



REPORT No . : SZ21040148S01

Annex E2 Conducted Reduction Power

Conducted Power

Project No.:	SZZ1040148	Applicant:			Sonim	Model Name:			N/A
GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (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		27.98	28.07	28.03	28.50	18.98	19.07	19.03	19.50
GPRS 1 Tx slot		27.76	27.81	27.86	28.50	18.76	18.81	18.86	19.50
GPRS 2 Tx slots		25.66	25.76	25.66	25.80	19.66	19.76	19.66	19.80
GPRS 3 Tx slots		23.44	23.52	23.41	24.00	19.18	19.26	19.15	19.74
GPRS 4 Tx slots		22.42	22.36	22.32	22.80	19.42	19.36	19.32	19.80
EDGE 1 Tx slot		26.62	26.71	26.55	27.00	17.62	17.71	17.55	18.00
EDGE 2 Tx slots		24.21	24.27	24.19	25.00	18.21	18.27	18.19	19.00
EDGE 3 Tx slots		22.08	22.05	21.97	22.50	17.82	17.79	17.71	18.24
EDGE 4 Tx slots		20.87	20.79	20.80	21.50	17.87	17.79	17.80	18.50

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (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		23.91	23.96	23.85	24.50	14.91	14.96	14.85	15.50
GPRS 1 Tx slot		24.01	23.86	23.72	24.50	15.01	14.86	14.72	15.50
GPRS 2 Tx slots		22.43	22.21	22.11	23.00	16.43	16.21	16.11	17.00
GPRS 3 Tx slots		20.35	20.09	20.03	21.00	16.09	15.83	15.77	16.74
GPRS 4 Tx slots		19.44	19.16	19.04	20.00	16.44	16.16	16.04	17.00
EDGE 1 Tx slot		23.81	23.53	23.36	24.00	14.81	14.53	14.36	15.00
EDGE 2 Tx slots		23.33	23.14	22.86	24.00	17.33	17.14	16.86	18.00
EDGE 3 Tx slots		20.79	20.54	20.61	21.50	16.53	16.28	16.35	17.24
EDGE 4 Tx slots		19.46	19.31	19.20	20.00	16.46	16.31	16.20	17.00

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	16.18	16.24	16.15	16.50	16.27	16.28	15.95	17.00	18.42	18.61	18.48	19.00
3GPP Rel 6	HSDPA Subtest-1	15.51	15.54	15.47	16.00	15.78	15.49	14.91	16.00	16.88	17.14	17.31	17.50
3GPP Rel 6	HSDPA Subtest-2	15.49	15.55	15.53	16.00	15.75	15.52	14.65	16.00	17.10	17.17	17.39	18.00
3GPP Rel 6	HSDPA Subtest-3	15.10	15.09	14.97	15.50	15.27	15.07	14.40	15.50	16.64	16.64	16.92	17.50
3GPP Rel 6	HSDPA Subtest-4	15.03	14.99	14.98	15.50	15.35	14.98	14.43	15.50	16.68	16.67	16.96	17.50
3GPP Rel 6	HSUPA Subtest-1	15.45	15.55	15.47	16.00	15.87	15.59	14.97	16.00	16.95	17.19	18.15	18.50
3GPP Rel 6	HSUPA Subtest-2	14.96	15.04	14.96	15.50	15.39	15.16	14.46	16.00	16.44	16.80	17.82	18.00
3GPP Rel 6	HSUPA Subtest-3	15.53	15.58	15.46	16.00	15.84	15.52	15.00	16.00	16.88	17.05	18.10	18.50
3GPP Rel 6	HSUPA Subtest-4	15.50	15.53	15.50	16.00	15.85	15.60	15.01	16.00	16.95	17.18	18.08	18.50
3GPP Rel 6	HSUPA Subtest-5	15.53	15.56	15.48	16.00	15.88	15.61	14.98	16.00	16.96	17.23	18.06	18.50
3GPP Rel 7	HSUPA+ (16QAM) Subtest-1	15.56	15.65	15.50	16.00	15.85	15.66	14.81	16.00	17.17	17.36	18.04	18.50

LTE Band 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	16.84	16.87	16.81	17.9
20	QPSK	1	49	16.82	16.76	16.69	
20	QPSK	1	99	16.76	16.72	16.70	
20	QPSK	50	0	15.92	16.01	15.94	16.5
20	QPSK	50	24	15.93	15.98	15.98	
20	QPSK	50	50	15.98	15.94	16.00	
20	QPSK	100	0	15.91	16.00	15.96	17
20	16QAM	1	0	15.97	15.97	15.99	
20	16QAM	1	49	15.81	16.11	16.07	
20	16QAM	1	99	16.06	15.91	16.31	16.5
20	16QAM	50	0	15.99	15.96	15.94	
20	16QAM	50	24	15.95	16.00	16.01	
20	16QAM	50	50	16.03	16.00	16.07	16.5
20	16QAM	100	0	16.06	16.07	15.94	
20	64QAM	1	0	16.01	16.20	15.94	16.5
20	64QAM	1	49	15.96	16.14	16.05	
20	64QAM	1	99	15.91	16.24	16.24	
20	64QAM	50	0	16.01	15.93	15.98	16.5
20	64QAM	50	24	16.04	15.98	16.03	
20	64QAM	50	50	16.03	16.04	15.98	
20	64QAM	100	0	15.91	15.88	15.89	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	16.65	16.68	16.59	17.9
15	QPSK	1	37	16.44	16.80	16.68	
15	QPSK	1	74	16.81	16.73	16.81	
15	QPSK	36	0	15.78	15.87	15.86	16.5
15	QPSK	36	20	15.77	15.96	15.93	
15	QPSK	36	39	15.89	15.90	15.87	
15	QPSK	75	0	15.81	15.87	15.83	17
15	16QAM	1	0	15.90	15.98	15.92	
15	16QAM	1	37	16.03	16.06	15.92	
15	16QAM	1	74	15.98	16.10	16.10	16.5
15	16QAM	36	0	15.77	15.82	15.85	
15	16QAM	36	20	15.86	15.79	15.92	
15	16QAM	36	39	15.91	16.00	15.97	16.5
15	16QAM	75	0	15.78	15.80	15.89	
15	64QAM	1	0	15.98	15.74	15.80	
15	64QAM	1	37	15.97	15.78	16.20	16.5
15	64QAM	1	74	15.86	15.90	16.05	
15	64QAM	36	0	15.71	15.88	15.76	
15	64QAM	36	20	15.91	15.93	15.83	16.5
15	64QAM	36	39	15.79	15.84	15.93	
15	64QAM	75	0	15.78	15.85	15.84	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	16.62	16.61	16.71	17.9
10	QPSK	1	25	16.73	16.83	16.71	
10	QPSK	1	49	16.62	16.70	16.62	
10	QPSK	25	0	15.89	15.90	15.86	16.5
10	QPSK	25	12	15.85	15.97	15.90	
10	QPSK	25	25	15.76	15.89	15.85	
10	QPSK	50	0	15.82	15.91	15.89	17
10	16QAM	1	0	16.30	16.23	16.22	
10	16QAM	1	25	15.99	15.95	16.02	
10	16QAM	1	49	15.94	16.02	15.81	16.5
10	16QAM	25	0	15.84	15.83	15.80	
10	16QAM	25	12	16.00	15.80	15.80	
10	16QAM	25	25	15.80	16.00	16.10	16.5
10	16QAM	50	0	16.37	16.30	16.34	
10	64QAM	1	0	15.88	15.93	15.93	
10	64QAM	1	25	15.91	15.96	16.00	16.5
10	64QAM	1	49	15.58	15.71	15.68	
10	64QAM	25	0	15.88	15.92	15.93	
10	64QAM	25	12	15.91	15.89	15.90	16.5
10	64QAM	25	25	15.84	15.62	15.84	
10	64QAM	50	0	15.85	15.85	15.82	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.76	16.81	16.75	17.9
5	QPSK	1	12	16.75	16.70	16.73	
5	QPSK	1	24	16.71	16.79	16.80	
5	QPSK	12	0	15.88	15.79	15.86	16.5
5	QPSK	12	7	15.89	15.94	15.86	
5	QPSK	12	13	15.88	15.87	15.90	
5	QPSK	25	0	15.87	15.85	15.87	17
5	16QAM	1	0	16.00	15.90	16.28	
5	16QAM	1	12	15.98	15.91	16.28	
5	16QAM	1	24	16.01	15.88	16.27	16.5
5	16QAM	12	0	16.10	16.24	16.10	
5	16QAM	12	7	16.00	16.00	15.80	
5	16QAM	12	13	15.80	16.13	15.90	16.5
5	16QAM	25	0	15.90	16.36	16.34	
5	64QAM	1	0	16.10	15.82	15.87	
5	64QAM	1	12	16.26	15.92	16.03	16.5
5	64QAM	1	24	16.27	15.91	15.93	
5	64QAM	12	0	15.92	15.85	15.84	
5	64QAM	12	7	15.98	15.82	15.82	16.5
5	64QAM	12	13	15.95	15.91	15.89	
5	64QAM	25	0	16.02	15.82	15.89	
Channel				18615	18900	19185	Tune-up

