



REPORT No. : SZ21050064S01

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
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	31.92	31.70	31.77	32.50	22.92	22.70	22.77	23.50	0.26
GPRS 1 Tx slot	31.88	31.66	31.69	32.50	22.88	22.66	22.69	23.50	
GPRS 2 Tx slots	31.52	31.51	31.50	32.00	25.52	25.51	25.50	26.00	0.02
GPRS 3 Tx slots	31.14	31.11	31.10	31.50	26.88	26.85	26.84	27.24	0.04
GPRS 4 Tx slots	30.62	30.64	30.74	31.00	27.62	27.64	27.74	28.00	0.12
EDGE 1 Tx slot	25.61	25.39	25.41	26.00	16.61	16.39	16.41	17.00	0.22
EDGE 2 Tx slots	25.21	25.16	25.11	25.50	19.21	19.16	19.11	19.50	0.10
EDGE 3 Tx slots	25.05	25.13	24.97	25.50	20.79	20.87	20.71	21.24	0.16
EDGE 4 Tx slots	24.39	24.30	24.35	25.00	21.39	21.30	21.35	22.00	0.09

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	29.32	29.36	29.50	30.00	20.32	20.36	20.50	21.00	0.27
GPRS 1 Tx slot	29.23	29.31	29.40	30.00	20.23	20.31	20.40	21.00	
GPRS 2 Tx slots	25.86	25.96	26.15	27.00	19.86	19.96	20.15	21.00	0.29
GPRS 3 Tx slots	24.50	24.54	24.61	25.00	20.24	20.28	20.35	20.74	0.11
GPRS 4 Tx slots	23.24	23.31	23.54	24.50	20.24	20.31	20.54	21.50	0.30
EDGE 1 Tx slot	25.29	25.28	25.31	26.00	16.29	16.28	16.31	17.00	0.03
EDGE 2 Tx slots	23.19	23.02	23.35	24.00	17.19	17.02	17.35	18.00	0.33
EDGE 3 Tx slots	21.42	21.35	21.58	22.00	17.16	17.09	17.32	17.74	0.23
EDGE 4 Tx slots	20.32	20.12	20.55	21.00	17.32	17.12	17.55	18.00	0.43

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
TX Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
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	21.35	21.06	21.12	22.00	21.67	21.51	21.59	22.00	23.65	23.52	23.48	24.00
3GPP Rel 6 HSDPA Subtest-1	21.24	21.00	20.91	21.50	21.53	21.41	21.64	22.00	22.71	22.59	22.76	23.00
3GPP Rel 6 HSDPA Subtest-2	21.04	20.92	20.80	21.50	21.40	21.29	21.33	22.00	22.31	22.35	22.62	23.00
3GPP Rel 6 HSDPA Subtest-3	20.17	19.90	19.86	20.50	20.43	20.15	20.29	21.00	21.62	21.25	21.63	22.50
3GPP Rel 6 HSDPA Subtest-4	20.12	19.82	19.77	20.50	20.13	19.97	20.11	21.00	21.10	21.44	21.61	22.50
3GPP Rel 6 HSUPA Subtest-1	20.88	20.64	20.82	21.50	20.79	20.69	21.08	21.50	21.98	21.81	22.25	22.50
3GPP Rel 6 HSUPA Subtest-2	18.73	18.71	18.87	19.50	19.27	19.18	18.73	20.00	19.69	20.49	20.47	20.50
3GPP Rel 6 HSUPA Subtest-3	19.70	19.54	19.56	20.50	20.16	20.08	20.28	20.50	21.49	20.95	21.17	21.50
3GPP Rel 6 HSUPA Subtest-4	18.48	18.66	18.90	19.50	19.00	19.20	19.14	19.50	20.36	19.97	20.15	20.50
3GPP Rel 6 HSUPA Subtest-5	20.59	20.44	20.15	21.00	20.69	20.84	20.96	21.50	21.94	21.63	22.19	22.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-	18.24	18.04	18.34	19.00	18.25	17.88	18.75	19.00	19.05	19.22	19.54	20.00

Band	CDMA2000 BC0			Tune-up Limit (dBm)	CDMA2000 BC1			Tune-up Limit (dBm)
	1013	384	777		25	600	1175	
TX Channel	824.7	836.52	848.31		1851.25	1880	1908.75	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75	
RC1 SO55	23.26	23.23	23.33	24.00	20.40	20.47	20.33	21.00
RC3 SO55	23.33	23.27	23.23	24.00	20.39	20.35	20.28	21.00
RC3 SO32 (F+SCH)	23.43	23.45	23.28	24.00	20.45	20.45	20.34	21.00
RC3 SO32 (+SCH)	23.21	23.14	23.15	24.00	20.44	20.47	20.43	21.00
Rev.0/RTAP 153.6Kbps	23.46	23.17	23.44	24.00	20.56	20.46	20.41	21.00
Rev.A/RETAP 4096Bits	22.90	23.43	22.94	24.00	20.40	20.39	20.34	21.00
Rev.B/RMCTAP 307.2 Kbps	23.33	23.31	23.20	24.00	20.38	20.31	20.30	21.00

Band	CDMA2000 BC10			Tune-up Limit (dBm)
	476	580	684	
TX Channel	817.9	820.5	823.1	
Frequency (MHz)	817.9	820.5	823.1	
RC1 SO55	23.49	23.47	23.42	24.00
RC3 SO55	23.44	23.42	23.46	24.00
RC3 SO32 (F+SCH)	23.54	23.54	23.51	24.00
RC3 SO32 (+SCH)	23.51	23.52	23.52	24.00
Rev.0/RTAP 153.6Kbps	23.55	23.38	23.37	24.00
Rev.A/RETAP 4096Bits	23.07	23.02	23.07	23.50
Rev.B/RMCTAP 307.2 Kbps	23.05	22.98	23.04	23.50

LTE Band 2							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.63	19.66	19.60	20.5
20	QPSK	1	49	19.60	19.53	19.51	
20	QPSK	1	99	19.43	19.49	19.48	
20	QPSK	50	0	18.61	18.75	18.60	
20	QPSK	50	24	18.55	18.57	18.50	19.5
20	QPSK	50	50	18.53	18.56	18.47	
20	QPSK	100	0	18.35	18.42	18.40	
20	16QAM	1	0	18.55	18.60	18.41	
20	16QAM	1	49	18.54	18.53	18.31	19.5
20	16QAM	1	99	18.37	18.37	18.23	
20	16QAM	50	0	17.99	18.00	17.78	
20	16QAM	50	24	17.89	17.95	17.88	
20	16QAM	50	50	17.80	17.79	17.83	19
20	16QAM	100	0	17.71	17.74	17.78	
20	64QAM	1	0	18.27	18.28	18.18	
20	64QAM	1	49	18.28	18.18	18.26	
20	64QAM	1	99	18.18	18.27	18.21	19
20	64QAM	50	0	17.68	17.81	17.71	
20	64QAM	50	24	17.62	17.76	17.51	
20	64QAM	50	50	17.51	17.65	17.39	
20	64QAM	100	0	17.49	17.46	17.35	18.5
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.59	19.64	19.57	
15	QPSK	1	37	19.56	19.51	19.48	
15	QPSK	1	74	19.40	19.47	19.43	
15	QPSK	36	0	18.58	18.74	18.58	
15	QPSK	36	20	18.50	18.53	18.49	19.5
15	QPSK	36	39	18.49	18.51	18.44	
15	QPSK	75	0	18.34	18.39	18.36	
15	16QAM	1	0	18.51	18.57	18.37	
15	16QAM	1	37	18.50	18.51	18.28	19.5
15	16QAM	1	74	18.34	18.33	18.19	
15	16QAM	36	0	17.95	17.99	17.75	
15	16QAM	36	20	17.87	17.92	17.86	
15	16QAM	36	39	17.78	17.76	17.82	19
15	16QAM	75	0	17.67	17.72	17.73	
15	64QAM	1	0	18.22	18.24	18.14	
15	64QAM	1	37	18.25	18.17	18.23	
15	64QAM	1	74	18.15	18.25	18.18	19
15	64QAM	36	0	17.65	17.77	17.69	
15	64QAM	36	20	17.59	17.74	17.47	
15	64QAM	36	39	17.47	17.61	17.35	
15	64QAM	75	0	17.45	17.41	17.31	18.5
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.55	19.61	19.54	
10	QPSK	1	25	19.54	19.48	19.45	
10	QPSK	1	49	19.36	19.44	19.39	
10	QPSK	25	0	18.57	18.70	18.57	
10	QPSK	25	12	18.45	18.50	18.48	19.5
10	QPSK	25	25	18.47	18.47	18.41	
10	QPSK	50	0	18.31	18.35	18.31	
10	16QAM	1	0	18.46	18.56	18.33	
10	16QAM	1	25	18.46	18.48	18.24	19.5
10	16QAM	1	49	18.31	18.30	18.16	
10	16QAM	25	0	17.93	17.97	17.74	
10	16QAM	25	12	17.85	17.89	17.83	
10	16QAM	25	25	17.75	17.71	17.80	19
10	16QAM	50	0	17.64	17.70	17.68	
10	64QAM	1	0	18.21	18.22	18.12	
10	64QAM	1	25	18.23	18.14	18.19	
10	64QAM	1	49	18.13	18.22	18.14	19
10	64QAM	25	0	17.62	17.73	17.64	
10	64QAM	25	12	17.56	17.71	17.43	
10	64QAM	25	25	17.45	17.59	17.32	
10	64QAM	50	0	17.43	17.37	17.29	18.5
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.56	19.62	19.55	
5	QPSK	1	12	19.51	19.49	19.44	
5	QPSK	1	24	19.38	19.42	19.41	
5	QPSK	12	0	18.55	18.72	18.56	
5	QPSK	12	7	18.48	18.51	18.46	19.5
5	QPSK	12	13	18.45	18.47	18.39	
5	QPSK	25	0	18.33	18.37	18.32	
5	16QAM	1	0	18.49	18.55	18.33	
5	16QAM	1	12	18.48	18.48	18.26	19.5
5	16QAM	1	24	18.31	18.31	18.14	
5	16QAM	12	0	17.91	17.94	17.74	
5	16QAM	12	7	17.83	17.89	17.81	
5	16QAM	12	13	17.74	17.74	17.78	19
5	16QAM	25	0	17.65	17.69	17.70	
5	64QAM	1	0	18.18	18.23	18.12	
5	64QAM	1	12	18.23	18.13	18.20	
5	64QAM	1	24	18.13	18.23	18.14	19
5	64QAM	12	0	17.62	17.73	17.67	
5	64QAM	12	7	17.55	17.70	17.45	
5	64QAM	12	13	17.43	17.60	17.33	
5	64QAM	25	0	17.42	17.36	17.26	18.5
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.55	19.56	19.50	
3	QPSK	1	8	19.52	19.47	19.43	
3	QPSK	1	14	19.35	19.40	19.39	
3	QPSK	8	0	18.52	18.72	18.48	
3	QPSK	8	4	18.42	18.47	18.44	19.5
3	QPSK	8	7	18.41	18.47	18.40	
3	QPSK	15	0	18.29	18.35	18.31	

