



REPORT No.: SZ23020308S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacture document.



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		33.15	33.17	33.09	34.00	24.15	24.17	24.09	25.00	0.09
GPRS 1 Tx slot		33.12	33.15	33.08	34.00	24.12	24.15	24.08	25.00	
GPRS 2 Tx slots		31.01	31.04	30.99	32.00	25.01	25.04	24.99	26.00	0.05
GPRS 3 Tx slots		29.05	29.08	29.03	30.00	24.79	24.82	24.77	25.74	0.05
GPRS 4 Tx slots		26.79	26.83	26.72	27.50	23.79	23.83	23.72	24.50	0.11
EDGE 1 Tx slot		26.31	26.34	26.19	27.00	17.31	17.34	17.19	18.00	0.15
EDGE 2 Tx slots		25.16	25.18	25.10	26.00	19.16	19.18	19.10	20.00	0.08
EDGE 3 Tx slots		22.82	22.86	22.66	23.50	18.56	18.60	18.40	19.24	0.20
EDGE 4 Tx slots		20.14	20.19	20.08	21.00	17.14	17.19	17.08	18.00	0.11
Mode			Max.	33.17			Max.	25.04		
Attenuator		Cable Loss : 0.6								

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		30.00	30.03	29.96	31.00	21.00	21.03	20.96	22.00	0.14
GPRS 1 Tx slot		29.95	30.02	29.89	31.00	20.95	21.02	20.89	22.00	
GPRS 2 Tx slots		27.69	27.75	27.64	28.50	21.69	21.75	21.64	22.50	0.11
GPRS 3 Tx slots		26.11	26.14	26.06	27.00	21.85	21.88	21.80	22.74	0.08
GPRS 4 Tx slots		23.83	23.92	23.80	24.50	20.83	20.92	20.80	21.50	0.12
EDGE 1 Tx slot		26.17	26.25	26.11	27.00	17.17	17.25	17.11	18.00	0.14
EDGE 2 Tx slots		24.29	24.36	24.25	25.00	18.29	18.36	18.25	19.00	0.11
EDGE 3 Tx slots		21.38	21.41	21.33	22.00	17.12	17.15	17.07	17.74	0.08
EDGE 4 Tx slots		18.09	18.12	18.04	19.00	15.09	15.12	15.04	16.00	0.08
Mode			Max.	30.03			Max.	21.88		
Attenuator		Cable Loss : 0.8								

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	22.80	22.82	22.77	23.50	22.73	22.85	22.84	23.50	22.73	22.76	22.74	23.50
3GPP Rel 6	HSDPA Subtest-1	21.99	22.22	22.26	23.00	20.64	20.46	20.78	21.50	21.44	21.46	21.13	22.00
3GPP Rel 6	HSDPA Subtest-2	21.53	21.83	21.86	23.00	21.15	21.02	21.27	22.00	21.19	21.16	20.86	22.00
3GPP Rel 6	HSDPA Subtest-3	21.64	21.97	22.00	22.50	21.08	20.99	21.23	22.00	20.83	20.84	20.57	21.50
3GPP Rel 6	HSDPA Subtest-4	21.32	21.63	21.67	22.50	21.05	21.00	21.24	22.00	20.71	20.73	20.47	21.50
3GPP Rel 6	HSUPA Subtest-1	19.41	19.75	19.93	20.50	19.21	19.24	19.55	20.50	19.64	19.96	19.56	20.50
3GPP Rel 6	HSUPA Subtest-2	19.21	19.54	19.69	20.50	18.47	18.31	18.54	19.50	19.35	19.58	19.42	20.50
3GPP Rel 6	HSUPA Subtest-3	19.66	20.00	20.17	21.00	19.25	19.25	19.51	20.50	19.70	20.03	19.65	21.00
3GPP Rel 6	HSUPA Subtest-4	19.69	20.07	20.22	21.00	18.80	18.80	19.06	20.00	19.37	19.57	19.41	20.50
3GPP Rel 6	HSUPA Subtest-5	21.74	22.03	22.11	23.00	21.02	20.89	21.18	22.00	21.22	21.33	20.93	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.12	21.59	21.50	22.50	21.54	21.85	21.60	22.50	22.18	22.06	21.91	23.00
Attenuator		Cable Loss			0.8	Cable Loss			0.8	Cable Loss			0.6
Mode			Max.	22.82			Max.	22.85			Max.	22.76	



