9.00
Frequency(MHz)				2575.02	2595	2614.98	
10	QPSK	1	1	8.44	8.61	8.37	9.00
Channel				514500	519000	523500	9.00
Frequency(MHz)				2572.5	2595	2617.5	
5	QPSK	1	1	8.35	8.58	8.44	9.00

8.4.5 NR Band38 Output Power

N38-ANT6 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up power(dB m)
Channel				518004	519000	519996	9.40
Frequency(MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	8.36	8.59	8.47	9.40
		1	53	8.35	8.42	8.44	9.40
		1	104	8.28	8.48	8.39	9.40
		50	0	7.76	7.87	7.83	8.90
		50	28	8.18	8.43	8.34	9.40
		50	56	7.91	7.97	7.99	8.90
		100	0	7.78	7.93	7.86	8.90
	QPSK	1	1	8.28	8.44	8.37	9.40
		1	53	8.38	8.49	8.34	9.40
		1	104	8.37	8.44	8.21	9.40
		50	0	7.41	7.41	7.35	8.40
		50	28	8.41	8.52	8.39	9.40
		50	56	7.37	7.42	7.44	8.40
		100	0	7.35	7.42	7.37	8.40
	16QAM	1	1	7.57	7.56	7.52	8.40
	64QAM	1	1	6.08	6.20	6.24	6.90
Channel				517002	519000	520998	9.40
Frequency(MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	8.39	8.50	8.44	9.40
Channel				516504	519000	521496	9.40
Frequency(MHz)				2582.52	2595	2607.48	
25	QPSK	1	1	8.43	8.55	8.43	9.40
Channel				516000	519000	522000	9.40
Frequency(MHz)				2580	2595	2610	
20	QPSK	1	1	8.36	8.50	8.35	9.40
Channel				515502	519000	522498	9.40
Frequency(MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	8.40	8.51	8.38	9.40
Channel				515004	519000	522996	9.40
Frequency(MHz)				2575.02	2595	2614.98	
10	QPSK	1	1	8.36	8.57	8.42	9.40
Channel				514500	519000	523500	9.40
Frequency(MHz)				2572.5	2595	2617.5	
5	QPSK	1	1	8.36	8.57	8.42	9.40

8.4.6 NR Band41 Output Power

N41-ANT5 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up power(dB m)
Channel				509202	518598	528000	10.00
Frequency(MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	9.69	9.74	9.63	10.00
		1	137	9.55	9.69	9.65	10.00
		1	271	9.52	9.67	9.57	10.00
		135	0	9.03	9.17	9.07	9.50
		135	69	9.49	9.63	9.58	10.00
		135	138	9.05	9.19	9.17	9.50
		270	0	9.11	9.13	8.98	9.50
	QPSK	1	1	9.62	9.68	9.62	10.00
		1	137	9.65	9.70	9.59	10.00
		1	271	9.66	9.69	9.62	10.00
		135	0	8.50	8.60	8.55	9.00
		135	69	9.68	9.70	9.59	10.00
		135	138	8.63	8.73	8.62	9.00
		270	0	8.45	8.60	8.59	9.00
	16QAM	1	1	8.86	8.89	8.81	9.00
	64QAM	1	1	6.63	6.68	6.67	7.50
Channel				508200	518598	528996	10.00
Frequency(MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	9.63	9.68	9.51	10.00
Channel				507204	518598	529998	10.00
Frequency(MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	9.62	9.69	9.61	10.00
Channel				506202	518598	531000	10.00
Frequency(MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	9.58	9.65	9.60	10.00
Channel				505200	518598	531996	10.00
Frequency(MHz)				2526	2592.99	2659.98	
60	QPSK	1	1	9.65	9.59	9.57	10.00
Channel				504204	518598	532998	10.00
Frequency(MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	9.61	9.67	9.54	10.00
Channel				503202	518598	534000	10.00
Frequency(MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	9.62	9.63	9.54	10.00
Channel				502200	518598	534996	10.00
Frequency(MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	9.66	9.64	9.58	10.00
Channel				501702	518598	535500	10.00
Frequency(MHz)				2508.51	2592.99	2677.5	
25	QPSK	1	1	9.66	9.61	9.52	10.00
Channel				501204	518598	535998	10.00
Frequency(MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	9.59	9.61	9.58	10.00
Channel				500202	518598	537000	10.00
Frequency(MHz)				2501.01	2592.99	2685	
10	QPSK	1	1	9.62	9.65	9.55	10.00

8.4.6 NR Band41 Output Power

N41-ANT6 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up power(dB m)
Channel				509202	518598	528000	9.40
Frequency(MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	8.43	8.54	8.47	9.40
		1	137	8.44	8.51	8.37	9.40
		1	271	8.42	8.38	8.32	9.40
		135	0	7.76	7.93	7.85	8.90
		135	69	8.24	8.35	8.32	9.40
		135	138	7.93	8.06	7.99	8.90
		270	0	7.87	7.97	7.77	8.90
	QPSK	1	1	8.39	8.49	8.38	9.40
		1	137	8.30	8.50	8.37	9.40
		1	271	8.34	8.42	8.22	9.40
		135	0	7.43	7.54	7.38	8.40
		135	69	8.33	8.52	8.40	9.40
		135	138	7.40	7.45	7.44	8.40
		270	0	7.39	7.46	7.37	8.40
	16QAM	1	1	7.49	7.56	7.48	8.40
	64QAM	1	1	6.27	6.33	6.27	6.90
Channel				508200	518598	528996	9.40
Frequency(MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	8.34	8.45	8.34	9.40
Channel				507204	518598	529998	9.40
Frequency(MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	8.33	8.42	8.40	9.40
Channel				506202	518598	531000	9.40
Frequency(MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	8.41	8.44	8.45	9.40
Channel				505200	518598	531996	9.40
Frequency(MHz)				2526	2592.99	2659.98	
60	QPSK	1	1	8.31	8.48	8.33	9.40
Channel				504204	518598	532998	9.40
Frequency(MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	8.32	8.45	8.40	9.40
Channel				503202	518598	534000	9.40
Frequency(MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	8.33	8.45	8.36	9.40
Channel				502200	518598	534996	9.40
Frequency(MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	8.38	8.42	8.36	9.40
Channel				501702	518598	535500	9.40
Frequency(MHz)				2508.51	2592.99	2677.5	
25	QPSK	1	1	8.37	8.49	8.36	9.40
Channel				501204	518598	535998	9.40
Frequency(MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	8.31	8.52	8.34	9.40
Channel				500202	518598	537000	9.40
Frequency(MHz)				2501.01	2592.99	2685	
10	QPSK	1	1	8.30	8.50	8.35	9.40

8.4.7 NR Band77 Output Power

N77-ANT0 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				633332			
Frequency(MHz)				3499.98			
100	PI/2 BPSK	1	1				18.95
		1	137				20.00
		1	271				20.00
		135	0				18.90
		135	69				20.00
		135	138				18.39
		270	0				19.50
		270	0				18.89
	QPSK	1	1				18.40
		1	137				20.00
		1	271				18.39
		135	0				20.00
		135	69				18.85
		135	138				20.00
		270	0				17.93
		270	0				18.91
	16QAM	1	1				17.91
	64QAM	1	1				17.87
Channel				633000	633332	633666	18.01
Frequency(MHz)				3495	3499.98	3504.99	17.50
90	QPSK	1	1	18.87	18.90	18.83	20.00
Channel				632667	633332	633999	
Frequency(MHz)				3490	3499.98	3509.99	
80	QPSK	1	1	18.76	18.75	18.70	20.00
Channel				632333	633332	634332	
Frequency(MHz)				3485	3499.98	3514.99	
70	QPSK	1	1	18.72	18.80	18.80	20.00
Channel				632000	633332	634666	
Frequency(MHz)				3480	3499.98	3519.99	
60	QPSK	1	1	18.77	18.88	18.69	20.00
Channel				631667	633332	634999	
Frequency(MHz)				3475	3499.98	3524.99	
50	QPSK	1	1	18.85	18.83	18.75	20.00
Channel				631333	633332	635332	
Frequency(MHz)				3470	3499.98	3529.99	
40	QPSK	1	1	18.80	18.88	18.70	20.00
Channel				631000	633332	635666	
Frequency(MHz)				3465	3499.98	3534.99	
30	QPSK	1	1	18.74	18.84	18.70	20.00
Channel				630833	633332	635832	
Frequency(MHz)				3462.5	3499.98	3537.49	
25	QPSK	1	1	18.81	18.79	18.69	20.00
Channel				630667	633332	635999	
Frequency(MHz)				3460	3499.98	3539.99	
20	QPSK	1	1	18.84	18.78	18.69	20.00
Channel				630500	633332	636166	
Frequency(MHz)				3457.5	3499.98	3542.49	
15	QPSK	1	1	18.84	18.84	18.75	20.00
Channel				630333	633332	636332	
Frequency(MHz)				3455	3499.98	3544.99	
10	QPSK	1	1	18.75	18.77	18.75	20.00