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	16.62	16.70	16.69	17
20	QPSK	1	49	16.48	16.56	16.55	
20	QPSK	1	99	16.40	16.53	16.65	
20	QPSK	50	0	15.69	15.82	15.79	16.5
20	QPSK	50	24	15.69	15.77	15.77	
20	QPSK	50	50	15.58	15.69	15.70	
20	QPSK	100	0	15.68	15.72	15.79	16.5
20	16QAM	1	0	15.55	15.85	15.72	
20	16QAM	1	49	15.70	15.47	15.61	
20	16QAM	1	99	15.49	15.71	15.55	16.5
20	16QAM	50	0	15.68	15.61	15.75	
20	16QAM	50	24	15.94	16.05	15.94	
20	16QAM	50	50	15.90	15.91	15.91	16.5
20	16QAM	100	0	15.92	16.00	16.01	
20	64QAM	1	0	15.66	15.77	15.99	16.5
20	64QAM	1	49	15.70	15.63	15.51	
20	64QAM	1	99	15.97	15.54	16.01	
20	64QAM	50	0	15.67	15.76	15.71	16.5
20	64QAM	50	24	15.69	15.80	15.74	
20	64QAM	50	50	15.73	15.68	15.70	
20	64QAM	100	0	15.76	15.74	15.83	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	16.49	16.53	16.63	17
15	QPSK	1	37	16.53	16.62	16.54	
15	QPSK	1	74	16.40	16.62	16.65	
15	QPSK	36	0	15.63	15.70	15.73	16.5
15	QPSK	36	20	15.67	15.80	15.76	
15	QPSK	36	39	15.72	15.71	15.80	
15	QPSK	75	0	15.67	15.69	15.70	16.5
15	16QAM	1	0	15.61	15.83	15.55	
15	16QAM	1	37	15.69	15.69	15.53	
15	16QAM	1	74	15.55	15.85	15.64	16.5
15	16QAM	36	0	15.56	15.58	15.77	
15	16QAM	36	20	15.51	15.58	15.64	
15	16QAM	36	39	15.47	15.56	15.62	16.5
15	16QAM	75	0	15.58	15.59	15.68	
15	64QAM	1	0	15.53	15.84	15.89	
15	64QAM	1	37	15.95	15.71	15.77	16.5
15	64QAM	1	74	15.99	15.70	15.74	
15	64QAM	36	0	15.64	15.71	15.75	
15	64QAM	36	20	15.70	15.72	15.74	16.5
15	64QAM	36	39	15.73	15.69	15.71	
15	64QAM	75	0	15.66	15.77	15.70	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	16.41	16.60	16.43	17
10	QPSK	1	25	16.39	16.52	16.53	
10	QPSK	1	49	16.47	16.30	16.53	
10	QPSK	25	0	15.46	15.68	15.70	16.5
10	QPSK	25	12	15.58	15.64	15.68	
10	QPSK	25	25	15.47	15.58	15.65	
10	QPSK	50	0	15.53	15.63	15.55	16.5
10	16QAM	1	0	15.52	15.67	15.43	
10	16QAM	1	25	15.79	15.53	15.85	
10	16QAM	1	49	15.86	15.76	15.75	16.5
10	16QAM	25	0	15.52	15.51	15.50	
10	16QAM	25	12	15.44	15.54	15.51	
10	16QAM	25	25	15.78	15.69	15.78	16.5
10	16QAM	50	0	15.72	15.76	15.88	

3	QPSK	1	14	16.81	16.68	16.68	16.5
3	QPSK	8	0	15.76	15.71	15.73	
3	QPSK	8	4	15.82	15.76	15.77	
3	QPSK	8	7	15.82	15.76	15.72	
3	QPSK	15	0	15.74	15.82	15.75	17
3	16QAM	1	0	15.90	15.81	15.75	
3	16QAM	1	8	15.94	15.88	15.84	
3	16QAM	1	14	15.87	15.84	15.72	
3	16QAM	8	0	16.30	16.43	16.35	16.5
3	16QAM	8	4	16.37	16.34	16.40	
3	16QAM	8	7	16.27	16.32	16.35	
3	16QAM	15	0	16.30	16.34	16.29	
3	64QAM	1	0	15.83	15.76	15.79	16.5
3	64QAM	1	8	16.25	16.24	15.84	
3	64QAM	1	14	15.86	16.22	15.86	
3	64QAM	8	0	15.78	15.80	15.64	
3	64QAM	8	4	15.88	15.78	15.78	16.5
3	64QAM	8	7	15.98	15.87	15.73	
3	64QAM	15	0	15.83	15.83	15.81	
Channel				18607	18900	19193	Tune-up limit (rRm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	16.76	16.79	16.74	17.9
1.4	QPSK	1	3	16.66	16.64	16.63	
1.4	QPSK	1	5	16.63	16.61	16.59	
1.4	QPSK	3	0	16.63	16.63	16.59	
1.4	QPSK	3	1	16.67	16.64	16.62	
1.4	QPSK	3	3	16.69	16.73	16.62	
1.4	QPSK	6	0	15.72	15.70	15.69	16.5
1.4	16QAM	1	0	15.75	15.75	15.69	17
1.4	16QAM	1	3	15.71	15.91	15.89	
1.4	16QAM	1	5	15.59	15.79	15.47	
1.4	16QAM	3	0	15.61	15.66	15.63	
1.4	16QAM	3	1	15.79	15.61	15.66	
1.4	16QAM	3	3	15.81	15.78	15.52	
1.4	16QAM	6	0	15.82	15.75	15.70	16.5
1.4	64QAM	1	0	15.70	15.62	15.65	16.5
1.4	64QAM	1	3	15.72	15.93	15.81	
1.4	64QAM	1	5	15.70	16.05	15.64	
1.4	64QAM	3	0	15.73	15.79	15.80	
1.4	64QAM	3	1	15.82	15.79	16.00	
1.4	64QAM	3	3	15.74	15.88	15.65	
1.4	64QAM	6	0	15.79	15.82	15.71	16.5

3	QPSK	1	14	16.32	16.51	16.51	16.5
3	QPSK	8	0	15.52	15.58	15.59	
3	QPSK	8	4	15.58	15.66	15.68	
3	QPSK	8	7	15.54	15.64	15.64	
3	QPSK	15	0	15.54	15.60	15.54	16.5
3	16QAM	1	0	15.62	15.71	15.75	
3	16QAM	1	8	15.84	15.84	15.58	
3	16QAM	1	14	15.75	15.53	15.61	
3	16QAM	8	0	15.54	15.55	15.64	16.5
3	16QAM	8	4	15.64	15.64	15.65	
3	16QAM	8	7	15.86	15.94	15.98	
3	16QAM	15	0	15.86	15.84	15.91	
3	64QAM	1	0	15.53	15.62	15.60	16.5
3	64QAM	1	8	15.72	15.60	15.76	
3	64QAM	1	14	15.53	15.60	15.43	
3	64QAM	8	0	15.51	15.55	15.49	
3	64QAM	8	4	15.63	15.61	15.65	16.5
3	64QAM	8	7	15.57	15.64	15.76	
3	64QAM	15	0	15.53	15.61	15.52	
Channel				19957	20175	20393	Tune-up limit (rRm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	16.18	16.39	16.40	17
1.4	QPSK	1	3	16.52	16.52	16.56	
1.4	QPSK	1	5	16.38	16.47	16.49	
1.4	QPSK	3	0	16.46	16.43	16.42	
1.4	QPSK	3	1	16.42	16.52	16.57	
1.4	QPSK	3	3	16.41	16.48	16.47	
1.4	QPSK	6	0	15.57	15.59	15.55	16.5
1.4	16QAM	1	0	15.51	15.98	15.64	16.5
1.4	16QAM	1	3	15.64	15.72	15.76	
1.4	16QAM	1	5	15.70	15.86	15.66	
1.4	16QAM	3	0	15.73	15.77	15.68	
1.4	16QAM	3	1	15.74	15.77	15.79	
1.4	16QAM	3	3	15.73	15.85	15.74	
1.4	16QAM	6	0	15.64	15.65	15.56	16.5
1.4	64QAM	1	0	15.42	15.36	15.50	16.5
1.4	64QAM	1	3	15.68	15.66	15.78	
1.4	64QAM	1	5	15.59	15.55	15.39	
1.4	64QAM	3	0	15.50	15.48	15.67	
1.4	64QAM	3	1	15.41	15.56	15.53	
1.4	64QAM	3	3	15.47	15.64	15.52	
1.4	64QAM	6	0	15.46	15.47	15.54	16.5