Band 2 (1900MHz Band) (dBm)							
Part 24E							
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	22.73	22.78	22.69	
20	QPSK	1	49	22.61	22.71	22.58	23.5
20	QPSK	1	99	22.64	22.73	22.70	
20	QPSK	50	0	21.51	21.58	21.53	
20	QPSK	50	24	21.55	21.56	21.49	22.5
20	QPSK	50	50	21.48	21.52	21.53	
20	QPSK	100	0	21.51	21.53	21.50	
20	16QAM	1	0	21.58	21.61	21.53	22.5
20	16QAM	1	49	21.55	21.53	21.56	
20	16QAM	1	99	21.21	21.56	21.52	
20	16QAM	50	0	20.66	20.69	20.63	21.5
20	16QAM	50	24	20.64	20.63	20.59	
20	16QAM	50	50	20.67	20.54	20.52	
20	16QAM	100	0	20.59	20.58	20.55	Tune-up limit (dBm)
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.73	22.75	22.67	23.5
15	QPSK	1	37	22.63	22.70	22.44	
15	QPSK	1	74	22.60	22.64	22.58	
15	QPSK	36	0	21.40	21.69	21.47	22.5
15	QPSK	36	20	21.68	21.37	21.44	
15	QPSK	36	39	21.38	21.45	21.53	
15	QPSK	75	0	21.43	21.49	21.44	22.5
15	16QAM	1	0	21.51	21.61	21.52	
15	16QAM	1	37	21.56	21.49	21.60	
15	16QAM	1	74	21.58	21.64	21.63	21.5
15	16QAM	36	0	20.55	20.83	20.77	
15	16QAM	36	20	20.49	20.69	20.72	
15	16QAM	36	39	20.68	20.69	20.52	Tune-up limit (dBm)
15	16QAM	75	0	20.41	20.68	20.54	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	23.5
10	QPSK	1	0	22.72	22.76	22.55	
10	QPSK	1	25	22.61	22.72	22.51	
10	QPSK	1	49	22.61	22.54	22.60	22.5
10	QPSK	25	0	21.64	21.63	21.41	
10	QPSK	25	12	21.54	21.71	21.58	
10	QPSK	25	25	21.60	21.50	21.59	22.5
10	QPSK	50	0	21.58	21.47	21.43	
10	16QAM	1	0	21.54	21.65	21.66	
10	16QAM	1	25	21.59	21.52	21.57	22.5
10	16QAM	1	49	21.53	21.69	21.41	
10	16QAM	25	0	20.58	20.60	20.71	
10	16QAM	25	12	20.65	20.56	20.49	21.5
10	16QAM	25	25	20.77	20.40	20.58	
10	16QAM	50	0	20.56	20.71	20.51	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.58	22.72	22.61	
5	QPSK	1	12	22.74	22.61	22.48	23.5
5	QPSK	1	24	22.46	22.56	22.64	
5	QPSK	12	0	21.61	21.64	21.55	
5	QPSK	12	7	21.67	21.69	21.63	22.5
5	QPSK	12	13	21.59	21.65	21.45	
5	QPSK	25	0	21.42	21.34	21.55	
5	16QAM	1	0	21.72	21.56	21.64	22.5
5	16QAM	1	12	21.52	21.49	21.55	
5	16QAM	1	24	21.57	21.67	21.45	
5	16QAM	12	0	20.60	20.54	20.53	21.5
5	16QAM	12	7	20.49	20.48	20.59	
5	16QAM	12	13	20.70	20.48	20.66	
5	16QAM	25	0	20.43	20.53	20.46	Tune-up limit (dBm)
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.56	22.76	22.72	23.5
3	QPSK	1	8	22.57	22.59	22.59	
3	QPSK	1	14	22.67	22.71	22.72	
3	QPSK	8	0	21.40	21.48	21.46	22.5
3	QPSK	8	4	21.49	21.56	21.59	
3	QPSK	8	7	21.58	21.41	21.42	
3	QPSK	15	0	21.44	21.55	21.53	22.5
3	16QAM	1	0	21.69	21.68	21.59	
3	16QAM	1	8	21.56	21.55	21.65	
3	16QAM	1	14	21.60	21.41	21.51	21.5
3	16QAM	8	0	20.59	20.76	20.59	
3	16QAM	8	4	20.54	20.55	20.56	
3	16QAM	8	7	20.60	20.45	20.51	Tune-up limit (dBm)
3	16QAM	15	0	20.60	20.64	20.45	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	23.5
1.4	QPSK	1	0	22.74	22.75	22.62	
1.4	QPSK	1	3	22.69	22.53	22.53	
1.4	QPSK	1	5	22.68	22.60	22.70	22.5
1.4	QPSK	3	0	21.66	21.64	21.59	
1.4	QPSK	3	1	21.60	21.57	21.51	
1.4	QPSK	3	3	21.56	21.61	21.54	22.5
1.4	QPSK	6	0	21.31	21.53	21.44	
1.4	16QAM	1	0	21.51	21.61	21.59	
1.4	16QAM	1	3	21.36	21.41	21.54	22.5
1.4	16QAM	1	5	21.33	21.47	21.55	
1.4	16QAM	3	0	20.73	20.55	20.70	
1.4	16QAM	3	1	20.60	20.78	20.50	21.5
1.4	16QAM	3	3	20.71	20.68	20.50	
1.4	16QAM	6	0	20.60	20.43	20.58	

Band 4 (AWS Band) (dBm)							
Part 27L (only on channel required)							
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	22.66	22.68	22.59	
20	QPSK	1	49	22.51	22.65	22.39	23.5
20	QPSK	1	99	22.61	22.55	22.59	
20	QPSK	50	0	21.53	21.73	21.46	
20	QPSK	50	24	21.64	21.68	21.46	22.5
20	QPSK	50	50	21.58	21.49	21.54	
20	QPSK	100	0	21.48	21.68	21.64	
20	16QAM	1	0	21.73	21.74	21.52	22.5
20	16QAM	1	49	21.64	21.47	21.55	
20	16QAM	1	99	21.49	21.44	21.55	
20	16QAM	50	0	20.56	20.72	20.46	21.5
20	16QAM	50	24	20.50	20.77	20.67	
20	16QAM	50	50	20.53	20.54	20.44	
20	16QAM	100	0	20.68	20.67	20.68	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	22.65	22.65	22.53	23.5
15	QPSK	1	37	22.58	22.64	22.48	
15	QPSK	1	74	22.59	22.57	22.56	
15	QPSK	36	0	21.61	21.59	21.53	22.5
15	QPSK	36	20	21.36	21.64	21.64	
15	QPSK	36	39	21.61	21.47	21.55	
15	QPSK	75	0	21.34	21.33	21.46	22.5
15	16QAM	1	0	21.59	21.55	21.59	
15	16QAM	1	37	21.58	21.43	21.39	
15	16QAM	1	74	21.32	21.69	21.36	21.5
15	16QAM	36	0	20.63	20.80	20.52	
15	16QAM	36	20	20.72	20.60	20.71	
15	16QAM	36	39	20.79	20.54	20.50	
15	16QAM	75	0	20.49	20.52	20.60	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	23.5
10	QPSK	1	0	22.60	22.66	22.61	
10	QPSK	1	25	22.65	22.64	22.66	
10	QPSK	1	49	22.57	22.62	22.58	22.5
10	QPSK	25	0	21.32	21.57	21.33	
10	QPSK	25	12	21.45	21.53	21.29	
10	QPSK	25	25	21.50	21.37	21.60	22.5
10	QPSK	50	0	21.37	21.39	21.50	
10	16QAM	1	0	21.59	21.41	21.35	
10	16QAM	1	25	21.36	21.49	21.41	22.5
10	16QAM	1	49	21.33	21.36	21.42	
10	16QAM	25	0	20.49	20.69	20.57	
10	16QAM	25	12	20.55	20.69	20.56	21.5
10	16QAM	25	25	20.53	20.53	20.45	
10	16QAM	50	0	20.53	20.68	20.68	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	23.5
5	QPSK	1	0	22.55	22.64	22.53	
5	QPSK	1	12	22.55	22.56	22.52	
5	QPSK	1	24	22.59	22.62	22.58	22.5
5	QPSK	12	0	21.36	21.54	21.41	
5	QPSK	12	7	21.68	21.40	21.60	
5	QPSK	12	13	21.62	21.50	21.65	22.5
5	QPSK	25	0	21.62	21.64	21.50	
5	16QAM	1	0	21.51	21.57	21.36	
5	16QAM	1	12	21.40	21.42	21.59	22.5
5	16QAM	1	24	21.34	21.41	21.42	
5	16QAM	12	0	20.75	20.61	20.69	
5	16QAM	12	7	20.78	20.75	20.46	21.5
5	16QAM	12	13	20.57	20.50	20.55	
5	16QAM	25	0	20.66	20.58	20.64	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	23.5
3	QPSK	1	0	22.54	22.63	22.60	
3	QPSK	1	8	22.62	22.54	22.43	
3	QPSK	1	14	22.58	22.55	22.57	22.5
3	QPSK	8	0	21.40	21.72	21.65	
3	QPSK	8	4	21.70	21.44	21.59	
3	QPSK	8	7	21.41	21.33	21.54	22.5
3	QPSK	15	0	21.41	21.42	21.40	
3	16QAM	1	0	21.44	21.68	21.34	
3	16QAM	1	8	21.61	21.56	21.71	22.5
3	16QAM	1	14	21.52	21.61	21.49	
3	16QAM	8	0	20.55	20.54	20.69	
3	16QAM	8	4	20.46	20.72	20.40	21.5
3	16QAM	8	7	20.51	20.51	20.43	
3	16QAM	15	0	20.48	20.71	20.66	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	23.5
1.4	QPSK	1	0	22.57	22.61	22.56	
1.4	QPSK	1	3	22.53	22.54	22.51	
1.4	QPSK	1	5	22.56	22.55	22.56	
1.4	QPSK	3	0	21.56	21.58	21.56	
1.4	QPSK	3	1	21.55	21.65	21.60	22.5
1.4	QPSK	3	3	21.56	21.62	21.53	
1.4	QPSK	6	0	21.53	21.68	21.35	
1.4	16QAM	1	0	21.54	21.58	21.46	
1.4	16QAM	1	3	21.66	21.65	21.67	
1.4	16QAM	1	5	21.28	21.38	21.48	22.5
1.4	16QAM	3	0	20.56	20.52	20.58	
1.4	16QAM	3	1	20.65	20.53	20.59	
1.4	16QAM	3	3	20.78	20.63	20.63	
1.4	16QAM	6	0	20.53	20.71	20.48	



