



REPORT No. : SZ21060226S01

Annex E Conducted Power

GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel		128	189	251		128	189	251		
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot		32.71	32.72	32.69	33.50	23.71	23.72	23.69	24.50	0.04
GPRS 1 Tx slot		32.70	32.72	32.68	33.50	23.70	23.72	23.68	24.50	
GPRS 2 Tx slots		31.68	31.74	31.66	32.50	25.68	25.74	25.66	26.50	0.08
GPRS 3 Tx slots		29.59	29.68	29.61	30.50	25.33	25.42	25.35	26.24	0.09
GPRS 4 Tx slots		28.44	28.52	28.41	29.00	25.44	25.52	25.41	26.00	0.11
EDGE 1 Tx slot		26.52	26.61	26.55	27.00	17.52	17.61	17.55	18.00	0.09
EDGE 2 Tx slots		25.35	25.31	25.33	26.00	19.35	19.31	19.33	20.00	0.04
EDGE 3 Tx slots		22.42	22.38	22.43	23.00	18.16	18.12	18.17	18.74	0.05
EDGE 4 Tx slots		21.42	21.39	21.36	22.00	18.42	18.39	18.36	19.00	0.06

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel		512	661	810		512	661	810		
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot		29.24	29.38	29.27	30.00	20.24	20.38	20.27	21.00	0.14
GPRS 1 Tx slot		29.25	29.37	29.30	30.00	20.25	20.37	20.30	21.00	
GPRS 2 Tx slots		28.25	28.31	28.28	29.00	22.25	22.31	22.28	23.00	0.06
GPRS 3 Tx slots		26.26	26.28	26.21	27.00	22.00	22.02	21.95	22.74	0.07
GPRS 4 Tx slots		25.12	25.24	25.20	26.00	22.12	22.24	22.20	23.00	0.12
EDGE 1 Tx slot		25.62	25.64	25.67	26.00	16.62	16.64	16.67	17.00	0.05
EDGE 2 Tx slots		24.58	24.42	24.46	25.00	18.58	18.42	18.46	19.00	0.16
EDGE 3 Tx slots		22.38	22.41	22.36	23.00	18.12	18.15	18.10	18.74	0.05
EDGE 4 Tx slots		21.65	21.42	21.51	22.00	18.65	18.42	18.51	19.00	0.23

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	22.58	22.61	22.54	23.00	22.86	22.87	22.76	23.50	23.28	23.35	23.26	24.00
3GPP Rel 6	HSDPA Subtest-1	22.32	22.37	22.44	23.00	22.53	22.51	22.53	23.00	22.33	22.23	22.20	23.00
3GPP Rel 6	HSDPA Subtest-2	22.28	22.33	22.36	23.00	22.62	22.55	22.52	23.00	22.32	22.19	22.13	23.00
3GPP Rel 6	HSDPA Subtest-3	21.79	21.86	21.88	22.50	22.07	22.07	22.02	23.00	21.86	21.78	21.70	22.50
3GPP Rel 6	HSDPA Subtest-4	21.77	21.82	21.84	22.50	22.06	22.01	22.03	23.00	21.79	21.76	21.71	22.50
3GPP Rel 6	HSUPA Subtest-1	22.33	21.86	21.86	23.00	22.09	22.05	22.10	23.00	21.87	21.72	21.68	22.50
3GPP Rel 6	HSUPA Subtest-2	22.32	22.39	22.39	23.00	22.60	22.53	22.60	23.00	22.34	22.23	22.15	23.00
3GPP Rel 6	HSUPA Subtest-3	21.29	21.38	21.40	22.00	21.62	21.58	21.51	22.00	21.30	21.26	21.15	22.00
3GPP Rel 6	HSUPA Subtest-4	22.32	22.35	22.41	23.00	22.62	22.49	22.56	23.00	22.35	22.23	22.17	23.00
3GPP Rel 6	HSUPA Subtest-5	21.28	21.38	21.36	22.00	21.57	21.56	21.55	22.00	21.34	21.24	21.21	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-	21.26	21.32	21.34	22.00	21.55	21.60	21.52	22.00	21.30	21.24	21.23	22.00

LTE Band 2							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	24
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.22	23.25	23.19	
20	QPSK	1	49	23.20	23.14	23.07	23
20	QPSK	1	99	23.14	23.10	23.08	
20	QPSK	50	0	22.30	22.39	22.32	
20	QPSK	50	24	22.31	22.36	22.36	23
20	QPSK	50	50	22.36	22.32	22.38	
20	QPSK	100	0	22.29	22.38	22.34	
20	16QAM	1	0	22.35	22.35	22.37	23
20	16QAM	1	49	22.19	22.49	22.45	
20	16QAM	1	99	22.44	22.29	22.69	
20	16QAM	50	0	22.37	22.34	22.32	23
20	16QAM	50	24	22.33	22.38	22.39	
20	16QAM	50	50	22.41	22.38	22.45	
20	16QAM	100	0	22.44	22.45	22.32	Tune-up limit (dBm)
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.03	23.06	22.97	24
15	QPSK	1	37	22.82	23.18	23.06	
15	QPSK	1	74	23.19	23.11	23.19	
15	QPSK	36	0	22.16	22.25	22.24	23
15	QPSK	36	20	22.15	22.34	22.31	
15	QPSK	36	39	22.27	22.28	22.25	
15	QPSK	75	0	22.19	22.25	22.21	23
15	16QAM	1	0	22.28	22.36	22.30	
15	16QAM	1	37	22.41	22.44	22.30	
15	16QAM	1	74	22.36	22.48	22.48	23
15	16QAM	36	0	22.15	22.20	22.23	
15	16QAM	36	20	22.24	22.17	22.30	
15	16QAM	36	39	22.29	22.38	22.35	Tune-up limit (dBm)
15	16QAM	75	0	22.16	22.18	22.27	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	24
10	QPSK	1	0	23.22	23.12	23.09	
10	QPSK	1	25	23.11	23.21	23.09	23
10	QPSK	1	49	23.00	23.08	23.00	
10	QPSK	25	0	22.27	22.28	22.24	23
10	QPSK	25	12	22.23	22.35	22.28	
10	QPSK	25	25	22.14	22.27	22.23	
10	QPSK	50	0	22.20	22.29	22.27	23
10	16QAM	1	0	22.68	22.61	22.60	
10	16QAM	1	25	22.37	22.33	22.40	
10	16QAM	1	49	22.32	22.40	22.19	23
10	16QAM	25	0	22.22	22.21	22.18	
10	16QAM	25	12	22.38	22.18	22.18	
10	16QAM	25	25	22.18	22.38	22.48	Tune-up limit (dBm)
10	16QAM	50	0	22.75	22.68	22.72	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	24
5	QPSK	1	0	23.14	23.19	23.13	
5	QPSK	1	12	23.13	23.08	23.11	23
5	QPSK	1	24	23.09	23.17	23.18	
5	QPSK	12	0	22.26	22.17	22.24	23
5	QPSK	12	7	22.27	22.32	22.24	
5	QPSK	12	13	22.26	22.25	22.28	
5	QPSK	25	0	22.25	22.23	22.25	23
5	16QAM	1	0	22.38	22.28	22.66	
5	16QAM	1	12	22.36	22.29	22.66	
5	16QAM	1	24	22.39	22.26	22.65	23
5	16QAM	12	0	22.48	22.62	22.48	
5	16QAM	12	7	22.38	22.38	22.18	
5	16QAM	12	13	22.18	22.51	22.28	Tune-up limit (dBm)
5	16QAM	25	0	22.28	22.74	22.72	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	24
3	QPSK	1	0	23.08	23.15	23.07	
3	QPSK	1	8	23.18	23.21	23.04	23
3	QPSK	1	14	23.19	23.06	23.06	
3	QPSK	8	0	22.26	22.21	22.23	23
3	QPSK	8	4	22.32	22.26	22.27	
3	QPSK	8	7	22.32	22.26	22.22	
3	QPSK	15	0	22.24	22.32	22.25	23
3	16QAM	1	0	22.40	22.31	22.25	
3	16QAM	1	8	22.44	22.38	22.34	
3	16QAM	1	14	22.25	22.22	22.10	23
3	16QAM	8	0	22.68	22.81	22.73	
3	16QAM	8	4	22.75	22.72	22.78	
3	16QAM	8	7	22.65	22.70	22.73	Tune-up limit (dBm)
3	16QAM	15	0	22.68	22.72	22.67	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	24
1.4	QPSK	1	0	23.14	23.17	23.12	
1.4	QPSK	1	3	23.04	23.02	23.01	23
1.4	QPSK	1	5	23.01	22.99	22.97	
1.4	QPSK	3	0	23.01	23.01	22.97	23
1.4	QPSK	3	1	23.05	23.02	23.00	
1.4	QPSK	3	3	23.07	23.11	23.00	
1.4	QPSK	6	0	22.22	22.20	22.19	23
1.4	16QAM	1	0	22.25	22.25	22.19	
1.4	16QAM	1	3	22.21	22.41	22.39	23
1.4	16QAM	1	5	22.09	22.29	21.97	
1.4	16QAM	3	0	22.11	22.16	22.13	
1.4	16QAM	3	1	22.29	22.11	22.16	23
1.4	16QAM	3	3	22.31	22.28	22.02	
1.4	16QAM	6	0	22.32	22.25	22.20	