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	18.87	18.88	18.80	19.5
10	QPSK	1	25	18.73	18.76	18.56	
10	QPSK	1	49	18.65	18.77	18.45	
10	QPSK	25	0	18.18	18.20	18.01	18.5
10	QPSK	25	12	17.94	17.96	18.01	
10	QPSK	25	25	17.94	18.05	18.10	
10	QPSK	50	0	18.00	17.88	18.02	18.5
10	16QAM	1	0	18.04	18.23	17.94	
10	16QAM	1	25	18.27	18.30	17.98	
10	16QAM	1	49	18.10	18.16	18.23	18.5
10	16QAM	25	0	18.19	18.20	18.02	
10	16QAM	25	12	18.13	18.21	17.99	
10	16QAM	25	25	18.16	18.09	18.12	18.5
10	16QAM	50	0	18.17	18.08	17.98	
10	64QAM	1	0	18.13	18.23	18.11	
10	64QAM	1	25	18.10	18.30	18.10	18.5
10	64QAM	1	49	17.99	18.21	18.12	
10	64QAM	25	0	18.10	18.21	17.88	
10	64QAM	25	12	18.09	18.26	17.97	18.5
10	64QAM	25	25	18.21	18.10	17.80	
10	64QAM	50	0	18.17	18.13	17.99	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	18.82	18.78	18.76	19.5
5	QPSK	1	12	18.72	18.83	18.67	
5	QPSK	1	24	18.72	18.67	18.67	
5	QPSK	12	0	18.09	18.14	18.00	18.5
5	QPSK	12	7	18.16	18.17	18.09	
5	QPSK	12	13	18.21	18.05	18.00	
5	QPSK	25	0	18.12	18.08	18.00	18.5
5	16QAM	1	0	18.41	18.34	18.10	
5	16QAM	1	12	18.11	18.33	18.09	
5	16QAM	1	24	17.98	18.33	18.16	18.5
5	16QAM	12	0	18.07	18.16	18.15	
5	16QAM	12	7	18.14	18.17	17.99	
5	16QAM	12	13	18.14	18.05	18.10	18.5
5	16QAM	25	0	18.15	18.20	18.15	
5	64QAM	1	0	18.22	18.10	18.21	
5	64QAM	1	12	18.10	18.04	18.18	18.5
5	64QAM	1	24	18.24	18.08	18.02	
5	64QAM	12	0	17.96	18.10	17.90	
5	64QAM	12	7	18.00	18.16	17.94	18.5
5	64QAM	12	13	18.18	18.13	17.70	
5	64QAM	25	0	18.06	18.13	17.74	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	18.51	18.82	18.67	19.5
3	QPSK	1	8	18.77	18.78	18.69	
3	QPSK	1	14	18.78	18.76	18.50	
3	QPSK	8	0	18.02	18.15	18.13	18.5
3	QPSK	8	4	18.16	18.22	18.19	
3	QPSK	8	7	18.11	18.13	18.00	
3	QPSK	15	0	18.09	18.15	18.14	18.5
3	16QAM	1	0	18.11	18.22	18.29	
3	16QAM	1	8	18.04	18.30	18.14	
3	16QAM	1	14	18.09	18.35	18.10	18.5
3	16QAM	8	0	18.05	18.14	17.88	
3	16QAM	8	4	18.21	18.32	17.89	
3	16QAM	8	7	18.13	18.19	17.93	18.5
3	16QAM	15	0	18.07	18.09	17.64	
3	64QAM	1	0	18.02	17.90	18.11	
3	64QAM	1	8	17.90	18.14	17.90	18.5
3	64QAM	1	14	17.92	18.10	17.91	
3	64QAM	8	0	18.02	18.12	18.10	
3	64QAM	8	4	18.24	18.08	18.02	18.5
3	64QAM	8	7	18.19	18.11	18.08	
3	64QAM	15	0	18.08	18.18	17.98	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	18.72	18.79	18.83	19.5
1.4	QPSK	1	3	18.85	18.78	18.85	
1.4	QPSK	1	5	18.74	18.68	18.69	
1.4	QPSK	3	0	18.75	18.81	18.77	18.5
1.4	QPSK	3	1	18.81	18.68	18.78	
1.4	QPSK	3	3	18.82	18.74	18.74	
1.4	QPSK	6	0	18.07	18.06	18.05	18.5
1.4	16QAM	1	0	18.20	18.01	18.18	
1.4	16QAM	1	3	18.00	18.24	18.13	
1.4	16QAM	1	5	18.39	18.07	18.13	18.5
1.4	16QAM	3	0	17.92	17.90	18.04	
1.4	16QAM	3	1	17.95	18.22	18.08	
1.4	16QAM	3	3	18.03	18.14	18.02	18.5
1.4	16QAM	6	0	18.22	18.09	18.13	
1.4	64QAM	1	0	17.75	17.92	17.94	
1.4	64QAM	1	3	18.06	18.07	18.02	18.5
1.4	64QAM	1	5	18.01	18.00	17.88	
1.4	64QAM	3	0	17.67	17.94	17.95	
1.4	64QAM	3	1	17.95	17.89	17.90	18.5
1.4	64QAM	3	3	17.85	18.02	18.06	
1.4	64QAM	6	0	18.06	18.18	18.07	

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	16.67	16.68	16.60	17
20	QPSK	1	49	16.62	16.66	16.55	
20	QPSK	1	99	16.57	16.52	16.57	
20	QPSK	50	0	15.53	15.60	15.57	16
20	QPSK	50	24	15.29	15.26	15.16	
20	QPSK	50	50	15.39	15.42	15.39	
20	QPSK	100	0	15.34	15.36	15.33	16
20	16QAM	1	0	15.15	15.25	15.43	
20	16QAM	1	49	15.30	15.16	15.44	
20	16QAM	1	99	15.24	15.55	15.20	15.5
20	16QAM	50	0	15.09	15.19	15.12	
20	16QAM	50	24	15.14	15.06	15.17	
20	16QAM	50	50	15.22	15.27	15.10	16
20	16QAM	100	0	15.10	15.22	15.20	
20	64QAM	1	0	15.58	15.42	15.15	
20	64QAM	1	49	15.52	15.49	15.54	16
20	64QAM	1	99	15.50	15.55	15.46	
20	64QAM	50	0	15.24	15.25	15.30	
20	64QAM	50	24	15.29	15.30	15.30	16
20	64QAM	50	50	15.33	15.40	15.25	
20	64QAM	100	0	15.26	15.23	15.35	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.50	16.59	16.59	17
15	QPSK	1	37	16.60	16.57	16.61	
15	QPSK	1	74	16.54	16.61	16.61	
15	QPSK	36	0	15.32	15.41	15.43	16
15	QPSK	36	20	15.40	15.47	15.42	
15	QPSK	36	39	15.43	15.46	15.50	
15	QPSK	75	0	15.49	15.42	15.44	16
15	16QAM	1	0	15.65	15.76	15.83	
15	16QAM	1	37	15.47	15.58	15.56	
15	16QAM	1	74	15.51	15.51	15.73	15.5
15	16QAM	36	0	15.10	15.21	15.23	
15	16QAM	36	20	15.17	15.20	15.19	
15	16QAM	36	39	15.23	15.21	15.10	16
15	16QAM	75	0	15.18	15.26	15.18	
15	64QAM	1	0	15.48	15.45	15.33	
15	64QAM	1	37	15.38	15.53	15.62	16
15	64QAM	1	74	15.37	15.49	15.55	
15	64QAM	36	0	15.22	15.30	15.29	
15	64QAM	36	20	15.33	15.32	15.39	16
15	64QAM	36	39	15.37	15.28	15.30	
15	64QAM	75	0	15.22	15.32	15.27	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.49	16.36	16.39	17
10	QPSK	1	25	16.52	16.42	16.44	
10	QPSK	1	49	16.45	16.42	16.44	
10	QPSK	25	0	15.24	15.24	15.23	16
10	QPSK	25	12	15.20	15.32	15.37	
10	QPSK	25	25	15.13	15.31	15.31	
10	QPSK	50	0	15.22	15.34	15.33	16
10	16QAM	1	0	15.27	15.45	15.30	
10	16QAM	1	25	15.26	15.28	15.33	
10	16QAM	1	49	15.73	15.63	15.54	15.5
10	16QAM	25	0	15.16	15.04	15.12	
10	16QAM	25	12	14.98	15.15	15.08	
10	16QAM	25	25	15.03	15.06	14.98	16
10	16QAM	50	0	15.06	15.15	15.00	
10	64QAM	1	0	15.48	15.44	15.42	
10	64QAM	1	25	15.17	15.42	15.25	1

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	
10	QPSK	1	0	18.88	19.04	18.93	19.5
10	QPSK	1	25	18.74	18.87	18.90	
10	QPSK	1	49	18.84	18.85	18.84	
10	QPSK	25	0	18.13	18.23	18.14	18.5
10	QPSK	25	12	18.10	18.04	17.83	
10	QPSK	25	25	18.15	18.21	18.14	
10	QPSK	50	0	18.16	18.18	18.09	18.5
10	16QAM	1	0	18.09	17.64	17.77	
10	16QAM	1	25	17.84	17.79	17.93	
10	16QAM	1	49	17.93	17.98	17.87	18.5
10	16QAM	25	0	17.82	17.84	17.78	
10	16QAM	25	12	17.86	17.90	17.79	
10	16QAM	25	25	17.91	17.92	17.86	18.5
10	16QAM	50	0	17.81	17.89	17.94	
10	64QAM	1	0	17.66	17.78	18.12	
10	64QAM	1	25	18.10	18.16	17.75	18.5
10	64QAM	1	49	18.12	17.80	17.73	
10	64QAM	25	0	17.63	17.57	17.54	
10	64QAM	25	12	17.68	17.71	17.63	18.5
10	64QAM	25	25	17.73	17.70	17.70	
10	64QAM	50	0	17.65	17.58	17.69	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	18.63	18.96	18.74	19.5
5	QPSK	1	12	18.79	18.95	18.79	
5	QPSK	1	24	18.75	18.94	18.80	
5	QPSK	12	0	17.86	17.93	17.92	18.5
5	QPSK	12	7	17.97	17.99	17.96	
5	QPSK	12	13	17.92	17.95	17.92	
5	QPSK	25	0	17.88	18.00	17.96	18.5
5	16QAM	1	0	17.89	17.91	17.93	
5	16QAM	1	12	18.06	18.01	18.02	
5	16QAM	1	24	18.02	18.00	17.96	18.5
5	16QAM	12	0	17.76	17.73	17.76	
5	16QAM	12	7	17.90	17.95	17.79	
5	16QAM	12	13	17.85	17.82	17.87	18.5
5	16QAM	25	0	17.86	17.82	17.84	
5	64QAM	1	0	17.64	17.65	17.70	
5	64QAM	1	12	18.09	17.79	17.72	18.5
5	64QAM	1	24	18.07	17.76	17.81	
5	64QAM	12	0	17.61	17.63	17.58	
5	64QAM	12	7	17.71	17.59	17.65	18.5
5	64QAM	12	13	17.58	17.68	17.73	
5	64QAM	25	0	17.73	17.69	17.66	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	18.71	18.98	18.65	19.5
3	QPSK	1	8	18.89	18.88	18.78	
3	QPSK	1	14	18.83	18.94	18.89	
3	QPSK	8	0	17.94	17.92	17.92	18.5
3	QPSK	8	4	17.97	18.00	18.01	
3	QPSK	8	7	17.92	18.00	17.94	
3	QPSK	15	0	17.91	17.99	17.85	18.5
3	16QAM	1	0	17.92	18.28	17.87	
3	16QAM	1	8	18.12	18.10	18.05	
3	16QAM	1	14	17.95	18.00	17.86	18.5
3	16QAM	8	0	17.92	17.81	17.84	
3	16QAM	8	4	17.97	17.94	18.05	
3	16QAM	8	7	17.81	17.84	17.90	18.5
3	16QAM	15	0	17.79	17.72	17.71	
3	64QAM	1	0	17.65	17.99	17.98	
3	64QAM	1	8	17.94	17.84	17.85	18.5
3	64QAM	1	14	17.87	17.72	17.83	
3	64QAM	8	0	17.54	17.62	17.53	
3	64QAM	8	4	17.63	17.67	17.66	18.5
3	64QAM	8	7	17.62	17.54	17.69	
3	64QAM	15	0	17.61	17.63	17.55	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	18.74	18.91	18.71	19.5
1.4	QPSK	1	3	18.85	18.84	18.86	
1.4	QPSK	1	5	18.74	18.79	18.75	
1.4	QPSK	3	0	18.69	18.82	18.80	18.5
1.4	QPSK	3	1	18.90	18.90	18.57	
1.4	QPSK	3	3	18.85	18.87	18.83	
1.4	QPSK	6	0	17.91	17.88	17.86	18.5
1.4	16QAM	1	0	17.95	17.89	17.74	
1.4	16QAM	1	3	17.76	18.19	17.86	
1.4	16QAM	1	5	17.88	17.89	17.88	18.5
1.4	16QAM	3	0	17.72	17.75	17.76	
1.4	16QAM	3	1	17.88	17.96	17.80	
1.4	16QAM	3	3	17.71	17.85	17.85	18.5
1.4	16QAM	6	0	17.64	17.84	17.74	
1.4	64QAM	1	0	17.49	17.64	17.48	
1.4	64QAM	1	3	17.61	17.54	17.59	18.5
1.4	64QAM	1	5	17.77	17.80	17.76	
1.4	64QAM	3	0	17.67	17.68	17.51	
1.4	64QAM	3	1	17.65	17.89	17.74	18
1.4	64QAM	3	3	17.67	17.51	17.67	
1.4	64QAM	6	0	17.63	17.64	17.51	