Band 5 (Cellular Band) (dBm) Part 22H(only on channel required)							
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	22.79	22.83	22.64	23.5
10	QPSK	1	25	22.64	22.69	22.65	
10	QPSK	1	49	22.57	22.71	22.58	
10	QPSK	25	0	21.71	21.84	21.72	22.5
10	QPSK	25	12	21.64	21.80	21.70	
10	QPSK	25	25	21.61	21.77	21.60	
10	QPSK	50	0	21.57	21.73	21.61	22.5
10	16QAM	1	0	21.80	21.66	21.78	
10	16QAM	1	25	21.74	21.64	21.64	
10	16QAM	1	49	21.59	21.55	21.52	21.5
10	16QAM	25	0	20.85	20.83	20.92	
10	16QAM	25	12	20.72	20.60	20.81	
10	16QAM	25	25	20.75	20.65	20.64	21.5
10	16QAM	50	0	20.85	20.82	20.77	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.79	22.80	22.78	23.5
5	QPSK	1	12	22.81	22.66	22.57	
5	QPSK	1	24	22.61	22.68	22.70	
5	QPSK	12	0	21.53	21.69	21.59	22.5
5	QPSK	12	7	21.76	21.86	21.78	
5	QPSK	12	13	21.73	21.71	21.48	
5	QPSK	25	0	21.65	21.74	21.71	22.5
5	16QAM	1	0	21.61	21.62	21.82	
5	16QAM	1	12	21.81	21.57	21.63	
5	16QAM	1	24	21.57	21.84	21.57	21.5
5	16QAM	12	0	20.79	20.86	20.70	
5	16QAM	12	7	20.73	20.74	20.63	
5	16QAM	12	13	20.76	20.73	20.74	21.5
5	16QAM	25	0	20.77	20.70	20.58	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.76	22.81	22.77	23.5
3	QPSK	1	8	22.80	22.60	22.81	
3	QPSK	1	14	22.74	22.78	22.67	
3	QPSK	8	0	21.65	21.88	21.76	22.5
3	QPSK	8	4	21.74	21.68	21.68	
3	QPSK	8	7	21.60	21.50	21.83	
3	QPSK	15	0	21.71	21.67	21.49	22.5
3	16QAM	1	0	21.69	21.60	21.54	
3	16QAM	1	8	21.71	21.83	21.82	
3	16QAM	1	14	21.47	21.59	21.80	21.5
3	16QAM	8	0	20.96	20.81	20.73	
3	16QAM	8	4	20.91	20.92	20.59	
3	16QAM	8	7	20.94	20.56	20.68	21.5
3	16QAM	15	0	20.65	20.69	20.61	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.73	22.76	22.68	23.5
1.4	QPSK	1	3	22.72	22.75	22.74	
1.4	QPSK	1	5	22.66	22.62	22.57	
1.4	QPSK	3	0	21.59	21.84	21.81	22.5
1.4	QPSK	3	1	21.75	21.69	21.70	
1.4	QPSK	3	3	21.70	21.81	21.59	
1.4	QPSK	6	0	21.70	21.52	21.50	22.5
1.4	16QAM	1	0	21.55	21.85	21.61	
1.4	16QAM	1	3	21.59	21.53	21.55	
1.4	16QAM	1	5	21.48	21.69	21.49	22.5
1.4	16QAM	3	0	20.91	20.91	20.61	
1.4	16QAM	3	1	20.88	20.80	20.84	
1.4	16QAM	3	3	20.92	20.78	20.54	21.5
1.4	16QAM	6	0	20.85	20.59	20.53	