LTE Band 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.77	19.83	19.76	20.5
20	QPSK	1	49	19.66	19.80	18.74	
20	QPSK	1	99	19.62	19.68	19.60	
20	QPSK	50	0	18.89	18.96	18.84	
20	QPSK	50	24	18.74	18.93	18.76	19.5
20	QPSK	50	50	18.63	18.81	18.65	
20	QPSK	100	0	18.46	18.59	18.49	
20	16QAM	1	0	18.97	18.99	18.95	
20	16QAM	1	49	18.93	18.91	18.91	19.5
20	16QAM	1	99	18.90	18.79	18.78	
20	16QAM	50	0	17.90	18.08	17.84	
20	16QAM	50	24	17.87	17.94	17.72	
20	16QAM	50	50	17.85	17.83	17.67	19.5
20	16QAM	100	0	17.74	17.80	17.54	
20	64QAM	1	0	18.84	18.87	18.84	
20	64QAM	1	49	18.78	18.79	18.78	
20	64QAM	1	99	18.73	18.77	18.75	19.5
20	64QAM	50	0	17.95	17.91	17.81	
20	64QAM	50	24	17.89	17.81	17.77	
20	64QAM	50	50	17.80	17.76	17.71	
20	64QAM	100	0	17.75	17.63	17.56	18.5
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.73	19.81	19.72	
15	QPSK	1	37	19.64	19.78	18.71	
15	QPSK	1	74	19.59	19.63	19.56	
15	QPSK	36	0	18.85	18.94	18.82	
15	QPSK	36	20	18.71	18.92	18.75	19.5
15	QPSK	36	39	18.60	18.78	18.63	
15	QPSK	75	0	18.41	18.57	18.47	
15	16QAM	1	0	18.93	18.96	18.91	
15	16QAM	1	37	18.89	18.86	18.88	19.5
15	16QAM	1	74	18.86	18.75	18.74	
15	16QAM	36	0	17.87	18.03	17.83	
15	16QAM	36	20	17.82	17.93	17.71	
15	16QAM	36	39	17.81	17.81	17.62	19.5
15	16QAM	75	0	17.72	17.77	17.51	
15	64QAM	1	0	18.82	18.83	18.80	
15	64QAM	1	37	18.75	18.77	18.74	
15	64QAM	1	74	18.71	18.76	18.72	19.5
15	64QAM	36	0	17.92	17.88	17.79	
15	64QAM	36	20	17.86	17.78	17.73	
15	64QAM	36	39	17.78	17.72	17.69	
15	64QAM	75	0	17.71	17.61	17.54	18.5
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.72	19.77	19.68	
10	QPSK	1	25	19.59	19.75	18.66	
10	QPSK	1	49	19.58	19.60	19.51	
10	QPSK	25	0	18.83	18.91	18.78	
10	QPSK	25	12	18.67	18.90	18.72	19.5
10	QPSK	25	25	18.57	18.76	18.60	
10	QPSK	50	0	18.40	18.53	18.46	
10	16QAM	1	0	18.90	18.94	18.89	
10	16QAM	1	25	18.88	18.84	18.86	19.5
10	16QAM	1	49	18.81	18.72	18.73	
10	16QAM	25	0	17.82	17.99	17.80	
10	16QAM	25	12	17.78	17.89	17.67	
10	16QAM	25	25	17.77	17.78	17.60	19.5
10	16QAM	50	0	17.69	17.74	17.48	
10	64QAM	1	0	18.79	18.79	18.78	

3	16QAM	1	0	18.43	18.53	18.31	19.5
3	16QAM	1	8	18.44	18.46	18.22	
3	16QAM	1	14	18.26	18.27	18.13	
3	16QAM	8	0	17.91	17.91	17.71	19
3	16QAM	8	4	17.83	17.87	17.80	
3	16QAM	8	7	17.74	17.69	17.75	
3	16QAM	15	0	17.60	17.63	17.68	19
3	64QAM	1	0	18.17	18.20	18.07	
3	64QAM	1	8	18.19	18.12	18.15	
3	64QAM	1	14	18.09	18.18	18.12	18.5
3	64QAM	8	0	17.58	17.72	17.60	
3	64QAM	8	4	17.51	17.69	17.41	
3	64QAM	8	7	17.44	17.53	17.30	18.5
3	64QAM	15	0	17.40	17.38	17.25	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.50	19.57	19.48	20.5
1.4	QPSK	1	3	19.47	19.40	19.40	
1.4	QPSK	1	5	19.28	19.39	19.34	
1.4	QPSK	3	0	18.48	18.69	18.49	19.5
1.4	QPSK	3	1	18.39	18.43	18.44	
1.4	QPSK	3	3	18.39	18.42	18.40	
1.4	QPSK	6	0	18.27	18.29	18.25	19.5
1.4	16QAM	1	0	18.42	18.49	18.28	19.5
1.4	16QAM	1	3	18.40	18.39	18.17	
1.4	16QAM	1	5	18.25	18.26	18.09	
1.4	16QAM	3	0	17.90	17.91	17.65	19.5
1.4	16QAM	3	1	17.78	17.85	17.78	
1.4	16QAM	3	3	17.73	17.65	17.74	
1.4	16QAM	6	0	17.59	17.61	17.64	19.5
1.4	64QAM	1	0	18.14	18.15	18.08	19
1.4	64QAM	1	3	18.16	18.08	18.12	
1.4	64QAM	1	5	18.09	18.16	18.12	
1.4	64QAM	3	0	17.56	17.71	17.58	18.5
1.4	64QAM	3	1	17.53	17.65	17.39	
1.4	64QAM	3	3	17.39	17.51	17.25	
1.4	64QAM	6	0	17.39	17.31	17.24	

3	16QAM	1	0	18.87	18.89	18.83	19.5
3	16QAM	1	8	18.83	18.79	18.84	
3	16QAM	1	14	18.80	18.66	18.66	
3	16QAM	8	0	17.81	17.95	17.73	19.5
3	16QAM	8	4	17.78	17.86	17.62	
3	16QAM	8	7	17.76	17.74	17.57	
3	16QAM	15	0	17.67	17.71	17.44	19.5
3	64QAM	1	0	18.76	18.79	18.76	
3	64QAM	1	8	18.71	18.70	18.70	
3	64QAM	1	14	18.64	18.70	18.68	18.5
3	64QAM	8	0	17.87	17.83	17.72	
3	64QAM	8	4	17.79	17.70	17.68	
3	64QAM	8	7	17.70	17.64	17.59	18.5
3	64QAM	15	0	17.64	17.56	17.48	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	19.64	19.70	19.65	20.5
1.4	QPSK	1	3	19.55	19.69	18.64	
1.4	QPSK	1	5	19.49	19.55	19.45	
1.4	QPSK	3	0	18.74	18.84	18.73	19.5
1.4	QPSK	3	1	18.63	18.86	18.67	
1.4	QPSK	3	3	18.53	18.68	18.53	
1.4	QPSK	6	0	18.32	18.49	18.38	19.5
1.4	16QAM	1	0	18.84	18.84	18.82	19.5
1.4	16QAM	1	3	18.78	18.75	18.78	
1.4	16QAM	1	5	18.78	18.66	18.63	
1.4	16QAM	3	0	17.75	17.93	17.74	19.5
1.4	16QAM	3	1	17.73	17.84	17.61	
1.4	16QAM	3	3	17.73	17.73	17.52	
1.4	16QAM	6	0	17.65	17.69	17.41	19.5
1.4	64QAM	1	0	18.72	18.72	18.75	19.5
1.4	64QAM	1	3	18.68	18.68	18.63	
1.4	64QAM	1	5	18.66	18.66	18.65	
1.4	64QAM	3	0	17.81	17.78	17.68	18.5
1.4	64QAM	3	1	17.78	17.68	17.67	
1.4	64QAM	3	3	17.65	17.62	17.57	
1.4	64QAM	6	0	17.65	17.53	17.47	

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		
10	QPSK	1	0	22.89	23.01	22.82	23.5	
10	QPSK	1	25	22.85	22.98	22.75		
10	QPSK	1	49	22.74	22.96	22.66		
10	QPSK	25	0	21.88	21.91	21.82		
10	QPSK	25	12	21.82	21.81	21.69	22.5	
10	QPSK	25	25	21.76	21.74	21.56		
10	QPSK	50	0	21.65	21.69	21.41		
10	16QAM	1	0	22.24	22.42	22.01		
10	16QAM	1	25	22.10	22.30	21.99	23	
10	16QAM	1	49	22.01	22.26	21.94		
10	16QAM	25	0	21.12	21.04	20.87		
10	16QAM	25	12	21.02	20.96	20.77		
10	16QAM	25	25	20.88	20.87	20.62	21.5	
10	16QAM	50	0	20.78	20.76	20.53		
10	64QAM	1	0	22.52	22.35	22.21		
10	64QAM	1	25	22.49	22.27	22.19		
10	64QAM	1	49	22.42	22.19	22.13	23	
10	64QAM	25	0	21.06	20.95	20.86		
10	64QAM	25	12	20.92	20.89	20.75		
10	64QAM	25	25	20.89	20.77	20.73		
10	64QAM	50	0	20.74	20.67	20.65	21.5	
Channel				20425	20525	20625		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.83	22.96	22.77		23.5
5	QPSK	1	12	22.83	22.96	22.70		
5	QPSK	1	24	22.69	22.94	22.61		
5	QPSK	12	0	21.84	21.90	21.80		
5	QPSK	12	7	21.78	21.76	21.65	22.5	
5	QPSK	12	13	21.72	21.70	21.54		
5	QPSK	25	0	21.59	21.67	21.36		
5	16QAM	1	0	22.18	22.37	21.95		
5	16QAM	1	12	22.05	22.25	21.96	23	
5	16QAM	1	24	21.95	22.24	21.90		
5	16QAM	12	0	21.07	21.02	20.83		
5	16QAM	12	7	21.00	20.90	20.75		
5	16QAM	12	13	20.83	20.82	20.59	21.5	
5	16QAM	25	0	20.76	20.71	20.51		
5	64QAM	1	0	22.48	22.32	22.17		
5	64QAM	1	12	22.45	22.22	22.15		
5	64QAM	1	24	22.36	22.16	22.08	23	
5	64QAM	12	0	21.01	20.92	20.80		
5	64QAM	12	7	20.90	20.84	20.70		
5	64QAM	12	13	20.86	20.76	20.70		
5	64QAM	25	0	20.70	20.65	20.60	21.5	
Channel				20415	20525	20635		
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.77	22.92	22.74		23.5
3	QPSK	1	8	22.81	22.90	22.66		
3	QPSK	1	14	22.66	22.83	22.59		
3	QPSK	8	0	21.82	21.80	21.75		
3	QPSK	8	4	21.72	21.70	21.63	22.5	
3	QPSK	8	7	21.66	21.66	21.50		
3	QPSK	15	0	21.53	21.63	21.33		
3	16QAM	1	0	22.13	22.33	21.89		
3	16QAM	1	8	22.03	22.23	21.93	23	
3	16QAM	1	14	21.93	22.18	21.86		
3	16QAM	8	0	21.03	21.00	20.79		
3	16QAM	8	4	20.96	20.87	20.73		
3	16QAM	8	7	20.82	20.76	20.56	21.5	
3	16QAM	15	0	20.74	20.66	20.46		
3	64QAM	1	0	22.42	22.27	22.15		
3	64QAM	1	8	22.44	22.20	22.11		
3	64QAM	1	14	22.35	22.12	22.05	23	
3	64QAM	8	0	20.99	20.90	20.75		
3	64QAM	8	4	20.88	20.83	20.65		
3	64QAM	8	7	20.84	20.71	20.66		
3	64QAM	15	0	20.64	20.61	20.55	21.5	
Channel				20407	20525	20643		
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.76	22.86	22.71		23.5
1.4	QPSK	1	3	22.78	22.81	22.64		
1.4	QPSK	1	5	22.63	22.80	22.55		
1.4	QPSK	3	0	21.79	21.75	21.74		
1.4	QPSK	3	1	21.70	21.68	21.59	22	
1.4	QPSK	3	3	21.61	21.65	21.48		
1.4	QPSK	6	0	21.48	21.60	21.28		
1.4	16QAM	1	0	22.10	22.30	21.85		
1.4	16QAM	1	3	22.02	22.20	21.87	23	
1.4	16QAM	1	5	21.91	22.15	21.82		
1.4	16QAM	3	0	20.97	20.95	20.76		
1.4	16QAM	3	1	20.90	20.86	20.69		
1.4	16QAM	3	3	20.80	20.74	20.54	21.5	
1.4	16QAM	6	0	20.72	20.63	20.41		
1.4	64QAM	1	0	22.37	22.25	22.12		
1.4	64QAM	1	3	22.41	22.16	22.09		
1.4	64QAM	1	5	22.32	22.11	22.01	23	
1.4	64QAM	3	0	20.98	20.86	20.72		
1.4	64QAM	3	1	20.82	20.77	20.62		
1.4	64QAM	3	3	20.81	20.65	20.61		
1.4	64QAM	6	0	20.60	20.57	20.50	21	