LTE Band 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	24
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.26	23.34	23.33	23
20	QPSK	1	49	23.12	23.20	23.19	
20	QPSK	1	99	23.04	23.17	23.29	
20	QPSK	50	0	22.35	22.48	22.45	23
20	QPSK	50	24	22.35	22.43	22.43	
20	QPSK	50	50	22.24	22.35	22.36	
20	QPSK	100	0	22.34	22.38	22.45	23
20	16QAM	1	0	22.21	22.51	22.38	
20	16QAM	1	49	22.36	22.13	22.27	
20	16QAM	1	99	22.15	22.37	22.21	23
20	16QAM	50	0	22.34	22.27	22.41	
20	16QAM	50	24	22.60	22.71	22.60	
20	16QAM	50	50	22.56	22.57	22.57	23
20	16QAM	100	0	22.58	22.66	22.67	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	24
15	QPSK	1	0	23.13	23.17	23.27	
15	QPSK	1	37	23.17	23.26	23.18	23
15	QPSK	1	74	23.04	23.26	23.29	
15	QPSK	36	0	22.29	22.36	22.39	23
15	QPSK	36	20	22.33	22.46	22.42	
15	QPSK	36	39	22.38	22.37	22.46	
15	QPSK	75	0	22.33	22.35	22.36	23
15	16QAM	1	0	22.27	22.49	22.21	
15	16QAM	1	37	22.35	22.35	22.19	
15	16QAM	1	74	22.21	22.51	22.30	23
15	16QAM	36	0	22.22	22.24	22.43	
15	16QAM	36	20	22.17	22.24	22.30	
15	16QAM	36	39	22.13	22.22	22.28	23
15	16QAM	75	0	22.24	22.25	22.34	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	24
10	QPSK	1	0	23.05	23.24	23.07	
10	QPSK	1	25	23.03	23.16	23.17	23
10	QPSK	1	49	23.11	22.94	23.17	
10	QPSK	25	0	22.12	22.34	22.36	23
10	QPSK	25	12	22.24	22.30	22.34	
10	QPSK	25	25	22.13	22.24	22.31	
10	QPSK	50	0	22.19	22.29	22.21	23
10	16QAM	1	0	22.18	22.33	22.09	
10	16QAM	1	25	22.45	22.19	22.51	
10	16QAM	1	49	22.52	22.42	22.41	23
10	16QAM	25	0	22.18	22.17	22.16	
10	16QAM	25	12	22.10	22.20	22.17	
10	16QAM	25	25	22.44	22.35	22.44	23
10	16QAM	50	0	22.38	22.42	22.54	
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	24
5	QPSK	1	0	22.95	23.17	23.22	
5	QPSK	1	12	23.01	23.16	23.13	23
5	QPSK	1	24	22.96	23.08	23.07	
5	QPSK	12	0	22.20	22.20	22.24	23
5	QPSK	12	7	22.20	22.31	22.28	
5	QPSK	12	13	22.15	22.32	22.24	
5	QPSK	25	0	22.18	22.22	22.28	23
5	16QAM	1	0	22.08	22.49	22.17	
5	16QAM	1	12	22.19	22.54	22.13	
5	16QAM	1	24	22.13	22.48	22.08	23
5	16QAM	12	0	22.12	22.06	22.09	
5	16QAM	12	7	22.15	22.19	22.17	
5	16QAM	12	13	22.42	22.49	22.53	23
5	16QAM	25	0	22.43	22.54	22.47	
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	24
3	QPSK	1	0	23.07	23.08	23.20	
3	QPSK	1	8	23.16	23.30	23.24	23
3	QPSK	1	14	22.96	23.15	23.15	
3	QPSK	8	0	22.18	22.24	22.25	23
3	QPSK	8	4	22.24	22.32	22.34	
3	QPSK	8	7	22.20	22.30	22.30	
3	QPSK	15	0	22.20	22.26	22.20	23
3	16QAM	1	0	22.28	22.37	22.41	
3	16QAM	1	8	22.50	22.50	22.24	
3	16QAM	1	14	22.41	22.19	22.27	23
3	16QAM	8	0	22.20	22.21	22.30	
3	16QAM	8	4	22.30	22.30	22.31	
3	16QAM	8	7	22.52	22.60	22.64	23
3	16QAM	15	0	22.52	22.50	22.57	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	24
1.4	QPSK	1	0	22.82	23.03	23.04	
1.4	QPSK	1	3	23.16	23.16	23.20	23
1.4	QPSK	1	5	23.02	23.11	23.13	
1.4	QPSK	3	0	23.00	22.97	22.96	
1.4	QPSK	3	1	22.96	23.06	23.11	23
1.4	QPSK	3	3	22.95	23.02	23.01	
1.4	QPSK	6	0	22.23	22.25	22.21	
1.4	16QAM	1	0	22.17	22.64	22.30	23
1.4	16QAM	1	3	22.30	22.38	22.42	
1.4	16QAM	1	5	22.36	22.52	22.32	
1.4	16QAM	3	0	22.39	22.43	22.34	23
1.4	16QAM	3	1	22.40	22.43	22.45	
1.4	16QAM	3	3	22.39	22.51	22.40	
1.4	16QAM	6	0	22.30	22.31	22.22	23