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
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	22.75	22.80	22.68	23.5
10	QPSK	1	25	22.68	22.71	22.53	
10	QPSK	1	49	22.72	22.75	22.75	
10	QPSK	25	0	21.74	21.55	21.51	22.5
10	QPSK	25	12	21.74	21.59	21.70	
10	QPSK	25	25	21.61	21.64	21.68	
10	QPSK	50	0	21.66	21.48	21.79	22.5
10	16QAM	1	0	21.68	21.63	21.77	
10	16QAM	1	25	21.61	21.57	21.61	
10	16QAM	1	49	21.54	21.64	21.50	21.5
10	16QAM	25	0	20.81	20.83	20.81	
10	16QAM	25	12	20.73	20.84	20.86	
10	16QAM	25	25	20.63	20.80	20.48	21.5
10	16QAM	50	0	20.88	20.56	20.70	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.57	22.77	22.70	23.5
5	QPSK	1	12	22.71	22.67	22.73	
5	QPSK	1	24	22.66	22.61	22.64	
5	QPSK	12	0	21.66	21.85	21.74	22.5
5	QPSK	12	7	21.68	21.52	21.61	
5	QPSK	12	13	21.73	21.77	21.59	
5	QPSK	25	0	21.81	21.82	21.52	22.5
5	16QAM	1	0	21.87	21.81	21.81	
5	16QAM	1	12	21.60	21.77	21.77	
5	16QAM	1	24	21.56	21.70	21.77	21.5
5	16QAM	12	0	20.66	20.97	20.62	
5	16QAM	12	7	20.87	20.65	20.72	
5	16QAM	12	13	20.91	20.70	20.64	21.5
5	16QAM	25	0	20.56	20.72	20.58	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.63	22.79	22.65	23.5
3	QPSK	1	8	22.68	22.64	22.75	
3	QPSK	1	14	22.74	22.65	22.79	
3	QPSK	8	0	21.52	21.65	21.57	22.5
3	QPSK	8	4	21.77	21.78	21.66	
3	QPSK	8	7	21.66	21.82	21.71	
3	QPSK	15	0	21.70	21.77	21.45	22.5
3	16QAM	1	0	21.80	21.80	21.68	
3	16QAM	1	8	21.78	21.68	21.75	
3	16QAM	1	14	21.61	21.69	21.63	21.5
3	16QAM	8	0	20.92	20.94	20.90	
3	16QAM	8	4	20.60	20.79	20.67	
3	16QAM	8	7	20.73	20.82	20.47	21.5
3	16QAM	15	0	20.56	20.58	20.63	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.74	22.76	22.74	23.5
1.4	QPSK	1	3	22.58	22.72	22.64	
1.4	QPSK	1	5	22.66	22.62	22.61	
1.4	QPSK	3	0	21.52	21.77	21.69	22.5
1.4	QPSK	3	1	21.56	21.69	21.66	
1.4	QPSK	3	3	21.59	21.60	21.57	
1.4	QPSK	6	0	21.58	21.52	21.64	22.5
1.4	16QAM	1	0	21.56	21.63	21.63	
1.4	16QAM	1	3	21.76	21.79	21.78	
1.4	16QAM	1	5	21.59	21.77	21.64	22.5
1.4	16QAM	3	0	20.62	20.72	20.71	
1.4	16QAM	3	1	20.60	20.68	20.87	
1.4	16QAM	3	3	20.85	20.65	20.59	21.5
1.4	16QAM	6	0	20.62	20.85	20.67	



Band 17 (700MHz Band) (dBm)							
Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.73	22.76	22.58	
10	QPSK	1	25	22.64	22.60	22.65	23.5
10	QPSK	1	49	22.64	22.59	22.74	
10	QPSK	25	0	21.70	21.79	21.54	
10	QPSK	25	12	21.77	21.72	21.44	22.5
10	QPSK	25	25	21.67	21.59	21.65	
10	QPSK	50	0	21.54	21.64	21.56	
10	16QAM	1	0	21.70	21.77	21.74	22.5
10	16QAM	1	25	21.59	21.80	21.73	
10	16QAM	1	49	21.53	21.51	21.53	
10	16QAM	25	0	20.96	20.68	20.82	21.5
10	16QAM	25	12	20.77	20.60	20.71	
10	16QAM	25	25	20.75	20.53	20.54	
10	16QAM	50	0	20.77	20.87	20.77	
Channel				23795	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.62	22.70	22.66	23.5
5	QPSK	1	12	22.68	22.67	22.67	
5	QPSK	1	24	22.62	22.58	22.70	
5	QPSK	12	0	21.70	21.54	21.63	22.5
5	QPSK	12	7	21.75	21.57	21.45	
5	QPSK	12	13	21.62	21.57	21.54	
5	QPSK	25	0	21.67	21.54	21.54	22.5
5	16QAM	1	0	21.78	21.80	21.71	
5	16QAM	1	12	21.65	21.49	21.66	
5	16QAM	1	24	21.65	21.67	21.74	21.5
5	16QAM	12	0	20.76	20.71	20.63	
5	16QAM	12	7	20.87	20.62	20.64	
5	16QAM	12	13	20.73	20.84	20.52	21.5
5	16QAM	25	0	20.76	20.78	20.69	