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		
20	QPSK	1	0	19.26	19.37	19.08	20.5	
20	QPSK	1	49	19.13	19.24	18.89		
20	QPSK	1	99	18.75	18.95	18.84		
20	QPSK	50	0	18.49	18.53	18.41		
20	QPSK	50	24	18.35	18.41	18.32	19.5	
20	QPSK	50	50	18.26	18.33	18.27		
20	QPSK	100	0	18.46	18.51	18.33		
20	16QAM	1	0	18.63	18.53	18.44		
20	16QAM	1	49	18.47	18.41	18.32	19.5	
20	16QAM	1	99	18.33	18.34	18.21		
20	16QAM	50	0	17.68	17.43	17.76		
20	16QAM	50	24	17.45	17.36	17.58		
20	16QAM	50	50	17.34	17.27	17.43	18.5	
20	16QAM	100	0	17.53	17.44	17.64		
20	64QAM	1	0	18.53	18.42	18.31		
20	64QAM	1	49	18.43	18.34	18.26		
20	64QAM	1	99	18.36	18.27	18.15	19.5	
20	64QAM	50	0	17.53	17.34	17.54		
20	64QAM	50	24	17.33	17.28	17.54		
20	64QAM	50	50	17.36	17.15	17.31		
20	64QAM	100	0	17.41	17.38	17.59	18.5	
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	19.23	19.34	19.05		20.5
15	QPSK	1	37	19.10	19.21	18.86		
15	QPSK	1	74	18.72	18.92	18.81		
15	QPSK	36	0	18.46	18.50	18.38		
15	QPSK	36	20	18.32	18.38	18.29	19.5	
15	QPSK	36	39	18.23	18.30	18.24		
15	QPSK	75	0	18.43	18.48	18.30		
15	16QAM	1	0	18.60	18.50	18.41		
15	16QAM	1	37	18.44	18.38	18.29	19.5	
15	16QAM	1	74	18.30	18.31	18.18		
15	16QAM	36	0	17.65	17.40	17.73		
15	16QAM	36	20	17.42	17.33	17.55		
15	16QAM	36	39	17.31	17.24	17.40	18.5	
15	16QAM	75	0	17.50	17.41	17.61		
15	64QAM	1	0	18.50	18.39	18.28		
15	64QAM	1	37	18.40	18.31	18.23		
15	64QAM	1	74	18.33	18.24	18.12	19.5	
15	64QAM	36	0	17.50	17.31	17.51		
15	64QAM	36	20	17.30	17.25	17.51		
15	64QAM	36	39	17.33	17.12	17.28		
15	64QAM	75	0	17.38	17.35	17.56	18.5	
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	19.21	19.32	19.03		20.5
10	QPSK	1	25	19.08	19.19	18.84		
10	QPSK	1	49	18.70	18.90	18.79		
10	QPSK	25	0	18.44	18.48	18.36		
10	QPSK	25	12	18.30	18.36	18.27	19.5	
10	QPSK	25	25	18.21	18.28	18.22		
10	QPSK	50	0	18.41	18.46	18.28		
10	16QAM	1	0	18.58	18.48	18.39		
10	16QAM	1	25	18.42	18.36	18.27	19.5	
10	16QAM	1	49	18.28	18.29	18.16		
10	16QAM	25	0	17.63	17.38	17.71		
10	16QAM	25	12	17.40	17.31	17.53		
10	16QAM	25	25	17.29	17.22	17.38	18.5	
10	16QAM	50	0	17.48	17.39	17.59		
10	64QAM	1	0	18.48	18.37	18.26		
10	64QAM	1	25	18.38	18.29	18.21		
10	64QAM	1	49	18.31	18.22	18.10	19.5	
10	64QAM	25	0	17.48	17.29	17.49		
10	64QAM	25	12	17.28	17.23	17.49		
10	64QAM	25	25	17.31	17.10	17.26		
10	64QAM	50	0	17.36	17.33	17.54	18.5	
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
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LTE Band 12

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	21.5
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	21.18	21.25	21.14	21.5
10	QPSK	1	25	21.12	21.12	20.97	
10	QPSK	1	49	20.98	21.04	20.93	
10	QPSK	25	0	19.98	20.05	19.99	
10	QPSK	25	12	19.91	19.92	19.94	20.5
10	QPSK	25	25	19.85	19.78	19.92	
10	QPSK	50	0	19.83	19.72	19.79	
10	16QAM	1	0	20.10	20.18	20.16	
10	16QAM	1	25	20.01	20.05	20.10	20.5
10	16QAM	1	49	19.97	19.93	20.03	
10	16QAM	25	0	19.02	18.97	19.02	
10	16QAM	25	12	18.88	18.94	18.93	
10	16QAM	25	25	18.80	18.83	18.82	20.5
10	16QAM	50	0	18.75	18.77	18.78	
10	64QAM	1	0	20.07	20.25	20.27	
10	64QAM	1	25	19.96	20.21	20.20	
10	64QAM	1	49	19.81	20.15	20.17	20.5
10	64QAM	25	0	19.14	19.06	19.15	
10	64QAM	25	12	19.05	18.96	19.05	
10	64QAM	25	25	18.91	18.87	18.95	
10	64QAM	50	0	18.85	18.76	18.82	20
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)
5	QPSK	1	0	21.16	21.22	21.09	21.5
5	QPSK	1	12	21.09	21.09	20.92	
5	QPSK	1	24	20.95	21.01	20.89	
5	QPSK	12	0	19.96	20.01	19.95	
5	QPSK	12	7	19.90	19.90	19.90	20.5
5	QPSK	12	13	19.82	19.76	19.89	
5	QPSK	25	0	19.80	19.70	19.77	
5	16QAM	1	0	20.08	20.17	20.15	
5	16QAM	1	12	20.00	20.02	20.05	20.5
5	16QAM	1	24	19.93	19.91	20.00	
5	16QAM	12	0	19.01	18.92	19.01	
5	16QAM	12	7	18.83	18.92	18.89	
5	16QAM	12	13	18.78	18.79	18.79	20.5
5	16QAM	25	0	18.73	18.76	18.76	
5	64QAM	1	0	20.04	20.20	20.24	
5	64QAM	1	12	19.95	20.18	20.18	
5	64QAM	1	24	19.78	20.11	20.15	20.5
5	64QAM	12	0	19.10	19.04	19.10	
5	64QAM	12	7	19.01	18.95	19.03	
5	64QAM	12	13	18.86	18.83	18.92	
5	64QAM	25	0	18.84	18.73	18.80	20
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	Tune-up limit (dBm)
3	QPSK	1	0	21.12	21.20	21.04	21.5
3	QPSK	1	8	21.06	21.07	20.88	
3	QPSK	1	14	20.92	21.00	20.86	
3	QPSK	8	0	19.92	19.98	19.93	
3	QPSK	8	4	19.88	19.88	19.87	20.5
3	QPSK	8	7	19.80	19.74	19.87	
3	QPSK	15	0	19.78	19.68	19.74	
3	16QAM	1	0	20.04	20.15	20.12	
3	16QAM	1	8	19.97	19.98	20.01	20.5
3	16QAM	1	14	19.91	19.86	19.99	
3	16QAM	8	0	18.98	18.89	19.00	
3	16QAM	8	4	18.81	18.88	18.88	
3	16QAM	8	7	18.74	18.77	18.76	20.5
3	16QAM	15	0	18.70	18.73	18.72	
3	64QAM	1	0	20.02	20.16	20.20	
3	64QAM	1	8	19.91	20.16	20.14	
3	64QAM	1	14	19.75	20.08	20.12	20.5
3	64QAM	8	0	19.09	19.02	19.07	
3	64QAM	8	4	18.99	18.92	19.00	
3	64QAM	8	7	18.82	18.82	18.91	
3	64QAM	15	0	18.80	18.71	18.76	20
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	Tune-up limit (dBm)
1.4	QPSK	1	0	21.10	21.16	21.02	21.5
1.4	QPSK	1	3	21.00	21.04	20.83	
1.4	QPSK	1	5	20.87	20.94	20.83	
1.4	QPSK	3	0	19.92	19.95	19.89	
1.4	QPSK	3	1	19.83	19.86	19.85	
1.4	QPSK	3	3	19.75	19.70	19.81	
1.4	QPSK	6	0	19.74	19.68	19.73	20.5
1.4	16QAM	1	0	20.00	20.13	20.10	
1.4	16QAM	1	3	19.90	19.98	19.99	
1.4	16QAM	1	5	19.87	19.84	19.93	
1.4	16QAM	3	0	18.92	18.87	18.94	20.5
1.4	16QAM	3	1	18.78	18.84	18.80	
1.4	16QAM	3	3	18.69	18.72	18.72	
1.4	16QAM	6	0	18.70	18.70	18.69	
1.4	64QAM	1	0	19.99	20.14	20.17	20.5
1.4	64QAM	1	3	19.88	20.12	20.12	
1.4	64QAM	1	5	19.75	20.02	20.10	
1.4	64QAM	3	0	19.07	18.94	19.07	
1.4	64QAM	3	1	18.93	18.88	18.96	
1.4	64QAM	3	3	18.82	18.76	18.85	
1.4	64QAM	6	0	18.77	18.71	18.73	19.5