LTE Band 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	24
10	QPSK	1	0	23.23	23.24	23.19	
10	QPSK	1	25	23.09	23.12	23.15	
10	QPSK	1	49	23.21	23.13	23.11	
10	QPSK	25	0	22.54	22.56	22.37	
10	QPSK	25	12	22.30	22.32	22.37	23
10	QPSK	25	25	22.30	22.41	22.46	
10	QPSK	50	0	22.36	22.24	22.38	
10	16QAM	1	0	22.40	22.59	22.30	
10	16QAM	1	25	22.63	22.66	22.34	
10	16QAM	1	49	22.46	22.52	22.59	23
10	16QAM	25	0	22.55	22.56	22.38	
10	16QAM	25	12	22.49	22.57	22.35	
10	16QAM	25	25	22.52	22.45	22.48	
10	16QAM	50	0	22.53	22.44	22.34	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.18	23.14	23.12	24
5	QPSK	1	12	23.08	23.19	23.03	
5	QPSK	1	24	23.08	23.03	23.03	
5	QPSK	12	0	22.45	22.50	22.36	
5	QPSK	12	7	22.52	22.53	22.45	
5	QPSK	12	13	22.57	22.41	22.36	23
5	QPSK	25	0	22.48	22.44	22.36	
5	16QAM	1	0	22.77	22.70	22.46	
5	16QAM	1	12	22.47	22.69	22.45	
5	16QAM	1	24	22.34	22.69	22.52	
5	16QAM	12	0	22.43	22.52	22.51	23
5	16QAM	12	7	22.50	22.53	22.35	
5	16QAM	12	13	22.50	22.41	22.46	
5	16QAM	25	0	22.51	22.56	22.51	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.17	23.18	23.03	24
3	QPSK	1	8	23.13	23.14	23.05	
3	QPSK	1	14	23.14	23.12	22.86	
3	QPSK	8	0	22.38	22.51	22.49	
3	QPSK	8	4	22.52	22.58	22.55	
3	QPSK	8	7	22.47	22.49	22.36	23
3	QPSK	15	0	22.45	22.51	22.50	
3	16QAM	1	0	22.47	22.58	22.65	
3	16QAM	1	8	22.40	22.66	22.50	
3	16QAM	1	14	22.45	22.71	22.46	
3	16QAM	8	0	22.41	22.50	22.24	23
3	16QAM	8	4	22.57	22.68	22.25	
3	16QAM	8	7	22.49	22.55	22.29	
3	16QAM	15	0	22.43	22.45	22.00	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.08	23.15	23.19	24
1.4	QPSK	1	3	23.21	23.14	23.21	
1.4	QPSK	1	5	23.10	23.04	23.05	
1.4	QPSK	3	0	23.11	23.17	23.13	
1.4	QPSK	3	1	23.17	23.04	23.14	
1.4	QPSK	3	3	23.18	23.10	23.10	23
1.4	QPSK	6	0	22.43	22.42	22.41	
1.4	16QAM	1	0	22.56	22.37	22.54	
1.4	16QAM	1	3	22.36	22.60	22.49	
1.4	16QAM	1	5	22.75	22.43	22.49	
1.4	16QAM	3	0	22.28	22.26	22.40	23
1.4	16QAM	3	1	22.31	22.58	22.44	
1.4	16QAM	3	3	22.39	22.50	22.38	
1.4	16QAM	6	0	22.58	22.45	22.49	

LTE Band 7							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	24
20	QPSK	1	0	23.54	23.55	23.47	
20	QPSK	1	49	23.49	23.53	23.42	
20	QPSK	1	99	23.44	23.39	23.44	
20	QPSK	50	0	22.50	22.57	22.54	
20	QPSK	50	24	22.26	22.23	22.13	23
20	QPSK	50	50	22.36	22.39	22.36	
20	QPSK	100	0	22.31	22.33	22.30	
20	16QAM	1	0	22.12	22.22	22.40	
20	16QAM	1	49	22.27	22.13	22.41	
20	16QAM	1	99	22.21	22.52	22.17	23
20	16QAM	50	0	22.06	22.16	22.09	
20	16QAM	50	24	22.11	22.03	22.14	
20	16QAM	50	50	22.19	22.24	22.07	
20	16QAM	100	0	22.07	22.19	22.17	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.24	23.33	23.33	24
15	QPSK	1	37	23.34	23.31	23.35	
15	QPSK	1	74	23.28	23.35	23.35	
15	QPSK	36	0	22.29	22.38	22.40	
15	QPSK	36	20	22.37	22.44	22.39	
15	QPSK	36	39	22.40	22.43	22.47	23
15	QPSK	75	0	22.46	22.39	22.41	
15	16QAM	1	0	22.62	22.73	22.80	
15	16QAM	1	37	22.44	22.55	22.53	
15	16QAM	1	74	22.48	22.48	22.70	
15	16QAM	36	0	22.07	22.18	22.20	23
15	16QAM	36	20	22.14	22.17	22.16	
15	16QAM	36	39	22.20	22.18	22.07	
15	16QAM	75	0	22.15	22.23	22.15	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.23	23.10	23.13	24
10	QPSK	1	25	23.26	23.16	23.18	
10	QPSK	1	49	23.19	23.16	23.18	
10	QPSK	25	0	22.21	22.21	22.20	
10	QPSK	25	12	22.17	22.29	22.34	
10	QPSK	25	25	22.10	22.28	22.28	23
10	QPSK	50	0	22.19	22.31	22.30	
10	16QAM	1	0	22.24	22.42	22.27	
10	16QAM	1	25	22.23	22.25	22.30	
10	16QAM	1	49	22.70	22.60	22.51	
10	16QAM	25	0	22.13	22.01	22.09	23
10	16QAM	25	12	21.95	22.12	22.05	
10	16QAM	25	25	22.00	22.03	21.95	
10	16QAM	50	0	22.03	22.12	21.97	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.27	23.18	23.08	24
5	QPSK	1	12	23.14	23.07	23.15	
5	QPSK	1	24	23.08	23.14	23.18	
5	QPSK	12	0	22.01	22.09	22.01	
5	QPSK	12	7	22.08	22.23	22.15	
5	QPSK	12	13	22.10	22.26	22.11	23
5	QPSK	25	0	22.11	22.12	22.07	
5	16QAM	1	0	22.09	22.07	22.13	
5	16QAM	1	12	22.14	22.36	22.26	
5	16QAM	1	24	22.20	22.39	22.21	
5	16QAM	12	0	22.11	22.17	22.08	23
5	16QAM	12	7	22.00	22.02	21.98	
5	16QAM	12	13	22.00	22.06	22.19	
5	16QAM	25	0	21.97	22.02	22.04	

