Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacturer's document.

Full Power for ANT 0 & ANT 1 & ANT 2 & ANT 3 & ANT 4 & WIFI 1 & WIFI 2

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	
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	23.04	23.11	23.05	24.00	23.06	23.12	23.03	24.00	23.01	23.07	23.04	24.00
3GPP Rel 5	HSDPA Subtest-1	22.63	22.58	22.36	23.50	22.37	22.40	22.44	23.00	22.18	22.22	22.13	23.00
3GPP Rel 5	HSDPA Subtest-2	22.60	22.53	22.48	23.50	22.26	22.38	22.49	23.00	22.20	22.07	22.11	23.00
3GPP Rel 5	HSDPA Subtest-3	22.18	22.06	21.87	23.00	21.87	21.91	21.88	22.50	21.57	21.60	21.63	22.50
3GPP Rel 5	HSDPA Subtest-4	22.18	22.06	21.83	23.00	21.51	21.86	21.95	22.50	21.71	21.61	21.46	22.50
3GPP Rel 6	HSUPA Subtest-1	22.68	22.63	22.52	23.50	22.35	22.44	22.45	23.00	22.13	22.20	22.03	23.00
3GPP Rel 6	HSUPA Subtest-2	22.22	22.07	21.96	23.00	21.83	21.93	21.93	22.50	21.60	21.67	21.70	22.50
3GPP Rel 6	HSUPA Subtest-3	22.67	22.62	22.59	23.50	22.32	22.47	22.47	23.00	22.06	22.17	22.08	23.00
3GPP Rel 6	HSUPA Subtest-4	22.70	22.62	22.47	23.50	22.30	22.48	22.50	23.00	22.18	22.13	22.01	23.00
3GPP Rel 6	HSUPA Subtest-5	22.69	22.57	22.45	23.50	22.36	22.46	22.46	23.00	22.14	22.22	22.14	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	22.69	22.59	22.39	23.50	22.27	22.35	22.38	23.00	22.46	22.14	21.96	23.00
Attenuator			Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode			Max.	23.11			Max.	23.12			Max.	23.07	

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	22.77	22.81	22.74	24
20	QPSK	1	49	22.71	22.76	22.69	
20	QPSK	1	99	22.72	22.70	22.65	
20	QPSK	50	0	21.86	21.90	21.84	23
20	QPSK	50	24	21.75	21.82	21.77	
20	QPSK	50	50	21.70	21.79	21.68	
20	QPSK	100	0	21.74	21.76	21.71	
20	16QAM	1	0	21.96	22.02	21.97	23
20	16QAM	1	49	21.92	21.95	21.89	
20	16QAM	1	99	21.85	21.93	21.86	
20	16QAM	50	0	20.82	20.91	20.87	22
20	16QAM	50	24	20.75	20.85	20.79	
20	16QAM	50	50	20.68	20.82	20.75	
20	16QAM	100	0	20.73	20.77	20.80	
20	64QAM	1	0	20.84	20.89	20.83	22
20	64QAM	1	49	20.77	20.84	20.75	
20	64QAM	1	99	20.71	20.73	20.70	
20	64QAM	50	0	19.77	19.85	19.79	21
20	64QAM	50	24	19.68	19.70	19.82	
20	64QAM	50	50	19.73	19.78	19.74	
20	64QAM	100	0	19.65	19.73	19.68	
20	256QAM	1	0	17.90	17.95	17.69	19
20	256QAM	1	49	17.68	17.88	17.86	
20	256QAM	1	99	17.86	17.73	17.71	
20	256QAM	50	0	16.72	16.85	16.74	18
20	256QAM	50	24	16.68	16.83	16.88	
20	256QAM	50	50	16.81	16.79	16.66	
20	256QAM	100	0	16.72	16.82	16.63	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.77	22.79	22.73	24
15	QPSK	1	37	22.61	22.76	22.68	
15	QPSK	1	74	22.75	22.73	22.67	
15	QPSK	36	0	21.77	21.83	21.91	23
15	QPSK	36	20	21.72	21.75	21.70	
15	QPSK	36	39	21.68	21.76	21.72	
15	QPSK	75	0	21.69	21.67	21.71	
15	16QAM	1	0	21.97	22.04	22.03	23
15	16QAM	1	37	21.99	21.95	21.87	
15	16QAM	1	74	21.81	21.80	21.84	
15	16QAM	36	0	20.70	20.96	20.93	22
15	16QAM	36	20	20.63	20.80	20.88	
15	16QAM	36	39	20.74	20.80	20.82	
15	16QAM	75	0	20.78	20.66	20.71	
15	64QAM	1	0	20.80	20.91	20.87	22
15	64QAM	1	37	20.63	20.86	20.71	
15	64QAM	1	74	20.71	20.64	20.63	
15	64QAM	36	0	19.62	19.83	19.85	21
15	64QAM	36	20	19.68	19.79	19.79	
15	64QAM	36	39	19.59	19.83	19.74	
15	64QAM	75	0	19.64	19.79	19.58	
15	256QAM	1	0	17.90	17.94	17.72	19
15	256QAM	1	37	17.65	17.86	17.94	
15	256QAM	1	74	17.68	17.69	17.57	
15	256QAM	36	0	16.59	16.92	16.79	18
15	256QAM	36	20	16.65	16.70	16.87	
15	256QAM	36	39	16.67	16.63	16.68	
15	256QAM	75	0	16.61	16.77	16.62	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.74	22.77	22.69	24
10	QPSK	1	25	22.67	22.75	22.72	
10	QPSK	1	49	22.62	22.70	22.65	
10	QPSK	25	0	21.84	21.82	21.87	23
10	QPSK	25	12	21.66	21.79	21.82	
10	QPSK	25	25	21.79	21.69	21.64	
10	QPSK	50	0	21.65	21.85	21.75	
10	16QAM	1	0	21.97	22.09	21.94	23
10	16QAM	1	25	21.86	22.03	21.99	
10	16QAM	1	49	21.71	21.94	21.94	
10	16QAM	25	0	20.75	20.85	20.83	22
10	16QAM	25	12	20.70	20.87	20.86	
10	16QAM	25	25	20.65	20.88	20.63	
10	16QAM	50	0	20.64	20.76	20.87	
10	64QAM	1	0	20.94	20.77	20.84	22
10	64QAM	1	25	20.74	20.84	20.71	
10	64QAM	1	49	20.67	20.74	20.76	
10	64QAM	25	0	19.68	19.83	19.67	21
10	64QAM	25	12	19.70	19.75	19.71	
10	64QAM	25	25	19.80	19.67	19.75	
10	64QAM	50	0	19.74	19.79	19.68	
10	256QAM	1	0	17.76	17.93	17.63	19
10	256QAM	1	25	17.69	17.90	17.90	
10	256QAM	1	49	17.79	17.64	17.66	
10	256QAM	25	0	16.75	16.82	16.78	18
10	256QAM	25	12	16.58	16.83	16.86	
10	256QAM	25	25	16.76	16.64	16.55	
10	256QAM	50	0	16.61	16.83	16.69	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.77	22.78	22.73	24
5	QPSK	1	12	22.76	22.74	22.63	
5	QPSK	1	24	22.70	22.74	22.66	
5	QPSK	12	0	21.81	21.94	21.92	23
5	QPSK	12	7	21.77	21.86	21.76	

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	22.78	22.85	22.72	24
20	QPSK	1	49	22.60	22.76	22.58	
20	QPSK	1	99	22.79	22.70	22.67	
20	QPSK	50	0	21.88	21.90	21.86	23
20	QPSK	50	24	21.65	21.82	21.71	
20	QPSK	50	50	21.74	21.89	21.73	
20	QPSK	100	0	21.65	21.81	21.79	
20	16QAM	1	0	22.06	22.06	21.83	23
20	16QAM	1	49	21.82	21.86	21.90	
20	16QAM	1	99	21.82	21.82	21.73	
20	16QAM	50	0	20.88	20.83	20.87	22
20	16QAM	50	24	20.75	20.87	20.65	
20	16QAM	50	50	20.60	20.69	20.78	
20	16QAM	100	0	20.79	20.77	20.73	
20	64QAM	1	0	20.89	20.89	20.90	22
20	64QAM	1	49	20.82	20.83	20.83	
20	64QAM	1	99	20.57	20.75	20.65	
20	64QAM	50	0	19.80	19.76	19.77	21
20	64QAM	50	24	19.54	19.67	19.85	
20	64QAM	50	50	19.79	19.69	19.71	
20	64QAM	100	0	19.56	19.67	19.74	
20	256QAM	1	0	17.79	17.85	17.70	19
20	256QAM	1	49	17.75	17.92	17.95	
20	256QAM	1	99	17.78	17.74	17.66	
20	256QAM	50	0	16.62	16.84	16.85	18
20	256QAM	50	24	16.58	16.85	16.77	
20	256QAM	50	50	16.84	16.70	16.72	
20	256QAM	100	0	16.60	16.82	16.51	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.75	22.82	22.76	24
15	QPSK	1	37	22.58	22.72	22.74	
15	QPSK	1	74	22.76	22.67	22.62	
15	QPSK	36	0	21.73	21.78	21.88	23
15	QPSK	36	20	21.78	21.93	21.83	
15	QPSK	36	39	21.72	21.75	21.65	
15	QPSK	75	0	21.84	21.72	21.74	
15	16QAM	1	0	22.00	22.10	21.83	23
15	16QAM	1	37	21.93	21.89	21.91	
15	16QAM	1	74	21.76	21.89	21.75	
15	16QAM	36	0	20.70	21.01	20.79	22
15	16QAM	36	20	20.82	20.78	20.83	
15	16QAM	36	39	20.77	20.87	20.63	
15	16QAM	75	0	20.72	20.83	20.66	
15	64QAM	1	0	20.79	20.99	20.94	22
15	64QAM	1	37	20.70	20.70	20.76	
15	64QAM	1	74	20.77	20.74	20.62	
15	64QAM	36	0	19.85	19.95	19.73	21
15	64QAM	36	20	19.70	19.78	19.76	
15	64QAM	36	39	19.71	19.78	19.73	
15	64QAM	75	0	19.62	19.72	19.58	
15	256QAM	1	0	17.84	17.86	17.63	19
15	256QAM	1	37	17.65	17.81	17.79	
15	256QAM	1	74	17.71	17.75	17.57	
15	256QAM	36	0	16.67	16.85	16.68	18
15	256QAM	36	20	16.72	16.88	16.65	
15	256QAM	36	39	16.69	16.76	16.56	
15	256QAM	75	0	16.68	16.87	16.62	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.75	22.80	22.77	24
10	QPSK	1	25	22.58	22.72	22.67	
10	QPSK	1	49	22.72	22.63	22.52	
10	QPSK	25	0	21.73	21.93	21.77	23
10	QPSK	25	12	21.65	21.85	21.72	
10	QPSK	25	25	21.73	21.89	21.77	
10	QPSK	50	0	21.62	21.87	21.73	
10	16QAM	1	0	21.83	21.94	21.96	23
10	16QAM	1	25	21.98	21.83	21.76	
10	16QAM	1	49	21.91	21.82	21.88	
10	16QAM	25	0	20.69	20.92	20.76	22
10	16QAM	25	12	20.78	20.77	20.78	
10	16QAM	25	25	20.78	20.87	20.86	
10	16QAM	50	0	20.64	20.83	20.91	
10	64QAM	1	0	20.74	20.96	20.83	22
10	64QAM	1	25	20.63	20.89	20.71	
10	64QAM	1	49	20.73	20.74	20.76	
10	64QAM	25	0	19.80	19.83	19.85	21
10	64QAM	25	12	19.58	19.73	19.90	
10	64QAM	25	25	19.65	19.79	19.62	
10	64QAM	50	0	19.61	19.74	19.68	
10	256QAM	1	0	17.85	17.95	17.75	19
10	256QAM	1	25	17.69	17.81	17.80	
10	256QAM	1	49	17.79	17.69	17.77	
10	256QAM	25	0	16.69	16.88	16.76	18
10	256QAM	25	12	16.71	16.73	16.84	
10	256QAM	25	25	16.73	16.61	16.63	
10	256QAM	50	0	16.75	16.77	16.61	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.72	22.81	22.78	24
5	QPSK	1	12	22.72	22.68	22.67	
5	QPSK	1	24	22.64	22.68	22.72	
5	QPSK	12	0	21.75	21.92	21.75	23
5	QPSK	12	7	21.77	21.91	21.71	

5	QPSK	12	13	21.62	21.67	21.63	
5	QPSK	25	0	21.83	21.76	21.77	
5	16QAM	1	0	22.00	21.92	22.01	23
5	16QAM	1	12	21.82	22.00	21.87	
5	16QAM	1	24	21.79	21.93	21.81	
5	16QAM	12	0	20.70	20.93	20.97	22
5	16QAM	12	7	20.82	20.74	20.88	
5	16QAM	12	13	20.68	20.72	20.66	
5	16QAM	25	0	20.61	20.83	20.73	
5	64QAM	1	0	20.78	20.89	20.70	22
5	64QAM	1	12	20.80	20.79	20.85	
5	64QAM	1	24	20.69	20.82	20.56	
5	64QAM	12	0	19.63	19.78	19.75	21
5	64QAM	12	7	19.75	19.66	19.74	
5	64QAM	12	13	19.81	19.73	19.62	
5	64QAM	25	0	19.60	19.61	19.59	
5	256QAM	1	0	17.81	17.98	17.72	19
5	256QAM	1	12	17.71	17.86	17.85	
5	256QAM	1	24	17.71	17.66	17.62	
5	256QAM	12	0	16.70	16.85	16.81	18
5	256QAM	12	7	16.75	16.89	16.81	
5	256QAM	12	13	16.80	16.68	16.58	
5	256QAM	25	0	16.71	16.86	16.59	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.71	22.74	22.70	24
3	QPSK	1	8	22.58	22.62	22.67	
3	QPSK	1	14	22.65	22.70	22.66	
3	QPSK	8	0	21.84	21.75	21.70	23
3	QPSK	8	4	21.72	21.76	21.68	
3	QPSK	8	7	21.70	21.85	21.61	
3	QPSK	15	0	21.77	21.63	21.61	
3	16QAM	1	0	21.81	22.00	21.94	23
3	16QAM	1	8	21.80	21.97	21.92	
3	16QAM	1	14	21.93	21.79	21.74	
3	16QAM	8	0	20.73	20.85	20.80	22
3	16QAM	8	4	20.82	20.94	20.77	
3	16QAM	8	7	20.70	20.91	20.63	
3	16QAM	15	0	20.59	20.65	20.73	
3	64QAM	1	0	20.75	20.84	20.82	22
3	64QAM	1	8	20.68	20.93	20.83	
3	64QAM	1	14	20.76	20.80	20.60	
3	64QAM	8	0	19.86	19.92	19.85	21
3	64QAM	8	4	19.72	19.74	19.74	
3	64QAM	8	7	19.61	19.77	19.75	
3	64QAM	15	0	19.75	19.81	19.69	
3	256QAM	1	0	17.94	17.93	17.63	19
3	256QAM	1	8	17.74	17.75	17.96	
3	256QAM	1	14	17.76	17.67	17.77	
3	256QAM	8	0	16.80	16.96	16.69	19
3	256QAM	8	4	16.69	16.80	16.77	
3	256QAM	8	7	16.83	16.62	16.61	
3	256QAM	15	0	16.72	16.81	16.61	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.71	22.78	22.70	24
1.4	QPSK	1	3	22.57	22.64	22.69	
1.4	QPSK	1	5	22.75	22.69	22.69	
1.4	QPSK	3	0	21.90	21.94	21.69	
1.4	QPSK	3	1	21.84	21.89	21.69	
1.4	QPSK	3	3	21.73	21.81	21.69	
1.4	QPSK	6	0	21.69	21.64	21.59	23
1.4	16QAM	1	0	22.04	21.87	22.01	23
1.4	16QAM	1	3	21.83	21.90	21.74	
1.4	16QAM	1	5	21.89	21.80	21.78	
1.4	16QAM	3	0	20.73	20.93	20.82	
1.4	16QAM	3	1	20.79	20.72	20.79	
1.4	16QAM	3	3	20.73	20.68	20.66	
1.4	16QAM	6	0	20.74	20.73	20.65	22
1.4	64QAM	1	0	20.70	20.93	20.78	22
1.4	64QAM	1	3	20.85	20.78	20.63	
1.4	64QAM	1	5	20.72	20.80	20.60	
1.4	64QAM	3	0	19.74	19.73	19.73	
1.4	64QAM	3	1	19.71	19.80	19.89	
1.4	64QAM	3	3	19.70	19.79	19.82	
1.4	64QAM	6	0	19.74	19.71	19.70	21
1.4	256QAM	1	0	17.79	17.90	17.64	19
1.4	256QAM	1	3	17.67	17.80	17.89	
1.4	256QAM	1	5	17.72	17.64	17.59	
1.4	256QAM	3	0	16.75	16.85	16.70	
1.4	256QAM	3	1	16.75	16.85	16.96	
1.4	256QAM	3	3	16.71	16.72	16.58	
1.4	256QAM	6	0	16.73	16.76	16.62	18

5	QPSK	12	13	21.81	21.65	21.62	
5	QPSK	25	0	21.82	21.67	21.73	
5	16QAM	1	0	21.84	22.08	21.84	23
5	16QAM	1	12	22.00	22.00	21.80	
5	16QAM	1	24	21.72	21.95	21.95	
5	16QAM	12	0	20.72	21.00	20.84	22
5	16QAM	12	7	20.86	20.96	20.84	
5	16QAM	12	13	20.79	20.77	20.65	
5	16QAM	25	0	20.59	20.70	20.89	
5	64QAM	1	0	20.87	20.80	20.82	22
5	64QAM	1	12	20.82	20.75	20.72	
5	64QAM	1	24	20.79	20.78	20.71	
5	64QAM	12	0	19.69	19.83	19.78	21
5	64QAM	12	7	19.62	19.71	19.79	
5	64QAM	12	13	19.75	19.77	19.64	
5	64QAM	25	0	19.75	19.69	19.56	
5	256QAM	1	0	17.82	18.03	17.66	19
5	256QAM	1	12	17.72	17.74	17.76	
5	256QAM	1	24	17.76	17.69	17.80	
5	256QAM	12	0	16.62	16.89	16.80	18
5	256QAM	12	7	16.67	16.77	16.87	
5	256QAM	12	13	16.81	16.63	16.62	
5	256QAM	25	0	16.70	16.90	16.77	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.76	22.77	22.70	24
3	QPSK	1	8	22.75	22.73	22.72	
3	QPSK	1	14	22.68	22.59	22.53	
3	QPSK	8	0	21.92	21.85	21.84	23
3	QPSK	8	4	21.62	21.70	21.83	
3	QPSK	8	7	21.75	21.66	21.56	
3	QPSK	15	0	21.80	21.83	21.67	
3	16QAM	1	0	21.92	22.04	22.05	23
3	16QAM	1	8	21.97	21.87	22.00	
3	16QAM	1	14	21.94	21.90	21.97	
3	16QAM	8	0	20.89	20.91	20.88	22
3	16QAM	8	4	20.72	20.78	20.90	
3	16QAM	8	7	20.75	20.79	20.63	
3	16QAM	15	0	20.79	20.67	20.77	
3	64QAM	1	0	20.76	20.89	20.73	22
3	64QAM	1	8	20.73	20.93	20.83	
3	64QAM	1	14	20.71	20.68	20.57	
3	64QAM	8	0	19.71	19.81	19.85	21
3	64QAM	8	4	19.64	19.76	19.83	
3	64QAM	8	7	19.74	19.69	19.68	
3	64QAM	15	0	19.53	19.78	19.63	
3	256QAM	1	0	17.83	17.91	17.65	19
3	256QAM	1	8	17.77	17.78	17.92	
3	256QAM	1	14	17.79	17.61	17.57	
3	256QAM	8	0	16.68	16.83	16.84	18
3	256QAM	8	4	16.74	16.74	16.82	
3	256QAM	8	7	16.67	16.64	16.61	
3	256QAM	15	0	16.68	16.89	16.65	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.75	22.78	22.73	24
1.4	QPSK	1	3	22.74	22.71	22.64	
1.4	QPSK	1	5	22.65	22.75	22.67	
1.4	QPSK	3	0	21.97	21.90	21.88	
1.4	QPSK	3	1	21.67	21.83	21.82	
1.4	QPSK	3	3	21.72	21.72	21.76	
1.4	QPSK	6	0	21.82	21.82	21.63	23
1.4	16QAM	1	0	21.95	21.90	21.83	23
1.4	16QAM	1	3	21.87	21.92	21.86	
1.4	16QAM	1	5	21.96	21.96	21.81	
1.4	16QAM	3	0	20.81	20.95	20.80	
1.4	16QAM	3	1	20.74	20.71	20.87	
1.4	16QAM	3	3	20.77	20.80	20.82	
1.4	16QAM	6	0	20.71	20.80	20.91	22
1.4	64QAM	1	0	20.83	20.86	20.85	22
1.4	64QAM	1	3	20.84	20.93	20.78	
1.4	64QAM	1	5	20.72	20.77	20.72	
1.4	64QAM	3	0	19.85	19.75	19.68	
1.4	64QAM	3	1	19.70	19.72	19.71	
1.4	64QAM	3	3	19.72	19.74	19.70	
1.4	64QAM	6	0	19.72	19.74	19.55	21
1.4	256QAM	1	0	17.93	17.89	17.67	19
1.4	256QAM	1	3	17.61	17.78	17.87	
1.4	256QAM	1	5	17.74	17.69	17.65	
1.4	256QAM	3	0	16.73	16.84	16.73	
1.4	256QAM	3	1	16.61	16.70	16.90	
1.4	256QAM	3	3	16.82	16.64	16.66	
1.4	256QAM	6	0	16.73	16.82	16.63	18

Band 5 (Celluar 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	23.04	23.09	23.03	24
10	QPSK	1	25	23.05	23.02	22.95	
10	QPSK	1	49	23.01	23.06	22.93	
10	QPSK	25	0	22.04	22.10	22.00	23
10	QPSK	25	12	21.92	22.09	21.95	
10	QPSK	25	25	22.09	22.09	22.05	
10	QPSK	50	0	22.03	22.02	22.07	
10	16QAM	1	0	22.22	22.25	22.13	23
10	16QAM	1	25	22.11	22.21	22.28	
10	16QAM	1	49	22.05	22.07	22.24	
10	16QAM	25	0	21.06	21.08	21.10	22
10	16QAM	25	12	21.10	21.20	21.04	
10	16QAM	25	25	20.92	21.01	21.02	
10	16QAM	50	0	21.09	21.03	20.97	
10	64QAM	1	0	21.19	21.15	21.10	22
10	64QAM	1	25	21.10	20.98	20.93	
10	64QAM	1	49	21.08	21.03	20.97	
10	64QAM	25	0	19.98	20.03	20.10	21
10	64QAM	25	12	19.95	20.06	20.14	
10	64QAM	25	25	20.03	20.09	19.93	
10	64QAM	50	0	19.88	20.09	20.07	
10	256QAM	1	0	17.93	17.84	17.72	19
10	256QAM	1	25	17.68	17.82	17.94	
10	256QAM	1	49	17.83	17.66	17.69	
10	256QAM	25	0	16.70	16.93	16.78	18
10	256QAM	25	12	16.62	16.71	16.86	
10	256QAM	25	25	16.81	16.69	16.62	
10	256QAM	50	0	16.72	16.81	16.57	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.03	23.07	23.01	24
5	QPSK	1	12	22.87	23.08	23.07	
5	QPSK	1	24	22.97	23.08	22.81	
5	QPSK	12	0	22.11	22.23	22.03	23
5	QPSK	12	7	21.97	22.19	22.15	
5	QPSK	12	13	21.95	21.94	22.04	
5	QPSK	25	0	21.89	22.12	21.95	
5	16QAM	1	0	22.12	22.34	22.14	23
5	16QAM	1	12	22.09	22.22	22.20	
5	16QAM	1	24	22.13	22.12	22.11	
5	16QAM	12	0	21.07	21.06	21.03	22
5	16QAM	12	7	20.98	21.23	21.12	
5	16QAM	12	13	20.95	21.16	21.04	
5	16QAM	25	0	20.89	21.08	21.02	
5	64QAM	1	0	21.12	21.20	20.97	22
5	64QAM	1	12	21.11	21.14	21.11	
5	64QAM	1	24	20.98	20.87	21.07	
5	64QAM	12	0	20.02	20.16	20.06	21
5	64QAM	12	7	20.06	19.94	19.99	
5	64QAM	12	13	20.08	20.09	20.02	
5	64QAM	25	0	19.99	19.89	19.84	
5	256QAM	1	0	17.92	17.92	17.77	19
5	256QAM	1	12	17.77	17.85	17.82	
5	256QAM	1	24	17.70	17.73	17.65	
5	256QAM	12	0	16.69	16.86	16.80	18
5	256QAM	12	7	16.73	16.88	16.83	
5	256QAM	12	13	16.80	16.72	16.61	
5	256QAM	25	0	16.65	16.88	16.67	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.96	23.04	22.91	24
3	QPSK	1	8	22.94	22.96	22.89	
3	QPSK	1	14	22.92	23.00	23.03	
3	QPSK	8	0	22.16	22.12	22.17	23
3	QPSK	8	4	21.98	22.18	21.95	
3	QPSK	8	7	22.06	22.17	21.91	
3	QPSK	15	0	22.05	21.91	21.93	
3	16QAM	1	0	22.13	22.25	22.18	23
3	16QAM	1	8	22.09	22.34	22.03	
3	16QAM	1	14	22.23	22.29	22.22	
3	16QAM	8	0	21.08	21.11	21.02	22
3	16QAM	8	4	21.05	21.21	21.17	
3	16QAM	8	7	20.86	21.08	21.07	
3	16QAM	15	0	20.90	21.03	21.11	
3	64QAM	1	0	21.20	21.19	20.98	22
3	64QAM	1	8	21.08	21.21	21.00	
3	64QAM	1	14	20.99	21.06	20.91	
3	64QAM	8	0	20.07	20.14	19.94	21
3	64QAM	8	4	19.93	20.01	20.08	
3	64QAM	8	7	19.90	20.02	20.03	
3	64QAM	15	0	19.84	20.03	20.03	
3	256QAM	1	0	17.89	17.92	17.65	19
3	256QAM	1	8	17.64	17.87	17.96	
3	256QAM	1	14	17.72	17.64	17.60	
3	256QAM	8	0	16.59	16.82	16.79	18
3	256QAM	8	4	16.62	16.70	16.81	
3	256QAM	8	7	16.83	16.70	16.64	
3	256QAM	15	0	16.70	16.84	16.58	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.99	23.01	22.98	24
1.4	QPSK	1	3	22.95	23.03	23.01	
1.4	QPSK	1	5	22.99	22.96	22.89	
1.4	QPSK	3	0	22.00	22.13	22.02	
1.4	QPSK	3	1	22.05	22.21	21.96	

Band 7 (2600MHz Band) (dBm)
Part 27

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	23.00	23.09	23.03	24
20	QPSK	1	49	22.89	23.01	22.86	
20	QPSK	1	99	22.95	22.89	22.83	
20	QPSK	50	0	22.08	22.23	22.14	23
20	QPSK	50	24	21.86	22.13	22.03	
20	QPSK	50	50	21.85	21.90	21.91	
20	QPSK	100	0	22.06	21.91	21.88	
20	16QAM	1	0	22.07	22.16	22.29	23
20	16QAM	1	49	22.04	22.18	22.16	
20	16QAM	1	99	21.98	22.09	22.11	
20	16QAM	50	0	20.95	21.17	21.09	22
20	16QAM	50	24	21.07	20.95	20.99	
20	16QAM	50	50	20.90	21.05	20.88	
20	16QAM	100	0	20.84	21.07	21.03	
20	64QAM	1	0	21.12	21.08	21.09	22
20	64QAM	1	49	21.04	20.93	21.05	
20	64QAM	1	99	20.96	21.04	21.04	
20	64QAM	50	0	19.88	20.15	20.02	21
20	64QAM	50	24	19.94	19.95	20.04	
20	64QAM	50	50	20.07	20.10	19.87	
20	64QAM	100	0	19.80	19.97	19.97	
20	256QAM	1	0	17.82	18.01	17.62	19
20	256QAM	1	49	17.78	17.76	17.86	
20	256QAM	1	99	17.79	17.69	17.66	
20	256QAM	50	0	16.68	16.88	16.79	18
20	256QAM	50	24	16.58	16.75	16.82	
20	256QAM	50	50	16.73	16.70	16.71	
20	256QAM	100	0	16.62	16.76	16.66	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.02	23.06	22.96	24
15	QPSK	1	37	22.98	22.90	23.02	
15	QPSK	1	74	22.85	22.97	22.92	
15	QPSK	36	0	22.12	22.02	22.01	23
15	QPSK	36	20	21.86	21.98	21.91	
15	QPSK	36	39	22.04	22.09	21.77	
15	QPSK	75	0	21.90	22.04	21.85	
15	16QAM	1	0	22.30	22.22	22.13	23
15	16QAM	1	37	22.08	22.25	22.10	
15	16QAM	1	74	22.16	22.07	21.95	
15	16QAM	36	0	21.08	21.07	21.19	22
15	16QAM	36	20	20.85	21.12	20.94	
15	16QAM	36	39	20.99	21.12	21.04	
15	16QAM	75	0	20.93	20.89	21.06	
15	64QAM	1	0	21.04	21.01	21.01	22
15	64QAM	1	37	21.08	20.99	21.01	
15	64QAM	1	74	20.83	20.87	20.83	
15	64QAM	36	0	19.88	20.09	20.11	21
15	64QAM	36	20	19.80	19.99	19.97	
15	64QAM	36	39	20.07	20.00	19.84	
15	64QAM	75	0	19.87	20.07	19.95	
15	256QAM	1	0	17.85	18.00	17.62	19
15	256QAM	1	37	17.61	17.77	17.69	
15	256QAM	1	74	17.73	17.67	17.63	
15	256QAM	36	0	16.66	16.81	16.76	18
15	256QAM	36	20	16.61	16.89	16.81	
15	256QAM	36	39	16.81	16.71	16.57	
15	256QAM	75	0	16.66	16.75	16.54	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.00	23.04	22.97	24
10	QPSK	1	25	23.00	22.91	22.99	
10	QPSK	1	49	22.87	23.00	22.89	
10	QPSK	25	0	22.02	22.02	22.13	23
10	QPSK	25	12	21.97	21.91	22.04	
10	QPSK	25	25	21.85	22.00	21.90	
10	QPSK	50	0	22.08	21.85	21.91	
10	16QAM	1	0	22.16	22.26	22.11	23
10	16QAM	1	25	22.04	22.23	22.09	
10	16QAM	1	49	22.14	22.16	21.97	
10	16QAM	25	0	21.16	21.17	21.03	22
10	16QAM	25	12	20.86	21.01	21.01	
10	16QAM	25	25	20.83	20.91	20.92	
10	16QAM	50	0	20.98	20.86	21.05	
10	64QAM	1	0	21.11	21.08	21.04	22
10	64QAM	1	25	21.07	21.01	20.89	
10	64QAM	1	49	21.01	21.04	20.97	
10	64QAM	25	0	19.96	20.19	20.10	21
10	64QAM	25	12	19.90	20.03	20.09	
10	64QAM	25	25	20.06	20.04	19.93	
10	64QAM	50	0	19.79	19.87	19.86	
10	256QAM	1	0	17.81	18.02	17.69	19
10	256QAM	1	25	17.69	17.74	17.78	
10	256QAM	1	49	17.84	17.65	17.66	
10	256QAM	25	0	16.59	16.88	16.82	18
10	256QAM	25	12	16.69	16.86	16.81	
10	256QAM	25	25	16.67	16.76	16.65	
10	256QAM	50	0	16.64	16.78	16.50	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.99	23.01	22.89	24
5	QPSK	1	12	22.98	22.99	22.88	
5	QPSK	1	24	22.95	22.94	22.85	
5	QPSK	12	0	22.15	22.16	22.09	23
5	QPSK	12	7	22.00	21.99	22.04	

1.4	QPSK	3	3	21.99	22.11	22.00	
1.4	QPSK	6	0	22.00	22.14	22.00	23
1.4	16QAM	1	0	22.25	22.23	22.11	23
1.4	16QAM	1	3	22.24	22.27	22.18	
1.4	16QAM	1	5	22.23	22.15	22.01	
1.4	16QAM	3	0	21.04	21.13	21.09	
1.4	16QAM	3	1	20.97	21.15	20.93	
1.4	16QAM	3	3	20.98	21.11	21.01	
1.4	16QAM	6	0	20.89	21.10	21.06	22
1.4	64QAM	1	0	21.21	21.20	21.09	22
1.4	64QAM	1	3	21.00	21.02	21.13	
1.4	64QAM	1	5	20.87	20.88	20.94	
1.4	64QAM	3	0	20.03	20.15	20.06	
1.4	64QAM	3	1	20.02	19.96	20.19	
1.4	64QAM	3	3	19.95	19.97	20.04	
1.4	64QAM	6	0	19.85	20.11	20.04	21
1.4	256QAM	1	0	17.84	18.03	17.71	19
1.4	256QAM	1	3	17.76	17.91	17.92	
1.4	256QAM	1	5	17.80	17.68	17.82	
1.4	256QAM	3	0	16.66	16.96	16.84	
1.4	256QAM	3	1	16.75	16.77	16.91	
1.4	256QAM	3	3	16.74	16.75	16.82	
1.4	256QAM	6	0	16.63	16.75	16.54	18

5	QPSK	12	13	21.91	22.10	21.82	
5	QPSK	25	0	21.90	22.02	21.87	
5	16QAM	1	0	22.23	22.16	22.22	23
5	16QAM	1	12	22.14	22.10	22.16	
5	16QAM	1	24	22.11	22.15	22.08	
5	16QAM	12	0	21.09	21.24	21.02	22
5	16QAM	12	7	20.97	21.10	21.09	
5	16QAM	12	13	20.88	20.95	21.01	
5	16QAM	25	0	20.94	21.11	21.04	
5	64QAM	1	0	21.16	21.16	21.07	22
5	64QAM	1	12	21.04	21.01	20.90	
5	64QAM	1	24	20.88	21.02	20.80	
5	64QAM	12	0	19.93	20.09	19.93	21
5	64QAM	12	7	19.89	19.99	20.13	
5	64QAM	12	13	19.95	19.93	19.90	
5	64QAM	25	0	19.82	19.94	20.01	
5	256QAM	1	0	17.84	17.91	17.77	19
5	256QAM	1	12	17.77	17.83	17.87	
5	256QAM	1	24	17.80	17.71	17.69	
5	256QAM	12	0	16.73	16.89	16.82	18
5	256QAM	12	7	16.67	16.79	16.78	
5	256QAM	12	13	16.75	16.78	16.59	
5	256QAM	25	0	16.65	16.75	16.59	