LTE Band 13

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			21
Frequency (MHz)				782			
10	QPSK	1	0	20.31			21
10	QPSK	1	25	20.26			
10	QPSK	1	49	20.17			
10	QPSK	25	0	19.64			
10	QPSK	25	12	19.55			20
10	QPSK	25	25	19.50			
10	QPSK	50	0	19.22			
10	16QAM	1	0	19.69			
10	16QAM	1	25	19.63			20
10	16QAM	1	49	19.59			
10	16QAM	25	0	18.66			
10	16QAM	25	12	18.64			
10	16QAM	25	25	18.56			20
10	16QAM	50	0	18.46			
10	64QAM	1	0	19.67			
10	64QAM	1	25	19.55			
10	64QAM	1	49	19.55			20
10	64QAM	25	0	18.64			
10	64QAM	25	12	18.54			
10	64QAM	25	25	18.41			
10	64QAM	50	0	18.24			19
Channel				23205	23230	23255	
Frequency (MHz)				779.5	782	784.5	Tune-up limit (dBm)
5	QPSK	1	0	20.21	20.26	20.25	21
5	QPSK	1	12	20.18	20.23	20.19	
5	QPSK	1	24	20.09	20.13	20.08	
5	QPSK	12	0	19.53	19.61	19.55	
5	QPSK	12	7	19.42	19.53	19.45	20
5	QPSK	12	13	19.36	19.47	19.37	
5	QPSK	25	0	19.08	19.18	19.13	
5	16QAM	1	0	19.56	19.66	19.61	
5	16QAM	1	12	19.46	19.62	19.54	20
5	16QAM	1	24	19.45	19.55	19.49	
5	16QAM	12	0	18.50	18.65	18.55	
5	16QAM	12	7	18.53	18.61	18.53	
5	16QAM	12	13	18.42	18.54	18.48	20
5	16QAM	25	0	18.35	18.43	18.38	
5	64QAM	1	0	19.56	19.63	19.58	
5	64QAM	1	12	19.41	19.53	19.49	
5	64QAM	1	24	19.42	19.51	19.43	20
5	64QAM	12	0	18.51	18.61	18.54	
5	64QAM	12	7	18.40	18.50	18.45	
5	64QAM	12	13	18.33	18.36	18.34	
5	64QAM	25	0	18.10	18.22	18.14	19

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	21.36			22
10	QPSK	1	25	21.28			
10	QPSK	1	49	21.13			
10	QPSK	25	0	20.34			21
10	QPSK	25	12	20.27			
10	QPSK	25	25	20.20			
10	QPSK	50	0	20.16			21
10	16QAM	1	0	20.58			
10	16QAM	1	25	20.47			
10	16QAM	1	49	20.42			21
10	16QAM	25	0	19.73			
10	16QAM	25	12	19.65			
10	16QAM	25	25	19.58			21
10	16QAM	50	0	19.51			
10	64QAM	1	0	20.55			
10	64QAM	1	25	20.50			21
10	64QAM	1	49	20.41			
10	64QAM	25	0	19.54			
10	64QAM	25	12	19.40			20
10	64QAM	25	25	19.30			
10	64QAM	50	0	19.24			
Channel				23305	23330	23355	
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	21.28	21.34	21.27	22
5	QPSK	1	12	21.23	21.25	21.17	
5	QPSK	1	24	21.07	21.11	21.01	
5	QPSK	12	0	20.29	20.30	20.21	21
5	QPSK	12	7	20.22	20.25	20.16	
5	QPSK	12	13	20.14	20.16	20.07	
5	QPSK	25	0	20.09	20.14	20.06	21
5	16QAM	1	0	20.51	20.56	20.43	
5	16QAM	1	12	20.41	20.44	20.33	
5	16QAM	1	24	20.39	20.38	20.30	21
5	16QAM	12	0	19.69	19.71	19.61	
5	16QAM	12	7	19.58	19.63	19.56	
5	16QAM	12	13	19.51	19.54	19.46	21
5	16QAM	25	0	19.45	19.49	19.41	
5	64QAM	1	0	20.51	20.51	20.44	
5	64QAM	1	12	20.44	20.47	20.36	21
5	64QAM	1	24	20.34	20.40	20.30	
5	64QAM	12	0	19.49	19.53	19.41	
5	64QAM	12	7	19.30	19.37	19.28	20
5	64QAM	12	13	19.24	19.28	19.19	
5	64QAM	25	0	19.18	19.22	19.13	

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	
10	QPSK	1	0	22.65	22.71	22.55	23.5
10	QPSK	1	25	22.41	22.60	22.49	
10	QPSK	1	49	22.36	22.53	22.40	
10	QPSK	25	0	21.64	21.70	21.67	22.5
10	QPSK	25	12	21.54	21.60	21.53	
10	QPSK	25	25	21.52	21.46	21.39	
10	QPSK	50	0	21.51	21.42	21.34	23
10	16QAM	1	0	22.26	22.07	22.32	
10	16QAM	1	25	22.24	21.93	22.30	
10	16QAM	1	49	22.18	21.85	22.19	21.5
10	16QAM	25	0	20.81	20.81	20.75	
10	16QAM	25	12	20.67	20.72	20.62	
10	16QAM	25	25	20.52	20.59	20.47	22.5
10	16QAM	50	0	20.50	20.56	20.35	
10	64QAM	1	0	21.94	22.25	22.16	
10	64QAM	1	25	21.92	22.10	22.08	21.5
10	64QAM	1	49	21.88	22.03	21.93	
10	64QAM	25	0	20.82	20.93	20.83	
10	64QAM	25	12	20.76	20.85	20.76	21.5
10	64QAM	25	25	20.71	20.72	20.70	
10	64QAM	50	0	20.62	20.67	20.62	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.45	22.51	22.29	23.5
5	QPSK	1	12	22.27	22.40	22.35	
5	QPSK	1	24	22.25	22.36	22.27	
5	QPSK	12	0	21.49	21.55	21.47	22.5
5	QPSK	12	7	21.40	21.50	21.35	
5	QPSK	12	13	21.34	21.41	21.31	
5	QPSK	25	0	21.39	21.31	21.22	23
5	16QAM	1	0	22.07	21.95	22.16	
5	16QAM	1	12	22.09	21.80	22.14	
5	16QAM	1	24	22.06	21.69	22.11	21.5
5	16QAM	12	0	20.68	20.75	20.61	
5	16QAM	12	7	20.57	20.64	20.47	
5	16QAM	12	13	20.37	20.46	20.34	22.5
5	16QAM	25	0	20.40	20.41	20.21	
5	64QAM	1	0	21.75	22.14	22.01	
5	64QAM	1	12	21.80	21.96	21.95	21.5
5	64QAM	1	24	21.75	21.90	21.81	
5	64QAM	12	0	20.67	20.84	20.66	
5	64QAM	12	7	20.61	20.69	20.60	21.5
5	64QAM	12	13	20.55	20.61	20.51	
5	64QAM	25	0	20.53	20.49	20.45	

LTE Band 25							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	20.5
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	20.11	20.26	20.22	20
20	QPSK	1	49	20.03	20.07	19.82	
20	QPSK	1	99	20.01	20.05	19.77	
20	QPSK	50	0	19.25	19.26	19.23	
20	QPSK	50	24	19.16	19.21	19.15	20
20	QPSK	50	50	19.13	19.14	19.19	
20	QPSK	100	0	19.09	19.12	19.06	
20	16QAM	1	0	19.06	19.11	18.94	
20	16QAM	1	49	18.91	19.03	18.88	20
20	16QAM	1	99	18.84	18.87	18.86	
20	16QAM	50	0	18.14	18.23	18.19	
20	16QAM	50	24	18.03	18.06	18.12	
20	16QAM	50	50	17.98	18.01	18.03	19.5
20	16QAM	100	0	18.05	18.11	18.16	
20	64QAM	1	0	19.05	19.08	18.93	
20	64QAM	1	49	18.91	18.95	18.87	
20	64QAM	1	99	18.89	18.85	18.83	19.5
20	64QAM	50	0	18.14	18.25	18.22	
20	64QAM	50	24	18.09	18.14	18.13	
20	64QAM	50	50	18.04	18.08	18.11	
20	64QAM	100	0	17.96	18.00	18.02	19
Channel				26115	26365	26615	
Frequency (MHz)				1857.5	1882.5	1907.5	20.5
15	QPSK	1	0	20.08	20.15	19.90	
15	QPSK	1	37	20.00	20.04	19.79	20
15	QPSK	1	74	19.98	20.02	19.74	
15	QPSK	36	0	19.22	19.23	19.20	
15	QPSK	36	20	19.13	19.18	19.12	
15	QPSK	36	39	19.10	19.11	19.16	20
15	QPSK	75	0	19.06	19.09	19.03	
15	16QAM	1	0	19.03	19.08	18.91	
15	16QAM	1	37	18.88	19.00	18.85	
15	16QAM	1	74	18.81	18.84	18.83	20
15	16QAM	36	0	18.12	18.19	18.16	
15	16QAM	36	20	18.01	18.01	18.09	
15	16QAM	36	39	17.95	17.99	17.99	
15	16QAM	75	0	18.02	18.08	18.13	19.5
15	64QAM	1	0	19.03	19.05	18.91	
15	64QAM	1	37	18.90	18.92	18.84	
15	64QAM	1	74	18.87	18.82	18.81	
15	64QAM	36	0	18.11	18.22	18.19	19.5
15	64QAM	36	20	18.06	18.11	18.10	
15	64QAM	36	39	18.01	18.05	18.08	
15	64QAM	75	0	17.93	17.97	17.99	
Channel				26090	26365	26640	20.5
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	20.06	20.13	19.88	20
10	QPSK	1	25	19.98	20.02	19.77	
10	QPSK	1	49	19.96	20.00	19.72	
10	QPSK	25	0	19.20	19.21	19.18	
10	QPSK	25	12	19.11	19.16	19.10	20
10	QPSK	25	25	19.08	19.09	19.14	
10	QPSK	50	0	19.04	19.07	19.01	
10	16QAM	1	0	19.01	19.06	18.89	
10	16QAM	1	25	18.86	18.98	18.83	20
10	16QAM	1	49	18.79	18.82	18.81	
10	16QAM	25	0	18.10	18.21	18.18	
10	16QAM	25	12	17.99	18.02	18.08	
10	16QAM	25	25	17.96	17.98	18.02	19.5
10	16QAM	50	0	18.00	18.06	18.11	
10	64QAM	1	0	19.02	19.04	18.91	
10	64QAM	1	25	18.89	18.93	18.84	
10	64QAM	1	49	18.85	18.81	18.79	19.5
10	64QAM	25	0	18.09	18.20	18.17	
10	64QAM	25	12	18.04	18.09	18.08	
10	64QAM	25	25	17.99	18.03	18.06	
10	64QAM	50	0	17.91	17.95	17.97	19
Channel				26065	26365	26665	
Frequency (MHz)				1852.5	1882.5	1912.5	20.5
5	QPSK	1	0	20.02	20.09	19.84	
5	QPSK	1	12	19.94	19.98	19.73	20
5	QPSK	1	24	19.92	19.96	19.68	
5	QPSK	12	0	19.16	19.17	19.14	
5	QPSK	12	7	19.07	19.12	19.06	
5	QPSK	12	13	19.04	19.05	19.10	20
5	QPSK	25	0	19.00	19.03	18.97	
5	16QAM	1	0	18.97	19.02	18.85	
5	16QAM	1	12	18.82	18.94	18.79	
5	16QAM	1	24	18.75	18.78	18.77	19.5
5	16QAM	12	0	18.05	18.20	18.17	
5	16QAM	12	7	17.98	18.00	18.04	
5	16QAM	12	13	17.95	17.94	17.98	
5	16QAM	25	0	17.96	18.02	18.07	19.5
5	64QAM	1	0	19.04	19.05	18.91	
5	64QAM	1	12	18.86	18.92	18.82	
5	64QAM	1	24	18.85	18.83	18.81	
5	64QAM	12	0	18.05	18.16	18.13	19
5	64QAM	12	7	18.00	18.05	18.04	
5	64QAM	12	13	17.95	17.99	18.02	
5	64QAM	25	0	17.87	17.91	17.93	
Channel				26055	26365	26675	20.5
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	19.99	20.06	19.81	20
3	QPSK	1	8	19.91	19.95	19.70	
3	QPSK	1	14	19.89	19.93	19.65	
3	QPSK	8	0	19.13	19.14	19.11	
3	QPSK	8	4	19.04	19.09	19.03	20
3	QPSK	8	7	19.01	19.02	19.07	
3	QPSK	15	0	18.97	19.00	18.94	