LTE Band 12							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	24
10	QPSK	1	0	23.13	23.29	23.18	
10	QPSK	1	25	22.99	23.12	23.15	
10	QPSK	1	49	23.09	23.10	23.09	
10	QPSK	25	0	22.56	22.66	22.57	23
10	QPSK	25	12	22.53	22.47	22.26	
10	QPSK	25	25	22.58	22.64	22.57	
10	QPSK	50	0	22.59	22.61	22.52	
10	16QAM	1	0	22.52	22.07	22.20	23
10	16QAM	1	25	22.27	22.22	22.36	
10	16QAM	1	49	22.36	22.41	22.30	
10	16QAM	25	0	22.25	22.27	22.21	
10	16QAM	25	12	22.29	22.33	22.22	23
10	16QAM	25	25	22.34	22.35	22.29	
10	16QAM	50	0	22.24	22.32	22.37	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.88	23.21	22.99	24
5	QPSK	1	12	23.04	23.20	23.04	
5	QPSK	1	24	23.00	23.19	23.05	
5	QPSK	12	0	22.29	22.36	22.35	
5	QPSK	12	7	22.40	22.42	22.39	23
5	QPSK	12	13	22.35	22.38	22.35	
5	QPSK	25	0	22.31	22.43	22.39	
5	16QAM	1	0	22.32	22.34	22.36	
5	16QAM	1	12	22.49	22.44	22.45	23
5	16QAM	1	24	22.45	22.43	22.49	
5	16QAM	12	0	22.19	22.16	22.19	
5	16QAM	12	7	22.33	22.38	22.22	
5	16QAM	12	13	22.28	22.25	22.30	23
5	16QAM	25	0	22.29	22.25	22.27	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.96	23.23	22.90	24
3	QPSK	1	8	23.14	23.13	23.03	
3	QPSK	1	14	23.08	23.19	23.14	
3	QPSK	8	0	22.37	22.35	22.35	
3	QPSK	8	4	22.40	22.43	22.44	23
3	QPSK	8	7	22.35	22.43	22.37	
3	QPSK	15	0	22.34	22.42	22.28	
3	16QAM	1	0	22.35	22.71	22.30	
3	16QAM	1	8	22.55	22.53	22.48	23
3	16QAM	1	14	22.38	22.43	22.29	
3	16QAM	8	0	22.35	22.24	22.27	
3	16QAM	8	4	22.40	22.37	22.48	
3	16QAM	8	7	22.24	22.27	22.33	23
3	16QAM	15	0	22.22	22.15	22.14	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.99	23.16	22.96	24
1.4	QPSK	1	3	23.10	23.09	23.11	
1.4	QPSK	1	5	22.99	23.04	23.00	
1.4	QPSK	3	0	22.94	23.07	23.05	
1.4	QPSK	3	1	23.15	23.15	22.82	23
1.4	QPSK	3	3	23.10	23.12	23.08	
1.4	QPSK	6	0	22.34	22.31	22.29	
1.4	16QAM	1	0	22.38	22.32	22.17	
1.4	16QAM	1	3	22.19	22.62	22.29	23
1.4	16QAM	1	5	22.31	22.32	22.31	
1.4	16QAM	3	0	22.15	22.18	22.19	
1.4	16QAM	3	1	22.31	22.39	22.23	
1.4	16QAM	3	3	22.14	22.28	22.28	23
1.4	16QAM	6	0	22.07	22.27	22.17	

LTE Band 13							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		23.35		24
10	QPSK	1	25		23.27		
10	QPSK	1	49		23.32		
10	QPSK	25	0		22.59		23
10	QPSK	25	12		22.40		
10	QPSK	25	25		22.34		
10	QPSK	50	0		22.37		
10	16QAM	1	0		22.49		23
10	16QAM	1	25		22.41		
10	16QAM	1	49		22.71		
10	16QAM	25	0		22.52		23
10	16QAM	25	12		22.47		
10	16QAM	25	25		22.60		
10	16QAM	50	0		22.37		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.24	23.27	23.25	24
5	QPSK	1	12	23.24	23.26	23.22	
5	QPSK	1	24	23.23	23.21	23.14	
5	QPSK	12	0	22.15	22.23	22.32	
5	QPSK	12	7	22.22	22.21	22.30	23
5	QPSK	12	13	22.14	22.30	22.28	
5	QPSK	25	0	22.21	22.18	22.28	
5	16QAM	1	0	22.28	22.64	22.43	
5	16QAM	1	12	22.14	22.29	22.17	23
5	16QAM	1	24	22.24	22.06	22.07	
5	16QAM	12	0	22.67	22.64	22.57	
5	16QAM	12	7	22.68	22.57	22.69	
5	16QAM	12	13	22.65	22.64	22.68	23
5	16QAM	25	0	22.22	22.26	22.28	

LTE Band 14							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		23.23		24
10	QPSK	1	25		23.15		
10	QPSK	1	49		23.02		
10	QPSK	25	0		22.58		23
10	QPSK	25	12		22.46		
10	QPSK	25	25		22.43		
10	QPSK	50	0		22.48		
10	16QAM	1	0		22.43		23
10	16QAM	1	25		22.46		
10	16QAM	1	49		22.54		
10	16QAM	25	0		22.22		
10	16QAM	25	12		22.43		23
10	16QAM	25	25		22.43		
10	16QAM	50	0		22.26		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	23.03	23.13	23.02	24
5	QPSK	1	12	23.04	23.00	23.10	
5	QPSK	1	24	23.05	22.99	23.01	
5	QPSK	12	0	22.16	22.13	22.17	
5	QPSK	12	7	22.27	22.31	22.32	23
5	QPSK	12	13	22.24	22.26	22.23	
5	QPSK	25	0	22.25	22.14	22.18	
5	16QAM	1	0	22.16	22.09	22.29	
5	16QAM	1	12	22.21	22.13	22.19	23
5	16QAM	1	24	22.19	22.10	22.18	
5	16QAM	12	0	22.12	22.17	22.15	
5	16QAM	12	7	22.27	22.17	22.29	
5	16QAM	12	13	22.23	22.22	22.22	23
5	16QAM	25	0	22.24	22.18	22.22	

LTE Band 17							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	24
10	QPSK	1	0	23.09	23.21	23.16	
10	QPSK	1	25	23.07	23.15	23.02	
10	QPSK	1	49	22.99	23.12	23.12	
10	QPSK	25	0	22.29	22.42	22.39	23
10	QPSK	25	12	22.29	22.37	22.37	
10	QPSK	25	25	22.18	22.29	22.30	
10	QPSK	50	0	22.28	22.32	22.39	
10	16QAM	1	0	22.15	22.23	22.12	23
10	16QAM	1	25	22.30	22.07	22.21	
10	16QAM	1	49	22.09	22.31	22.07	
10	16QAM	25	0	22.20	22.25	22.35	
10	16QAM	25	12	22.16	22.27	22.16	23
10	16QAM	25	25	22.12	22.13	22.13	
10	16QAM	50	0	22.14	22.22	22.23	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.96	23.00	23.10	24
5	QPSK	1	12	23.00	23.09	23.01	
5	QPSK	1	24	22.87	23.09	23.12	
5	QPSK	12	0	22.11	22.18	22.21	
5	QPSK	12	7	22.15	22.28	22.24	23
5	QPSK	12	13	22.20	22.19	22.28	
5	QPSK	25	0	22.15	22.17	22.18	
5	16QAM	1	0	22.09	22.31	22.03	
5	16QAM	1	12	22.17	22.17	22.01	23
5	16QAM	1	24	22.03	22.33	22.12	
5	16QAM	12	0	22.04	22.06	22.25	
5	16QAM	12	7	21.99	22.06	22.12	
5	16QAM	12	13	21.95	22.04	22.10	23
5	16QAM	25	0	22.06	22.07	22.16	