Band 66 (dBm)							
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	22.70	22.79	22.61	
20	QPSK	1	49	22.49	22.73	22.71	23.5
20	QPSK	1	99	22.64	22.60	22.60	
20	QPSK	50	0	21.59	21.84	21.53	
20	QPSK	50	24	21.60	21.62	21.60	22.5
20	QPSK	50	50	21.53	21.51	21.39	
20	QPSK	100	0	21.54	21.65	21.55	
20	16QAM	1	0	21.68	21.63	21.63	22.5
20	16QAM	1	49	21.39	21.51	21.64	
20	16QAM	1	99	21.29	21.43	21.66	
20	16QAM	50	0	20.80	20.80	20.74	21.5
20	16QAM	50	24	20.58	20.61	20.49	
20	16QAM	50	50	20.54	20.55	20.57	
20	16QAM	100	0	20.68	20.56	20.59	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.56	22.75	22.56	23.5
15	QPSK	1	37	22.53	22.74	22.66	
15	QPSK	1	74	22.62	22.57	22.63	
15	QPSK	36	0	21.35	21.74	21.57	22.5
15	QPSK	36	20	21.45	21.49	21.51	
15	QPSK	36	39	21.35	21.67	21.50	
15	QPSK	75	0	21.49	21.49	21.35	22.5
15	16QAM	1	0	21.70	21.45	21.51	
15	16QAM	1	37	21.45	21.59	21.48	
15	16QAM	1	74	21.34	21.71	21.47	21.5
15	16QAM	36	0	20.77	20.77	20.59	
15	16QAM	36	20	20.74	20.73	20.41	
15	16QAM	36	39	20.59	20.61	20.37	21.5
15	16QAM	75	0	20.56	20.43	20.55	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.60	22.76	22.59	
10	QPSK	1	25	22.59	22.76	22.49	23.5
10	QPSK	1	49	22.49	22.67	22.68	
10	QPSK	25	0	21.43	21.50	21.52	
10	QPSK	25	12	21.35	21.65	21.59	22.5
10	QPSK	25	25	21.57	21.51	21.53	
10	QPSK	50	0	21.50	21.50	21.57	
10	16QAM	1	0	21.56	21.66	21.60	22.5
10	16QAM	1	25	21.57	21.43	21.66	
10	16QAM	1	49	21.53	21.56	21.37	
10	16QAM	25	0	20.47	20.59	20.49	21.5
10	16QAM	25	12	20.57	20.44	20.51	
10	16QAM	25	25	20.76	20.69	20.59	
10	16QAM	50	0	20.54	20.57	20.49	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.69	22.73	22.68	23.5
5	QPSK	1	12	22.55	22.62	22.72	
5	QPSK	1	24	22.65	22.72	22.53	
5	QPSK	12	0	21.54	21.43	21.55	22.5
5	QPSK	12	7	21.44	21.66	21.49	
5	QPSK	12	13	21.51	21.55	21.39	
5	QPSK	25	0	21.60	21.34	21.52	22.5
5	16QAM	1	0	21.66	21.70	21.46	
5	16QAM	1	12	21.70	21.54	21.43	
5	16QAM	1	24	21.61	21.55	21.44	21.5
5	16QAM	12	0	20.56	20.73	20.52	
5	16QAM	12	7	20.75	20.48	20.63	
5	16QAM	12	13	20.75	20.66	20.44	21.5
5	16QAM	25	0	20.64	20.63	20.39	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.56	22.74	22.54	
3	QPSK	1	8	22.48	22.60	22.65	23.5
3	QPSK	1	14	22.69	22.66	22.63	
3	QPSK	8	0	21.48	21.54	21.55	
3	QPSK	8	4	21.45	21.38	21.30	22.5
3	QPSK	8	7	21.52	21.38	21.49	
3	QPSK	15	0	21.42	21.66	21.46	
3	16QAM	1	0	21.58	21.70	21.56	22.5
3	16QAM	1	8	21.42	21.66	21.54	
3	16QAM	1	14	21.32	21.66	21.55	
3	16QAM	8	0	20.68	20.62	20.60	21.5
3	16QAM	8	4	20.51	20.72	20.66	
3	16QAM	8	7	20.59	20.58	20.34	
3	16QAM	15	0	20.59	20.73	20.41	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.65	22.75	22.66	23.5
1.4	QPSK	1	3	22.41	22.54	22.67	
1.4	QPSK	1	5	22.71	22.63	22.66	
1.4	QPSK	3	0	21.59	21.65	21.56	22.5
1.4	QPSK	3	1	21.70	21.55	21.55	
1.4	QPSK	3	3	21.58	21.66	21.66	
1.4	QPSK	6	0	21.65	21.61	21.43	21.5
1.4	16QAM	1	0	21.71	21.61	21.64	
1.4	16QAM	1	3	21.35	21.40	21.69	
1.4	16QAM	1	5	21.36	21.68	21.48	22.5
1.4	16QAM	3	0	20.71	20.68	20.60	
1.4	16QAM	3	1	20.53	20.75	20.73	
1.4	16QAM	3	3	20.53	20.59	20.51	21.5
1.4	16QAM	6	0	20.49	20.45	20.52	



Band 71 (dBm)							
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	22.75	22.86	22.67	23.5
20	QPSK	1	49	22.66	22.72	22.53	
20	QPSK	1	99	22.61	22.81	22.78	
20	QPSK	50	0	21.67	21.88	21.82	22.5
20	QPSK	50	24	21.69	21.77	21.78	
20	QPSK	50	50	21.47	21.82	21.50	
20	QPSK	100	0	21.81	21.56	21.58	22.5
20	16QAM	1	0	21.71	21.67	21.61	
20	16QAM	1	49	21.50	21.83	21.74	
20	16QAM	1	99	21.61	21.53	21.49	21.5
20	16QAM	50	0	20.65	20.74	20.88	
20	16QAM	50	24	20.82	20.86	20.63	
20	16QAM	50	50	20.63	20.53	20.50	
20	16QAM	100	0	20.59	20.58	20.74	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.79	22.82	22.68	23.5
15	QPSK	1	37	22.79	22.75	22.55	
15	QPSK	1	74	22.78	22.73	22.81	
15	QPSK	36	0	21.77	21.79	21.82	22.5
15	QPSK	36	20	21.66	21.65	21.75	
15	QPSK	36	39	21.70	21.81	21.56	
15	QPSK	75	0	21.50	21.83	21.74	22.5
15	16QAM	1	0	21.84	21.71	21.74	
15	16QAM	1	37	21.50	21.61	21.75	
15	16QAM	1	74	21.62	21.71	21.50	21.5
15	16QAM	36	0	20.94	20.95	20.79	
15	16QAM	36	20	20.85	20.91	20.63	
15	16QAM	36	39	20.85	20.80	20.68	
15	16QAM	75	0	20.56	20.62	20.77	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	22.74	22.79	22.68	23.5
10	QPSK	1	25	22.79	22.60	22.56	
10	QPSK	1	49	22.64	22.71	22.59	
10	QPSK	25	0	21.55	21.64	21.59	22.5
10	QPSK	25	12	21.53	21.70	21.68	
10	QPSK	25	25	21.47	21.59	21.62	
10	QPSK	50	0	21.75	21.83	21.46	22.5
10	16QAM	1	0	21.56	21.76	21.66	
10	16QAM	1	25	21.57	21.61	21.78	
10	16QAM	1	49	21.35	21.60	21.63	21.5
10	16QAM	25	0	20.71	20.72	20.65	
10	16QAM	25	12	20.71	20.60	20.73	
10	16QAM	25	25	20.91	20.82	20.78	
10	16QAM	50	0	20.86	20.54	20.53	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	22.75	22.81	22.67	23.5
5	QPSK	1	12	22.66	22.67	22.54	
5	QPSK	1	24	22.71	22.63	22.68	
5	QPSK	12	0	21.75	21.53	21.53	22.5
5	QPSK	12	7	21.72	21.85	21.55	
5	QPSK	12	13	21.60	21.59	21.78	
5	QPSK	25	0	21.50	21.67	21.62	22.5
5	16QAM	1	0	21.83	21.83	21.64	
5	16QAM	1	12	21.62	21.83	21.80	
5	16QAM	1	24	21.43	21.54	21.57	21.5
5	16QAM	12	0	20.78	20.98	20.79	
5	16QAM	12	7	20.68	20.60	20.55	
5	16QAM	12	13	20.97	20.53	20.67	
5	16QAM	25	0	20.56	20.79	20.60	

