



REPORT No . : SZ210040148S01

Annex E1 Conducted Full Power

GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel		128	189	251		128	189	251		
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot		30.93	31.00	31.07	32.00	21.93	22.00	22.07	23.00	0.15
GPRS 1 Tx slot		30.92	30.96	31.00	32.00	21.92	21.96	22.00	23.00	
GPRS 2 Tx slots		28.30	28.32	28.22	29.50	22.30	22.32	22.22	23.50	0.10
GPRS 3 Tx slots		26.41	26.54	26.57	27.50	22.15	22.28	22.31	23.24	0.16
GPRS 4 Tx slots		25.57	25.61	25.40	26.50	22.57	22.61	22.40	23.50	0.21
EDGE 1 Tx slot		26.54	26.51	26.55	27.50	17.54	17.51	17.55	18.50	0.04
EDGE 2 Tx slots		26.38	26.35	26.37	27.50	20.38	20.35	20.37	21.50	0.03
EDGE 3 Tx slots		25.48	25.55	25.37	26.50	21.22	21.29	21.11	22.24	0.18
EDGE 4 Tx slots		24.26	24.42	24.36	25.50	21.26	21.42	21.36	22.50	0.16

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel		512	661	810		512	661	810		
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot		28.25	28.25	28.15	30.00	19.25	19.25	19.15	21.00	0.17
GPRS 1 Tx slot		28.28	28.21	28.11	30.00	19.28	19.21	19.11	21.00	
GPRS 2 Tx slots		25.80	25.67	25.58	27.50	19.80	19.67	19.58	21.50	0.22
GPRS 3 Tx slots		24.29	24.38	24.36	26.00	20.03	20.12	20.10	21.74	0.09
GPRS 4 Tx slots		22.74	22.78	22.67	24.50	19.74	19.78	19.67	21.50	0.11
EDGE 1 Tx slot		25.14	25.00	24.88	26.50	16.14	16.00	15.88	17.50	0.26
EDGE 2 Tx slots		25.09	24.88	24.78	25.50	19.09	18.88	18.78	19.50	0.31
EDGE 3 Tx slots		24.10	23.91	23.81	24.50	19.84	19.65	19.55	20.24	0.29
EDGE 4 Tx slots		22.96	22.77	22.65	23.50	19.96	19.77	19.65	20.50	0.31

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	21.52	21.53	21.50	23.50	21.74	21.82	21.77	23.50	22.81	22.97	22.79	24.50
3GPP Rel 6	HSDPA Subtest-1	20.85	20.83	20.82	22.50	21.25	21.03	20.73	22.80	21.27	21.50	21.62	23.50
3GPP Rel 6	HSDPA Subtest-2	20.83	20.84	20.88	22.00	21.22	21.06	20.47	22.80	21.49	21.53	21.70	23.50
3GPP Rel 6	HSDPA Subtest-3	20.44	20.38	20.32	22.00	20.74	20.61	20.22	22.70	21.03	21.00	21.23	23.00
3GPP Rel 6	HSDPA Subtest-4	20.37	20.28	20.33	22.00	20.82	20.52	20.25	22.70	21.07	21.03	21.27	23.00
3GPP Rel 6	HSUPA Subtest-1	20.79	20.84	20.82	22.50	21.34	21.13	20.79	22.70	21.34	21.55	22.46	23.50
3GPP Rel 6	HSUPA Subtest-2	20.30	20.33	20.31	20.50	20.86	20.70	20.28	21.70	20.83	21.16	22.13	22.50
3GPP Rel 6	HSUPA Subtest-3	20.87	20.87	20.81	21.50	21.31	21.06	20.82	21.70	21.27	21.41	22.41	22.50
3GPP Rel 6	HSUPA Subtest-4	20.84	20.82	20.85	21.50	21.32	21.14	20.83	21.70	21.34	21.54	22.39	22.50
3GPP Rel 6	HSUPA Subtest-5	20.87	20.85	20.83	21.50	21.35	21.15	20.80	21.70	21.35	21.59	22.37	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-	20.90	20.94	20.85	22.50	21.32	21.20	20.63	21.70	21.56	21.72	22.35	23.50

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)				18600	18800	19000	
20	QPSK	1	0	22.26	22.29	22.23	
20	QPSK	1	49	22.24	22.18	22.11	24
20	QPSK	1	99	22.18	22.14	22.12	
20	QPSK	50	0	21.34	21.43	21.36	
20	QPSK	50	24	21.35	21.40	21.40	23
20	QPSK	50	50	21.40	21.38	21.42	
20	QPSK	100	0	21.33	21.42	21.38	
20	16QAM	1	0	21.39	21.39	21.41	23
20	16QAM	1	49	21.23	21.53	21.49	
20	16QAM	1	99	21.48	21.33	21.73	
20	16QAM	50	0	21.41	21.38	21.36	22
20	16QAM	50	24	21.37	21.42	21.43	
20	16QAM	50	50	21.45	21.42	21.49	
20	16QAM	100	0	21.48	21.49	21.36	22
20	64QAM	1	0	21.43	21.62	21.36	
20	64QAM	1	49	21.38	21.56	21.47	
20	64QAM	1	99	21.33	21.66	21.66	22
20	64QAM	50	0	21.43	21.35	21.40	
20	64QAM	50	24	21.46	21.40	21.45	
20	64QAM	50	50	21.45	21.46	21.40	22
20	64QAM	100	0	21.33	21.30	21.31	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.07	22.10	22.01	24
15	QPSK	1	37	21.86	22.22	22.10	
15	QPSK	1	74	22.23	22.15	22.23	
15	QPSK	36	0	21.20	21.29	21.28	23
15	QPSK	36	20	21.19	21.38	21.35	
15	QPSK	36	39	21.31	21.32	21.29	
15	QPSK	75	0	21.23	21.29	21.25	23
15	16QAM	1	0	21.32	21.40	21.34	
15	16QAM	1	37	21.45	21.48	21.34	
15	16QAM	1	74	21.40	21.52	21.52	22
15	16QAM	36	0	21.19	21.24	21.27	
15	16QAM	36	20	21.28	21.21	21.34	
15	16QAM	36	39	21.33	21.42	21.39	22
15	16QAM	75	0	21.20	21.22	21.31	
15	64QAM	1	0	21.40	21.16	21.22	
15	64QAM	1	37	21.39	21.20	21.62	22
15	64QAM	1	74	21.28	21.32	21.47	
15	64QAM	36	0	21.13	21.30	21.18	
15	64QAM	36	20	21.33	21.35	21.25	22
15	64QAM	36	39	21.21	21.26	21.35	
15	64QAM	75	0	21.20	21.27	21.26	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.04	22.03	22.13	24
10	QPSK	1	25	22.15	22.25	22.13	
10	QPSK	1	49	22.04	22.12	22.04	
10	QPSK	25	0	21.31	21.32	21.28	23
10	QPSK	25	12	21.27	21.39	21.32	
10	QPSK	25	25	21.18	21.31	21.27	
10	QPSK	50	0	21.24	21.33	21.31	23
10	16QAM	1	0	21.72	21.65	21.64	
10	16QAM	1	25	21.41	21.37	21.44	
10	16QAM	1	49	21.36	21.44	21.23	22
10	16QAM	25	0	21.26	21.25	21.22	
10	16QAM	25	12	21.42	21.22	21.22	
10	16QAM	25	25	21.22	21.42	21.52	22
10	16QAM	50	0	21.79	21.72	21.76	
10	64QAM	1	0	21.30	21.35	21.35	
10	64QAM	1	25	21.33	21.38	21.42	22
10	64QAM	1	49	21.00	21.13	21.10	
10	64QAM	25	0	21.30	21.34	21.35	
10	64QAM	25	12	21.33	21.31	21.32	22
10	64QAM	25	25	21.26	21.04	21.26	
10	64QAM	50	0	21.27	21.27	21.24	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.18	22.23	22.17	24
5	QPSK	1	12	22.17	22.12	22.15	
5	QPSK	1	24	22.13	22.21	22.22	
5	QPSK	12	0	21.30	21.21	21.28	23
5	QPSK	12	7	21.31	21.36	21.28	
5	QPSK	12	13	21.30	21.29	21.32	
5	QPSK	25	0	21.29	21.27	21.29	23
5	16QAM	1	0	21.42	21.32	21.70	
5	16QAM	1	12	21.40	21.33	21.70	
5	16QAM	1	24	21.43	21.30	21.69	22
5	16QAM	12	0	21.52	21.66	21.52	
5	16QAM	12	7	21.42	21.42	21.22	
5	16QAM	12	13	21.22	21.55	21.32	22
5	16QAM	25	0	21.32	21.78	21.76	
5	64QAM	1	0	21.52	21.24	21.29	
5	64QAM	1	12	21.68	21.34	21.45	22
5	64QAM	1	24	21.69	21.33	21.35	
5	64QAM	12	0	21.34	21.27	21.26	
5	64QAM	12	7	21.40	21.24	21.24	22
5	64QAM	12	13	21.37	21.33	21.31	
5	64QAM	25	0	21.44	21.24	21.31	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.12	22.19	22.11	24
3	QPSK	1	8	22.22	22.25	22.08	
3	QPSK	1	14	22.23	22.10	22.10	
3	QPSK	8	0	21.18	21.13	21.15	23
3	QPSK	8	4	21.24	21.18	21.19	
3	QPSK	8	7	21.24	21.18	21.14	
3	QPSK	15	0	21.16	21.24	21.17	23
3	16QAM	1	0	21.32	21.23	21.17	
3	16QAM	1	0	21.32	21.23	21.17	