8.4.7 NR Band77 Output Power

N77-ANT0 Full power-ENDC							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				633332			
Frequency(MHz)				3499.98			
100	PI/2 BPSK	1	1				17.00
		1	137				17.00
		1	271				17.00
		135	0				16.50
		135	69				17.00
		135	138				16.50
		270	0				16.50
	QPSK	1	1				17.00
		1	137				17.00
		1	271				17.00
		135	0				16.00
		135	69				17.00
		135	138				16.00
		270	0				16.00
	16QAM	1	1				16.00
	64QAM	1	1				14.50
Channel				633000	633332	633666	Tune-up
Frequency(MHz)				3495	3499.98	3504.99	power(dB
90	QPSK	1	1	15.79	15.89	15.76	17.00
Channel				632667	633332	633999	Tune-up
Frequency(MHz)				3490	3499.98	3509.99	power(dB
80	QPSK	1	1	15.80	15.83	15.75	17.00
Channel				632333	633332	634332	Tune-up
Frequency(MHz)				3485	3499.98	3514.99	power(dB
70	QPSK	1	1	15.82	15.85	15.77	17.00
Channel				632000	633332	634666	Tune-up
Frequency(MHz)				3480	3499.98	3519.99	power(dB
60	QPSK	1	1	15.78	15.88	15.80	17.00
Channel				631667	633332	634999	Tune-up
Frequency(MHz)				3475	3499.98	3524.99	power(dB
50	QPSK	1	1	15.80	15.85	15.80	17.00
Channel				631333	633332	635332	Tune-up
Frequency(MHz)				3470	3499.98	3529.99	power(dB
40	QPSK	1	1	15.85	15.82	15.81	17.00
Channel				631000	633332	635666	Tune-up
Frequency(MHz)				3465	3499.98	3534.99	power(dB
30	QPSK	1	1	15.81	15.89	15.77	17.00
Channel				630833	633332	635832	Tune-up
Frequency(MHz)				3462.5	3499.98	3537.49	power(dB
25	QPSK	1	1	15.80	15.88	15.75	17.00
Channel				630667	633332	635999	Tune-up
Frequency(MHz)				3460	3499.98	3539.99	power(dB
20	QPSK	1	1	15.86	15.86	15.82	17.00
Channel				630500	633332	636166	Tune-up
Frequency(MHz)				3457.5	3499.98	3542.49	power(dB
15	QPSK	1	1	15.83	15.85	15.82	17.00
Channel				630333	633332	636332	Tune-up
Frequency(MHz)				3455	3499.98	3544.99	power(dB
10	QPSK	1	1	15.86	15.81	15.75	17.00

8.4.7 NR Band77 Output Power

N77-ANT5 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				633332			
Frequency(MHz)				3499.98			
100	PI/2 BPSK	1	1		16.13		17.00
		1	137		16.05		17.00
		1	271		16.09		17.00
		135	0		15.59		16.50
		135	69		16.03		17.00
		135	138		15.58		16.50
	QPSK	270	0		15.49		16.50
		1	1		16.04		17.00
		1	137		16.03		17.00
		1	271		16.01		17.00
		135	0		15.00		16.00
		135	69		16.02		17.00
		135	138		15.03		16.00
		270	0		15.04		16.00
	16QAM	1	1		16.10		17.00
	64QAM	1	1		14.70		15.50
Channel				633000	633332	633666	Tune-up
Frequency(MHz)				3495	3499.98	3504.99	power(dB
90	QPSK	1	1	16.09	16.11	16.06	17.00
Channel				632667	633332	633999	Tune-up
Frequency(MHz)				3490	3499.98	3509.99	power(dB
80	QPSK	1	1	16.03	15.98	16.03	17.00
Channel				632333	633332	634332	Tune-up
Frequency(MHz)				3485	3499.98	3514.99	power(dB
70	QPSK	1	1	15.98	16.10	16.00	17.00
Channel				632000	633332	634666	Tune-up
Frequency(MHz)				3480	3499.98	3519.99	power(dB
60	QPSK	1	1	15.97	15.96	15.99	17.00
Channel				631667	633332	634999	Tune-up
Frequency(MHz)				3475	3499.98	3524.99	power(dB
50	QPSK	1	1	16.04	15.97	15.91	17.00
Channel				631333	633332	635332	Tune-up
Frequency(MHz)				3470	3499.98	3529.99	power(dB
40	QPSK	1	1	15.94	16.10	15.91	17.00
Channel				631000	633332	635666	Tune-up
Frequency(MHz)				3465	3499.98	3534.99	power(dB
30	QPSK	1	1	15.99	16.08	15.92	17.00
Channel				630833	633332	635832	Tune-up
Frequency(MHz)				3462.5	3499.98	3537.49	power(dB
25	QPSK	1	1	16.05	16.05	16.04	17.00
Channel				630667	633332	635999	Tune-up
Frequency(MHz)				3460	3499.98	3539.99	power(dB
20	QPSK	1	1	16.03	16.02	16.02	17.00
Channel				630500	633332	636166	Tune-up
Frequency(MHz)				3457.5	3499.98	3542.49	power(dB
15	QPSK	1	1	16.01	16.08	15.99	17.00
Channel				630333	633332	636332	Tune-up
Frequency(MHz)				3455	3499.98	3544.99	power(dB
10	QPSK	1	1	16.04	16.06	15.95	17.00

8.4.7 NR Band77 Output Power

N77-ANT6 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				633332			
Frequency(MHz)				3499.98			
100	PI/2 BPSK	1	1		16.06		17.00
		1	137		15.91		17.00
		1	271		16.03		17.00
		135	0		15.58		16.50
		135	69		15.96		17.00
		135	138		15.55		16.50
		270	0		15.37		16.50
		1	1		15.99		17.00
	QPSK	1	137		16.02		17.00
		1	271		15.90		17.00
		135	0		14.92		16.00
		135	69		15.88		17.00
		135	138		14.90		16.00
		270	0		15.02		16.00
	16QAM	1	1		16.05		17.00
	64QAM	1	1		14.68		15.50
Channel				633000	633332	633666	Tune-up
Frequency(MHz)				3495	3499.98	3504.99	power(dB
90	QPSK	1	1	16.00	16.05	15.98	17.00
Channel				632667	633332	633999	Tune-up
Frequency(MHz)				3490	3499.98	3509.99	power(dB
80	QPSK	1	1	15.96	16.03	15.88	17.00
Channel				632333	633332	634332	Tune-up
Frequency(MHz)				3485	3499.98	3514.99	power(dB
70	QPSK	1	1	15.92	15.93	15.94	17.00
Channel				632000	633332	634666	Tune-up
Frequency(MHz)				3480	3499.98	3519.99	power(dB
60	QPSK	1	1	15.89	16.03	15.83	17.00
Channel				631667	633332	634999	Tune-up
Frequency(MHz)				3475	3499.98	3524.99	power(dB
50	QPSK	1	1	15.87	16.04	15.85	17.00
Channel				631333	633332	635332	Tune-up
Frequency(MHz)				3470	3499.98	3529.99	power(dB
40	QPSK	1	1	15.89	16.02	15.86	17.00
Channel				631000	633332	635666	Tune-up
Frequency(MHz)				3465	3499.98	3534.99	power(dB
30	QPSK	1	1	15.93	15.95	15.92	17.00
Channel				630833	633332	635832	Tune-up
Frequency(MHz)				3462.5	3499.98	3537.49	power(dB
25	QPSK	1	1	15.87	15.97	15.96	17.00
Channel				630667	633332	635999	Tune-up
Frequency(MHz)				3460	3499.98	3539.99	power(dB
20	QPSK	1	1	15.86	16.00	15.88	17.00
Channel				630500	633332	636166	Tune-up
Frequency(MHz)				3457.5	3499.98	3542.49	power(dB
15	QPSK	1	1	15.96	15.94	15.86	17.00
Channel				630333	633332	636332	Tune-up
Frequency(MHz)				3455	3499.98	3544.99	power(dB
10	QPSK	1	1	15.90	15.98	15.88	17.00