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		18.35		19
10	QPSK	1	25		18.27		
10	QPSK	1	49		18.32		
10	QPSK	25	0		17.26		17.5
10	QPSK	25	12		17.07		
10	QPSK	25	25		17.01		
10	QPSK	50	0		17.04		18
10	16QAM	1	0		17.34		
10	16QAM	1	25		17.26		
10	16QAM	1	49		17.56		17.5
10	16QAM	25	0		17.19		
10	16QAM	25	12		17.14		
10	16QAM	25	25		17.27		18
10	16QAM	50	0		17.04		
10	64QAM	1	0		17.52		
10	64QAM	1	25		17.34		17.5
10	64QAM	1	49		17.31		
10	64QAM	25	0		17.06		
10	64QAM	25	12		16.99		18
10	64QAM	25	25		17.05		
10	64QAM	50	0		17.12		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	18.24	18.30	18.25	19
5	QPSK	1	12	18.24	18.26	18.22	
5	QPSK	1	24	18.23	18.21	18.14	
5	QPSK	12	0	17.05	17.13	17.22	17.5
5	QPSK	12	7	17.12	17.11	17.20	
5	QPSK	12	13	17.04	17.20	17.18	
5	QPSK	25	0	17.11	17.08	17.18	18
5	16QAM	1	0	17.28	17.64	17.43	
5	16QAM	1	12	17.34	17.49	17.37	
5	16QAM	1	24	17.44	17.26	17.27	18.5
5	16QAM	12	0	17.77	17.74	17.67	
5	16QAM	12	7	17.78	17.67	17.79	
5	16QAM	12	13	17.75	17.74	17.78	18
5	16QAM	25	0	17.12	17.16	17.18	
5	64QAM	1	0	17.48	17.46	17.38	
5	64QAM	1	12	17.44	17.34	17.47	17.5
5	64QAM	1	24	17.45	17.44	17.44	
5	64QAM	12	0	17.17	17.23	17.30	
5	64QAM	12	7	17.34	17.13	17.23	18
5	64QAM	12	13	17.13	17.24	17.14	
5	64QAM	25	0	17.04	17.15	17.15	

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		18.54		19
10	QPSK	1	25		18.46		
10	QPSK	1	49		18.33		
10	QPSK	25	0		17.67		18
10	QPSK	25	12		17.55		
10	QPSK	25	25		17.52		
10	QPSK	50	0		17.57		18
10	16QAM	1	0		17.61		
10	16QAM	1	25		17.64		
10	16QAM	1	49		17.72		18
10	16QAM	25	0		17.31		
10	16QAM	25	12		17.52		
10	16QAM	25	25		17.52		18
10	16QAM	50	0		17.35		
10	64QAM	1	0		17.62		
10	64QAM	1	25		17.58		18
10	64QAM	1	49		17.54		
10	64QAM	25	0		17.49		
10	64QAM	25	12		17.45		18
10	64QAM	25	25		17.19		
10	64QAM	50	0		17.40		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	18.34	18.44	18.33	19
5	QPSK	1	12	18.35	18.31	18.41	
5	QPSK	1	24	18.36	18.30	18.32	
5	QPSK	12	0	17.38	17.35	17.39	18
5	QPSK	12	7	17.49	17.53	17.54	
5	QPSK	12	13	17.46	17.48	17.45	
5	QPSK	25	0	17.47	17.36	17.40	18
5	16QAM	1	0	17.47	17.40	17.60	
5	16QAM	1	12	17.52	17.44	17.50	
5	16QAM	1	24	17.50	17.41	17.49	18
5	16QAM	12	0	17.34	17.39	17.37	
5	16QAM	12	7	17.49	17.39	17.51	
5	16QAM	12	13	17.45	17.44	17.44	18
5	16QAM	25	0	17.46	17.40	17.44	
5	64QAM	1	0	17.42	17.53	17.36	
5	64QAM	1	12	17.41	17.52	17.37	18
5	64QAM	1	24	17.42	17.42	17.42	
5	64QAM	12	0	17.43	17.20	17.21	
5	64QAM	12	7	17.30	17.23	17.37	18
5	64QAM	12	13	17.28	17.30	17.23	
5	64QAM	25	0	17.24	17.28	17.29	

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	17.71	17.74	17.71	17.9
20	QPSK	1	49	17.59	17.55	17.61	
20	QPSK	1	99	17.52	17.55	17.50	
20	QPSK	50	0	16.82	16.88	16.80	17
20	QPSK	50	24	16.67	16.61	16.75	
20	QPSK	50	50	16.65	16.65	16.74	
20	QPSK	100	0	16.78	16.65	16.66	17.5
20	16QAM	1	0	16.51	16.70	16.84	
20	16QAM	1	49	16.72	17.01	16.85	
20	16QAM	1	99	16.68	16.93	16.98	17.5
20	16QAM	50	0	16.62	16.86	16.85	
20	16QAM	50	24	16.68	16.83	16.81	
20	16QAM	50	50	16.51	16.77	16.82	17.5
20	16QAM	100	0	16.55	16.84	16.81	
20	64QAM	1	0	16.52	16.85	16.53	
20	64QAM	1	49	16.75	16.65	16.55	17.5
20	64QAM	1	99	16.49	16.52	16.52	
20	64QAM	50	0	16.67	16.84	16.82	
20	64QAM	50	24	16.59	16.67	16.84	17.5
20	64QAM	50	50	16.53	16.74	16.90	
20	64QAM	100	0	16.60	16.83	16.84	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	17.65	17.61	17.57	17.9
15	QPSK	1	37	17.64	17.60	17.59	
15	QPSK	1	74	17.56	17.62	17.61	
15	QPSK	36	0	16.72	16.90	17.06	17
15	QPSK	36	20	16.84	16.93	17.01	
15	QPSK	36	39	16.67	16.95	17.01	
15	QPSK	75	0	16.70	16.87	17.00	17.5
15	16QAM	1	0	17.18	17.23	16.95	
15	16QAM	1	37	17.35	16.91	17.28	
15	16QAM	1	74	17.19	17.24	17.40	17.5
15	16QAM	36	0	16.63	16.66	16.87	
15	16QAM	36	20	16.63	16.70	16.82	
15	16QAM	36	39	16.54	16.79	16.82	17.5
15	16QAM	75	0	16.64	16.76	16.80	
15	64QAM	1	0	16.44	16.45	16.45	
15	64QAM	1	37	16.48	16.45	16.53	17.5
15	64QAM	1	74	16.53	16.53	16.45	
15	64QAM	36	0	16.59	16.64	16.88	
15	64QAM	36	20	16.72	16.80	16.74	17.5
15	64QAM	36	39	16.57	16.75	16.77	
15	64QAM	75	0	16.54	16.73	16.89	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	17.65	17.66	17.57	17.9
10	QPSK	1	25	17.60	17.54	17.53	
10	QPSK	1	49	17.63	17.61	17.53	
10	QPSK	25	0	16.97	16.89	16.83	17
10	QPSK	25	12	16.80	16.95	16.83	
10	QPSK	25	25	16.82	16.94	16.61	
10	QPSK	50	0	16.98	16.94	17.05	17.5
10	16QAM	1	0	16.93	16.83	17.08	
10	16QAM	1	25	16.87	16.65	17.11	
10	16QAM	1	49	16.85	17.08	17.08	17.5
10	16QAM	25	0	16.85	16.64	17.04	
10	16QAM	25	12	16.62	16.73	16.84	
10	16QAM	25	25	16.72	16.68	16.74	17.5
10	16QAM	50	0	16.63	16.80	16.54	
10	64QAM	1	0	16.52	16.75	16.62	
10	64QAM	1	25	16.45	16.55	16.73	17.5
10	64QAM	1	49	16.52	16.57	16.80	
10	64QAM	25	0	16.58	16.69	16.90	
10	64QAM	25	12	16.59	16.80	16.91	17.5
10	64QAM	25	25	16.57	16.81	16.95	
10	64QAM	50	0	16.60	16.70	16.83	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	17.59	17.64	17.61	17.9
5	QPSK	1	12	17.57	17.57	17.56	
5	QPSK	1	24	17.63	17.61	17.59	
5	QPSK	12	0	17.02	16.76	17.02	17
5	QPSK	12	7	17.15	17.01	17.12	
5	QPSK	12	13	16.72	17.11	17.04	
5	QPSK	25	0	17.09	16.88	17.05	17.5
5	16QAM	1	0	17.09	16.79	16.98	
5	16QAM	1	12	16.81	16.65	17.09	
5	16QAM	1	24	16.72	16.74	17.08	17.5
5	16QAM	12	0	16.59	16.57	16.93	
5	16QAM	12	7	16.62	16.74	16.70	
5	16QAM	12	13	16.59	16.70	16.85	17.5
5	16QAM	25	0	16.50	16.67	16.77	
5	64QAM	1	0	16.47	16.71	16.74	
5	64QAM	1	12	16.52	16.55	16.54	17.5
5	64QAM	1	24	16.55	16.45	16.53	
5	64QAM	12	0	16.54	16.66	16.81	
5	64QAM	12	7	16.55	16.83	16.90	17.5
5	64QAM	12	13	16.48	16.73	16.82	
5	64QAM	25	0	16.54	16.71	16.86	
Channel				26055	26365	26675	Tune-up