LTE Band 26							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	23.5
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	22.86	22.92	22.84	23.5
15	QPSK	1	37	22.81	22.77	22.73	
15	QPSK	1	74	22.68	22.65	22.68	
15	QPSK	36	0	21.96	22.11	21.93	
15	QPSK	36	20	21.86	22.07	21.79	22.5
15	QPSK	36	39	21.84	21.94	21.73	
15	QPSK	75	0	21.78	21.79	21.63	
15	16QAM	1	0	22.39	22.55	22.30	
15	16QAM	1	37	22.29	22.41	22.28	23
15	16QAM	1	74	22.17	22.26	22.13	
15	16QAM	36	0	21.15	21.05	20.86	
15	16QAM	36	20	21.05	20.93	20.78	
15	16QAM	36	39	20.92	20.88	20.74	21.5
15	16QAM	75	0	20.87	20.77	20.71	
15	64QAM	1	0	22.09	22.53	22.36	
15	64QAM	1	37	22.07	22.42	22.21	
15	64QAM	1	74	22.03	22.27	22.06	23
15	64QAM	36	0	21.18	21.03	20.82	
15	64QAM	36	20	21.15	20.97	20.80	
15	64QAM	36	39	21.06	20.86	20.77	
15	64QAM	75	0	20.97	20.71	20.67	21.5
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	20.5
10	QPSK	1	0	22.84	22.84	22.81	
10	QPSK	1	25	22.77	22.71	22.70	23.5
10	QPSK	1	49	22.61	22.61	22.62	
10	QPSK	25	0	21.92	22.08	21.82	
10	QPSK	25	12	21.84	22.00	21.76	
10	QPSK	25	25	21.80	21.86	21.69	22.5
10	QPSK	50	0	21.72	21.73	21.62	
10	16QAM	1	0	22.35	22.48	22.22	
10	16QAM	1	25	22.23	22.39	22.20	
10	16QAM	1	49	22.13	22.21	22.08	23
10	16QAM	25	0	21.11	20.99	20.81	
10	16QAM	25	12	21.03	20.86	20.75	
10	16QAM	25	25	20.86	20.81	20.70	
10	16QAM	50	0	20.86	20.75	20.64	21.5
10	64QAM	1	0	22.02	22.51	22.34	
10	64QAM	1	25	22.02	22.34	22.17	
10	64QAM	1	49	22.01	22.20	22.02	
10	64QAM	25	0	21.12	20.97	20.77	23
10	64QAM	25	12	21.13	20.94	20.77	
10	64QAM	25	25	21.02	20.83	20.76	
10	64QAM	50	0	20.94	20.63	20.61	
Channel				26715	26865	27015	20.5
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.77	22.78	22.77	23.5
5	QPSK	1	12	22.73	22.66	22.67	
5	QPSK	1	24	22.53	22.57	22.57	
5	QPSK	12	0	21.89	22.05	21.74	
5	QPSK	12	7	21.83	21.94	21.74	22.5
5	QPSK	12	13	21.77	21.82	21.65	
5	QPSK	25	0	21.69	21.69	21.54	
5	16QAM	1	0	22.29	22.46	22.17	
5	16QAM	1	12	22.17	22.36	22.13	23
5	16QAM	1	24	22.12	22.18	22.01	
5	16QAM	12	0	21.10	20.98	20.75	
5	16QAM	12	7	20.98	20.80	20.73	
5	16QAM	12	13	20.79	20.73	20.64	21.5
5	16QAM	25	0	20.84	20.69	20.62	
5	64QAM	1	0	21.99	22.44		

3	16QAM	1	0	18.94	18.99	18.82	20
3	16QAM	1	8	18.79	18.91	18.76	
3	16QAM	1	14	18.72	18.75	18.74	
3	16QAM	8	0	18.00	18.18	18.13	19.5
3	16QAM	8	4	17.95	17.96	18.03	
3	16QAM	8	7	17.94	17.91	17.97	
3	16QAM	15	0	17.93	17.99	18.04	19.5
3	64QAM	1	0	19.03	19.04	18.90	
3	64QAM	1	8	18.87	18.93	18.82	
3	64QAM	1	14	18.86	18.80	18.79	19
3	64QAM	8	0	18.02	18.13	18.10	
3	64QAM	8	4	17.97	18.02	18.01	
3	64QAM	8	7	17.92	17.96	17.99	19
3	64QAM	15	0	17.84	17.88	17.90	
Channel				26047	26365	26683	
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	19.96	20.03	19.78	20.5
1.4	QPSK	1	3	19.88	19.92	19.67	
1.4	QPSK	1	5	19.86	19.90	19.62	
1.4	QPSK	3	0	19.10	19.11	19.08	
1.4	QPSK	3	1	19.01	19.06	19.00	
1.4	QPSK	3	3	18.98	18.99	19.04	
1.4	QPSK	6	0	18.94	18.97	18.91	20
1.4	16QAM	1	0	18.91	18.96	18.79	
1.4	16QAM	1	3	18.76	18.88	18.73	
1.4	16QAM	1	5	18.69	18.72	18.71	
1.4	16QAM	3	0	18.00	18.17	18.13	
1.4	16QAM	3	1	17.95	17.96	18.02	
1.4	16QAM	3	3	17.94	17.90	17.94	19.5
1.4	16QAM	6	0	17.90	17.96	18.01	
1.4	64QAM	1	0	18.96	19.03	18.85	
1.4	64QAM	1	3	18.87	18.90	18.83	19.5
1.4	64QAM	1	5	18.81	18.79	18.77	
1.4	64QAM	3	0	17.99	18.10	18.07	
1.4	64QAM	3	1	17.94	17.99	17.98	
1.4	64QAM	3	3	17.89	17.93	17.96	18
1.4	64QAM	6	0	17.81	17.85	17.87	

1.4	16QAM	1	0	22.14	22.37	22.07	23
1.4	16QAM	1	3	22.14	22.30	22.02	
1.4	16QAM	1	5	21.98	22.09	21.96	
1.4	16QAM	3	0	21.00	20.88	20.67	
1.4	16QAM	3	1	20.83	20.66	20.63	
1.4	16QAM	3	3	20.71	20.62	20.50	
1.4	16QAM	6	0	20.81	20.63	20.52	21.5
1.4	64QAM	1	0	21.86	22.36	22.16	23
1.4	64QAM	1	3	21.89	22.24	22.07	
1.4	64QAM	1	5	21.97	22.02	21.89	
1.4	64QAM	3	0	20.96	20.88	20.60	
1.4	64QAM	3	1	20.98	20.83	20.67	
1.4	64QAM	3	3	20.81	20.75	20.66	
1.4	64QAM	6	0	20.85	20.46	20.43	21.5

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		
20	QPSK	1	0	19.93	19.94	19.82	20.5	
20	QPSK	1	49	19.77	19.82	19.77		
20	QPSK	1	99	19.75	19.68	19.62		
20	QPSK	50	0	18.70	18.78	18.68		
20	QPSK	50	24	18.62	18.68	18.65		
20	QPSK	50	50	18.48	18.64	18.56	19.5	
20	QPSK	100	0	18.44	18.55	18.52		
20	16QAM	1	0	19.31	19.36	19.31		
20	16QAM	1	49	19.28	19.26	19.26		
20	16QAM	1	99	19.25	19.14	19.13		
20	16QAM	50	0	18.18	18.31	18.12	19.5	
20	16QAM	50	24	18.13	18.22	18.10		
20	16QAM	50	50	18.10	18.16	18.08		
20	16QAM	100	0	18.02	18.08	18.05		
20	64QAM	1	0	19.17	19.26	19.22		
20	64QAM	1	49	19.11	19.22	19.20	19.5	
20	64QAM	1	99	19.14	19.17	19.13		
20	64QAM	50	0	17.93	17.95	17.91		
20	64QAM	50	24	17.87	17.79	17.75		
20	64QAM	50	50	17.78	17.74	17.69		
20	64QAM	100	0	17.73	17.61	17.64	18.5	
Channel				132047	132322	132597		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	19.77	19.90	19.78		20.5
15	QPSK	1	37	19.74	19.77	19.71		
15	QPSK	1	74	19.70	19.65	19.58		
15	QPSK	36	0	18.65	18.75	18.63		
15	QPSK	36	20	18.60	18.66	18.63		
15	QPSK	36	39	18.46	18.62	18.54	19.5	
15	QPSK	75	0	18.40	18.54	18.48		
15	16QAM	1	0	19.29	19.35	19.25		
15	16QAM	1	37	19.26	19.22	19.24		
15	16QAM	1	74	19.21	19.09	19.09		
15	16QAM	36	0	17.99	18.15	17.92	19.5	
15	16QAM	36	20	17.97	18.04	17.91		
15	16QAM	36	39	17.91	17.95	17.91		
15	16QAM	75	0	17.86	17.91	17.88		
15	64QAM	1	0	19.13	19.23	19.17		
15	64QAM	1	37	19.07	19.20	19.17	19.5	
15	64QAM	1	74	19.12	19.13	19.11		
15	64QAM	36	0	17.90	17.86	17.85		
15	64QAM	36	20	17.85	17.74	17.71		
15	64QAM	36	39	17.75	17.68	17.64		
15	64QAM	75	0	17.72	17.59	17.60	18.5	
Channel				132022	132322	132622		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	19.79	19.87	19.79		20.5
10	QPSK	1	25	19.74	19.79	19.73		
10	QPSK	1	49	19.72	19.63	19.56		
10	QPSK	25	0	18.66	18.75	18.65		
10	QPSK	25	12	18.60	18.64	18.61		
10	QPSK	25	25	18.46	18.63	18.50	19.5	
10	QPSK	50	0	18.39	18.57	18.48		
10	16QAM	1	0	19.28	19.31	19.26		
10	16QAM	1	25	19.25	19.24	19.23		
10	16QAM	1	49	19.23	19.09	19.08		
10	16QAM	25	0	18.00	18.12	17.93	19.5	
10	16QAM	25	12	17.94	18.06	17.91		
10	16QAM	25	25	17.91	18.00	17.91		
10	16QAM	50	0	17.86	17.90	17.87		
10	64QAM	1	0	19.16	19.23	19.21		
10	64QAM	1	25	19.08	19.19	19.18	19.5	
10	64QAM	1	49	19.10	19.15	19.10		
10	64QAM	25	0	17.89	17.91	17.87		
10	64QAM	25	12	17.84	17.73	17.74		
10	64QAM	25	25	17.73	17.71	17.64		
10	64QAM	50	0	17.69	17.56	17.58	18.5	
Channel				131997	132322	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	19.77	19.83	19.78		20.5
5	QPSK	1	12	19.69	19.75	19.71		
5	QPSK	1	24	19.70	19.60	19.50		
5	QPSK	12	0	18.61	18.71	18.63		
5	QPSK	12	7	18.58	18.58	18.60		
5	QPSK	12	13	18.41	18.60	18.48	19.5	
5	QPSK	25	0	18.34	18.53	18.44		
5	16QAM	1	0	19.24	19.28	19.22		
5	16QAM	1	12	19.22	19.19	19.21		
5	16QAM	1	24	19.18	19.04	19.04		
5	16QAM	12	0	17.94	18.07	17.91	19.5	
5	16QAM	12	7	17.89	18.05	17.89		
5	16QAM	12	13	17.89	17.94	17.88		
5	16QAM	25	0	17.81	17.88	17.81		
5	64QAM	1	0	19.16	19.23	19.19		
5	64QAM	1	12	19.06	19.18	19.19	19.5	
5	64QAM	1	24	19.12	19.13	19.08		
5	64QAM	12	0	17.84	17.89	17.84		
5	64QAM	12	7	17.80	17.69	17.71		
5	64QAM	12	13	17.71	17.69	17.62		
5	64QAM	25	0	17.65	17.54	17.54	18.5	
Channel				131987	132322	132657		
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	19.75	19.78	19.76		20.5
3	QPSK	1	8	19.65	19.73	19.66		
3	QPSK	1	14	19.66	19.55	19.45		
3	QPSK	8	0	18.58	18.69	18.59		
3	QPSK	8	4	18.56	18.55	18.57		
3	QPSK	8	7	18.38	18.59	18.44	19.5	
3	QPSK	15	0	18.30	18.50	18.42		