8.4.7 NR Band77 Output Power

N77-ANT7 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				633332			
Frequency(MHz)				3499.98			
100	PI/2 BPSK	1	1				19.08
		1	137				20.00
		1	271				20.00
		135	0				19.50
		135	69				20.00
		135	138				19.50
		270	0				19.50
		1	1				20.00
	QPSK	1	137				20.00
		1	271				20.00
		135	0				19.00
		135	69				20.00
		135	138				19.00
		270	0				19.00
	16QAM	1	1				19.00
	64QAM	1	1				17.50
Channel				633000	633332	633666	Tune-up
Frequency(MHz)				3495	3499.98	3504.99	power(dB
90	QPSK	1	1	19.02	19.05	19.00	20.00
Channel				632667	633332	633999	Tune-up
Frequency(MHz)				3490	3499.98	3509.99	power(dB
80	QPSK	1	1	18.96	19.03	18.85	20.00
Channel				632333	633332	634332	Tune-up
Frequency(MHz)				3485	3499.98	3514.99	power(dB
70	QPSK	1	1	18.96	19.02	18.98	20.00
Channel				632000	633332	634666	Tune-up
Frequency(MHz)				3480	3499.98	3519.99	power(dB
60	QPSK	1	1	18.97	18.92	18.94	20.00
Channel				631667	633332	634999	Tune-up
Frequency(MHz)				3475	3499.98	3524.99	power(dB
50	QPSK	1	1	18.90	18.99	18.94	20.00
Channel				631333	633332	635332	Tune-up
Frequency(MHz)				3470	3499.98	3529.99	power(dB
40	QPSK	1	1	18.95	18.96	18.91	20.00
Channel				631000	633332	635666	Tune-up
Frequency(MHz)				3465	3499.98	3534.99	power(dB
30	QPSK	1	1	19.00	19.04	18.88	20.00
Channel				630833	633332	635832	Tune-up
Frequency(MHz)				3462.5	3499.98	3537.49	power(dB
25	QPSK	1	1	18.97	19.01	18.89	20.00
Channel				630667	633332	635999	Tune-up
Frequency(MHz)				3460	3499.98	3539.99	power(dB
20	QPSK	1	1	18.96	18.93	18.92	20.00
Channel				630500	633332	636166	Tune-up
Frequency(MHz)				3457.5	3499.98	3542.49	power(dB
15	QPSK	1	1	18.96	19.01	18.91	20.00
Channel				630333	633332	636332	Tune-up
Frequency(MHz)				3455	3499.98	3544.99	power(dB
10	QPSK	1	1	18.87	18.96	18.95	20.00

8.4.7 NR Band77 Output Power

N77-ANT7 Full power-ENDC							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				633332			
Frequency(MHz)				3499.98			
100	PI/2 BPSK	1	1		16.05		17.00
		1	137		15.97		17.00
		1	271		16.00		17.00
		135	0		15.55		16.50
		135	69		15.96		17.00
		135	138		15.45		16.50
		270	0		15.50		16.50
		1	1		16.00		17.00
	QPSK	1	137		16.00		17.00
		1	271		15.97		17.00
		135	0		14.96		16.00
		135	69		16.03		17.00
		135	138		15.00		16.00
		270	0		14.96		16.00
	16QAM	1	1		15.03		16.00
	64QAM	1	1		13.75		14.50
Channel				633000	633332	633666	Tune-up
Frequency(MHz)				3495	3499.98	3504.99	power(dB
90	QPSK	1	1	16.01	15.97	15.91	17.00
Channel				632667	633332	633999	Tune-up
Frequency(MHz)				3490	3499.98	3509.99	power(dB
80	QPSK	1	1	15.98	16.00	15.95	17.00
Channel				632333	633332	634332	Tune-up
Frequency(MHz)				3485	3499.98	3514.99	power(dB
70	QPSK	1	1	16.01	16.02	15.93	17.00
Channel				632000	633332	634666	Tune-up
Frequency(MHz)				3480	3499.98	3519.99	power(dB
60	QPSK	1	1	15.99	16.04	15.96	17.00
Channel				631667	633332	634999	Tune-up
Frequency(MHz)				3475	3499.98	3524.99	power(dB
50	QPSK	1	1	16.00	15.97	15.93	17.00
Channel				631333	633332	635332	Tune-up
Frequency(MHz)				3470	3499.98	3529.99	power(dB
40	QPSK	1	1	15.95	15.97	15.92	17.00
Channel				631000	633332	635666	Tune-up
Frequency(MHz)				3465	3499.98	3534.99	power(dB
30	QPSK	1	1	16.01	15.97	15.98	17.00
Channel				630833	633332	635832	Tune-up
Frequency(MHz)				3462.5	3499.98	3537.49	power(dB
25	QPSK	1	1	15.96	15.97	15.95	17.00
Channel				630667	633332	635999	Tune-up
Frequency(MHz)				3460	3499.98	3539.99	power(dB
20	QPSK	1	1	15.97	15.99	15.92	17.00
Channel				630500	633332	636166	Tune-up
Frequency(MHz)				3457.5	3499.98	3542.49	power(dB
15	QPSK	1	1	15.95	16.00	15.91	17.00
Channel				630333	633332	636332	Tune-up
Frequency(MHz)				3455	3499.98	3544.99	power(dB
10	QPSK	1	1	15.94	15.98	15.92	17.00

8.4.7 NR Band77 Output Power

N77-ANT0 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up power(dB m)
Channel				650000	656000	662000	
Frequency(MHz)				3750.00	3840.00	3930.00	
100	PI/2 BPSK	1	1	18.38	18.50	18.41	19.50
		1	137	18.43	18.46	18.43	19.50
		1	271	18.43	18.47	18.37	19.50
		135	0	17.89	17.93	17.82	19.00
		135	69	18.39	18.43	18.42	19.50
		135	138	18.05	18.14	18.05	19.00
		270	0	17.73	17.88	17.80	19.00
	QPSK	1	1	18.33	18.38	18.24	19.50
		1	137	18.43	18.45	18.32	19.50
		1	271	18.38	18.41	18.34	19.50
		135	0	17.39	17.41	17.27	18.50
		135	69	18.41	18.49	18.43	19.50
		135	138	17.34	17.35	17.23	18.50
		270	0	17.33	17.48	17.43	18.50
	16QAM	1	1	17.30	17.45	17.42	18.50
	64QAM	1	1	15.85	16.00	15.87	17.00
Channel				649668	656000	662332	Tune-up
Frequency(MHz)				3745	3840.00	3934.98	power(dB
90	QPSK	1	1	18.44	18.47	18.42	19.50
Channel				649334	656000	662666	Tune-up
Frequency(MHz)				3740	3840.00	3940.00	power(dB
80	QPSK	1	1	18.41	18.34	18.41	19.50
Channel				649000	656000	663000	Tune-up
Frequency(MHz)				3735	3840.00	3945.00	power(dB
70	QPSK	1	1	18.43	18.38	18.35	19.50
Channel				648667	656000	663333	Tune-up
Frequency(MHz)				3730	3840.00	3950.00	power(dB
60	QPSK	1	1	18.33	18.38	18.37	19.50
Channel				648334	656000	663667	Tune-up
Frequency(MHz)				3725	3840.00	3955.00	power(dB
50	QPSK	1	1	18.43	18.46	18.29	19.50
Channel				648000	656000	664000	Tune-up
Frequency(MHz)				3720	3840.00	3959.99	power(dB
40	QPSK	1	1	18.34	18.33	18.39	19.50
Channel				647667	656000	664333	Tune-up
Frequency(MHz)				3715	3840.00	3965.00	power(dB
30	QPSK	1	1	18.40	18.37	18.28	19.50
Channel				647500	656000	664500	Tune-up
Frequency(MHz)				3713	3840.00	3967.50	power(dB
25	QPSK	1	1	18.38	18.46	18.28	19.50
Channel				647333	656000	664666	Tune-up
Frequency(MHz)				3710	3840.00	3969.99	power(dB
20	QPSK	1	1	18.29	18.34	18.27	19.50
Channel				647167	656000	664833	Tune-up
Frequency(MHz)				3708	3840.00	3972.50	power(dB
15	QPSK	1	1	18.38	18.45	18.28	19.50
Channel				647000	655999	665000	Tune-up
Frequency(MHz)				3705	3839.99	3975.00	power(dB
10	QPSK	1	1	18.43	18.43	18.32	19.50