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	22.29	22.37	22.36	24
20	QPSK	1	49	22.15	22.23	22.22	
20	QPSK	1	99	22.07	22.20	22.32	
20	QPSK	50	0	21.36	21.49	21.46	23
20	QPSK	50	24	21.36	21.44	21.44	
20	QPSK	50	50	21.25	21.36	21.37	
20	QPSK	100	0	21.35	21.39	21.46	23
20	16QAM	1	0	21.22	21.52	21.39	
20	16QAM	1	49	21.37	21.14	21.28	
20	16QAM	1	99	21.16	21.38	21.22	22
20	16QAM	50	0	21.35	21.28	21.42	
20	16QAM	50	24	21.61	21.72	21.61	
20	16QAM	50	50	21.57	21.58	21.58	22
20	16QAM	100	0	21.59	21.67	21.68	
20	64QAM	1	0	21.33	21.44	21.66	
20	64QAM	1	49	21.37	21.30	21.18	22
20	64QAM	1	99	21.64	21.21	21.68	
20	64QAM	50	0	21.34	21.43	21.38	
20	64QAM	50	24	21.36	21.47	21.41	22
20	64QAM	50	50	21.40	21.35	21.37	
20	64QAM	100	0	21.43	21.41	21.50	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.16	22.20	22.30	24
15	QPSK	1	37	22.20	22.29	22.21	
15	QPSK	1	74	22.07	22.29	22.32	
15	QPSK	36	0	21.30	21.37	21.40	23
15	QPSK	36	20	21.34	21.47	21.43	
15	QPSK	36	39	21.39	21.38	21.47	
15	QPSK	75	0	21.34	21.36	21.37	23
15	16QAM	1	0	21.28	21.50	21.22	
15	16QAM	1	37	21.36	21.36	21.20	
15	16QAM	1	74	21.22	21.52	21.31	22
15	16QAM	36	0	21.23	21.25	21.44	
15	16QAM	36	20	21.18	21.25	21.31	
15	16QAM	36	39	21.14	21.23	21.29	22
15	16QAM	75	0	21.25	21.26	21.35	
15	64QAM	1	0	21.20	21.51	21.56	
15	64QAM	1	37	21.62	21.38	21.44	22
15	64QAM	1	74	21.66	21.37	21.41	
15	64QAM	36	0	21.31	21.38	21.42	
15	64QAM	36	20	21.37	21.39	21.41	22
15	64QAM	36	39	21.40	21.36	21.38	
15	64QAM	75	0	21.33	21.44	21.37	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.08	22.27	22.10	24
10	QPSK	1	25	22.06	22.19	22.20	
10	QPSK	1	49	22.14	21.97	22.20	
10	QPSK	25	0	21.13	21.35	21.37	23
10	QPSK	25	12	21.25	21.31	21.35	
10	QPSK	25	25	21.14	21.25	21.32	
10	QPSK	50	0	21.20	21.30	21.22	23
10	16QAM	1	0	21.19	21.34	21.10	
10	16QAM	1	25	21.46	21.20	21.52	
10	16QAM	1	49	21.53	21.43	21.42	22
10	16QAM	25	0	21.19	21.18	21.17	
10	16QAM	25	12	21.11	21.21	21.18	
10	16QAM	25	25	21.45	21.36	21.45	22
10	16QAM	50	0	21.39	21.43	21.55	
10	64QAM	1	0	21.25	21.33	21.23	
10	64QAM	1	25	21.32	21.61	21.70	22
10	64QAM	1	49	21.30	21.34	21.29	
10	64QAM	25	0	21.14	21.28	21.27	
10	64QAM	25	12	21.23	21.34	21.38	22
10	64QAM	25	25	21.11	21.23	21.25	
10	64QAM	50	0	21.17	21.24	21.23	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	21.98	22.20	22.25	24
5	QPSK	1	12	22.04	22.19	22.16	
5	QPSK	1	24	21.99	22.11	22.10	
5	QPSK	12	0	21.21	21.21	21.25	23
5	QPSK	12	7	21.21	21.32	21.29	
5	QPSK	12	13	21.16	21.33	21.25	
5	QPSK	25	0	21.19	21.23	21.29	23
5	16QAM	1	0	21.09	21.50	21.18	
5	16QAM	1	12	21.20	21.55	21.14	
5	16QAM	1	24	21.14	21.49	21.09	22
5	16QAM	12	0	21.13	21.07	21.10	
5	16QAM	12	7	21.16	21.20	21.18	
5	16QAM	12	13	21.43	21.50	21.54	22
5	16QAM	25	0	21.44	21.55	21.48	
5	64QAM	1	0	21.21	21.65	21.63	
5	64QAM	1	12	21.59	21.35	21.62	22
5	64QAM	1	24	21.55	21.25	21.32	
5	64QAM	12	0	21.22	21.29	21.31	
5	64QAM	12	7	21.21	21.30	21.36	22
5	64QAM	12	13	21.22	21.28	21.27	
5	64QAM	25	0	21.17	21.31	21.22	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.10	22.11	22.23	24
3	QPSK	1	8	22.19	22.33	22.27	
3	QPSK	1	14	21.99	22.18	22.18	
3	QPSK	8	0	21.19	21.25	21.26	23
3	QPSK	8	4	21.25	21.33	21.35	
3	QPSK	8	7	21.21	21.31	21.31	
3	QPSK	15	0	21.21	21.27	21.21	23
3	16QAM	1	0	21.29	21.38	21.42	

3	16QAM	1	8	21.36	21.30	21.26	23
3	16QAM	1	14	21.29	21.26	21.14	
3	16QAM	8	0	21.72	21.85	21.77	
3	16QAM	8	4	21.79	21.76	21.82	
3	16QAM	8	7	21.69	21.74	21.77	22
3	16QAM	15	0	21.72	21.76	21.71	
3	64QAM	1	0	21.25	21.18	21.21	
3	64QAM	1	8	21.67	21.66	21.26	22
3	64QAM	1	14	21.28	21.64	21.28	
3	64QAM	8	0	21.20	21.22	21.06	
3	64QAM	8	4	21.30	21.20	21.20	22
3	64QAM	8	7	21.40	21.29	21.15	
3	64QAM	15	0	21.25	21.25	21.23	
Channel				18607	18900	19193	Tune-up limit
Frequency (MHz)				1850.7	1880	1909.3	(dBm)
1.4	QPSK	1	0	22.18	22.21	22.16	
1.4	QPSK	1	3	22.08	22.06	22.05	
1.4	QPSK	1	5	22.05	22.03	22.01	
1.4	QPSK	3	0	22.05	22.05	22.01	24
1.4	QPSK	3	1	22.09	22.06	22.04	
1.4	QPSK	3	3	22.11	22.15	22.04	
1.4	QPSK	6	0	21.14	21.12	21.11	23
1.4	16QAM	1	0	21.17	21.17	21.11	
1.4	16QAM	1	3	21.13	21.33	21.31	
1.4	16QAM	1	5	21.01	21.21	20.89	
1.4	16QAM	3	0	21.03	21.08	21.05	23
1.4	16QAM	3	1	21.21	21.03	21.08	
1.4	16QAM	3	3	21.23	21.20	20.94	
1.4	16QAM	6	0	21.24	21.17	21.12	22
1.4	64QAM	1	0	21.12	21.04	21.07	
1.4	64QAM	1	3	21.14	21.35	21.23	
1.4	64QAM	1	5	21.12	21.47	21.06	
1.4	64QAM	3	0	21.15	21.21	21.22	22
1.4	64QAM	3	1	21.24	21.21	21.42	
1.4	64QAM	3	3	21.16	21.30	21.07	
1.4	64QAM	6	0	21.21	21.24	21.13	22

3	16QAM	1	8	21.51	21.51	21.25	23
3	16QAM	1	14	21.42	21.20	21.28	
3	16QAM	8	0	21.21	21.22	21.31	
3	16QAM	8	4	21.31	21.31	21.32	22
3	16QAM	8	7	21.53	21.61	21.65	
3	16QAM	15	0	21.53	21.51	21.58	
3	64QAM	1	0	21.20	21.29	21.27	
3	64QAM	1	8	21.39	21.27	21.43	22
3	64QAM	1	14	21.20	21.27	21.10	
3	64QAM	8	0	21.18	21.22	21.16	
3	64QAM	8	4	21.30	21.28	21.32	22
3	64QAM	8	7	21.24	21.31	21.43	
3	64QAM	15	0	21.20	21.28	21.19	
Channel				19957	20175	20393	Tune-up limit
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	21.85	22.06	22.07	
1.4	QPSK	1	3	22.19	22.19	22.23	
1.4	QPSK	1	5	22.05	22.14	22.16	
1.4	QPSK	3	0	22.13	22.10	22.09	24
1.4	QPSK	3	1	22.09	22.19	22.24	
1.4	QPSK	3	3	22.08	22.15	22.14	
1.4	QPSK	6	0	21.24	21.26	21.22	23
1.4	16QAM	1	0	21.18	21.65	21.31	
1.4	16QAM	1	3	21.31	21.39	21.43	
1.4	16QAM	1	5	21.37	21.53	21.33	
1.4	16QAM	3	0	21.40	21.44	21.35	23
1.4	16QAM	3	1	21.41	21.44	21.46	
1.4	16QAM	3	3	21.40	21.52	21.41	
1.4	16QAM	6	0	21.31	21.32	21.23	22
1.4	64QAM	1	0	21.09	21.03	21.17	
1.4	64QAM	1	3	21.35	21.33	21.45	
1.4	64QAM	1	5	21.26	21.22	21.06	
1.4	64QAM	3	0	21.17	21.15	21.34	22
1.4	64QAM	3	1	21.08	21.23	21.20	
1.4	64QAM	3	3	21.14	21.31	21.19	
1.4	64QAM	6	0	21.13	21.14	21.21	22

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	22.31	22.32	22.24	24
10	QPSK	1	25	22.17	22.20	22.00	
10	QPSK	1	49	22.09	22.21	21.89	
10	QPSK	25	0	21.62	21.64	21.45	23
10	QPSK	25	12	21.38	21.40	21.45	
10	QPSK	25	25	21.38	21.49	21.54	
10	QPSK	50	0	21.44	21.32	21.46	23
10	16QAM	1	0	21.48	21.67	21.38	
10	16QAM	1	25	21.71	21.74	21.42	
10	16QAM	1	49	21.54	21.60	21.67	22
10	16QAM	25	0	21.63	21.64	21.46	
10	16QAM	25	12	21.57	21.65	21.43	
10	16QAM	25	25	21.60	21.53	21.56	22
10	16QAM	50	0	21.61	21.52	21.42	
10	64QAM	1	0	21.57	21.67	21.55	
10	64QAM	1	25	21.54	21.74	21.54	22
10	64QAM	1	49	21.43	21.65	21.56	
10	64QAM	25	0	21.54	21.65	21.32	
10	64QAM	25	12	21.53	21.70	21.41	22
10	64QAM	25	25	21.65	21.54	21.24	
10	64QAM	50	0	21.61	21.57	21.43	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.26	22.22	22.20	24
5	QPSK	1	12	22.16	22.27	22.11	
5	QPSK	1	24	22.16	22.11	22.11	
5	QPSK	12	0	21.53	21.58	21.44	23
5	QPSK	12	7	21.60	21.61	21.53	
5	QPSK	12	13	21.65	21.49	21.44	
5	QPSK	25	0	21.56	21.52	21.44	23
5	16QAM	1	0	21.85	21.78	21.54	
5	16QAM	1	12	21.55	21.77	21.53	
5	16QAM	1	24	21.42	21.77	21.60	22
5	16QAM	12	0	21.51	21.60	21.59	
5	16QAM	12	7	21.58	21.61	21.43	
5	16QAM	12	13	21.58	21.49	21.54	22
5	16QAM	25	0	21.59	21.64	21.59	
5	64QAM	1	0	21.66	21.54	21.65	
5	64QAM	1	12	21.54	21.48	21.62	22
5	64QAM	1	24	21.68	21.52	21.46	
5	64QAM	12	0	21.40	21.54	21.34	
5	64QAM	12	7	21.44	21.60	21.38	22
5	64QAM	12	13	21.62	21.57	21.14	
5	64QAM	25	0	21.50	21.57	21.18	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	21.95	22.26	22.11	24
3	QPSK	1	8	22.21	22.22	22.13	
3	QPSK	1	14	22.22	22.20	21.94	
3	QPSK	8	0	21.46	21.59	21.57	23
3	QPSK	8	4	21.60	21.66	21.63	
3	QPSK	8	7	21.55	21.57	21.44	
3	QPSK	15	0	21.53	21.59	21.58	23
3	16QAM	1	0	21.55	21.66	21.73	
3	16QAM	1	8	21.48	21.74	21.58	
3	16QAM	1	14	21.53	21.79	21.54	22
3	16QAM	8	0	21.49	21.58	21.32	
3	16QAM	8	4	21.65	21.76	21.33	
3	16QAM	8	7	21.57	21.63	21.37	22
3	16QAM	15	0	21.51	21.53	21.08	
3	64QAM	1	0	21.46	21.34	21.55	
3	64QAM	1	8	21.34	21.58	21.34	22
3	64QAM	1	14	21.36	21.54	21.35	
3	64QAM	8	0	21.46	21.56	21.54	
3	64QAM	8	4	21.68	21.52	21.46	22
3	64QAM	8	7	21.63	21.55	21.52	
3	64QAM	15	0	21.52	21.62	21.42	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.16	22.23	22.27	24
1.4	QPSK	1	3	22.29	22.22	22.29	
1.4	QPSK	1	5	22.18	22.12	22.13	
1.4	QPSK	3	0	22.19	22.25	22.21	23
1.4	QPSK	3	1	22.25	22.12	22.22	
1.4	QPSK	3	3	22.26	22.18	22.18	
1.4	QPSK	6	0	21.51	21.50	21.49	23
1.4	16QAM	1	0	21.64	21.45	21.62	
1.4	16QAM	1	3	21.44	21.68	21.57	
1.4	16QAM	1	5	21.83	21.51	21.57	23
1.4	16QAM	3	0	21.36	21.34	21.48	
1.4	16QAM	3	1	21.39	21.66	21.52	
1.4	16QAM	3	3	21.47	21.58	21.46	22
1.4	16QAM	6	0	21.66	21.53	21.57	
1.4	64QAM	1	0	21.19	21.36	21.38	
1.4	64QAM	1	3	21.50	21.51	21.46	22
1.4	64QAM	1	5	21.45	21.44	21.32	
1.4	64QAM	3	0	21.11	21.38	21.39	
1.4	64QAM	3	1	21.39	21.33	21.34	22
1.4	64QAM	3	3	21.29	21.46	21.50	
1.4	64QAM	6	0	21.50	21.62	21.51	