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)				683	683	688		
20	QPSK	1	0	20.14	20.18	20.02	20.5	
20	QPSK	1	49	20.02	20.10	19.91		
20	QPSK	1	99	19.88	20.02	19.80		
20	QPSK	50	0	19.01	19.07	18.96		
20	QPSK	50	24	18.90	19.02	18.83		
20	QPSK	50	50	18.82	18.90	18.74	19.5	
20	QPSK	100	0	18.73	18.79	18.64		
20	16QAM	1	0	19.31	19.33	19.48		
20	16QAM	1	49	19.27	19.19	19.44		
20	16QAM	1	99	19.23	19.16	19.42		
20	16QAM	50	0	18.12	18.15	18.10	19.5	
20	16QAM	50	24	18.02	18.07	18.07		
20	16QAM	50	50	17.97	17.95	17.94		
20	16QAM	100	0	17.83	17.85	17.85		
20	64QAM	1	0	19.24	19.13	19.33		
20	64QAM	1	49	19.15	19.09	19.32	19.5	
20	64QAM	1	99	19.06	19.01	19.30		
20	64QAM	50	0	18.07	18.09	18.11		
20	64QAM	50	24	17.97	18.07	17.98		
20	64QAM	50	50	17.89	17.96	17.90		
20	64QAM	100	0	17.84	17.85	17.83	18.5	
Channel				133297	133397	133497		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	20.06	20.11	19.96		20.5
15	QPSK	1	37	19.95	20.04	19.89		
15	QPSK	1	74	19.81	19.99	19.75		
15	QPSK	36	0	18.99	19.04	18.88		
15	QPSK	36	20	18.83	18.96	18.80		
15	QPSK	36	39	18.74	18.89	18.73	19.5	
15	QPSK	75	0	18.69	18.74	18.58		
15	16QAM	1	0	19.24	19.25	19.41		
15	16QAM	1	37	19.21	19.15	19.38		
15	16QAM	1	74	19.15	19.14	19.40		
15	16QAM	36	0	18.11	18.12	18.06	19.5	
15	16QAM	36	20	18.01	18.03	18.06		
15	16QAM	36	39	17.92	17.88	17.89		
15	16QAM	75	0	17.82	17.78	17.84		
15	64QAM	1	0	19.18	19.12	19.27		
15	64QAM	1	37	19.11	19.01	19.27	19.5	
15	64QAM	1	74	19.02	19.00	19.25		
15	64QAM	36	0	18.05	18.02	18.10		
15	64QAM	36	20	17.94	18.02	17.96		
15	64QAM	36	39	17.85	17.91	17.83		
15	64QAM	75	0	17.78	17.81	17.80	18.5	
Channel				133272	133372	133522		
Frequency (MHz)				668	678	693		
10	QPSK	1	0	20.00	20.09	19.91		20.5
10	QPSK	1	25	19.88	20.00	19.85		
10	QPSK	1	49	19.73	19.97	19.73		
10	QPSK	25	0	18.94	18.97	18.85		
10	QPSK	25	12	18.76	18.95	18.74		
10	QPSK	25	25	18.73	18.87	18.69	19.5	
10	QPSK	50	0	18.68	18.72	18.51		
10	16QAM	1	0	19.21	19.20	19.34		
10	16QAM	1	25	19.17	19.08	19.33		
10	16QAM	1	49	19.13	19.10	19.32		
10	16QAM	25	0	18.07	18.07	18.02	19.5	
10	16QAM	25	12	17.99	18.01	18.03		
10	16QAM	25	25	17.85	17.81	17.86		
10	16QAM	50	0	17.80	17.71	17.79		
10	64QAM	1	0	19.11	19.06	19.26		
10	64QAM							

3	16QAM	1	0	19.19	19.25	19.19	19.5
3	16QAM	1	8	19.17	19.16	19.19	
3	16QAM	1	14	19.15	19.01	19.02	
3	16QAM	8	0	17.89	18.02	17.87	19.5
3	16QAM	8	4	17.87	18.04	17.87	
3	16QAM	8	7	17.87	17.93	17.84	
3	16QAM	15	0	17.79	17.84	17.75	
3	64QAM	1	0	19.14	19.24	19.17	19.5
3	64QAM	1	8	19.07	19.19	19.18	
3	64QAM	1	14	19.09	19.13	19.09	
3	64QAM	8	0	17.81	17.87	17.81	18.5
3	64QAM	8	4	17.78	17.68	17.68	
3	64QAM	8	7	17.65	17.66	17.59	
3	64QAM	15	0	17.63	17.50	17.51	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.75	19.81	19.76	20.5
1.4	QPSK	1	3	19.64	19.71	19.68	
1.4	QPSK	1	5	19.66	19.57	19.48	
1.4	QPSK	3	0	18.58	18.68	18.59	
1.4	QPSK	3	1	18.57	18.56	18.55	
1.4	QPSK	3	3	18.40	18.57	18.44	
1.4	QPSK	6	0	18.28	18.50	18.40	19.5
1.4	16QAM	1	0	19.22	19.24	19.17	19.5
1.4	16QAM	1	3	19.20	19.14	19.18	
1.4	16QAM	1	5	19.16	19.00	19.00	
1.4	16QAM	3	0	17.90	18.06	17.88	
1.4	16QAM	3	1	17.86	18.01	17.84	
1.4	16QAM	3	3	17.83	17.93	17.85	
1.4	16QAM	6	0	17.78	17.84	17.79	19.5
1.4	64QAM	1	0	19.10	19.23	19.13	19.5
1.4	64QAM	1	3	19.06	19.15	19.15	
1.4	64QAM	1	5	19.07	19.11	19.07	
1.4	64QAM	3	0	17.82	17.85	17.83	
1.4	64QAM	3	1	17.74	17.67	17.68	
1.4	64QAM	3	3	17.69	17.66	17.56	
1.4	64QAM	6	0	17.61	17.50	17.50	18.5

LTE Band 38								
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel		Tune-up limit (dBm)
Channel				37650	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	21.59	21.68	21.41		22
20	QPSK	1	49	21.53	21.56	21.32		22
20	QPSK	1	99	21.44	21.48	21.28		22
20	QPSK	50	0	20.66	20.77	20.51		21
20	QPSK	50	24	20.52	20.64	20.48		21
20	QPSK	50	50	20.50	20.60	20.50		21
20	QPSK	100	0	20.42	20.50	20.38		21
20	16QAM	1	0	20.94	20.83	20.76		21.5
20	16QAM	1	49	20.84	20.74	20.85		21.5
20	16QAM	1	99	20.80	20.68	20.53		21.5
20	16QAM	50	0	19.94	19.71	19.80		20.5
20	16QAM	50	24	19.92	19.59	19.59		20.5
20	16QAM	50	50	19.90	19.50	19.50		20.5
20	16QAM	100	0	19.75	19.36	19.43		20.5
20	64QAM	1	0	20.95	20.75	20.67		21.5
20	64QAM	1	49	20.92	20.69	20.56		21.5
20	64QAM	1	99	20.86	20.54	20.47		21.5
20	64QAM	50	0	19.77	19.64	19.53		20.5
20	64QAM	50	24	19.65	19.50	19.39		20.5
20	64QAM	50	50	19.60	19.37	19.31		20.5
20	64QAM	100	0	19.45	19.28	19.23		20.5
Channel				37625	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	21.57	21.67	21.33		22
15	QPSK	1	37	21.45	21.52	21.25		22
15	QPSK	1	74	21.41	21.45	21.26		22
15	QPSK	36	0	20.64	20.73	20.48		21
15	QPSK	36	20	20.45	20.63	20.34		21
15	QPSK	36	39	20.46	20.54	20.30		21
15	QPSK	75	0	20.40	20.47	20.15		21
15	16QAM	1	0	20.87	20.78	20.70		21.5
15	16QAM	1	37	20.82	20.69	20.64		21.5
15	16QAM	1	74	20.74	20.64	20.46		21.5
15	16QAM	36	0	19.88	19.68	19.56		20.5
15	16QAM	36	20	19.89	19.57	19.54		20.5
15	16QAM	36	39	19.83	19.43	19.48		20.5
15	16QAM	75	0	19.73	19.34	19.40		20.5
15	64QAM	1	0	20.94	20.68	20.81		21.5
15	64QAM	1	37	20.90	20.63	20.48		21.5
15	64QAM	1	74	20.81	20.48	20.43		21.5
15	64QAM	36	0	19.74	19.57	19.50		20.5
15	64QAM	36	20	19.62	19.42	19.36		20.5
15	64QAM	36	39	19.59	19.30	19.27		20.5
15	64QAM	75	0	19.44	19.21	19.19		20.5
Channel				37800	38000	38200		
Frequency (MHz)				2578	2595	2615		
10	QPSK	1	0	21.55	21.60	21.31		22
10	QPSK	1	25	21.43	21.51	21.19		22
10	QPSK	1	49	21.33	21.40	21.21		22
10	QPSK	25	0	20.61	20.67	20.42		21.5
10	QPSK	25	12	20.39	20.57	20.29		21.5
10	QPSK	25	25	20.43	20.52	20.25		21.5
10	QPSK	50	0	20.34	20.40	20.13		21.5
10	16QAM	1	0	20.79	20.76	20.63		21.5
10	16QAM	1	25	20.75	20.65	20.59		21.5
10	16QAM	1	49	20.71	20.63	20.40		21.5
10	16QAM	25	0	19.85	19.64	19.52		20.5
10	16QAM	25	12	19.81	19.55	19.52		20.5
10	16QAM	25	25	19.75	19.40	19.42		20.5
10	64QAM	1	0	20.89	20.62	20.56		21.5
10	64QAM	1	25	20.89	20.57	20.41		21.5
10	64QAM	1	49	20.77	20.43	20.39		21.5
10	64QAM	25	0	19.72	19.50	19.43		20.5
10	64QAM	25	12	19.59	19.37	19.30		20.5
10	64QAM	25	25	19.55	19.23	19.20		20.5
10	64QAM	50	0	19.36	19.15	19.13		20.5
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	21.50	21.55	21.24		22
5	QPSK	1	12	21.37	21.49	21.14		22
5	QPSK	1	24	21.27	21.34	21.14		22
5	QPSK	12	0	20.55	20.60	20.36		21.5
5	QPSK	12	7	20.32	20.55	20.27		21.5
5	QPSK	12	13	20.35	20.49	20.24		21.5
5	QPSK	25	0	20.31	20.34	20.06		21.5
5	16QAM	1	0	20.72	20.72	20.58		21.5
5	16QAM	1	12	20.73	20.62	20.56		21.5
5	16QAM	1	24	20.68	20.60	20.39		21.5
5	16QAM	12	0	19.82	19.57	19.47		20.5
5	16QAM	12	7	19.78	19.50	19.51		20.5
5	16QAM	12	13	19.68	19.36	19.39		20.5
5	16QAM	25	0	19.64	19.26	19.32		20.5
5	64QAM	1	0	20.83	20.59	20.50		21.5
5	64QAM	1	12	20.86	20.55	20.37		21.5
5	64QAM	1	24	20.75	20.38	20.35		21.5
5	64QAM	12	0	19.68	19.46	19.41		20.5
5	64QAM	12	7	19.52	19.32	19.27		20.5
5	64QAM	12	13	19.54	19.21	19.14		20.5
5	64QAM	25	0	19.33	19.09	19.08		20.5