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	22.87	22.96	22.90	24
10	QPSK	1	25	22.75	22.89	22.71	
10	QPSK	1	49	22.84	22.75	22.72	
10	QPSK	25	0	21.90	21.97	21.88	23
10	QPSK	25	12	21.74	21.82	21.75	
10	QPSK	25	25	21.61	21.78	21.80	
10	QPSK	50	0	21.68	21.79	21.65	
10	16QAM	1	0	22.03	21.96	21.96	23
10	16QAM	1	25	22.02	22.03	22.01	
10	16QAM	1	49	21.89	21.84	21.86	
10	16QAM	25	0	20.75	20.85	20.83	22
10	16QAM	25	12	20.64	20.89	20.84	
10	16QAM	25	25	20.76	20.71	20.89	
10	16QAM	50	0	20.67	20.83	20.73	
10	64QAM	1	0	20.84	20.81	20.95	22
10	64QAM	1	25	20.74	20.90	20.68	
10	64QAM	1	49	20.80	20.71	20.69	
10	64QAM	25	0	19.81	19.83	19.89	21
10	64QAM	25	12	19.64	19.78	19.87	
10	64QAM	25	25	19.63	19.70	19.64	
10	64QAM	50	0	19.58	19.71	19.63	
10	256QAM	1	0	17.79	17.93	17.74	19
10	256QAM	1	25	17.65	17.89	17.81	
10	256QAM	1	49	17.76	17.69	17.68	
10	256QAM	25	0	16.72	16.91	16.80	18
10	256QAM	25	12	16.72	16.86	16.91	
10	256QAM	25	25	16.68	16.80	16.63	
10	256QAM	50	0	16.55	16.86	16.53	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.83	22.93	22.83	24
5	QPSK	1	12	22.62	22.76	22.71	
5	QPSK	1	24	22.71	22.71	22.60	
5	QPSK	12	0	21.83	21.95	21.73	23
5	QPSK	12	7	21.71	21.81	21.86	
5	QPSK	12	13	21.84	21.77	21.75	
5	QPSK	25	0	21.67	21.78	21.73	
5	16QAM	1	0	21.94	22.02	21.99	23
5	16QAM	1	12	22.02	22.07	21.88	
5	16QAM	1	24	21.97	21.89	21.77	
5	16QAM	12	0	20.92	20.87	20.92	22
5	16QAM	12	7	20.67	20.94	20.69	
5	16QAM	12	13	20.62	20.72	20.73	
5	16QAM	25	0	20.78	20.85	20.93	
5	64QAM	1	0	20.96	20.96	20.90	22
5	64QAM	1	12	20.80	20.82	20.86	
5	64QAM	1	24	20.62	20.80	20.60	
5	64QAM	12	0	19.90	19.78	19.90	21
5	64QAM	12	7	19.70	19.83	19.76	
5	64QAM	12	13	19.63	19.71	19.81	
5	64QAM	25	0	19.75	19.64	19.72	
5	256QAM	1	0	17.78	17.87	17.58	19
5	256QAM	1	12	17.59	17.84	17.83	
5	256QAM	1	24	17.76	17.61	17.62	
5	256QAM	12	0	16.70	16.91	16.73	18
5	256QAM	12	7	16.60	16.79	16.97	
5	256QAM	12	13	16.83	16.63	16.68	
5	256QAM	25	0	16.72	16.82	16.64	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.86	22.92	22.83	24
3	QPSK	1	8	22.75	22.66	22.80	
3	QPSK	1	14	22.64	22.76	22.64	
3	QPSK	8	0	21.78	21.80	21.73	23
3	QPSK	8	4	21.84	21.90	21.67	
3	QPSK	8	7	21.75	21.71	21.75	
3	QPSK	15	0	21.86	21.70	21.81	
3	16QAM	1	0	22.07	22.08	22.07	23
3	16QAM	1	8	21.87	22.06	21.84	
3	16QAM	1	14	21.83	21.96	21.97	
3	16QAM	8	0	20.90	21.03	21.01	22
3	16QAM	8	4	20.75	20.93	20.80	
3	16QAM	8	7	20.76	20.85	20.85	
3	16QAM	15	0	20.75	20.67	20.88	
3	64QAM	1	0	20.76	20.94	20.94	22
3	64QAM	1	8	20.78	20.98	20.78	
3	64QAM	1	14	20.82	20.74	20.72	
3	64QAM	8	0	19.78	19.95	19.86	21
3	64QAM	8	4	19.76	19.68	19.88	
3	64QAM	8	7	19.80	19.75	19.77	
3	64QAM	15	0	19.59	19.80	19.63	
3	256QAM	1	0	17.83	17.99	17.74	19
3	256QAM	1	8	17.65	17.87	17.96	
3	256QAM	1	14	17.82	17.58	17.69	
3	256QAM	8	0	16.61	16.82	16.69	18
3	256QAM	8	4	16.65	16.81	16.94	
3	256QAM	8	7	16.76	16.77	16.61	
3	256QAM	15	0	16.60	16.81	16.57	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.82	22.90	22.78	24
1.4	QPSK	1	3	22.80	22.72	22.82	
1.4	QPSK	1	5	22.67	22.78	22.76	
1.4	QPSK	3	0	21.75	21.92	21.83	
1.4	QPSK	3	1	21.64	21.76	21.76	

Band 13(700MHz Band) (dBm)
Part 27F

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					782		
10	QPSK	1	0		23.11		24
10	QPSK	1	25		23.02		
10	QPSK	1	49		22.96		
10	QPSK	25	0		22.26		23
10	QPSK	25	12		22.02		
10	QPSK	25	25		22.13		
10	QPSK	50	0		21.97		
10	16QAM	1	0		22.17		23
10	16QAM	1	25		22.09		
10	16QAM	1	49		22.10		
10	16QAM	25	0		21.17		22
10	16QAM	25	12		21.10		
10	16QAM	25	25		21.15		
10	16QAM	50	0		21.07		
10	64QAM	1	0		21.22		22
10	64QAM	1	25		20.99		
10	64QAM	1	49		20.95		
10	64QAM	25	0		20.15		21
10	64QAM	25	12		19.91		
10	64QAM	25	25		20.08		
10	64QAM	50	0		20.08		
10	256QAM	1	0		17.96		19
10	256QAM	1	25		17.90		
10	256QAM	1	49		17.74		
10	256QAM	25	0		16.84		18
10	256QAM	25	12		16.76		
10	256QAM	25	25		16.63		
10	256QAM	50	0		16.91		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.04	23.08	23.01	24
5	QPSK	1	12	22.86	22.92	23.00	
5	QPSK	1	24	23.02	23.00	23.04	
5	QPSK	12	0	22.15	22.19	22.10	23
5	QPSK	12	7	21.91	22.14	22.09	
5	QPSK	12	13	21.86	21.94	21.94	
5	QPSK	25	0	21.99	21.97	22.05	
5	16QAM	1	0	22.24	22.40	22.25	23
5	16QAM	1	12	22.23	22.10	22.06	
5	16QAM	1	24	22.23	22.10	22.25	
5	16QAM	12	0	21.16	21.06	21.04	22
5	16QAM	12	7	20.99	21.11	21.00	
5	16QAM	12	13	21.00	21.21	21.07	
5	16QAM	25	0	21.07	21.09	21.00	
5	64QAM	1	0	21.03	21.23	21.11	22
5	64QAM	1	12	20.94	21.20	21.00	
5	64QAM	1	24	21.02	21.05	21.01	
5	64QAM	12	0	19.96	20.21	19.97	21
5	64QAM	12	7	19.91	20.00	19.96	
5	64QAM	12	13	20.04	20.11	20.00	
5	64QAM	25	0	19.95	20.07	19.89	
5	256QAM	1	0	17.87	17.88	17.61	19
5	256QAM	1	12	17.72	17.74	17.80	
5	256QAM	1	24	17.67	17.56	17.52	
5	256QAM	12	0	16.62	16.85	16.86	18
5	256QAM	12	7	16.58	16.69	16.88	
5	256QAM	12	13	16.83	16.81	16.52	
5	256QAM	25	0	16.63	16.87	16.59	

1.4	QPSK	3	3	21.83	21.78	21.79	
1.4	QPSK	6	0	21.67	21.87	21.77	23
1.4	16QAM	1	0	21.85	21.98	22.09	
1.4	16QAM	1	3	21.96	22.04	22.00	
1.4	16QAM	1	5	21.92	21.88	21.95	23
1.4	16QAM	3	0	20.77	20.80	21.01	
1.4	16QAM	3	1	20.82	20.90	20.81	
1.4	16QAM	3	3	20.64	20.93	20.79	
1.4	16QAM	6	0	20.69	20.74	20.90	22
1.4	64QAM	1	0	20.73	20.92	20.92	
1.4	64QAM	1	3	20.86	20.74	20.74	
1.4	64QAM	1	5	20.73	20.63	20.62	22
1.4	64QAM	3	0	19.68	19.76	19.74	
1.4	64QAM	3	1	19.60	19.81	19.74	
1.4	64QAM	3	3	19.78	19.69	19.68	
1.4	64QAM	6	0	19.59	19.78	19.72	21
1.4	256QAM	1	0	17.93	17.99	17.66	
1.4	256QAM	1	3	17.63	17.80	17.82	
1.4	256QAM	1	5	17.76	17.72	17.69	19
1.4	256QAM	3	0	16.59	16.92	16.85	
1.4	256QAM	3	1	16.73	16.71	16.79	
1.4	256QAM	3	3	16.70	16.63	16.63	
1.4	256QAM	6	0	16.62	16.94	16.62	18

Band 14 (700MHz Band) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23330		
Frequency (MHz)					793		
10	QPSK	1	0		23.18		24
10	QPSK	1	25		23.10		
10	QPSK	1	49		22.98		
10	QPSK	25	0		22.12		23
10	QPSK	25	12		22.12		
10	QPSK	25	25		22.04		
10	QPSK	50	0		21.98		
10	16QAM	1	0		22.30		23
10	16QAM	1	25		22.20		
10	16QAM	1	49		22.11		
10	16QAM	25	0		21.15		22
10	16QAM	25	12		21.13		
10	16QAM	25	25		21.00		
10	16QAM	50	0		21.03		
10	64QAM	1	0		21.26		22
10	64QAM	1	25		21.21		
10	64QAM	1	49		21.06		
10	64QAM	25	0		20.24		21
10	64QAM	25	12		20.06		
10	64QAM	25	25		20.08		
10	64QAM	50	0		19.89		
10	256QAM	1	0		18.01		19
10	256QAM	1	25		17.84		
10	256QAM	1	49		17.69		
10	256QAM	25	0		16.93		18
10	256QAM	25	12		16.82		
10	256QAM	25	25		16.78		
10	256QAM	50	0		16.89		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	23.05	23.12	23.10	24
5	QPSK	1	12	22.99	23.10	23.05	
5	QPSK	1	24	22.89	22.91	22.86	
5	QPSK	12	0	22.00	22.22	22.11	23
5	QPSK	12	7	21.90	21.99	22.00	
5	QPSK	12	13	21.94	22.14	21.98	
5	QPSK	25	0	21.95	22.04	22.04	
5	16QAM	1	0	22.13	22.26	22.36	23
5	16QAM	1	12	22.18	22.15	22.08	
5	16QAM	1	24	22.13	22.27	22.07	
5	16QAM	12	0	21.06	21.06	21.18	22
5	16QAM	12	7	20.90	21.15	20.96	
5	16QAM	12	13	21.03	21.00	20.91	
5	16QAM	25	0	20.93	21.06	21.02	
5	64QAM	1	0	21.06	21.07	21.17	22
5	64QAM	1	12	21.07	21.20	20.92	
5	64QAM	1	24	21.01	20.97	20.84	
5	64QAM	12	0	20.13	20.14	20.01	21
5	64QAM	12	7	19.87	20.08	20.11	
5	64QAM	12	13	19.92	19.92	20.04	
5	64QAM	25	0	19.96	19.88	19.84	
5	256QAM	1	0	17.87	17.98	17.60	19
5	256QAM	1	12	17.72	17.77	17.82	
5	256QAM	1	24	17.85	17.74	17.68	
5	256QAM	12	0	16.56	16.91	16.68	18
5	256QAM	12	7	16.59	16.73	16.82	
5	256QAM	12	13	16.73	16.80	16.61	
5	256QAM	25	0	16.55	16.85	16.64	

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	22.80	22.87	22.78	24
10	QPSK	1	25	22.66	22.56	22.54	
10	QPSK	1	49	22.60	22.64	22.63	
10	QPSK	25	0	21.81	21.86	21.82	23
10	QPSK	25	12	21.70	21.58	21.72	
10	QPSK	25	25	21.60	21.68	21.60	
10	QPSK	50	0	21.62	21.53	21.61	
10	16QAM	1	0	21.96	22.01	21.88	23
10	16QAM	1	25	21.83	21.73	21.88	
10	16QAM	1	49	21.77	21.90	21.69	
10	16QAM	25	0	20.67	20.87	20.86	22
10	16QAM	25	12	20.63	20.70	20.57	
10	16QAM	25	25	20.60	20.79	20.58	
10	16QAM	50	0	20.58	20.71	20.58	
10	64QAM	1	0	20.74	20.81	20.73	22
10	64QAM	1	25	20.63	20.79	20.64	
10	64QAM	1	49	20.57	20.65	20.55	
10	64QAM	25	0	19.67	19.82	19.63	21
10	64QAM	25	12	19.51	19.54	19.63	
10	64QAM	25	25	19.70	19.54	19.50	
10	64QAM	50	0	19.57	19.51	19.44	
10	256QAM	1	0	17.85	17.84	17.62	19
10	256QAM	1	25	17.76	17.86	17.76	
10	256QAM	1	49	17.71	17.73	17.58	
10	256QAM	25	0	16.67	16.82	16.85	18
10	256QAM	25	12	16.61	16.84	16.84	
10	256QAM	25	25	16.80	16.66	16.65	
10	256QAM	50	0	16.68	16.87	16.63	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.76	22.83	22.70	24
5	QPSK	1	12	22.62	22.52	22.51	
5	QPSK	1	24	22.54	22.62	22.63	
5	QPSK	12	0	21.61	21.79	21.69	23
5	QPSK	12	7	21.51	21.71	21.56	
5	QPSK	12	13	21.57	21.67	21.61	
5	QPSK	25	0	21.53	21.58	21.55	
5	16QAM	1	0	21.95	21.82	21.80	23
5	16QAM	1	12	21.84	21.92	21.85	
5	16QAM	1	24	21.64	21.76	21.68	
5	16QAM	12	0	20.81	20.82	20.78	22
5	16QAM	12	7	20.53	20.74	20.72	
5	16QAM	12	13	20.68	20.59	20.56	
5	16QAM	25	0	20.56	20.57	20.60	
5	64QAM	1	0	20.64	20.69	20.65	22
5	64QAM	1	12	20.72	20.77	20.73	
5	64QAM	1	24	20.54	20.52	20.58	
5	64QAM	12	0	19.75	19.76	19.68	21
5	64QAM	12	7	19.44	19.58	19.65	
5	64QAM	12	13	19.68	19.76	19.65	
5	64QAM	25	0	19.55	19.59	19.57	
5	256QAM	1	0	17.88	17.89	17.72	19
5	256QAM	1	12	17.59	17.80	17.90	
5	256QAM	1	24	17.67	17.57	17.54	
5	256QAM	12	0	16.70	16.85	16.69	18
5	256QAM	12	7	16.63	16.77	16.82	
5	256QAM	12	13	16.66	16.68	16.62	
5	256QAM	25	0	16.63	16.78	16.56	

Band 25 (1900MHz Band) (dBm) Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	22.91	22.95	22.87	24
20	QPSK	1	49	22.85	22.80	22.72	
20	QPSK	1	99	22.73	22.68	22.77	
20	QPSK	50	0	22.01	22.09	21.96	23
20	QPSK	50	24	21.90	21.95	21.94	
20	QPSK	50	50	21.91	21.85	21.80	
20	QPSK	100	0	21.81	21.99	21.94	
20	16QAM	1	0	21.98	22.03	22.15	23
20	16QAM	1	49	21.96	21.95	22.10	
20	16QAM	1	99	21.98	22.10	21.92	
20	16QAM	50	0	21.03	20.97	20.95	22
20	16QAM	50	24	20.95	20.99	20.91	
20	16QAM	50	50	20.72	20.91	20.75	
20	16QAM	100	0	20.94	20.91	20.99	
20	64QAM	1	0	20.96	20.95	20.95	22
20	64QAM	1	49	20.91	20.82	20.91	
20	64QAM	1	99	20.88	20.95	20.91	
20	64QAM	50	0	19.80	19.98	19.83	21
20	64QAM	50	24	19.72	19.69	19.89	
20	64QAM	50	50	19.88	19.76	19.85	
20	64QAM	100	0	19.81	19.73	19.88	
20	256QAM	1	0	17.83	18.03	17.79	19
20	256QAM	1	49	17.73	17.89	17.94	
20	256QAM	1	99	17.75	17.67	17.68	
20	256QAM	50	0	16.65	16.94	16.78	18
20	256QAM	50	24	16.66	16.81	16.86	
20	256QAM	50	50	16.71	16.70	16.73	
20	256QAM	100	0	16.67	16.78	16.66	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	22.88	22.91	22.86	24
15	QPSK	1	37	22.83	22.87	22.74	
15	QPSK	1	74	22.84	22.68	22.68	
15	QPSK	36	0	21.85	22.03	22.01	23
15	QPSK	36	20	21.85	21.89	21.77	
15	QPSK	36	39	21.89	21.92	21.75	
15	QPSK	75	0	21.89	21.80	21.74	
15	16QAM	1	0	22.03	22.09	22.05	23
15	16QAM	1	37	21.94	22.04	21.88	
15	16QAM	1	74	22.02	21.93	21.85	
15	16QAM	36	0	20.99	20.94	21.01	22
15	16QAM	36	20	20.90	21.05	20.98	
15	16QAM	36	39	20.70	21.04	20.83	
15	16QAM	75	0	20.74	20.82	21.03	
15	64QAM	1	0	20.99	20.88	20.88	22
15	64QAM	1	37	20.89	21.06	20.82	
15	64QAM	1	74	20.88	20.78	20.90	
15	64QAM	36	0	19.81	19.99	19.93	21
15	64QAM	36	20	19.74	19.75	19.88	
15	64QAM	36	39	19.75	20.00	19.72	
15	64QAM	75	0	19.71	19.96	19.90	
15	256QAM	1	0	17.76	17.88	17.66	19
15	256QAM	1	37	17.59	17.85	17.84	
15	256QAM	1	74	17.77	17.61	17.67	
15	256QAM	36	0	16.68	16.90	16.69	18
15	256QAM	36	20	16.66	16.82	16.77	
15	256QAM	36	39	16.69	16.80	16.59	
15	256QAM	75	0	16.62	16.88	16.57	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	22.88	22.90	22.85	24
10	QPSK	1	25	22.79	22.87	22.72	
10	QPSK	1	49	22.83	22.85	22.80	
10	QPSK	25	0	21.94	22.08	21.85	23
10	QPSK	25	12	21.76	21.96	21.98	
10	QPSK	25	25	21.76	21.79	21.81	
10	QPSK	50	0	21.80	21.90	21.84	
10	16QAM	1	0	22.16	22.18	22.08	23
10	16QAM	1	25	22.15	22.00	21.97	
10	16QAM	1	49	22.04	22.07	21.90	
10	16QAM	25	0	20.84	21.06	21.05	22
10	16QAM	25	12	20.74	20.96	20.81	
10	16QAM	25	25	20.90	20.99	20.76	
10	16QAM	50	0	20.91	21.00	21.01	
10	64QAM	1	0	20.93	20.94	20.88	22
10	64QAM	1	25	20.75	21.03	20.92	
10	64QAM	1	49	20.78	20.78	20.77	
10	64QAM	25	0	19.81	19.93	19.87	21
10	64QAM	25	12	19.77	19.90	19.89	
10	64QAM	25	25	19.89	19.85	19.87	
10	64QAM	50	0	19.76	19.89	19.67	
10	256QAM	1	0	17.92	17.84	17.73	19
10	256QAM	1	25	17.63	17.81	17.89	
10	256QAM	1	49	17.75	17.59	17.57	
10	256QAM	25	0	16.63	16.89	16.80	18
10	256QAM	25	12	16.67	16.86	16.82	
10	256QAM	25	25	16.72	16.76	16.77	
10	256QAM	50	0	16.74	16.79	16.68	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	22.84	22.92	22.85	24
5	QPSK	1	12	22.80	22.89	22.68	
5	QPSK	1	24	22.74	22.78	22.84	
5	QPSK	12	0	22.04	22.08	22.03	23
5	QPSK	12	7	21.88	22.03	21.97	

Band 26 for FCC (dBm) (only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.10	23.12	23.05	24
15	QPSK	1	37	23.00	23.04	22.97	
15	QPSK	1	74	22.98	22.96	22.93	
15	QPSK	36	0	22.15	22.24	22.12	23
15	QPSK	36	20	21.94	21.98	22.11	
15	QPSK	36	39	22.06	22.04	21.97	
15	QPSK	75	0	22.03	22.04	21.91	
15	16QAM	1	0	22.34	22.25	22.12	23
15	16QAM	1	37	22.18	22.26	22.22	
15	16QAM	1	74	22.05	22.17	22.01	
15	16QAM	36	0	20.96	21.07	21.26	22
15	16QAM	36	20	21.08	21.14	21.11	
15	16QAM	36	39	20.95	21.00	21.07	
15	16QAM	75	0	20.91	21.11	21.10	
15	64QAM	1	0	21.04	21.20	21.15	22
15	64QAM	1	37	21.03	20.98	20.94	
15	64QAM	1	74	20.92	20.97	20.92	
15	64QAM	36	0	19.96	20.21	20.09	21
15	64QAM	36	20	20.04	20.05	19.97	
15	64QAM	36	39	19.99	20.09	20.13	
15	64QAM	75	0	19.95	19.91	19.97	
15	256QAM	1	0	17.85	17.89	17.65	19
15	256QAM	1	37	17.71	17.74	17.76	
15	256QAM	1	74	17.72	17.58	17.68	
15	256QAM	36	0	16.67	16.92	16.85	18
15	256QAM	36	20	16.75	16.82	16.88	
15	256QAM	36	39	16.69	16.66	16.79	
15	256QAM	75	0	16.62	16.84	16.70	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.07	23.09	23.01	24
10	QPSK	1	25	23.00	22.97	22.94	
10	QPSK	1	49	22.98	23.03	22.79	
10	QPSK	25	0	22.04	22.09	22.02	23
10	QPSK	25	12	21.94	22.07	21.92	
10	QPSK	25	25	22.03	21.94	21.99	
10	QPSK	50	0	21.97	22.15	21.96	
10	16QAM	1	0	22.15	22.31	22.11	23
10	16QAM	1	25	22.27	22.22	22.18	
10	16QAM	1	49	22.23	22.20	22.08	
10	16QAM	25	0	21.09	21.18	21.24	22
10	16QAM	25	12	21.07	21.19	21.07	
10	16QAM	25	25	20.95	21.09	21.10	
10	16QAM	50	0	21.04	20.93	21.10	
10	64QAM	1	0	21.03	21.19	21.20	22
10	64QAM	1	25	20.99	21.10	21.05	
10	64QAM	1	49	21.03	20.95	20.96	
10	64QAM	25	0	19.99	20.13	20.13	21
10	64QAM	25	12	20.03	19.91	20.04	
10	64QAM	25	25	19.94	20.14	20.10	
10	64QAM	50	0	19.83	19.90	20.04	
10	256QAM	1	0	17.78	17.84	17.62	19
10	256QAM	1	25	17.59	17.77	17.79	
10	256QAM	1	49	17.69	17.57	17.68	
10	256QAM	25	0	16.65	16.95	16.72	18
10	256QAM	25	12	16.64	16.86	16.85	
10	256QAM	25	25	16.73	16.74	16.68	
10	256QAM	50	0	16.72	16.83	16.46	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.96	23.08	23.04	24
5	QPSK	1	12	22.95	23.03	22.89	
5	QPSK	1	24	23.00	22.87	22.80	
5	QPSK	12	0	22.07	22.11	22.07	23
5	QPSK	12	7	21.96	22.09	22.15	
5	QPSK	12	13	22.06	22.04	21.97	
5	QPSK	25	0	21.89	21.93	22.04	
5	16QAM	1	0	22.27	22.35	22.24	23
5	16QAM	1	12	22.14	22.12	22.13	
5	16QAM	1	24	22.09	22.13	22.02	
5	16QAM	12	0	21.16	21.23	21.19	22
5	16QAM	12	7	21.11	21.00	20.97	
5	16QAM	12	13	21.07	20.97	20.93	
5	16QAM	25	0	21.04	21.13	21.10	
5	64QAM	1	0	21.03	21.18	21.19	22
5	64QAM	1	12	20.94	21.10	21.14	
5	64QAM	1	24	20.88	20.90	21.07	
5	64QAM	12	0	20.02	20.14	19.97	21
5	64QAM	12	7	19.96	19.98	20.18	
5	64QAM	12	13	20.06	20.01	20.03	
5	64QAM	25	0	19.82	19.93	20.05	
5	256QAM	1	0	17.87	17.91	17.58	19
5	256QAM	1	12	17.77	17.87	17.85	
5	256QAM	1	24	17.73	17.59	17.64	
5	256QAM	12	0	16.59	17.00	16.70	18
5	256QAM	12	7	16.69	16.76	16.83	
5	256QAM	12	13	16.75	16.78	16.71	
5	256QAM	25	0	16.64	16.91	16.58	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.00	23.06	22.99	24
3	QPSK	1	8	23.05	23.01	22.86	
3	QPSK	1	14	22.95	23.00	22.83	
3	QPSK	8	0	22.15	22.18	22.11	23
3	QPSK	8	4	22.13	22.14	21.98	

5	QPSK	12	13	21.82	21.96	21.79	
5	QPSK	25	0	21.88	21.77	21.83	
5	16QAM	1	0	22.04	22.06	21.98	23
5	16QAM	1	12	21.90	22.03	22.08	
5	16QAM	1	24	21.85	21.98	21.90	
5	16QAM	12	0	20.87	21.05	21.10	22
5	16QAM	12	7	20.84	21.08	20.85	
5	16QAM	12	13	20.91	20.99	20.86	
5	16QAM	25	0	20.79	20.80	20.79	
5	64QAM	1	0	20.93	21.05	20.96	
5	64QAM	1	12	20.87	20.88	20.85	22
5	64QAM	1	24	20.83	20.75	20.72	
5	64QAM	12	0	19.96	20.02	20.02	
5	64QAM	12	7	19.85	19.81	19.91	21
5	64QAM	12	13	19.95	19.88	19.73	
5	64QAM	25	0	19.67	19.71	19.88	
5	256QAM	1	0	17.92	17.84	17.75	
5	256QAM	1	12	17.74	17.79	17.86	19
5	256QAM	1	24	17.74	17.74	17.69	
5	256QAM	12	0	16.66	16.95	16.79	
5	256QAM	12	7	16.76	16.87	16.93	18
5	256QAM	12	13	16.67	16.73	16.73	
5	256QAM	25	0	16.71	16.74	16.55	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	22.86	22.89	22.80	
3	QPSK	1	8	22.77	22.87	22.71	24
3	QPSK	1	14	22.77	22.83	22.80	
3	QPSK	8	0	21.84	21.90	21.95	
3	QPSK	8	4	21.96	21.88	21.98	23
3	QPSK	8	7	21.80	21.93	21.69	
3	QPSK	15	0	21.78	21.95	21.70	
3	16QAM	1	0	21.98	22.06	21.97	
3	16QAM	1	8	21.94	22.07	22.03	23
3	16QAM	1	14	21.83	21.93	21.89	
3	16QAM	8	0	21.05	21.06	20.90	
3	16QAM	8	4	20.73	20.85	21.02	22
3	16QAM	8	7	20.77	20.94	20.96	
3	16QAM	15	0	20.83	20.81	20.84	
3	64QAM	1	0	20.87	21.06	20.95	
3	64QAM	1	8	20.83	20.91	20.93	22
3	64QAM	1	14	20.89	20.87	20.71	
3	64QAM	8	0	19.86	19.99	19.98	
3	64QAM	8	4	19.72	19.69	19.80	21
3	64QAM	8	7	19.85	19.89	19.76	
3	64QAM	15	0	19.79	19.80	19.69	
3	256QAM	1	0	17.94	18.02	17.62	
3	256QAM	1	8	17.73	17.94	17.92	19
3	256QAM	1	14	17.84	17.73	17.71	
3	256QAM	8	0	16.73	16.94	16.68	
3	256QAM	8	4	16.74	16.79	16.86	18
3	256QAM	8	7	16.81	16.67	16.75	
3	256QAM	15	0	16.71	16.91	16.63	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	22.82	22.87	22.84	
1.4	QPSK	1	3	22.71	22.70	22.78	
1.4	QPSK	1	5	22.70	22.65	22.76	24
1.4	QPSK	3	0	21.97	21.92	21.92	
1.4	QPSK	3	1	21.84	22.02	22.00	
1.4	QPSK	3	3	21.88	21.85	21.69	
1.4	QPSK	6	0	21.87	21.95	21.80	23
1.4	16QAM	1	0	21.92	22.02	21.93	
1.4	16QAM	1	3	21.96	21.94	21.94	
1.4	16QAM	1	5	21.98	22.14	21.99	22
1.4	16QAM	3	0	21.04	21.05	20.94	
1.4	16QAM	3	1	20.86	21.02	20.86	
1.4	16QAM	3	3	20.70	20.91	20.97	
1.4	16QAM	6	0	20.83	20.76	20.81	21
1.4	64QAM	1	0	20.88	20.97	20.93	
1.4	64QAM	1	3	20.90	21.05	20.88	
1.4	64QAM	1	5	20.88	20.86	20.81	22
1.4	64QAM	3	0	19.99	20.02	19.82	
1.4	64QAM	3	1	19.76	19.91	20.04	
1.4	64QAM	3	3	19.80	19.81	19.97	
1.4	64QAM	6	0	19.78	19.79	19.89	21
1.4	256QAM	1	0	17.74	17.97	17.69	
1.4	256QAM	1	3	17.62	17.84	17.96	
1.4	256QAM	1	5	17.72	17.59	17.60	19
1.4	256QAM	3	0	16.58	16.72	16.76	
1.4	256QAM	3	1	16.61	16.71	16.93	
1.4	256QAM	3	3	16.73	16.80	16.71	
1.4	256QAM	6	0	16.60	16.76	16.53	18

3	QPSK	8	7	22.09	22.04	21.97	
3	QPSK	15	0	21.93	22.07	21.95	
3	16QAM	1	0	22.22	22.37	22.32	
3	16QAM	1	8	22.19	22.25	22.14	23
3	16QAM	1	14	22.01	22.09	22.00	
3	16QAM	8	0	21.17	21.22	21.02	
3	16QAM	8	4	20.95	21.10	21.09	22
3	16QAM	8	7	21.07	21.13	20.96	
3	16QAM	15	0	20.95	20.98	20.95	
3	64QAM	1	0	21.21	21.24	21.18	
3	64QAM	1	8	21.06	21.12	21.07	22
3	64QAM	1	14	20.94	21.04	20.94	
3	64QAM	8	0	20.05	20.08	19.98	
3	64QAM	8	4	20.02	19.93	19.96	21
3	64QAM	8	7	19.89	20.04	20.05	
3	64QAM	15	0	19.95	20.05	19.90	
3	256QAM	1	0	17.84	17.86	17.74	
3	256QAM	1	8	17.74	17.79	17.87	19
3	256QAM	1	14	17.79	17.64	17.63	
3	256QAM	8	0	16.76	16.98	16.69	
3	256QAM	8	4	16.66	16.82	16.96	18
3	256QAM	8	7	16.73	16.70	16.60	
3	256QAM	15	0	16.62	16.76	16.55	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.98	23.07	23.01	
1.4	QPSK	1	3	22.88	22.95	22.99	
1.4	QPSK	1	5	23.04	22.90	22.97	24
1.4	QPSK	3	0	22.10	22.08	22.09	
1.4	QPSK	3	1	21.91	22.13	22.06	
1.4	QPSK	3	3	22.07	21.99	21.95	
1.4	QPSK	6	0	22.09	21.95	22.06	23
1.4	16QAM	1	0	22.25	22.24	22.27	
1.4	16QAM	1	3	22.13	22.25	22.17	
1.4	16QAM	1	5	22.15	22.17	22.00	23
1.4	16QAM	3	0	21.04	21.07	21.11	
1.4	16QAM	3	1	21.05	21.03	21.10	
1.4	16QAM	3	3	21.00	21.08	20.91	
1.4	16QAM	6	0	21.10	20.93	21.19	22
1.4	64QAM	1	0	20.99	21.14	20.98	
1.4	64QAM	1	3	21.03	21.01	21.10	
1.4	64QAM	1	5	20.88	20.91	20.89	22
1.4	64QAM	3	0	19.91	20.01	20.18	
1.4	64QAM	3	1	19.87	19.87	20.04	
1.4	64QAM	3	3	19.93	19.92	20.02	
1.4	64QAM	6	0	20.04	19.90	19.94	21
1.4	256QAM	1	0	17.85	18.01	17.69	
1.4	256QAM	1	3	17.58	17.75	17.96	
1.4	256QAM	1	5	17.77	17.70	17.64	19
1.4	256QAM	3	0	16.63	16.83	16.85	
1.4	256QAM	3	1	16.58	16.71	16.74	
1.4	256QAM	3	3	16.70	16.72	16.59	
1.4	256QAM	6	0	16.59	16.82	16.69	18

Band 30 (dBm)

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		22.73		24
10	QPSK	1	25		22.72		
10	QPSK	1	49		22.55		
10	QPSK	25	0		21.86		23
10	QPSK	25	12		21.71		
10	QPSK	25	25		21.76		
10	QPSK	50	0		21.72		
10	16QAM	1	0		22.01		23
10	16QAM	1	25		21.85		
10	16QAM	1	49		21.87		
10	16QAM	25	0		20.81		22
10	16QAM	25	12		20.85		
10	16QAM	25	25		20.74		
10	16QAM	50	0		20.78		
10	64QAM	1	0		20.88		22
10	64QAM	1	25		20.67		
10	64QAM	1	49		20.67		
10	64QAM	25	0		19.86		21
10	64QAM	25	12		19.65		
10	64QAM	25	25		19.77		
10	64QAM	50	0		19.59		
10	256QAM	1	0		17.73		19
10	256QAM	1	25		17.50		
10	256QAM	1	49		17.29		
10	256QAM	25	0		16.73		18
10	256QAM	25	12		16.48		
10	256QAM	25	25		16.52		
10	256QAM	50	0		16.58		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.56	22.70	22.62	24
5	QPSK	1	12	22.63	22.64	22.59	
5	QPSK	1	24	22.62	22.58	22.63	
5	QPSK	12	0	21.78	21.85	21.85	23
5	QPSK	12	7	21.66	21.86	21.76	
5	QPSK	12	13	21.57	21.83	21.60	
5	QPSK	25	0	21.60	21.65	21.54	
5	16QAM	1	0	21.79	21.89	21.90	23
5	16QAM	1	12	21.84	21.76	21.84	
5	16QAM	1	24	21.76	21.83	21.74	
5	16QAM	12	0	20.66	20.72	20.84	22
5	16QAM	12	7	20.57	20.75	20.74	
5	16QAM	12	13	20.52	20.71	20.78	
5	16QAM	25	0	20.66	20.69	20.67	
5	64QAM	1	0	20.88	20.91	20.81	22
5	64QAM	1	12	20.78	20.76	20.64	
5	64QAM	1	24	20.57	20.58	20.71	
5	64QAM	12	0	19.58	19.80	19.72	21
5	64QAM	12	7	19.72	19.70	19.81	
5	64QAM	12	13	19.52	19.78	19.66	
5	64QAM	25	0	19.65	19.62	19.70	
5	256QAM	1	0	17.58	17.71	17.36	19
5	256QAM	1	12	17.34	17.55	17.53	
5	256QAM	1	24	17.43	17.37	17.39	
5	256QAM	12	0	16.34	16.63	16.48	18
5	256QAM	12	7	16.44	16.54	16.55	
5	256QAM	12	13	16.57	16.38	16.34	
5	256QAM	25	0	16.39	16.55	16.32	