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	21.82	21.83	21.75	23.5
20	QPSK	1	49	21.77	21.81	21.70	
20	QPSK	1	99	21.72	21.67	21.72	
20	QPSK	50	0	20.68	20.75	20.72	22.5
20	QPSK	50	24	20.44	20.41	20.31	
20	QPSK	50	50	20.54	20.57	20.54	
20	QPSK	100	0	20.49	20.51	20.48	22.5
20	16QAM	1	0	20.30	20.40	20.58	
20	16QAM	1	49	20.45	20.31	20.59	
20	16QAM	1	99	20.39	20.70	20.35	21.5
20	16QAM	50	0	20.24	20.34	20.27	
20	16QAM	50	24	20.29	20.21	20.32	
20	16QAM	50	50	20.37	20.42	20.25	21.5
20	16QAM	100	0	20.25	20.37	20.35	
20	64QAM	1	0	20.73	20.57	20.30	
20	64QAM	1	49	20.67	20.64	20.69	21.5
20	64QAM	1	99	20.65	20.70	20.61	
20	64QAM	50	0	20.39	20.40	20.45	
20	64QAM	50	24	20.44	20.45	20.45	21.5
20	64QAM	50	50	20.48	20.55	20.40	
20	64QAM	100	0	20.41	20.38	20.50	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	21.65	21.74	21.74	22.5
15	QPSK	1	37	21.75	21.72	21.76	
15	QPSK	1	74	21.69	21.76	21.76	
15	QPSK	36	0	20.47	20.56	20.58	21.5
15	QPSK	36	20	20.55	20.62	20.57	
15	QPSK	36	39	20.58	20.61	20.65	
15	QPSK	75	0	20.64	20.57	20.59	21.5
15	16QAM	1	0	20.80	20.91	20.98	
15	16QAM	1	37	20.62	20.73	20.71	
15	16QAM	1	74	20.66	20.66	20.88	21.5
15	16QAM	36	0	20.25	20.36	20.38	
15	16QAM	36	20	20.32	20.35	20.34	
15	16QAM	36	39	20.38	20.36	20.25	21.5
15	16QAM	75	0	20.33	20.41	20.33	
15	64QAM	1	0	20.63	20.60	20.48	
15	64QAM	1	37	20.53	20.68	20.77	21.5
15	64QAM	1	74	20.52	20.64	20.70	
15	64QAM	36	0	20.37	20.45	20.44	
15	64QAM	36	20	20.48	20.47	20.54	21.5
15	64QAM	36	39	20.52	20.43	20.45	
15	64QAM	75	0	20.37	20.47	20.42	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	21.64	21.51	21.54	22.5
10	QPSK	1	25	21.67	21.57	21.59	
10	QPSK	1	49	21.60	21.57	21.59	
10	QPSK	25	0	20.39	20.39	20.38	21.5
10	QPSK	25	12	20.35	20.47	20.52	
10	QPSK	25	25	20.28	20.46	20.46	
10	QPSK	50	0	20.37	20.49	20.48	21.5
10	16QAM	1	0	20.42	20.60	20.45	
10	16QAM	1	25	20.41	20.43	20.48	
10	16QAM	1	49	20.88	20.78	20.69	21.5
10	16QAM	25	0	20.31	20.19	20.27	
10	16QAM	25	12	20.13	20.30	20.23	
10	16QAM	25	25	20.18	20.21	20.13	21.5
10	16QAM	50	0	20.21	20.30	20.15	
10	64QAM	1	0	20.63	20.59	20.57	
10	64QAM	1	25	20.32	20.57	20.40	21.5
10	64QAM	1	49	20.43	20.67	20.48	
10	64QAM	25	0	20.29	20.27	20.31	
10	64QAM	25	12	20.31	20.42	20.35	21.5
10	64QAM	25	25	20.24	20.14	20.13	
10	64QAM	50	0	20.18	20.24	20.16	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	21.68	21.59	21.49	22.5
5	QPSK	1	12	21.55	21.48	21.56	
5	QPSK	1	24	21.49	21.55	21.59	
5	QPSK	12	0	20.19	20.27	20.19	21.5
5	QPSK	12	7	20.26	20.41	20.33	
5	QPSK	12	13	20.28	20.44	20.29	
5	QPSK	25	0	20.29	20.30	20.25	21.5
5	16QAM	1	0	20.27	20.25	20.31	
5	16QAM	1	12	20.32	20.54	20.44	
5	16QAM	1	24	20.38	20.57	20.39	21.5
5	16QAM	12	0	20.29	20.35	20.26	
5	16QAM	12	7	20.18	20.20	20.16	
5	16QAM	12	13	20.18	20.24	20.37	21.5
5	16QAM	25	0	20.15	20.20	20.22	
5	64QAM	1	0	20.39	20.44	20.40	
5	64QAM	1	12	20.44	20.56	20.44	21.5
5	64QAM	1	24	20.48	20.58	20.54	
5	64QAM	12	0	20.19	20.16	20.21	
5	64QAM	12	7	20.28	20.33	20.12	21.5
5	64QAM	12	13	20.23	20.32	20.18	
5	64QAM	25	0	20.18	20.17	20.22	

LTE Band 12							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.52	22.66	22.57	24
10	QPSK	1	25	22.38	22.51	22.54	
10	QPSK	1	49	22.48	22.49	22.48	
10	QPSK	25	0	21.77	21.87	21.78	23
10	QPSK	25	12	21.74	21.68	21.47	
10	QPSK	25	25	21.79	21.85	21.78	
10	QPSK	50	0	21.80	21.82	21.73	23
10	16QAM	1	0	21.73	21.28	21.41	
10	16QAM	1	25	21.48	21.43	21.57	
10	16QAM	1	49	21.57	21.62	21.51	22.5
10	16QAM	25	0	21.46	21.48	21.42	
10	16QAM	25	12	21.50	21.54	21.43	
10	16QAM	25	25	21.55	21.56	21.50	22.5
10	16QAM	50	0	21.45	21.53	21.58	
10	64QAM	1	0	21.30	21.42	21.76	
10	64QAM	1	25	21.74	21.80	21.39	22.5
10	64QAM	1	49	21.76	21.44	21.37	
10	64QAM	25	0	21.27	21.21	21.18	
10	64QAM	25	12	21.32	21.35	21.27	22.5
10	64QAM	25	25	21.37	21.34	21.34	
10	64QAM	50	0	21.29	21.22	21.33	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.27	22.60	22.38	24
5	QPSK	1	12	22.43	22.59	22.43	
5	QPSK	1	24	22.39	22.58	22.44	
5	QPSK	12	0	21.50	21.57	21.56	23
5	QPSK	12	7	21.61	21.63	21.60	
5	QPSK	12	13	21.56	21.59	21.56	
5	QPSK	25	0	21.52	21.64	21.60	23
5	16QAM	1	0	21.53	21.55	21.57	
5	16QAM	1	12	21.70	21.65	21.66	
5	16QAM	1	24	21.66	21.64	21.60	22.5
5	16QAM	12	0	21.40	21.37	21.40	
5	16QAM	12	7	21.54	21.59	21.43	
5	16QAM	12	13	21.49	21.46	21.51	22.5
5	16QAM	25	0	21.50	21.46	21.48	
5	64QAM	1	0	21.28	21.29	21.34	
5	64QAM	1	12	21.73	21.43	21.36	22.5
5	64QAM	1	24	21.71	21.40	21.45	
5	64QAM	12	0	21.25	21.27	21.22	
5	64QAM	12	7	21.35	21.23	21.29	22.5
5	64QAM	12	13	21.22	21.32	21.37	
5	64QAM	25	0	21.37	21.33	21.30	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.35	22.62	22.29	24
3	QPSK	1	8	22.53	22.52	22.42	
3	QPSK	1	14	22.47	22.58	22.53	
3	QPSK	8	0	21.58	21.56	21.56	23
3	QPSK	8	4	21.61	21.64	21.65	
3	QPSK	8	7	21.56	21.64	21.58	
3	QPSK	15	0	21.55	21.63	21.49	23
3	16QAM	1	0	21.56	21.92	21.51	
3	16QAM	1	8	21.76	21.74	21.69	
3	16QAM	1	14	21.59	21.64	21.50	22.5
3	16QAM	8	0	21.56	21.45	21.48	
3	16QAM	8	4	21.61	21.58	21.69	
3	16QAM	8	7	21.45	21.48	21.54	22.5
3	16QAM	15	0	21.43	21.36	21.35	
3	64QAM	1	0	21.29	21.63	21.62	
3	64QAM	1	8	21.58	21.48	21.49	22.5
3	64QAM	1	14	21.51	21.36	21.47	
3	64QAM	8	0	21.18	21.26	21.17	
3	64QAM	8	4	21.27	21.31	21.30	22.5
3	64QAM	8	7	21.26	21.18	21.33	
3	64QAM	15	0	21.25	21.27	21.19	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.38	22.55	22.35	24
1.4	QPSK	1	3	22.49	22.48	22.50	
1.4	QPSK	1	5	22.38	22.43	22.39	
1.4	QPSK	3	0	22.33	22.46	22.44	23
1.4	QPSK	3	1	22.54	22.54	22.21	
1.4	QPSK	3	3	22.49	22.51	22.47	
1.4	QPSK	6	0	21.55	21.52	21.50	23
1.4	16QAM	1	0	21.59	21.53	21.38	
1.4	16QAM	1	3	21.40	21.83	21.50	
1.4	16QAM	1	5	21.52	21.53	21.52	23
1.4	16QAM	3	0	21.36	21.39	21.40	
1.4	16QAM	3	1	21.52	21.60	21.44	
1.4	16QAM	3	3	21.35	21.49	21.49	22.5
1.4	16QAM	6	0	21.28	21.48	21.38	
1.4	64QAM	1	0	21.13	21.28	21.12	
1.4	64QAM	1	3	21.25	21.18	21.23	22.5
1.4	64QAM	1	5	21.41	21.44	21.40	
1.4	64QAM	3	0	21.31	21.32	21.15	
1.4	64QAM	3	1	21.29	21.53	21.38	22.5
1.4	64QAM	3	3	21.31	21.15	21.31	
1.4	64QAM	6	0	21.27	21.28	21.15	