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		21.93			22.5
10	QPSK	1	25		21.83			22.5
10	QPSK	1	49		21.72			22.5
10	QPSK	25	0		20.93			21.5
10	QPSK	25	12		20.84			21.5
10	QPSK	25	25		20.78			21.5
10	QPSK	50	0		20.78			21.5
10	16QAM	1	0		21.04			21.5
10	16QAM	1	25		20.89			21.5
10	16QAM	1	49		20.82			21.5
10	16QAM	25	0		19.97			20.5
10	16QAM	25	12		19.83			20.5
10	16QAM	25	25		19.77			20.5
10	16QAM	50	0		19.62			20.5
10	64QAM	1	0		20.99			21.5
10	64QAM	1	25		20.84			21.5
10	64QAM	1	49		20.71			21.5
10	64QAM	25	0		19.91			20.5
10	64QAM	25	12		19.82			20.5
10	64QAM	25	25		19.75			20.5
10	64QAM	50	0		19.72			20.5
Channel				38725	38750	38775		
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	21.67	21.88	21.75		22.5
5	QPSK	1	12	21.52	21.75	21.60		22.5
5	QPSK	1	24	21.53	21.68	21.58		22.5
5	QPSK	12	0	20.75	20.89	20.81		21.5
5	QPSK	12	7	20.59	20.77	20.64		21.5
5	QPSK	12	13	20.54	20.71	20.65		21.5
5	QPSK	25	0	20.56	20.76	20.55		21.5
5	16QAM	1	0	20.76	21.00	20.89		21.5
5	16QAM	1	12	20.57	20.95	20.60		21.5
5	16QAM	1	24	20.50	20.78	20.61		21.5
5	16QAM	12	0	19.67	19.91	19.77		20.5
5	16QAM	12	7	19.63	19.83	19.65		20.5
5	16QAM	12	13	19.57	19.68	19.60		20.5
5	16QAM	25	0	19.36	19.57	19.39		20.5
5	64QAM	1	0	20.70	20.93	20.78		21.5
5	64QAM	1	12	20.52	20.76	20.63		21.5
5	64QAM	1	24	20.51	20.69	20.58		21.5
5	64QAM	12	0	19.65	19.88	19.74		20.5
5	64QAM	12	7	19.61	19.74	19.66		20.5
5	64QAM	12	13	19.49	19.64	19.50		20.5
5	64QAM	25	0	19.53	19.63	19.55		20.5

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		21.26			23
10	QPSK	1	25		22.07			23
10	QPSK	1	49		22.06			23
10	QPSK	25	0		21.29			22
10	QPSK	25	12		21.26			22
10	QPSK	25	25		21.20			22
10	QPSK	50	0		21.08			22

LTE Band 41

BW (MHz)	Modulation	RB Size	RB Offset	for IC Low channel	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39790	39750	40185	40620	41055	41490	
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.39	22.36	22.57	22.47	22.30	22.86	23.5
20	QPSK	1	49	22.23	22.21	22.43	22.34	22.22	22.69	23.5
20	QPSK	1	99	22.11	22.06	22.32	22.12	22.07	22.43	23.5
20	QPSK	50	0	20.31	20.36	20.35	20.19	20.09	20.38	21.5
20	QPSK	50	24	20.34	20.35	20.27	20.08	20.04	20.11	21.5
20	QPSK	50	50	20.29	20.35	20.12	20.01	19.99	20.09	21.5
20	QPSK	100	0	20.36	20.32	20.31	20.15	20.12	20.38	21.5
20	16QAM	1	0	20.56	20.78	20.43	20.15	20.17	20.89	21.5
20	16QAM	1	49	20.53	20.69	20.37	20.09	20.15	20.78	21.5
20	16QAM	1	99	20.37	20.53	20.24	20.03	20.07	20.73	21.5
20	16QAM	50	0	19.64	19.58	19.55	19.27	19.07	19.93	21.5
20	16QAM	50	24	19.62	19.54	19.49	19.21	19.05	19.84	21.5
20	16QAM	50	50	19.53	19.38	19.44	19.16	19.03	19.77	21.5
20	16QAM	100	0	19.66	19.54	19.56	19.23	19.08	19.83	21.5
20	64QAM	1	0	20.47	20.64	20.42	20.13	20.13	20.73	21.5
20	64QAM	1	49	20.43	20.59	20.38	20.09	20.15	20.69	21.5
20	64QAM	1	99	20.39	20.54	20.26	20.04	20.13	20.53	21.5
20	64QAM	50	0	19.73	19.64	19.58	19.38	19.07	19.89	20.5
20	64QAM	50	24	19.58	19.52	19.43	19.17	19.03	19.81	20.5
20	64QAM	50	50	19.55	19.37	19.42	19.14	19.01	19.70	20.5
20	64QAM	100	0	19.69	19.58	19.56	19.34	19.04	19.88	20.5
Channel				39765	39725	40173	40620	41088	41515	
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.37	22.34	22.55	22.45	22.28	22.84	23.5
15	QPSK	1	37	22.21	22.19	22.41	22.32	22.20	22.67	23.5
15	QPSK	1	74	22.09	22.04	22.30	22.10	22.05	22.41	23.5
15	QPSK	36	0	20.23	20.34	20.29	20.17	20.07	20.36	21.5
15	QPSK	36	20	20.32	20.33	20.25	20.06	20.02	20.09	21.5
15	QPSK	36	39	20.27	20.33	20.10	19.99	19.97	20.07	21.5
15	QPSK	75	0	20.34	20.30	20.29	20.13	20.10	20.37	21.5
15	16QAM	1	0	20.54	20.76	20.41	20.13	20.15	20.87	21.5
15	16QAM	1	37	20.51	20.67	20.35	20.07	20.13	20.76	21.5
15	16QAM	1	74	20.35	20.51	20.22	20.01	20.05	20.71	21.5
15	16QAM	36	0	19.62	19.56	19.53	19.25	19.06	19.91	21.5
15	16QAM	36	20	19.60	19.52	19.47	19.19	19.03	19.82	21.5
15	16QAM	36	39	19.51	19.36	19.42	19.14	19.01	19.75	21.5
15	16QAM	75	0	19.64	19.52	19.54	19.21	19.06	19.81	21.5
15	64QAM	1	0	20.45	20.62	20.40	20.11	20.11	20.71	21.5
15	64QAM	1	37	20.41	20.57	20.36	20.07	20.13	20.67	21.5
15	64QAM	1	74	20.37	20.52	20.24	20.02	20.11	20.51	21.5
15	64QAM	36	0	19.71	19.62	19.56	19.34	19.05	19.87	20.5
15	64QAM	36	20	19.56	19.50	19.41	19.15	19.01	19.79	20.5
15	64QAM	36	39	19.53	19.35	19.40	19.12	18.99	19.68	20.5
15	64QAM	75	0	19.67	19.56	19.54	19.32	19.02	19.86	20.5
Channel				39740	39700	40160	40620	41080	41540	
Frequency (MHz)				2505	2501	2547	2593	2639	2685	
10	QPSK	1	0	22.34	22.31	22.52	22.42	22.25	22.81	23.5
10	QPSK	1	25	22.18	22.16	22.38	22.29	22.17	22.64	23.5
10	QPSK	1	49	22.06	22.01	22.27	22.07	22.02	22.38	23.5
10	QPSK	25	0	20.15	20.31	20.26	20.14	20.04	20.33	21.5
10	QPSK	25	12	20.29	20.30	20.22	20.03	19.99	20.06	21.5
10	QPSK	25	25	20.24	20.30	20.07	19.96	19.94	20.04	21.5
10	QPSK	50	0	20.31	20.27	20.26	20.10	20.07	20.34	21.5
10	16QAM	1	0	20.51	20.73	20.38	20.10	20.12	20.84	21.5
10	16QAM	1	25	20.48	20.64	20.32	20.04	20.10	20.73	21.5
10	16QAM	1	49	20.32	20.48	20.19	19.98	20.02	20.68	21.5
10	16QAM	25	0	19.59	19.53	19.50	19.22	19.02	19.88	21.5
10	16QAM	25	12	19.57	19.49	19.44	19.16	19.00	19.79	21.5
10	16QAM	25	25	19.48	19.33	19.39	19.11	18.98	19.72	21.5
10	64QAM	1	0	20.42	20.59	20.37	20.08	20.08	20.68	21.5
10	64QAM	1	25	20.38	20.54	20.33	20.04	20.10	20.64	21.5
10	64QAM	1	49	20.34	20.49	20.21	19.99	20.08	20.48	21.5
10	64QAM	25	0	19.68	19.59	19.53	19.31	19.02	19.84	20.5
10	64QAM	25	12	19.53	19.47	19.38	19.12	18.98	19.76	20.5
10	64QAM	25	25	19.50	19.32	19.37	19.09	18.96	19.65	20.5
10	64QAM	50	0	19.64	19.53	19.51	19.29	18.99	19.83	20.5
Channel				39715	39675	40145	40620	41093	41565	
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	22.32	22.29	22.50	22.40	22.23	22.79	23.5
5	QPSK	1	12	22.16	22.14	22.36	22.27	22.15	22.62	23.5
5	QPSK	1	24	22.04	21.99	22.25	22.05	22.00	22.36	23.5
5	QPSK	12	0	20.13	20.29	20.24	20.12	20.02	20.31	21.5
5	QPSK	12	7	20.27	20.28	20.20	20.01	19.97	20.04	21.5
5	QPSK	12	13	20.22	20.28	20.05	19.84	19.92	20.02	21.5
5	QPSK	25	0	20.29	20.25	20.24	20.08	20.05	20.32	21.5
5	16QAM	1	0	20.49	20.71	20.36	20.08	20.10	20.82	21.5
5	16QAM	1	12	20.46	20.62	20.30	20.02	20.08	20.71	21.5
5	16QAM	1	24	20.30	20.46	20.17	19.96	20.00	20.66	21.5
5	16QAM	12	0	19.57	19.51	19.48	19.20	19.00	19.86	21.5
5	16QAM	12	7	19.55	19.47	19.42	19.14	18.98	19.77	21.5
5	16QAM	12	13	19.46	19.31	19.37	19.09	18.96	19.70	21.5
5	16QAM	25	0	19.59	19.47	19.49	19.16	19.01	19.75	21.5
5	64QAM	1	0	20.40	20.57	20.35	20.06	20.06	20.66	21.5
5	64QAM	1	12	20.36	20.52	20.31	20.02	20.08	20.62	21.5
5	64QAM	1	24	20.32	20.47	20.19	19.97	20.06	20.46	21.5
5	64QAM	12	0	19.66	19.57	19.51	19.29	19.00	19.82	20.5
5	64QAM	12	7	19.51	19.45	19.36	19.10	18.96	19.74	20.5
5	64QAM	12	13	19.48	19.30	19.35	19.07	18.94	19.63	20.5
5	64QAM	25	0	19.62	19.51	19.49	19.27	18.97	19.81	20.5