LTE Band 25							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	23.23	23.28	23.23	
20	QPSK	1	49	23.11	23.07	23.13	24
20	QPSK	1	99	23.04	23.07	23.02	
20	QPSK	50	0	22.48	22.54	22.46	
20	QPSK	50	24	22.33	22.27	22.41	23
20	QPSK	50	50	22.31	22.31	22.40	
20	QPSK	100	0	22.44	22.31	22.32	
20	16QAM	1	0	22.17	22.36	22.50	23
20	16QAM	1	49	22.24	22.53	22.37	
20	16QAM	1	99	22.20	22.45	22.50	
20	16QAM	50	0	22.14	22.38	22.37	23
20	16QAM	50	24	22.20	22.35	22.33	
20	16QAM	50	50	22.03	22.29	22.34	
20	16QAM	100	0	22.07	22.36	22.33	Tune-up limit (dBm)
Channel				26115	26365	26615	
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	23.17	23.13	23.09	24
15	QPSK	1	37	23.16	23.12	23.11	
15	QPSK	1	74	23.08	23.14	23.13	
15	QPSK	36	0	22.24	22.42	22.58	23
15	QPSK	36	20	22.36	22.45	22.53	
15	QPSK	36	39	22.19	22.47	22.53	
15	QPSK	75	0	22.22	22.39	22.52	23
15	16QAM	1	0	22.70	22.75	22.47	
15	16QAM	1	37	22.87	22.43	22.80	
15	16QAM	1	74	22.71	22.76	22.92	23
15	16QAM	36	0	22.15	22.18	22.39	
15	16QAM	36	20	22.15	22.22	22.34	
15	16QAM	36	39	22.06	22.31	22.34	Tune-up limit (dBm)
15	16QAM	75	0	22.16	22.28	22.32	
Channel				26090	26365	26640	
Frequency (MHz)				1855	1882.5	1910	24
10	QPSK	1	0	23.17	23.18	23.09	
10	QPSK	1	25	23.12	23.06	23.05	
10	QPSK	1	49	23.15	23.13	23.05	23
10	QPSK	25	0	22.49	22.41	22.35	
10	QPSK	25	12	22.32	22.47	22.35	
10	QPSK	25	25	22.34	22.46	22.13	23
10	QPSK	50	0	22.50	22.46	22.57	
10	16QAM	1	0	22.45	22.35	22.60	
10	16QAM	1	25	22.39	22.17	22.63	23
10	16QAM	1	49	22.37	22.60	22.60	
10	16QAM	25	0	22.37	22.16	22.56	
10	16QAM	25	12	22.14	22.25	22.36	23
10	16QAM	25	25	22.24	22.20	22.26	
10	16QAM	50	0	22.15	22.32	22.06	Tune-up limit (dBm)
Channel				26065	26365	26665	
Frequency (MHz)				1852.5	1882.5	1912.5	24
5	QPSK	1	0	23.11	23.16	23.13	
5	QPSK	1	12	23.09	23.09	23.08	
5	QPSK	1	24	23.15	23.13	23.11	23
5	QPSK	12	0	22.54	22.28	22.54	
5	QPSK	12	7	22.67	22.53	22.64	
5	QPSK	12	13	22.24	22.63	22.56	23
5	QPSK	25	0	22.61	22.40	22.57	
5	16QAM	1	0	22.61	22.31	22.50	
5	16QAM	1	12	22.33	22.17	22.61	23
5	16QAM	1	24	22.24	22.26	22.60	
5	16QAM	12	0	22.11	22.09	22.45	
5	16QAM	12	7	22.14	22.26	22.22	23
5	16QAM	12	13	22.11	22.22	22.37	
5	16QAM	25	0	22.02	22.19	22.29	Tune-up limit (dBm)
Channel				26055	26365	26675	
Frequency (MHz)				1851.5	1882.5	1913.5	24
3	QPSK	1	0	23.10	23.12	23.14	
3	QPSK	1	8	23.13	23.08	23.12	
3	QPSK	1	14	23.01	23.09	23.02	23
3	QPSK	8	0	22.19	22.32	22.38	
3	QPSK	8	4	22.34	22.31	22.49	
3	QPSK	8	7	22.18	22.32	22.41	23
3	QPSK	15	0	22.25	22.31	22.45	
3	16QAM	1	0	22.31	22.39	22.55	
3	16QAM	1	8	22.59	22.55	22.39	23
3	16QAM	1	14	22.65	22.55	22.50	
3	16QAM	8	0	22.09	22.09	22.09	
3	16QAM	8	4	22.09	22.25	22.44	23
3	16QAM	8	7	22.20	22.39	22.45	
3	16QAM	15	0	22.24	22.14	22.35	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	23.11	23.11	23.09	24
1.4	QPSK	1	3	23.08	23.09	23.03	
1.4	QPSK	1	5	23.03	23.09	23.00	
1.4	QPSK	3	0	22.98	23.02	23.11	23
1.4	QPSK	3	1	23.01	23.05	23.08	
1.4	QPSK	3	3	23.06	22.99	23.03	
1.4	QPSK	6	0	22.30	22.47	22.29	23
1.4	16QAM	1	0	22.61	22.43	22.13	
1.4	16QAM	1	3	22.39	22.13	22.38	
1.4	16QAM	1	5	22.13	22.39	22.50	23
1.4	16QAM	3	0	22.36	22.38	22.40	
1.4	16QAM	3	1	22.40	22.55	22.61	
1.4	16QAM	3	3	22.17	22.41	22.65	23
1.4	16QAM	6	0	22.27	22.40	22.07	

LTE Band 26							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.21	23.25	23.22	24
15	QPSK	1	37	23.19	23.16	23.22	
15	QPSK	1	74	23.17	23.15	23.17	
15	QPSK	36	0	22.53	22.61	22.49	23
15	QPSK	36	20	22.42	22.36	22.21	
15	QPSK	36	39	22.44	22.23	22.29	
15	QPSK	75	0	22.50	22.24	22.31	23
15	16QAM	1	0	22.22	22.37	22.65	
15	16QAM	1	37	22.18	22.29	22.43	
15	16QAM	1	74	22.33	22.22	22.23	23
15	16QAM	36	0	22.33	22.19	22.22	
15	16QAM	36	20	22.28	22.08	22.23	
15	16QAM	36	39	22.35	22.15	22.23	23
15	16QAM	75	0	22.23	22.25	22.25	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	Tune-up limit (dBm)
10	QPSK	1	0	23.13	23.17	23.14	24
10	QPSK	1	25	23.16	23.15	23.08	
10	QPSK	1	49	23.02	23.15	23.07	
10	QPSK	25	0	22.55	22.36	22.22	23
10	QPSK	25	12	22.51	22.33	22.12	
10	QPSK	25	25	22.50	22.34	22.19	
10	QPSK	50	0	22.51	22.39	22.21	23
10	16QAM	1	0	22.23	22.55	22.32	
10	16QAM	1	25	22.32	22.41	22.46	
10	16QAM	1	49	22.26	22.25	22.23	23
10	16QAM	25	0	22.27	22.41	22.70	
10	16QAM	25	12	22.28	22.44	22.52	
10	16QAM	25	25	22.45	22.33	22.39	23
10	16QAM	50	0	22.62	22.49	22.51	
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	Tune-up limit (dBm)
5	QPSK	1	0	23.12	23.17	23.13	24
5	QPSK	1	12	23.07	23.11	23.13	
5	QPSK	1	24	23.03	23.15	23.15	
5	QPSK	12	0	22.49	22.31	22.20	23
5	QPSK	12	7	22.59	22.30	22.30	
5	QPSK	12	13	22.48	22.25	22.19	
5	QPSK	25	0	22.52	22.33	22.38	23
5	16QAM	1	0	22.23	22.23	22.24	
5	16QAM	1	12	22.27	22.17	22.14	
5	16QAM	1	24	22.32	22.32	22.37	23
5	16QAM	12	0	22.60	22.42	22.40	
5	16QAM	12	7	22.45	22.47	22.16	
5	16QAM	12	13	22.57	22.42	22.21	23
5	16QAM	25	0	22.12	22.26	22.23	
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	23.16	23.13	23.18	24
3	QPSK	1	8	23.07	23.15	23.07	
3	QPSK	1	14	23.12	23.08	23.14	
3	QPSK	8	0	22.39	22.23	22.42	23
3	QPSK	8	4	22.56	22.30	22.19	
3	QPSK	8	7	22.56	22.29	22.40	
3	QPSK	15	0	22.41	22.21	22.31	23
3	16QAM	1	0	22.52	22.46	22.47	
3	16QAM	1	8	22.51	22.40	22.43	
3	16QAM	1	14	22.49	22.34	22.34	23
3	16QAM	8	0	22.58	22.21	22.28	
3	16QAM	8	4	22.52	22.19	22.23	
3	16QAM	8	7	22.28	22.25	22.19	23
3	16QAM	15	0	22.35	22.22	22.32	
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	Tune-up limit (dBm)
1.4	QPSK	1	0	23.03	23.13	23.13	24
1.4	QPSK	1	3	23.02	23.13	23.05	
1.4	QPSK	1	5	23.02	23.04	23.04	
1.4	QPSK	3	0	23.16	23.04	23.06	23
1.4	QPSK	3	1	23.07	23.07	23.12	
1.4	QPSK	3	3	23.07	23.13	23.15	
1.4	QPSK	6	0	22.17	22.39	22.42	23
1.4	16QAM	1	0	22.22	22.29	22.29	
1.4	16QAM	1	3	22.29	22.23	22.23	
1.4	16QAM	1	5	22.38	22.52	22.33	23
1.4	16QAM	3	0	22.39	22.15	22.40	
1.4	16QAM	3	1	22.39	22.18	22.31	
1.4	16QAM	3	3	22.39	22.16	22.12	23
1.4	16QAM	6	0	22.75	22.72	22.70	