LTE Band 13							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			Tune-up limit (dBm)
Frequency (MHz)				782			
10	QPSK	1	0		22.25		24
10	QPSK	1	25		22.17		
10	QPSK	1	49		22.22		
10	QPSK	25	0		21.34		23
10	QPSK	25	12		21.15		
10	QPSK	25	25		21.09		
10	QPSK	50	0		21.12		23
10	16QAM	1	0		21.24		
10	16QAM	1	25		21.16		
10	16QAM	1	49		21.46		22
10	16QAM	25	0		21.27		
10	16QAM	25	12		21.22		
10	16QAM	25	25		21.35		22
10	16QAM	50	0		21.12		
10	64QAM	1	0		21.42		
10	64QAM	1	25		21.24		22
10	64QAM	1	49		21.21		
10	64QAM	25	0		21.14		
10	64QAM	25	12		21.07		22
10	64QAM	25	25		21.13		
10	64QAM	50	0		21.20		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	22.14	22.17	22.15	24
5	QPSK	1	12	22.14	22.16	22.12	
5	QPSK	1	24	22.13	22.11	22.04	
5	QPSK	12	0	21.05	21.13	21.22	23
5	QPSK	12	7	21.12	21.11	21.20	
5	QPSK	12	13	21.04	21.20	21.18	
5	QPSK	25	0	21.11	21.08	21.18	23
5	16QAM	1	0	21.18	21.54	21.33	
5	16QAM	1	12	21.24	21.39	21.27	
5	16QAM	1	24	21.34	21.16	21.17	22
5	16QAM	12	0	21.77	21.74	21.67	
5	16QAM	12	7	21.78	21.67	21.79	
5	16QAM	12	13	21.75	21.74	21.78	22
5	16QAM	25	0	21.12	21.16	21.18	
5	64QAM	1	0	21.38	21.36	21.28	
5	64QAM	1	12	21.34	21.24	21.37	22
5	64QAM	1	24	21.35	21.34	21.34	
5	64QAM	12	0	21.17	21.23	21.30	
5	64QAM	12	7	21.34	21.13	21.23	22
5	64QAM	12	13	21.13	21.24	21.14	
5	64QAM	25	0	21.04	21.15	21.15	

LTE Band 14							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23330			24
Frequency (MHz)				793			
10	QPSK	1	0		22.45		24
10	QPSK	1	25		22.37		
10	QPSK	1	49		22.24		
10	QPSK	25	0		21.67		23
10	QPSK	25	12		21.55		
10	QPSK	25	25		21.52		
10	QPSK	50	0		21.57		23
10	16QAM	1	0		21.52		
10	16QAM	1	25		21.55		
10	16QAM	1	49		21.63		23
10	16QAM	25	0		21.31		
10	16QAM	25	12		21.52		
10	16QAM	25	25		21.52		22
10	16QAM	50	0		21.35		
10	64QAM	1	0		21.53		
10	64QAM	1	25		21.49		22
10	64QAM	1	49		21.45		
10	64QAM	25	0		21.49		
10	64QAM	25	12		21.45		2
10	64QAM	25	25		21.19		
10	64QAM	50	0		21.40		
Channel				23305	23330	23355	24
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	22.25	22.35	22.24	24
5	QPSK	1	12	22.26	22.22	22.32	
5	QPSK	1	24	22.27	22.21	22.23	
5	QPSK	12	0	21.38	21.35	21.39	23
5	QPSK	12	7	21.49	21.53	21.54	
5	QPSK	12	13	21.46	21.48	21.45	
5	QPSK	25	0	21.47	21.36	21.40	23
5	16QAM	1	0	21.38	21.31	21.51	
5	16QAM	1	12	21.43	21.35	21.41	
5	16QAM	1	24	21.41	21.32	21.40	22
5	16QAM	12	0	21.34	21.39	21.37	
5	16QAM	12	7	21.49	21.39	21.51	
5	16QAM	12	13	21.45	21.44	21.44	22
5	16QAM	25	0	21.46	21.40	21.44	
5	64QAM	1	0	21.33	21.44	21.27	
5	64QAM	1	12	21.32	21.43	21.28	22
5	64QAM	1	24	21.33	21.33	21.33	
5	64QAM	12	0	21.43	21.20	21.21	
5	64QAM	12	7	21.30	21.23	21.37	22
5	64QAM	12	13	21.28	21.30	21.23	
5	64QAM	25	0	21.24	21.28	21.29	

LTE Band 25							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	24
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	22.36	22.39	22.36	24
20	QPSK	1	49	22.24	22.20	22.26	
20	QPSK	1	99	22.17	22.20	22.15	
20	QPSK	50	0	21.47	21.53	21.45	23
20	QPSK	50	24	21.32	21.26	21.40	
20	QPSK	50	50	21.30	21.30	21.39	
20	QPSK	100	0	21.43	21.30	21.31	23
20	16QAM	1	0	21.16	21.35	21.49	
20	16QAM	1	49	21.37	21.66	21.50	
20	16QAM	1	99	21.33	21.58	21.63	22
20	16QAM	50	0	21.27	21.51	21.50	
20	16QAM	50	24	21.33	21.48	21.46	
20	16QAM	50	50	21.16	21.42	21.47	22
20	16QAM	100	0	21.20	21.49	21.46	
20	64QAM	1	0	21.17	21.50	21.18	
20	64QAM	1	49	21.40	21.30	21.20	22
20	64QAM	1	99	21.14	21.17	21.17	
20	64QAM	50	0	21.32	21.49	21.47	
20	64QAM	50	24	21.24	21.32	21.49	22
20	64QAM	50	50	21.18	21.39	21.55	
20	64QAM	100	0	21.25	21.48	21.49	
Channel				26115	26365	26615	24
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	22.30	22.26	22.22	24
15	QPSK	1	37	22.29	22.25	22.24	
15	QPSK	1	74	22.21	22.27	22.26	
15	QPSK	36	0	21.37	21.55	21.71	23
15	QPSK	36	20	21.49	21.58	21.66	
15	QPSK	36	39	21.32	21.60	21.66	
15	QPSK	75	0	21.35	21.52	21.65	23
15	16QAM	1	0	21.83	21.88	21.60	
15	16QAM	1	37	22.00	21.56	21.93	
15	16QAM	1	74	21.84	21.89	22.05	22
15	16QAM	36	0	21.28	21.31	21.52	
15	16QAM	36	20	21.28	21.35	21.47	
15	16QAM	36	39	21.19	21.44	21.47	22
15	16QAM	75	0	21.29	21.41	21.45	
15	64QAM	1	0	21.09	21.10	21.10	
15	64QAM	1	37	21.13	21.10	21.18	22
15	64QAM	1	74	21.18	21.18	21.10	
15	64QAM	36	0	21.24	21.29	21.53	
15	64QAM	36	20	21.37	21.45	21.39	22
15	64QAM	36	39	21.22	21.40	21.42	
15	64QAM	75	0	21.19	21.38	21.54	
Channel				26090	26365	26640	24
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	22.30	22.31	22.22	24
10	QPSK	1	25	22.25	22.19	22.18	
10	QPSK	1	49	22.28	22.26	22.18	
10	QPSK	25	0	21.62	21.54	21.48	23
10	QPSK	25	12	21.45	21.60	21.48	
10	QPSK	25	25	21.47	21.59	21.26	
10	QPSK	50	0	21.63	21.59	21.70	23
10	16QAM	1	0	21.58	21.48	21.73	
10	16QAM	1	25	21.52	21.30	21.76	
10	16QAM	1	49	21.50	21.73	21.73	22
10	16QAM	25	0	21.50	21.29	21.69	
10	16QAM	25	12	21.27	21.38	21.49	
10	16QAM	25	25	21.37	21.33	21.39	22
10	16QAM	50	0	21.28	21.45	21.19	
10	64QAM	1	0	21.17	21.40	21.27	
10	64QAM	1	25	21.10	21.20	21.38	22
10	64QAM	1	49	21.17	21.22	21.45	
10	64QAM	25	0	21.23	21.34	21.55	
10	64QAM	25	12	21.24	21.45	21.56	22
10	64QAM	25	25	21.22	21.46	21.60	
10	64QAM	50	0	21.25	21.35	21.48	
Channel				26065	26365	26665	24
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	22.24	22.29	22.26	24
5	QPSK	1	12	22.22	22.22	22.21	
5	QPSK	1	24	22.28	22.26	22.24	
5	QPSK	12	0	21.67	21.41	21.67	23
5	QPSK	12	7	21.80	21.66	21.77	
5	QPSK	12	13	21.37	21.76	21.69	
5	QPSK	25	0	21.74	21.53	21.70	23
5	16QAM	1	0	21.74	21.44	21.63	
5	16QAM	1	12	21.46	21.30	21.74	
5	16QAM	1	24	21.37	21.39	21.73	22
5	16QAM	12	0	21.24	21.22	21.58	
5	16QAM	12	7	21.27	21.39	21.35	
5	16QAM	12	13	21.24	21.35	21.50	22
5	16QAM	25	0	21.15	21.32	21.42	
5	64QAM	1	0	21.12	21.36	21.39	
5	64QAM	1	12	21.17	21.20	21.19	22
5	64QAM	1	24	21.20	21.10	21.18	
5	64QAM	12	0	21.19	21.31	21.46	
5	64QAM	12	7	21.20	21.48	21.55	22
5	64QAM	12	13	21.13	21.38	21.47	
5	64QAM	25	0	21.19	21.36	21.51	
Channel				26055	26365	26675	24
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	22.23	22.25	22.27	24
3	QPSK	1	8	22.26	22.21	22.25	
3	QPSK	1	14	22.14	22.22	22.15	
3	QPSK	8	0	21.32	21.45	21.51	23
3	QPSK	8	4	21.47	21.44	21.62	
3	QPSK	8	7	21.31	21.45	21.54	
3	QPSK	15	0	21.38	21.44	21.58	23
3	16QAM	1	0	21.44	21.52	21.68	