8.4.7 NR Band77 Output Power

N77-ANT0 Full power-ENDC							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up power(dB m)
Channel				650000	656000	662000	
Frequency(MHz)				3750.00	3840.00	3930.00	
100	PI/2 BPSK	1	1	15.35	15.46	15.35	16.50
		1	137	15.35	15.44	15.39	16.50
		1	271	15.40	15.43	15.29	16.50
		135	0	14.84	14.92	14.76	16.00
		135	69	15.35	15.41	15.33	16.50
		135	138	15.00	15.06	15.00	16.00
	QPSK	270	0	14.69	14.83	14.75	16.00
		1	1	15.32	15.37	15.22	16.50
		1	137	15.41	15.41	15.26	16.50
		1	271	15.31	15.38	15.31	16.50
		135	0	14.30	14.32	14.18	15.50
		135	69	15.33	15.42	15.42	16.50
		135	138	14.32	14.28	14.16	15.50
		270	0	14.32	14.41	14.35	15.50
	16QAM	1	1	14.28	14.38	14.40	15.50
	64QAM	1	1	12.76	12.97	12.78	14.00
Channel				649668	656000	662332	Tune-up
Frequency(MHz)				3745	3840.00	3934.98	power(dB
90	QPSK	1	1	15.36	15.43	15.34	16.50
Channel				649334	656000	662666	Tune-up
Frequency(MHz)				3740	3840.00	3940.00	power(dB
80	QPSK	1	1	15.31	15.46	15.38	16.50
Channel				649000	656000	663000	Tune-up
Frequency(MHz)				3735	3840.00	3945.00	power(dB
70	QPSK	1	1	15.30	15.44	15.34	16.50
Channel				648667	656000	663333	Tune-up
Frequency(MHz)				3730	3840.00	3950.00	power(dB
60	QPSK	1	1	15.35	15.41	15.39	16.50
Channel				648334	656000	663667	Tune-up
Frequency(MHz)				3725	3840.00	3955.00	power(dB
50	QPSK	1	1	15.31	15.48	15.39	16.50
Channel				648000	656000	664000	Tune-up
Frequency(MHz)				3720	3840.00	3959.99	power(dB
40	QPSK	1	1	15.35	15.42	15.33	16.50
Channel				647667	656000	664333	Tune-up
Frequency(MHz)				3715	3840.00	3965.00	power(dB
30	QPSK	1	1	15.36	15.44	15.32	16.50
Channel				647500	656000	664500	Tune-up
Frequency(MHz)				3713	3840.00	3967.50	power(dB
25	QPSK	1	1	15.35	15.48	15.32	16.50
Channel				647333	656000	664666	Tune-up
Frequency(MHz)				3710	3840.00	3969.99	power(dB
20	QPSK	1	1	15.29	15.44	15.34	16.50
Channel				647167	656000	664833	Tune-up
Frequency(MHz)				3708	3840.00	3972.50	power(dB
15	QPSK	1	1	15.37	15.41	15.37	16.50
Channel				647000	655999	665000	Tune-up
Frequency(MHz)				3705	3839.99	3975.00	power(dB
10	QPSK	1	1	15.37	15.43	15.36	16.50

8.4.7 NR Band77 Output Power

N77-ANT5 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up power(dB m)
Channel				650000	656000	662000	
Frequency(MHz)				3750.00	3840.00	3930.00	
100	PI/2 BPSK	1	1	14.93	15.03	14.88	16.00
		1	137	14.82	14.97	14.95	16.00
		1	271	14.93	14.94	14.83	16.00
		135	0	14.58	14.60	14.51	15.50
		135	69	14.83	14.91	14.90	16.00
		135	138	14.43	14.49	14.38	15.50
	QPSK	270	0	14.29	14.40	14.26	15.50
		1	1	14.93	14.98	14.86	16.00
		1	137	14.89	15.02	14.93	16.00
		1	271	14.84	14.97	14.94	16.00
		135	0	13.90	13.91	13.86	15.00
		135	69	14.89	14.97	14.91	16.00
		135	138	13.84	13.96	13.82	15.00
		270	0	13.79	13.93	13.78	15.00
	16QAM	1	1	14.67	14.70	14.59	15.50
	64QAM	1	1	13.43	13.50	13.38	14.50
Channel				649668	656000	662332	Tune-up
Frequency(MHz)				3745.02	3840.00	3934.98	power(dB
90	QPSK	1	1	14.98	15.02	14.94	16.00
Channel				649334	656000	662666	Tune-up
Frequency(MHz)				3740.01	3840.00	3940.00	power(dB
80	QPSK	1	1	14.85	14.99	14.93	16.00
Channel				649000	656000	663000	Tune-up
Frequency(MHz)				3735.00	3840.00	3945.00	power(dB
70	QPSK	1	1	14.83	14.91	14.89	16.00
Channel				648667	656000	663333	Tune-up
Frequency(MHz)				3730.01	3840.00	3950.00	power(dB
60	QPSK	1	1	14.96	14.90	14.85	16.00
Channel				648334	656000	663667	Tune-up
Frequency(MHz)				3725.00	3840.00	3955.00	power(dB
50	QPSK	1	1	14.97	15.00	14.90	16.00
Channel				648000	656000	664000	Tune-up
Frequency(MHz)				3720.00	3840.00	3959.99	power(dB
40	QPSK	1	1	14.88	14.91	14.81	16.00
Channel				647667	656000	664333	Tune-up
Frequency(MHz)				3715.01	3840.00	3965.00	power(dB
30	QPSK	1	1	14.97	14.89	14.88	16.00
Channel				647500	656000	664500	Tune-up
Frequency(MHz)				3712.50	3840.00	3967.50	power(dB
25	QPSK	1	1	14.95	14.94	14.87	16.00
Channel				647333	656000	664666	Tune-up
Frequency(MHz)				3710.00	3840.00	3969.99	power(dB
20	QPSK	1	1	14.97	15.01	14.85	16.00
Channel				647167	656000	664833	Tune-up
Frequency(MHz)				3707.51	3840.00	3972.50	power(dB
15	QPSK	1	1	14.96	14.92	14.92	16.00
Channel				647000	655999	665000	Tune-up
Frequency(MHz)				3705.01	3839.99	3975.00	power(dB
10	QPSK	1	1	14.95	14.87	14.79	16.00

8.4.7 NR Band77 Output Power

N77-ANT6 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up power(dB m)
Channel				650000	656000	662000	
Frequency(MHz)				3750.00	3840.00	3930.00	
100	PI/2 BPSK	1	1	15.11	15.28	15.09	16.00
		1	137	15.04	15.11	15.17	16.00
		1	271	15.07	15.10	14.94	16.00
		135	0	14.71	14.81	14.74	15.50
		135	69	15.02	15.12	15.11	16.00
		135	138	14.54	14.62	14.62	15.50
	QPSK	270	0	14.50	14.55	14.47	15.50
		1	1	15.18	15.10	15.02	16.00
		1	137	15.14	15.27	15.09	16.00
		1	271	15.02	15.21	15.18	16.00
		135	0	14.09	14.09	14.08	15.00
		135	69	15.10	15.09	15.13	16.00
		135	138	14.07	14.20	14.02	15.00
		270	0	13.91	14.05	14.00	15.00
	16QAM	1	1	14.87	14.83	14.71	15.50
	64QAM	1	1	13.61	13.69	13.49	14.50
Channel				649668	656000	662332	Tune-up
Frequency(MHz)				3745.02	3840.00	3934.98	power(dB
90	QPSK	1	1	15.21	15.24	15.18	16.00
Channel				649334	656000	662666	Tune-up
Frequency(MHz)				3740.01	3840.00	3940.00	power(dB
80	QPSK	1	1	15.16	15.22	15.10	16.00
Channel				649000	656000	663000	Tune-up
Frequency(MHz)				3735.00	3840.00	3945.00	power(dB
70	QPSK	1	1	15.18	15.11	15.14	16.00
Channel				648667	656000	663333	Tune-up
Frequency(MHz)				3730.01	3840.00	3950.00	power(dB
60	QPSK	1	1	15.06	15.11	15.11	16.00
Channel				648334	656000	663667	Tune-up
Frequency(MHz)				3725.00	3840.00	3955.00	power(dB
50	QPSK	1	1	15.07	15.14	15.03	16.00
Channel				648000	656000	664000	Tune-up
Frequency(MHz)				3720.00	3840.00	3959.99	power(dB
40	QPSK	1	1	15.06	15.10	15.10	16.00
Channel				647667	656000	664333	Tune-up
Frequency(MHz)				3715.01	3840.00	3965.00	power(dB
30	QPSK	1	1	15.07	15.20	15.16	16.00
Channel				647500	656000	664500	Tune-up
Frequency(MHz)				3712.50	3840.00	3967.50	power(dB
25	QPSK	1	1	15.17	15.10	15.08	16.00
Channel				647333	656000	664666	Tune-up
Frequency(MHz)				3710.00	3840.00	3969.99	power(dB
20	QPSK	1	1	15.10	15.23	15.17	16.00
Channel				647167	656000	664833	Tune-up
Frequency(MHz)				3707.51	3840.00	3972.50	power(dB
15	QPSK	1	1	15.10	15.17	15.12	16.00
Channel				647000	655999	665000	Tune-up
Frequency(MHz)				3705.01	3839.99	3975.00	power(dB
10	QPSK	1	1	15.15	15.16	15.11	16.00