LTE Band 30								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				27710				
Frequency (MHz)				2310				
10	QPSK	1	0		22.83		23.5	
10	QPSK	1	25		22.78			
10	QPSK	1	49		22.82			
10	QPSK	25	0		21.79			
10	QPSK	25	12		21.68		22.5	
10	QPSK	25	25		21.66			
10	QPSK	50	0		21.77			
10	16QAM	1	0		21.74			
10	16QAM	1	25		21.65		22.5	
10	16QAM	1	49		21.91			
10	16QAM	25	0		21.77			
10	16QAM	25	12		21.76			
10	16QAM	25	25		21.74		22.5	
10	16QAM	50	0		21.70			
Channel				27685	27710	27735		Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	22.66	22.77	22.64	23.5	
5	QPSK	1	12	22.72	22.71	22.81		
5	QPSK	1	24	22.65	22.61	22.78		
5	QPSK	12	0	21.77	21.84	21.78		
5	QPSK	12	7	21.95	21.82	21.74	22.5	
5	QPSK	12	13	21.80	21.73	21.76		
5	QPSK	25	0	21.85	21.69	21.75		
5	16QAM	1	0	21.84	21.91	21.77		
5	16QAM	1	12	21.72	21.87	21.55	22.5	
5	16QAM	1	24	21.83	21.48	21.58		
5	16QAM	12	0	21.51	21.58	21.75		
5	16QAM	12	7	21.54	21.58	21.59		
5	16QAM	12	13	21.51	21.70	21.68	22.5	
5	16QAM	25	0	21.59	21.69	21.81		

LTE Band 66							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	24
20	QPSK	1	0	23.30	23.41	23.32	
20	QPSK	1	49	23.13	23.12	23.08	
20	QPSK	1	99	23.06	23.05	23.08	
20	QPSK	50	0	22.51	22.58	22.54	
20	QPSK	50	24	22.32	22.34	22.47	23
20	QPSK	50	50	22.36	22.44	22.32	
20	QPSK	100	0	22.34	22.34	22.26	
20	16QAM	1	0	22.39	22.15	22.43	
20	16QAM	1	49	22.44	22.18	22.24	
20	16QAM	1	99	22.44	22.62	22.41	23
20	16QAM	50	0	22.56	22.53	22.50	
20	16QAM	50	24	22.45	22.45	22.46	
20	16QAM	50	50	22.42	22.34	22.30	
20	16QAM	100	0	22.38	22.41	22.47	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.14	23.18	23.16	24
15	QPSK	1	37	23.28	23.14	23.12	
15	QPSK	1	74	23.12	23.08	23.06	
15	QPSK	36	0	22.33	22.30	22.34	
15	QPSK	36	20	22.33	22.25	22.35	
15	QPSK	36	39	22.19	22.24	22.21	23
15	QPSK	75	0	22.28	22.32	22.25	
15	16QAM	1	0	22.27	22.14	22.44	
15	16QAM	1	37	22.14	22.44	22.37	
15	16QAM	1	74	22.24	22.14	22.14	
15	16QAM	36	0	22.45	22.45	22.36	23
15	16QAM	36	20	22.48	22.47	22.53	
15	16QAM	36	39	22.40	22.55	22.49	
15	16QAM	75	0	22.50	22.48	22.44	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.12	23.12	23.13	24
10	QPSK	1	25	23.02	23.00	23.08	
10	QPSK	1	49	23.16	23.04	22.94	
10	QPSK	25	0	22.59	22.52	22.59	
10	QPSK	25	12	22.56	22.75	22.53	
10	QPSK	25	25	22.57	22.53	22.45	23
10	QPSK	50	0	22.65	22.50	22.69	
10	16QAM	1	0	22.57	22.57	22.77	
10	16QAM	1	25	22.57	22.66	22.78	
10	16QAM	1	49	22.40	22.60	22.48	
10	16QAM	25	0	22.41	22.58	22.46	23
10	16QAM	25	12	22.40	22.60	22.51	
10	16QAM	25	25	22.31	22.36	22.36	
10	16QAM	50	0	22.47	22.51	22.52	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.01	23.04	23.09	24
5	QPSK	1	12	23.04	23.04	23.03	
5	QPSK	1	24	23.12	23.02	23.08	
5	QPSK	12	0	22.28	22.30	22.26	
5	QPSK	12	7	22.30	22.38	22.31	
5	QPSK	12	13	22.21	22.27	22.28	23
5	QPSK	25	0	22.31	22.32	22.31	
5	16QAM	1	0	22.80	22.49	22.50	
5	16QAM	1	12	22.43	22.72	22.67	
5	16QAM	1	24	22.55	22.44	22.79	
5	16QAM	12	0	22.44	22.55	22.51	23
5	16QAM	12	7	22.61	22.53	22.65	
5	16QAM	12	13	22.52	22.46	22.53	
5	16QAM	25	0	22.53	22.55	22.47	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.08	22.99	22.98	24
3	QPSK	1	8	22.95	22.96	23.04	
3	QPSK	1	14	22.86	22.67	22.97	
3	QPSK	8	0	22.54	22.51	22.55	
3	QPSK	8	4	22.54	22.46	22.56	
3	QPSK	8	7	22.40	22.45	22.42	23
3	QPSK	15	0	22.49	22.53	22.46	
3	16QAM	1	0	22.18	22.59	22.35	
3	16QAM	1	8	22.51	22.45	22.44	
3	16QAM	1	14	22.55	22.44	22.14	
3	16QAM	8	0	22.36	22.36	22.27	23
3	16QAM	8	4	22.39	22.38	22.44	
3	16QAM	8	7	22.31	22.46	22.40	
3	16QAM	15	0	22.41	22.39	22.35	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.02	22.93	22.94	24
1.4	QPSK	1	3	23.08	23.10	23.10	
1.4	QPSK	1	5	23.00	22.88	23.04	
1.4	QPSK	3	0	22.99	22.92	22.99	
1.4	QPSK	3	1	22.96	23.02	22.93	
1.4	QPSK	3	3	22.97	22.93	22.85	23
1.4	QPSK	6	0	22.57	22.42	22.61	
1.4	16QAM	1	0	22.49	22.49	22.69	
1.4	16QAM	1	3	22.49	22.58	22.70	
1.4	16QAM	1	5	22.52	22.72	22.60	
1.4	16QAM	3	0	22.23	22.20	22.46	23
1.4	16QAM	3	1	22.32	22.22	22.34	
1.4	16QAM	3	3	22.33	22.34	22.28	
1.4	16QAM	6	0	22.22	22.13	22.14	