3	16QAM	1	8	21.72	21.68	21.52	23
3	16QAM	1	14	21.78	21.68	21.63	
3	16QAM	8	0	21.22	21.22	21.22	
3	16QAM	8	4	21.22	21.38	21.57	22
3	16QAM	8	7	21.33	21.52	21.58	
3	16QAM	15	0	21.37	21.27	21.48	
3	64QAM	1	0	21.42	21.24	21.39	
3	64QAM	1	8	21.46	21.17	21.18	22
3	64QAM	1	14	21.37	21.18	21.20	
3	64QAM	8	0	21.25	21.35	21.51	
3	64QAM	8	4	21.20	21.40	21.47	22
3	64QAM	8	7	21.18	21.24	21.58	
3	64QAM	15	0	21.17	21.25	21.46	
Channel				26047	26365	26683	Tune-up limit
Frequency (MHz)				1890.7	1882.5	1914.3	(dBm)
1.4	QPSK	1	0	22.24	22.24	22.22	
1.4	QPSK	1	3	22.21	22.22	22.16	
1.4	QPSK	1	5	22.16	22.22	22.13	24
1.4	QPSK	3	0	22.11	22.15	22.24	
1.4	QPSK	3	1	22.14	22.18	22.21	
1.4	QPSK	3	3	22.19	22.12	22.16	
1.4	QPSK	6	0	21.43	21.60	21.42	23
1.4	16QAM	1	0	21.74	21.56	21.26	
1.4	16QAM	1	3	21.52	21.26	21.51	
1.4	16QAM	1	5	21.26	21.52	21.63	
1.4	16QAM	3	0	21.49	21.51	21.53	22
1.4	16QAM	3	1	21.53	21.68	21.74	
1.4	16QAM	3	3	21.30	21.54	21.78	
1.4	16QAM	6	0	21.40	21.53	21.20	22
1.4	64QAM	1	0	21.20	21.50	21.37	
1.4	64QAM	1	3	21.18	21.53	21.20	
1.4	64QAM	1	5	21.19	21.60	21.39	22
1.4	64QAM	3	0	21.26	21.38	21.20	
1.4	64QAM	3	1	21.17	21.20	21.18	
1.4	64QAM	3	3	21.42	21.18	21.50	
1.4	64QAM	6	0	21.23	21.41	21.46	22

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	22.20	22.24	22.21	24
15	QPSK	1	37	22.18	22.15	22.21	
15	QPSK	1	74	22.16	22.14	22.16	
15	QPSK	36	0	21.52	21.60	21.48	23
15	QPSK	36	20	21.41	21.35	21.20	
15	QPSK	36	39	21.43	21.22	21.28	
15	QPSK	75	0	21.49	21.23	21.30	23
15	16QAM	1	0	21.21	21.36	21.64	
15	16QAM	1	37	21.17	21.28	21.42	
15	16QAM	1	74	21.32	21.21	21.22	22
15	16QAM	36	0	21.32	21.18	21.21	
15	16QAM	36	20	21.27	21.07	21.22	
15	16QAM	36	39	21.34	21.14	21.22	22
15	16QAM	75	0	21.22	21.24	21.24	
15	64QAM	1	0	20.64	20.51	20.33	22
15	64QAM	1	37	20.29	20.33	20.43	
15	64QAM	1	74	20.33	20.29	20.61	
15	64QAM	36	0	20.69	20.50	20.49	21
15	64QAM	36	20	20.78	20.50	20.41	
15	64QAM	36	39	20.76	20.56	20.32	
15	64QAM	75	0	20.70	20.53	20.46	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	Tune-up limit (dBm)
10	QPSK	1	0	22.12	22.16	22.13	24
10	QPSK	1	25	22.15	22.14	22.07	
10	QPSK	1	49	22.01	22.14	22.06	
10	QPSK	25	0	21.54	21.35	21.21	23
10	QPSK	25	12	21.50	21.32	21.11	
10	QPSK	25	25	21.49	21.33	21.18	
10	QPSK	50	0	21.50	21.38	21.20	23
10	16QAM	1	0	21.22	21.54	21.31	
10	16QAM	1	25	21.31	21.40	21.45	
10	16QAM	1	49	21.25	21.24	21.22	22
10	16QAM	25	0	21.26	21.40	21.69	
10	16QAM	25	12	21.27	21.43	21.51	
10	16QAM	25	25	21.44	21.32	21.38	22
10	16QAM	50	0	21.61	21.48	21.50	
10	64QAM	1	0	20.59	20.59	20.41	
10	64QAM	1	25	20.69	20.41	20.43	22
10	64QAM	1	49	20.41	20.40	20.40	
10	64QAM	25	0	20.76	20.53	20.48	21
10	64QAM	25	12	20.52	20.54	20.47	
10	64QAM	25	25	20.42	20.55	20.30	
10	64QAM	50	0	20.72	20.51	20.44	
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	Tune-up limit (dBm)
5	QPSK	1	0	22.11	22.16	22.12	24
5	QPSK	1	12	22.06	22.10	22.12	
5	QPSK	1	24	22.02	22.14	22.14	
5	QPSK	12	0	21.48	21.30	21.19	23
5	QPSK	12	7	21.58	21.29	21.29	
5	QPSK	12	13	21.47	21.24	21.18	
5	QPSK	25	0	21.51	21.32	21.37	23
5	16QAM	1	0	21.22	21.22	21.23	
5	16QAM	1	12	21.26	21.16	21.13	
5	16QAM	1	24	21.31	21.31	21.36	22
5	16QAM	12	0	21.59	21.41	21.39	
5	16QAM	12	7	21.44	21.46	21.15	
5	16QAM	12	13	21.56	21.41	21.20	22
5	16QAM	25	0	21.11	21.25	21.22	
5	64QAM	1	0	20.60	20.42	20.40	
5	64QAM	1	12	20.49	20.60	20.41	22
5	64QAM	1	24	20.43	20.40	20.40	
5	64QAM	12	0	20.70	20.48	20.31	21
5	64QAM	12	7	20.29	20.61	20.32	
5	64QAM	12	13	20.69	20.58	20.24	
5	64QAM	25	0	20.69	20.48	20.30	
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	22.15	22.12	22.17	24
3	QPSK	1	8	22.06	22.14	22.06	
3	QPSK	1	14	22.11	22.07	22.13	
3	QPSK	8	0	21.38	21.22	21.41	23
3	QPSK	8	4	21.55	21.29	21.18	
3	QPSK	8	7	21.55	21.28	21.39	
3	QPSK	15	0	21.40	21.20	21.30	23
3	16QAM	1	0	21.51	21.45	21.46	
3	16QAM	1	8	21.50	21.39	21.42	
3	16QAM	1	14	21.48	21.33	21.33	22
3	16QAM	8	0	21.57	21.20	21.27	
3	16QAM	8	4	21.51	21.18	21.22	
3	16QAM	8	7	21.27	21.24	21.18	22
3	16QAM	15	0	21.34	21.21	21.31	
3	64QAM	1	0	20.29	20.73	20.52	
3	64QAM	1	8	20.59	20.69	20.43	22
3	64QAM	1	14	20.53	20.69	20.59	
3	64QAM	8	0	20.42	20.47	20.37	21
3	64QAM	8	4	20.42	20.51	20.37	
3	64QAM	8	7	20.69	20.57	20.36	
3	64QAM	15	0	20.69	20.55	20.34	
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	Tune-up limit (dBm)
1.4	QPSK	1	0	22.02	22.12	22.12	24
1.4	QPSK	1	3	22.01	22.12	22.04	
1.4	QPSK	1	5	22.01	22.03	22.03	
1.4	QPSK	3	0	22.15	22.03	22.05	
1.4	QPSK	3	1	22.06	22.06	22.11	
1.4	QPSK	3	3	22.06	22.12	22.14	23
1.4	QPSK	6	0	21.16	21.38	21.41	
1.4	16QAM	1	0	21.21	21.28	21.28	

LTE Band 30							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		22.39		24
10	QPSK	1	25		22.34		
10	QPSK	1	49		22.38		
10	QPSK	25	0		21.57		23
10	QPSK	25	12		21.46		
10	QPSK	25	25		21.44		
10	QPSK	50	0		21.55		23
10	16QAM	1	0		21.52		
10	16QAM	1	25		21.43		
10	16QAM	1	49		21.69		22
10	16QAM	25	0		21.55		
10	16QAM	25	12		21.54		
10	16QAM	25	25		21.52		22
10	16QAM	50	0		21.48		
10	64QAM	1	0		21.25		
10	64QAM	1	25		21.33		22
10	64QAM	1	49		21.32		
10	64QAM	25	0		21.22		22
10	64QAM	25	12		21.47		
10	64QAM	25	25		21.50		
10	64QAM	50	0		21.48		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.22	22.33	22.20	24
5	QPSK	1	12	22.28	22.27	22.37	
5	QPSK	1	24	22.21	22.17	22.34	
5	QPSK	12	0	21.55	21.62	21.56	23
5	QPSK	12	7	21.73	21.60	21.52	
5	QPSK	12	13	21.58	21.51	21.54	
5	QPSK	25	0	21.63	21.47	21.53	23
5	16QAM	1	0	21.62	21.69	21.55	
5	16QAM	1	12	21.50	21.65	21.33	
5	16QAM	1	24	21.61	21.26	21.36	22
5	16QAM	12	0	21.29	21.36	21.53	
5	16QAM	12	7	21.32	21.36	21.37	
5	16QAM	12	13	21.29	21.48	21.46	22
5	16QAM	25	0	21.37	21.47	21.59	
5	64QAM	1	0	21.36	21.32	21.26	
5	64QAM	1	12	21.23	21.32	21.23	22
5	64QAM	1	24	21.36	21.32	21.32	
5	64QAM	12	0	21.32	21.36	21.25	22
5	64QAM	12	7	21.32	21.49	21.29	
5	64QAM	12	13	21.50	21.48	21.51	
5	64QAM	25	0	21.53	21.52	21.47	

1.4	16QAM	1	3	21.28	21.22	21.22	23
1.4	16QAM	1	5	21.37	21.51	21.32	
1.4	16QAM	3	0	21.38	21.14	21.39	
1.4	16QAM	3	1	21.38	21.17	21.30	
1.4	16QAM	3	3	21.38	21.15	21.11	
1.4	16QAM	6	0	21.74	21.71	21.69	22
1.4	64QAM	1	0	20.63	20.60	20.65	22
1.4	64QAM	1	3	20.69	20.69	20.69	
1.4	64QAM	1	5	20.59	20.62	20.73	
1.4	64QAM	3	0	20.68	20.69	20.69	
1.4	64QAM	3	1	20.73	20.61	20.65	
1.4	64QAM	3	3	20.65	20.69	20.60	21
1.4	64QAM	6	0	20.72	20.65	20.36	