3	QPSK	1	14	17.49	17.57	17.50	17
3	QPSK	8	0	16.67	16.80	16.86	
3	QPSK	8	4	16.82	16.79	16.97	
3	QPSK	8	7	16.66	16.80	16.89	
3	QPSK	15	0	16.73	16.79	16.93	17.5
3	16QAM	1	0	16.79	16.87	17.03	
3	16QAM	1	8	17.07	17.03	16.87	
3	16QAM	1	14	17.13	17.03	16.98	
3	16QAM	8	0	16.57	16.57	16.57	17.5
3	16QAM	8	4	16.57	16.73	16.92	
3	16QAM	8	7	16.68	16.87	16.93	
3	16QAM	15	0	16.72	16.62	16.83	
3	64QAM	1	0	16.77	16.59	16.74	17.5
3	64QAM	1	8	16.81	16.52	16.53	
3	64QAM	1	14	16.72	16.53	16.55	
3	64QAM	8	0	16.60	16.70	16.86	
3	64QAM	8	4	16.55	16.75	16.82	17.5
3	64QAM	8	7	16.53	16.59	16.93	
3	64QAM	15	0	16.52	16.60	16.81	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	17.59	17.59	17.57	17.9
1.4	QPSK	1	3	17.56	17.57	17.51	
1.4	QPSK	1	5	17.51	17.57	17.48	
1.4	QPSK	3	0	17.46	17.50	17.59	
1.4	QPSK	3	1	17.49	17.53	17.56	
1.4	QPSK	3	3	17.54	17.47	17.51	
1.4	QPSK	6	0	16.78	16.95	16.77	17
1.4	16QAM	1	0	17.09	16.91	16.61	17.5
1.4	16QAM	1	3	16.87	16.61	16.86	
1.4	16QAM	1	5	16.61	16.87	16.98	
1.4	16QAM	3	0	16.84	16.86	16.88	
1.4	16QAM	3	1	16.88	17.03	17.09	
1.4	16QAM	3	3	16.65	16.89	17.13	
1.4	16QAM	6	0	16.75	16.88	16.55	17.5
1.4	64QAM	1	0	16.55	16.85	16.72	17.5
1.4	64QAM	1	3	16.53	16.88	16.55	
1.4	64QAM	1	5	16.54	16.95	16.74	
1.4	64QAM	3	0	16.61	16.73	16.55	
1.4	64QAM	3	1	16.52	16.55	16.53	
1.4	64QAM	3	3	16.77	16.53	16.85	
1.4	64QAM	6	0	16.58	16.76	16.81	17.5

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	17.68	17.72	17.69	19
15	QPSK	1	37	17.66	17.63	17.69	
15	QPSK	1	74	17.64	17.62	17.64	
15	QPSK	36	0	17.00	17.08	16.96	18
15	QPSK	36	20	16.89	16.83	16.68	
15	QPSK	36	39	16.91	16.70	16.76	
15	QPSK	75	0	16.97	16.71	16.78	18
15	16QAM	1	0	16.69	16.84	17.12	
15	16QAM	1	37	16.65	16.76	16.90	
15	16QAM	1	74	16.80	16.69	16.70	17
15	16QAM	36	0	16.80	16.66	16.69	
15	16QAM	36	20	16.75	16.55	16.70	
15	16QAM	36	39	16.82	16.62	16.70	17
15	16QAM	75	0	16.70	16.72	16.72	
15	64QAM	1	0	16.12	15.99	15.81	
15	64QAM	1	37	15.77	15.81	15.91	17
15	64QAM	1	74	15.81	15.77	16.09	
15	64QAM	36	0	16.17	15.98	15.97	
15	64QAM	36	20	16.26	15.98	15.89	17
15	64QAM	36	39	16.24	16.04	15.80	
15	64QAM	75	0	16.18	16.01	15.94	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	17.60	17.64	17.61	19
10	QPSK	1	25	17.63	17.62	17.55	
10	QPSK	1	49	17.59	17.62	17.54	
10	QPSK	25	0	17.02	16.83	16.69	18
10	QPSK	25	12	16.98	16.80	16.59	
10	QPSK	25	25	16.97	16.81	16.66	
10	QPSK	50	0	16.98	16.86	16.68	18
10	16QAM	1	0	16.70	17.02	16.79	
10	16QAM	1	25	16.79	16.88	16.93	
10	16QAM	1	49	16.73	16.72	16.70	17
10	16QAM	25	0	16.74	16.88	16.77	
10	16QAM	25	12	16.75	16.91	16.99	
10	16QAM	25	25	16.92	16.80	16.86	17
10	16QAM	50	0	16.89	16.96	16.98	
10	64QAM	1	0	16.07	16.07	15.89	
10	64QAM	1	25	16.17	15.89	15.91	17
10	64QAM	1	49	15.89	15.88	15.88	
10	64QAM	25	0	16.24	16.01	15.96	
10	64QAM	25	12	16.00	16.02	15.95	17
10	64QAM	25	25	15.90	16.03	15.78	
10	64QAM	50	0	16.20	15.99	15.92	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	17.59	17.64	17.60	19
5	QPSK	1	12	17.54	17.58	17.60	
5	QPSK	1	24	17.50	17.62	17.62	
5	QPSK	12	0	16.96	16.78	16.67	18
5	QPSK	12	7	17.06	16.77	16.77	
5	QPSK	12	13	16.95	16.72	16.66	
5	QPSK	25	0	16.99	16.80	16.85	18
5	16QAM	1	0	16.70	16.70	16.71	
5	16QAM	1	12	16.74	16.64	16.61	
5	16QAM	1	24	16.79	16.79	16.84	17
5	16QAM	12	0	16.57	16.89	16.87	
5	16QAM	12	7	16.92	16.94	16.63	
5	16QAM	12	13	16.84	16.89	16.68	17
5	16QAM	25	0	16.59	16.73	16.70	
5	64QAM	1	0	16.08	15.90	15.88	
5	64QAM	1	12	15.97	16.08	15.89	17
5	64QAM	1	24	15.91	15.88	15.88	
5	64QAM	12	0	16.18	15.96	15.79	
5	64QAM	12	7	15.77	16.09	15.80	17
5	64QAM	12	13	16.17	16.06	15.72	
5	64QAM	25	0	16.17	15.96	15.78	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	17.63	17.60	17.65	19
3	QPSK	1	8	17.54	17.62	17.54	
3	QPSK	1	14	17.59	17.55	17.61	
3	QPSK	8	0	16.86	16.70	16.89	18
3	QPSK	8	4	17.03	16.77	16.66	
3	QPSK	8	7	17.03	16.76	16.87	
3	QPSK	15	0	16.88	16.68	16.78	18
3	16QAM	1	0	16.99	16.93	16.94	
3	16QAM	1	8	16.98	16.87	16.90	
3	16QAM	1	14	16.96	16.81	16.81	17
3	16QAM	8	0	16.75	16.68	16.75	
3	16QAM	8	4	16.99	16.66	16.70	
3	16QAM	8	7	16.75	16.72	16.66	17
3	16QAM	15	0	16.82	16.69	16.79	
3	64QAM	1	0	15.77	16.21	16.00	
3	64QAM	1	8	16.07	16.17	15.91	17
3	64QAM	1	14	16.01	16.17	16.07	
3	64QAM	8	0	15.90	15.95	15.85	
3	64QAM	8	4	15.90	15.99	15.85	17
3	64QAM	8	7	16.17	16.05	15.84	
3	64QAM	15	0	16.17	16.03	15.82	
Channel				26697	26865	27033	Tune-up