2.4GHz WLAN ANT 1

2.4GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	13.24	14.00	9.00	99.71
		CH 7	2442	15.59	16.50	12.00	
		CH 13	2472	11.11	12.00	7.00	
	802.11g 6Mbps	CH 1	2412	13.44	14.00	11.00	98.48
		CH 7	2442	13.78	14.50	11.00	
		CH 13	2472	9.74	10.50	9.00	
	802.11n-HT20 MCS0	CH 1	2412	11.44	12.00	10.00	98.27
		CH 7	2442	11.57	12.50	10.00	
		CH 13	2472	9.68	10.50	8.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	8.46	5.04	5.05
	CH 39	2441	6.91	4.70	4.75
	CH 78	2480	8.64	5.94	6.18
Tune-up Limit			9.5	6.5	7
Duty Cycle %			77.33	77.07	77.07

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	-1.34
	CH 19	2440	-0.59
	CH 39	2480	1.91
Tune-up Limit			2.5
Duty Cycle %			63.12

**Reduced Power**

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		28.00	28.03	27.96	29.00	19.00	19.03	18.96	20.00
GPRS 1 Tx slot		27.95	28.02	27.89	29.00	18.95	19.02	18.89	20.00
GPRS 2 Tx slots		25.69	25.75	25.64	26.50	19.69	19.75	19.64	20.50
GPRS 3 Tx slots		24.11	24.14	24.06	25.00	19.85	19.88	19.80	20.74
GPRS 4 Tx slots		21.83	21.92	21.80	22.50	18.83	18.92	18.80	19.50
EDGE 1 Tx slot		24.17	24.25	24.11	25.00	15.17	15.25	15.11	16.00
EDGE 2 Tx slots		22.29	22.36	22.25	23.00	16.29	16.36	16.25	17.00
EDGE 3 Tx slots		19.38	19.41	19.33	20.00	15.12	15.15	15.07	15.74
EDGE 4 Tx slots		16.09	16.12	16.04	17.00	13.09	13.12	13.04	14.00
Mode			Max.	28.03			Max.	19.88	
Attenuator		Cable Loss : 0.8							

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	15.30	15.32	15.27	16.00	14.73	14.85	14.84	15.50
3GPP Rel 6	HSDPA Subtest-1	14.49	14.72	14.76	15.50	12.64	12.46	12.78	13.50
3GPP Rel 6	HSDPA Subtest-2	14.03	14.33	14.36	15.00	13.15	13.02	13.27	14.00
3GPP Rel 6	HSDPA Subtest-3	14.14	14.47	14.50	15.00	13.08	12.99	13.23	14.00
3GPP Rel 6	HSDPA Subtest-4	13.82	14.13	14.17	15.00	13.05	13.00	13.24	14.00
3GPP Rel 6	HSUPA Subtest-1	11.91	12.25	12.43	13.00	11.21	11.24	11.55	12.50
3GPP Rel 6	HSUPA Subtest-2	11.71	12.04	12.19	13.00	10.47	10.31	10.54	11.50
3GPP Rel 6	HSUPA Subtest-3	12.16	12.50	12.67	13.50	11.25	11.25	11.51	12.50
3GPP Rel 6	HSUPA Subtest-4	12.19	12.57	12.72	13.50	10.80	10.80	11.06	12.00
3GPP Rel 6	HSUPA Subtest-5	14.24	14.53	14.61	15.50	13.02	12.89	13.18	14.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	13.62	14.09	14.00	15.00	13.54	13.85	13.60	14.50
Attenuator			Cable Loss	0.8			Cable Loss	0.8	
Mode			Max.	15.32			Max.	14.85	