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	22.87	22.98	22.90	24
20	QPSK	1	49	22.69	22.84	22.80	
20	QPSK	1	99	22.72	22.79	22.71	
20	QPSK	50	0	21.95	21.99	21.87	23
20	QPSK	50	24	21.80	21.92	21.93	
20	QPSK	50	50	21.81	21.88	21.63	
20	QPSK	100	0	21.83	21.91	21.85	
20	16QAM	1	0	22.06	22.03	21.97	23
20	16QAM	1	49	22.11	22.06	22.17	
20	16QAM	1	99	22.07	22.24	21.97	
20	16QAM	50	0	20.95	21.05	21.03	22
20	16QAM	50	24	20.87	20.99	20.83	
20	16QAM	50	50	20.94	20.91	20.84	
20	16QAM	100	0	20.70	20.92	20.93	
20	64QAM	1	0	20.91	21.09	20.72	22
20	64QAM	1	49	20.88	20.91	20.74	
20	64QAM	1	99	21.10	20.86	20.83	
20	64QAM	50	0	19.91	20.05	19.80	21
20	64QAM	50	24	19.83	19.83	19.99	
20	64QAM	50	50	20.01	19.79	19.82	
20	64QAM	100	0	19.92	19.93	19.66	
20	256QAM	1	0	17.79	17.94	17.62	19
20	256QAM	1	49	17.74	17.80	17.78	
20	256QAM	1	99	17.67	17.70	17.67	
20	256QAM	50	0	16.73	16.98	16.74	18
20	256QAM	50	24	16.69	16.70	16.77	
20	256QAM	50	50	16.74	16.78	16.48	
20	256QAM	100	0	16.74	16.76	16.61	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.84	22.95	22.92	24
15	QPSK	1	37	22.72	22.77	22.61	
15	QPSK	1	74	22.79	22.75	22.78	
15	QPSK	36	0	21.91	22.03	21.81	23
15	QPSK	36	20	21.81	21.98	21.78	
15	QPSK	36	39	21.79	21.94	21.66	
15	QPSK	75	0	21.82	21.86	21.91	
15	16QAM	1	0	22.11	22.12	22.11	23
15	16QAM	1	37	22.12	22.04	22.16	
15	16QAM	1	74	21.93	22.08	21.93	
15	16QAM	36	0	20.99	21.07	21.01	22
15	16QAM	36	20	20.77	20.98	20.94	
15	16QAM	36	39	20.94	21.01	20.77	
15	16QAM	75	0	20.77	20.88	20.93	
15	64QAM	1	0	20.85	21.08	20.89	22
15	64QAM	1	37	20.82	20.97	20.74	
15	64QAM	1	74	20.93	20.96	20.81	
15	64QAM	36	0	19.89	20.05	19.77	21
15	64QAM	36	20	19.91	19.76	19.93	
15	64QAM	36	39	19.95	19.89	19.74	
15	64QAM	75	0	19.86	20.02	19.69	
15	256QAM	1	0	17.81	17.94	17.62	19
15	256QAM	1	37	17.59	17.93	17.79	
15	256QAM	1	74	17.80	17.75	17.68	
15	256QAM	36	0	16.63	16.85	16.81	18
15	256QAM	36	20	16.68	16.89	16.85	
15	256QAM	36	39	16.69	16.68	16.59	
15	256QAM	75	0	16.62	16.78	16.65	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.87	22.93	22.77	24
10	QPSK	1	25	22.76	22.90	22.63	
10	QPSK	1	49	22.66	22.86	22.61	
10	QPSK	25	0	22.02	22.04	21.81	23
10	QPSK	25	12	21.90	22.11	21.87	
10	QPSK	25	25	21.83	21.95	21.79	
10	QPSK	50	0	21.78	21.84	21.80	
10	16QAM	1	0	22.03	22.04	22.11	23
10	16QAM	1	25	22.13	22.18	22.13	
10	16QAM	1	49	22.07	22.09	21.99	
10	16QAM	25	0	21.02	21.04	21.02	22
10	16QAM	25	12	20.81	21.07	20.87	
10	16QAM	25	25	20.94	20.91	20.81	
10	16QAM	50	0	20.81	20.87	20.94	
10	64QAM	1	0	20.95	20.96	20.83	22
10	64QAM	1	25	20.80	20.84	20.84	
10	64QAM	1	49	21.09	20.84	20.85	
10	64QAM	25	0	19.80	20.10	19.75	21
10	64QAM	25	12	20.03	19.87	19.98	
10	64QAM	25	25	19.91	19.79	19.73	
10	64QAM	50	0	19.80	19.93	19.68	
10	256QAM	1	0	17.78	18.01	17.69	19
10	256QAM	1	25	17.68	17.94	17.78	
10	256QAM	1	49	17.85	17.57	17.59	
10	256QAM	25	0	16.71	16.92	16.75	18
10	256QAM	25	12	16.68	16.82	16.95	
10	256QAM	25	25	16.79	16.71	16.57	
10	256QAM	50	0	16.62	16.79	16.64	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.89	22.94	22.81	24
5	QPSK	1	12	22.75	22.88	22.74	
5	QPSK	1	24	22.64	22.78	22.63	
5	QPSK	12	0	22.03	21.98	21.96	23
5	QPSK	12	7	21.93	22.04	21.92	

5	QPSK	12	13	21.81	22.05	21.76	
5	QPSK	25	0	21.87	21.82	21.85	
5	16QAM	1	0	22.09	22.06	22.12	
5	16QAM	1	12	22.05	22.14	22.15	23
5	16QAM	1	24	21.98	22.14	21.93	
5	16QAM	12	0	21.05	21.16	21.04	
5	16QAM	12	7	20.86	21.02	21.02	22
5	16QAM	12	13	20.86	20.89	20.87	
5	16QAM	25	0	20.85	20.72	20.83	
5	64QAM	1	0	20.94	21.01	20.88	
5	64QAM	1	12	20.75	20.87	20.74	22
5	64QAM	1	24	20.99	20.79	20.75	
5	64QAM	12	0	19.74	19.95	19.79	
5	64QAM	12	7	19.84	19.77	19.85	21
5	64QAM	12	13	19.86	19.85	19.71	
5	64QAM	25	0	19.88	19.91	19.72	
5	256QAM	1	0	17.78	17.94	17.59	
5	256QAM	1	12	17.60	17.90	17.88	19
5	256QAM	1	24	17.68	17.73	17.61	
5	256QAM	12	0	16.74	16.82	16.85	
5	256QAM	12	7	16.72	16.70	16.80	18
5	256QAM	12	13	16.73	16.65	16.63	
5	256QAM	25	0	16.59	16.74	16.66	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.75	22.91	22.76	
3	QPSK	1	8	22.80	22.86	22.63	24
3	QPSK	1	14	22.81	22.72	22.75	
3	QPSK	8	0	21.98	22.01	21.89	
3	QPSK	8	4	21.75	22.02	21.98	23
3	QPSK	8	7	21.77	21.91	21.74	
3	QPSK	15	0	21.74	21.76	21.80	
3	16QAM	1	0	22.03	22.05	22.12	
3	16QAM	1	8	21.97	22.02	22.12	23
3	16QAM	1	14	22.08	22.14	21.86	
3	16QAM	8	0	21.11	21.00	21.07	
3	16QAM	8	4	20.90	20.97	20.90	22
3	16QAM	8	7	20.87	21.00	20.87	
3	16QAM	15	0	20.73	20.88	20.93	
3	64QAM	1	0	20.79	21.02	20.77	
3	64QAM	1	8	20.74	20.91	20.91	22
3	64QAM	1	14	21.05	20.81	20.87	
3	64QAM	8	0	19.79	20.04	19.78	
3	64QAM	8	4	19.95	19.78	19.89	21
3	64QAM	8	7	19.90	19.96	19.78	
3	64QAM	15	0	19.89	19.92	19.69	
3	256QAM	1	0	17.82	17.84	17.76	
3	256QAM	1	8	17.64	17.76	17.84	19
3	256QAM	1	14	17.75	17.69	17.60	
3	256QAM	8	0	16.69	16.92	16.76	
3	256QAM	8	4	16.74	16.73	16.84	18
3	256QAM	8	7	16.74	16.71	16.81	
3	256QAM	15	0	16.62	16.74	16.69	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.84	22.92	22.86	
1.4	QPSK	1	3	22.88	22.79	22.72	
1.4	QPSK	1	5	22.64	22.76	22.70	24
1.4	QPSK	3	0	21.91	22.04	21.97	
1.4	QPSK	3	1	21.86	21.96	21.82	
1.4	QPSK	3	3	21.86	21.92	21.70	
1.4	QPSK	6	0	21.82	21.79	21.94	23
1.4	16QAM	1	0	22.06	22.06	21.99	
1.4	16QAM	1	3	22.14	22.18	22.08	
1.4	16QAM	1	5	21.93	22.13	21.85	23
1.4	16QAM	3	0	20.98	21.03	20.91	
1.4	16QAM	3	1	20.74	20.95	20.94	
1.4	16QAM	3	3	20.83	21.04	20.88	
1.4	16QAM	6	0	20.80	20.78	20.76	22
1.4	64QAM	1	0	20.86	21.06	20.80	
1.4	64QAM	1	3	20.89	20.79	20.74	
1.4	64QAM	1	5	21.04	20.97	20.79	22
1.4	64QAM	3	0	19.75	19.93	19.73	
1.4	64QAM	3	1	19.92	19.88	19.96	
1.4	64QAM	3	3	19.88	19.79	19.84	
1.4	64QAM	6	0	19.98	20.00	19.82	21
1.4	256QAM	1	0	17.82	17.86	17.78	
1.4	256QAM	1	3	17.70	17.89	17.89	
1.4	256QAM	1	5	17.74	17.70	17.68	19
1.4	256QAM	3	0	16.70	16.87	16.86	
1.4	256QAM	3	1	16.68	16.82	16.96	
1.4	256QAM	3	3	16.65	16.63	16.60	
1.4	256QAM	6	0	16.69	16.87	16.73	18

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	22.78	22.86	22.77	24
20	QPSK	1	49	22.76	22.83	22.55	
20	QPSK	1	99	22.71	22.74	22.54	
20	QPSK	50	0	21.87	21.92	21.90	23
20	QPSK	50	24	21.82	21.90	21.82	
20	QPSK	50	50	21.79	21.84	21.66	
20	QPSK	100	0	21.80	21.77	21.87	
20	16QAM	1	0	21.93	22.12	21.88	23
20	16QAM	1	49	21.91	22.15	22.08	
20	16QAM	1	99	21.92	22.15	21.86	
20	16QAM	50	0	20.92	21.03	21.01	22
20	16QAM	50	24	20.82	20.92	20.80	
20	16QAM	50	50	20.80	20.95	20.71	
20	16QAM	100	0	20.74	20.74	20.74	
20	64QAM	1	0	20.78	21.01	20.73	22
20	64QAM	1	49	20.85	20.85	20.80	
20	64QAM	1	99	20.90	20.84	20.71	
20	64QAM	50	0	19.77	20.11	19.77	21
20	64QAM	50	24	19.81	19.68	19.82	
20	64QAM	50	50	19.88	19.80	19.82	
20	64QAM	100	0	19.87	20.01	19.70	
20	256QAM	1	0	17.78	17.93	17.73	19
20	256QAM	1	49	17.73	17.86	17.76	
20	256QAM	1	99	17.83	17.62	17.70	
20	256QAM	50	0	16.70	16.91	16.80	18
20	256QAM	50	24	16.57	16.81	16.92	
20	256QAM	50	50	16.80	16.66	16.56	
20	256QAM	100	0	16.61	16.77	16.68	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.82	22.84	22.71	24
15	QPSK	1	37	22.66	22.70	22.60	
15	QPSK	1	74	22.62	22.66	22.56	
15	QPSK	36	0	22.01	21.86	21.73	23
15	QPSK	36	20	21.70	21.92	21.77	
15	QPSK	36	39	21.87	21.88	21.70	
15	QPSK	75	0	21.73	21.75	21.74	
15	16QAM	1	0	21.95	22.09	22.01	23
15	16QAM	1	37	22.09	22.04	21.96	
15	16QAM	1	74	22.01	22.15	21.82	
15	16QAM	36	0	21.02	21.05	20.87	22
15	16QAM	36	20	20.77	20.82	20.87	
15	16QAM	36	39	20.76	20.96	20.82	
15	16QAM	75	0	20.76	20.82	20.78	
15	64QAM	1	0	20.73	21.04	20.76	22
15	64QAM	1	37	20.81	20.79	20.72	
15	64QAM	1	74	20.89	20.74	20.68	
15	64QAM	36	0	19.80	20.13	19.81	21
15	64QAM	36	20	19.84	19.88	19.97	
15	64QAM	36	39	19.96	19.90	19.78	
15	64QAM	75	0	19.80	19.96	19.60	
15	256QAM	1	0	17.92	17.86	17.75	19
15	256QAM	1	37	17.66	17.91	17.94	
15	256QAM	1	74	17.75	17.70	17.65	
15	256QAM	36	0	16.64	17.00	16.77	18
15	256QAM	36	20	16.75	16.76	16.92	
15	256QAM	36	39	16.68	16.68	16.59	
15	256QAM	75	0	16.60	16.79	16.64	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	22.76	22.80	22.79	24
10	QPSK	1	25	22.70	22.79	22.61	
10	QPSK	1	49	22.75	22.74	22.64	
10	QPSK	25	0	22.00	21.90	21.76	23
10	QPSK	25	12	21.81	21.93	21.86	
10	QPSK	25	25	21.76	21.95	21.73	
10	QPSK	50	0	21.84	21.76	21.75	
10	16QAM	1	0	21.98	22.03	21.91	23
10	16QAM	1	25	21.91	22.14	22.05	
10	16QAM	1	49	22.01	22.12	21.94	
10	16QAM	25	0	21.01	21.03	20.84	22
10	16QAM	25	12	20.71	20.87	20.96	
10	16QAM	25	25	20.89	20.78	20.72	
10	16QAM	50	0	20.70	20.85	20.82	
10	64QAM	1	0	20.90	21.03	20.79	22
10	64QAM	1	25	20.80	20.84	20.82	
10	64QAM	1	49	20.88	20.78	20.76	
10	64QAM	25	0	19.81	20.12	19.85	21
10	64QAM	25	12	19.77	19.87	19.91	
10	64QAM	25	25	19.91	19.80	19.79	
10	64QAM	50	0	19.80	19.88	19.81	
10	256QAM	1	0	17.74	17.93	17.77	19
10	256QAM	1	25	17.78	17.86	17.83	
10	256QAM	1	49	17.71	17.71	17.68	
10	256QAM	25	0	16.71	17.00	16.69	18
10	256QAM	25	12	16.58	16.73	16.91	
10	256QAM	25	25	16.79	16.80	16.62	
10	256QAM	50	0	16.57	16.82	16.59	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	22.73	22.79	22.74	24
5	QPSK	1	12	22.65	22.77	22.75	
5	QPSK	1	24	22.60	22.76	22.56	
5	QPSK	12	0	21.83	21.86	21.78	23
5	QPSK	12	7	21.75	21.89	21.81	

5	QPSK	12	13	21.67	21.85	21.63	
5	QPSK	25	0	21.79	21.84	21.82	
5	16QAM	1	0	21.96	22.07	21.92	23
5	16QAM	1	12	22.07	22.10	21.91	
5	16QAM	1	24	21.93	22.09	21.81	
5	16QAM	12	0	21.04	21.08	20.86	22
5	16QAM	12	7	20.80	20.91	20.96	
5	16QAM	12	13	20.73	20.80	20.83	
5	16QAM	25	0	20.75	20.83	20.75	
5	64QAM	1	0	20.93	20.91	20.85	22
5	64QAM	1	12	20.78	20.88	20.71	
5	64QAM	1	24	21.06	20.80	20.74	
5	64QAM	12	0	19.76	20.08	19.67	21
5	64QAM	12	7	19.84	19.79	19.86	
5	64QAM	12	13	19.78	19.86	19.76	
5	64QAM	25	0	19.81	19.93	19.71	
5	256QAM	1	0	17.91	17.91	17.68	19
5	256QAM	1	12	17.63	17.89	17.84	
5	256QAM	1	24	17.71	17.73	17.65	
5	256QAM	12	0	16.57	16.80	16.84	18
5	256QAM	12	7	16.69	16.88	16.86	
5	256QAM	12	13	16.68	16.68	16.59	
5	256QAM	25	0	16.71	16.89	16.72	

Band 38(only on channel required) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.67	22.84	22.64	24
20	QPSK	1	49	22.74	22.69	22.61	
20	QPSK	1	99	22.61	22.64	22.57	
20	QPSK	50	0	21.81	21.88	21.79	23
20	QPSK	50	24	21.73	21.84	21.77	
20	QPSK	50	50	21.82	21.81	21.61	
20	QPSK	100	0	21.78	21.79	21.79	
20	16QAM	1	0	21.86	22.00	22.01	23
20	16QAM	1	49	21.92	22.07	22.00	
20	16QAM	1	99	21.89	21.99	21.85	
20	16QAM	50	0	20.86	20.90	20.85	22
20	16QAM	50	24	20.65	20.94	20.75	
20	16QAM	50	50	20.76	20.84	20.73	
20	16QAM	100	0	20.72	20.80	20.90	
20	64QAM	1	0	20.86	20.89	20.81	22
20	64QAM	1	49	20.74	20.87	20.84	
20	64QAM	1	99	20.84	20.77	20.63	
20	64QAM	50	0	19.81	19.97	19.82	21
20	64QAM	50	24	19.73	19.78	19.84	
20	64QAM	50	50	19.85	19.83	19.66	
20	64QAM	100	0	19.78	19.82	19.58	
20	256QAM	1	0	17.79	17.85	17.62	19
20	256QAM	1	49	17.71	17.86	17.78	
20	256QAM	1	99	17.86	17.70	17.59	
20	256QAM	50	0	16.76	17.00	16.68	18
20	256QAM	50	24	16.75	16.76	16.92	
20	256QAM	50	50	16.83	16.75	16.59	
20	256QAM	100	0	16.79	16.85	16.75	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.72	22.81	22.77	24
15	QPSK	1	37	22.60	22.68	22.59	
15	QPSK	1	74	22.61	22.78	22.59	
15	QPSK	36	0	21.81	21.88	21.90	23
15	QPSK	36	20	21.79	21.77	21.80	
15	QPSK	36	39	21.67	21.84	21.69	
15	QPSK	75	0	21.86	21.70	21.79	
15	16QAM	1	0	21.99	21.94	21.95	23
15	16QAM	1	37	21.86	22.04	21.84	
15	16QAM	1	74	21.75	21.88	21.81	
15	16QAM	36	0	20.80	20.87	20.77	22
15	16QAM	36	20	20.74	20.86	20.81	
15	16QAM	36	39	20.65	20.86	20.82	
15	16QAM	75	0	20.79	20.90	20.90	
15	64QAM	1	0	20.84	20.96	20.88	22
15	64QAM	1	37	20.91	20.94	20.69	
15	64QAM	1	74	20.77	20.72	20.73	
15	64QAM	36	0	19.77	19.95	19.87	21
15	64QAM	36	20	19.78	19.83	19.73	
15	64QAM	36	39	19.74	19.79	19.84	
15	64QAM	75	0	19.70	19.64	19.75	
15	256QAM	1	0	17.82	17.99	17.61	19
15	256QAM	1	37	17.70	17.79	17.80	
15	256QAM	1	74	17.78	17.70	17.59	
15	256QAM	36	0	16.68	16.81	16.82	18
15	256QAM	36	20	16.67	16.69	16.92	
15	256QAM	36	39	16.70	16.72	16.64	
15	256QAM	75	0	16.70	16.89	16.69	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.71	22.79	22.77	24
10	QPSK	1	25	22.61	22.76	22.78	
10	QPSK	1	49	22.81	22.72	22.57	
10	QPSK	25	0	21.95	21.86	21.97	23
10	QPSK	25	12	21.67	21.82	21.77	
10	QPSK	25	25	21.72	21.84	21.80	
10	QPSK	50	0	21.78	21.74	21.70	
10	16QAM	1	0	21.89	22.03	21.89	23
10	16QAM	1	25	21.81	21.91	21.85	
10	16QAM	1	49	21.83	21.91	21.82	
10	16QAM	25	0	20.74	20.88	20.85	22
10	16QAM	25	12	20.70	20.83	20.92	
10	16QAM	25	25	20.63	20.72	20.75	
10	16QAM	50	0	20.85	20.72	20.71	
10	64QAM	1	0	20.85	20.89	20.72	22
10	64QAM	1	25	20.90	20.76	20.87	
10	64QAM	1	49	20.85	20.69	20.77	
10	64QAM	25	0	19.81	19.91	19.93	21
10	64QAM	25	12	19.59	19.68	19.74	
10	64QAM	25	25	19.66	19.83	19.76	
10	64QAM	50	0	19.55	19.73	19.66	
10	256QAM	1	0	17.82	17.90	17.69	19
10	256QAM	1	25	17.74	17.77	17.82	
10	256QAM	1	49	17.69	17.69	17.74	
10	256QAM	25	0	16.78	16.87	16.67	18
10	256QAM	25	12	16.64	16.87	16.81	
10	256QAM	25	25	16.69	16.78	16.77	
10	256QAM	50	0	16.66	16.79	16.71	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.72	22.78	22.73	24
5	QPSK	1	12	22.70	22.78	22.65	
5	QPSK	1	24	22.72	22.67	22.58	
5	QPSK	12	0	22.00	21.81	21.94	23
5	QPSK	12	7	21.77	21.77	21.85	
5	QPSK	12	13	21.74	21.86	21.70	
5	QPSK	25	0	21.85	21.82	21.73	
5	16QAM	1	0	22.06	21.94	22.07	23
5	16QAM	1	12	21.99	21.97	21.99	
5	16QAM	1	24	21.85	21.95	21.89	
5	16QAM	12	0	20.95	20.92	20.79	22
5	16QAM	12	7	20.64	20.82	20.85	
5	16QAM	12	13	20.66	20.87	20.68	
5	16QAM	25	0	20.73	20.78	20.76	
5	64QAM	1	0	20.85	20.93	20.94	22
5	64QAM	1	12	20.80	20.96	20.73	
5	64QAM	1	24	20.80	20.76	20.82	
5	64QAM	12	0	19.86	19.89	19.93	21
5	64QAM	12	7	19.70	19.70	19.81	
5	64QAM	12	13	19.69	19.77	19.66	
5	64QAM	25	0	19.66	19.73	19.70	
5	256QAM	1	0	17.84	17.83	17.65	19
5	256QAM	1	12	17.71	17.84	17.87	
5	256QAM	1	24	17.82	17.61	17.60	
5	256QAM	12	0	16.74	16.86	16.74	18
5	256QAM	12	7	16.74	16.81	16.77	
5	256QAM	12	13	16.73	16.72	16.70	
5	256QAM	25	0	16.66	16.86	16.68	

Band 41 PC3 (2496~2690MHz) (dBm)

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	22.86	22.83	22.90	22.82	22.81	24
20	QPSK	1	49	22.71	22.69	22.83	22.64	22.81	
20	QPSK	1	99	22.74	22.84	22.87	22.70	22.71	
20	QPSK	50	0	21.93	21.92	21.94	21.87	21.88	23
20	QPSK	50	24	21.74	21.72	21.94	21.73	21.79	
20	QPSK	50	50	21.87	21.67	21.90	21.72	21.86	
20	QPSK	100	0	21.79	21.81	21.87	21.91	21.68	
20	16QAM	1	0	21.85	21.83	22.02	22.03	21.98	23
20	16QAM	1	49	21.96	21.82	21.87	22.09	21.84	
20	16QAM	1	99	21.81	21.80	21.92	21.93	22.00	
20	16QAM	50	0	20.86	20.80	21.00	20.93	20.96	22
20	16QAM	50	24	20.71	20.72	20.88	20.95	20.91	
20	16QAM	50	50	20.85	20.69	20.92	20.82	20.83	
20	16QAM	100	0	20.91	20.74	20.74	20.77	20.76	
20	64QAM	1	0	20.96	20.87	21.04	20.89	20.96	22
20	64QAM	1	49	20.90	20.82	20.89	20.71	20.91	
20	64QAM	1	99	20.75	20.88	20.72	20.79	20.82	
20	64QAM	50	0	19.75	19.82	20.01	19.90	19.89	21
20	64QAM	50	24	19.67	19.83	19.87	19.78	19.89	
20	64QAM	50	50	19.88	19.80	19.78	19.78	19.84	
20	64QAM	100	0	19.67	19.64	19.77	19.65	19.66	
20	256QAM	1	0	17.65	17.77	17.87	17.63	17.70	19
20	256QAM	1	49	17.61	17.71	17.77	17.77	17.66	
20	256QAM	1	99	17.69	17.82	17.65	17.60	17.59	
20	256QAM	50	0	16.59	16.66	16.94	16.72	16.69	18
20	256QAM	50	24	16.70	16.62	16.72	16.85	16.77	
20	256QAM	50	50	16.69	16.84	16.81	16.58	16.60	
20	256QAM	100	0	16.68	16.73	16.81	16.69	16.59	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.82	22.78	22.87	22.69	22.77	24
15	QPSK	1	37	22.77	22.81	22.85	22.74	22.78	
15	QPSK	1	74	22.79	22.85	22.76	22.81	22.71	
15	QPSK	36	0	22.05	22.01	21.97	21.82	21.85	23
15	QPSK	36	20	21.84	21.84	21.78	21.95	21.92	
15	QPSK	36	39	21.86	21.87	21.79	21.87	21.72	
15	QPSK	75	0	21.90	21.80	21.89	21.86	21.70	
15	16QAM	1	0	22.14	22.16	21.97	22.09	21.93	23
15	16QAM	1	37	21.96	21.98	22.11	21.88	22.07	
15	16QAM	1	74	21.90	21.87	22.13	22.05	22.01	
15	16QAM	36	0	20.99	20.97	20.90	20.98	20.83	22
15	16QAM	36	20	20.90	20.90	21.01	20.74	20.86	
15	16QAM	36	39	20.85	20.76	21.01	20.75	20.78	
15	16QAM	75	0	20.81	20.72	20.72	20.81	20.95	
15	64QAM	1	0	20.85	20.98	21.05	20.80	20.92	22
15	64QAM	1	37	20.88	20.72	20.95	20.94	20.87	
15	64QAM	1	74	20.84	20.70	20.90	20.80	20.72	
15	64QAM	36	0	19.74	19.79	20.05	19.89	19.96	21
15	64QAM	36	20	19.76	19.81	19.77	19.82	20.01	
15	64QAM	36	39	19.74	19.72	19.82	19.73	19.76	
15	64QAM	75	0	19.69	19.80	19.93	19.70	19.88	
15	256QAM	1	0	17.69	17.83	18.02	17.60	17.82	19
15	256QAM	1	37	17.70	17.63	17.83	17.83	17.77	
15	256QAM	1	74	17.71	17.81	17.67	17.68	17.64	
15	256QAM	36	0	16.66	16.71	16.81	16.84	16.79	18
15	256QAM	36	20	16.80	16.65	16.71	16.96	16.80	
15	256QAM	36	39	16.70	16.79	16.69	16.72	16.69	
15	256QAM	75	0	16.65	16.73	16.85	16.73	16.71	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.83	22.85	22.86	22.84	22.82	24
10	QPSK	1	25	22.76	22.68	22.74	22.73	22.74	
10	QPSK	1	49	22.74	22.68	22.67	22.76	22.83	
10	QPSK	25	0	21.86	21.93	22.01	21.85	22.00	23
10	QPSK	25	12	21.72	21.88	21.99	21.87	21.86	
10	QPSK	25	25	21.76	21.72	21.93	21.76	21.79	
10	QPSK	50	0	21.83	21.78	21.74	21.82	21.91	
10	16QAM	1	0	22.05	22.16	22.05	22.04	21.99	23
10	16QAM	1	25	22.06	22.12	22.01	21.88	21.89	
10	16QAM	1	49	21.80	21.98	22.02	21.97	21.99	
10	16QAM	25	0	21.01	20.92	20.98	21.02	20.97	22
10	16QAM	25	12	20.73	20.86	20.86	20.83	20.98	
10	16QAM	25	25	20.68	20.71	20.97	20.75	20.80	
10	16QAM	50	0	20.92	20.74	20.90	20.76	20.86	
10	64QAM	1	0	20.83	20.84	21.04	21.03	20.88	22
10	64QAM	1	25	20.89	20.96	20.97	20.76	20.75	
10	64QAM	1	49	20.82	20.76	20.72	20.75	20.69	
10	64QAM	25	0	19.95	19.75	19.80	19.95	19.87	21
10	64QAM	25	12	19.78	19.85	19.81	19.97	19.94	
10	64QAM	25	25	19.84	19.85	19.74	19.79	19.80	
10	64QAM	50	0	19.64	19.81	19.79	19.85	19.76	
10	256QAM	1	0	17.77	17.85	17.99	17.68	17.69	19
10	256QAM	1	25	17.60	17.58	17.74	17.82	17.74	
10	256QAM	1	49	17.71	17.77	17.69	17.68	17.70	
10	256QAM	25	0	16.69	16.72	16.98	16.69	16.70	18
10	256QAM	25	12	16.70	16.75	16.89	16.82	16.76	
10	256QAM	25	25	16.65	16.67	16.64	16.70	16.68	
10	256QAM	50	0	16.71	16.65	16.75	16.72	16.70	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	22.72	22.74	22.85	22.76	22.79	24
5	QPSK	1	12	22.75	22.66	22.78	22.79	22.72	
5	QPSK	1	24	22.78	22.81	22.82	22.73	22.84	
5	QPSK	12	0	21.91	21.91	21.90	21.98	21.80	23
5	QPSK	12	7	21.85	21.80	21.79	21.96	21.81	
5	QPSK	12	13	21.71	21.68	21.84	21.88	21.67	
5	QPSK	25	0	21.71	21.85	21.93	21.78	21.67	
5	16QAM	1	0	22.14	22.07	22.00	22.12	21.95	23
5	16QAM	1	12	21.96	22.04	22.08	22.09	22.03	
5	16QAM	1	24	21.97	22.01	22.00	22.05	21.92	
5	16QAM	12	0	20.89	20.79	21.08	20.96	20.98	22
5	16QAM	12	7	20.81	20.77	20.88	20.81	20.95	
5	16QAM	12	13	20.69	20.65	20.81	20.73	20.86	
5	16QAM	25	0	20.97	20.99	21.02	20.98	21.00	
5	64QAM	1	0	20.88	20.90	21.07	21.00	20.78	22
5	64QAM	1	12	20.79	20.75	20.89	20.85	20.73	
5	64QAM	1	24	20.78	20.76	20.74	20.74	20.66	
5	64QAM	12	0	19.96	19.89	20.01	19.95	19.80	21
5	64QAM	12	7	19.70	19.74	19.84	19.80	19.93	
5	64QAM	12	13	19.78	19.68	19.86	19.74	19.83	
5	64QAM	25	0	19.60	19.67	19.74	19.74	19.76	
5	256QAM	1	0	17.69	17.76	17.93	17.66	17.70	19
5	256QAM	1	12	17.70	17.68	17.90	17.81	17.63	
5	256QAM	1	24	17.71	17.73	17.73	17.62	17.59	
5	256QAM	12	0	16.71	16.80	16.99	16.71	16.68	18
5	256QAM	12	7	16.69	16.70	16.86	16.82	16.70	
5	256QAM	12	13	16.65	16.75	16.78	16.80	16.72	
5	256QAM	25	0	16.70	16.64	16.94	16.63	16.69	

Band 41 PC2 (2496~2690MHz) (dBm)

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	25.69	25.76	25.77	25.41	25.39	27
20	QPSK	1	49	25.61	25.73	25.74	25.53	25.40	
20	QPSK	1	99	25.70	25.74	25.57	25.40	25.38	
20	QPSK	50	0	24.80	24.81	24.83	24.55	24.42	26
20	QPSK	50	24	24.74	24.61	24.69	24.45	24.51	
20	QPSK	50	50	24.65	24.59	24.75	24.50	24.36	
20	QPSK	100	0	24.74	24.76	24.65	24.44	24.41	
20	16QAM	1	0	24.86	24.94	24.95	24.72	24.59	26
20	16QAM	1	49	24.76	24.84	24.85	24.58	24.62	
20	16QAM	1	99	24.83	24.83	24.88	24.61	24.50	
20	16QAM	50	0	23.70	23.69	23.71	23.56	23.46	25
20	16QAM	50	24	23.62	23.67	23.61	23.49	23.30	
20	16QAM	50	50	23.55	23.47	23.60	23.35	23.22	
20	16QAM	100	0	23.66	23.50	23.52	23.37	23.29	
20	64QAM	1	0	23.82	23.69	23.90	23.49	23.44	25
20	64QAM	1	49	23.74	23.67	23.80	23.43	23.42	
20	64QAM	1	99	23.72	23.71	23.64	23.49	23.43	
20	64QAM	50	0	22.71	22.63	22.70	22.47	22.28	24
20	64QAM	50	24	22.48	22.59	22.62	22.54	22.27	
20	64QAM	50	50	22.51	22.56	22.64	22.34	22.38	
20	64QAM	100	0	22.52	22.39	22.66	22.30	22.22	
20	256QAM	1	0	20.92	20.87	21.08	20.87	20.92	22
20	256QAM	1	49	20.68	20.80	20.81	21.00	21.04	
20	256QAM	1	99	20.82	20.89	20.79	20.76	20.71	
20	256QAM	50	0	19.63	19.76	19.87	19.93	19.88	21
20	256QAM	50	24	19.75	19.67	19.89	20.05	20.00	
20	256QAM	50	50	19.73	19.88	19.74	19.71	19.81	
20	256QAM	100	0	19.64	19.71	19.82	19.75	19.70	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.64	25.69	25.74	25.48	25.37	27
15	QPSK	1	37	25.65	25.65	25.62	25.45	25.37	
15	QPSK	1	74	25.61	25.62	25.64	25.43	25.34	
15	QPSK	36	0	24.84	24.81	24.88	24.67	24.57	26
15	QPSK	36	20	24.79	24.75	24.79	24.53	24.45	
15	QPSK	36	39	24.61	24.55	24.82	24.39	24.39	
15	QPSK	75	0	24.70	24.59	24.66	24.37	24.29	
15	16QAM	1	0	24.74	24.88	24.89	24.62	24.69	26
15	16QAM	1	37	24.86	24.92	24.80	24.71	24.44	
15	16QAM	1	74	24.84	24.83	24.76	24.69	24.50	
15	16QAM	36	0	23.73	23.61	23.85	23.59	23.37	25
15	16QAM	36	20	23.69	23.66	23.61	23.39	23.43	
15	16QAM	36	39	23.52	23.42	23.63	23.43	23.41	
15	16QAM	75	0	23.49	23.49	23.56	23.34	23.36	
15	64QAM	1	0	23.67	23.79	23.77	23.67	23.41	25
15	64QAM	1	37	23.62	23.76	23.75	23.41	23.46	
15	64QAM	1	74	23.73	23.71	23.59	23.36	23.40	
15	64QAM	36	0	22.67	22.60	22.71	22.40	22.25	24
15	64QAM	36	20	22.45	22.42	22.61	22.42	22.34	
15	64QAM	36	39	22.67	22.56	22.53	22.36	22.23	
15	64QAM	75	0	22.47	22.56	22.63	22.25	22.21	
15	256QAM	1	0	20.98	20.82	20.94	20.87	20.78	22
15	256QAM	1	37	20.69	20.65	20.91	21.09	20.98	
15	256QAM	1	74	20.74	20.75	20.64	20.75	20.75	
15	256QAM	36	0	19.62	19.79	19.93	19.88	19.97	21
15	256QAM	36	20	19.79	19.81	19.81	19.94	20.09	
15	256QAM	36	39	19.73	19.77	19.73	19.75	19.67	
15	256QAM	75	0	19.72	19.77	19.94	19.71	19.61	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.70	25.72	25.73	25.57	25.46	27
10	QPSK	1	25	25.69	25.67	25.71	25.51	25.35	
10	QPSK	1	49	25.60	25.71	25.61	25.36	25.28	
10	QPSK	25	0	24.84	24.77	24.77	24.62	24.41	26
10	QPSK	25	12	24.72	24.67	24.77	24.48	24.48	
10	QPSK	25	25	24.57	24.62	24.68	24.35	24.39	
10	QPSK	50	0	24.58	24.67	24.62	24.52	24.39	
10	16QAM	1	0	24.89	24.86	24.88	24.72	24.64	26
10	16QAM	1	25	24.76	24.88	24.84	24.64	24.60	
10	16QAM	1	49	24.81	24.81	24.78	24.54	24.46	
10	16QAM	25	0	23.73	23.66	23.76	23.55	23.50	25
10	16QAM	25	12	23.49	23.62	23.70	23.37	23.27	
10	16QAM	25	25	23.46	23.53	23.64	23.46	23.37	
10	16QAM	50	0	23.54	23.53	23.59	23.46	23.27	
10	64QAM	1	0	23.82	23.72	23.76	23.47	23.38	25
10	64QAM	1	25	23.76	23.63	23.85	23.43	23.44	
10	64QAM	1	49	23.55	23.67	23.68	23.46	23.37	
10	64QAM	25	0	22.67	22.67	22.65	22.34	22.30	24
10	64QAM	25	12	22.44	22.43	22.59	22.39	22.31	
10	64QAM	25	25	22.63	22.60	22.59	22.43	22.35	
10	64QAM	50	0	22.57	22.42	22.54	22.36	22.27	
10	256QAM	1	0	20.96	20.96	20.98	20.83	20.79	22
10	256QAM	1	25	20.65	20.83	20.96	20.99	20.91	
10	256QAM	1	49	20.74	20.81	20.67	20.69	20.68	
10	256QAM	25	0	19.79	19.78	19.89	19.82	19.87	21
10	256QAM	25	12	19.76	19.73	19.90	20.06	19.94	
10	256QAM	25	25	19.85	19.80	19.77	19.69	19.70	
10	256QAM	50	0	19.71	19.78	19.90	19.76	19.77	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.68	25.67	25.70	25.46	25.44	27
5	QPSK	1	12	25.60	25.65	25.67	25.41	25.36	
5	QPSK	1	24	25.59	25.57	25.63	25.33	25.36	
5	QPSK	12	0	24.83	24.82	24.84	24.50	24.56	26
5	QPSK	12	7	24.61	24.72	24.73	24.46	24.36	
5	QPSK	12	13	24.70	24.67	24.82	24.52	24.39	
5	QPSK	25	0	24.61	24.69	24.65	24.39	24.43	
5	16QAM	1	0	24.84	24.80	24.92	24.68	24.55	26
5	16QAM	1	12	24.90	24.78	24.86	24.58	24.43	
5	16QAM	1	24	24.86	24.83	24.83	24.51	24.59	
5	16QAM	12	0	23.56	23.73	23.66	23.61	23.36	25
5	16QAM	12	7	23.49	23.49	23.75	23.53	23.28	
5	16QAM	12	13	23.45	23.53	23.64	23.34	23.34	
5	16QAM	25	0	23.59	23.50	23.69	23.37	23.32	
5	64QAM	1	0	23.73	23.82	23.84	23.52	23.40	25
5	64QAM	1	12	23.66	23.65	23.83	23.55	23.39	
5	64QAM	1	24	23.70	23.73	23.74	23.39	23.37	
5	64QAM	12	0	22.60	22.51	22.65	22.41	22.31	24
5	64QAM	12	7	22.48	22.51	22.51	22.40	22.45	
5	64QAM	12	13	22.66	22.53	22.67	22.35	22.22	
5	64QAM	25	0	22.50	22.40	22.67	22.31	22.33	
5	256QAM	1	0	20.81	20.80	21.08	20.82	20.86	22
5	256QAM	1	12	20.64	20.78	20.88	20.94	20.91	
5	256QAM	1	24	20.80	20.84	20.61	20.71	20.83	
5	256QAM	12	0	19.65	19.68	19.94	19.96	19.96	21
5	256QAM	12	7	19.68	19.82	19.83	20.02	20.08	
5	256QAM	12	13	19.74	19.78	19.67	19.76	19.62	
5	256QAM	25	0	19.75	19.65	19.91	19.73	19.73	