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		17.49		18
10	QPSK	1	25		17.44		
10	QPSK	1	49		17.48		
10	QPSK	25	0		16.06		16.5
10	QPSK	25	12		15.95		
10	QPSK	25	25		15.93		
10	QPSK	50	0		16.04		17
10	16QAM	1	0		16.32		
10	16QAM	1	25		16.23		
10	16QAM	1	49		16.49		17
10	16QAM	25	0		16.35		
10	16QAM	25	12		16.34		
10	16QAM	25	25		16.32		17
10	16QAM	50	0		16.28		
10	64QAM	1	0		16.05		
10	64QAM	1	25		16.13		16.5
10	64QAM	1	49		16.12		
10	64QAM	25	0		16.02		
10	64QAM	25	12		16.27		17
10	64QAM	25	25		16.30		
10	64QAM	50	0		16.28		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	17.02	17.23	17.00	17.5
5	QPSK	1	12	17.08	17.07	17.17	
5	QPSK	1	24	17.01	16.97	17.14	
5	QPSK	12	0	16.45	16.53	16.36	17
5	QPSK	12	7	16.43	16.40	16.32	
5	QPSK	12	13	16.38	16.31	16.34	
5	QPSK	25	0	16.43	16.27	16.33	17
5	16QAM	1	0	16.42	16.49	16.35	
5	16QAM	1	12	16.30	16.45	16.13	
5	16QAM	1	24	16.41	16.06	16.16	17
5	16QAM	12	0	16.09	16.16	16.33	
5	16QAM	12	7	16.12	16.16	16.17	
5	16QAM	12	13	16.09	16.28	16.26	17
5	16QAM	25	0	16.17	16.27	16.39	
5	64QAM	1	0	16.16	16.12	16.06	
5	64QAM	1	12	16.03	16.12	16.03	16.5
5	64QAM	1	24	16.16	16.12	16.12	
5	64QAM	12	0	16.12	16.16	16.05	
5	64QAM	12	7	16.12	16.29	16.09	17
5	64QAM	12	13	16.30	16.28	16.31	
5	64QAM	25	0	16.33	16.32	16.27	

1.4	QPSK	1	5	17.59	17.51	17.51	18
1.4	QPSK	3	0	17.63	17.51	17.53	
1.4	QPSK	3	1	17.54	17.54	17.59	
1.4	QPSK	3	3	17.54	17.60	17.62	
1.4	QPSK	6	0	16.64	16.86	16.89	18
1.4	16QAM	1	0	16.69	16.76	16.76	
1.4	16QAM	1	3	16.76	16.70	16.70	
1.4	16QAM	1	5	16.85	16.99	16.80	
1.4	16QAM	3	0	16.86	16.62	16.87	17
1.4	16QAM	3	1	16.86	16.65	16.78	
1.4	16QAM	3	3	16.86	16.63	16.59	
1.4	16QAM	6	0	16.92	16.99	16.97	
1.4	64QAM	1	0	16.11	16.08	16.13	17
1.4	64QAM	1	3	16.17	16.17	16.17	
1.4	64QAM	1	5	16.07	16.10	16.21	
1.4	64QAM	3	0	16.16	16.17	16.17	
1.4	64QAM	3	1	16.21	16.09	16.13	17
1.4	64QAM	3	3	16.13	16.17	16.08	
1.4	64QAM	6	0	16.20	16.13	15.84	

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	17.35	17.41	17.39	18
20	QPSK	1	49	17.20	17.19	17.15	
20	QPSK	1	99	17.13	17.12	17.15	
20	QPSK	50	0	16.58	16.65	16.61	17
20	QPSK	50	24	16.39	16.41	16.54	
20	QPSK	50	50	16.43	16.51	16.39	
20	QPSK	100	0	16.41	16.41	16.33	17
20	16QAM	1	0	16.46	16.22	16.50	
20	16QAM	1	49	16.51	16.25	16.31	
20	16QAM	1	99	16.51	16.69	16.48	17
20	16QAM	50	0	16.63	16.60	16.57	
20	16QAM	50	24	16.52	16.52	16.53	
20	16QAM	50	50	16.49	16.41	16.37	17
20	16QAM	100	0	16.45	16.48	16.54	
20	64QAM	1	0	16.61	16.38	16.71	
20	64QAM	1	49	16.38	16.71	16.70	17.5
20	64QAM	1	99	16.61	16.73	16.81	
20	64QAM	50	0	16.57	16.47	16.60	
20	64QAM	50	24	16.51	16.45	16.57	17
20	64QAM	50	50	16.53	16.41	16.47	
20	64QAM	100	0	16.52	16.52	16.50	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	18
15	QPSK	1	0	17.21	17.25	17.23	
15	QPSK	1	37	17.35	17.21	17.19	
15	QPSK	1	74	17.19	17.15	17.13	17
15	QPSK	36	0	16.40	16.37	16.41	
15	QPSK	36	20	16.40	16.32	16.42	
15	QPSK	36	39	16.26	16.31	16.28	17
15	QPSK	75	0	16.35	16.39	16.32	
15	16QAM	1	0	16.34	16.21	16.51	
15	16QAM	1	37	16.21	16.51	16.44	17
15	16QAM	1	74	16.31	16.21	16.21	
15	16QAM	36	0	16.52	16.52	16.43	
15	16QAM	36	20	16.55	16.54	16.60	17
15	16QAM	36	39	16.47	16.62	16.56	
15	16QAM	75	0	16.57	16.55	16.51	
15	64QAM	1	0	16.71	16.61	16.71	17.5
15	64QAM	1	37	16.73	16.51	16.61	
15	64QAM	1	74	16.38	16.64	16.71	
15	64QAM	36	0	16.50	16.49	16.62	17
15	64QAM	36	20	16.60	16.56	16.57	
15	64QAM	36	39	16.49	16.43	16.47	
15	64QAM	75	0	16.51	16.53	16.50	18
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	18
10	QPSK	1	0	17.19	17.19	17.20	
10	QPSK	1	25	17.09	17.07	17.15	
10	QPSK	1	49	17.23	17.11	17.01	17
10	QPSK	25	0	16.66	16.59	16.66	
10	QPSK	25	12	16.63	16.82	16.60	
10	QPSK	25	25	16.64	16.60	16.52	17
10	QPSK	50	0	16.72	16.57	16.76	
10	16QAM	1	0	16.64	16.64	16.84	
10	16QAM	1	25	16.64	16.73	16.85	17
10	16QAM	1	49	16.47	16.67	16.55	
10	16QAM	25	0	16.48	16.65	16.53	
10	16QAM	25	12	16.47	16.67	16.58	17
10	16QAM	25	25	16.38	16.43	16.43	
10	16QAM	50	0	16.54	16.58	16.59	
10	64QAM	1	0	16.54	16.54	16.21	17.5
10	64QAM	1	25	16.21	16.34	16.24	
10	64QAM	1	49	16.21	16.21	16.21	
10	64QAM	25	0	16.54	16.52	16.54	17
10	64QAM	25	12	16.53	16.57	16.61	
10	64QAM	25	25	16.53	16.46	16.48	
10	64QAM	50	0	16.43	16.53	16.54	18
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	18
5	QPSK	1	0	17.08	17.11	17.16	
5	QPSK	1	12	17.11	17.11	17.10	
5	QPSK	1	24	17.19	17.09	17.15	17
5	QPSK	12	0	16.35	16.37	16.33	
5	QPSK	12	7	16.37	16.45	16.38	
5	QPSK	12	13	16.28	16.34	16.35	17
5	QPSK	25	0	16.38	16.39	16.38	
5	16QAM	1	0	16.87	16.56	16.57	
5	16QAM	1	12	16.50	16.79	16.74	17
5	16QAM	1	24	16.62	16.51	16.86	
5	16QAM	12	0	16.51	16.62	16.58	
5	16QAM	12	7	16.68	16.60	16.72	17
5	16QAM	12	13	16.59	16.53	16.60	
5	16QAM	25	0	16.60	16.62	16.54	
5	64QAM	1	0	16.21	16.61	16.41	17.5
5	64QAM	1	12	16.51	16.51	16.51	
5	64QAM	1	24	16.34	16.38	16.34	
5	64QAM	12	0	16.58	16.33	16.54	17
5	64QAM	12	7	16.66	16.25	16.56	
5	64QAM	12	13	16.49	16.61	16.56	
5	64QAM	25	0	16.56	16.64	16.51	18
Channel				131987	132322	132657	Tune-up