Band 2 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1880	1880	1900	
20	QPSK	1	0	17.73	17.78	17.69	18.5
20	QPSK	1	49	17.61	17.71	17.58	
20	QPSK	1	99	17.64	17.73	17.70	
20	QPSK	50	0	16.51	16.58	16.53	17.5
20	QPSK	50	24	16.55	16.56	16.49	
20	QPSK	50	50	16.48	16.52	16.53	
20	QPSK	100	0	16.51	16.53	16.50	17.5
20	16QAM	1	0	16.58	16.61	16.53	
20	16QAM	1	49	16.55	16.53	16.56	
20	16QAM	1	99	16.21	16.56	16.52	16.5
20	16QAM	50	0	15.66	15.69	15.63	
20	16QAM	50	24	15.64	15.63	15.59	
20	16QAM	50	50	15.67	15.54	15.52	16.5
20	16QAM	100	0	15.59	15.58	15.55	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.73	17.75	17.67	18.5
15	QPSK	1	37	17.63	17.70	17.44	
15	QPSK	1	74	17.60	17.64	17.58	
15	QPSK	36	0	16.40	16.69	16.47	17.5
15	QPSK	36	20	16.68	16.37	16.44	
15	QPSK	36	39	16.38	16.45	16.53	
15	QPSK	75	0	16.43	16.49	16.44	17.5
15	16QAM	1	0	16.51	16.61	16.52	
15	16QAM	1	37	16.56	16.49	16.60	
15	16QAM	1	74	16.58	16.64	16.63	16.5
15	16QAM	36	0	15.55	15.83	15.77	
15	16QAM	36	20	15.49	15.69	15.72	
15	16QAM	36	39	15.68	15.69	15.52	16.5
15	16QAM	75	0	15.41	15.68	15.54	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.72	17.76	17.55	18.5
10	QPSK	1	25	17.61	17.72	17.51	
10	QPSK	1	49	17.61	17.54	17.60	
10	QPSK	25	0	16.64	16.63	16.41	17.5
10	QPSK	25	12	16.54	16.71	16.58	
10	QPSK	25	25	16.60	16.50	16.59	
10	QPSK	50	0	16.58	16.47	16.43	17.5
10	16QAM	1	0	16.54	16.65	16.66	
10	16QAM	1	25	16.59	16.52	16.57	
10	16QAM	1	49	16.53	16.69	16.41	16.5
10	16QAM	25	0	15.58	15.60	15.71	
10	16QAM	25	12	15.65	15.56	15.49	
10	16QAM	25	25	15.77	15.40	15.58	16.5
10	16QAM	50	0	15.56	15.71	15.51	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.58	17.72	17.61	18.5
5	QPSK	1	12	17.74	17.61	17.48	
5	QPSK	1	24	17.46	17.56	17.64	
5	QPSK	12	0	16.61	16.64	16.55	17.5
5	QPSK	12	7	16.67	16.69	16.63	
5	QPSK	12	13	16.59	16.65	16.45	
5	QPSK	25	0	16.42	16.34	16.55	17.5
5	16QAM	1	0	16.72	16.56	16.64	
5	16QAM	1	12	16.52	16.49	16.55	
5	16QAM	1	24	16.57	16.67	16.45	16.5
5	16QAM	12	0	15.60	15.54	15.53	
5	16QAM	12	7	15.49	15.48	15.59	
5	16QAM	12	13	15.70	15.48	15.66	16.5
5	16QAM	25	0	15.43	15.53	15.46	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	17.56	17.76	17.72	18.5
3	QPSK	1	8	17.57	17.59	17.59	
3	QPSK	1	14	17.67	17.71	17.72	
3	QPSK	8	0	16.40	16.48	16.46	17.5
3	QPSK	8	4	16.49	16.56	16.59	
3	QPSK	8	7	16.58	16.41	16.42	
3	QPSK	15	0	16.44	16.55	16.53	17.5
3	16QAM	1	0	16.69	16.68	16.59	
3	16QAM	1	8	16.56	16.55	16.65	
3	16QAM	1	14	16.60	16.41	16.51	16.5
3	16QAM	8	0	15.59	15.76	15.59	
3	16QAM	8	4	15.54	15.55	15.56	
3	16QAM	8	7	15.60	15.45	15.51	16.5
3	16QAM	15	0	15.60	15.64	15.45	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.74	17.75	17.62	18.5
1.4	QPSK	1	3	17.69	17.53	17.53	
1.4	QPSK	1	5	17.68	17.60	17.70	
1.4	QPSK	3	0	16.66	16.64	16.59	17.5
1.4	QPSK	3	1	16.60	16.57	16.51	
1.4	QPSK	3	3	16.56	16.61	16.54	
1.4	QPSK	6	0	16.31	16.53	16.44	17.5
1.4	16QAM	1	0	16.51	16.61	16.59	
1.4	16QAM	1	3	16.36	16.41	16.54	
1.4	16QAM	1	5	16.33	16.47	16.55	17.5
1.4	16QAM	3	0	15.73	15.55	15.70	
1.4	16QAM	3	1	15.60	15.78	15.50	
1.4	16QAM	3	3	15.71	15.68	15.50	16.5
1.4	16QAM	6	0	15.60	15.43	15.58	

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)							
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	17.16	17.18	17.09	18
20	QPSK	1	49	17.01	17.15	16.89	
20	QPSK	1	99	17.11	17.05	17.09	
20	QPSK	50	0	16.03	16.23	15.96	17
20	QPSK	50	24	16.14	16.18	15.96	
20	QPSK	50	50	16.08	15.99	16.04	
20	QPSK	100	0	15.98	16.18	16.14	17
20	16QAM	1	0	16.23	16.24	16.02	
20	16QAM	1	49	16.14	15.97	16.05	
20	16QAM	1	99	15.99	15.94	16.05	16
20	16QAM	50	0	15.06	15.22	15.06	
20	16QAM	50	24	15.00	15.27	15.17	
20	16QAM	50	50	15.03	15.04	15.04	16
20	16QAM	100	0	15.18	15.17	15.18	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.15	17.15	17.03	18
15	QPSK	1	37	17.08	17.14	16.98	
15	QPSK	1	74	17.09	17.07	17.06	
15	QPSK	36	0	16.11	16.09	16.03	17
15	QPSK	36	20	15.86	16.14	16.14	
15	QPSK	36	39	16.11	15.97	16.05	
15	QPSK	75	0	15.84	15.83	15.96	17
15	16QAM	1	0	16.09	16.05	16.09	
15	16QAM	1	37	16.08	15.93	15.89	
15	16QAM	1	74	15.82	16.19	15.86	16
15	16QAM	36	0	15.13	15.30	15.02	
15	16QAM	36	20	15.22	15.10	15.21	
15	16QAM	36	39	15.29	15.04	15.00	16
15	16QAM	75	0	15.02	15.02	15.10	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	17.10	17.16	17.11	18
10	QPSK	1	25	17.15	17.14	17.16	
10	QPSK	1	49	17.07	17.12	17.08	
10	QPSK	25	0	15.82	16.07	15.83	17
10	QPSK	25	12	15.95	16.03	15.79	
10	QPSK	25	25	16.00	15.87	16.10	
10	QPSK	50	0	15.87	15.89	16.00	17
10	16QAM	1	0	16.09	15.91	15.85	
10	16QAM	1	25	15.86	15.99	15.91	
10	16QAM	1	49	15.83	15.86	15.92	16
10	16QAM	25	0	15.09	15.19	15.07	
10	16QAM	25	12	15.05	15.19	15.06	
10	16QAM	25	25	15.03	15.03	15.05	16
10	16QAM	50	0	15.03	15.18	15.18	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	17.05	17.14	17.03	18
5	QPSK	1	12	17.05	17.06	17.02	
5	QPSK	1	24	17.09	17.12	17.08	
5	QPSK	12	0	15.86	16.04	15.91	17
5	QPSK	12	7	16.18	15.90	16.10	
5	QPSK	12	13	16.12	16.00	16.15	
5	QPSK	25	0	16.12	16.14	16.00	17
5	16QAM	1	0	16.01	16.07	15.86	
5	16QAM	1	12	15.90	15.92	16.09	
5	16QAM	1	24	15.84	15.91	15.92	16
5	16QAM	12	0	15.25	15.11	15.19	
5	16QAM	12	7	15.28	15.25	15.06	16
5	16QAM	12	13	15.07	15.01	15.05	
5	16QAM	25	0	15.16	15.08	15.14	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	17.04	17.13	17.10	18
3	QPSK	1	8	17.12	17.04	16.93	
3	QPSK	1	14	17.08	17.05	17.07	
3	QPSK	8	0	15.90	16.22	16.15	17
3	QPSK	8	4	16.20	15.94	16.09	
3	QPSK	8	7	15.91	15.83	16.04	
3	QPSK	15	0	15.91	15.92	15.90	17
3	16QAM	1	0	15.94	16.18	15.84	
3	16QAM	1	8	16.11	16.06	16.21	
3	16QAM	1	14	16.02	16.11	15.99	16
3	16QAM	8	0	15.05	15.04	15.19	
3	16QAM	8	4	15.06	15.22	15.10	
3	16QAM	8	7	15.01	15.01	15.03	16
3	16QAM	15	0	15.08	15.21	15.16	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	17.07	17.11	17.06	18
1.4	QPSK	1	3	17.03	17.04	17.01	
1.4	QPSK	1	5	17.06	17.05	17.06	
1.4	QPSK	3	0	16.06	16.08	16.06	
1.4	QPSK	3	1	16.05	16.15	16.10	
1.4	QPSK	3	3	16.06	16.12	16.03	17
1.4	QPSK	6	0	16.03	16.18	15.85	
1.4	16QAM	1	0	16.04	16.08	15.96	
1.4	16QAM	1	3	16.16	16.15	16.17	17
1.4	16QAM	1	5	15.78	15.88	15.98	
1.4	16QAM	3	0	15.06	15.02	15.08	
1.4	16QAM	3	1	15.15	15.03	15.09	
1.4	16QAM	3	3	15.28	15.13	15.13	
1.4	16QAM	6	0	15.03	15.21	15.08	16