Band 42 (3450~3550MHz) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	22.25	22.33	22.27	23
20	QPSK	1	49	21.72	21.89	21.70	
20	QPSK	1	99	21.82	21.86	21.81	
20	QPSK	50	0	21.32	21.43	21.32	22
20	QPSK	50	24	20.90	20.95	20.85	
20	QPSK	50	50	20.79	20.98	20.68	
20	QPSK	100	0	20.93	20.82	20.91	
20	16QAM	1	0	21.13	21.18	21.03	22
20	16QAM	1	49	21.06	21.13	21.00	
20	16QAM	1	99	20.97	21.22	21.00	
20	16QAM	50	0	20.04	20.06	20.05	21
20	16QAM	50	24	19.78	20.00	19.87	
20	16QAM	50	50	19.92	20.06	19.86	
20	16QAM	100	0	19.81	19.92	19.79	
20	64QAM	1	0	19.96	20.03	19.81	21
20	64QAM	1	49	19.85	19.83	19.96	
20	64QAM	1	99	19.92	19.88	19.78	
20	64QAM	50	0	18.85	19.06	18.83	20
20	64QAM	50	24	18.86	18.96	18.95	
20	64QAM	50	50	18.98	18.81	18.86	
20	64QAM	100	0	19.01	19.13	18.82	
20	256QAM	1	0	16.54	16.72	16.59	18
20	256QAM	1	49	16.52	16.61	16.51	
20	256QAM	1	99	26.50	16.48	16.41	
20	256QAM	50	0	15.59	15.51	15.47	17
20	256QAM	50	24	15.48	15.43	15.53	
20	256QAM	50	50	15.46	15.46	15.41	
20	256QAM	100	0	15.50	15.54	15.42	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	21.86	21.90	21.86	23
15	QPSK	1	37	21.84	21.87	21.65	
15	QPSK	1	74	21.74	21.77	21.66	
15	QPSK	36	0	20.98	21.04	20.82	22
15	QPSK	36	20	20.89	21.03	20.83	
15	QPSK	36	39	20.86	20.96	20.77	
15	QPSK	75	0	20.88	20.95	20.96	
15	16QAM	1	0	20.95	21.12	20.96	22
15	16QAM	1	37	21.17	21.14	21.11	
15	16QAM	1	74	20.98	21.19	21.06	
15	16QAM	36	0	20.05	20.01	19.97	21
15	16QAM	36	20	19.75	19.90	19.95	
15	16QAM	36	39	19.91	20.01	19.88	
15	16QAM	75	0	19.92	19.93	19.84	
15	64QAM	1	0	19.94	20.03	19.74	21
15	64QAM	1	37	19.94	19.95	19.86	
15	64QAM	1	74	20.14	19.95	19.85	
15	64QAM	36	0	18.79	19.12	18.79	20
15	64QAM	36	20	18.96	18.91	18.94	
15	64QAM	36	39	19.01	18.89	18.77	
15	64QAM	75	0	18.84	19.13	18.81	
15	256QAM	1	0	16.58	16.63	16.61	18
15	256QAM	1	49	16.47	16.61	16.58	
15	256QAM	1	99	16.50	16.27	16.40	
15	256QAM	50	0	15.39	15.66	15.42	17
15	256QAM	50	24	15.59	15.58	15.61	
15	256QAM	50	50	15.44	15.47	15.52	
15	256QAM	100	0	15.51	15.61	15.53	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	21.84	21.89	21.82	23
10	QPSK	1	25	21.87	21.81	21.82	
10	QPSK	1	49	21.69	21.87	21.73	
10	QPSK	25	0	21.05	21.04	20.95	22
10	QPSK	25	12	20.85	21.03	20.97	
10	QPSK	25	25	20.86	21.05	20.73	
10	QPSK	50	0	20.82	20.93	20.94	
10	16QAM	1	0	21.03	21.05	21.08	22
10	16QAM	1	25	21.08	21.21	21.14	
10	16QAM	1	49	21.02	21.24	21.05	
10	16QAM	25	0	20.02	20.01	20.09	21
10	16QAM	25	12	19.86	20.08	20.05	
10	16QAM	25	25	19.94	19.91	19.82	
10	16QAM	50	0	19.91	19.77	19.93	
10	64QAM	1	0	19.94	20.15	19.88	21
10	64QAM	1	25	19.86	19.91	19.89	
10	64QAM	1	49	20.12	19.85	19.87	
10	64QAM	25	0	18.83	19.11	18.86	20
10	64QAM	25	12	18.97	18.86	18.95	
10	64QAM	25	25	18.90	18.85	18.82	
10	64QAM	50	0	19.02	19.00	18.77	
10	256QAM	1	0	16.54	16.67	16.49	18
10	256QAM	1	49	16.45	16.50	16.50	
10	256QAM	1	99	16.51	16.42	16.41	
10	256QAM	50	0	15.57	15.60	15.56	17
10	256QAM	50	24	15.48	15.40	15.58	
10	256QAM	50	50	15.52	15.52	15.53	
10	256QAM	100	0	15.44	15.55	15.49	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	21.81	21.87	21.82	23
5	QPSK	1	12	21.77	21.84	21.79	
5	QPSK	1	24	21.81	21.85	21.77	
5	QPSK	12	0	20.97	20.91	20.96	22
5	QPSK	12	7	20.95	20.95	20.84	
5	QPSK	12	13	20.76	20.93	20.74	
5	QPSK	25	0	20.76	20.81	20.80	
5	16QAM	1	0	21.13	21.10	21.09	22
5	16QAM	1	12	21.05	21.17	21.07	
5	16QAM	1	24	20.99	21.09	20.99	
5	16QAM	12	0	20.05	20.03	20.00	21
5	16QAM	12	7	19.87	20.02	19.87	
5	16QAM	12	13	19.88	20.03	19.86	
5	16QAM	25	0	19.78	19.87	19.86	
5	64QAM	1	0	19.93	20.17	19.86	21
5	64QAM	1	12	19.92	19.92	19.96	
5	64QAM	1	24	20.00	19.82	19.84	
5	64QAM	12	0	18.95	19.07	18.94	20
5	64QAM	12	7	18.87	18.80	18.88	
5	64QAM	12	13	18.95	18.96	18.84	
5	64QAM	25	0	18.86	18.99	18.83	
5	256QAM	1	0	16.59	16.59	16.53	18
5	256QAM	1	49	16.43	16.45	16.57	
5	256QAM	1	99	16.51	16.30	16.42	
5	256QAM	50	0	15.52	15.56	15.55	17
5	256QAM	50	24	15.47	15.52	15.60	
5	256QAM	50	50	15.49	15.44	15.54	
5	256QAM	100	0	15.45	15.60	15.56	

Band 42 (3550~3600MHz) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				43190	43340	43490	
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	22.24	22.27	22.22	23
20	QPSK	1	49	21.70	21.84	21.69	
20	QPSK	1	99	21.79	21.80	21.63	
20	QPSK	50	0	21.29	21.36	21.29	22
20	QPSK	50	24	20.77	20.88	20.76	
20	QPSK	50	50	20.75	20.94	20.58	
20	QPSK	100	0	20.81	20.87	20.85	
20	16QAM	1	0	20.99	20.99	20.92	22
20	16QAM	1	49	20.94	21.15	21.15	
20	16QAM	1	99	21.02	21.16	20.87	
20	16QAM	50	0	19.97	19.97	19.93	21
20	16QAM	50	24	19.83	19.93	19.92	
20	16QAM	50	50	19.93	19.92	19.69	
20	16QAM	100	0	19.74	19.75	19.85	
20	64QAM	1	0	19.77	19.95	19.72	21
20	64QAM	1	49	19.74	19.93	19.85	
20	64QAM	1	99	19.83	19.89	19.81	
20	64QAM	50	0	18.89	19.04	18.75	20
20	64QAM	50	24	18.99	18.75	19.01	
20	64QAM	50	50	19.01	18.75	18.80	
20	64QAM	100	0	18.77	18.95	18.82	
20	256QAM	1	0	16.54	16.65	16.63	18
20	256QAM	1	49	16.53	16.60	16.64	
20	256QAM	1	99	16.44	16.44	16.50	
20	256QAM	50	0	15.50	15.54	15.46	17
20	256QAM	50	24	15.42	15.58	15.48	
20	256QAM	50	50	15.38	15.48	15.41	
20	256QAM	100	0	15.45	15.53	15.48	
Channel				43165	43340	43515	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3575	3592.5	
15	QPSK	1	0	21.81	21.83	21.78	23
15	QPSK	1	37	21.74	21.77	21.63	
15	QPSK	1	74	21.62	21.70	21.62	
15	QPSK	36	0	20.89	20.94	20.78	22
15	QPSK	36	20	20.81	20.87	20.86	
15	QPSK	36	39	20.85	20.82	20.69	
15	QPSK	75	0	20.88	20.88	20.83	
15	16QAM	1	0	20.97	21.08	21.10	22
15	16QAM	1	37	20.93	21.12	21.07	
15	16QAM	1	74	20.88	21.10	20.96	
15	16QAM	36	0	20.03	19.96	19.94	21
15	16QAM	36	20	19.87	19.93	19.87	
15	16QAM	36	39	19.78	19.83	19.70	
15	16QAM	75	0	19.83	19.77	19.78	
15	64QAM	1	0	19.79	20.02	19.81	21
15	64QAM	1	37	19.92	19.90	19.72	
15	64QAM	1	74	20.09	19.89	19.80	
15	64QAM	36	0	18.76	19.06	18.84	20
15	64QAM	36	20	18.94	18.91	18.94	
15	64QAM	36	39	18.83	18.78	18.78	
15	64QAM	75	0	18.93	18.98	18.68	
15	256QAM	1	0	16.59	16.73	16.50	18
15	256QAM	1	49	16.48	16.55	16.50	
15	256QAM	1	99	16.53	16.39	16.41	
15	256QAM	50	0	15.34	15.60	15.50	17
15	256QAM	50	24	15.57	15.62	15.56	
15	256QAM	50	50	15.51	15.46	15.47	
15	256QAM	100	0	15.50	15.63	15.55	
Channel				43140	43340	43540	Tune-up limit (dBm)
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	21.82	21.85	21.79	23
10	QPSK	1	25	21.84	21.81	21.74	
10	QPSK	1	49	21.72	21.78	21.73	
10	QPSK	25	0	20.95	20.92	20.90	22
10	QPSK	25	12	20.87	20.82	20.79	
10	QPSK	25	25	20.76	20.90	20.67	
10	QPSK	50	0	20.79	20.83	20.76	
10	16QAM	1	0	20.94	21.00	20.99	22
10	16QAM	1	25	21.00	21.16	21.05	
10	16QAM	1	49	20.97	21.15	20.84	
10	16QAM	25	0	20.02	20.05	20.04	21
10	16QAM	25	12	19.80	19.91	19.81	
10	16QAM	25	25	19.83	20.01	19.76	
10	16QAM	50	0	19.69	19.78	19.93	
10	64QAM	1	0	19.78	20.04	19.77	21
10	64QAM	1	25	19.83	19.80	19.83	
10	64QAM	1	49	20.05	19.91	19.81	
10	64QAM	25	0	18.80	19.10	18.75	20
10	64QAM	25	12	18.97	18.79	18.87	
10	64QAM	25	25	18.99	18.93	18.79	
10	64QAM	50	0	18.79	19.05	18.83	
10	256QAM	1	0	16.49	16.55	16.58	18
10	256QAM	1	49	16.50	16.51	16.64	
10	256QAM	1	99	16.43	16.45	16.52	
10	256QAM	50	0	15.58	15.52	15.52	17
10	256QAM	50	24	15.51	15.58	15.51	
10	256QAM	50	50	15.50	15.48	15.44	
10	256QAM	100	0	15.44	15.59	15.51	
Channel				43115	43340	43565	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3575	3597.5	
5	QPSK	1	0	21.78	21.84	21.81	23
5	QPSK	1	12	21.80	21.80	21.63	
5	QPSK	1	24	21.67	21.71	21.67	
5	QPSK	12	0	20.94	20.95	20.87	22
5	QPSK	12	7	20.78	21.01	20.89	
5	QPSK	12	13	20.78	20.92	20.70	
5	QPSK	25	0	20.73	20.77	20.94	
5	16QAM	1	0	20.92	21.06	21.10	22
5	16QAM	1	12	21.09	21.01	21.14	
5	16QAM	1	24	20.90	21.23	20.89	
5	16QAM	12	0	20.08	19.94	19.99	21
5	16QAM	12	7	19.85	19.87	19.97	
5	16QAM	12	13	19.74	19.83	19.84	
5	16QAM	25	0	19.68	19.74	19.88	
5	64QAM	1	0	19.77	20.05	19.72	21
5	64QAM	1	12	19.90	19.92	19.86	
5	64QAM	1	24	19.98	19.90	19.75	
5	64QAM	12	0	18.77	19.10	18.88	20
5	64QAM	12	7	18.93	18.80	18.85	
5	64QAM	12	13	18.82	18.87	18.80	
5	64QAM	25	0	18.78	19.05	18.82	
5	256QAM	1	0	16.64	16.58	16.47	18
5	256QAM	1	49	16.51	16.59	16.51	
5	256QAM	1	99	16.45	16.42	16.47	
5	256QAM	50	0	15.55	15.69	15.49	17
5	256QAM	50	24	15.53	15.54	15.50	
5	256QAM	50	50	15.42	15.48	15.52	
5	256QAM	100	0	15.50	15.49	15.44	

Band 43 (3.6GHz Band) for FCC use (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle channel	High channel	Tune-up limit (dBm)
Channel				43690	44090	44490	
Frequency (MHz)				3610	3650	3690	
20	QPSK	1	0	21.86	21.91	21.85	
20	QPSK	1	49	21.72	21.83	21.71	23
20	QPSK	1	99	21.66	21.66	21.68	
20	QPSK	50	0	20.95	20.96	20.74	
20	QPSK	50	24	20.71	20.83	20.74	22
20	QPSK	50	50	20.85	20.92	20.76	
20	QPSK	100	0	20.73	20.84	20.76	
20	16QAM	1	0	20.97	21.00	21.09	
20	16QAM	1	49	21.01	21.03	21.10	22
20	16QAM	1	99	20.89	21.08	20.90	
20	16QAM	50	0	19.97	20.01	19.93	
20	16QAM	50	24	19.76	19.93	19.75	21
20	16QAM	50	50	19.84	19.85	19.74	
20	16QAM	100	0	19.67	19.78	19.95	
20	64QAM	1	0	19.94	20.03	19.78	
20	64QAM	1	49	19.78	19.94	19.96	21
20	64QAM	1	99	19.87	19.75	19.68	
20	64QAM	50	0	18.76	19.00	18.87	
20	64QAM	50	24	18.77	18.89	18.97	20
20	64QAM	50	50	18.85	18.81	18.66	
20	64QAM	100	0	18.75	18.94	18.65	
20	256QAM	1	0	16.75	16.86	16.61	
20	256QAM	1	49	16.60	16.70	16.81	18
20	256QAM	1	99	16.62	16.56	16.47	
20	256QAM	50	0	15.47	15.87	15.76	
20	256QAM	50	24	15.47	15.73	15.86	17
20	256QAM	50	50	15.68	15.65	15.54	
20	256QAM	100	0	15.65	15.78	15.55	
Channel				43665	44090	44515	Tune-up limit (dBm)
Frequency (MHz)				3607.5	3650	3692.5	
15	QPSK	1	0	21.81	21.87	21.79	
15	QPSK	1	37	21.71	21.67	21.58	23
15	QPSK	1	74	21.68	21.72	21.54	
15	QPSK	36	0	20.96	20.98	20.94	
15	QPSK	36	20	20.79	20.81	20.84	22
15	QPSK	36	39	20.96	20.78	20.67	
15	QPSK	75	0	20.82	20.92	20.85	
15	16QAM	1	0	20.92	21.01	21.03	
15	16QAM	1	37	21.06	21.05	21.10	22
15	16QAM	1	74	20.91	20.95	20.81	
15	16QAM	36	0	19.96	19.96	19.88	
15	16QAM	36	20	19.71	20.01	19.86	21
15	16QAM	36	39	19.72	19.83	19.69	
15	16QAM	75	0	19.72	19.90	20.04	
15	64QAM	1	0	19.90	20.04	19.80	
15	64QAM	1	37	19.70	19.86	19.86	21
15	64QAM	1	74	19.86	19.89	19.77	
15	64QAM	36	0	18.83	18.96	18.93	
15	64QAM	36	20	18.70	18.88	18.93	20
15	64QAM	36	39	18.91	18.91	18.75	
15	64QAM	75	0	18.86	18.96	18.67	
15	256QAM	1	0	16.82	16.75	16.52	
15	256QAM	1	37	16.53	16.74	16.72	18
15	256QAM	1	74	16.59	16.62	16.53	
15	256QAM	36	0	15.60	15.86	15.62	
15	256QAM	36	20	15.61	15.67	15.75	17
15	256QAM	36	39	15.60	15.61	15.38	
15	256QAM	75	0	15.51	15.76	15.50	
Channel				43640	44090	44540	Tune-up limit (dBm)
Frequency (MHz)				3605	3650	3695	
10	QPSK	1	0	21.79	21.85	21.80	
10	QPSK	1	25	21.74	21.79	21.66	23
10	QPSK	1	49	21.66	21.76	21.64	
10	QPSK	25	0	20.94	20.89	20.82	
10	QPSK	25	12	20.80	20.97	20.83	22
10	QPSK	25	25	20.78	20.92	20.65	
10	QPSK	50	0	20.75	20.78	20.82	
10	16QAM	1	0	20.97	21.03	20.97	
10	16QAM	1	25	21.00	21.06	21.02	22
10	16QAM	1	49	20.93	21.11	20.89	
10	16QAM	25	0	19.98	20.01	19.94	
10	16QAM	25	12	19.76	19.92	19.87	21
10	16QAM	25	25	19.80	19.89	19.74	
10	16QAM	50	0	19.75	19.77	19.81	
10	64QAM	1	0	19.84	20.01	19.76	
10	64QAM	1	25	19.79	19.84	19.79	21
10	64QAM	1	49	19.98	19.84	19.75	
10	64QAM	25	0	18.78	19.07	18.77	
10	64QAM	25	12	18.88	18.79	18.89	20
10	64QAM	25	25	18.89	18.82	18.73	
10	64QAM	50	0	18.84	18.96	18.59	
10	256QAM	1	0	16.70	16.75	16.63	
10	256QAM	1	25	16.60	16.64	16.77	18
10	256QAM	1	49	16.57	16.63	16.51	
10	256QAM	25	0	15.54	15.82	15.67	
10	256QAM	25	12	15.52	15.75	15.87	17
10	256QAM	25	25	15.73	15.69	15.52	
10	256QAM	50	0	15.64	15.72	15.55	
Channel				43615	44090	44565	Tune-up limit (dBm)
Frequency (MHz)				3602.5	3650	3697.5	
5	QPSK	1	0	21.80	21.86	21.77	
5	QPSK	1	12	21.70	21.71	21.58	23
5	QPSK	1	24	21.72	21.73	21.63	
5	QPSK	12	0	20.83	20.98	20.87	
5	QPSK	12	7	20.86	20.92	20.87	22
5	QPSK	12	13	20.78	20.79	20.69	
5	QPSK	25	0	20.73	20.84	20.84	
5	16QAM	1	0	20.93	20.98	21.11	

Band 43 (3.7GHz Band) for FCC use (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle channel	High channel	Tune-up limit (dBm)
Channel				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	21.89	21.95	21.83	
20	QPSK	1	49	21.66	21.92	21.63	23
20	QPSK	1	99	21.57	21.65	21.75	
20	QPSK	50	0	20.96	20.99	20.80	
20	QPSK	50	24	20.71	20.75	20.71	22
20	QPSK	50	50	20.88	20.82	20.82	
20	QPSK	100	0	20.80	20.86	20.77	
20	16QAM	1	0	20.98	20.99	21.02	
20	16QAM	1	49	21.09	21.09	21.04	22
20	16QAM	1	99	20.93	20.98	21.00	
20	16QAM	50	0	20.03	19.98	19.87	
20	16QAM	50	24	19.77	19.93	19.78	21
20	16QAM	50	50	19.76	19.79	19.70	
20	16QAM	100	0	19.74	19.79	20.02	
20	64QAM	1	0	20.03	20.10	19.83	
20	64QAM	1	49	19.72	19.89	19.93	21
20	64QAM	1	99	19.80	19.74	19.77	
20	64QAM	50	0	18.68	19.01	18.84	
20	64QAM	50	24	18.82	18.94	19.06	20
20	64QAM	50	50	18.93	18.84	18.71	
20	64QAM	100	0	18.78	18.94	18.72	
20	256QAM	1	0	16.74	16.89	16.66	
20	256QAM	1	49	16.58	16.67	16.81	18
20	256QAM	1	99	16.70	16.60	16.53	
20	256QAM	50	0	15.56	15.71	15.60	
20	256QAM	50	24	15.64	15.63	15.84	17
20	256QAM	50	50	15.67	15.61	15.47	
20	256QAM	100	0	15.47	15.72	15.45	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	21.86	21.91	21.78	
15	QPSK	1	37	21.70	21.75	21.68	23
15	QPSK	1	74	21.63	21.65	21.69	
15	QPSK	36	0	21.00	20.99	20.68	
15	QPSK	36	20	20.73	20.87	20.66	22
15	QPSK	36	39	20.75	21.02	20.81	
15	QPSK	75	0	20.63	20.76	20.78	
15	16QAM	1	0	21.02	21.10	21.08	
15	16QAM	1	37	20.94	20.96	21.17	22
15	16QAM	1	74	20.82	21.01	20.94	
15	16QAM	36	0	19.87	20.08	19.94	
15	16QAM	36	20	19.66	19.87	19.82	21
15	16QAM	36	39	19.79	19.83	19.70	
15	16QAM	75	0	19.72	19.87	19.88	
15	64QAM	1	0	20.02	19.96	19.80	
15	64QAM	1	37	19.76	19.94	19.89	21
15	64QAM	1	74	19.96	19.74	19.70	
15	64QAM	36	0	18.72	18.96	18.78	
15	64QAM	36	20	18.76	18.84	19.04	20
15	64QAM	36	39	18.83	18.83	18.60	
15	64QAM	75	0	18.69	19.02	18.71	
15	256QAM	1	0	16.68	16.83	16.66	
15	256QAM	1	37	16.65	16.77	16.86	18
15	256QAM	1	74	16.68	16.57	16.53	
15	256QAM	36	0	15.51	15.89	15.65	
15	256QAM	36	20	15.60	15.61	15.70	17
15	256QAM	36	39	15.75	15.68	15.48	
15	256QAM	75	0	15.60	15.73	15.48	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	0	21.77	21.92	21.75	
10	QPSK	1	25	21.79	21.90	21.67	23
10	QPSK	1	49	21.74	21.68	21.60	
10	QPSK	25	0	20.93	20.92	20.66	
10	QPSK	25	12	20.81	20.80	20.76	22
10	QPSK	25	25	20.82	20.99	20.68	
10	QPSK	50	0	20.70	20.81	20.76	
10	16QAM	1	0	21.04	21.10	21.10	
10	16QAM	1	25	20.92	21.08	21.02	22
10	16QAM	1	49	20.84	21.04	20.83	
10	16QAM	25	0	19.90	20.04	19.93	
10	16QAM	25	12	19.67	19.95	19.65	21
10	16QAM	25	25	19.86	19.75	19.74	
10	16QAM	50	0	19.73	19.70	20.01	
10	64QAM	1	0	20.04	19.99	19.70	
10	64QAM	1	25	19.81	19.89	19.90	21
10	64QAM	1	49	19.82	19.84	19.60	
10	64QAM	25	0	18.67	19.02	18.88	
10	64QAM	25	12	18.84	18.91	19.02	20
10	64QAM	25	25	18.87	18.88	18.74	
10	64QAM	50	0	18.67	18.98	18.75	
10	256QAM	1	0	16.72	16.85	16.63	
10	256QAM	1	25	16.48	16.65	16.66	18
10	256QAM	1	49	16.77	16.48	16.59	
10	256QAM	25	0	15.58	15.76	15.59	
10	256QAM	25	12	15.65	15.73	15.72	17
10	256QAM	25	25	15.69	15.59	15.46	
10	256QAM	50	0	15.58	15.73	15.56	
Channel				44615	45090	45565	Tune-up limit (dBm)
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	21.88	21.89	21.86	
5	QPSK	1	12	21.63	21.83	21.80	23
5	QPSK	1	24	21.60	21.75	21.77	
5	QPSK	12	0	20.88	20.89	20.68	
5	QPSK	12	7	20.61	20.77	20.84	22
5	QPSK	12	13	20.85	20.89	20.69	
5	QPSK	25	0	20.70	20.94	20.72	
5	16QAM	1	0	20.96	20.94	21.14	

5	16QAM	1	12	20.87	21.12	21.13	22
5	16QAM	1	24	21.02	20.96	20.94	
5	16QAM	12	0	19.85	19.98	19.98	21
5	16QAM	12	7	19.66	19.89	19.90	
5	16QAM	12	13	19.76	19.91	19.72	
5	16QAM	25	0	19.68	19.86	19.96	
5	64QAM	1	0	20.00	19.95	19.96	21
5	64QAM	1	12	19.80	19.99	19.99	
5	64QAM	1	24	19.93	19.76	19.70	
5	64QAM	12	0	18.78	19.00	18.79	20
5	64QAM	12	7	18.76	18.92	18.98	
5	64QAM	12	13	18.94	18.91	18.68	
5	64QAM	25	0	18.92	18.80	18.61	
5	256QAM	1	0	16.83	16.81	16.68	18
5	256QAM	1	12	16.50	16.76	16.86	
5	256QAM	1	24	16.76	16.64	16.52	
5	256QAM	12	0	15.52	15.79	15.67	17
5	256QAM	12	7	15.66	15.64	15.87	
5	256QAM	12	13	15.64	15.68	15.50	
5	256QAM	25	0	15.56	15.69	15.52	

5	16QAM	1	12	20.97	20.97	21.04	22
5	16QAM	1	24	20.92	21.03	21.00	
5	16QAM	12	0	19.95	20.05	19.84	21
5	16QAM	12	7	19.79	20.00	19.85	
5	16QAM	12	13	19.88	19.87	19.77	
5	16QAM	25	0	19.76	19.82	19.88	
5	64QAM	1	0	19.93	19.94	19.73	21
5	64QAM	1	12	19.69	20.02	19.96	
5	64QAM	1	24	19.97	19.66	19.71	
5	64QAM	12	0	18.86	19.10	18.88	20
5	64QAM	12	7	18.76	18.83	18.95	
5	64QAM	12	13	18.95	18.77	18.72	
5	64QAM	25	0	18.80	18.99	18.57	
5	256QAM	1	0	16.75	16.78	16.61	18
5	256QAM	1	12	16.49	16.72	16.77	
5	256QAM	1	24	16.71	16.57	16.55	
5	256QAM	12	0	15.48	15.73	15.72	17
5	256QAM	12	7	15.48	15.74	15.85	
5	256QAM	12	13	15.58	15.64	15.47	
5	256QAM	25	0	15.62	15.71	15.48	

Band 48 (3.5G Band) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	22.17	22.20	22.23	22.18	22.10	23
20	QPSK	1	49	21.67	21.69	21.69	21.72	21.71	
20	QPSK	1	99	21.73	21.71	21.73	21.53	21.67	
20	QPSK	50	0	21.27	21.18	21.30	21.13	21.03	22
20	QPSK	50	24	20.72	20.71	20.77	20.81	20.70	
20	QPSK	50	50	20.72	20.63	20.85	20.66	20.50	
20	QPSK	100	0	20.74	20.65	20.74	20.67	20.48	
20	16QAM	1	0	21.00	20.95	21.05	21.00	20.85	22
20	16QAM	1	49	20.90	21.02	20.87	20.80	20.71	
20	16QAM	1	99	20.88	20.80	20.93	20.89	20.74	
20	16QAM	50	0	19.66	19.82	19.74	19.81	19.68	21
20	16QAM	50	24	19.68	19.69	19.77	19.65	19.49	
20	16QAM	50	50	19.66	19.59	19.79	19.52	19.43	
20	16QAM	100	0	19.69	19.63	19.73	19.67	19.53	
20	64QAM	1	0	19.86	19.87	19.91	19.70	19.77	21
20	64QAM	1	49	19.86	19.78	19.82	19.76	19.69	
20	64QAM	1	99	19.67	19.64	19.83	19.74	19.55	
20	64QAM	50	0	19.66	19.66	19.80	19.70	19.52	20
20	64QAM	50	24	19.55	19.69	19.67	19.68	19.56	
20	64QAM	50	50	19.71	19.56	19.66	19.57	19.47	
20	64QAM	100	0	19.66	19.56	19.74	19.60	19.42	
20	256QAM	1	0	16.67	16.61	16.68	16.55	16.40	17
20	256QAM	1	49	16.55	16.51	16.57	16.57	16.61	
20	256QAM	1	99	16.55	16.47	16.37	16.35	16.45	
20	256QAM	50	0	15.40	15.47	15.73	15.55	15.45	17
20	256QAM	50	24	15.46	15.50	15.63	15.62	15.58	
20	256QAM	50	50	15.45	15.61	15.44	15.36	15.42	
20	256QAM	100	0	15.45	15.49	15.65	15.33	15.30	
Channel				55315	55820	55990	56160.15	56665.15	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3625	3642.15	3692.65	
15	QPSK	1	0	21.71	21.77	21.79	21.78	21.73	23
15	QPSK	1	37	21.65	21.68	21.68	21.72	21.71	
15	QPSK	1	74	21.67	21.73	21.73	21.73	21.63	
15	QPSK	36	0	20.77	20.88	20.83	20.87	20.77	22
15	QPSK	36	20	20.79	20.76	20.81	20.89	20.83	
15	QPSK	36	39	20.80	20.81	20.83	20.71	20.69	
15	QPSK	75	0	20.70	20.66	20.78	20.72	20.82	
15	16QAM	1	0	21.06	20.88	21.02	21.02	21.04	22
15	16QAM	1	37	21.00	20.83	20.87	20.93	20.89	
15	16QAM	1	74	20.88	20.78	20.91	21.04	20.77	
15	16QAM	36	0	19.64	19.81	19.81	19.91	19.72	21
15	16QAM	36	20	19.61	19.76	19.72	19.89	19.66	
15	16QAM	36	39	19.58	19.60	19.68	19.76	19.68	
15	16QAM	75	0	19.60	19.54	19.64	19.89	19.72	
15	64QAM	1	0	19.81	19.85	19.83	19.86	19.93	21
15	64QAM	1	37	19.82	19.83	19.75	19.76	19.79	
15	64QAM	1	74	19.78	19.73	19.65	19.81	19.71	
15	64QAM	36	0	19.58	19.64	19.67	19.80	19.77	20
15	64QAM	36	20	19.64	19.69	19.52	19.73	19.63	
15	64QAM	36	39	19.58	19.54	19.74	19.81	19.66	
15	64QAM	75	0	19.55	19.60	19.55	19.63	19.51	
15	256QAM	1	0	16.67	16.63	16.63	16.48	16.37	17
15	256QAM	1	37	16.40	16.36	16.54	16.55	16.73	
15	256QAM	1	74	16.64	16.56	16.45	16.37	16.39	
15	256QAM	36	0	15.42	15.35	15.70	15.54	15.49	17
15	256QAM	36	20	15.55	15.39	15.65	15.59	15.61	
15	256QAM	36	39	15.46	15.63	15.45	15.40	15.35	
15	256QAM	75	0	15.46	15.46	15.57	15.26	15.38	
Channel				55290	55815	55990	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3625	3642.5	3695	
10	QPSK	1	0	21.69	21.76	21.78	21.67	21.62	23
10	QPSK	1	25	21.73	21.64	21.79	21.69	21.45	
10	QPSK	1	49	21.64	21.74	21.76	21.61	21.60	
10	QPSK	25	0	20.86	20.83	20.95	20.84	20.65	22
10	QPSK	25	12	20.82	20.77	20.75	20.66	20.72	
10	QPSK	25	25	20.70	20.73	20.73	20.66	20.66	
10	QPSK	50	0	20.71	20.73	20.87	20.68	20.62	
10	16QAM	1	0	21.04	21.04	20.94	20.90	20.79	22
10	16QAM	1	25	20.84	20.88	20.86	20.90	20.78	
10	16QAM	1	49	20.94	20.76	20.89	20.92	20.76	
10	16QAM	25	0	19.65	19.67	19.77	19.76	19.72	21
10	16QAM	25	12	19.66	19.73	19.85	19.66	19.47	
10	16QAM	25	25	19.58	19.56	19.63	19.71	19.52	
10	16QAM	50	0	19.59	19.63	19.78	19.73	19.61	
10	64QAM	1	0	19.85	19.84	19.83	19.86	19.74	21
10	64QAM	1	25	19.74	19.75	19.92	19.64	19.58	
10	64QAM	1	49	19.63	19.76	19.82	19.74	19.56	
10	64QAM	25	0	19.75	19.65	19.81	19.58	19.65	20
10	64QAM	25	12	19.56	19.54	19.64	19.66	19.60	
10	64QAM	25	25	19.64	19.56	19.63	19.51	19.49	
10	64QAM	50	0	19.51	19.47	19.72	19.57	19.41	
10	256QAM	1	0	16.64	16.63	16.61	16.48	16.44	16
10	256QAM	1	25	16.38	16.41	16.59	16.69	16.63	
10	256QAM	1	49	16.62	16.60	16.35	16.31	16.37	
10	256QAM	25	0	15.49	15.53	15.74	15.45	15.58	16
10	256QAM	25	12	15.53	15.52	15.64	15.71	15.63	
10	256QAM	25	25	15.63	15.45	15.52	15.40	15.34	
10	256QAM	50	0	15.41	15.41	15.71	15.37	15.38	
Channel				55265	55810	55990	56170	56175	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	
5	QPSK	1	0	21.74	21.73	21.76	21.70	21.62	23
5	QPSK	1	12	21.65	21.71	21.70	21.61	21.53	
5	QPSK	1	24	21.63	21.63	21.64	21.62	21.53	
5	QPSK	12	0	20.93	20.94	20.84	20.79	20.80	22
5	QPSK	12	7	20.84	20.66	20.93	20.71	20.53	
5	QPSK	12	13	20.65	20.81	20.83	20.69	20.50	
5	QPSK	25	0	20.73	20.70	20.70	20.70	20.50	
5	16QAM	1	0	20.96	21.03	20.95	20.84	20.87	