8.4.7 NR Band77 Output Power

N77-ANT7 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up power(dB m)
Channel				650000	656000	662000	
Frequency(MHz)				3750.00	3840.00	3930.00	
100	PI/2 BPSK	1	1	18.18	18.19	18.12	19.00
		1	137	17.97	18.09	17.98	19.00
		1	271	17.94	18.08	17.94	19.00
		135	0	17.51	17.59	17.50	18.50
		135	69	17.95	18.04	17.92	19.00
		135	138	17.58	17.60	17.51	18.50
	QPSK	270	0	17.65	17.66	17.65	18.50
		1	1	18.01	18.07	17.99	19.00
		1	137	17.97	18.06	17.99	19.00
		1	271	18.00	18.08	17.98	19.00
		135	0	16.99	17.14	17.05	18.00
		135	69	18.10	18.11	18.05	19.00
		135	138	16.98	17.13	17.10	18.00
		270	0	16.90	17.05	17.00	18.00
	16QAM	1	1	17.06	17.09	17.06	18.00
	64QAM	1	1	15.57	15.66	15.61	16.50
Channel				649668	656000	662332	Tune-up
Frequency(MHz)				3745.02	3840.00	3934.98	power(dB
90	QPSK	1	1	18.10	18.15	18.11	19.00
Channel				649334	656000	662666	Tune-up
Frequency(MHz)				3740.01	3840.00	3940.00	power(dB
80	QPSK	1	1	17.98	18.14	17.96	19.00
Channel				649000	656000	663000	Tune-up
Frequency(MHz)				3735.00	3840.00	3945.00	power(dB
70	QPSK	1	1	17.95	18.01	17.98	19.00
Channel				648667	656000	663333	Tune-up
Frequency(MHz)				3730.01	3840.00	3950.00	power(dB
60	QPSK	1	1	17.98	18.14	17.96	19.00
Channel				648334	656000	663667	Tune-up
Frequency(MHz)				3725.00	3840.00	3955.00	power(dB
50	QPSK	1	1	18.02	18.08	18.00	19.00
Channel				648000	656000	664000	Tune-up
Frequency(MHz)				3720.00	3840.00	3959.99	power(dB
40	QPSK	1	1	18.08	18.05	18.00	19.00
Channel				647667	656000	664333	Tune-up
Frequency(MHz)				3715.01	3840.00	3965.00	power(dB
30	QPSK	1	1	18.03	18.14	18.07	19.00
Channel				647500	656000	664500	Tune-up
Frequency(MHz)				3712.50	3840.00	3967.50	power(dB
25	QPSK	1	1	18.05	18.04	18.00	19.00
Channel				647333	656000	664666	Tune-up
Frequency(MHz)				3710.00	3840.00	3969.99	power(dB
20	QPSK	1	1	17.99	18.08	18.00	19.00
Channel				647167	656000	664833	Tune-up
Frequency(MHz)				3707.51	3840.00	3972.50	power(dB
15	QPSK	1	1	18.06	18.05	17.96	19.00
Channel				647000	655999	665000	Tune-up
Frequency(MHz)				3705.01	3839.99	3975.00	power(dB
10	QPSK	1	1	18.06	18.02	18.00	19.00

8.4.7 NR Band77 Output Power

N77-ANT7 Full power-ENDC							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up power(dB m)
Channel				650000	656000	662000	
Frequency(MHz)				3750.00	3840.00	3930.00	
100	PI/2 BPSK	1	1	15.10	15.13	15.07	16.00
		1	137	14.94	15.08	14.97	16.00
		1	271	14.90	15.07	14.87	16.00
		135	0	14.45	14.58	14.47	15.50
		135	69	14.87	15.03	14.87	16.00
		135	138	14.56	14.59	14.45	15.50
	QPSK	270	0	14.58	14.64	14.60	15.50
		1	1	14.92	15.02	14.97	16.00
		1	137	14.94	15.01	14.96	16.00
		1	271	14.97	15.05	14.94	16.00
		135	0	13.97	14.11	14.04	15.00
		135	69	15.02	15.02	14.99	16.00
		135	138	13.94	14.08	14.09	15.00
		270	0	13.81	13.97	13.98	15.00
	16QAM	1	1	14.01	14.04	14.01	15.00
	64QAM	1	1	12.52	12.62	12.59	13.50
Channel				649668	656000	662332	Tune-up
Frequency(MHz)				3745.02	3840.00	3934.98	power(dB
90	QPSK	1	1	15.03	15.05	15.03	16.00
Channel				649334	656000	662666	Tune-up
Frequency(MHz)				3740.01	3840.00	3940.00	power(dB
80	QPSK	1	1	15.09	15.06	15.01	16.00
Channel				649000	656000	663000	Tune-up
Frequency(MHz)				3735.00	3840.00	3945.00	power(dB
70	QPSK	1	1	15.07	15.06	15.04	16.00
Channel				648667	656000	663333	Tune-up
Frequency(MHz)				3730.01	3840.00	3950.00	power(dB
60	QPSK	1	1	15.07	15.06	14.99	16.00
Channel				648334	656000	663667	Tune-up
Frequency(MHz)				3725.00	3840.00	3955.00	power(dB
50	QPSK	1	1	15.05	15.04	15.04	16.00
Channel				648000	656000	664000	Tune-up
Frequency(MHz)				3720.00	3840.00	3959.99	power(dB
40	QPSK	1	1	15.09	15.07	15.03	16.00
Channel				647667	656000	664333	Tune-up
Frequency(MHz)				3715.01	3840.00	3965.00	power(dB
30	QPSK	1	1	15.05	15.12	15.04	16.00
Channel				647500	656000	664500	Tune-up
Frequency(MHz)				3712.50	3840.00	3967.50	power(dB
25	QPSK	1	1	15.03	15.12	15.03	16.00
Channel				647333	656000	664666	Tune-up
Frequency(MHz)				3710.00	3840.00	3969.99	power(dB
20	QPSK	1	1	15.07	15.07	15.04	16.00
Channel				647167	656000	664833	Tune-up
Frequency(MHz)				3707.51	3840.00	3972.50	power(dB
15	QPSK	1	1	15.03	15.07	15.01	16.00
Channel				647000	655999	665000	Tune-up
Frequency(MHz)				3705.01	3839.99	3975.00	power(dB
10	QPSK	1	1	15.04	15.09	15.03	16.00

8.4.8 NR Band78 Output Power

N78-ANT0 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				633332			
Frequency(MHz)				3499.99			
100	PI/2 BPSK	1	1		16.89		18.00
		1	137		16.75		18.00
		1	271		16.86		18.00
		135	0		16.37		17.50
		135	69		16.76		18.00
		135	138		16.25		17.50
		270	0		16.29		17.50
	QPSK	1	1		16.88		18.00
		1	137		16.77		18.00
		1	271		16.80		18.00
		135	0		16.34		17.00
		135	69		16.75		18.00
		135	138		16.35		17.00
		270	0		16.32		17.00
	16QAM	1	1		15.90		17.00
	64QAM	1	1		14.57		15.50
Channel				633000	633330	633666	Tune-up
Frequency(MHz)				3495	3499.95	3504.99	power(dB
90	QPSK	1	1	16.81	16.88	16.82	18.00
Channel				632668	633330	634000	Tune-up
Frequency(MHz)				3490	3499.95	3510.00	power(dB
80	QPSK	1	1	16.68	16.79	16.77	18.00
Channel				632334	633330	634332	Tune-up
Frequency(MHz)				3485	3499.95	3514.98	power(dB
70	QPSK	1	1	16.75	16.82	16.79	18.00
Channel				632000	633330	634666	Tune-up
Frequency(MHz)				3480	3499.95	3519.99	power(dB
60	QPSK	1	1	16.73	16.87	16.81	18.00
Channel				631668	633330	635000	Tune-up
Frequency(MHz)				3475	3499.95	3525.00	power(dB
50	QPSK	1	1	16.77	16.85	16.68	18.00
Channel				631334	633330	635332	Tune-up
Frequency(MHz)				3470	3499.95	3529.98	power(dB
40	QPSK	1	1	16.75	16.77	16.76	18.00
Channel				631000	633330	635666	Tune-up
Frequency(MHz)				3465	3499.95	3534.99	power(dB
30	QPSK	1	1	16.77	16.81	16.72	18.00
Channel				630834	633330	635832	Tune-up
Frequency(MHz)				3463	3499.95	3537.48	power(dB
25	QPSK	1	1	16.78	16.79	16.74	18.00
Channel				630668	633330	636000	Tune-up
Frequency(MHz)				3460	3499.95	3540.00	power(dB
20	QPSK	1	1	16.71	16.79	16.70	18.00
Channel				630500	633330	636166	Tune-up
Frequency(MHz)				3458	3499.95	3542.49	power(dB
15	QPSK	1	1	16.76	16.75	16.68	18.00
Channel				630334	633330	636332	Tune-up
Frequency(MHz)				3455	3499.95	3544.98	power(dB
10	QPSK	1	1	16.68	16.83	16.71	18.00