LTE Band 71

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	23.14	23.21	23.18	24
20	QPSK	1	49	23.13	23.15	23.15	
20	QPSK	1	99	23.05	23.11	23.08	
20	QPSK	50	0	22.25	22.47	22.33	23
20	QPSK	50	24	22.18	22.25	22.21	
20	QPSK	50	50	22.22	22.27	22.21	
20	QPSK	100	0	22.10	22.21	22.24	23
20	16QAM	1	0	22.22	22.22	22.15	
20	16QAM	1	49	22.47	22.07	22.47	
20	16QAM	1	99	22.41	22.40	22.51	23
20	16QAM	50	0	22.26	22.40	22.01	
20	16QAM	50	24	22.37	22.19	22.10	
20	16QAM	50	50	22.36	22.00	22.04	23
20	16QAM	100	0	22.37	22.40	22.06	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.87	23.05	23.06	24
15	QPSK	1	37	22.85	22.98	23.09	
15	QPSK	1	74	22.87	23.09	23.06	
15	QPSK	36	0	21.96	22.21	22.25	23
15	QPSK	36	20	22.16	22.25	22.21	
15	QPSK	36	39	22.23	22.21	22.14	
15	QPSK	75	0	22.11	22.11	22.12	23
15	16QAM	1	0	22.19	22.21	22.11	
15	16QAM	1	37	22.21	22.25	21.93	
15	16QAM	1	74	22.22	22.12	21.92	23
15	16QAM	36	0	22.25	22.21	22.10	
15	16QAM	36	20	22.23	22.37	22.14	
15	16QAM	36	39	22.25	22.27	22.12	23
15	16QAM	75	0	22.21	22.16	22.10	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	22.90	23.09	22.88	24
10	QPSK	1	25	23.01	22.88	23.08	
10	QPSK	1	49	23.02	23.04	22.77	
10	QPSK	25	0	22.21	22.07	22.07	23
10	QPSK	25	12	22.44	22.40	22.11	
10	QPSK	25	25	22.45	22.47	22.07	
10	QPSK	50	0	22.43	22.35	22.07	23
10	16QAM	1	0	22.03	21.80	22.11	
10	16QAM	1	25	22.17	22.07	22.47	
10	16QAM	1	49	22.54	22.10	22.19	23
10	16QAM	25	0	22.07	22.18	22.14	
10	16QAM	25	12	22.37	22.07	22.20	
10	16QAM	25	25	22.07	22.21	22.26	23
10	16QAM	50	0	22.19	22.23	22.15	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	22.94	23.04	22.88	24
5	QPSK	1	12	22.88	23.09	23.07	
5	QPSK	1	24	22.88	22.87	22.86	
5	QPSK	12	0	22.08	22.56	22.15	23
5	QPSK	12	7	22.22	22.21	22.21	
5	QPSK	12	13	22.10	22.12	22.14	
5	QPSK	25	0	22.40	22.41	22.07	23
5	16QAM	1	0	22.36	22.47	22.37	
5	16QAM	1	12	22.19	22.37	22.07	
5	16QAM	1	24	22.19	22.20	22.19	23
5	16QAM	12	0	22.20	22.25	22.19	
5	16QAM	12	7	22.19	22.21	22.19	
5	16QAM	12	13	22.10	22.22	22.19	23
5	16QAM	25	0	22.37	22.09	22.27	

LTE Band 40A							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0		23.12		24
10	QPSK	1	25		23.03		
10	QPSK	1	49		23.01		
10	QPSK	25	0		22.42		23
10	QPSK	25	12		22.29		
10	QPSK	25	25		22.31		
10	QPSK	50	0		22.23		23
10	16QAM	1	0		22.32		
10	16QAM	1	25		22.30		
10	16QAM	1	49		22.34		23
10	16QAM	25	0		22.23		
10	16QAM	25	12		22.30		
10	16QAM	25	25		22.27		23
10	16QAM	50	0		22.34		
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.69	23.01	22.92	24
5	QPSK	1	12	22.78	22.96	22.77	
5	QPSK	1	24	22.73	22.79	22.89	
5	QPSK	12	0	22.02	22.15	22.27	23
5	QPSK	12	7	22.18	22.24	22.34	
5	QPSK	12	13	22.28	22.44	22.47	
5	QPSK	25	0	22.31	22.37	22.58	23
5	16QAM	1	0	22.13	22.30	22.38	
5	16QAM	1	12	22.29	22.40	22.47	
5	16QAM	1	24	22.21	22.30	22.29	23
5	16QAM	12	0	22.27	22.15	22.31	
5	16QAM	12	7	22.29	22.21	22.24	
5	16QAM	12	13	22.14	22.12	22.31	23
5	16QAM	25	0	22.11	22.23	22.26	

LTE Band 40B							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0		23.14		24
10	QPSK	1	25		23.05		
10	QPSK	1	49		23.01		
10	QPSK	25	0		22.35		23
10	QPSK	25	12		22.27		
10	QPSK	25	25		22.28		
10	QPSK	50	0		22.25		23
10	16QAM	1	0		22.35		
10	16QAM	1	25		22.26		
10	16QAM	1	49		22.18		23
10	16QAM	25	0		22.30		
10	16QAM	25	12		22.33		
10	16QAM	25	25		22.32		23
10	16QAM	50	0		22.29		
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	23.02	22.97	23.06	24
5	QPSK	1	12	22.97	23.01	23.04	
5	QPSK	1	24	22.90	23.09	23.09	
5	QPSK	12	0	22.05	22.24	22.30	23
5	QPSK	12	7	22.07	22.28	22.30	
5	QPSK	12	13	22.05	22.28	22.28	
5	QPSK	25	0	22.00	22.18	22.34	23
5	16QAM	1	0	22.11	22.37	22.35	
5	16QAM	1	12	22.06	22.24	22.30	
5	16QAM	1	24	21.95	22.06	22.13	23
5	16QAM	12	0	22.03	22.19	22.36	
5	16QAM	12	7	21.95	22.28	22.36	
5	16QAM	12	13	22.01	22.22	22.18	23
5	16QAM	25	0	22.08	22.23	22.32	