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	22.36	22.42	22.40	24
20	QPSK	1	49	22.21	22.20	22.16	
20	QPSK	1	99	22.14	22.13	22.16	
20	QPSK	50	0	21.59	21.66	21.62	23
20	QPSK	50	24	21.40	21.42	21.55	
20	QPSK	50	50	21.44	21.52	21.40	
20	QPSK	100	0	21.42	21.42	21.34	23
20	16QAM	1	0	21.47	21.23	21.51	
20	16QAM	1	49	21.52	21.26	21.32	
20	16QAM	1	99	21.52	21.70	21.49	22
20	16QAM	50	0	21.64	21.61	21.58	
20	16QAM	50	24	21.53	21.53	21.54	
20	16QAM	50	50	21.50	21.42	21.38	22
20	16QAM	100	0	21.46	21.49	21.55	
20	64QAM	1	0	21.62	21.39	21.72	
20	64QAM	1	49	21.39	21.72	21.71	22
20	64QAM	1	99	21.62	21.74	21.82	
20	64QAM	50	0	21.58	21.48	21.61	
20	64QAM	50	24	21.52	21.46	21.58	22
20	64QAM	50	50	21.54	21.42	21.48	
20	64QAM	100	0	21.53	21.53	21.51	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.22	22.26	22.24	24
15	QPSK	1	37	22.36	22.22	22.20	
15	QPSK	1	74	22.20	22.16	22.14	
15	QPSK	36	0	21.41	21.38	21.42	23
15	QPSK	36	20	21.41	21.33	21.43	
15	QPSK	36	39	21.27	21.32	21.29	
15	QPSK	75	0	21.36	21.40	21.33	23
15	16QAM	1	0	21.35	21.22	21.52	
15	16QAM	1	37	21.22	21.52	21.45	
15	16QAM	1	74	21.32	21.22	21.22	22
15	16QAM	36	0	21.53	21.53	21.44	
15	16QAM	36	20	21.56	21.55	21.61	
15	16QAM	36	39	21.48	21.63	21.57	22
15	16QAM	75	0	21.58	21.56	21.52	
15	64QAM	1	0	21.72	21.62	21.72	
15	64QAM	1	37	21.74	21.52	21.62	22
15	64QAM	1	74	21.39	21.65	21.72	
15	64QAM	36	0	21.51	21.50	21.63	
15	64QAM	36	20	21.61	21.57	21.58	22
15	64QAM	36	39	21.50	21.44	21.48	
15	64QAM	75	0	21.52	21.54	21.51	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.20	22.20	22.21	24
10	QPSK	1	25	22.10	22.08	22.16	
10	QPSK	1	49	22.24	22.12	22.02	
10	QPSK	25	0	21.67	21.60	21.67	23
10	QPSK	25	12	21.64	21.83	21.61	
10	QPSK	25	25	21.65	21.61	21.53	
10	QPSK	50	0	21.73	21.58	21.77	23
10	16QAM	1	0	21.65	21.65	21.85	
10	16QAM	1	25	21.65	21.74	21.86	
10	16QAM	1	49	21.48	21.68	21.56	22
10	16QAM	25	0	21.49	21.66	21.54	
10	16QAM	25	12	21.48	21.68	21.59	
10	16QAM	25	25	21.39	21.44	21.44	22
10	16QAM	50	0	21.55	21.59	21.60	
10	64QAM	1	0	21.55	21.55	21.22	
10	64QAM	1	25	21.22	21.35	21.25	22
10	64QAM	1	49	21.22	21.22	21.22	
10	64QAM	25	0	21.55	21.53	21.55	
10	64QAM	25	12	21.54	21.58	21.62	22
10	64QAM	25	25	21.54	21.47	21.49	
10	64QAM	50	0	21.44	21.54	21.55	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.09	22.12	22.17	24
5	QPSK	1	12	22.12	22.12	22.11	
5	QPSK	1	24	22.20	22.10	22.16	
5	QPSK	12	0	21.36	21.38	21.34	23
5	QPSK	12	7	21.38	21.46	21.39	
5	QPSK	12	13	21.29	21.35	21.36	
5	QPSK	25	0	21.39	21.40	21.39	23
5	16QAM	1	0	21.88	21.57	21.58	
5	16QAM	1	12	21.51	21.80	21.75	
5	16QAM	1	24	21.63	21.52	21.87	22
5	16QAM	12	0	21.52	21.63	21.59	
5	16QAM	12	7	21.69	21.61	21.73	
5	16QAM	12	13	21.60	21.54	21.61	22
5	16QAM	25	0	21.61	21.63	21.55	
5	64QAM	1	0	21.22	21.62	21.42	
5	64QAM	1	12	21.52	21.52	21.52	22
5	64QAM	1	24	21.35	21.39	21.35	
5	64QAM	12	0	21.59	21.34	21.55	
5	64QAM	12	7	21.67	21.26	21.57	22
5	64QAM	12	13	21.50	21.62	21.57	
5	64QAM	25	0	21.57	21.65	21.52	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.16	22.07	22.06	24
3	QPSK	1	8	22.03	22.04	22.12	
3	QPSK	1	14	21.94	21.75	22.05	
3	QPSK	8	0	21.62	21.59	21.63	23
3	QPSK	8	4	21.62	21.54	21.64	
3	QPSK	8	7	21.48	21.53	21.50	
3	QPSK	15	0	21.57	21.61	21.54	23
3	16QAM	1	0	21.26	21.67	21.43	

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	22.41	22.48	22.45	24
20	QPSK	1	49	22.40	22.42	22.42	
20	QPSK	1	99	22.32	22.38	22.35	
20	QPSK	50	0	21.52	21.74	21.60	23
20	QPSK	50	24	21.45	21.52	21.48	
20	QPSK	50	50	21.49	21.54	21.48	
20	QPSK	100	0	21.37	21.48	21.51	23
20	16QAM	1	0	21.49	21.49	21.42	
20	16QAM	1	49	21.48	21.08	21.48	
20	16QAM	1	99	21.42	21.41	21.52	22
20	16QAM	50	0	21.27	21.41	21.02	
20	16QAM	50	24	21.38	21.20	21.11	
20	16QAM	50	50	21.37	21.01	21.05	22
20	16QAM	100	0	21.38	21.41	21.07	
20	64QAM	1	0	21.19	21.47	21.50	
20	64QAM	1	49	21.19	21.38	21.48	22
20	64QAM	1	99	21.21	21.48	21.52	
20	64QAM	50	0	21.20	21.19	21.08	
20	64QAM	50	24	21.22	21.18	21.17	22
20	64QAM	50	50	21.20	20.97	21.19	
20	64QAM	100	0	21.20	21.16	21.07	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.14	22.32	22.33	24
15	QPSK	1	37	22.12	22.25	22.36	
15	QPSK	1	74	22.14	22.36	22.33	
15	QPSK	36	0	21.23	21.48	21.52	23
15	QPSK	36	20	21.43	21.52	21.48	
15	QPSK	36	39	21.50	21.48	21.41	
15	QPSK	75	0	21.38	21.38	21.39	23
15	16QAM	1	0	21.46	21.48	21.38	
15	16QAM	1	37	21.48	21.52	21.20	
15	16QAM	1	74	21.49	21.39	21.19	22
15	16QAM	36	0	21.26	21.22	21.11	
15	16QAM	36	20	21.24	21.38	21.15	
15	16QAM	36	39	21.26	21.28	21.13	22
15	16QAM	75	0	21.22	21.17	21.11	
15	64QAM	1	0	21.33	21.22	21.38	
15	64QAM	1	37	21.21	21.22	21.20	22
15	64QAM	1	74	21.16	21.24	21.41	
15	64QAM	36	0	21.08	21.23	21.16	
15	64QAM	36	20	21.36	21.22	21.10	22
15	64QAM	36	39	21.20	21.20	21.21	
15	64QAM	75	0	21.38	21.20	21.24	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	22.17	22.36	22.15	24
10	QPSK	1	25	22.28	22.15	22.35	
10	QPSK	1	49	22.29	22.31	22.04	
10	QPSK	25	0	21.22	21.08	21.08	23
10	QPSK	25	12	21.45	21.41	21.12	
10	QPSK	25	25	21.46	21.48	21.08	
10	QPSK	50	0	21.44	21.36	21.08	23
10	16QAM	1	0	21.30	21.07	21.38	
10	16QAM	1	25	21.18	21.08	21.48	
10	16QAM	1	49	21.55	21.11	21.20	22
10	16QAM	25	0	21.08	21.19	21.15	
10	16QAM	25	12	21.38	21.08	21.21	
10	16QAM	25	25	21.08	21.22	21.27	22
10	16QAM	50	0	21.20	21.24	21.16	
10	64QAM	1	0	21.20	21.23	21.16	
10	64QAM	1	25	21.11	21.36	21.26	22
10	64QAM	1	49	21.47	21.21	21.26	
10	64QAM	25	0	21.06	21.06	21.16	
10	64QAM	25	12	21.06	21.26	21.27	22
10	64QAM	25	25	21.02	21.22	21.18	
10	64QAM	50	0	21.08	21.24	21.14	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	22.21	22.31	22.15	24
5	QPSK	1	12	22.15	22.36	22.34	
5	QPSK	1	24	22.15	22.14	22.13	
5	QPSK	12	0	21.35	21.83	21.42	23
5	QPSK	12	7	21.49	21.48	21.48	
5	QPSK	12	13	21.37	21.39	21.41	
5	QPSK	25	0	21.41	21.42	21.08	23
5	16QAM	1	0	21.37	21.48	21.38	
5	16QAM	1	12	21.20	21.38	21.08	
5	16QAM	1	24	21.20	21.21	21.20	22
5	16QAM	12	0	21.21	21.26	21.20	
5	16QAM	12	7	21.20	21.22	21.20	
5	16QAM	12	13	21.11	21.23	21.20	22
5	16QAM	25	0	21.38	21.10	21.28	
5	64QAM	1	0	21.14	21.47	21.08	
5	64QAM	1	12	21.41	21.41	21.48	22
5	64QAM	1	24	21.41	21.41	21.38	
5	64QAM	12	0	21.12	21.24	21.20	
5	64QAM	12	7	21.21	21.22	21.13	22
5	64QAM	12	13	21.20	21.23	21.10	
5	64QAM	25	0	21.24	21.26	21.17	

3	16QAM	1	8	21.59	21.53	21.52	23
3	16QAM	1	14	21.63	21.52	21.22	
3	16QAM	8	0	21.44	21.44	21.35	
3	16QAM	8	4	21.47	21.46	21.52	22
3	16QAM	8	7	21.39	21.54	21.48	
3	16QAM	15	0	21.49	21.47	21.43	
3	64QAM	1	0	21.63	21.53	21.63	
3	64QAM	1	8	21.65	21.43	21.53	22
3	64QAM	1	14	21.30	21.56	21.63	
3	64QAM	8	0	21.42	21.41	21.54	
3	64QAM	8	4	21.52	21.48	21.49	22
3	64QAM	8	7	21.41	21.35	21.39	
3	64QAM	15	0	21.43	21.45	21.42	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.10	22.01	22.02	
1.4	QPSK	1	3	22.16	22.18	22.18	
1.4	QPSK	1	5	22.08	21.96	22.12	
1.4	QPSK	3	0	22.07	22.00	22.07	24
1.4	QPSK	3	1	22.04	22.10	22.01	
1.4	QPSK	3	3	22.05	22.01	21.93	
1.4	QPSK	6	0	21.65	21.50	21.69	23
1.4	16QAM	1	0	21.57	21.57	21.77	
1.4	16QAM	1	3	21.57	21.66	21.78	
1.4	16QAM	1	5	21.40	21.60	21.48	23
1.4	16QAM	3	0	21.11	21.08	21.34	
1.4	16QAM	3	1	21.20	21.10	21.22	
1.4	16QAM	3	3	21.21	21.22	21.16	
1.4	16QAM	6	0	21.10	21.01	21.02	22
1.4	64QAM	1	0	21.44	21.29	21.45	
1.4	64QAM	1	3	21.17	21.26	21.26	
1.4	64QAM	1	5	21.14	21.14	21.25	22
1.4	64QAM	3	0	21.47	21.45	21.47	
1.4	64QAM	3	1	21.46	21.50	21.54	
1.4	64QAM	3	3	21.46	21.39	21.41	
1.4	64QAM	6	0	21.36	21.46	21.47	22