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	16.64	16.71	16.68	17
20	QPSK	1	49	16.63	16.65	16.65	
20	QPSK	1	99	16.55	16.61	16.58	
20	QPSK	50	0	15.75	15.97	15.83	16.5
20	QPSK	50	24	15.68	15.75	15.71	
20	QPSK	50	50	15.72	15.77	15.71	
20	QPSK	100	0	15.60	15.71	15.74	16.5
20	16QAM	1	0	15.72	15.72	15.65	
20	16QAM	1	49	15.71	15.31	15.71	
20	16QAM	1	99	15.65	15.64	15.75	16
20	16QAM	50	0	15.50	15.64	15.25	
20	16QAM	50	24	15.61	15.43	15.34	
20	16QAM	50	50	15.60	15.24	15.28	16.5
20	16QAM	100	0	15.61	15.64	15.30	
20	64QAM	1	0	15.42	15.70	15.73	
20	64QAM	1	49	15.42	15.61	15.71	16.5
20	64QAM	1	99	15.44	15.71	15.75	
20	64QAM	50	0	15.43	15.42	15.31	
20	64QAM	50	24	15.45	15.41	15.40	16
20	64QAM	50	50	15.43	15.20	15.42	
20	64QAM	100	0	15.43	15.39	15.30	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	16.37	16.55	16.56	
15	QPSK	1	37	16.35	16.48	16.59	17
15	QPSK	1	74	16.37	16.59	16.56	
15	QPSK	36	0	15.46	15.71	15.75	
15	QPSK	36	20	15.66	15.75	15.71	16.5
15	QPSK	36	39	15.73	15.71	15.64	
15	QPSK	75	0	15.61	15.61	15.62	
15	16QAM	1	0	15.69	15.71	15.61	16.5
15	16QAM	1	37	15.71	15.75	15.43	
15	16QAM	1	74	15.72	15.62	15.42	
15	16QAM	36	0	15.49	15.45	15.34	16
15	16QAM	36	20	15.47	15.61	15.38	
15	16QAM	36	39	15.49	15.51	15.36	
15	16QAM	75	0	15.45	15.40	15.34	16.5
15	64QAM	1	0	15.56	15.45	15.61	
15	64QAM	1	37	15.44	15.45	15.43	
15	64QAM	1	74	15.39	15.47	15.64	16
15	64QAM	36	0	15.31	15.46	15.39	
15	64QAM	36	20	15.59	15.45	15.33	
15	64QAM	36	39	15.43	15.43	15.44	16
15	64QAM	75	0	15.61	15.43	15.47	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	16.40	16.59	16.38	
10	QPSK	1	25	16.51	16.38	16.58	17
10	QPSK	1	49	16.52	16.54	16.27	
10	QPSK	25	0	15.45	15.31	15.31	
10	QPSK	25	12	15.68	15.64	15.35	16.5
10	QPSK	25	25	15.69	15.71	15.31	
10	QPSK	50	0	15.67	15.59	15.31	
10	16QAM	1	0	15.53	15.30	15.61	16.5
10	16QAM	1	25	15.41	15.31	15.71	
10	16QAM	1	49	15.78	15.34	15.43	
10	16QAM	25	0	15.31	15.42	15.38	16
10	16QAM	25	12	15.61	15.31	15.44	
10	16QAM	25	25	15.31	15.45	15.50	
10	16QAM	50	0	15.43	15.47	15.39	16.5
10	64QAM	1	0	15.43	15.46	15.39	
10	64QAM	1	25	15.34	15.59	15.49	
10	64QAM	1	49	15.70	15.44	15.49	16
10	64QAM	25	0	15.29	15.29	15.39	
10	64QAM	25	12	15.29	15.49	15.50	
10	64QAM	25	25	15.25	15.45	15.41	16
10	64QAM	50	0	15.31	15.47	15.37	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	16.44	16.54	16.38	
5	QPSK	1	12	16.38	16.59	16.57	17
5	QPSK	1	24	16.38	16.37	16.36	
5	QPSK	12	0	15.58	16.06	15.65	
5	QPSK	12	7	15.72	15.71	15.71	16.5
5	QPSK	12	13	15.60	15.62	15.64	
5	QPSK	25	0	15.64	15.65	15.31	
5	16QAM	1	0	15.60	15.71	15.61	16.5
5	16QAM	1	12	15.43	15.61	15.31	
5	16QAM	1	24	15.43	15.44	15.43	
5	16QAM	12	0	15.44	15.49	15.43	16
5	16QAM	12	7	15.43	15.45	15.43	
5	16QAM	12	13	15.34	15.46	15.43	
5	16QAM	25	0	15.61	15.33	15.51	16.5
5	64QAM	1	0	15.37	15.70	15.31	
5	64QAM	1	12	15.64	15.64	15.71	
5	64QAM	1	24	15.64	15.64	15.61	16
5	64QAM	12	0	15.35	15.47	15.43	
5	64QAM	12	7	15.44	15.45	15.36	
5	64QAM	12	13	15.43	15.46	15.33	16
5	64QAM	25	0	15.47	15.49	15.40	

3	QPSK	1	14	16.93	16.74	17.04	17
3	QPSK	8	0	16.61	16.58	16.62	
3	QPSK	8	4	16.61	16.53	16.63	
3	QPSK	8	7	16.47	16.52	16.49	
3	QPSK	15	0	16.56	16.60	16.53	17
3	16QAM	1	0	16.25	16.66	16.42	
3	16QAM	1	8	16.58	16.52	16.51	
3	16QAM	1	14	16.62	16.51	16.21	
3	16QAM	8	0	16.43	16.43	16.34	17
3	16QAM	8	4	16.46	16.45	16.51	
3	16QAM	8	7	16.38	16.53	16.47	
3	16QAM	15	0	16.48	16.46	16.42	
3	64QAM	1	0	16.62	16.52	16.62	17.5
3	64QAM	1	8	16.64	16.42	16.52	
3	64QAM	1	14	16.29	16.55	16.62	
3	64QAM	8	0	16.41	16.40	16.53	
3	64QAM	8	4	16.51	16.47	16.48	17
3	64QAM	8	7	16.40	16.34	16.38	
3	64QAM	15	0	16.42	16.44	16.41	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.09	17.00	17.01	17.5
1.4	QPSK	1	3	17.15	17.17	17.17	
1.4	QPSK	1	5	17.07	16.95	17.11	
1.4	QPSK	3	0	17.06	16.99	17.06	
1.4	QPSK	3	1	17.03	17.09	17.00	
1.4	QPSK	3	3	17.04	17.00	16.92	
1.4	QPSK	6	0	16.64	16.49	16.68	17
1.4	16QAM	1	0	16.56	16.56	16.76	17.5
1.4	16QAM	1	3	16.56	16.65	16.77	
1.4	16QAM	1	5	16.39	16.59	16.47	
1.4	16QAM	3	0	16.10	16.07	16.33	
1.4	16QAM	3	1	16.19	16.09	16.21	
1.4	16QAM	3	3	16.20	16.21	16.15	
1.4	16QAM	6	0	16.09	16.00	16.01	16.5
1.4	64QAM	1	0	16.43	16.28	16.44	17
1.4	64QAM	1	3	16.16	16.25	16.25	
1.4	64QAM	1	5	16.13	16.13	16.24	
1.4	64QAM	3	0	16.46	16.44	16.46	
1.4	64QAM	3	1	16.45	16.49	16.53	
1.4	64QAM	3	3	16.45	16.38	16.40	
1.4	64QAM	6	0	16.35	16.45	16.46	17

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				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.13	19.23	19.25	19.18	19.19	19.5	
20	QPSK	1	49	19.09	19.18	19.18	19.19	19.19		
20	QPSK	1	99	19.03	19.19	19.14	19.24	18.99		
20	QPSK	50	0	18.09	18.34	18.35	18.33	18.28		
20	QPSK	50	24	18.09	18.19	18.12	18.09	18.09	18.5	
20	QPSK	50	50	18.12	18.33	18.13	18.12	18.19		
20	QPSK	100	0	18.09	18.12	18.19	18.13	18.09		
20	16QAM	1	0	18.13	18.29	18.12	18.19	18.09		
20	16QAM	1	49	18.12	18.17	18.12	18.07	18.09	18.5	
20	16QAM	1	99	18.19	18.09	18.19	18.17	18.19		
20	16QAM	50	0	18.10	18.19	18.12	18.42	18.09		
20	16QAM	50	24	18.08	18.40	18.09	18.19	18.09		
20	16QAM	50	50	18.14	18.46	18.55	18.16	18.19	19	
20	16QAM	100	0	18.08	18.39	18.54	18.23	18.12		
20	64QAM	1	0	18.23	18.14	18.34	18.17	18.13		
20	64QAM	1	49	18.16	18.26	18.16	18.45	18.13		
20	64QAM	1	99	18.26	18.21	18.12	18.21	18.09	19	
20	64QAM	50	0	18.22	18.18	18.15	18.10	18.19		
20	64QAM	50	24	18.07	18.34	18.22	18.19	18.12		
20	64QAM	50	50	18.17	18.33	18.36	18.25	18.18		
20	64QAM	100	0	18.15	18.43	18.39	18.07	18.19		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.79	18.95	19.15	19.02	19.01	19.5	
15	QPSK	1	37	18.78	19.13	19.19	19.02	19.12		
15	QPSK	1	74	18.78	19.11	19.12	18.95	18.92		
15	QPSK	36	0	17.95	18.29	18.14	18.34	18.95		
15	QPSK	36	20	18.00	18.34	18.10	18.30	19.02	18.5	
15	QPSK	36	39	18.16	18.37	18.09	18.33	18.97		
15	QPSK	75	0	17.94	18.39	18.12	18.36	18.94		
15	16QAM	1	0	17.88	18.20	18.49	18.14	17.94		
15	16QAM	1	37	18.09	18.37	18.06	18.20	18.03	18.5	
15	16QAM	1	74	18.05	18.29	17.63	18.04	17.96		
15	16QAM	36	0	17.92	18.36	18.03	18.23	18.41		
15	16QAM	36	20	17.97	18.30	17.99	18.19	18.43		
15	16QAM	36	39	18.04	18.43	18.53	18.23	18.19	19	
15	16QAM	75	0	17.95	18.44	18.01	18.23	17.79		
15	64QAM	1	0	18.25	18.15	18.39	18.03	18.53		
15	64QAM	1	37	18.53	18.29	18.53	18.16	17.65		
15	64QAM	1	74	18.50	18.22	18.32	18.50	17.38	19	
15	64QAM	36	0	17.94	18.28	18.10	18.24	18.02		
15	64QAM	36	20	18.09	18.39	18.54	18.17	17.91		
15	64QAM	36	39	18.04	18.38	18.51	18.23	17.83		
15	64QAM	75	0	18.02	18.39	18.51	18.27	17.91		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	18.83	19.04	19.12	19.00	18.99	19.5	
10	QPSK	1	25	19.03	19.09	18.99	18.95	18.94		
10	QPSK	1	49	18.80	18.96	19.19	19.19	18.95		
10	QPSK	25	0	17.91	18.34	18.22	18.18	18.19		
10	QPSK	25	12	17.99	18.33	18.11	18.18	18.19	18.5	
10	QPSK	25	25	18.03	18.42	18.06	18.22	18.55		
10	QPSK	50	0	18.08	18.46	18.14	18.20	17.79		
10	16QAM	1	0	17.94	17.81	17.96	18.21	17.99		
10	16QAM	1	25	18.12	17.90	18.11	18.04	18.03	18.5	
10	16QAM	1	49	17.98	17.86	18.03	18.17	18.18		
10	16QAM	25	0	17.98	17.89	18.17	18.35	17.84		
10	16QAM	25	12	18.11	17.86	18.03	18.29	17.60		
10	16QAM	25	25	18.08	17.93	18.15	18.42	18.11	19	
10	16QAM	50	0	18.06	17.89	18.13	18.31	17.87		
10	64QAM	1	0	17.88	18.24	17.84	18.18	18.24		
10	64QAM	1	25	17.91	18.36	18.01	18.23	18.19		
10	64QAM	1	49	17.89	18.25	17.88	18.14	18.00	19	
10	64QAM	25	0	17.96	18.39	18.09	18.27	18.16		
10	64QAM	25	12	17.99	18.36	17.98	18.27	17.91		
10	64QAM	25	25	18.08	18.40	18.07	18.24	18.14		
10	64QAM	50	0	18.04	18.37	18.12	18.33	18.20		
Channel				39675	40148	40620	41093	41555	Tune-up limit (dBm)	
Frequency (MHz)				2499.5	2545.8	2593	2640.39	2687.5		
5	QPSK	1	0	18.8	18.89	19.12	19.09	18.90	19.5	
5	QPSK	1	12	18.79	19.04	18.99	19.12	18.94		
5	QPSK	1	24	18.92	18.95	19.09	18.82	18.95		
5	QPSK	12	0	17.93	18.27	18.31	18.40	17.91		
5	QPSK	12	7	18.01	18.40	18.16	18.46	18.13	18.5	
5	QPSK	12	13	17.95	18.40	18.38	18.52	18.19		
5	QPSK	25	0	17.98	18.41	18.39	18.54	18.12		
5	16QAM	1	0	18.42	18.24	18.40	18.09	18.03		
5	16QAM	1	12	18.03	18.41	18.57	18.25	17.93	18.5	
5	16QAM	1	24	17.89	18.27	18.38	18.10	18.19		
5	16QAM	12	0	17.87	17.82	18.04	18.22	17.99		
5	16QAM	12	7	17.99	17.77	18.14	18.33	18.12		
5	16QAM	12	13	18.05	17.90	18.04	18.26	17.91	19	
5	16QAM	25	0	17.97	17.78	18.12	18.33	17.89		
5	64QAM	1	0	18.24	18.09	18.36	18.11	17.94		
5	64QAM	1	12	18.44	18.30	18.49	18.20	17.90		
5	64QAM	1	24	18.29	18.15	18.42	18.06	18.23	19	
5	64QAM	12	0	18.24	18.33	18.02	18.14	18.10		
5	64QAM	12	7	18.25	17.81	18.10	18.32	18.18		
5	64QAM	12	13	18.23	17.80	17.89	18.20	18.09		
5	64QAM	25	0	17.97	17.80	17.95	18.29	17.91		