5	16QAM	1	12	20.88	21.00	20.91	20.77	20.69	22
5	16QAM	1	24	20.92	20.82	20.94	20.89	20.64	
5	16QAM	12	0	19.75	19.63	19.79	19.73	19.70	21
5	16QAM	12	7	19.70	19.65	19.72	19.60	19.55	
5	16QAM	12	13	19.56	19.67	19.80	19.61	19.51	
5	16QAM	25	0	19.71	19.56	19.70	19.70	19.57	
5	64QAM	1	0	19.90	19.77	19.85	19.78	19.72	21
5	64QAM	1	12	19.76	19.74	19.80	19.72	19.57	
5	64QAM	1	24	19.71	19.67	19.78	19.74	19.64	
5	64QAM	12	0	19.67	19.73	19.73	19.59	19.50	20
5	64QAM	12	7	19.52	19.53	19.55	19.60	19.67	
5	64QAM	12	13	19.74	19.73	19.60	19.70	19.57	
5	64QAM	25	0	19.66	19.53	19.55	19.53	19.48	
5	256QAM	1	0	16.70	16.67	16.63	16.42	16.51	18
5	256QAM	1	12	16.47	16.40	16.54	16.58	16.70	
5	256QAM	1	24	16.58	16.61	16.51	16.45	16.31	
5	256QAM	12	0	15.52	15.52	15.65	15.49	15.61	17
5	256QAM	12	7	15.48	15.51	15.66	15.67	15.72	
5	256QAM	12	13	15.44	15.52	15.44	15.40	15.40	
5	256QAM	25	0	15.41	15.38	15.67	15.39	15.43	

n2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channe	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.51	23.35	23.06	24.50
20		1	53	23.50	23.20	23.12	
20		1	104	23.41	23.11	23.05	
20		50	1	23.06	22.88	22.70	24.50
20		50	25	23.56	23.32	23.18	
20		50	50	23.02	22.75	22.62	
20		100	0	23.08	22.82	22.67	
20	DFT-s-OFDM QPSK	1	1	23.47	23.57	23.09	24.50
20		1	53	23.50	23.34	23.17	
20		1	104	23.38	23.12	23.02	
20		50	1	22.33	22.57	22.16	23.50
20		50	25	22.51	22.33	22.12	
20		50	50	22.54	22.28	22.10	
20		100	0	22.58	22.35	22.14	
20	DFT-s-OFDM 16QAM	1	1	22.43	22.33	22.04	23.00
20	DFT-s-OFDM 64QAM	1	1	20.99	20.84	20.60	21.50
20	DFT-s-OFDM 256QAM	1	1	18.78	18.65	18.38	19.50
20	CP-OFDM QPSK	1	1	21.97	21.80	21.57	22.50
20	CP-OFDM 16QAM	1	1	21.45	21.30	21.05	22.00
20	CP-OFDM 64QAM	1	1	19.78	19.63	19.43	20.50
20	CP-OFDM 256QAM	1	1	16.78	16.62	16.39	17.50
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	23.51	23.36	23.15	24.50
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	23.45	23.36	23.03	24.00
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	23.50	23.34	22.96	24.50

n5

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.62	22.59	22.57	23.50
20		1	53	22.59	22.56	22.55	
20		1	104	22.45	22.42	22.40	
20		50	1	22.43	22.42	22.42	23.50
20		50	25	22.64	22.67	22.66	
20		50	50	22.33	22.29	22.29	
20		100	0	22.38	22.40	22.39	
20	DFT-s-OFDM QPSK	1	1	22.56	22.69	22.61	23.50
20		1	53	22.59	22.62	22.65	
20		1	104	22.48	22.46	22.55	
20		50	1	21.91	21.94	21.90	22.50
20		50	25	21.65	21.64	21.61	
20		50	50	21.82	21.82	21.80	
20		100	0	21.88	21.91	21.86	
20	DFT-s-OFDM 16QAM	1	1	21.89	21.85	21.94	22.50
20	DFT-s-OFDM 64QAM	1	1	20.28	20.26	20.39	21.00
20	DFT-s-OFDM 256QAM	1	1	18.11	18.09	18.23	19.00
20	CP-OFDM QPSK	1	1	21.31	21.33	21.45	22.00
20	CP-OFDM 16QAM	1	1	20.83	20.78	20.88	21.50
20	CP-OFDM 64QAM	1	1	18.95	18.92	19.03	20.00
20	CP-OFDM 256QAM	1	1	16.13	16.13	16.20	17.00
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	22.60	22.54	22.61	23.50
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	22.41	22.42	22.42	23.00
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	22.45	22.45	22.47	23.00

n7							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				502000	507000	512000	
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.48	22.21	22.57	24.00
20		1	53	22.47	22.38	22.68	
20		1	104	22.30	22.62	22.97	
20		50	1	22.00	22.02	22.33	24.00
20		50	25	22.58	22.56	22.95	
20		50	50	21.95	22.05	22.55	
20		100	0	22.06	22.05	22.40	
20	DFT-s-OFDM QPSK	1	1	22.88	23.26	22.91	24.00
20		1	53	22.61	22.76	23.19	
20		1	104	22.71	22.83	23.24	
20		50	1	22.21	22.31	22.25	23.00
20		50	25	21.53	21.51	21.82	
20		50	50	21.50	21.59	22.09	
20		100	0	21.59	21.56	21.98	
20	DFT-s-OFDM 16QAM	1	1	21.40	21.12	21.55	22.50
20	DFT-s-OFDM 64QAM	1	1	19.95	19.86	20.10	21.00
20	DFT-s-OFDM 256QAM	1	1	17.79	17.70	17.96	18.50
20	CP-OFDM QPSK	1	1	21.03	20.95	21.15	22.00
20	CP-OFDM 16QAM	1	1	20.48	20.32	20.58	21.50
20	CP-OFDM 64QAM	1	1	18.90	18.97	19.01	20.00
20	CP-OFDM 256QAM	1	1	15.78	15.64	15.92	16.50
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	22.54	22.38	22.77	23.50
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	22.33	22.24	22.68	23.50
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	22.65	22.26	22.73	23.50

n12 (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	22.72	22.76	22.76	23.50
15		1	39	22.76	22.79	22.76	
15		1	77	22.72	22.70	22.65	
15		36	1	22.33	22.33	22.32	23.50
15		36	18	22.85	22.82	22.80	
15		36	37	22.26	22.28	22.26	
15		75	0	22.32	22.37	22.37	
15	DFT-s-OFDM QPSK	1	1	22.76	22.88	22.73	23.50
15		1	39	22.80	22.77	22.80	
15		1	77	22.62	22.68	22.68	
15		36	1	21.81	21.84	21.80	22.50
15		36	18	21.81	21.83	21.81	
15		36	37	21.80	21.80	21.76	
15		75	0	21.83	21.83	21.85	
15	DFT-s-OFDM 16QAM	1	1	21.80	21.81	21.80	22.50
15	DFT-s-OFDM 64QAM	1	1	20.23	20.21	20.23	21.00
15	DFT-s-OFDM 256QAM	1	1	18.04	18.01	18.02	19.00
15	CP-OFDM QPSK	1	1	21.17	21.16	21.15	22.00
15	CP-OFDM 16QAM	1	1	20.72	20.71	20.70	21.50
15	CP-OFDM 64QAM	1	1	18.82	18.82	18.79	19.50
15	CP-OFDM 256QAM	1	1	15.77	15.77	15.73	16.50
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	22.68	22.70	22.63	23.50
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	DFT-s-OFDM QPSK	1	1	22.70	22.60	22.55	23.50

n13 (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	DFT-s-OFDM PI/2 BPSK	1	1		22.83		23.50
10		1	26		22.71		
10		1	50		22.90		
10		25	1		22.33		23.00
10		25	12		22.88		
10		25	25		22.46		
10		50	0		22.42		
10	DFT-s-OFDM QPSK	1	1		22.97		23.50
10		1	26		22.75		
10		1	50		22.84		
10		25	1		21.87		22.50
10		25	12		21.84		
10		25	25		21.80		
10		50	0		21.83		
10	DFT-s-OFDM 16QAM	1	1		21.65		22.50
10	DFT-s-OFDM 64QAM	1	1		20.33		21.00
10	DFT-s-OFDM 256QAM	1	1		18.14		19.00
10	CP-OFDM QPSK	1	1		21.24		22.00
10	CP-OFDM 16QAM	1	1		20.71		21.50
10	CP-OFDM 64QAM	1	1		19.29		20.00
10	CP-OFDM 256QAM	1	1		15.95		16.50
Channel				155900	156400	156900	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	DFT-s-OFDM QPSK	1	1	22.75	22.86	22.70	23.50

n14 (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channe	High Channel	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	DFT-s-OFDM PI/2 BPSK	1	1		22.90		23.50
10		1	26		22.71		
10		1	50		22.65		
10		25	1		22.30		23.50
10		25	12		22.85		
10		25	25		22.30		
10		50	0		22.36		
10	DFT-s-OFDM QPSK	1	1		22.93		23.50
10		1	26		22.73		
10		1	50		22.66		
10		25	1		21.83		22.50
10		25	12		21.77		
10		25	25		21.75		
10		50	0		21.78		
10	DFT-s-OFDM 16QAM	1	1		21.92		22.50
10	DFT-s-OFDM 64QAM	1	1		20.36		21.00
10	DFT-s-OFDM 256QAM	1	1		18.00		19.00
10	CP-OFDM QPSK	1	1		21.31		22.00
10	CP-OFDM 16QAM	1	1		20.82		21.50
10	CP-OFDM 64QAM	1	1		18.95		19.50
10	CP-OFDM 256QAM	1	1		16.00		17.00
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	DFT-s-OFDM QPSK	1	1	22.90	22.83	22.76	23.50

n25

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channe	High Channel	Tune-up limit (dBm)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.43	23.29	23.05	24.50
20		1	53	23.42	23.20	23.04	
20		1	104	23.36	23.06	23.00	
20		50	1	22.98	22.77	22.58	24.50
20		50	25	23.54	23.29	23.11	
20		50	50	22.94	22.72	22.62	
20		100	0	23.01	22.77	22.60	
20	DFT-s-OFDM QPSK	1	1	23.55	23.66	23.01	24.50
20		1	53	23.53	23.14	23.04	
20		1	104	23.35	23.16	23.06	
20		50	1	22.53	22.54	22.34	23.50
20		50	25	22.51	22.31	22.26	
20		50	50	22.47	22.21	22.17	
20		100	0	22.54	22.33	22.16	
20	DFT-s-OFDM 16QAM	1	1	22.40	22.24	22.03	23.00
20	DFT-s-OFDM 64QAM	1	1	20.95	20.76	20.57	21.50
20	DFT-s-OFDM 256QAM	1	1	18.77	18.64	18.36	19.50
20	CP-OFDM QPSK	1	1	21.91	21.76	21.50	22.50
20	CP-OFDM 16QAM	1	1	21.39	21.22	20.95	22.00
20	CP-OFDM 64QAM	1	1	19.75	19.56	19.32	20.50
20	CP-OFDM 256QAM	1	1	16.78	16.57	16.37	17.50
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	23.61	23.29	23.00	24.50
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	23.20	23.07	22.77	24.00
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	23.25	23.21	22.77	24.00

n26(814-824MHz) (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					163800		
Frequency (MHz)					819		
10	DFT-s-OFDM PI/2 BPSK	1	1		22.65		23.50
10		1	26		22.63		
10		1	50		22.53		
10		25	1		22.43		23.50
10		25	12		22.66		
10		25	25		22.38		
10		50	0		22.43		
10	DFT-s-OFDM QPSK	1	1		22.69		23.50
10		1	26		22.61		
10		1	50		22.57		
10		25	1		22.62		23.50
10		25	12		22.61		
10		25	25		21.88		
10		50	0		21.91		
10	DFT-s-OFDM 16QAM	1	1		21.94		22.50
10	DFT-s-OFDM 64QAM	1	1		20.36		21.00
10	DFT-s-OFDM 256QAM	1	1		18.14		19.00
10	CP-OFDM QPSK	1	1		21.30		22.00
10	CP-OFDM 16QAM	1	1		20.83		21.50
10	CP-OFDM 64QAM	1	1		18.96		19.50
10	CP-OFDM 256QAM	1	1		16.15		17.00
Channel				163300	163800	164300	Tune-up limit (dBm)
Frequency (MHz)				816.5	819	821.5	
5	DFT-s-OFDM QPSK	1	1	22.61	22.60	22.58	23.50

n26(824-849MHz) (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.74	22.72	22.70	23.50
20		1	53	22.75	22.71	22.70	
20		1	104	22.61	22.68	22.61	
20		50	1	22.54	22.58	22.57	23.50
20		50	25	22.78	22.76	22.73	
20		50	50	22.54	22.47	22.53	
20		100	0	22.54	22.56	22.53	
20	DFT-s-OFDM QPSK	1	1	22.75	22.88	22.71	23.50
20		1	53	22.77	22.71	22.71	
20		1	104	22.58	22.67	22.59	
20		50	1	22.11	22.15	22.07	23.00
20		50	25	21.78	21.80	21.70	
20		50	50	22.00	21.97	22.05	
20		100	0	22.06	22.06	22.03	
20	DFT-s-OFDM 16QAM	1	1	22.00	22.02	22.11	23.00
20	DFT-s-OFDM 64QAM	1	1	20.44	20.42	20.53	21.50
20	DFT-s-OFDM 256QAM	1	1	18.27	18.24	18.34	19.00
20	CP-OFDM QPSK	1	1	21.43	21.41	21.56	22.50
20	CP-OFDM 16QAM	1	1	20.94	20.94	21.01	22.00
20	CP-OFDM 64QAM	1	1	19.11	19.08	19.16	20.00
20	CP-OFDM 256QAM	1	1	16.29	16.28	16.34	17.00
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	22.74	22.78	22.71	23.50
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	22.55	22.58	22.58	23.50
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	22.56	22.56	22.49	23.50

n30 (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channe	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		23.34		24.00
10		1	26		23.38		
10		1	50		23.24		
10		25	1		22.90		24.00
10		25	12		23.34		
10		25	25		22.80		
10		50	0		22.87		
10	DFT-s-OFDM QPSK	1	1		23.54		24.00
10		1	26		23.48		
10		1	50		23.40		
10		25	1		22.37		24.00
10		25	12		23.35		
10		25	25		22.32		
10		50	0		22.38		
10	DFT-s-OFDM 16QAM	1	1		22.51		23.50
10	DFT-s-OFDM 64QAM	1	1		21.12		22.00
10	DFT-s-OFDM 256QAM	1	1		18.58		19.50
10	CP-OFDM QPSK	1	1		22.01		23.00
10	CP-OFDM 16QAM	1	1		21.49		22.00
10	CP-OFDM 64QAM	1	1		20.08		21.00
10	CP-OFDM 256QAM	1	1		16.82		17.50
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	23.19	23.45	22.44	24.00

n38

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channe	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	22.87	22.95	23.18	24.50
40		1	53	23.20	23.28	23.51	
40		1	104	23.60	23.69	23.73	
40		50	1	22.66	22.68	22.84	24.50
40		50	25	23.26	23.35	23.55	
40		50	50	22.95	22.97	23.12	
40		100	0	22.79	22.85	22.97	
40	DFT-s-OFDM QPSK	1	1	23.59	23.87	23.83	24.50
40		1	53	23.17	23.27	23.53	
40		1	104	23.55	23.66	23.79	
40		50	1	22.10	22.45	22.33	24.50
40		50	25	23.23	23.32	23.51	
40		50	50	22.43	22.52	22.63	
40		100	0	22.27	22.35	22.45	
40	DFT-s-OFDM 16QAM	1	1	21.90	22.00	22.19	23.00
40	DFT-s-OFDM 64QAM	1	1	20.36	20.47	20.70	21.50
40	DFT-s-OFDM 256QAM	1	1	18.41	18.33	18.54	19.50
40	CP-OFDM QPSK	1	1	21.39	21.36	21.67	22.50
40	CP-OFDM 16QAM	1	1	20.93	20.94	21.20	22.00
40	CP-OFDM 64QAM	1	1	19.46	19.57	19.84	20.50
40	CP-OFDM 256QAM	1	1	16.46	16.36	16.64	17.50
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	22.71	23.06	23.31	24.00
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	22.82	23.05	23.37	24.00

n41(PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	22.98	23.30	23.19	23.09	23.20	24.50
100		1	136	22.55	23.16	23.26	23.23	23.21	
100		1	271	23.10	23.44	23.19	23.16	22.89	
100		135	1	22.75	23.31	23.24	23.26	23.39	24.50
100		135	67	22.65	23.27	23.34	23.32	23.34	
100		135	136	22.70	23.30	23.34	23.23	23.11	
100		270	0	22.73	23.27	23.29	23.24	23.22	
100	DFT-s-OFDM QPSK	1	1	23.35	23.34	23.55	23.16	23.22	24.50
100		1	136	22.53	23.12	23.30	23.11	23.13	
100		1	271	23.04	23.36	23.20	23.06	22.93	
100		135	1	22.70	23.27	23.38	23.24	23.33	24.50
100		135	67	22.59	23.25	23.34	23.29	23.31	
100		135	136	22.72	23.28	23.33	23.25	23.07	
100		270	0	22.74	23.29	23.25	23.25	23.24	
100	DFT-s-OFDM 16QAM	1	1	23.02	23.33	23.25	23.14	23.29	24.00
100	DFT-s-OFDM 64QAM	1	1	22.99	22.71	22.64	22.54	22.76	23.50
100	DFT-s-OFDM 256QAM	1	1	21.33	20.74	20.59	20.45	20.58	22.00
100	CP-OFDM QPSK	1	1	22.88	23.28	23.23	23.09	23.23	24.00
100	CP-OFDM 16QAM	1	1	22.92	23.35	23.08	22.98	23.10	24.00
100	CP-OFDM 64QAM	1	1	22.56	21.72	21.99	21.73	21.88	23.50
100	CP-OFDM 256QAM	1	1	19.44	18.85	18.64	18.58	18.68	20.00
Channel				508200	513402	518598	523800	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	22.80	23.09	23.04	23.11	23.29	24.00
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	22.87	23.25	23.09	23.11	23.25	24.00
Channel				506202	512400	518598	524796	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	23.00	23.29	23.13	23.31	23.24	24.00
Channel				505200	511902	518598	525798	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	22.99	22.86	23.32	23.42	23.48	24.00
Channel				504204	511404	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	23.21	22.80	23.42	23.45	23.45	24.50
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	23.24	23.11	23.53	23.57	23.54	24.50
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	23.23	22.99	23.50	23.45	26.50	24.50
Channel				501204	509904	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	23.06	22.94	23.48	23.50	23.43	24.50

n41(PC2)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	25.84	25.36	24.58	25.07	25.31	27.00
100		1	136	25.55	25.01	25.37	25.35	25.30	
100		1	271	26.04	25.45	25.30	25.29	25.00	
100		135	1	25.25	24.79	24.83	24.79	24.93	26.00
100		135	67	25.68	25.22	25.44	25.37	25.36	
100		135	136	25.25	24.93	24.94	24.84	24.72	
100		270	0	25.24	24.87	24.87	24.80	24.83	
100	DFT-s-OFDM QPSK	1	1	26.09	25.22	26.16	25.55	25.39	27.00
100		1	136	25.68	24.79	25.33	25.28	25.34	
100		1	271	26.05	25.52	25.11	25.30	24.98	
100		135	1	24.74	24.36	24.75	24.15	24.43	26.00
100		135	67	25.68	25.01	25.44	25.35	25.40	
100		135	136	24.78	24.43	24.42	24.33	24.19	
100		270	0	24.75	24.38	24.34	24.29	24.32	
100	DFT-s-OFDM 16QAM	1	1	24.92	24.34	23.99	24.12	24.40	25.50
100	DFT-s-OFDM 64QAM	1	1	23.46	22.83	22.81	22.56	22.83	24.00
100	DFT-s-OFDM 256QAM	1	1	21.33	20.70	20.60	20.68	20.64	22.00
100	CP-OFDM QPSK	1	1	24.31	23.89	23.64	23.82	23.83	25.00
100	CP-OFDM 16QAM	1	1	23.79	23.28	23.01	23.06	23.15	24.50
100	CP-OFDM 64QAM	1	1	22.61	21.99	21.89	21.82	21.92	23.50
100	CP-OFDM 256QAM	1	1	19.25	18.82	18.66	18.70	18.67	20.00
Channel				508200	513402	518598	523800	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	25.76	25.34	24.53	25.22	25.50	26.50
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	25.80	25.16	24.54	25.28	25.48	26.50
Channel				506202	512400	518598	524796	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	25.85	25.22	24.72	25.35	25.27	26.50
Channel				505200	511902	518598	525798	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	26.01	25.78	24.97	25.48	25.65	27.00
Channel				504204	511404	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	26.14	25.79	25.40	25.42	25.70	27.00
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	26.00	26.11	25.60	25.86	25.74	27.00
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	26.10	26.05	25.59	25.85	25.72	27.00
Channel				501204	509904	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	26.03	26.06	25.69	25.51	25.50	27.00

n48 (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	22.97	22.96	22.97	22.85	22.66	24.00
40		1	53	22.92	22.81	22.88	22.72	22.56	
40		1	104	22.90	22.89	22.84	22.74	22.65	
40		50	1	22.45	22.47	22.43	22.37	22.17	24.00
40		50	25	22.97	22.87	22.84	22.77	22.65	
40		50	50	22.44	22.32	22.29	22.21	22.10	
40		100	0	22.38	22.38	22.38	22.29	22.13	
40	DFT-s-OFDM QPSK	1	1	22.94	22.85	22.98	22.87	22.66	24.00
40		1	53	22.91	22.77	22.80	22.70	22.58	
40		1	104	22.89	22.83	22.84	22.72	22.65	
40		50	1	21.92	21.95	21.93	21.81	21.69	24.00
40		50	25	22.92	22.85	22.84	22.76	22.64	
40		50	50	21.92	21.80	21.75	21.72	21.63	
40		100	0	21.92	21.88	21.83	21.80	21.66	
40	DFT-s-OFDM 16QAM	1	1	21.84	21.77	21.91	21.79	21.62	23.00
40	DFT-s-OFDM 64QAM	1	1	20.17	20.11	20.25	20.18	19.94	22.50
40	DFT-s-OFDM 256QAM	1	1	18.33	18.27	18.33	18.25	18.07	20.00
40	CP-OFDM QPSK	1	1	21.54	21.50	21.49	21.33	21.18	23.50
40	CP-OFDM 16QAM	1	1	20.98	20.99	20.99	20.80	20.67	23.00
40	CP-OFDM 64QAM	1	1	19.51	19.04	19.39	19.25	19.07	21.00
40	CP-OFDM 256QAM	1	1	16.40	16.32	16.40	16.26	16.12	18.00
Channel				637668	639668	641666	643666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	22.70	22.97	22.76	22.32	22.78	24.00
Channel				637334	639500	641666	643832	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	22.94	22.88	22.85	22.62	22.60	24.00
Channel				637000	639334	641666	644000	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	22.30	22.54	22.39	22.58	22.32	24.00

n66

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channe	High Channel	Tune-up limit (dBm)
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	22.74	22.77	22.77	24.00
30		1	80	22.66	22.76	22.82	
30		1	158	22.72	22.74	22.76	
30		80	1	22.33	22.31	22.35	24.00
30		80	40	22.78	22.81	22.83	
30		80	80	22.32	22.40	22.40	
30		160	0	22.26	22.31	22.40	
30	DFT-s-OFDM QPSK	1	1	22.95	23.01	22.99	24.00
30		1	80	22.83	22.82	22.76	
30		1	158	22.95	22.97	22.84	
30		80	1	22.76	22.92	22.89	24.00
30		80	40	21.80	21.77	21.81	
30		80	80	21.87	21.94	21.86	
30		160	0	21.79	21.86	21.86	
30	DFT-s-OFDM 16QAM	1	1	21.94	21.90	21.96	22.50
30	DFT-s-OFDM 64QAM	1	1	20.49	20.43	20.51	21.50
30	DFT-s-OFDM 256QAM	1	1	17.98	16.54	16.61	18.50
30	CP-OFDM QPSK	1	1	21.33	21.33	21.46	22.00
30	CP-OFDM 16QAM	1	1	20.83	20.83	20.86	21.50
30	CP-OFDM 64QAM	1	1	19.35	19.37	19.49	20.00
30	CP-OFDM 256QAM	1	1	16.00	16.34	16.37	17.00
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	22.95	22.88	22.69	23.50
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	22.89	22.80	22.68	23.50
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	22.85	22.90	22.68	23.50
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	22.90	22.63	22.83	24.00

n71							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.65	22.77	22.35	23.50
20		1	53	22.69	22.74	22.62	
20		1	104	22.73	22.70	22.66	
20		50	1	22.25	22.18	22.25	23.50
20		50	25	22.74	22.81	22.67	
20		50	50	22.32	22.15	22.24	
20		100	0	22.25	22.26	22.16	
20	DFT-s-OFDM QPSK	1	1	22.70	22.85	22.83	23.50
20		1	53	22.77	22.73	22.69	
20		1	104	22.70	22.63	22.68	
20		50	1	22.82	22.88	22.68	23.50
20		50	25	21.67	21.76	21.71	
20		50	50	21.78	21.74	21.67	
20		100	0	21.73	21.77	21.75	
20	DFT-s-OFDM 16QAM	1	1	21.74	21.80	21.80	22.50
20	DFT-s-OFDM 64QAM	1	1	20.36	20.56	20.53	21.50
20	DFT-s-OFDM 256QAM	1	1	17.12	17.20	17.36	18.00
20	CP-OFDM QPSK	1	1	21.20	21.28	21.30	22.00
20	CP-OFDM 16QAM	1	1	20.72	20.69	20.79	21.50
20	CP-OFDM 64QAM	1	1	19.23	19.36	19.36	20.00
20	CP-OFDM 256QAM	1	1	15.32	15.46	15.49	16.00
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	22.70	22.78	22.76	23.50
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	22.68	22.65	22.68	23.50
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	22.71	22.50	22.67	23.50

n77(3450-3550MHz)(PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			23.01			25.00
100		1	136			23.44			
100		1	271			23.90			
100		135	1			23.27			25.00
100		135	67			23.46			
100		135	136			23.65			
100		270	0			23.43			
100	DFT-s-OFDM QPSK	1	1			23.99			25.00
100		1	136			23.36			
100		1	271			23.81			
100		135	1			23.24			24.50
100		135	67			23.40			
100		135	136			23.61			
100		270	0			23.38			
100	DFT-s-OFDM 16QAM	1	1			23.10			24.00
100	DFT-s-OFDM 64QAM	1	1			23.00			24.00
100	DFT-s-OFDM 256QAM	1	1			21.34			22.00
100	CP-OFDM QPSK	1	1			22.96			23.50
100	CP-OFDM 16QAM	1	1			23.01			24.00
100	CP-OFDM 64QAM	1	1			22.52			23.50
100	CP-OFDM 256QAM	1	1			19.40			20.00
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	22.89	22.82	23.00	23.15	23.24	24.00
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	23.56	23.30	23.40	23.39	23.58	24.50
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	23.43	23.54	23.74	23.91	23.85	25.00
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	23.38	23.63	23.84	23.86	23.80	25.00
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	23.29	23.42	23.69	23.85	23.98	24.50

n77(3450-3550MHz)(PC2)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			26.02			27.50
100		1	136			26.45			
100		1	271			26.77			
100		135	1			25.78			27.00
100		135	67			26.42			
100		135	136			26.15			
100		270	0			25.97			
100	DFT-s-OFDM QPSK	1	1			26.80			27.50
100		1	136			26.40			
100		1	271			26.75			
100		135	1			26.49			27.00
100		135	67			26.47			
100		135	136			25.67			
100		270	0			25.41			
100	DFT-s-OFDM 16QAM	1	1			25.11			26.00
100	DFT-s-OFDM 64QAM	1	1			23.46			24.00
100	DFT-s-OFDM 256QAM	1	1			21.37			22.00
100	CP-OFDM QPSK	1	1			24.43			25.00
100	CP-OFDM 16QAM	1	1			24.01			25.00
100	CP-OFDM 64QAM	1	1			22.59			23.50
100	CP-OFDM 256QAM	1	1			19.44			20.00
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	25.99	25.97	26.06	26.14	26.20	27.00
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	26.15	26.26	26.28	26.41	26.57	27.50
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	26.52	26.41	26.66	26.75	26.59	28.00
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	26.33	26.62	26.58	26.59	26.71	28.00
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	26.32	26.50	26.56	26.77	26.78	27.50

n77(3700-3980MHz)(PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	23.56	23.18	23.50	23.50	23.57	25.00
100		1	136	23.72	23.61	23.72	23.63	23.87	
100		1	271	23.53	23.81	23.61	24.01	23.86	
100		135	1	23.69	23.44	23.64	23.61	23.80	25.00
100		135	67	23.76	23.55	23.63	23.62	23.87	
100		135	136	23.65	23.64	23.68	23.73	23.95	
100		270	0	23.67	23.53	23.69	23.68	23.85	
100	DFT-s-OFDM QPSK	1	1	23.52	23.19	24.20	23.53	23.53	25.00
100		1	136	23.73	23.64	23.69	23.63	23.87	
100		1	271	23.54	23.81	23.65	24.01	23.84	
100		135	1	23.62	23.41	23.86	23.57	23.77	25.00
100		135	67	23.72	23.55	23.64	23.63	23.88	
100		135	136	23.65	23.61	23.64	23.73	23.90	
100		270	0	23.66	23.51	23.68	23.66	23.79	
100	DFT-s-OFDM 16QAM	1	1	23.62	23.23	23.66	23.60	23.63	24.50
100	DFT-s-OFDM 64QAM	1	1	23.60	23.21	23.52	23.52	23.60	24.50
100	DFT-s-OFDM 256QAM	1	1	21.92	21.51	21.86	21.85	21.95	22.50
100	CP-OFDM QPSK	1	1	23.50	23.16	23.52	23.49	23.59	24.50
100	CP-OFDM 16QAM	1	1	23.54	23.22	23.52	23.46	23.55	24.50
100	CP-OFDM 64QAM	1	1	23.18	22.79	23.11	23.06	23.11	24.00
100	CP-OFDM 256QAM	1	1	20.02	19.65	19.94	19.95	20.01	21.00
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	23.58	23.39	23.53	23.58	23.77	24.50
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	23.69	23.47	23.68	23.87	24.01	25.00
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	24.19	24.04	24.08	24.13	24.06	25.00
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	23.91	23.79	24.02	24.09	24.15	25.00
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	23.88	23.77	23.93	24.04	24.10	25.00

n77(3700-3980MHz)(PC2)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	26.46	26.14	26.45	26.45	26.59	28.00
100		1	136	26.68	26.55	26.62	26.53	26.78	
100		1	271	26.58	26.75	26.55	26.93	26.77	
100		135	1	26.13	25.90	26.15	26.12	26.33	27.50
100		135	67	26.76	26.66	26.64	26.65	26.88	
100		135	136	26.17	26.19	26.14	26.27	26.39	
100		270	0	26.18	26.09	26.20	26.18	26.33	
100	DFT-s-OFDM QPSK	1	1	26.45	26.10	27.26	26.48	26.67	28.00
100		1	136	26.68	26.59	26.63	26.55	26.93	
100		1	271	26.58	26.77	26.69	27.05	26.79	
100		135	1	25.62	25.44	25.88	25.63	25.80	27.00
100		135	67	26.73	26.59	26.65	26.64	26.89	
100		135	136	25.65	25.69	25.66	25.73	25.85	
100		270	0	25.67	25.59	25.67	25.67	25.84	
100	DFT-s-OFDM 16QAM	1	1	25.35	25.03	25.36	25.38	25.50	26.50
100	DFT-s-OFDM 64QAM	1	1	23.79	23.44	23.80	23.71	23.72	24.50
100	DFT-s-OFDM 256QAM	1	1	21.83	21.53	21.85	21.91	21.92	22.50
100	CP-OFDM QPSK	1	1	24.91	24.61	25.01	24.97	25.08	26.00
100	CP-OFDM 16QAM	1	1	24.46	24.15	24.51	24.56	24.55	25.50
100	CP-OFDM 64QAM	1	1	22.87	22.54	22.95	22.97	23.11	24.00
100	CP-OFDM 256QAM	1	1	19.92	19.62	19.92	19.96	20.04	21.00
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	26.39	26.21	26.46	26.49	26.71	27.50
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	26.59	26.28	26.67	26.72	26.82	27.50
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	27.12	26.99	27.05	26.97	26.92	28.00
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	26.85	26.77	26.98	27.08	27.19	28.00
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	26.83	26.83	26.97	27.04	27.13	28.00