8.4.8 NR Band78 Output Power

N78-ANT0 Full power-ENDC							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				633332			15.00
Frequency(MHz)				3499.99			
100	PI/2 BPSK	1	1		16.89		15.00
		1	137		16.75		15.00
		1	271		16.86		15.00
		135	0		16.37		14.50
		135	69		16.76		15.00
		135	138		16.25		14.50
	QPSK	270	0		16.29		14.50
		1	1		16.88		15.00
		1	137		16.77		15.00
		1	271		16.80		15.00
		135	0		16.34		14.00
		135	69		16.75		15.00
		135	138		16.35		14.00
		270	0		16.32		14.00
	16QAM	1	1		15.90		14.00
	64QAM	1	1		14.57		12.50
Channel				633000	633330	633666	Tune-up
Frequency(MHz)				3495	3499.95	3504.99	power(dB
90	QPSK	1	1	16.81	16.88	16.82	18.00
Channel				632668	633330	634000	Tune-up
Frequency(MHz)				3490	3499.95	3510.00	power(dB
80	QPSK	1	1	16.68	16.79	16.77	18.00
Channel				632334	633330	634332	Tune-up
Frequency(MHz)				3485	3499.95	3514.98	power(dB
70	QPSK	1	1	16.75	16.82	16.79	18.00
Channel				632000	633330	634666	Tune-up
Frequency(MHz)				3480	3499.95	3519.99	power(dB
60	QPSK	1	1	16.73	16.87	16.81	18.00
Channel				631668	633330	635000	Tune-up
Frequency(MHz)				3475	3499.95	3525.00	power(dB
50	QPSK	1	1	16.77	16.85	16.68	18.00
Channel				631334	633330	635332	Tune-up
Frequency(MHz)				3470	3499.95	3529.98	power(dB
40	QPSK	1	1	16.75	16.77	16.76	18.00
Channel				631000	633330	635666	Tune-up
Frequency(MHz)				3465	3499.95	3534.99	power(dB
30	QPSK	1	1	16.77	16.81	16.72	18.00
Channel				630834	633330	635832	Tune-up
Frequency(MHz)				3463	3499.95	3537.48	power(dB
25	QPSK	1	1	16.78	16.79	16.74	18.00
Channel				630668	633330	636000	Tune-up
Frequency(MHz)				3460	3499.95	3540.00	power(dB
20	QPSK	1	1	16.71	16.79	16.70	18.00
Channel				630500	633330	636166	Tune-up
Frequency(MHz)				3458	3499.95	3542.49	power(dB
15	QPSK	1	1	16.76	16.75	16.68	18.00
Channel				630334	633330	636332	Tune-up
Frequency(MHz)				3455	3499.95	3544.98	power(dB
10	QPSK	1	1	16.68	16.83	16.71	18.00

8.4.8 NR Band78 Output Power

N78-ANT5 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				633332			
Frequency(MHz)				3499.99			
100	PI/2 BPSK	1	1		16.99		18.00
		1	137		16.83		18.00
		1	271		16.85		18.00
		135	0		16.32		17.50
		135	69		16.77		18.00
		135	138		16.28		17.50
		270	0		16.25		17.50
	QPSK	1	1		16.96		18.00
		1	137		16.72		18.00
		1	271		16.85		18.00
		135	0		16.37		17.00
		135	69		16.74		18.00
		135	138		16.43		17.00
		270	0		16.36		17.00
	16QAM	1	1		15.88		17.00
	64QAM	1	1		14.63		15.50
Channel				633000	633330	633666	Tune-up
Frequency(MHz)				3495	3499.95	3504.99	power(dB
90	QPSK	1	1	16.74	16.73	16.81	18.00
Channel				632668	633330	634000	Tune-up
Frequency(MHz)				3490	3499.95	3510.00	power(dB
80	QPSK	1	1	16.68	16.87	16.73	18.00
Channel				632334	633330	634332	Tune-up
Frequency(MHz)				3485	3499.95	3514.98	power(dB
70	QPSK	1	1	16.71	16.80	16.77	18.00
Channel				632000	633330	634666	Tune-up
Frequency(MHz)				3480	3499.95	3519.99	power(dB
60	QPSK	1	1	16.66	16.80	16.78	18.00
Channel				631668	633330	635000	Tune-up
Frequency(MHz)				3475	3499.95	3525.00	power(dB
50	QPSK	1	1	16.73	16.81	16.69	18.00
Channel				631334	633330	635332	Tune-up
Frequency(MHz)				3470	3499.95	3529.98	power(dB
40	QPSK	1	1	16.72	16.86	16.76	18.00
Channel				631000	633330	635666	Tune-up
Frequency(MHz)				3465	3499.95	3534.99	power(dB
30	QPSK	1	1	16.67	16.81	16.71	18.00
Channel				630834	633330	635832	Tune-up
Frequency(MHz)				3463	3499.95	3537.48	power(dB
25	QPSK	1	1	16.67	16.83	16.77	18.00
Channel				630668	633330	636000	Tune-up
Frequency(MHz)				3460	3499.95	3540.00	power(dB
20	QPSK	1	1	16.70	16.87	16.77	18.00
Channel				630500	633330	636166	Tune-up
Frequency(MHz)				3458	3499.95	3542.49	power(dB
15	QPSK	1	1	16.75	16.82	16.76	18.00
Channel				630334	633330	636332	Tune-up
Frequency(MHz)				3455	3499.95	3544.98	power(dB
10	QPSK	1	1	16.78	16.75	16.67	18.00

8.4.8 NR Band78 Output Power

N78-ANT6 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				633332			
Frequency(MHz)				3499.99			
100	PI/2 BPSK	1	1		16.94		18.00
		1	137		16.79		18.00
		1	271		16.91		18.00
		135	0		16.48		17.50
		135	69		16.77		18.00
		135	138		16.33		17.50
	QPSK	270	0		16.38		17.50
		1	1		16.90		18.00
		1	137		16.80		18.00
		1	271		16.89		18.00
		135	0		16.33		17.00
		135	69		16.79		18.00
		135	138		16.35		17.00
		270	0		16.40		17.00
	16QAM	1	1		15.95		17.00
	64QAM	1	1		14.59		15.50
Channel				633000	633330	633666	Tune-up
Frequency(MHz)				3495	3499.95	3504.99	power(dB
90	QPSK	1	1	16.86	16.87	16.83	18.00
Channel				632668	633330	634000	Tune-up
Frequency(MHz)				3490	3499.95	3510.00	power(dB
80	QPSK	1	1	16.82	16.74	16.78	18.00
Channel				632334	633330	634332	Tune-up
Frequency(MHz)				3485	3499.95	3514.98	power(dB
70	QPSK	1	1	16.79	16.83	16.71	18.00
Channel				632000	633330	634666	Tune-up
Frequency(MHz)				3480	3499.95	3519.99	power(dB
60	QPSK	1	1	16.72	16.78	16.77	18.00
Channel				631668	633330	635000	Tune-up
Frequency(MHz)				3475	3499.95	3525.00	power(dB
50	QPSK	1	1	16.81	16.81	16.77	18.00
Channel				631334	633330	635332	Tune-up
Frequency(MHz)				3470	3499.95	3529.98	power(dB
40	QPSK	1	1	16.78	16.84	16.77	18.00
Channel				631000	633330	635666	Tune-up
Frequency(MHz)				3465	3499.95	3534.99	power(dB
30	QPSK	1	1	16.72	16.84	16.81	18.00
Channel				630834	633330	635832	Tune-up
Frequency(MHz)				3463	3499.95	3537.48	power(dB
25	QPSK	1	1	16.71	16.74	16.71	18.00
Channel				630668	633330	636000	Tune-up
Frequency(MHz)				3460	3499.95	3540.00	power(dB
20	QPSK	1	1	16.81	16.77	16.69	18.00
Channel				630500	633330	636166	Tune-up
Frequency(MHz)				3458	3499.95	3542.49	power(dB
15	QPSK	1	1	16.75	16.73	16.73	18.00
Channel				630334	633330	636332	Tune-up
Frequency(MHz)				3455	3499.95	3544.98	power(dB
10	QPSK	1	1	16.77	16.72	16.79	18.00