Band 66 (dBm)							
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	17.20	17.29	17.11	18
20	QPSK	1	49	16.99	17.23	17.21	
20	QPSK	1	99	17.14	17.10	17.10	
20	QPSK	50	0	16.09	16.34	16.03	
20	QPSK	50	24	16.10	16.12	16.10	17
20	QPSK	50	50	16.03	16.01	15.89	
20	QPSK	100	0	16.04	16.15	16.05	
20	16QAM	1	0	16.18	16.13	16.13	
20	16QAM	1	49	15.89	16.01	16.14	17
20	16QAM	1	99	15.79	15.93	16.16	
20	16QAM	50	0	15.30	15.30	15.24	
20	16QAM	50	24	15.08	15.11	15.09	
20	16QAM	50	50	15.04	15.05	15.07	16
20	16QAM	100	0	15.16	15.06	15.09	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	17.06	17.25	17.06	18
15	QPSK	1	37	17.03	17.24	17.16	
15	QPSK	1	74	17.12	17.07	17.13	
15	QPSK	36	0	15.85	16.24	16.07	
15	QPSK	36	20	15.95	15.99	16.01	17
15	QPSK	36	39	15.85	16.17	16.00	
15	QPSK	75	0	15.99	15.99	15.85	
15	16QAM	1	0	16.20	15.95	16.01	
15	16QAM	1	37	15.95	16.09	15.98	17
15	16QAM	1	74	15.84	16.21	15.97	
15	16QAM	36	0	15.27	15.27	15.09	
15	16QAM	36	20	15.24	15.23	15.11	
15	16QAM	36	39	15.09	15.11	15.07	16
15	16QAM	75	0	15.06	15.03	15.05	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	17.10	17.26	17.09	18
10	QPSK	1	25	17.09	17.26	16.99	
10	QPSK	1	49	16.99	17.17	17.18	
10	QPSK	25	0	15.93	16.00	16.02	
10	QPSK	25	12	15.85	16.15	16.09	17
10	QPSK	25	25	16.07	16.01	16.03	
10	QPSK	50	0	16.00	16.00	16.07	
10	16QAM	1	0	16.06	16.16	16.10	
10	16QAM	1	25	16.07	15.93	16.16	17
10	16QAM	1	49	16.03	16.06	15.87	
10	16QAM	25	0	15.07	15.09	15.06	
10	16QAM	25	12	15.07	15.04	15.01	
10	16QAM	25	25	15.26	15.19	15.09	16
10	16QAM	50	0	15.04	15.07	15.09	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	17.19	17.23	17.18	18
5	QPSK	1	12	17.05	17.12	17.22	
5	QPSK	1	24	17.15	17.22	17.03	
5	QPSK	12	0	16.04	15.93	16.05	
5	QPSK	12	7	15.94	16.16	15.99	17
5	QPSK	12	13	16.01	16.05	15.89	
5	QPSK	25	0	16.10	15.84	16.02	
5	16QAM	1	0	16.16	16.20	15.96	
5	16QAM	1	12	16.20	16.04	15.93	17
5	16QAM	1	24	16.11	16.05	15.94	
5	16QAM	12	0	15.06	15.23	15.02	
5	16QAM	12	7	15.25	15.08	15.13	
5	16QAM	12	13	15.25	15.16	15.08	16
5	16QAM	25	0	15.14	15.13	15.06	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	17.06	17.24	17.04	18
3	QPSK	1	8	16.98	17.10	17.15	
3	QPSK	1	14	17.19	17.16	17.13	
3	QPSK	8	0	15.98	16.04	16.05	
3	QPSK	8	4	15.95	15.88	15.80	17
3	QPSK	8	7	16.02	15.88	15.99	
3	QPSK	15	0	15.92	16.16	15.96	
3	16QAM	1	0	16.08	16.20	16.06	
3	16QAM	1	8	15.92	16.16	16.04	17
3	16QAM	1	14	15.82	16.16	16.05	
3	16QAM	8	0	15.18	15.12	15.10	
3	16QAM	8	4	15.01	15.22	15.16	
3	16QAM	8	7	15.09	15.08	15.04	16
3	16QAM	15	0	15.09	15.23	15.11	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.15	17.25	17.16	18
1.4	QPSK	1	3	16.91	17.04	17.17	
1.4	QPSK	1	5	17.21	17.13	17.16	
1.4	QPSK	3	0	16.09	16.15	16.06	
1.4	QPSK	3	1	16.20	16.05	16.05	17
1.4	QPSK	3	3	16.08	16.16	16.16	
1.4	QPSK	6	0	16.15	16.11	15.93	
1.4	16QAM	1	0	16.21	16.11	16.14	
1.4	16QAM	1	3	15.85	15.90	16.19	17
1.4	16QAM	1	5	15.86	16.18	15.98	
1.4	16QAM	3	0	15.21	15.18	15.10	
1.4	16QAM	3	1	15.03	15.25	15.23	
1.4	16QAM	3	3	15.03	15.09	15.01	16
1.4	16QAM	6	0	15.06	15.05	15.02	