n78(3450-3550MHz)(PC2)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			23.04			25.00
100		1	136			23.62			
100		1	271			23.85			
100		135	1			23.33			24.00
100		135	67			23.58			
100		135	136			23.65			
100		270	0			23.55			
100	DFT-s-OFDM QPSK	1	1			24.12			25.00
100		1	136			23.52			
100		1	271			23.78			
100		135	1			23.29			24.00
100		135	67			23.61			
100		135	136			23.70			
100		270	0			23.59			
100	DFT-s-OFDM 16QAM	1	1			23.06			24.00
100	DFT-s-OFDM 64QAM	1	1			23.04			24.00
100	DFT-s-OFDM 256QAM	1	1			21.44			22.00
100	CP-OFDM QPSK	1	1			22.99			23.50
100	CP-OFDM 16QAM	1	1			23.06			24.00
100	CP-OFDM 64QAM	1	1			22.65			23.50
100	CP-OFDM 256QAM	1	1			19.48			20.00
Channel				633000	633167	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.51	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	23.07	23.02	23.05	23.10	23.19	24.00
Channel				632668	633001	633334	633667	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495.01	3500.01	3505.01	3510	
80	DFT-s-OFDM QPSK	1	1	23.13	22.91	23.16	23.27	23.38	24.00
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	23.09	23.21	23.17	23.37	23.53	24.50
Channel				632000	632667	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.01	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	23.25	23.27	23.43	23.59	23.66	24.50
Channel				631668	632501	633334	634167	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.51	3500.01	3512.51	3525	
50	DFT-s-OFDM QPSK	1	1	23.09	23.19	23.49	23.62	23.66	24.50
Channel				631334	636672	633334	634333	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.99	3529.98	
40	DFT-s-OFDM QPSK	1	1	23.53	23.59	23.83	23.92	24.09	25.00
Channel				631000	632167	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.51	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	23.33	23.68	23.93	23.90	24.06	25.00
Channel				630668	632001	633334	634667	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480.01	3500.01	3520.01	3540	
20	DFT-s-OFDM QPSK	1	1	23.51	23.64	23.82	23.93	24.08	25.00

n78(3450-3550MHz)(PC2)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			26.02			28.00
100		1	136			26.57			
100		1	271			26.80			
100		135	1			25.87			27.50
100		135	67			26.66			
100		135	136			26.20			
100		270	0			26.07			
100	DFT-s-OFDM QPSK	1	1			27.06			28.00
100		1	136			26.58			
100		1	271			26.83			
100		135	1			26.66			27.50
100		135	67			26.62			
100		135	136			25.72			
100		270	0			25.55			
100	DFT-s-OFDM 16QAM	1	1			25.06			26.00
100	DFT-s-OFDM 64QAM	1	1			23.55			24.50
100	DFT-s-OFDM 256QAM	1	1			21.54			22.50
100	CP-OFDM QPSK	1	1			24.60			25.50
100	CP-OFDM 16QAM	1	1			24.03			25.00
100	CP-OFDM 64QAM	1	1			22.64			23.50
100	CP-OFDM 256QAM	1	1			19.53			20.50
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	26.02	26.06	26.15	26.14	26.14	27.00
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	26.06	26.06	26.17	26.30	26.26	27.00
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	26.11	26.25	26.29	26.39	26.54	27.50
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	26.26	26.31	26.49	26.62	26.64	27.50
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	16.67	26.30	26.46	26.67	26.64	27.50
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	26.66	26.69	26.87	26.99	27.05	28.00
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	26.52	26.77	26.85	27.02	27.09	28.00
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	26.56	26.66	26.80	27.00	27.05	28.00

n78(3700-3800MHz)(PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			23.44			25
100		1	136			23.68			
100		1	271			23.55			
100		135	1			23.63			24.5
100		135	67			23.68			
100		135	136			23.62			
100		270	0			23.65			
100	DFT-s-OFDM QPSK	1	1			24.40			25
100		1	136			23.68			
100		1	271			23.47			
100		135	1			23.60			24.5
100		135	67			23.69			
100		135	136			23.59			
100		270	0			23.65			
100	DFT-s-OFDM 16QAM	1	1			23.55			24.50
100	DFT-s-OFDM 64QAM	1	1			23.45			24.00
100	DFT-s-OFDM 256QAM	1	1			21.76			22.50
100	CP-OFDM QPSK	1	1			23.41			24.00
100	CP-OFDM 16QAM	1	1			23.41			24.00
100	CP-OFDM 64QAM	1	1			22.98			23.50
100	CP-OFDM 256QAM	1	1			19.91			20.50
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	23.39	23.43	23.50	23.54	23.55	24.50
Channel				649334	649667	650000	650333	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3745.01	3750	3754.99	3759.99	
80	DFT-s-OFDM QPSK	1	1	23.45	23.53	23.44	23.32	23.59	24.50
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	23.37	23.60	23.42	23.51	23.54	24.50
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	23.60	23.52	23.63	23.58	23.75	24.50
Channel				648334	649167	650000	650833	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.51	3750	3762.49	3774.99	
50	DFT-s-OFDM QPSK	1	1	23.56	23.55	23.63	23.80	23.95	24.50
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	24.01	24.01	24.15	24.12	24.38	25.00
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	23.79	24.00	24.05	24.16	24.26	25.00
Channel				647334	648667	650000	651333	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3730.01	3750	3769.99	3789.99	

n78(3700-3800MHz)(PC2)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			26.46			28.00
100		1	136			26.68			
100		1	271			26.56			
100		135	1			26.14			27.50
100		135	67			26.70			
100		135	136			26.18			
100		270	0			26.18			
100	DFT-s-OFDM QPSK	1	1			27.40			28.00
100		1	136			26.71			
100		1	271			26.57			
100		135	1			26.60			27.50
100		135	67			26.71			
100		135	136			25.68			
100		270	0			25.67			
100	DFT-s-OFDM 16QAM	1	1			25.27			26.00
100	DFT-s-OFDM 64QAM	1	1			23.65			24.50
100	DFT-s-OFDM 256QAM	1	1			21.77			22.50
100	CP-OFDM QPSK	1	1			25.02			26.00
100	CP-OFDM 16QAM	1	1			24.40			25.00
100	CP-OFDM 64QAM	1	1			22.83			23.50
100	CP-OFDM 256QAM	1	1			19.84			20.50
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	26.37	26.32	26.44	26.46	26.58	27.50
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	26.38	26.57	26.46	26.37	26.56	27.50
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	26.44	26.50	26.60	26.52	26.49	27.50
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	26.52	26.53	26.60	26.61	26.77	27.50
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	26.53	26.53	26.63	26.80	26.91	27.50
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	27.01	26.96	27.13	27.11	27.26	28.00
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	26.80	26.99	27.01	27.13	27.25	28.00
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	26.82	26.97	26.99	27.12	27.10	28.00

CA_41C PC2 FCC											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	25.37	26.00
40620	40529	40712	QPSK	1	0	0	0	1	0	25.27	26.00
41490	41292	41490	QPSK	1	0	0	0	1	0	25.23	26.00
39750	39750	39948	16QAM	1	0	0	0	1	0	25.00	25.50
40620	40529	40712	16QAM	1	0	0	0	1	0	24.93	25.50
41490	41292	41490	16QAM	1	0	0	0	1	0	24.82	25.50
39750	39750	39948	64QAM	1	0	0	0	1	0	24.84	25.50
40620	40529	40712	64QAM	1	0	0	0	1	0	24.78	25.50
41490	41292	41490	64QAM	1	0	0	0	1	0	24.76	25.50
39750	39750	39948	256QAM	1	0	0	0	1	0	24.72	25.50
40620	40529	40712	256QAM	1	0	0	0	1	0	24.68	25.50
41490	41292	41490	256QAM	1	0	0	0	1	0	24.59	25.50
39750	39750	39948	QPSK	50	0	0	0	1	0	24.38	25.00
40620	40529	40712	QPSK	50	0	0	0	1	0	24.21	25.00
41490	41292	41490	QPSK	50	0	0	0	1	0	24.33	25.00

CA_41C PC3 FCC											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	21.87	22.50
40620	40529	40712	QPSK	1	0	0	0	1	0	21.77	22.50
41490	41292	41490	QPSK	1	0	0	0	1	0	21.73	22.50
39750	39750	39948	16QAM	1	0	0	0	1	0	21.50	22.00
40620	40529	40712	16QAM	1	0	0	0	1	0	21.43	22.00
41490	41292	41490	16QAM	1	0	0	0	1	0	21.32	22.00
39750	39750	39948	64QAM	1	0	0	0	1	0	21.34	22.00
40620	40529	40712	64QAM	1	0	0	0	1	0	21.28	22.00
41490	41292	41490	64QAM	1	0	0	0	1	0	21.26	22.00
39750	39750	39948	256QAM	1	0	0	0	1	0	21.22	22.00
40620	40529	40712	256QAM	1	0	0	0	1	0	21.18	22.00
41490	41292	41490	256QAM	1	0	0	0	1	0	21.09	22.00
39750	39750	39948	QPSK	50	0	0	0	1	0	20.88	21.50
40620	40529	40712	QPSK	50	0	0	0	1	0	20.71	21.50
41490	41292	41490	QPSK	50	0	0	0	1	0	20.83	21.50

CA_48C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	20.33	21.00
55990	55891	56089	QPSK	1	0	0	0	1	0	20.38	21.00
56640	56442	56640	QPSK	1	0	0	0	1	0	20.29	21.00
55340	55340	55538	16QAM	1	0	0	0	1	0	20.27	21.00
55990	55891	56089	16QAM	1	0	0	0	1	0	20.33	21.00
56640	56442	56640	16QAM	1	0	0	0	1	0	20.25	21.00
55340	55340	55538	64QAM	1	0	0	0	1	0	20.21	21.00
55990	55891	56089	64QAM	1	0	0	0	1	0	20.22	21.00
56640	56442	56640	64QAM	1	0	0	0	1	0	20.19	21.00
55340	55340	55538	256QAM	1	0	0	0	1	0	19.86	20.50
55990	55891	56089	256QAM	1	0	0	0	1	0	19.84	20.50
56640	56442	56640	256QAM	1	0	0	0	1	0	19.91	20.50
55340	55340	55538	QPSK	50	0	0	0	1	0	18.86	19.50
55990	55891	56089	QPSK	50	0	0	0	1	0	18.93	19.50
56640	56442	56640	QPSK	50	0	0	0	1	0	18.88	19.50

CA_66B											
Combination:10MHz+10MHz(50RB+50RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132072	132022	132121	QPSK	1	0	0	0	1	0	22.11	23.00
132322	132373	132472	QPSK	1	0	0	0	1	0	22.35	23.00
132572	132523	132622	QPSK	1	0	0	0	1	0	22.20	23.00
132072	132022	132121	16QAM	1	0	0	0	1	0	21.85	22.50
132322	132373	132472	16QAM	1	0	0	0	1	0	22.09	23.00
132572	132523	132622	16QAM	1	0	0	0	1	0	21.94	22.50
132072	132022	132121	64QAM	1	0	0	0	1	0	21.69	22.50
132322	132373	132472	64QAM	1	0	0	0	1	0	21.93	22.50
132572	132523	132622	64QAM	1	0	0	0	1	0	21.78	22.50
132072	132022	132121	256QAM	1	0	0	0	1	0	21.58	22.50
132322	132373	132472	256QAM	1	0	0	0	1	0	21.82	22.50
132572	132523	132622	256QAM	1	0	0	0	1	0	21.67	22.50
132072	132022	132121	QPSK	50	0	0	0	1	0	21.19	22.00
132322	132373	132472	QPSK	50	0	0	0	1	0	21.26	22.00
132572	132523	132622	QPSK	50	0	0	0	1	0	21.20	22.00

CA_66C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132072	132072	132270	QPSK	1	0	0	0	1	0	22.18	23.00
132322	132323	132521	QPSK	1	0	0	0	1	0	22.22	23.00
132572	132374	132572	QPSK	1	0	0	0	1	0	22.27	23.00
132072	132072	132270	16QAM	1	0	0	0	1	0	22.06	23.00
132322	132323	132521	16QAM	1	0	0	0	1	0	22.09	23.00
132572	132374	132572	16QAM	1	0	0	0	1	0	22.16	23.00
132072	132072	132270	64QAM	1	0	0	0	1	0	21.97	23.00
132322	132323	132521	64QAM	1	0	0	0	1	0	22.00	23.00
132572	132374	132572	64QAM	1	0	0	0	1	0	22.07	23.00
132072	132072	132270	256QAM	1	0	0	0	1	0	21.89	23.00
132322	132323	132521	256QAM	1	0	0	0	1	0	21.92	23.00
132572	132374	132572	256QAM	1	0	0	0	1	0	21.99	23.00
132072	132072	132270	QPSK	50	0	0	0	1	0	21.14	22.00
132322	132323	132521	QPSK	50	0	0	0	1	0	21.18	22.00
132572	132374	132572	QPSK	50	0	0	0	1	0	21.26	22.00

2CC LTE Uplink												
Configure	CA Configuration	PCC					SCC				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Measured Power(dBm)	Tune-up limit(dBm)
Inter-band	CA_2A-4A	2	20	18700	1860	QPSK/1#0	4	20	20300	1745	22.34	23
	CA_2A-5A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	21.86	22.5
	CA_2A-7A	2	20	18700	1860	QPSK/1#0	7	20	21350	2560	15.17	16
	CA_2A-12A	2	20	18700	1860	QPSK/1#0	12	5	23155	713.5	21.98	23
	CA_2A-13A	2	20	18700	1860	QPSK/1#0	13	10	23230	782	21.87	23
	CA_2A-66A	2	20	18700	1860	QPSK/1#0	66	20	132572	1770	22.28	23
	CA_2A-71A	2	20	18700	1860	QPSK/1#0	71	20	133372	688	22.14	23
	CA_4A-5A	4	20	20050	1720	QPSK/1#0	5	10	20600	844	21.68	22.5
	CA_4A-7A	4	20	20050	1720	QPSK/1#0	7	20	21350	2560	14.48	16.5
	CA_4A-12A	4	20	20050	1720	QPSK/1#0	12	5	23155	713.5	21.82	22.5
	CA_4A-13A	4	20	20050	1720	QPSK/1#0	13	10	23230	782	21.67	22.5
	CA_4A-71A	4	20	20050	1720	QPSK/1#0	71	20	133372	688	22.01	23
	CA_5A-7A	5	10	20450	829	QPSK/1#0	7	20	21350	2560	23.27	24
	CA_5A-66A	5	10	20450	829	QPSK/1#0	66	20	132572	1770	23.14	24
	CA_7A-12A	7	20	20850	2510	QPSK/1#0	12	5	23155	713.5	20.65	21.5
	CA_12A-66A	12	5	23035	701.5	QPSK/1#0	66	20	132572	1770	22.08	23
	CA_13A-66A	13	10	23230	782	QPSK/1#0	66	20	132572	1770	21.95	22.5
	CA_66A-71A	66	20	132072	1720	QPSK/1#0	71	20	133372	688	21.85	22.5

2CC LTE Downlink											
CA Configuration	PCC					SCC				Power	
	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
CA_12A-46A	12	10	23060	704	QPSK/1#0	46	20	54340	5905	20.78	22.96
CA_12A-48A	12	10	23060	704	QPSK/1#0	48	20	56640	3690	20.84	22.96
CA_2A-29A	2	10	18900	1880	QPSK/1#0	29	10	9720	723	20.19	22.81
CA_2A-71A	2	10	18900	1880	QPSK/1#0	71	10	133297	680.5	20.37	22.81
CA_41A-41A	41	20	39750	2506	QPSK/1#0	41	20	41490	2680	19.57	22.9
CA_41C	41	20	40521	2583.1	QPSK/1#0	41	20	40719	2602.9	19.82	22.9
CA_48A-71A	48	20	55340	3560	QPSK/1#0	71	20	133322	683	20.58	22.23
CA_4A-12A	4	10	20175	1732.5	QPSK/1#0	12	10	23130	711	21.67	22.85
CA_4A-13A	4	10	20175	1732.5	QPSK/1#0	13	20	23230	782	21.76	22.85
CA_4A-29A	4	10	20175	1732.5	QPSK/1#0	29	10	9720	723	21.54	22.85
CA_4A-48A	4	20	20050	1720	QPSK/1#0	48	20	56640	3690	21.7	22.85
CA_4A-5A	4	10	20175	1732.5	QPSK/1#0	5	10	20450	829	21.56	22.85
CA_4A-71A	4	10	20175	1732.5	QPSK/1#0	71	10	133297	680.5	21.47	22.85
CA_66A-71A	66	20	132422	1755	QPSK/1#0	71	10	133297	680.5	21.77	22.98
CA_66B	66	10	132373	1750.1	QPSK/1#0	66	10	132472	1760	21.82	22.98
CA_7A-46A	7	10	21100	2535	QPSK/1#0	46	20	50690	5540	20.37	23.09
CA_7C	7	20	21001	2525.1	QPSK/1#0	7	20	21199	2544.9	20.12	23.09

3CC LTE Downlink															
CA Configuration	PCC					SCC1				SCC2				Power	
	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
CA_12A-48C	12	10	23060	704	QPSK/1#0	48	20	56442	3670.2	48	20	56640	3690	22.18	22.96
CA_12A-66A-66A	12	10	23060	704	QPSK/1#0	66	20	66886	2155	66	20	67236	2190	22.03	22.96
CA_12A-66C	12	10	23060	704	QPSK/1#0	66	20	67038	2170.2	66	20	67236	2190	22.19	22.96
CA_12B-66A	12	5	23058	703.8	QPSK/1#0	12	10	23130	711	66	20	67236	2190	21.03	22.96
CA_13A-48A-66A	13	10	23230	782	QPSK/1#0	48	20	56640	3690	66	20	67236	2190	21.92	23.11
CA_13A-66A-66A	13	10	23230	782	QPSK/1#0	66	20	66886	2155	66	20	67236	2190	22.2	23.11
CA_13A-66B	13	10	23230	782	QPSK/1#0	66	10	67187	2185.1	66	10	67286	2195	22.17	23.11
CA_13A-66C	13	10	23230	782	QPSK/1#0	66	20	67038	2170.2	66	20	67236	2190	22.38	23.11
CA_2A-13A-48A	2	20	18700	1860	QPSK/1#0	13	10	23230	782	48	20	56640	3690	22.63	22.81
CA_2A-2A-46A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	46	20	54340	5905	22.66	22.81
CA_2A-2A-71A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	71	20	133297	680.5	22.4	22.81
CA_2A-46A-46A	2	20	18700	1860	QPSK/1#0	46	20	46890	5160	46	20	54340	5905	22.79	22.81
CA_2A-46A-48A	2	20	18700	1860	QPSK/1#0	46	20	54340	5905	48	20	56089	3634.9	22.45	22.81
CA_2A-46A-66A	2	20	18700	1860	QPSK/1#0	46	20	54340	5905	66	20	67236	2190	22.69	22.81
CA_2A-46C	2	20	18700	1860	QPSK/1#0	46	20	54142	5885.2	46	20	54340	5905	22.88	22.81
CA_2A-48A-48A	2	20	18700	1860	QPSK/1#0	48	20	55340	3560	48	20	56640	3690	22.63	22.81
CA_2A-48A-66A	2	20	18700	1860	QPSK/1#0	48	20	56089	3634.9	66	20	67236	2190	22.67	22.81
CA_2A-4A-12A	2	20	18700	1860	QPSK/1#0	4	20	20300	2145	12	10	23130	711	22.42	22.81
CA_2A-4A-13A	2	20	18700	1860	QPSK/1#0	4	20	20300	2145	13	10	23230	782	21.29	22.81
CA_2A-4A-29A	2	20	18700	1860	QPSK/1#0	4	20	20300	2145	29	10	9720	723	22.38	22.81
CA_2A-4A-5A	2	20	18700	1860	QPSK/1#0	4	20	20300	2145	5	10	20600	844	22.31	22.81
CA_2A-4A-71A	2	20	18700	1860	QPSK/1#0	4	20	20300	2145	71	20	133297	680.5	22.45	22.81
CA_2A-5A-46A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	46	20	54340	5905	22.57	22.81
CA_2A-5A-48A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	48	20	56089	3634.9	22.53	22.81
CA_2A-5A-7A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	7	20	21350	2560	22.4	22.81
CA_2A-66A-71A	2	20	18700	1860	QPSK/1#0	66	20	67236	2190	71	20	133297	680.5	22.36	22.81
CA_2A-66B	2	20	18700	1860	QPSK/1#0	66	10	67187	2185.1	66	10	67286	2195	22.19	22.81
CA_2A-7A-12A	2	20	18700	1860	QPSK/1#0	7	20	21350	2560	12	10	23130	711	22.01	22.81
CA_2A-7A-29A	2	20	18700	1860	QPSK/1#0	7	20	21350	2560	29	10	9720	723	22.55	22.81
CA_2A-7C	2	20	18700	1860	QPSK/1#0	7	20	21001	2525.1	7	20	21199	2544.9	22.38	22.81
CA_41D	41	20	40437	2574.7	QPSK/1#0	41	20	40620	2593	41	20	40803	2611.3	21.95	22.9
CA_48A-48A-71A	48	20	55340	3560	QPSK/1#0	48	20	56640	3690	71	20	133297	680.5	20.64	22.23
CA_48A-66A-66A	48	20	55340	3560	QPSK/1#0	66	20	66886	2155	66	20	67236	2190	22.16	22.23
CA_48A-66B	48	20	55340	3560	QPSK/1#0	66	10	67187	2185.1	66	10	67286	2195	22.22	22.23
CA_48A-66C	48	20	55340	3560	QPSK/1#0	66	20	67038	2170.2	66	20	67236	2190	21.81	22.23
CA_48C-71A	48	20	56442	3670.2	QPSK/1#0	48	20	56640	3690	71	20	133297	680.5	22.36	22.85
CA_4A-12B	4	20	20050	1720	QPSK/1#0	12	5	23058	703.8	12	10	23130	711	22.25	22.85
CA_4A-46A-46A	4	20	20050	1720	QPSK/1#0	46	20	46890	5160	46	20	54340	5905	22.65	22.85
CA_4A-46C	4	20	20050	1720	QPSK/1#0	46	20	54142	5885.2	46	20	54340	5905	22.62	22.85
CA_4A-48C	4	20	20050	1720	QPSK/1#0	48	20	56442	3670.2	48	20	56640	3690	22.56	22.85
CA_4A-4A-12A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	12	10	23130	711	22.26	22.85
CA_4A-4A-13A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	13	10	23230	782	22.09	22.85
CA_4A-4A-5A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	5	10	20600	844	22.39	22.85
CA_4A-4A-71A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	71	20	133297	680.5	22.18	22.85
CA_4A-4A-7A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	7	20	21350	2560	22.19	22.85
CA_4A-7A-12A	4	20	20050	1720	QPSK/1#0	7	20	21350	2560	12	10	23130	711	22.37	22.85
CA_4A-7A-7A	4	20	20050	1720	QPSK/1#0	7	20	20850	2510	7	20	21350	2560	22.22	22.85
CA_4A-7C	4	20	20050	1720	QPSK/1#0	7	20	21152	2540.2	7	20	21350	2560	22.18	22.85
CA_5A-46A-66A	5	10	20450	829	QPSK/1#0	46	20	54340	5905	66	20	67236	2190	22.81	23.09
CA_5A-66A-66A	5	10	20450	829	QPSK/1#0	66	20	66886	2155	66	20	67236	2190	20.69	23.09
CA_5A-66B	5	10	20450	829	QPSK/1#0	66	10	67187	2185.1	66	10	67286	2195	20.74	23.09
CA_5A-66C	5	10	20450	829	QPSK/1#0	66	20	67038	2170.2	66	20	67236	2190	21.08	23.09
CA_5A-7A-7A	5	10	20450	829	QPSK/1#0	7	20	20850	2510	7	20	21350	2560	21.16	23.09
CA_66A-66A-66A	66	20	132072	1720	QPSK/1#0	66	20	66886	2155	66	20	67236	2190	20.71	22.98
CA_66A-66A-71A	66	20	132072	1720	QPSK/1#0	66	20	66886	2155	71	20	133297	680.5	20.76	22.98
CA_66A-66C	66	20	132072	1720	QPSK/1#0	66	20	67038	2170.2	66	20	67236	2190	20.78	22.98
CA_66C-71A	66	20	132072	1720	QPSK/1#0	66	20	132270	1739.8	71	20	133297	680.5	20.83	22.98
CA_7A-12A-66A	7	20	20850	2510	QPSK/1#0	12	10	23130	711	66	20	67236	2190	22.14	23.09
CA_7A-29A-66A	7	20	20850	2510	QPSK/1#0	29	10	9720	723	66	20	67236	2190	22.35	23.09
CA_7A-46C	7	20	20850	2510	QPSK/1#0	46	20	46890	5160	46	20	54340	5905	22.62	23.09
CA_7A-66A-66A	7	20	20850	2510	QPSK/1#0	66	20	66886	2155	66	20	67236	2190	21.89	23.09

4CC LTE Downlink																				
CA Configuration	PCC					SCC1				SCC2				SCC3				Power	
	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
CA_12A-46D	12	10	23060	704	QPSK/1#0	46	20	53942	5865.2	46	20	54140	5885	46	20	54338	5904.8	22.63	22.96
CA_13A-48A-66B	13	10	23230	782	QPSK/1#0	48	10	56640	3690	66	10	67187	2185.1	66	10	67286	2195	23.07	23.11
CA_13A-48A-66C	13	10	23230	782	QPSK/1#0	48	10	56640	3690	66	20	67038	2170.2	66	10	67236	2190	23.23	23.11
CA_13A-48C-66A	13	10	23230	782	QPSK/1#0	48	20	56442	3670.2	48	20	56640	3690	66	20	67236	2190	23.14	23.11
CA_2A-12A-66A-66A	2	20	18700	1860	QPSK/1#0	12	10	23060	704	66	20	66886	2155	66	20	67236	2190	22.87	22.96
CA_2A-12A-66C	2	20	18700	1860	QPSK/1#0	12	10	23060	704	66	20	67038	2170.2	66	20	67236	2190	22.81	22.81
CA_2A-13A-48C	2	20	18700	1860	QPSK/1#0	13	10	23230	782	48	20	56442	3670.2	48	20	56640	3690	22.16	22.81
CA_2A-13A-66A-66A	2	20	18700	1860	QPSK/1#0	13	10	23230	782	66	20	66886	2155	66	20	67236	2190	22.73	22.81
CA_2A-13A-66B	2	20	18700	1860	QPSK/1#0	13	10	23230	782	66	10	67187	2185.1	66	10	67286	2195	22.89	22.81
CA_2A-13A-66C	2	20	18700	1860	QPSK/1#0	13	10	23230	782	66	20	67038	2170.2	66	20	67236	2190	22.85	22.81
CA_2A-2A-46C	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	46	20	54142	5885.2	46	20	54340	5905	22.92	22.81
CA_2A-2A-4A-12A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	4	20	20300	1745	12	10	23060	704	22.75	22.81
CA_2A-2A-4A-4A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	4	20	20050	1720	4	20	20300	1745	22.89	22.81
CA_2A-2A-4A-5A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	4	20	20300	1745	5	10	20600	844	22.71	22.81
CA_2A-2A-4A-71A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	4	20	20300	1745	71	20	133297	680.5	22.92	22.81
CA_2A-2A-5A-7A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	5	10	20600	844	7	20	21350	2560	22.93	22.81
CA_2A-2A-66A-66A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	66	20	66886	2155	66	20	67236	2190	22.88	22.81
CA_2A-2A-66A-71A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	66	20	67236	2190	71	20	133297	680.5	22.65	22.81
CA_2A-2A-66B	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	66	10	67187	2185.1	66	10	67286	2195	22.88	22.81
CA_2A-2A-66C	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	66	20	67038	2170.2	66	20	67236	2190	22.82	22.81
CA_2A-2A-7A-12A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	7	20	21350	2560	12	10	23060	704	22.85	22.81
CA_2A-2A-7A-66A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	7	20	21350	2560	66	20	67236	2190	22.86	22.81
CA_2A-46A-46C	2	20	18700	1860	QPSK/1#0	46	20	46890	5160	46	20	54142	5885.2	46	20	54340	5905	22.95	22.81
CA_2A-46A-48C	2	20	18700	1860	QPSK/1#0	46	20	46890	5160	48	20	55891	3615.1	48	20	56089	3634.9	22.87	22.81

CA_2A-48A-48C	2	20	18700	1860	QPSK/1#0	48	20	55340	3560	48	20	55891	3615.1	48	20	56089	3634.9	22.85	22.81
CA_2A-48C-66A	2	20	18700	1860	QPSK/1#0	48	20	55891	3615.1	48	20	56089	3634.9	66	20	67236	2190	22.79	22.81
CA_2A-4A-12B	2	20	18700	1860	QPSK/1#0	4	20	20300	1745	12	5	23048	702.8	12	10	23120	710	22.82	22.81
CA_2A-4A-4A-12A	2	20	18700	1860	QPSK/1#0	4	20	20050	1720	4	20	20300	1745	12	10	23060	704	22.92	22.81
CA_2A-4A-4A-5A	2	20	18700	1860	QPSK/1#0	4	20	20050	1720	4	20	20300	1745	5	10	20600	844	22.95	22.81
CA_2A-4A-7A-7A	2	20	18700	1860	QPSK/1#0	4	20	20300	1745	7	20	20850	2510	7	20	21350	2560	23.01	22.81
CA_2A-4A-7C	2	20	18700	1860	QPSK/1#0	4	20	20300	1745	7	20	21001	2525.1	7	20	21199	2544.9	23.08	22.81
CA_2A-5A-48C	2	20	18700	1860	QPSK/1#0	5	10	20600	844	48	20	55891	3615.1	48	20	56089	3634.9	22.88	22.81
CA_2A-5A-66A-66A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	66	20	66886	2155	66	20	67236	2190	23.1	22.81
CA_2A-5A-66B	2	20	18700	1860	QPSK/1#0	5	10	20600	844	66	10	67187	2185.1	66	10	67286	2195	22.84	22.81
CA_2A-5A-66C	2	20	18700	1860	QPSK/1#0	5	10	20600	844	66	20	67038	2170.2	66	20	67236	2190	22.79	22.81
CA_2A-66A-66A-66A	2	20	18700	1860	QPSK/1#0	66	20	132072	1720	66	20	66886	2155	66	20	67236	2190	22.85	22.81
CA_2A-66A-66A-71A	2	20	18700	1860	QPSK/1#0	66	20	66886	2155	66	20	67236	2190	71	20	133297	680.5	22.96	22.81
CA_2A-66C-71A	2	20	18700	1860	QPSK/1#0	66	20	67038	2170.2	66	20	67236	2190	71	20	133297	680.5	22.98	22.81
CA_2A-7A-66A-66A	2	20	18700	1860	QPSK/1#0	7	20	21350	2560	66	20	66886	2155	66	20	67236	2190	22.91	22.81
CA_2A-7A-7A-29A	2	20	18700	1860	QPSK/1#0	7	20	20850	2510	7	20	21350	2560	29	10	9720	723	22.96	22.81
CA_2C-66A-66A	2	20	18801	1870.1	QPSK/1#0	2	20	18999	1889.9	66	20	66886	2155	66	20	67236	2190	22.99	22.81
CA_48A-48A-66A-66A	48	20	55340	3560	QPSK/1#0	48	20	56640	3690	66	20	66886	2155	66	20	67236	2190	21.78	22.23
CA_48A-48C-66A	48	20	55340	3560	QPSK/1#0	48	20	55891	3615.1	48	20	56089	3634.9	66	20	67236	2190	21.63	22.23
CA_48C-66A-66A	48	20	55891	3615.1	QPSK/1#0	48	20	56089	3634.9	66	20	66886	2155	66	20	67236	2190	21.41	22.23
CA_48C-66B	48	20	55891	3615.1	QPSK/1#0	48	20	56089	3634.9	66	10	67187	2185.1	66	10	67286	2195	22.12	22.23
CA_48C-66C	48	20	55891	3615.1	QPSK/1#0	48	20	56089	3634.9	66	20	67038	2170.2	66	20	67236	2190	21.73	22.23
CA_48D-66A	48	20	56244	3650.4	QPSK/1#0	48	20	56442	3670.2	48	20	56640	3690	66	20	67236	2190	21.61	22.23
CA_4A-46D	4	20	20050	1720	QPSK/1#0	46	20	53942	5865.2	46	20	54140	5885	46	20	54338	5904.8	22.89	22.85
CA_4A-48D	4	20	20050	1720	QPSK/1#0	48	20	56244	3650.4	48	20	56442	3670.2	48	20	56640	3690	22.79	22.85
CA_4A-4A-12B	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	12	5	23048	702.8	12	10	23120	710	22.68	22.85
CA_5A-48A-66A-66A	5	10	20450	829	QPSK/1#0	48	20	55640	3690	66	20	66886	2155	66	20	67236	2190	22.73	23.09
CA_5A-48C-66A	5	10	20450	829	QPSK/1#0	48	20	55891	3615.1	48	20	56089	3634.9	66	20	67236	2190	22.82	23.09
CA_5A-7A-66A-66A	5	10	20450	829	QPSK/1#0	7	20	21350	2560	66	20	66886	2155	66	20	67236	2190	22.92	23.09
CA_7A-46D	7	20	20850	2510	QPSK/1#0	46	20	53942	5865.2	46	20	5414	5885	46	20	54338	5904.8	22.82	23.09
CA_7A-7A-66A-66A	7	20	20850	2510	QPSK/1#0	7	20	21350	2560	66	20	66886	2155	66	20	67236	2190	21.81	23.09