LTE Band 41

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				40140	40390	40640	40890	41140	
Frequency (MHz)				2545	2570	2595	2620	2645	
20	QPSK	1	0	23.11	23.10	23.12	23.07	23.09	24
20	QPSK	1	49	22.96	23.05	23.05	23.06	23.06	
20	QPSK	1	99	22.90	23.06	23.01	23.11	22.86	
20	QPSK	50	0	22.22	22.42	22.43	22.41	22.36	23
20	QPSK	50	24	22.17	22.27	22.20	22.17	22.17	
20	QPSK	50	50	22.20	22.41	22.21	22.20	22.27	
20	QPSK	100	0	22.17	22.20	22.27	22.21	22.17	23
20	16QAM	1	0	22.21	22.37	22.20	22.27	22.17	
20	16QAM	1	49	22.20	22.25	22.20	22.15	22.17	
20	16QAM	1	99	22.27	22.17	22.27	22.25	22.27	23
20	16QAM	50	0	22.18	22.27	22.20	22.50	22.17	
20	16QAM	50	24	22.16	22.48	22.17	22.27	22.17	
20	16QAM	50	50	22.22	22.54	22.63	22.24	22.27	23
20	16QAM	100	0	22.16	22.47	22.62	22.31	22.20	
Channel				40115	40378	40640	40903	41165	Tune-up limit (dBm)
Frequency (MHz)				2542.5	2568.8	2595	2621.3	2647.5	
15	QPSK	1	0	22.66	22.82	23.02	22.89	22.88	24
15	QPSK	1	37	22.65	23.00	23.06	22.89	22.99	
15	QPSK	1	74	22.65	22.98	22.99	22.82	22.79	
15	QPSK	36	0	22.03	22.37	22.22	22.42	22.41	23
15	QPSK	36	20	22.08	22.42	22.18	22.38	22.48	
15	QPSK	36	39	22.24	22.45	22.17	22.41	22.43	
15	QPSK	75	0	22.02	22.47	22.20	22.44	22.40	23
15	16QAM	1	0	21.96	22.28	22.57	22.22	22.02	
15	16QAM	1	37	22.17	22.45	22.14	22.28	22.11	
15	16QAM	1	74	22.13	22.37	21.71	22.12	22.04	23
15	16QAM	36	0	22.00	22.44	22.11	22.31	22.49	
15	16QAM	36	20	22.05	22.38	22.07	22.27	22.51	
15	16QAM	36	39	22.12	22.51	22.61	22.31	22.27	23
15	16QAM	75	0	22.03	22.52	22.09	22.31	21.87	
Channel				40090	40365	40640	40915	41190	Tune-up limit (dBm)
Frequency (MHz)				2540	2567.5	2595	2622.5	2650	
10	QPSK	1	0	22.70	22.91	22.99	22.87	22.86	24
10	QPSK	1	25	22.90	22.96	22.86	22.82	22.81	
10	QPSK	1	49	22.67	22.83	23.06	23.06	22.82	
10	QPSK	25	0	21.99	22.42	22.30	22.26	22.27	23
10	QPSK	25	12	22.07	22.41	22.19	22.26	22.27	
10	QPSK	25	25	22.11	22.50	22.14	22.30	22.63	
10	QPSK	50	0	22.16	22.54	22.22	22.28	21.87	23
10	16QAM	1	0	22.02	21.89	22.04	22.29	22.07	
10	16QAM	1	25	22.20	21.98	22.19	22.12	22.11	
10	16QAM	1	49	22.06	21.94	22.11	22.25	22.26	23
10	16QAM	25	0	22.06	21.97	22.25	22.43	21.92	
10	16QAM	25	12	22.19	21.94	22.11	22.37	21.68	
10	16QAM	25	25	22.16	22.01	22.23	22.50	22.19	23
10	16QAM	50	0	22.14	21.97	22.21	22.39	21.95	
Channel				40065	40353	40640	40928	41215	Tune-up limit (dBm)
Frequency (MHz)				2537.5	2566.3	2595	2623.80	2652.5	
5	QPSK	1	0	22.67	22.76	22.99	22.96	22.77	24
5	QPSK	1	12	22.66	22.91	22.86	22.99	22.81	
5	QPSK	1	24	22.79	22.82	22.96	22.69	22.82	
5	QPSK	12	0	21.80	22.14	22.18	22.27	21.78	23
5	QPSK	12	7	22.09	22.48	22.24	22.54	22.21	
5	QPSK	12	13	22.03	22.48	22.46	22.60	22.27	
5	QPSK	25	0	22.06	22.49	22.47	22.62	22.20	23
5	16QAM	1	0	22.50	22.32	22.48	22.17	22.11	
5	16QAM	1	12	22.11	22.49	22.65	22.33	22.01	
5	16QAM	1	24	22.12	22.50	22.46	22.18	22.27	23
5	16QAM	12	0	22.10	22.05	22.12	22.30	22.07	
5	16QAM	12	7	22.22	22.00	22.22	22.41	22.20	
5	16QAM	12	13	22.28	22.13	22.12	22.34	21.99	23
5	16QAM	25	0	22.20	22.01	22.20	22.41	21.97	

2.4GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	CH 1	2412	14.95	15.50	17.0	100.00
		CH 6	2437	15.55	16.00	17.0	
		CH 11	2462	15.38	16.00	17.0	
	802.11g 6Mbps	CH 1	2412	13.82	14.50	16.0	97.20
		CH 6	2437	14.23	15.00	16.0	
		CH 11	2462	14.15	15.00	16.0	
	802.11n-HT20 MCS0	CH 1	2412	12.63	13.00	15.0	97.01
		CH 6	2437	13.21	14.00	15.0	
		CH 11	2462	12.91	13.50	15.0	
	802.11n-HT40 MCS0	CH 3	2422	10.95	11.50	13.0	93.48
		CH 6	2437	11.18	12.00	13.0	
		CH 9	2452	11.38	12.00	13.0	

5.2GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	CH 36	5180	14.55	15.00	16.0	96.53
		CH 44	5220	14.62	15.00	16.0	
		CH 48	5240	14.84	15.50	16.0	
	802.11n-HT20 MCS0	CH 36	5180	14.46	15.00	16.0	97.01
		CH 44	5220	14.41	15.00	16.0	
		CH 48	5240	14.65	15.00	16.0	
	802.11n-HT40 MCS0	CH 38	5190	10.44	11.00	14.0	93.53
		CH 46	5230	10.85	11.50	14.0	
	802.11ac-VHT20 MCS0	CH 36	5180	14.51	15.00	16.0	96.32
		CH 44	5220	14.56	15.00	16.0	
		CH 48	5240	14.47	15.00	16.0	
	802.11ac-VHT40 MCS0	CH 38	5190	14.26	15.00	16.0	93.53
		CH 46	5230	14.23	15.00	16.0	
	802.11ac-VHT80 MCS0	CH 42	5210	10.31	11.00	14.0	87.80

5.3GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	CH 52	5260	14.82	15.50	16.0	96.53
		CH 60	5300	14.62	15.00	16.0	
		CH 64	5320	14.63	15.00	16.0	
	802.11n-HT20 MCS0	CH 52	5260	14.62	15.00	16.0	97.01
		CH 60	5300	14.51	15.00	16.0	
		CH 64	5320	14.51	15.00	16.0	
	802.11n-HT40 MCS0	CH 54	5270	12.07	13.00	15.0	93.53
		CH 62	5310	12.14	13.00	15.0	
	802.11ac-VHT20 MCS0	CH 52	5260	14.69	15.00	16.0	96.32
		CH 60	5300	14.46	15.00	16.0	

		CH 64	5320	14.52	15.00	16.0	93.53
	802.11ac-VHT40 MCS0	CH 54	5270	14.30	15.00	16.0	
		CH 62	5310	14.00	15.00	16.0	
	802.11ac-VHT80 MCS0	CH 58	5290	10.80	11.50	14.0	87.80

5.8GHz WLAN

5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	14.29	15.00	16.0	96.53
		CH 157	5785	13.95	14.50	16.0	
		CH 165	5825	13.90	14.50	16.0	
	802.11n-HT20 MCS0	CH 149	5745	14.12	15.00	16.0	97.01
		CH 157	5785	13.80	14.50	16.0	
		CH 165	5825	13.91	14.50	16.0	
	802.11n-HT40 MCS0	CH 151	5755	13.79	14.50	16.0	93.53
		CH 159	5795	13.42	14.00	16.0	
	802.11ac-VHT20 MCS0	CH 149	5745	14.14	15.00	16.0	96.32
		CH 157	5785	13.82	14.50	16.0	
		CH 165	5825	13.93	14.50	16.0	
	802.11ac-VHT40 MCS0	CH 151	5755	13.79	14.50	16.0	93.53
		CH 159	5795	13.65	14.00	16.0	
	802.11ac-VHT80 MCS0	CH 155	5775	13.20	14.00	16.0	87.80

Bluetooth

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	9.63	7.41	7.43
	CH 39	2441	11.34	8.18	8.16
	CH 78	2480	4.93	1.20	1.23
Tune-up Limit			12	9	9
Duty Cycle %			76.8	76.8	76.8

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	
LE	CH 00	2402	-5.24	-7.76	
	CH 19	2440	-3.84	-6.36	
	CH 39	2480	-5.17	-7.78	
Tune-up Limit			-2	-5	
Duty Cycle %			60.58	31.25	