8.4.8 NR Band78 Output Power

N78-ANT7 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				633332			
Frequency(MHz)				3499.99			
100	PI/2 BPSK	1	1		17.00		18.00
		1	137		16.76		18.00
		1	271		16.93		18.00
		135	0		16.49		17.50
		135	69		16.77		18.00
		135	138		16.32		17.50
	QPSK	270	0		16.40		17.50
		1	1		16.88		18.00
		1	137		16.78		18.00
		1	271		16.79		18.00
		135	0		16.36		17.00
		135	69		16.84		18.00
		135	138		16.46		17.00
		270	0		16.41		17.00
	16QAM	1	1		15.90		17.00
	64QAM	1	1		14.70		15.50
Channel				633000	633330	633666	Tune-up
Frequency(MHz)				3495	3499.95	3504.99	power(dB
90	QPSK	1	1	16.94	16.97	16.89	18.00
Channel				632668	633330	634000	Tune-up
Frequency(MHz)				3490	3499.95	3510.00	power(dB
80	QPSK	1	1	16.82	16.88	16.78	18.00
Channel				632334	633330	634332	Tune-up
Frequency(MHz)				3485	3499.95	3514.98	power(dB
70	QPSK	1	1	16.79	16.95	16.79	18.00
Channel				632000	633330	634666	Tune-up
Frequency(MHz)				3480	3499.95	3519.99	power(dB
60	QPSK	1	1	16.91	16.85	16.80	18.00
Channel				631668	633330	635000	Tune-up
Frequency(MHz)				3475	3499.95	3525.00	power(dB
50	QPSK	1	1	16.79	16.83	16.84	18.00
Channel				631334	633330	635332	Tune-up
Frequency(MHz)				3470	3499.95	3529.98	power(dB
40	QPSK	1	1	16.84	16.91	16.77	18.00
Channel				631000	633330	635666	Tune-up
Frequency(MHz)				3465	3499.95	3534.99	power(dB
30	QPSK	1	1	16.93	16.93	16.78	18.00
Channel				630834	633330	635832	Tune-up
Frequency(MHz)				3463	3499.95	3537.48	power(dB
25	QPSK	1	1	16.88	16.90	16.83	18.00
Channel				630668	633330	636000	Tune-up
Frequency(MHz)				3460	3499.95	3540.00	power(dB
20	QPSK	1	1	16.80	16.93	16.80	18.00
Channel				630500	633330	636166	Tune-up
Frequency(MHz)				3458	3499.95	3542.49	power(dB
15	QPSK	1	1	16.86	16.92	16.78	18.00
Channel				630334	633330	636332	Tune-up
Frequency(MHz)				3455	3499.95	3544.98	power(dB
10	QPSK	1	1	16.91	16.95	16.82	18.00

8.4.8 NR Band78 Output Power

N78-ANT7 Full power-ENDC							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				633332			
Frequency(MHz)				3499.99			
100	PI/2 BPSK	1	1		13.93		15.00
		1	137		13.71		15.00
		1	271		13.89		15.00
		135	0		13.40		14.50
		135	69		13.73		15.00
		135	138		13.28		14.50
	QPSK	270	0		13.32		14.50
		1	1		13.80		15.00
		1	137		13.72		15.00
		1	271		13.74		15.00
		135	0		13.27		14.00
		135	69		13.79		15.00
		135	138		13.38		14.00
		270	0		13.39		14.00
	16QAM	1	1		12.85		14.00
	64QAM	1	1		11.61		12.50
Channel			633000	633330	633666	Tune-up	
Frequency(MHz)			3495	3499.95	3504.99	power(dB	
90	QPSK	1	1	13.86	13.97	13.91	15.00
Channel			632668	633330	634000	Tune-up	
Frequency(MHz)			3490	3499.95	3510.00	power(dB	
80	QPSK	1	1	13.82	13.91	13.82	15.00
Channel			632334	633330	634332	Tune-up	
Frequency(MHz)			3485	3499.95	3514.98	power(dB	
70	QPSK	1	1	13.79	13.95	13.84	15.00
Channel			632000	633330	634666	Tune-up	
Frequency(MHz)			3480	3499.95	3519.99	power(dB	
60	QPSK	1	1	13.80	13.88	13.82	15.00
Channel			631668	633330	635000	Tune-up	
Frequency(MHz)			3475	3499.95	3525.00	power(dB	
50	QPSK	1	1	13.80	13.90	13.83	15.00
Channel			631334	633330	635332	Tune-up	
Frequency(MHz)			3470	3499.95	3529.98	power(dB	
40	QPSK	1	1	13.80	13.90	13.86	15.00
Channel			631000	633330	635666	Tune-up	
Frequency(MHz)			3465	3499.95	3534.99	power(dB	
30	QPSK	1	1	13.84	13.88	13.89	15.00
Channel			630834	633330	635832	Tune-up	
Frequency(MHz)			3463	3499.95	3537.48	power(dB	
25	QPSK	1	1	13.84	13.88	13.85	15.00
Channel			630668	633330	636000	Tune-up	
Frequency(MHz)			3460	3499.95	3540.00	power(dB	
20	QPSK	1	1	13.81	13.90	13.82	15.00
Channel			630500	633330	636166	Tune-up	
Frequency(MHz)			3458	3499.95	3542.49	power(dB	
15	QPSK	1	1	13.80	13.92	13.88	15.00
Channel			630334	633330	636332	Tune-up	
Frequency(MHz)			3455	3499.95	3544.98	power(dB	
10	QPSK	1	1	13.79	13.95	13.84	15.00

8.4.8 NR Band78 Output Power

N78-ANT0 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				650000			
Frequency(MHz)				3750			
100	PI/2 BPSK	1	1				17.50
		1	137				17.50
		1	271				17.50
		135	0				17.00
		135	69				17.50
		135	138				17.00
		270	0				17.00
	QPSK	1	1				17.50
		1	137				17.50
		1	271				17.50
		135	0				16.50
		135	69				17.50
		135	138				16.50
		270	0				16.50
	16QAM	1	1				16.50
	64QAM	1	1				15.00
Channel				649668	650000	650332	Tune-up
Frequency(MHz)				3745	3750.00	3754.98	power(dB
90	QPSK	1	1	16.41	16.44	16.40	17.50
Channel				649334	650000	650666	Tune-up
Frequency(MHz)				3740	3750.00	3759.99	power(dB
80	QPSK	1	1	16.29	16.39	16.28	17.50
Channel				649000	650000	651000	Tune-up
Frequency(MHz)				3735	3750.00	3765.00	power(dB
70	QPSK	1	1	16.37	16.35	16.37	17.50
Channel				648668	650000	651332	Tune-up
Frequency(MHz)				3730	3750.00	3769.98	power(dB
60	QPSK	1	1	16.36	16.38	16.26	17.50
Channel				648334	650000	651666	Tune-up
Frequency(MHz)				3725	3750.00	3774.99	power(dB
50	QPSK	1	1	16.39	16.32	16.26	17.50
Channel				648000	650000	652000	Tune-up
Frequency(MHz)				3720	3750.00	3780.00	power(dB
40	QPSK	1	1	16.28	16.33	16.30	17.50
Channel				647668	650000	652332	Tune-up
Frequency(MHz)				3715	3750.00	3784.98	power(dB
30	QPSK	1	1	16.39	16.32	16.29	17.50
Channel				647500	650000	652500	Tune-up
Frequency(MHz)				3713	3750.00	3787.50	power(dB
25	QPSK	1	1	16.38	16.40	16.34	17.50
Channel				647334	650000	652666	Tune-up
Frequency(MHz)				3710	3750.00	3789.99	power(dB
20	QPSK	1	1	16.26	16.33	16.28	17.50
Channel				647168	650000	652832	Tune-up
Frequency(MHz)				3708	3750.00	3792.48	power(dB
15	QPSK	1	1	16.27	16.43	16.32	17.50
Channel				647000	650000	653000	Tune-up
Frequency(MHz)				3705	3750.00	3795.00	power(dB
10	QPSK	1	1	16.35	16.30	16.31	17.50

8.4.8 NR Band78 Output Power

N78-ANT5 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				650000			
Frequency(MHz)				3750			
100	PI/2 BPSK	1	1		15.83		17.00
		1	137		15.76		17.00
		1	271		15.82		17.00
		135	0		15.22		16.50
		135	69		15.78		17.00
		135	138		15.28		16.50
	QPSK	270	0		15.20		16.50
		1	1		15.81		17.00
		1	137		15.77		17.00
		1	271		15.75		17.00
		135	0		14.82		16.00
		135	69		15.69		17.00
		135	138		14.73		16.00
		270	0		14.81		16.00
	16QAM	1	1		14.89		16.00
	64QAM	1	1		13.42		14.50
Channel			649668	650000	650332	Tune-up	
Frequency(MHz)			3745	3750.00	3754.98	power(dB	
90	QPSK	1	1	15.78	15.80	15.77	17.00
Channel			649334	650000	650666	Tune-up	
Frequency(MHz)			3740	3750.00	3759.99	power(dB	
80	QPSK	1	1	15.70	15.77	15.65	17.00
Channel			649000	650000	651000	Tune-up	
Frequency(MHz)			3735	3750.00	3765.00	power(dB	
70	QPSK	1	1	15.68	15.76	15.63	17.00
Channel			648668	650000	651332	Tune-up	
Frequency(MHz)			3730	3750.00	3769.98	power(dB	
60	QPSK	1	1	15.69	15.71	15.74	17.00
Channel			648334	650000	651666	Tune-up	
Frequency(MHz)			3725	3750.00	3774.99	power(dB	
50	QPSK	1	1	15.65	15.70	15.65	17.00
Channel			648000	650000	652000	Tune-up	
Frequency(MHz)			3720	3750.00	3780.00	power(dB	
40	QPSK	1	1	15.76	15.75	15.70	17.00
Channel			647668	650000	652332	Tune-up	
Frequency(MHz)			3715	3750.00	3784.98	power(dB	
30	QPSK	1	1	15.68	15.77	15.75	17.00
Channel			647500	650000	652500	Tune-up	
Frequency(MHz)			3713	3750.00	3787.50	power(dB	
25	QPSK	1	1	15.72	15.69	15.73	17.00
Channel			647334	650000	652666	Tune-up	
Frequency(MHz)			3710	3750.00	3789.99	power(dB	
20	QPSK	1	1	15.64	15.74	15.68	17.00
Channel			647168	650000	652832	Tune-up	
Frequency(MHz)			3708	3750.00	3792.48	power(dB	
15	QPSK	1	1	15.67	15.71	15.63	17.00
Channel			647000	650000	653000	Tune-up	
Frequency(MHz)			3705	3750.00	3795.00	power(dB	
10	QPSK	1	1	15.73	15.66	15.73	17.00