5CC LTE Downlink

CA Configuration	PCC					SCC1				SCC2				SCC3				SCC4				Power	
	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
CA_13A-48D-66A	13	10	23230	782	QPSK/1#0	48	20	55792	3605.2	48	20	55990	3625	48	20	56188	3644.8	66	20	67236	2190	22.72	23.11
CA_13A-48E	13	10	23230	782	QPSK/1#0	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	48	5	55853	3611.3	22.85	23.11
CA_2A-12B-66A-66A	2	20	18700	1860	QPSK/1#0	12	5	23048	702.8	12	10	23120	710	66	20	66886	2155	66	20	67236	2190	22.51	22.81
CA_2A-13A-48D	2	20	18700	1860	QPSK/1#0	13	10	23230	782	48	20	55792	3605.2	48	20	55990	3625	48	20	56188	3644.8	22.72	22.81
CA_2A-2A-12A-66A-66A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	12	10	23060	704	66	20	66886	2155	66	20	67236	2190	23.03	22.81
CA_2A-2A-12B-66A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	12	5	23048	702.8	12	10	23120	710	66	20	67236	2190	22.29	22.81
CA_2A-2A-13A-66A-66A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	13	10	23230	782	66	20	66886	2155	66	20	67236	2190	22.84	22.81
CA_2A-2A-46D	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	46	20	53942	5865.2	46	20	5414	5885	46	20	54338	5904.8	21.29	22.81
CA_2A-2A-5A-66A-66A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	5	10	20600	844	66	20	66886	2155	66	20	67236	2190	22.59	22.81
CA_2A-2A-5A-66B	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	5	10	20600	844	66	10	67187	2185.1	66	10	67286	2195	22.8	22.81
CA_2A-2A-5A-66C	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	5	10	20600	844	66	20	67038	2170.2	66	20	67236	2190	22.47	22.81
CA_2A-46D-66A	2	20	18700	1860	QPSK/1#0	46	20	53942	5865.2	46	20	5414	5885	46	20	54338	5904.8	66	20	67236	2190	22.76	22.81
CA_2A-48C-48C	2	20	18700	1860	QPSK/1#0	48	20	55891	3615.1	48	20	56089	3634.9	48	20	55891	3615.1	48	20	56089	3634.9	22.41	22.81
CA_2A-48D-66A	2	20	18700	1860	QPSK/1#0	48	20	55792	3605.2	48	20	55990	3625	48	20	56188	3644.8	66	20	67236	2190	23.16	22.81
CA_2A-48E	2	20	18700	1860	QPSK/1#0	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	48	5	55853	3611.3	22.63	22.81
CA_2A-5A-46D	2	20	18700	1860	QPSK/1#0	5	10	20600	844	46	20	53942	5865.2	46	20	5414	5885	46	20	54338	5904.8	22.17	22.81
CA_2A-5A-48D	2	20	18700	1860	QPSK/1#0	5	10	20600	844	48	20	55792	3605.2	48	20	55990	3625	48	20	56188	3644.8	22.23	22.81
CA_2A-7A-46D	2	20	18700	1860	QPSK/1#0	7	20	21350	2560	46	20	53942	5865.2	46	20	5414	5885	46	20	54338	5904.8	23.19	22.81
CA_2A-7A-7A-66A-66A	2	20	18700	1860	QPSK/1#0	7	20	20850	2510	7	20	21350	2560	66	20	66886	2155	66	20	67236	2190	22.56	22.81
CA_48C-48C-66A	48	20	55891	3615.1	QPSK/1#0	48	20	56089	3634.9	48	20	55891	3615.1	48	20	56089	3634.9	66	20	67236	2190	21.88	22.23
CA_48E-66A	48	20	55340	3560	QPSK/1#0	48	20	55538	3579.8	48	20	55736	3599.6	48	5	55853	3611.3	66	20	67236	2190	22.26	22.23
CA_4A-48E	4	20	20050	1720	QPSK/1#0	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	48	5	55853	3611.3	22.13	22.85
CA_5A-46D-66A	5	10	20450	829	QPSK/1#0	46	20	53942	5865.2	46	20	5414	5885	46	20	54338	5904.8	66	20	67236	2190	22.51	23.09
CA_5A-48D-66A	5	10	20450	829	QPSK/1#0	48	20	55792	3605.2	48	20	55990	3625	48	20	56188	3644.8	66	20	67236	2190	22.36	23.09
CA_5A-7A-46D	5	10	20450	829	QPSK/1#0	7	20	21350	2560	46	20	53942	5865.2	46	20	5414	5885	46	20	54338	5904.8	22.81	23.09
CA_7A-46E	7	20	20850	2510	QPSK/1#0	46	20	53740	5845	46	20	53941	5865.1	46	20	54142	5885.2	46	20	54340	5905	22.55	23.09
CA_7A-7A-46D	7	20	20850	2510	QPSK/1#0	7	20	21350	2560	46	20	53942	5865.2	46	20	5414	5885	46	20	54338	5904.8	22.36	23.09

5G NR DL 2CC LTE Downlink													
Configure	CA Configuration	PCC					SCC				Power		
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation /RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)	
Intra-band & Inter-band	CA_n2(2A)	n2A	20	388000	1940	QPSK/1#0	n2A	20	396000	1980	22.39	23.57	
	CA_n2A-n5A	n2A	20	396000	1980	QPSK/1#0	n5A	20	176300	881.5	21.89	23.57	
	CA_n2A-n7A	n2A	20	396000	1980	QPSK/1#0	n7A	20	531000	2655	22.03	23.57	
	CA_n2A-n41A	n2A	20	396000	1980	QPSK/1#0	n41A	100	518598	2592.99	22.08	23.57	
	CA_n2A-n48A	n2A	20	396000	1980	QPSK/1#0	n48A	100	641666	3624.99	22.29	23.57	
	CA_n2A-n66A	n2A	20	396000	1980	QPSK/1#0	n66A	30	431000	2515	22.42	23.57	
	CA_n2A-n77A	n2A	20	396000	1980	QPSK/1#0	n77A	100	650000	3750	22.09	23.57	
	CA_n2A-n78A	n2A	20	396000	1980	QPSK/1#0	n78A	100	636666	3549.99	22.33	23.57	
	CA_n5(2A)	n5A	20	175800	879	QPSK/1#0	n5A	20	176800	884	22.16	22.69	
	CA_n5B	n5A	20	175800	879	QPSK/1#0	n5A	20	176800	884	22.29	22.69	
	CA_n5A-n25A	n5A	20	176300	881.5	QPSK/1#0	n25A	20	392500	1962.5	22.33	22.69	
	CA_n5A-n48A	n5A	20	176300	881.5	QPSK/1#0	n48A	100	641666	3624.99	22.18	22.69	
	CA_n5A-n66A	n5A	20	176300	881.5	QPSK/1#0	n66A	30	431000	2515	21.76	22.69	
	CA_n5A-n77A	n5A	20	176300	881.5	QPSK/1#0	n77A	100	650000	3750	21.91	22.69	
	CA_n5A-n78A	n5A	20	176300	881.5	QPSK/1#0	n78A	100	636666	3549.99	22.03	22.69	
	CA_n7A(2A)	n7A	20	526000	2630	QPSK/1#0	n7A	20	536000	2680	22.71	22.97	
	CA_n7A-n25A	n7A	20	531000	2655	QPSK/1#0	n25A	20	392500	1962.5	22.36	22.97	
	CA_n7A-n66A	n7A	20	531000	2655	QPSK/1#0	n66A	30	431000	2515	22.11	22.97	
	CA_n7A-n77A	n7A	20	531000	2655	QPSK/1#0	n77A	100	650000	3750	22.46	22.97	
	CA_n7A-n78A	n7A	20	531000	2655	QPSK/1#0	n78A	100	636666	3549.99	22.39	22.97	
	CA_n13A-n25A	n13A	10	150200	751	QPSK/1#0	n7A	20	531000	2655	21.88	22.97	
	CA_n13A-n66A	n13A	10	150200	751	QPSK/1#0	n66A	30	431000	2515	22.71	22.97	
	CA_n13A-n77A	n13A	10	150200	751	QPSK/1#0	n77A	100	650000	3750	22.59	22.97	
	CA_n25(2A)	n25A	20	388000	1940	QPSK/1#0	n25A	20	397000	1985	23.05	23.66	
	CA_n25A-n29A	n25A	20	392500	1962.5	QPSK/1#0	n29A	10	144500	722.5	22.84	23.66	
	CA_n25A-n38A	n25A	20	392500	1962.5	QPSK/1#0	n38A	40	519000	2595	22.41	23.66	
	CA_n25A-n41A	n25A	20	392500	1962.5	QPSK/1#0	n41A	100	518598	2592.99	22.93	23.66	
	CA_n25A-n48A	n25A	20	392500	1962.5	QPSK/1#0	n48A	100	641666	3624.99	22.73	23.66	
	CA_n25A-n66A	n25A	20	392500	1962.5	QPSK/1#0	n66A	30	431000	2515	22.26	23.66	
	CA_n25A-n71A	n25A	20	392500	1962.5	QPSK/1#0	n71A	20	126900	634.5	22.37	23.66	
	CA_n25A-n77A	n25A	20	392500	1962.5	QPSK/1#0	n77A	100	650000	3750	22.43	23.66	
	CA_n25A-n78A	n25A	20	392500	1962.5	QPSK/1#0	n78A	100	636666	3549.99	22.57	23.66	
	CA_n38A-n66A	n38A	40	519000	2595	QPSK/1#0	n66A	30	431000	2515	22.71	23.87	
	CA_n38A-n78A	n38A	40	519000	2595	QPSK/1#0	n78A	100	636666	3549.99	22.29	23.87	
	CA_n41(2A)	n41A	40	518598	2592.99	QPSK/1#0	n41A	40	518598	2592.99	22.7	23.55	
	CA_n41A-n48A	n41A	40	518598	2592.99	QPSK/1#0	n48A	100	641666	3624.99	22.23	23.55	
	CA_n41A-n66A	n41A	40	518598	2592.99	QPSK/1#0	n66A	30	431000	2515	22.39	23.55	
	CA_n41A-n71A	n41A	40	518598	2592.99	QPSK/1#0	n71A	20	126900	634.5	22.12	23.55	
	CA_n41A-n77A	n41A	40	518598	2592.99	QPSK/1#0	n77A	100	650000	3750	22.41	23.55	
	CA_n41A-n78A	n41A	40	518598	2592.99	QPSK/1#0	n78A	100	636666	3549.99	22.81	23.55	
	CA_n48(2A)	n48A	40	641666	3624.99	QPSK/1#0	n48A	40	641666	3624.99	21.26	22.98	
	CA_n48A-n66A	n48A	40	641666	3624.99	QPSK/1#0	n66A	30	431000	2515	21.12	22.98	
	CA_n48A-n71A	n48A	40	641666	3624.99	QPSK/1#0	n71A	20	126900	634.5	21.39	22.98	
	CA_n66(2A)	n66A	20	424000	2120	QPSK/1#0	n66A	20	434000	2170	22.18	23.01	
	CA_n66B	n66B	10	423000	2115	QPSK/1#0	n66B	15	435000	2175	22.03	23.01	
	CA_n66A-n71A	n66A	20	424000	2120	QPSK/1#0	n71A	20	125400	617.46	22.36	23.01	
	CA_n66A-n77A	n66A	20	424000	2120	QPSK/1#0	n77A	100	650000	3750	21.84	23.01	
	CA_n66A-n78A	n66A	20	424000	2120	QPSK/1#0	n78A	100	636666	3549.99	22.21	23.01	
	CA_n71(2A)	n71A	20	125400	627	QPSK/1#0	n71A	20	128400	642	21.19	22.88	
	CA_n71B	n71B	20	126900	634.5	QPSK/1#0	n71B	20	128400	642	21.72	22.88	
	CA_n71A-n77A	n71A	20	125400	627	QPSK/1#0	n77A	100	650000	3750	22.26	22.88	
	CA_n71A-n78A	n71A	20	125400	627	QPSK/1#0	n78A	100	636666	3549.99	21.83	22.88	
	CA_n77(2A)	n77A	100	623334	3350.1	QPSK/1#0	n77A	100	676666	4149.99	22.06	23.99	
	CA_n77C	n78A	100	623334	3350.1	QPSK/1#0	n77A	100	676666	4149.99	22.33	23.99	
	CA_n78(2A)	n78A	100	623334	3350.1	QPSK/1#0	n78A	100	650000	3750	22.51	24.12	

2.4GHz WLAN ANT 1 (WIFI 1)

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 1	802.11b 1Mbps	CH 1	2412	17.42	18.50	18.50	99.17
		CH 7	2442	17.36	18.50	18.50	99.72
		CH 13	2472	15.86	16.50	15.50	99.58
	802.11g 6Mbps	CH 1	2412	15.98	16.00	17.00	99.34
		CH 7	2442	15.56	16.50	17.00	99.24
		CH 13	2472	11.26	12.00	17.00	99.24
	802.11n-HT20 MCS0	CH 1	2412	14.56	15.50	16.50	99.71
		CH 7	2442	14.59	15.50	16.50	99.71
		CH 13	2472	14.42	15.50	16.50	99.74
	802.11n-HT40 MCS0	CH 3	2422	14.21	15.50	16.00	99.24
		CH 7	2442	14.06	15.00	16.00	99.24
		CH 11	2462	14.33	15.50	16.00	99.20
	802.11ac-VHT20 MCS0	CH 1	2412	12.63	13.50	15.00	99.71
		CH 7	2442	12.99	13.50	15.00	99.74
		CH 13	2472	12.50	13.00	15.00	99.71
	802.11ac-VHT40 MCS0	CH 3	2422	12.53	13.00	14.50	98.99
		CH 7	2442	12.46	13.00	14.50	99.04
		CH 11	2462	12.39	13.00	14.50	98.99
	802.11ax-HEW20 MCS0 / RU242	CH 1	2412				
		CH 6	2437				
		CH 11	2462				
	802.11ax-HEW20 MCS0 / RU26	CH 1	2412	12.90	13.50	16.00	99.61
		CH 7	2442	13.64	14.50	16.00	
		CH 13	2472	12.52	13.00	16.00	
	802.11ax-HEW20 MCS0 / RU52	CH 1	2412	12.65	13.50	16.00	99.61
		CH 7	2442	13.49	14.00	16.00	99.57
		CH 13	2472	13.59	14.50	16.00	99.57
	802.11ax-HEW20 MCS0 / RU106	CH 1	2412	12.80	13.50	15.50	99.54
		CH 13	2472	13.47	14.00	15.50	99.58
	802.11ax-HEW40 MCS0 / RU26	CH 3	2422	12.67	13.50	15.00	99.61
		CH 7	2442	12.77	13.50	15.00	
		CH 11	2462	12.94	13.50	15.00	
	802.11ax-HEW40 MCS0 / RU52	CH 3	2422	12.47	13.00	15.00	99.61
		CH 7	2442	13.26	14.00	15.00	
		CH 11	2462	13.44	14.00	15.00	
	802.11ax-HEW40 MCS0 / RU106	CH 3	2422	12.41	13.00	15.00	99.58
		CH 7	2442	13.39	14.00	15.00	
		CH 11	2422	12.48	13.00	15.00	
	802.11ax-HEW40 MCS0 / RU242	CH 3	2422	12.57	13.50	15.00	99.27
		CH 11	2462	12.15	13.00	15.00	

2.4GHz WLAN ANT 2 (WIFI 2)

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 2	802.11b 1Mbps	CH 1	2412	17.76	18.50	18.50	99.16
		CH 7	2442	17.52	18.00	18.00	99.16
		CH 13	2472	15.46	16.00	15.50	99.17
	802.11g 6Mbps	CH 1	2412	15.25	16.00	17.00	99.24
		CH 7	2442	15.25	16.00	17.00	
		CH 13	2472	11.27	12.00	17.00	
	802.11n-HT20 MCS0	CH 1	2412	14.61	15.50	16.50	99.71
		CH 7	2442	14.64	15.50	16.00	
		CH 13	2472	14.27	15.00	16.50	
	802.11n-HT40 MCS0	CH 3	2422	14.79	15.50	16.00	99.20
		CH 7	2442	14.26	15.00	16.00	99.24
		CH 11	2462	14.19	15.50	16.00	99.20
	802.11ac-VHT20 MCS0	CH 1	2412	12.48	13.00	15.00	99.71
		CH 7	2442	12.48	13.00	15.00	99.71
		CH 13	2472	12.19	13.00	15.00	99.74
	802.11ac-VHT40 MCS0	CH 3	2422	12.85	13.50	14.50	99.04
		CH 7	2442	12.47	13.00	14.50	98.99
		CH 11	2462	12.95	13.50	14.50	98.99
	802.11ax-HEW20 MCS0 / RU242	CH 1	2412				
		CH 6	2437				
		CH 11	2462				
	802.11ax-HEW20 MCS0 / RU26	CH 1	2412	12.85	13.50	16.00	99.61
		CH 7	2442	12.57	13.50	16.00	
		CH 13	2472	12.46	13.00	16.00	
	802.11ax-HEW20 MCS0 / RU52	CH 1	2412	12.61	13.50	16.00	99.57
		CH 7	2442	12.72	13.50	16.00	99.61
		CH 13	2472	12.44	13.00	16.00	99.57
	802.11ax-HEW20 MCS0 / RU106	CH 1	2412	12.62	13.50	15.50	99.54
		CH 13	2472	12.57	13.00	15.50	99.58
	802.11ax-HEW40 MCS0 / RU26	CH 3	2422	12.04	12.50	15.00	99.61
		CH 7	2442	12.28	13.00	15.00	
		CH 11	2462	12.44	13.00	15.00	
	802.11ax-HEW40 MCS0 / RU52	CH 3	2422	12.00	12.50	15.00	99.61
		CH 7	2442	12.51	13.00	15.00	
		CH 11	2462	12.74	13.50	15.00	
	802.11ax-HEW40 MCS0 / RU106	CH 3	2422	12.16	13.00	15.00	99.54
		CH 7	2462	12.56	13.50	15.00	99.58
		CH 11	2422	12.19	13.00	15.00	99.58
	802.11ax-HEW40 MCS0 / RU242	CH 3	2422	12.62	13.50	15.00	99.27
		CH 11	2462	12.44	13.00	15.00	

2.4GHz WLAN ANT 1+2 (W1+2)

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 1+2	802.11b 1Mbps	CH 1	2412	N/A	N/A	N/A	N/A
		CH 7	2442	N/A	N/A	N/A	
		CH 13	2472	N/A	N/A	N/A	
	802.11g 6Mbps	CH 1	2412	N/A	N/A	N/A	N/A
		CH 7	2442	N/A	N/A	N/A	
		CH 13	2472	N/A	N/A	N/A	
	802.11n-HT20 MCS0	CH 1	2412	17.35	18.00	18.50	99.74
		CH 7	2442	19.06	19.00	18.00	99.71
		CH 13	2472	11.90	13.00	9.00	99.22
	802.11n-HT40 MCS0	CH 3	2422	17.65	18.50	18.00	99.24
		CH 7	2442	14.67	15.50	16.00	99.24
		CH 11	2462	17.67	18.50	18.00	99.20
	802.11ac-VHT20 MCS0	CH 1	2412	15.55	16.50	15.00	99.22
		CH 7	2442	15.56	16.50	15.00	
		CH 13	2472	11.97	13.00	10.00	
	802.11ac-VHT40 MCS0	CH 3	2422	15.87	16.50	14.50	98.99
		CH 7	2462	15.66	16.50	14.50	
		CH 11	2462	15.87	16.50	14.50	
	802.11ax-HEW20 MCS0 / RU242	CH 1	2412				
		CH 6	2437				
		CH 11	2462				
	802.11ax-HEW20 MCS0 / RU26	CH 1	2412	15.83	16.50	16.00	99.61
		CH 7	2442	16.17	17.00	16.00	
		CH 13	2472	9.91	8.00	10.00	
	802.11ax-HEW20 MCS0 / RU52	CH 1	2412	15.76	16.50	16.00	99.57
		CH 7	2442	16.21	17.00	16.00	99.57
		CH 13	2472	16.06	17.00	16.00	99.61
	802.11ax-HEW20 MCS0 / RU106	CH 1	2412	15.69	16.50	15.50	99.58
		CH 13	2472	16.05	17.00	15.50	99.58
	802.11ax-HEW40 MCS0 / RU26	CH 3	2422	15.38	16.00	15.00	99.61
		CH 7	2442	15.54	16.50	15.00	
		CH 11	2462	15.94	16.50	15.00	
	802.11ax-HEW40 MCS0 / RU52	CH 3	2422	15.29	16.00	15.00	99.61
		CH 7	2442	15.94	16.50	15.00	
		CH 11	2462	16.02	17.00	15.00	
	802.11ax-HEW40 MCS0 / RU106	CH 3	2422	15.33	16.00	15.00	99.58
		CH 7	2462	15.98	16.50	15.00	99.54
		CH 11	2422	15.36	16.00	15.00	99.54
	802.11ax-HEW40 MCS0 / RU242	CH 3	2422	15.61	16.50	15.00	99.27
		CH 11	2462	15.32	16.00	15.00	

5GHz WLAN ANT 1 (WIFI 1)

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	15.62	16.50	15.00	100.00
		CH 44	5220	15.63	16.50	15.00	
		CH 48	5240	15.30	16.00	15.00	
	802.11n-HT20 MCS0	CH 36	5180	14.47	15.50	14.00	100.00
		CH 44	5220	14.45	15.50	14.00	
		CH 48	5240	14.08	15.00	14.00	
	802.11n-HT40 MCS0	CH 38	5190	14.94	15.50	14.00	100.00
		CH 46	5230	14.80	15.50	14.00	
	802.11ac-VHT20 MCS0	CH 36	5180	12.67	13.50	12.00	100.00
		CH 44	5220	12.65	13.50	12.00	
		CH 48	5240	12.23	13.00	12.00	
	802.11ac-VHT40 MCS0	CH 38	5190	12.58	13.50	12.00	100.00
		CH 46	5230	12.38	13.00	12.00	
	802.11ac-VHT80 MCS0	CH 42	5210	12.49	13.00	12.00	100.00
	802.11ax-HEW20 MCS0	CH 36	5180	12.68	13.50	12.00	100.00
		CH 44	5220	12.60	13.50	12.00	
		CH 48	5240	12.27	13.00	12.00	
	802.11ax-HEW40 MCS0	CH 38	5190	12.42	13.00	12.00	100.00
		CH 46	5230	12.13	13.00	12.00	
	802.11ax-HEW80 MCS0	CH 42	5210	12.41	13.00	12.00	100.00
	802.11ax-HEW20 MCS0 / RU26	CH 36	5180	11.46	12.00	10.00	100.00
		CH 44	5220	11.32	12.00	10.00	
		CH 48	5240	11.14	12.00	10.00	
	802.11ax-HEW20 MCS0 / RU52	CH 36	5180	12.80	13.50	12.00	100.00
		CH 44	5220	12.80	13.50	12.00	
		CH 48	5240	12.44	13.00	12.00	
	802.11ax-HEW20 MCS0 / RU106	CH 36	5180	12.66	13.50	12.00	100.00
		CH 44	5220	12.82	13.50	12.00	
		CH 48	5240	12.52	13.50	12.00	
	802.11ax-HEW40 MCS0 / RU26	CH 38	5190	12.15	13.00	11.00	100.00
		CH 46	5230	12.05	13.00	11.00	
	802.11ax-HEW40 MCS0 / RU52	CH 38	5190	12.59	13.50	12.00	100.00
		CH 46	5230	12.54	13.50	12.00	
	802.11ax-HEW40 MCS0 / RU106	CH 38	5190	12.57	13.50	12.00	100.00
		CH 46	5230	12.53	13.50	12.00	
	802.11ax-HEW40 MCS0 / RU242	CH 38	5190	12.58	13.50	12.00	100.00
		CH 46	5230	12.52	13.50	12.00	
	802.11ax-HEW80 MCS0 / RU26	CH 42	5210	11.86	12.50	11.00	100.00
	802.11ax-HEW80 MCS0 / RU52	CH 42	5210	12.46	13.00	12.00	100.00
	802.11ax-HEW80 MCS0 / RU106	CH 42	5210	12.35	13.00	12.00	100.00
	802.11ax-HEW80 MCS0 / RU242	CH 42	5210	12.27	13.00	12.00	100.00
	802.11ax-HEW80 MCS0 / RU484	CH 42	5210	12.24	13.00	12.00	100.00

5.2GHz WLAN ANT 2 (WIFI 2)

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 2	802.11a 6Mbps	CH 36	5180	15.93	16.50	16.00	100.00
		CH 44	5220	15.79	16.50	16.00	
		CH 48	5240	15.53	16.00	16.00	
	802.11n-HT20 MCS0	CH 36	5180	14.92	15.50	15.00	100.00
		CH 44	5220	14.69	15.50	15.00	
		CH 48	5240	14.52	15.00	15.00	
	802.11n-HT40 MCS0	CH 38	5190	14.12	15.00	15.00	100.00
		CH 46	5230	14.10	15.00	15.00	
	802.11ac-VHT20 MCS0	CH 36	5180	12.60	13.50	13.00	100.00
		CH 44	5220	12.28	13.00	13.00	
		CH 48	5240	12.11	13.00	13.00	
	802.11ac-VHT40 MCS0	CH 38	5190	12.50	13.00	13.00	100.00
		CH 46	5230	12.30	13.00	13.00	
	802.11ac-VHT80 MCS0	CH 42	5210	12.67	13.50	13.00	100.00
	802.11ax-HEW20 MCS0	CH 36	5180	12.63	13.50	13.00	100.00
		CH 44	5220	12.33	13.00	13.00	
		CH 48	5240	12.12	13.00	13.00	
	802.11ax-HEW40 MCS0	CH 38	5190	12.44	13.00	13.00	100.00
		CH 46	5230	12.15	13.00	13.00	
	802.11ax-HEW80 MCS0	CH 42	5210	12.70	13.50	13.00	100.00
	802.11ax-HEW20 MCS0 / RU26	CH 36	5180	11.73	12.50	11.00	100.00
		CH 44	5220	11.40	12.00	11.00	
		CH 48	5240	11.09	12.00	11.00	
	802.11ax-HEW20 MCS0 / RU52	CH 36	5180	12.29	13.00	13.00	100.00
		CH 44	5220	12.11	13.00	13.00	
		CH 48	5240	12.72	13.50	13.00	
	802.11ax-HEW20 MCS0 / RU106	CH 36	5180	12.58	13.50	13.00	100.00
		CH 44	5220	12.20	13.00	13.00	
		CH 48	5240	12.02	12.50	13.00	
	802.11ax-HEW40 MCS0 / RU26	CH 38	5190	11.60	12.50	11.00	100.00
		CH 46	5230	11.10	12.00	11.00	
	802.11ax-HEW40 MCS0 / RU52	CH 38	5190	12.53	13.00	13.00	100.00
		CH 46	5230	12.10	13.00	13.00	
	802.11ax-HEW40 MCS0 / RU106	CH 38	5190	12.54	13.50	13.00	100.00
		CH 46	5230	12.04	12.50	13.00	
	802.11ax-HEW40 MCS0 / RU242	CH 38	5190	12.38	13.00	13.00	100.00
		CH 46	5230	12.48	13.00	13.00	
	802.11ax-HEW80 MCS0 / RU26	CH 42	5210	11.95	12.50	12.00	100.00
	802.11ax-HEW80 MCS0 / RU52	CH 42	5210	12.48	13.00	12.00	100.00
	802.11ax-HEW80 MCS0 / RU106	CH 42	5210	12.44	13.00	12.00	100.00
	802.11ax-HEW80 MCS0 / RU242	CH 42	5210	12.25	13.00	12.00	100.00
	802.11ax-HEW80 MCS0 / RU484	CH 42	5210	12.04	12.50	12.00	100.00

5.2GHz WLAN ANT 1+2 (W1+2)

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1+2	802.11a 6Mbps	CH 36	5180	N/A	N/A	N/A	N/A
		CH 44	5220	N/A	N/A	N/A	
		CH 48	5240	N/A	N/A	N/A	
	802.11n-HT20 MCS0	CH 36	5180	18.02	18.50	15.00	100.00
		CH 44	5220	18.03	18.50	15.00	
		CH 48	5240	17.72	18.50	15.00	
	802.11n-HT40 MCS0	CH 38	5190	18.01	18.50	15.00	100.00
		CH 46	5230	17.92	18.50	15.00	
	802.11ac-VHT20 MCS0	CH 36	5180	16.24	17.00	13.00	100.00
		CH 44	5220	16.11	17.00	13.00	
		CH 48	5240	15.80	16.50	13.00	
	802.11ac-VHT40 MCS0	CH 38	5190	16.23	17.00	13.00	100.00
		CH 46	5230	15.92	16.50	13.00	
	802.11ac-VHT80 MCS0	CH 42	5210	16.18	17.00	13.00	100.00
	802.11ax-HEW20 MCS0	CH 36	5180	16.17	17.00	13.00	100.00
		CH 44	5220	16.04	16.50	13.00	
		CH 48	5240	15.75	16.50	13.00	
	802.11ax-HEW40 MCS0	CH 38	5190	16.12	17.00	13.00	100.00
		CH 46	5230	15.86	16.50	13.00	
	802.11ax-HEW80 MCS0	CH 42	5210	16.19	17.00	13.00	100.00
	802.11ax-HEW20 MCS0 / RU26	CH 36	5180	11.82	12.50	8.00	100.00
		CH 44	5220	11.73	12.50	8.00	
		CH 48	5240	11.49	12.00	8.00	
	802.11ax-HEW20 MCS0 / RU52	CH 36	5180	13.88	14.50	10.00	100.00
		CH 44	5220	13.70	14.50	10.00	
		CH 48	5240	13.34	14.00	10.00	
	802.11ax-HEW20 MCS0 / RU106	CH 36	5180	16.53	17.50	13.00	100.00
		CH 44	5230	16.45	17.00	13.00	
		CH 48	5240	16.17	17.00	13.00	
	802.11ax-HEW40 MCS0 / RU26	CH 38	5190	11.24	12.00	8.00	100.00
		CH 46	5230	11.05	12.00	8.00	
	802.11ax-HEW40 MCS0 / RU52	CH 38	5190	14.29	15.00	11.00	100.00
		CH 46	5230	14.05	14.50	11.00	
	802.11ax-HEW40 MCS0 / RU106	CH 38	5190	16.07	16.50	13.00	100.00
		CH 46	5230	15.80	16.50	13.00	
	802.11ax-HEW40 MCS0 / RU242	CH 38	5190	16.01	16.50	13.00	100.00
		CH 46	5230	16.18	17.00	13.00	
	802.11ax-HEW80 MCS0 / RU26	CH 42	5210	11.63	12.50	8.00	100.00
	802.11ax-HEW80 MCS0 / RU52	CH 42	5210	14.33	15.00	11.00	100.00
	802.11ax-HEW80 MCS0 / RU106	CH 42	5210	15.13	16.00	12.00	100.00
	802.11ax-HEW80 MCS0 / RU242	CH 42	5210	15.12	16.00	12.00	100.00
	802.11ax-HEW80 MCS0 / RU484	CH 42	5210	15.02	15.50	12.00	100.00

5GHz WLAN ANT 1 (WIFI 1)

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a 6Mbps	CH 149	5745	16.19	16.00	15.00	100.00
		CH 157	5785	15.00	15.50	15.00	
		CH 165	5825	15.05	15.50	15.00	
	802.11n-HT20 MCS0	CH 149	5745	14.51	15.50	14.00	100.00
		CH 157	5785	14.28	15.00	14.00	
		CH 165	5825	14.32	15.00	14.00	
	802.11n-HT40 MCS0	CH 151	5755	14.81	15.50	14.00	100.00
		CH 159	5795	14.33	15.00	14.00	
	802.11ac-VHT20 MCS0	CH 149	5745	12.35	13.00	12.00	100.00
		CH 157	5785	12.11	13.00	12.00	
		CH 165	5825	12.29	13.00	12.00	
	802.11ac-VHT40 MCS0	CH 151	5755	12.63	13.50	12.00	100.00
		CH 159	5795	12.27	13.00	12.00	
	802.11ac-VHT80 MCS0	CH 155	5775	12.22	13.00	12.00	100.00
	802.11ax-HEW20 MCS0 / RU242	CH 149	5745	12.40	13.00	12.00	100.00
		CH 157	5785	12.15	13.00	12.00	
		CH 165	5825	12.31	13.00	12.00	
	802.11ax-HEW40 MCS0	CH 151	5755	12.40	13.00	12.00	100.00
		CH 159	5795	12.08	12.50	12.00	
	802.11ax-HEW80 MCS0	CH 155	5775	12.23	13.00	12.00	100.00
	802.11ax-HEW20 MCS0 / RU26	CH 149	5745	12.74	13.50	12.00	100.00
		CH 157	5785	12.59	13.50	12.00	
		CH 165	5825	12.92	13.50	12.00	
	802.11ax-HEW20 MCS0 / RU52	CH 149	5745	12.59	13.50	12.00	100.00
		CH 157	5785	12.46	13.00	12.00	
		CH 165	5825	12.67	13.50	12.00	
	802.11ax-HEW20 MCS0 / RU106	CH 149	5745	12.61	13.50	12.00	100.00
		CH 157	5785	12.52	13.50	12.00	
		CH 165	5825	12.69	13.50	12.00	
	802.11ax-HEW40 MCS0 / RU26	CH 151	5755	13.01	13.50	12.00	100.00
		CH 159	5795	12.64	13.50	12.00	
	802.11ax-HEW40 MCS0 / RU52	CH 151	5755	12.87	13.50	12.00	100.00
		CH 159	5795	12.57	13.50	12.00	
	802.11ax-HEW40 MCS0 / RU106	CH 151	5755	12.89	13.50	12.00	100.00
		CH 159	5795	12.56	13.50	12.00	
	802.11ax-HEW40 MCS0 / RU242	CH 151	5755	12.81	13.50	12.00	100.00
		CH 159	5795	12.48	13.00	12.00	
	802.11ax-HEW80 MCS0 / RU26	CH 155	5775	12.65	13.50	12.00	100.00
	802.11ax-HEW80 MCS0 / RU52	CH 155	5775	12.52	13.00	12.00	100.00
	802.11ax-HEW80 MCS0 / RU106	CH 155	5775	12.44	13.00	12.00	100.00
	802.11ax-HEW80 MCS0 / RU242	CH 155	5775	12.26	13.00	12.00	100.00
	802.11ax-HEW80 MCS0 / RU484	CH 155	5775	12.13	13.00	12.00	100.00

5.8 WLAN ANT 2 (WIFI 2)

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 2	802.11a 6Mbps	CH 149	5745	15.39	16.00	16.00	100.00
		CH 157	5785	15.66	16.50	16.00	
		CH 165	5825	15.52	16.50	16.00	
	802.11n-HT20 MCS0	CH 149	5745	14.63	15.50	15.00	100.00
		CH 157	5785	14.85	15.50	15.00	
		CH 165	5825	14.68	15.50	15.00	
	802.11n-HT40 MCS0	CH 151	5755	14.83	15.50	15.00	100.00
		CH 159	5795	14.39	15.00	15.00	
	802.11ac-VHT20 MCS0	CH 149	5745	12.19	13.00	13.00	100.00
		CH 157	5785	12.45	13.00	13.00	
		CH 165	5825	12.43	13.00	13.00	
	802.11ac-VHT40 MCS0	CH 151	5755	12.89	13.50	13.00	100.00
		CH 159	5795	13.03	13.50	13.00	
	802.11ac-VHT80 MCS0	CH 155	5775	12.58	13.50	13.00	100.00
	802.11ax-HEW20 MCS0 / RU242	CH 149	5745	12.23	13.00	13.00	100.00
		CH 157	5785	12.48	13.00	13.00	
		CH 165	5825	12.37	13.00	13.00	
	802.11ax-HEW40 MCS0	CH 151	5755	12.71	13.50	13.00	100.00
		CH 159	5795	12.81	13.50	13.00	
	802.11ax-HEW80 MCS0	CH 155	5775	12.57	13.50	13.00	100.00
	802.11ax-HEW20 MCS0 / RU26	CH 149	5745	12.43	13.00	12.00	100.00
		CH 157	5785	12.88	13.50	12.00	
		CH 165	5825	13.03	13.50	12.00	
	802.11ax-HEW20 MCS0 / RU52	CH 149	5745	13.05	13.50	13.00	100.00
		CH 157	5785	13.24	14.00	13.00	
		CH 165	5825	13.31	14.00	13.00	
	802.11ax-HEW20 MCS0 / RU106	CH 149	5745	13.05	13.50	13.00	100.00
		CH 157	5785	13.34	14.00	13.00	
		CH 165	5825	13.40	14.00	13.00	
	802.11ax-HEW40 MCS0 / RU26	CH 151	5755	13.26	14.00	12.00	100.00
		CH 159	5795	13.36	14.00	12.00	
	802.11ax-HEW40 MCS0 / RU52	CH 151	5755	12.49	13.50	12.00	100.00
		CH 159	5795	12.73	13.50	12.00	
	802.11ax-HEW40 MCS0 / RU106	CH 151	5755	12.38	13.00	12.00	100.00
		CH 159	5795	12.73	13.50	12.00	
	802.11ax-HEW40 MCS0 / RU242	CH 151	5755	12.42	13.00	12.00	100.00
		CH 159	5795	12.64	13.50	12.00	
	802.11ax-HEW80 MCS0 / RU26	CH 155	5775	13.59	14.50	11.00	100.00
	802.11ax-HEW80 MCS0 / RU52	CH 155	5775	13.33	14.50	12.00	100.00
	802.11ax-HEW80 MCS0 / RU106	CH 155	5775	13.31	14.50	12.00	100.00
	802.11ax-HEW80 MCS0 / RU242	CH 155	5775	13.17	14.00	12.00	100.00
	802.11ax-HEW80 MCS0 / RU484	CH 155	5775	12.98	13.50	12.00	100.00