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						
Frequency (MHz)				39750	40185	40620	41055	41490	Tune-up limit (dBm)	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	21.56	21.66	21.68	21.61	21.62	23	
20	QPSK	1	49	21.52	21.61	21.61	21.62	21.62		
20	QPSK	1	99	21.46	21.62	21.57	21.67	21.42		
20	QPSK	50	0	20.52	20.77	20.78	20.76	20.71		
20	QPSK	50	24	20.52	20.62	20.55	20.52	20.52	23	
20	QPSK	50	50	20.55	20.76	20.56	20.55	20.62		
20	QPSK	100	0	20.52	20.55	20.62	20.56	20.52		
20	16QAM	1	0	20.56	20.72	20.55	20.62	20.52		
20	16QAM	1	49	20.55	20.60	20.55	20.50	20.52	23	
20	16QAM	1	99	20.62	20.52	20.62	20.60	20.62		
20	16QAM	50	0	20.53	20.62	20.55	20.85	20.52		
20	16QAM	50	24	20.51	20.83	20.52	20.62	20.52		
20	16QAM	50	50	20.57	20.89	20.98	20.59	20.62	21.5	
20	16QAM	100	0	20.51	20.82	20.97	20.66	20.55		
20	64QAM	1	0	20.66	20.57	20.77	20.60	20.56		
20	64QAM	1	49	20.59	20.69	20.59	20.88	20.56		
20	64QAM	1	99	20.69	20.64	20.55	20.64	20.52	21.5	
20	64QAM	50	0	20.65	20.61	20.58	20.53	20.62		
20	64QAM	50	24	20.50	20.77	20.65	20.62	20.55		
20	64QAM	50	50	20.60	20.76	20.79	20.68	20.61		
20	64QAM	100	0	20.58	20.86	20.82	20.50	20.62	21.5	
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Tune-up limit (dBm)	
15	QPSK	1	0	21.22	21.38	21.58	21.45	21.44	23	
15	QPSK	1	37	21.21	21.56	21.62	21.45	21.55		
15	QPSK	1	74	21.21	21.54	21.55	21.38	21.35		
15	QPSK	36	0	20.38	20.72	20.57	20.77	21.38		
15	QPSK	36	20	20.43	20.77	20.53	20.73	21.45	23	
15	QPSK	36	39	20.59	20.80	20.52	20.76	21.40		
15	QPSK	75	0	20.37	20.82	20.55	20.79	21.37		
15	16QAM	1	0	20.31	20.63	20.92	20.57	20.37		
15	16QAM	1	37	20.52	20.80	20.49	20.63	20.46	23	
15	16QAM	1	74	20.48	20.72	20.06	20.47	20.39		
15	16QAM	36	0	20.35	20.79	20.46	20.66	20.84		
15	16QAM	36	20	20.40	20.73	20.42	20.62	20.86		
15	16QAM	36	39	20.47	20.86	20.96	20.66	20.62	21.5	
15	16QAM	75	0	20.38	20.87	20.44	20.66	20.22		
15	64QAM	1	0	20.68	20.58	20.82	20.46	20.96		
15	64QAM	1	37	20.96	20.72	20.96	20.59	20.08		
15	64QAM	1	74	20.93	20.65	20.75	20.93	19.81	21.5	
15	64QAM	36	0	20.37	20.71	20.53	20.67	20.45		
15	64QAM	36	20	20.52	20.82	20.97	20.60	20.34		
15	64QAM	36	39	20.47	20.81	20.94	20.66	20.26		
15	64QAM	75	0	20.45	20.82	20.94	20.70	20.34		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.26	21.47	21.55	21.43	21.42	23	
10	QPSK	1	25	21.46	21.52	21.42	21.38	21.37		
10	QPSK	1	49	21.23	21.39	21.62	21.62	21.38		
10	QPSK	25	0	20.34	20.77	20.65	20.81	20.62		
10	QPSK	25	12	20.42	20.76	20.54	20.81	20.62	23	
10	QPSK	25	25	20.46	20.85	20.49	20.85	20.98		
10	QPSK	50	0	20.51	20.89	20.57	20.83	20.22		
10	16QAM	1	0	20.37	20.24	20.39	20.64	20.42		
10	16QAM	1	25	20.55	20.33	20.54	20.47	20.46	23	
10	16QAM	1	49	20.41	20.29	20.46	20.60	20.61		
10	16QAM	25	0	20.41	20.32	20.60	20.78	20.27		
10	16QAM	25	12	20.54	20.29	20.46	20.72	20.03		
10	16QAM	25	25	20.51	20.36	20.58	20.85	20.54	21.5	
10	16QAM	50	0	20.49	20.32	20.56	20.74	20.30		
10	64QAM	1	0	20.31	20.67	20.27	20.61	20.67		
10	64QAM	1	25	20.34	20.79	20.44	20.66	20.62		
10	64QAM	1	49	20.32	20.68	20.31	20.57	20.43	21.5	
10	64QAM	25	0	20.39	20.62	20.52	20.70	20.59		
10	64QAM	25	12	20.42	20.79	20.41	20.70	20.34		
10	64QAM	25	25	20.51	20.83	20.50	20.67	20.57		
10	64QAM	50	0	20.47	20.80	20.55	20.76	20.63		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5		
5	QPSK	1	0	21.23	21.32	21.55	21.52	21.33	23	
5	QPSK	1	12	21.22	21.47	21.42	21.55	21.37		
5	QPSK	1	24	21.35	21.38	21.52	21.25	21.38		
5	QPSK	12	0	20.36	20.70	20.74	20.83	20.34		
5	QPSK	12	7	20.44	20.83	20.59	20.89	20.56	23	
5	QPSK	12	13	20.38	20.83	20.81	20.95	20.62		
5	QPSK	25	0	20.41	20.84	20.82	20.97	20.55		
5	16QAM	1	0	20.85	20.67	20.83	20.52	20.46		
5	16QAM	1	12	20.46	20.84	21.00	20.68	20.36	23	
5	16QAM	1	24	20.32	20.70	20.81	20.53	20.62		
5	16QAM	12	0	20.30	20.25	20.47	20.65	20.42		
5	16QAM	12	7	20.42	20.20	20.57	20.76	20.55		
5	16QAM	12	13	20.48	20.33	20.47	20.69	20.34	21.5	
5	16QAM	25	0	20.40	20.21	20.55	20.76	20.32		
5	64QAM	1	0	20.67	20.52	20.79	20.54	20.37		
5	64QAM	1	12	20.87	20.73	20.92	20.63	20.33		
5	64QAM	1	24	20.72	20.58	20.85	20.49	20.66	21.5	
5	64QAM	12	0	20.67	20.76	20.45	20.57	20.53		
5	64QAM	12	7	20.68	20.24	20.53	20.75	20.81		
5	64QAM	12	13	20.66	20.23	20.32	20.63	20.52		
5	64QAM	25	0	20.40	20.23	20.38	20.72	20.34		

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	25.16	26.00	26.27	25.79	25.69	26.5		
20	QPSK	1	49	25.15	25.94	26.21	25.76	25.68			
20	QPSK	1	99	25.04	25.84	26.20	25.72	25.54			
20	QPSK	50	0	24.50	25.12	25.32	25.19	24.80			
20	QPSK	50	24	24.40	25.01	25.23	25.10	24.71	26		
20	QPSK	50	50	24.36	25.10	25.30	25.05	24.64			
20	QPSK	100	0	24.49	25.01	25.21	25.03	24.76			
20	16QAM	1	0	24.72	25.75	25.77	25.38	25.28			
20	16QAM	1	49	24.65	25.68	25.67	25.34	25.24	26		
20	16QAM	1	99	24.67	25.59	25.73	25.35	25.13			
20	16QAM	50	0	23.64	24.35	24.47	24.39	23.92			
20	16QAM	50	24	23.62	24.31	24.42	24.37	23.91			
20	16QAM	50	50	23.50	24.23	24.47	24.36	23.81	25		
20	16QAM	100	0	23.46	24.33	24.43	24.32	23.76			
20	64QAM	1	0	24.63	25.66	25.69	25.28	25.16			
20	64QAM	1	49	24.62	25.65	25.65	25.17	25.15			
20	64QAM	1	99	24.48	25.61	25.52	25.19	25.04	26		
20	64QAM	50	0	23.61	24.33	24.47	24.52	23.88			
20	64QAM	50	24	23.61	24.23	24.46	24.49	23.85			
20	64QAM	50	50	23.53	24.22	24.29	24.35	23.83			
20	64QAM	100	0	23.41	24.30	24.46	24.38	23.69	25		
Channel				39725	40173	40620	41068	41515			
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	25.18	26.04	26.23	26.10	25.65		26.5	
15	QPSK	1	37	25.12	25.97	26.20	26.21	25.57			
15	QPSK	1	74	25.00	25.95	26.11	26.13	25.61			
15	QPSK	36	0	24.52	25.23	25.35	25.26	24.77			
15	QPSK	36	20	24.41	25.23	25.26	25.16	24.76	26		
15	QPSK	36	39	24.48	25.12	25.24	25.12	24.59			
15	QPSK	75	0	24.35	25.06	25.06	25.22	24.56			
15	16QAM	1	0	24.72	25.59	25.75	25.70	25.18			
15	16QAM	1	37	24.61	25.54	25.64	25.65	25.13	26		
15	16QAM	1	74	24.59	25.45	25.50	25.72	25.11			
15	16QAM	36	0	23.65	24.39	24.50	24.17	23.87			
15	16QAM	36	20	23.64	24.30	24.43	24.13	23.76			
15	16QAM	36	39	23.53	24.29	24.44	24.13	23.77	25		
15	16QAM	75	0	23.64	24.34	24.36	24.06	23.80			
15	64QAM	1	0	24.65	25.48	25.64	25.56	25.10			
15	64QAM	1	37	24.60	25.43	25.62	25.55	25.03			
15	64QAM	1	74	24.59	25.39	25.55	25.39	25.01	26		
15	64QAM	36	0	23.64	24.28	24.48	24.41	23.86			
15	64QAM	36	20	23.55	24.21	24.43	24.32	23.79			
15	64QAM	36	39	23.46	24.15	24.30	24.38	23.75			
15	64QAM	75	0	23.64	24.10	24.33	24.33	23.70	25		
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	24.50	24.57	24.66	24.41	24.36		25	
10	QPSK	1	25	24.40	24.47	24.55	24.40	24.36			
10	QPSK	1	49	24.35	24.56	24.58	24.27	24.28			
10	QPSK	25	0	23.64	23.62	23.69	23.53	23.41			
10	QPSK	25	12	23.58	23.57	23.58	23.50	23.33	24		
10	QPSK	25	25	23.49	23.49	23.58	23.41	23.33			
10	QPSK	50	0	23.49	23.44	23.54	23.45	23.24			
10	16QAM	1	0	24.03	24.04	24.19	23.95	23.89			
10	16QAM	1	25	23.92	23.94	24.17	23.93	23.88	24.5		
10	16QAM	1	49	23.89	24.03	24.15	23.91	23.73			
10	16QAM	25	0	22.58	22.66	22.78	22.52	22.40			
10	16QAM	25	12	22.49	22.62	22.67	22.47	22.33			
10	16QAM	25	25	22.56	22.49	22.69	22.47	22.40	23.5		
10	16QAM	50	0	22.56	22.63	22.74	22.36	22.23			
10	64QAM	1	0	24.23	24.30	24.38	24.06	23.81			
10	64QAM	1	25	24.23	24.27	24.34	24.06	23.74			
10	64QAM	1	49	24.08	24.25	24.22	23.92	23.80	25.5		
10	64QAM	25	0	22.58	22.66	22.78	22.52	22.41			
10	64QAM	25	12	22.52	22.64	22.73	22.46	22.40			
10	64QAM	25	25	22.45	22.55	22.60	22.51	22.29			
10	64QAM	50	0	22.41	22.47	22.77	22.47	22.22	23.5		
Channel				39675	40148	40620	41093	41565			
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5			
5	QPSK	1	0	24.61	24.61	24.63	24.56	24.46		25	
5	QPSK	1	12	24.65	24.55	24.58	24.48	24.38			
5	QPSK	1	24	24.67	24.56	24.60	24.39	24.28			
5	QPSK	12	0	23.58	23.55	23.62	23.52	23.35			
5	QPSK	12	7	23.48	23.55	23.56	23.44	23.24	24		
5	QPSK	12	13	23.48	23.53	23.51	23.51	23.32			
5	QPSK	25	0	23.46	23.35	23.58	23.35	23.31			
5	16QAM	1	0	24.11	24.12	24.19	24.09	24.07			
5	16QAM	1	12	24.05	24.11	24.16	24.04	23.97	24.5		
5	16QAM	1	24	24.00	24.05	24.06	24.03	23.94			
5	16QAM	12	0	22.60	22.60	22.63	22.52	22.36			
5	16QAM	12	7	22.55	22.52	22.56	22.43	22.32			
5	16QAM	12	13	22.42	22.51	22.53	22.39	22.18	23		
5	16QAM	25	0	22.40	22.48	22.57	22.44	22.20			
5	64QAM	1	0	24.37	24.45	24.55	24.19	24.12			
5	64QAM	1	12	24.36	24.37	24.41	24.11	24.03			
5	64QAM	1	24	24.25	24.29	24.39	24.15	24.06	25		
5	64QAM	12	0	22.50	22.50	22.56	22.38	22.25			
5	64QAM	12	7	22.40	22.49	22.48	22.51	22.34			
5	64QAM	12	13	22.48	22.35	22.49	22.31	22.08			
5	64QAM	25	0	22.30	22.30	22.44	22.35	22.24	23		