8.4.8 NR Band78 Output Power

N78-ANT6 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				650000			
Frequency(MHz)				3750			
100	PI/2 BPSK	1	1		16.06		17.00
		1	137		16.01		17.00
		1	271		16.03		17.00
		135	0		15.43		16.50
		135	69		16.00		17.00
		135	138		15.55		16.50
		270	0		15.49		16.50
	QPSK	1	1		16.02		17.00
		1	137		15.97		17.00
		1	271		15.98		17.00
		135	0		15.04		16.00
		135	69		16.05		17.00
		135	138		14.97		16.00
		270	0		15.04		16.00
	16QAM	1	1		15.28		16.00
	64QAM	1	1		13.84		14.50
Channel				649668	650000	650332	Tune-up
Frequency(MHz)				3745	3750.00	3754.98	power(dB
90	QPSK	1	1	15.99	16.04	15.97	17.00
Channel				649334	650000	650666	Tune-up
Frequency(MHz)				3740	3750.00	3759.99	power(dB
80	QPSK	1	1	15.98	15.89	15.87	17.00
Channel				649000	650000	651000	Tune-up
Frequency(MHz)				3735	3750.00	3765.00	power(dB
70	QPSK	1	1	15.90	15.90	15.86	17.00
Channel				648668	650000	651332	Tune-up
Frequency(MHz)				3730	3750.00	3769.98	power(dB
60	QPSK	1	1	15.85	15.90	15.85	17.00
Channel				648334	650000	651666	Tune-up
Frequency(MHz)				3725	3750.00	3774.99	power(dB
50	QPSK	1	1	15.96	15.95	15.92	17.00
Channel				648000	650000	652000	Tune-up
Frequency(MHz)				3720	3750.00	3780.00	power(dB
40	QPSK	1	1	15.93	15.90	15.94	17.00
Channel				647668	650000	652332	Tune-up
Frequency(MHz)				3715	3750.00	3784.98	power(dB
30	QPSK	1	1	15.95	16.03	15.88	17.00
Channel				647500	650000	652500	Tune-up
Frequency(MHz)				3713	3750.00	3787.50	power(dB
25	QPSK	1	1	15.93	15.96	15.84	17.00
Channel				647334	650000	652666	Tune-up
Frequency(MHz)				3710	3750.00	3789.99	power(dB
20	QPSK	1	1	15.89	15.89	15.83	17.00
Channel				647168	650000	652832	Tune-up
Frequency(MHz)				3708	3750.00	3792.48	power(dB
15	QPSK	1	1	15.88	15.91	15.86	17.00
Channel				647000	650000	653000	Tune-up
Frequency(MHz)				3705	3750.00	3795.00	power(dB
10	QPSK	1	1	15.95	15.89	15.87	17.00

8.4.8 NR Band78 Output Power

N78-ANT7 Full power							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				650000			
Frequency(MHz)				3750			
100	PI/2 BPSK	1	1		16.46		17.50
		1	137		16.26		17.50
		1	271		16.43		17.50
		135	0		15.81		17.00
		135	69		16.37		17.50
		135	138		15.86		17.00
	QPSK	270	0		15.83		17.00
		1	1		16.38		17.50
		1	137		16.33		17.50
		1	271		16.32		17.50
		135	0		15.31		16.50
		135	69		16.28		17.50
		135	138		15.32		16.50
		270	0		15.34		16.50
	16QAM	1	1		15.52		16.50
	64QAM	1	1		13.96		15.00
Channel			649668	650000	650332	Tune-up	
Frequency(MHz)			3745	3750.00	3754.98	power(dB	
90	QPSK	1	1	16.43	16.44	16.41	17.50
Channel			649334	650000	650666	Tune-up	
Frequency(MHz)			3740	3750.00	3759.99	power(dB	
80	QPSK	1	1	16.30	16.40	16.40	17.50
Channel			649000	650000	651000	Tune-up	
Frequency(MHz)			3735	3750.00	3765.00	power(dB	
70	QPSK	1	1	16.30	16.38	16.35	17.50
Channel			648668	650000	651332	Tune-up	
Frequency(MHz)			3730	3750.00	3769.98	power(dB	
60	QPSK	1	1	16.35	16.40	16.36	17.50
Channel			648334	650000	651666	Tune-up	
Frequency(MHz)			3725	3750.00	3774.99	power(dB	
50	QPSK	1	1	16.37	16.30	16.37	17.50
Channel			648000	650000	652000	Tune-up	
Frequency(MHz)			3720	3750.00	3780.00	power(dB	
40	QPSK	1	1	16.42	16.41	16.33	17.50
Channel			647668	650000	652332	Tune-up	
Frequency(MHz)			3715	3750.00	3784.98	power(dB	
30	QPSK	1	1	16.36	16.31	16.37	17.50
Channel			647500	650000	652500	Tune-up	
Frequency(MHz)			3713	3750.00	3787.50	power(dB	
25	QPSK	1	1	16.42	16.40	16.40	17.50
Channel			647334	650000	652666	Tune-up	
Frequency(MHz)			3710	3750.00	3789.99	power(dB	
20	QPSK	1	1	16.29	16.38	16.33	17.50
Channel			647168	650000	652832	Tune-up	
Frequency(MHz)			3708	3750.00	3792.48	power(dB	
15	QPSK	1	1	16.30	16.43	16.32	17.50
Channel			647000	650000	653000	Tune-up	
Frequency(MHz)			3705	3750.00	3795.00	power(dB	
10	QPSK	1	1	16.42	16.37	16.37	17.50

8.4.8 NR Band78 Output Power

N78-ANT7 Full power-ENDC							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.			Tune-up power(dB m)
Channel				650000			
Frequency(MHz)				3750			
100	PI/2 BPSK	1	1		13.41		14.50
		1	137		13.22		14.50
		1	271		13.36		14.50
		135	0		12.76		14.00
		135	69		13.31		14.50
		135	138		12.77		14.00
	QPSK	270	0		12.79		14.00
		1	1		13.32		14.50
		1	137		13.26		14.50
		1	271		13.30		14.50
		135	0		12.30		13.50
		135	69		13.27		14.50
		135	138		12.23		13.50
		270	0		12.33		13.50
	16QAM	1	1		12.45		13.50
	64QAM	1	1		10.87		12.00
Channel				649668	650000	650332	Tune-up
Frequency(MHz)				3745	3750.00	3754.98	power(dB
90	QPSK	1	1	13.28	13.26	13.30	14.50
Channel				649334	650000	650666	Tune-up
Frequency(MHz)				3740	3750.00	3759.99	power(dB
80	QPSK	1	1	13.24	13.33	13.27	14.50
Channel				649000	650000	651000	Tune-up
Frequency(MHz)				3735	3750.00	3765.00	power(dB
70	QPSK	1	1	13.25	13.31	13.24	14.50
Channel				648668	650000	651332	Tune-up
Frequency(MHz)				3730	3750.00	3769.98	power(dB
60	QPSK	1	1	13.25	13.30	13.24	14.50
Channel				648334	650000	651666	Tune-up
Frequency(MHz)				3725	3750.00	3774.99	power(dB
50	QPSK	1	1	13.23	13.31	13.28	14.50
Channel				648000	650000	652000	Tune-up
Frequency(MHz)				3720	3750.00	3780.00	power(dB
40	QPSK	1	1	13.27	13.32	13.29	14.50
Channel				647668	650000	652332	Tune-up
Frequency(MHz)				3715	3750.00	3784.98	power(dB
30	QPSK	1	1	13.23	13.33	13.22	14.50
Channel				647500	650000	652500	Tune-up
Frequency(MHz)				3713	3750.00	3787.50	power(dB
25	QPSK	1	1	13.26	13.33	13.27	14.50
Channel				647334	650000	652666	Tune-up
Frequency(MHz)				3710	3750.00	3789.99	power(dB
20	QPSK	1	1	13.28	13.32	13.25	14.50
Channel				647168	650000	652832	Tune-up
Frequency(MHz)				3708	3750.00	3792.48	power(dB
15	QPSK	1	1	13.29	13.26	13.28	14.50
Channel				647000	650000	653000	Tune-up
Frequency(MHz)				3705	3750.00	3795.00	power(dB
10	QPSK	1	1	13.24	13.28	13.25	14.50