2.4GHz WLAN

	Mode	Channel	Frequency (MHz)	Peak power (dBm)	Tune-Up Limit	Power Setting
2.4GHz WLAN	802.11b 1Mbps	CH 1	2412	20.58	21.00	14.00
		CH 6	2437	15.40	15.50	14.00
		CH 11	2462	16.66	16.90	14.00
	802.11g 6Mbps	CH 1	2412	15.44	15.50	14.00
		CH 6	2437	13.75	14.00	14.00
		CH 11	2462	14.87	15.00	14.00
	802.11n-HT20 MCS0	CH 1	2412	15.28	15.50	14.00
		CH 6	2437	13.68	14.00	14.00
		CH 11	2462	14.79	15.00	14.00
	802.11n-HT40 MCS0	CH 3	2422	16.90	17.00	14.00
		CH 6	2437	14.95	15.00	14.00
		CH 9	2452	14.64	15.00	14.00

5.2GHz WLAN

	Mode	Channel	Frequency (MHz)	Peak power (dBm)	Tune-Up Limit	Power Setting
5.2GHz WLAN	802.11a 6Mbps	CH 36	5180	14.54	15.00	14.00
		CH 40	5200	14.27	14.50	14.00
		CH 48	5240	14.64	15.00	14.00
	802.11n-HT20 MCS0	CH 36	5180	13.97	14.00	14.00
		CH 40	5200	12.65	13.00	14.00
		CH 48	5240	14.67	15.00	14.00
	802.11n-HT40 MCS0	CH 38	5190	14.23	14.50	14.00
		CH 46	5230	14.99	15.00	14.00
	802.11ac-VHT20 MCS0	CH 36	5180	13.89	14.00	14.00
		CH 40	5200	12.64	13.00	14.00
		CH 48	5240	14.53	15.00	14.00
	802.11ac-VHT40 MCS0	CH 38	5190	14.26	14.50	14.00
		CH 46	5230	15.04	15.50	14.00
	802.11ac-VHT80 MCS0	CH 42	5210	15.19	15.50	14.00

5.8GHz WLAN

	Mode	Channel	Frequency (MHz)	Peak power (dBm)	Tune-Up Limit	Power Setting	
5.8GHz WLAN	802.11a MCS0	CH 149	5745	22.13	22.50	14.00	
		CH 157	5785	22.09	22.50	14.00	
		CH 165	5825	21.81	22.00	14.00	
	802.11n-HT20 MCS0	CH 149	5745	22.11	22.50	14.00	
		CH 157	5785	21.81	22.00	14.00	
		CH 165	5825	21.43	21.50	14.00	
	802.11n-HT40 MCS0	CH 151	5755	22.32	22.50	14.00	
		CH 159	5795	22.34	22.50	14.00	
			CH 149	5745	22.09	22.50	14.00

	802.11ac-VHT20 MCS0	CH 157	5785	21.90	22.00	14.00
		CH 165	5825	21.50	21.50	14.00
	802.11ac-VHT40 MCS0	CH 151	5755	22.43	23.00	14.00
		CH 159	5795	22.41	23.00	14.00
	802.11ac-VHT80 MCS0	CH 155	5775	22.03	22.50	14.00

Mode	Channel	Frequency (MHz)	Peak power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	5.75	5.06	4.88
	CH 39	2441	5.90	5.14	4.82
	CH 78	2480	8.31	8.31	8.05
Tune-up Limit			8.50	8.50	8.50

Mode	Channel	Frequency (MHz)	Peak power (dBm)
			GFSK
LE	CH 00	2402	5.32
	CH 19	2440	5.22
	CH 39	2480	5.67
Tune-up Limit			6.00

CA_41C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	22.44	23.5
40620	40521	40719	QPSK	1	0	0	0	1	0	22.55	23.5
41490	41292	41490	QPSK	1	0	0	0	1	0	22.67	23.5

2CC LTE Downlink												
Configure	CA Configuration	PCC					SCC				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Ofs)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Inter-band	CA_4A-12A	4	20	20050	1720	QPSK/1/0	12	5	5155	743.5	19.63	19.77
	CA_2A-4A	2	20	18700	1860	QPSK/1/0	4	20	20050	1720	19.48	19.63
	CA_4A-4A	4	20	20050	1720	QPSK/1/0	4	20	20050	1720	19.58	19.77
	CA_4A-5A	4	20	20050	1720	QPSK/1/0	5	10	2600	889	19.65	19.77
	CA_4A-29A	4	20	20050	1720	QPSK/1/0	29	10	9720	723	19.68	19.77
	CA_4A-13A	4	20	20050	1720	QPSK/1/0	13	10	5230	751	19.49	19.77
	CA_2A-12A	2	20	18700	1860	QPSK/1/0	12	5	5155	743.5	19.46	19.63
	CA-2A-2A	2	20	18700	1860	QPSK/1/0	2	20	18700	1860	19.46	19.63
	CA_2A-5A	2	20	18700	1860	QPSK/1/0	5	10	2600	889	19.40	19.63
	CA_2A-29A	2	20	18700	1860	QPSK/1/0	29	10	9720	723	19.50	19.63
	CA_66A-66A	66	20	132072	1720	QPSK/1/0	66	20	67236	2190	19.69	19.93
	CA_2A-66A	2	20	18700	1860	QPSK/1/0	66	20	67236	2190	19.51	19.63
	CA_12A-66A	12	5	23035	701.5	QPSK/1/0	66	20	67236	2190	21.08	21.18
	CA_5A-66A	5	10	20450	829	QPSK/1/0	66	20	67236	2190	22.73	22.89
	CA_5A-5A	5	10	20450	829	QPSK/1/0	5	10	2600	889	22.78	22.89
	CA_5A-12A	5	10	20450	829	QPSK/1/0	12	5	5155	743.5	22.65	22.89
	CA_2A-5B	2	20	18700	1860	QPSK/1/0	5	10	20450	829	19.40	19.63
	CA_2A-66B	2	20	18700	1860	QPSK/1/0	66	10	66936	2160	19.58	19.63
	CA_2A-66C	2	20	18700	1860	QPSK/1/0	66	20	66985	2164.9	19.47	19.63
	CA_66A-66C	66	20	132072	1720	QPSK/1/0	66	20	66985	2164.9	19.66	19.93
	CA_5B-66A	5	10	20450	829	QPSK/1/0	66	20	67236	2190	22.72	22.89
	CA_12A-66C	12	5	23035	701.5	QPSK/1/0	66	20	66985	2164.9	21.13	21.18
	CA_5A-66B	5	10	20450	829	QPSK/1/0	66	10	66936	2160	22.69	22.89
	CA_5A-66C	5	10	20450	829	QPSK/1/0	66	20	66985	2164.9	22.63	22.89
	CA_5A-12B	5	10	20450	829	QPSK/1/0	12	10	5120	740	22.70	22.89
	CA_41A-41C	41	20	40620	2593	QPSK/1/0	41	20	40719	2602.9	22.41	22.47
	CA_2C	2	20	18801	1870.1	QPSK/1/0	2	20	999	1969.9	19.45	19.63
	CA_66B	66	10	132373	1750.1	QPSK/1/0	66	10	66936	2160	19.80	19.93
	CA_66C	66	20	132323	1745.1	QPSK/1/0	66	20	66985	2164.9	19.89	19.93
	CA_12B	12	5	23048	702.8	QPSK/1/0	12	10	5120	740	20.97	21.18
	CA_5B	5	10	20450	829	QPSK/1/0	5	10	2600	889	22.80	22.89
	CA_41C	41	20	40521	2583.1	QPSK/1/0	41	20	40719	2602.9	22.59	22.47
CA_41A-41A	41	20	40620	2593	QPSK/1/0	41	20	40620	2593	22.47	22.47	
CA_25A-25A	25	20	26140	1860	QPSK/1/0	25	20	8590	1985	19.99	20.26	
CA_4A-12B	4	20	20175	1732.5	QPSK/1/0	12	10	5120	740	19.66	19.77	

3CC LTE Downlink																
Configure	CA Configuration	PCC					SCC1				SCC2				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Ofs)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Inter-band	CA_41D	41	20	40422	2573.2	QPSK/1/0	41	20	40620	2593	41	20	40818	2612.8	22.17	22.47
	CA_2A-4A-12A	2	20	18700	1860	QPSK/1/0	4	20	20050	1720	12	5	5035	731.5	19.37	19.63
	CA_4A-4A-12A	4	20	20050	1720	QPSK/1/0	4	20	20050	1720	12	5	5035	731.5	19.62	19.77
	CA_2A-4A-4A	2	20	18700	1860	QPSK/1/0	4	20	20050	1720	4	20	20300	1745	19.47	19.63
	CA_2A-4A-5A	2	20	18700	1860	QPSK/1/0	4	20	20300	1745	5	10	2450	874	19.41	19.63
	CA_4A-5A-12A	4	20	20050	1720	QPSK/1/0	5	10	20450	829	12	5	5035	731.5	19.58	19.77
	CA_4A-4A-5A	4	20	20050	1720	QPSK/1/0	4	20	20050	1720	5	10	2450	874	19.69	19.77
	CA_4A-4A-13A	4	20	20050	1720	QPSK/1/0	4	20	20300	1745	13	10	5230	751	19.55	19.77
	CA_2A-2A-12A	2	20	18700	1860	QPSK/1/0	2	20	1100	1980	12	5	5035	731.5	19.52	19.63
	CA_2A-5A-66A	2	20	18700	1860	QPSK/1/0	5	10	20450	829	66	20	66536	2120	19.38	19.63
	CA_2A-2A-66A	2	20	18700	1860	QPSK/1/0	2	20	1100	1980	66	20	66536	2120	19.44	19.63
	CA_2A-4A-12A	2	20	18700	1860	QPSK/1/0	4	20	20050	1720	12	5	5035	731.5	19.55	19.63
	CA_2A-2A-4A	2	20	18700	1860	QPSK/1/0	2	20	1100	1980	4	20	20050	1720	19.39	19.63
	CA_2A-2A-5A	2	20	18700	1860	QPSK/1/0	2	20	1100	1980	5	10	2450	874	19.51	19.63
	CA_2A-12A-66A	2	20	18700	1860	QPSK/1/0	12	5	5035	731.5	66	20	66536	2120	19.45	19.63
	CA_12A-66A-66A	12	5	23035	701.5	QPSK/1/0	66	20	66536	2120	66	20	67236	2190	20.97	19.93
	CA_2A-66A-66A	2	20	18700	1860	QPSK/1/0	66	20	66536	2120	66	20	67236	2190	19.47	19.63
	CA_5A-66A-66A	5	10	20450	829	QPSK/1/0	66	20	66536	2120	66	20	67236	2190	22.71	22.89
	CA_5A-5A-66A	5	10	20450	829	QPSK/1/0	5	10	2600	889	66	20	66536	2120	22.81	22.89