LTE Band 41 (HPUE)										
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)	
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.63	20.47	20.74	20.26	20.16	21	
20	QPSK	1	49	19.62	20.41	20.68	20.23	20.15		
20	QPSK	1	99	19.51	20.31	20.67	20.19	20.01		
20	QPSK	50	0	18.97	19.59	19.79	19.66	19.27		
20	QPSK	50	24	18.87	19.48	19.70	19.57	19.18	20	
20	QPSK	50	50	18.83	19.57	19.77	19.52	19.11		
20	QPSK	100	0	18.96	19.48	19.68	19.50	19.23		
20	16QAM	1	0	19.19	20.22	20.24	19.85	19.75		
20	16QAM	1	49	19.12	20.15	20.14	19.81	19.71	21	
20	16QAM	1	99	19.14	20.06	20.20	19.82	19.60		
20	16QAM	50	0	18.11	18.82	18.94	18.86	18.39		
20	16QAM	50	24	18.09	18.78	18.89	18.84	18.38		
20	16QAM	50	50	17.97	18.70	18.94	18.83	18.28	19	
20	16QAM	100	0	17.93	18.80	18.90	18.79	18.23		
20	64QAM	1	0	19.10	20.13	20.16	19.75	19.63		
20	64QAM	1	49	19.09	20.12	20.12	19.64	19.62		
20	64QAM	1	99	18.95	20.08	19.99	19.66	19.51	20	
20	64QAM	50	0	18.08	18.80	18.94	18.99	18.35		
20	64QAM	50	24	18.08	18.70	18.93	18.96	18.32	19	
20	64QAM	50	50	18.00	18.69	18.76	18.82	18.30		
20	64QAM	100	0	17.88	18.77	18.93	18.85	18.16		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	19.65	20.51	20.70	20.57	20.12	21	
15	QPSK	1	37	19.59	20.44	20.67	20.68	20.04		
15	QPSK	1	74	19.47	20.42	20.58	20.60	20.08		
15	QPSK	36	0	18.99	19.70	19.82	19.73	19.24		
15	QPSK	36	20	18.88	19.70	19.73	19.63	19.23	20	
15	QPSK	36	39	18.95	19.59	19.71	19.59	19.06		
15	QPSK	75	0	18.82	19.53	19.53	19.69	19.03		
15	16QAM	1	0	19.19	20.06	20.22	20.17	19.65		
15	16QAM	1	37	19.08	20.01	20.11	20.12	19.60	21	
15	16QAM	1	74	19.06	19.92	19.97	20.19	19.58		
15	16QAM	36	0	18.12	18.86	18.97	18.64	18.34		
15	16QAM	36	20	18.11	18.77	18.90	18.60	18.23		
15	16QAM	36	39	18.00	18.76	18.91	18.60	18.24	19	
15	16QAM	75	0	18.11	18.81	18.83	18.53	18.27		
15	64QAM	1	0	19.12	19.95	20.11	20.03	19.57		
15	64QAM	1	37	19.07	19.90	20.09	20.02	19.50		
15	64QAM	1	74	19.06	19.86	20.02	19.96	19.48	20	
15	64QAM	36	0	18.11	18.75	18.95	18.88	18.33		
15	64QAM	36	20	18.02	18.68	18.90	18.79	18.26		
15	64QAM	36	39	17.93	18.62	18.77	18.85	18.22		
15	64QAM	75	0	18.11	18.57	18.80	18.80	18.17	19	
Channel				39710	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	18.97	19.04	19.13	18.88	18.83	21	
10	QPSK	1	25	18.87	18.94	19.02	18.87	18.83		
10	QPSK	1	49	18.82	19.03	19.05	18.74	18.75		
10	QPSK	25	0	18.11	18.09	18.16	18.00	17.88		
10	QPSK	25	12	18.05	18.04	18.05	17.97	17.80	20	
10	QPSK	25	25	17.96	17.96	18.05	17.88	17.80		
10	QPSK	50	0	17.96	17.91	18.01	17.92	17.71		
10	16QAM	1	0	18.50	18.51	18.66	18.42	18.36		
10	16QAM	1	25	18.39	18.41	18.64	18.40	18.35	21	
10	16QAM	1	49	18.36	18.50	18.62	18.38	18.20		
10	16QAM	25	0	17.05	17.13	17.25	16.99	16.87		
10	16QAM	25	12	16.96	17.09	17.14	16.94	16.80		
10	16QAM	25	25	17.03	16.96	17.16	16.94	16.87	19	
10	16QAM	50	0	17.03	17.10	17.21	16.83	16.70		
10	64QAM	1	0	18.70	18.77	18.85	18.53	18.28		
10	64QAM	1	25	18.70	18.74	18.81	18.53	18.21		
10	64QAM	1	49	18.55	18.72	18.69	18.39	18.27	20	
10	64QAM	25	0	17.05	17.13	17.25	16.99	16.88		
10	64QAM	25	12	16.99	17.11	17.20	16.93	16.87		
10	64QAM	25	25	16.92	17.02	17.07	16.98	16.76		
10	64QAM	50	0	16.88	16.94	17.24	16.94	16.69	19	
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	19.08	19.08	19.1	19.03	18.93	21	
5	QPSK	1	12	19.12	19.02	19.05	18.95	18.85		
5	QPSK	1	24	19.14	19.03	19.07	18.86	18.75		
5	QPSK	12	0	18.05	18.02	18.09	17.99	17.82		
5	QPSK	12	7	17.95	18.02	18.03	17.91	17.71	20	
5	QPSK	12	13	17.95	18.00	17.98	17.98	17.79		
5	QPSK	25	0	17.93	17.82	18.05	17.82	17.78		
5	16QAM	1	0	18.58	18.59	18.66	18.56	18.54		
5	16QAM	1	12	18.52	18.58	18.63	18.51	18.44	21	
5	16QAM	1	24	18.47	18.52	18.53	18.50	18.41		
5	16QAM	12	0	17.07	17.07	17.10	16.99	16.83		
5	16QAM	12	7	17.07	16.99	17.03	16.90	16.79		
5	16QAM	12	13	16.99	16.98	17.00	16.86	16.65	19	
5	16QAM	25	0	16.82	16.95	17.04	16.91	16.67		
5	64QAM	1	0	18.84	18.92	19.02	18.66	18.59		
5	64QAM	1	12	18.83	18.84	18.88	18.58	18.50		
5	64QAM	1	24	18.72	18.76	18.86	18.62	18.53	20	
5	64QAM	12	0	16.87	16.97	17.02	16.95	16.72		
5	64QAM	12	7	16.87	16.96	16.98	16.81	16.68		
5	64QAM	12	13	16.95	16.82	16.96	16.78	16.55		
5	64QAM	25	0	16.77	16.77	16.91	16.82	16.71	19	