2.4GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	CH 1	2412	11.89	12.5	19	99.67
		CH 6	2437	10.13	10.5	19	
		CH 11	2462	10.81	11.0	19	
	802.11g 6Mbps	CH 1	2412	17.09	17.5	22	99.90
		CH 6	2437	20.04	20.5	22	
		CH 11	2462	19.15	19.5	22	
	802.11n-HT20 MCS0	CH 1	2412	17.73	18.0	21	97.93
		CH 6	2437	19.11	19.5	21	
		CH 11	2462	18.10	18.5	21	
	802.11n-HT40 MCS0	CH 3	2422	14.82	15.0	21	94.69
		CH 6	2437	19.85	20.0	21	
		CH 9	2452	17.97	18.5	21	

5.2GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	CH 36	5180	13.36	14.0	20	98.06
		CH 44	5220	18.63	18.7	24	
		CH 48	5240	16.40	17.0	24	
	802.11n-HT20 MCS0	CH 36	5180	16.54	17.0	23	97.93
		CH 44	5220	16.46	17.0	23	
		CH 48	5240	16.58	17.0	23	
	802.11n-HT40 MCS0	CH 38	5190	10.77	11.5	17	96.27
		CH 46	5230	17.12	18.0	23	
	802.11ac-VHT20 MCS0	CH 36	5180	16.50	17.0	23	98.35
		CH 44	5220	16.48	17.0	23	
		CH 48	5240	16.60	17.0	23	
	802.11ac-VHT40 MCS0	CH 38	5190	17.04	18.0	23	96.30
		CH 46	5230	17.10	18.0	23	
	802.11ac-VHT80 MCS0	CH 42	5210	6.11	7.0	15	96.30

5.3GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	CH 52	5260	19.65	20.0	24	98.06
		CH 60	5300	17.99	18.5	24	
		CH 64	5320	13.58	14.0	20	
	802.11n-HT20 MCS0	CH 52	5260	16.69	17.0	23	97.93
		CH 60	5300	16.65	17.0	23	
		CH 64	5320	16.73	17.0	23	
	802.11n-HT40 MCS0	CH 54	5270	17.19	18.0	23	96.27
		CH 62	5310	14.02	14.5	20	
	802.11ac-VHT20 MCS0	CH 52	5260	16.71	17.0	23	98.35
		CH 60	5300	16.65	17.0	23	
		CH 64	5320	16.76	17.0	23	
	802.11ac-VHT40 MCS0	CH 54	5270	17.23	18.0	23	96.30
		CH 62	5310	17.37	18.0	23	
	802.11ac-VHT80 MCS0	CH 58	5290	13.49	14.0	20	96.30

5.5GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	CH 100	5500	17.88	18.5	24	98.06
		CH 116	5580	17.20	18.0	24	
		CH 120	5600	17.07	18.0	24	
		CH 144	5720	16.59	17.0	24	
	802.11n-HT20 MCS0	CH 100	5500	16.84	17.0	23	97.93
		CH 116	5580	17.84	18.5	23	
		CH 120	5600	16.14	17.0	23	
		CH 144	5720	15.66	17.0	23	
	802.11n-HT40 MCS0	CH 102	5510	11.04	12.0	17	96.27
		CH 110	5550	17.03	17.5	23	
		CH 126	5630	16.90	17.5	23	
		CH 134	5670	13.17	14.0	20	
		CH 142	5710	16.28	17.0	23	
	802.11ac-VHT20 MCS0	CH 100	5500	16.88	17.0	23	98.35
		CH 116	5580	16.09	17.0	23	
		CH 120	5600	16.12	17.0	23	
		CH 144	5720	15.65	16.0	23	
	802.11ac-VHT40 MCS0	CH 102	5510	17.37	18.0	23	96.30
		CH 110	5550	17.18	18.0	23	
		CH 126	5630	17.00	18.0	23	
		CH 142	5710	16.18	17.0	23	
	802.11ac-VHT80 MCS0	CH 106	5530	10.79	11.5	17	96.30
		CH 138	5690	16.49	17.0	24	

5.8GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	CH 149	5745	16.42	16.7	24	98.06
		CH 157	5785	16.21	16.7	24	
		CH 165	5825	16.35	16.7	24	
	802.11n-HT20 MCS0	CH 149	5745	15.52	16.0	23	97.93
		CH 157	5785	15.31	16.0	23	
		CH 165	5825	15.49	16.0	23	
	802.11n-HT40 MCS0	CH 151	5755	15.93	16.0	23	96.27
		CH 159	5795	15.86	16.0	23	
	802.11ac-VHT20 MCS0	CH 149	5745	15.52	16.0	23	98.35
		CH 157	5785	15.26	16.0	23	
		CH 165	5825	15.46	16.0	23	
	802.11ac-VHT40 MCS0	CH 151	5755	15.97	16.0	23	96.30
		CH 159	5795	15.83	16.0	23	
	802.11ac-VHT80 MCS0	CH 155	5775	16.04	16.5	24	96.30

Bluetooth

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	4.96	5.11	5.11
	CH 39	2441	5.57	5.01	5.43
	CH 78	2480	5.38	5.48	5.50
Tune-up Limit			6.0	6.0	6.0
Duty Cycle %			77.07	76.8	77.07

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	5.57
	CH 19	2440	4.66
	CH 39	2480	5.62
Tune-up Limit			6.0
Duty Cycle %			62.5

LTE CA Downlink for 2CC													
Configure		CA Configuration	PCC					SCC				Power	
			Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band	Non Continuous	CA_2A-2A	2	20	18700	1860	QPSK/1#0	2	5	1175	1987.5	22.24	22.29
		CA_4A-4A	4	20	20050	1720	QPSK/1#0	4	5	2300	2145	22.02	22.37
		CA_5A-5A	5	10	20450	829	QPSK/1#0	5	5	2600	889	22.23	22.29
		CA_25A-25A	25	20	26140	1860	QPSK/1#0	5	5	8665	1992.5	22.35	22.39
		CA_41A-41A	41	20	39750	2506	QPSK/1#0	41	20	40712	2602.2	21.62	21.68
		CA_66A-66A	66	20	132072	1720	QPSK/1#0	66	20	67061	2197.5	22.34	22.42
	Continuous	CA_2C	2	20	18801	1870.1	QPSK/1#0	2	20	999	1969.9	22.21	22.29
		CA_5B	5	10	20476	831.6	QPSK/1#0	5	10	2575	886.5	22.26	22.29
		CA_41C	41	20	40521	2583.1	QPSK/1#0	41	20	40719	2602.9	20.99	21.68
		CA_66B	66	10	132622	1775	QPSK/1#0	66	10	67185	2184.9	21.82	22.42
Inter-band	CA_66C	66	20	132323	1745.1	QPSK/1#0	66	20	66985	2164.9	22.04	22.42	
	CA_2A-4A	2	20	18900	1880	QPSK/1#0	4	20	2175	2132.5	22.21	22.29	
	CA_2A-5A	2	20	18900	1880	QPSK/1#0	5	10	2525	881.5	22.19	22.29	
	CA_2A-12A	2	20	18900	1880	QPSK/1#0	12	10	5095	737.5	22.27	22.29	
	CA_2A-13A	2	20	18900	1880	QPSK/1#0	13	10	5230	751	22.27	22.29	
	CA_2A-14A	2	20	18900	1880	QPSK/1#0	14	10	5330	763	22.25	22.29	
	CA_2A-66A	2	20	18900	1880	QPSK/1#0	66	20	66886	2155	22.24	22.29	
	CA_2A-71A	2	20	18900	1880	QPSK/1#0	71	20	68786	637	22.26	22.29	
	CA_4A-5A	4	20	20175	1732.5	QPSK/1#0	5	10	2525	881.5	21.69	22.29	
	CA_4A-12A	4	20	20175	1732.5	QPSK/1#0	12	10	5095	737.5	21.52	22.37	
	CA_4A-13A	4	20	20175	1732.5	QPSK/1#0	13	10	5230	751	21.69	22.37	
	CA_4A-71A	4	20	20175	1732.5	QPSK/1#0	71	20	68786	637	21.95	22.37	
	CA_5A-41A	5	10	20525	836.5	QPSK/1#0	41	20	40620	2593	21.60	22.29	
	CA_5A-66A	5	10	20525	836.5	QPSK/1#0	66	20	66886	2155	21.24	22.29	
	CA_12A-66A	12	10	23095	707.5	QPSK/1#0	66	20	66886	2155	21.53	22.68	
	CA_13A-66A	13	10	23230	782	QPSK/1#0	66	20	66886	2155	21.39	22.25	
	CA_14A-66A	14	10	23330	793	QPSK/1#0	66	20	66886	2155	21.24	22.45	
	CA_25A-26A	25	20	26365	1882.5	QPSK/1#0	26	15	8865	876.5	22.26	22.39	
	CA_26A-41A	26	15	26865	831.5	QPSK/1#0	41	20	40712	2602.2	22.11	22.24	
	CA_66A-71A	66	20	132322	1745	QPSK/1#0	71	20	68786	637	22.20	22.42	