5.8 WLAN ANT 1+2 (W1+2)

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1+2	802.11a 6Mbps	CH 149	5745	N/A	N/A	N/A	N/A
		CH 157	5785	N/A	N/A	N/A	
		CH 165	5825	N/A	N/A	N/A	
	802.11n-HT20 MCS0	CH 149	5745	18.04	18.50	15.00	100.00

Reduced Power Level 1 for ANT 2 & WIFI 1 & WIFI 2 & MIMO

Band 42 (3450~3550MHz) (dBm)_ANT 2

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	20.25	20.33	20.27	21
20	QPSK	1	49	19.72	19.89	19.70	
20	QPSK	1	99	19.82	19.86	19.81	
20	QPSK	50	0	19.32	19.43	19.32	20
20	QPSK	50	24	18.90	18.95	18.85	
20	QPSK	50	50	18.79	18.98	18.68	
20	QPSK	100	0	18.93	18.94	18.91	
20	16QAM	1	0	19.13	19.18	19.03	20
20	16QAM	1	49	19.06	19.13	19.00	
20	16QAM	1	99	18.97	19.22	19.00	
20	16QAM	50	0	18.04	18.06	18.05	19
20	16QAM	50	24	17.78	18.00	17.87	
20	16QAM	50	50	17.92	18.06	17.86	
20	16QAM	100	0	17.81	17.92	17.79	
20	64QAM	1	0	17.96	18.03	17.81	19
20	64QAM	1	49	17.85	17.83	17.96	
20	64QAM	1	99	17.92	17.88	17.78	
20	64QAM	50	0	16.85	17.06	16.83	18
20	64QAM	50	24	16.86	16.96	16.95	
20	64QAM	50	50	16.98	16.81	16.86	
20	64QAM	100	0	17.01	17.13	16.82	
20	256QAM	1	0	14.54	14.72	14.59	15.5
20	256QAM	1	49	14.52	14.61	14.51	
20	256QAM	1	99	24.50	14.48	14.41	
20	256QAM	50	0	13.59	13.51	13.47	14.5
20	256QAM	50	24	13.48	13.43	13.53	
20	256QAM	50	50	13.46	13.46	13.41	
20	256QAM	100	0	13.50	13.54	13.42	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	19.86	19.90	19.86	21
15	QPSK	1	37	19.84	19.87	19.65	
15	QPSK	1	74	19.74	19.77	19.66	
15	QPSK	36	0	18.98	19.04	18.82	20
15	QPSK	36	20	18.89	19.03	18.83	
15	QPSK	36	39	18.86	18.96	18.77	
15	QPSK	75	0	18.88	18.95	18.96	
15	16QAM	1	0	18.95	19.12	18.96	20
15	16QAM	1	37	19.17	19.14	19.11	
15	16QAM	1	74	18.98	19.19	19.06	
15	16QAM	36	0	18.05	18.01	17.97	19
15	16QAM	36	20	17.75	17.90	17.95	
15	16QAM	36	39	17.91	18.01	17.88	
15	16QAM	75	0	17.92	17.93	17.84	
15	64QAM	1	0	17.94	18.03	17.74	19
15	64QAM	1	37	17.94	17.95	17.86	
15	64QAM	1	74	18.14	17.95	17.85	
15	64QAM	36	0	16.79	17.12	16.79	18
15	64QAM	36	20	16.96	16.91	16.94	
15	64QAM	36	39	17.01	16.89	16.77	
15	64QAM	75	0	16.84	17.13	16.81	
15	256QAM	1	0	14.58	14.63	14.61	15.5
15	256QAM	1	49	14.47	14.61	14.58	
15	256QAM	1	99	14.50	14.27	14.40	
15	256QAM	50	0	13.39	13.66	13.42	14.5
15	256QAM	50	24	13.59	13.58	13.61	
15	256QAM	50	50	13.44	13.47	13.52	
15	256QAM	100	0	13.51	13.61	13.53	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	19.84	19.89	19.82	21
10	QPSK	1	25	19.87	19.81	19.82	
10	QPSK	1	49	19.69	19.87	19.73	
10	QPSK	25	0	19.05	19.04	18.95	20
10	QPSK	25	12	18.85	19.03	18.97	
10	QPSK	25	25	18.86	19.05	18.73	
10	QPSK	50	0	18.82	18.93	18.94	
10	16QAM	1	0	19.03	19.05	19.08	20
10	16QAM	1	25	19.08	19.21	19.14	
10	16QAM	1	49	19.02	19.24	19.05	
10	16QAM	25	0	18.02	18.01	18.09	19
10	16QAM	25	12	17.86	18.08	18.05	
10	16QAM	25	25	17.94	17.91	17.82	
10	16QAM	50	0	17.91	17.77	17.93	
10	64QAM	1	0	17.94	18.15	17.88	19
10	64QAM	1	25	17.86	17.91	17.89	
10	64QAM	1	49	18.12	17.85	17.87	
10	64QAM	25	0	16.83	17.11	16.86	18
10	64QAM	25	12	16.97	16.86	16.95	
10	64QAM	25	25	16.90	16.85	16.82	
10	64QAM	50	0	17.02	17.00	16.77	
10	256QAM	1	0	14.54	14.67	14.49	15.5
10	256QAM	1	49	14.45	14.50	14.50	
10	256QAM	1	99	14.51	14.42	14.41	
10	256QAM	50	0	13.57	13.60	13.56	14.5
10	256QAM	50	24	13.48	13.40	13.58	
10	256QAM	50	50	13.52	13.52	13.53	
10	256QAM	100	0	13.44	13.55	13.49	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	19.81	19.87	19.82	21
5	QPSK	1	12	19.77	19.84	19.79	
5	QPSK	1	24	19.81	19.85	19.77	
5	QPSK	12	0	18.97	18.91	18.96	20
5	QPSK	12	7	18.95	18.95	18.84	
5	QPSK	12	13	18.76	18.93	18.74	
5	QPSK	25	0	18.76	18.81	18.80	
5	16QAM	1	0	19.13	19.10	19.09	20
5	16QAM	1	12	19.05	19.17	19.07	
5	16QAM	1	24	18.99	19.09	18.99	
5	16QAM	12	0	18.05	18.03	18.00	19
5	16QAM	12	7	17.87	18.02	17.87	

Band 42 (3550~3600MHz) (dBm)_ANT 2

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				43190	43340	43490	
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	20.24	20.27	20.22	21
20	QPSK	1	49	19.70	19.84	19.69	
20	QPSK	1	99	19.79	19.80	19.63	
20	QPSK	50	0	19.29	19.36	19.29	20
20	QPSK	50	24	18.77	18.88	18.76	
20	QPSK	50	50	18.75	18.94	18.58	
20	QPSK	100	0	18.81	18.87	18.85	
20	16QAM	1	0	18.99	18.99	18.92	20
20	16QAM	1	49	18.94	19.15	19.15	
20	16QAM	1	99	19.02	19.16	18.87	
20	16QAM	50	0	17.97	17.97	17.93	19
20	16QAM	50	24	17.83	17.93	17.92	
20	16QAM	50	50	17.93	17.92	17.69	
20	16QAM	100	0	17.74	17.75	17.85	
20	64QAM	1	0	17.77	17.95	17.72	19
20	64QAM	1	49	17.74	17.93	17.85	
20	64QAM	1	99	17.83	17.89	17.81	
20	64QAM	50	0	16.89	17.04	16.75	18
20	64QAM	50	24	16.99	16.75	17.01	
20	64QAM	50	50	17.01	16.75	16.80	
20	64QAM	100	0	16.77	16.95	16.82	
20	256QAM	1	0	14.54	14.65	14.63	15.5
20	256QAM	1	49	14.53	14.60	14.64	
20	256QAM	1	99	14.44	14.44	14.50	
20	256QAM	50	0	13.50	13.54	13.46	14.5
20	256QAM	50	24	13.42	13.58	13.48	
20	256QAM	50	50	13.38	13.48	13.41	
20	256QAM	100	0	13.45	13.53	13.48	
Channel				43165	43340	43515	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3575	3592.5	
15	QPSK	1	0	19.81	19.83	19.78	21
15	QPSK	1	37	19.74	19.77	19.63	
15	QPSK	1	74	19.62	19.70	19.62	
15	QPSK	36	0	18.89	18.94	18.78	20
15	QPSK	36	20	18.81	18.87	18.86	
15	QPSK	36	39	18.85	18.82	18.69	
15	QPSK	75	0	18.88	18.88	18.83	
15	16QAM	1	0	18.97	19.08	19.10	20
15	16QAM	1	37	18.93	19.12	19.07	
15	16QAM	1	74	18.88	19.10	18.96	
15	16QAM	36	0	18.03	17.96	17.94	19
15	16QAM	36	20	17.87	17.93	17.87	
15	16QAM	36	39	17.78	17.83	17.70	
15	16QAM	75	0	17.83	17.77	17.78	
15	64QAM	1	0	17.79	18.02	17.81	19
15	64QAM	1	37	17.92	17.90	17.72	
15	64QAM	1	74	18.09	17.89	17.80	
15	64QAM	36	0	16.76	17.06	16.84	18
15	64QAM	36	20	16.94	16.91	16.94	
15	64QAM	36	39	16.83	16.78	16.78	
15	64QAM	75	0	16.93	16.98	16.68	
15	256QAM	1	0	14.59	14.73	14.50	15.5
15	256QAM	1	49	14.48	14.55	14.50	
15	256QAM	1	99	14.53	14.39	14.41	
15	256QAM	50	0	13.34	13.60	13.50	14.5
15	256QAM	50	24	13.57	13.62	13.56	
15	256QAM	50	50	13.51	13.46	13.47	
15	256QAM	100	0	13.50	13.63	13.55	
Channel				43140	43340	43540	Tune-up limit (dBm)
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	19.82	19.85	19.79	21
10	QPSK	1	25	19.84	19.81	19.74	
10	QPSK	1	49	19.72	19.78	19.73	
10	QPSK	25	0	18.95	18.92	18.90	20
10	QPSK	25	12	18.87	18.82	18.79	
10	QPSK	25	25	18.76	18.90	18.67	
10	QPSK	50	0	18.79	18.83	18.76	
10	16QAM	1	0	18.94	19.00	18.99	20
10	16QAM	1	25	19.00	19.16	19.05	
10	16QAM	1	49	18.97	19.15	18.84	
10	16QAM	25	0	18.02	18.05	18.04	19
10	16QAM	25	12	17.80	17.91	17.81	
10	16QAM	25	25	17.83	18.01	17.76	
10	16QAM	50	0	17.69	17.78	17.93	
10	64QAM	1	0	17.78	18.04	17.77	19
10	64QAM	1	25	17.83	17.80	17.83	
10	64QAM	1	49	18.05	17.91	17.81	
10	64QAM	25	0	16.80	17.10	16.75	18
10	64QAM	25	12	16.97	16.79	16.87	
10	64QAM	25	25	16.99	16.93	16.79	
10	64QAM	50	0	16.79	17.05	16.83	
10	256QAM	1	0	14.49	14.55	14.58	15.5
10	256QAM	1	49	14.50	14.51	14.64	
10	256QAM	1	99	14.43	14.45	14.52	
10	256QAM	50	0	13.58	13.52	13.52	14.5
10	256QAM	50	24	13.51	13.58	13.51	
10	256QAM	50	50	13.50	13.48	13.44	
10	256QAM	100	0	13.44	13.59	13.51	
Channel				43115	43340	43565	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3575	3597.5	
5	QPSK	1	0	19.78	19.84	19.81	21
5	QPSK	1	12	19.80	19.80	19.63	
5	QPSK	1	24	19.67	19.71	19.67	
5	QPSK	12	0	18.94	18.95	18.87	20
5	QPSK	12	7	18.78	19.01	18.89	
5	QPSK	12	13	18.78	18.92	18.70	
5	QPSK	25	0	18.73	18.77	18.94	
5	16QAM	1	0	18.92	19.06	19.10	20
5	16QAM	1	12	19.09	19.01	19.14	
5	16QAM	1	24	18.90	19.23	18.89	
5	16QAM	12	0	18.08	17.94	17.99	19
5	16QAM	12	7	17.85	17.87	17.97	

5	16QAM	12	13	17.88	18.03	17.86	
5	16QAM	25	0	17.78	17.87	17.86	
5	64QAM	1	0	17.93	18.17	17.86	19
5	64QAM	1	12	17.92	17.92	17.96	
5	64QAM	1	24	18.00	17.82	17.84	
5	64QAM	12	0	16.95	17.07	16.94	18
5	64QAM	12	7	16.87	16.80	16.88	
5	64QAM	12	13	16.95	16.96	16.84	
5	64QAM	25	0	16.86	16.99	16.83	
5	256QAM	1	0	14.59	14.59	14.53	15.5
5	256QAM	1	49	14.43	14.45	14.57	
5	256QAM	1	99	14.51	14.30	14.42	
5	256QAM	50	0	13.52	13.56	13.55	14.5
5	256QAM	50	24	13.47	13.52	13.60	
5	256QAM	50	50	13.49	13.44	13.54	
5	256QAM	100	0	13.45	13.60	13.56	

5	16QAM	12	13	17.74	17.83	17.84	
5	16QAM	25	0	17.68	17.74	17.88	
5	64QAM	1	0	17.77	18.05	17.72	19
5	64QAM	1	12	17.90	17.92	17.86	
5	64QAM	1	24	17.98	17.90	17.75	
5	64QAM	12	0	16.77	17.10	16.88	18
5	64QAM	12	7	16.93	16.80	16.85	
5	64QAM	12	13	16.82	16.87	16.80	
5	64QAM	25	0	16.78	17.05	16.82	
5	256QAM	1	0	14.64	14.58	14.47	15.5
5	256QAM	1	49	14.51	14.59	14.51	
5	256QAM	1	99	14.45	14.42	14.47	
5	256QAM	50	0	13.55	13.69	13.49	14.5
5	256QAM	50	24	13.53	13.54	13.50	
5	256QAM	50	50	13.42	13.48	13.52	
5	256QAM	100	0	13.50	13.49	13.44	

Band 43 (3.6GHz Band) for FCC use (dBm)_ANT 2

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle channel	High channel	Tune-up limit (dBm)
Channel				43690	44090	44490	
Frequency (MHz)				3610	3650	3690	
20	QPSK	1	0	17.86	17.91	17.85	19
20	QPSK	1	49	17.72	17.83	17.71	
20	QPSK	1	99	17.66	17.66	17.68	
20	QPSK	50	0	16.95	16.96	16.74	18
20	QPSK	50	24	16.71	16.83	16.74	
20	QPSK	50	50	16.85	16.92	16.76	
20	QPSK	100	0	16.73	16.84	16.76	
20	16QAM	1	0	16.97	17.00	17.09	18
20	16QAM	1	49	17.01	17.03	17.10	
20	16QAM	1	99	16.89	17.08	16.90	
20	16QAM	50	0	15.97	16.01	15.93	17
20	16QAM	50	24	15.76	15.93	15.75	
20	16QAM	50	50	15.84	15.85	15.74	
20	16QAM	100	0	15.67	15.78	15.95	
20	64QAM	1	0	15.94	16.03	15.78	17
20	64QAM	1	49	15.78	15.94	15.96	
20	64QAM	1	99	15.87	15.75	15.68	
20	64QAM	50	0	14.76	15.00	14.87	16
20	64QAM	50	24	14.77	14.89	14.97	
20	64QAM	50	50	14.85	14.81	14.66	
20	64QAM	100	0	14.75	14.94	14.65	
20	256QAM	1	0	12.75	12.86	12.61	14
20	256QAM	1	49	12.60	12.70	12.81	
20	256QAM	1	99	12.62	12.56	12.47	
20	256QAM	50	0	11.47	11.87	11.76	13
20	256QAM	50	24	11.47	11.73	11.86	
20	256QAM	50	50	11.68	11.65	11.54	
20	256QAM	100	0	11.65	11.78	11.55	
Channel				43665	44090	44515	Tune-up limit (dBm)
Frequency (MHz)				3607.5	3650	3692.5	
15	QPSK	1	0	17.81	17.87	17.79	19
15	QPSK	1	37	17.71	17.67	17.58	
15	QPSK	1	74	17.68	17.72	17.54	
15	QPSK	36	0	16.96	16.98	16.94	18
15	QPSK	36	20	16.79	16.81	16.84	
15	QPSK	36	39	16.96	16.78	16.67	
15	QPSK	75	0	16.82	16.92	16.85	
15	16QAM	1	0	16.92	17.01	17.03	18
15	16QAM	1	37	17.06	17.05	17.10	
15	16QAM	1	74	16.91	16.95	16.81	
15	16QAM	36	0	15.96	15.96	15.88	17
15	16QAM	36	20	15.71	16.01	15.86	
15	16QAM	36	39	15.72	15.83	15.69	
15	16QAM	75	0	15.72	15.90	16.04	
15	64QAM	1	0	15.90	16.04	15.80	17
15	64QAM	1	37	15.70	15.86	15.86	
15	64QAM	1	74	15.86	15.89	15.77	
15	64QAM	36	0	14.83	14.96	14.93	16
15	64QAM	36	20	14.70	14.88	14.93	
15	64QAM	36	39	14.91	14.91	14.75	
15	64QAM	75	0	14.86	14.96	14.67	
15	256QAM	1	0	12.82	12.75	12.52	14
15	256QAM	1	37	12.53	12.74	12.72	
15	256QAM	1	74	12.59	12.62	12.53	
15	256QAM	36	0	11.60	11.86	11.62	13
15	256QAM	36	20	11.61	11.67	11.75	
15	256QAM	36	39	11.60	11.61	11.38	
15	256QAM	75	0	11.51	11.76	11.50	
Channel				43640	44090	44540	Tune-up limit (dBm)
Frequency (MHz)				3605	3650	3695	
10	QPSK	1	0	17.79	17.85	17.80	19
10	QPSK	1	25	17.74	17.79	17.66	
10	QPSK	1	49	17.66	17.76	17.64	
10	QPSK	25	0	16.94	16.89	16.82	18
10	QPSK	25	12	16.80	16.97	16.83	
10	QPSK	25	25	16.78	16.92	16.65	
10	QPSK	50	0	16.75	16.78	16.82	
10	16QAM	1	0	16.97	17.03	16.97	18
10	16QAM	1	25	17.00	17.06	17.02	
10	16QAM	1	49	16.93	17.11	16.89	
10	16QAM	25	0	15.98	16.01	15.94	17
10	16QAM	25	12	15.76	15.92	15.87	
10	16QAM	25	25	15.80	15.89	15.74	
10	16QAM	50	0	15.75	15.77	15.81	
10	64QAM	1	0	15.84	16.01	15.76	17
10	64QAM	1	25	15.79	15.84	15.79	
10	64QAM	1	49	15.98	15.84	15.75	
10	64QAM	25	0	14.78	15.07	14.77	16
10	64QAM	25	12	14.88	14.79	14.89	
10	64QAM	25	25	14.89	14.82	14.73	
10	64QAM	50	0	14.84	14.96	14.59	
10	256QAM	1	0	12.70	12.75	12.63	14
10	256QAM	1	25	12.60	12.64	12.77	
10	256QAM	1	49	12.57	12.63	12.51	
10	256QAM	25	0	11.54	11.82	11.67	13
10	256QAM	25	12	11.52	11.75	11.87	
10	256QAM	25	25	11.73	11.69	11.52	
10	256QAM	50	0	11.64	11.72	11.55	
Channel				43615	44090	44565	Tune-up limit (dBm)
Frequency (MHz)				3602.5	3650	3697.5	
5	QPSK	1	0	17.80	17.86	17.77	19
5	QPSK	1	12	17.70	17.71	17.58	
5	QPSK	1	24	17.72	17.73	17.63	
5	QPSK	12	0	16.83	16.98	16.87	18
5	QPSK	12	7	16.86	16.92	16.87	
5	QPSK	12	13	16.78	16.79	16.69	
5	QPSK	25	0	16.73	16.84	16.84	
5	16QAM	1	0	16.93	16.98	17.11	18
5	16QAM	1	12	16.87	17.12	17.13	
5	16QAM	1	24	17.02	16.96	16.94	
5	16QAM	12	0	15.85	15.98	15.98	17
5	16QAM	12	7	15.66	15.89	15.90	

Band 43 (3.7GHz Band) for FCC use (dBm)_ANT 2

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle channel	High channel	Tune-up limit (dBm)
Channel				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	17.89	17.95	17.83	19
20	QPSK	1	49	17.66	17.92	17.63	
20	QPSK	1	99	17.57	17.65	17.75	
20	QPSK	50	0	16.96	16.99	16.80	18
20	QPSK	50	24	16.71	16.75	16.71	
20	QPSK	50	50	16.88	16.82	16.82	
20	QPSK	100	0	16.80	16.86	16.77	
20	16QAM	1	0	16.98	16.99	17.02	18
20	16QAM	1	49	17.09	17.09	17.04	
20	16QAM	1	99	16.93	16.98	17.00	
20	16QAM	50	0	16.03	15.98	15.87	17
20	16QAM	50	24	15.77	15.93	15.78	
20	16QAM	50	50	15.76	15.79	15.70	
20	16QAM	100	0	15.74	15.79	16.02	
20	64QAM	1	0	16.03	16.10	15.83	17
20	64QAM	1	49	15.72	15.89	15.93	
20	64QAM	1	99	15.80	15.74	15.77	
20	64QAM	50	0	14.68	15.01	14.84	16
20	64QAM	50	24	14.82	14.94	15.06	
20	64QAM	50	50	14.93	14.84	14.71	
20	64QAM	100	0	14.78	14.94	14.72	
20	256QAM	1	0	12.74	12.89	12.66	14
20	256QAM	1	49	12.58	12.67	12.81	
20	256QAM	1	99	12.70	12.60	12.53	
20	256QAM	50	0	11.56	11.71	11.60	13
20	256QAM	50	24	11.64	11.63	11.84	
20	256QAM	50	50	11.67	11.61	11.47	
20	256QAM	100	0	11.47	11.72	11.45	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	17.86	17.91	17.78	19
15	QPSK	1	37	17.70	17.75	17.68	
15	QPSK	1	74	17.63	17.65	17.69	
15	QPSK	36	0	17.00	16.99	16.68	18
15	QPSK	36	20	16.73	16.87	16.66	
15	QPSK	36	39	16.75	17.02	16.81	
15	QPSK	75	0	16.63	16.76	16.78	
15	16QAM	1	0	17.02	17.10	17.08	18
15	16QAM	1	37	16.94	16.96	17.17	
15	16QAM	1	74	16.82	17.01	16.94	
15	16QAM	36	0	15.87	16.08	15.94	17
15	16QAM	36	20	15.66	15.87	15.82	
15	16QAM	36	39	15.79	15.83	15.70	
15	16QAM	75	0	15.72	15.87	15.88	
15	64QAM	1	0	16.02	15.96	15.80	17
15	64QAM	1	37	15.76	15.94	15.89	
15	64QAM	1	74	15.96	15.74	15.70	
15	64QAM	36	0	14.72	14.96	14.78	16
15	64QAM	36	20	14.76	14.84	15.04	
15	64QAM	36	39	14.83	14.83	14.60	
15	64QAM	75	0	14.69	15.02	14.71	
15	256QAM	1	0	12.68	12.83	12.66	14
15	256QAM	1	37	12.65	12.77	12.86	
15	256QAM	1	74	12.68	12.57	12.53	
15	256QAM	36	0	11.51	11.89	11.65	13
15	256QAM	36	20	11.60	11.61	11.70	
15	256QAM	36	39	11.75	11.68	11.48	
15	256QAM	75	0	11.60	11.73	11.48	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	0	17.77	17.92	17.75	19
10	QPSK	1	25	17.79	17.90	17.67	
10	QPSK	1	49	17.74	17.68	17.60	
10	QPSK	25	0	16.93	16.92	16.66	18
10	QPSK	25	12	16.81	16.80	16.76	
10	QPSK	25	25	16.82	16.99	16.68	
10	QPSK	50	0	16.70	16.81	16.76	
10	16QAM	1	0	17.04	17.10	17.10	18
10	16QAM	1	25	16.92	17.08	17.02	
10	16QAM	1	49	16.84	17.04	16.83	
10	16QAM	25	0	15.90	16.04	15.93	17
10	16QAM	25	12	15.67	15.95	15.65	
10	16QAM	25	25	15.86	15.75	15.74	
10	16QAM	50	0	15.73	15.70	16.01	
10	64QAM	1	0	16.04	15.99	15.70	17
10	64QAM	1	25	15.81	15.89	15.90	
10	64QAM	1	49	15.82	15.84	15.60	
10	64QAM	25	0	14.67	15.02	14.88	16
10	64QAM	25	12	14.84	14.91	15.02	
10	64QAM	25	25	14.87	14.88	14.74	
10	64QAM	50	0	14.67	14.98	14.75	
10	256QAM	1	0	12.72	12.85	12.63	14
10	256QAM	1	25	12.48	12.65	12.66	
10	256QAM	1	49	12.77	12.48	12.59	
10	256QAM	25	0	11.58	11.76	11.59	13
10	256QAM	25	12	11.65	11.73	11.72	
10	256QAM	25	25	11.69	11.59	11.46	
10	256QAM	50	0	11.58	11.73	11.56	
Channel				44615	45090	45565	Tune-up limit (dBm)
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	17.88	17.89	17.86	19
5	QPSK	1	12	17.63	17.83	17.80	
5	QPSK	1	24	17.60	17.75	17.77	
5	QPSK	12	0	16.88	16.89	16.68	18
5	QPSK	12	7	16.61	16.77	16.84	
5	QPSK	12	13	16.85	16.89	16.69	
5	QPSK	25	0	16.70	16.94	16.72	
5	16QAM	1	0	16.96	16.94	17.14	18
5	16QAM	1	12	16.97	16.97	17.04	
5	16QAM	1	24	16.92	17.03	17.00	
5	16QAM	12	0	15.95	16.05	15.84	17
5	16QAM	12	7	15.79	16.00	15.85	

5	16QAM	12	13	15.76	15.91	15.72	
5	16QAM	25	0	15.68	15.86	15.96	
5	64QAM	1	0	16.00	15.95	15.96	17
5	64QAM	1	12	15.80	15.99	15.99	
5	64QAM	1	24	15.93	15.76	15.70	
5	64QAM	12	0	14.78	15.00	14.79	16
5	64QAM	12	7	14.76	14.92	14.98	
5	64QAM	12	13	14.94	14.91	14.68	
5	64QAM	25	0	14.92	14.80	14.61	
5	256QAM	1	0	12.83	12.81	12.68	14
5	256QAM	1	12	12.50	12.76	12.86	
5	256QAM	1	24	12.76	12.64	12.52	
5	256QAM	12	0	11.52	11.79	11.67	13
5	256QAM	12	7	11.66	11.64	11.87	
5	256QAM	12	13	11.64	11.68	11.50	
5	256QAM	25	0	11.56	11.69		

5	16QAM	12	13	15.88	15.87	15.77	
5	16QAM	25	0	15.76	15.82	15.88	
5	64QAM	1	0	15.93	15.94	15.73	17
5	64QAM	1	12	15.69	16.02	15.96	
5	64QAM	1	24	15.97	15.66	15.71	
5	64QAM	12	0	14.86	15.10	14.88	16
5	64QAM	12	7	14.76	14.83	14.95	
5	64QAM	12	13	14.95	14.77	14.72	
5	64QAM	25	0	14.80	14.99	14.57	
5	256QAM	1	0	12.75	12.78	12.61	14
5	256QAM	1	12	12.49	12.72	12.77	
5	256QAM	1	24	12.71	12.57	12.55	
5	256QAM	12	0	11.48	11.73	11.72	13
5	256QAM	12	7	11.48	11.74	11.85	
5	256QAM	12	13	11.58	11.64	11.47	
5	256QAM	25	0	11.62	11.71	11.48	

Band 48 (3.5G Band) (dBm)_ANT 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	20.17	20.20	20.23	20.18	20.10	21
20	QPSK	1	49	19.67	19.69	19.69	19.72	19.71	
20	QPSK	1	99	19.73	19.71	19.73	19.53	19.67	
20	QPSK	50	0	19.27	19.18	19.30	19.13	19.03	20
20	QPSK	50	24	18.72	18.71	18.77	18.81	18.70	
20	QPSK	50	50	18.72	18.63	18.85	18.66	18.50	
20	QPSK	100	0	18.74	18.65	18.74	18.67	18.48	
20	16QAM	1	0	19.00	18.95	19.05	19.00	18.85	20
20	16QAM	1	49	18.90	19.02	18.87	18.80	18.71	
20	16QAM	1	99	18.88	18.80	18.93	18.89	18.74	
20	16QAM	50	0	17.66	17.82	17.74	17.81	17.68	19
20	16QAM	50	24	17.68	17.69	17.77	17.65	17.49	
20	16QAM	50	50	17.66	17.59	17.79	17.52	17.43	
20	16QAM	100	0	17.69	17.63	17.73	17.67	17.53	
20	64QAM	1	0	17.86	17.87	17.91	17.70	17.77	19
20	64QAM	1	49	17.86	17.78	17.82	17.76	17.69	
20	64QAM	1	99	17.67	17.64	17.83	17.74	17.55	
20	64QAM	50	0	17.66	17.66	17.80	17.70	17.52	19
20	64QAM	50	24	17.55	17.69	17.67	17.68	17.56	
20	64QAM	50	50	17.71	17.56	17.66	17.57	17.47	
20	64QAM	100	0	17.66	17.56	17.74	17.60	17.42	
20	256QAM	1	0	14.67	14.61	14.68	14.55	14.40	15.5
20	256QAM	1	49	14.55	14.51	14.57	14.57	14.61	
20	256QAM	1	99	14.55	14.47	14.37	14.35	14.45	
20	256QAM	50	0	13.40	13.47	13.73	13.55	13.45	14.5
20	256QAM	50	24	13.46	13.50	13.63	13.62	13.58	
20	256QAM	50	50	13.45	13.61	13.44	13.36	13.42	
20	256QAM	100	0	13.45	13.49	13.65	13.33	13.30	
Channel				55315	55820	55990	56160.15	56665.15	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3625	3642.15	3692.65	
15	QPSK	1	0	19.71	19.77	19.79	19.78	19.73	21
15	QPSK	1	37	19.65	19.68	19.68	19.72	19.71	
15	QPSK	1	74	19.67	19.73	19.73	19.73	19.63	
15	QPSK	36	0	18.77	18.88	18.83	18.87	18.77	20
15	QPSK	36	20	18.79	18.76	18.81	18.89	18.83	
15	QPSK	36	39	18.80	18.81	18.83	18.71	18.69	
15	QPSK	75	0	18.70	18.66	18.78	18.72	18.82	
15	16QAM	1	0	19.06	18.88	19.02	19.02	19.04	20
15	16QAM	1	37	19.00	18.83	18.87	18.93	18.89	
15	16QAM	1	74	18.88	18.78	18.91	19.04	18.77	
15	16QAM	36	0	17.64	17.81	17.81	17.91	17.72	19
15	16QAM	36	20	17.61	17.76	17.72	17.89	17.66	
15	16QAM	36	39	17.58	17.60	17.68	17.76	17.68	
15	16QAM	75	0	17.60	17.54	17.64	17.89	17.72	
15	64QAM	1	0	17.81	17.85	17.83	17.86	17.93	19
15	64QAM	1	37	17.82	17.83	17.75	17.76	17.79	
15	64QAM	1	74	17.78	17.73	17.65	17.81	17.71	
15	64QAM	36	0	17.58	17.64	17.67	17.80	17.77	19
15	64QAM	36	20	17.64	17.69	17.52	17.73	17.63	
15	64QAM	36	39	17.58	17.54	17.74	17.81	17.66	
15	64QAM	75	0	17.55	17.60	17.55	17.63	17.51	
15	256QAM	1	0	14.67	14.63	14.63	14.48	14.37	15.5
15	256QAM	1	37	14.40	14.36	14.54	14.55	14.73	
15	256QAM	1	74	14.64	14.56	14.45	14.37	14.39	
15	256QAM	36	0	13.42	13.35	13.70	13.54	13.49	14.5
15	256QAM	36	20	13.55	13.39	13.65	13.59	13.61	
15	256QAM	36	39	13.46	13.63	13.45	13.40	13.35	
15	256QAM	75	0	13.46	13.46	13.57	13.26	13.38	
Channel				55290	55815	55990	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3625	3642.5	3695	
10	QPSK	1	0	19.69	19.76	19.78	19.67	19.62	21
10	QPSK	1	25	19.73	19.64	19.79	19.69	19.45	
10	QPSK	1	49	19.64	19.74	19.76	19.61	19.60	
10	QPSK	25	0	18.86	18.83	18.95	18.84	18.65	20
10	QPSK	25	12	18.82	18.77	18.75	18.66	18.72	
10	QPSK	25	25	18.70	18.73	18.73	18.66	18.66	
10	QPSK	50	0	18.71	18.73	18.87	18.68	18.62	
10	16QAM	1	0	19.04	19.04	18.94	18.90	18.79	20
10	16QAM	1	25	18.84	18.88	18.86	18.90	18.78	
10	16QAM	1	49	18.94	18.76	18.89	18.92	18.76	
10	16QAM	25	0	17.65	17.67	17.77	17.76	17.72	19
10	16QAM	25	12	17.66	17.73	17.85	17.66	17.47	
10	16QAM	25	25	17.58	17.56	17.63	17.71	17.52	
10	16QAM	50	0	17.59	17.63	17.78	17.73	17.61	
10	64QAM	1	0	17.85	17.84	17.83	17.86	17.74	19
10	64QAM	1	25	17.74	17.75	17.92	17.64	17.58	
10	64QAM	1	49	17.63	17.76	17.82	17.74	17.56	
10	64QAM	25	0	17.75	17.65	17.81	17.58	17.65	19
10	64QAM	25	12	17.56	17.54	17.64	17.66	17.60	
10	64QAM	25	25	17.64	17.56	17.63	17.51	17.49	
10	64QAM	50	0	17.51	17.47	17.72	17.57	17.41	
10	256QAM	1	0	14.64	14.63	14.61	14.48	14.44	15.5
10	256QAM	1	25	14.38	14.41	14.59	14.69	14.63	
10	256QAM	1	49	14.62	14.60	14.35	14.31	14.37	
10	256QAM	25	0	13.49	13.53	13.74	13.45	13.58	14.5
10	256QAM	25	12	13.53	13.52	13.64	13.71	13.63	
10	256QAM	25	25	13.63	13.45	13.52	13.40	13.34	
10	256QAM	50	0	13.41	13.41	13.71	13.37	13.38	
Channel				55265	55810	55990	56170	56175	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	
5	QPSK	1	0	19.74	19.73	19.76	19.70	19.62	21
5	QPSK	1	12	19.65	19.71	19.70	19.61	19.53	
5	QPSK	1	24	19.63	19.63	19.64	19.62	19.53	
5	QPSK	12	0	18.93	18.94	18.84	18.79	18.80	20
5	QPSK	12	7	18.84	18.66	18.93	18.71	18.53	
5	QPSK	12	13	18.65	18.81	18.83	18.69	18.50	
5	QPSK	25	0	18.73	18.70	18.70	18.70	18.50	
5	16QAM	1	0	18.96	19.03	18.95	18.84	18.87	20
5	16QAM	1	12	18.88	19.00	18.91	18.77	18.69	
5	16QAM	1	24	18.92	18.82	18.94	18.89	18.64	
5	16QAM	12	0	17.75	17.63	17.79	17.73	17.70	19
5	16QAM	12	7	17.70	17.65	17.72	17.60	17.55	

5	16QAM	12	13	17.56	17.67	17.80	17.61	17.51	
5	16QAM	25	0	17.71	17.56	17.70	17.70	17.57	
5	64QAM	1	0	17.90	17.77	17.85	17.78	17.72	19
5	64QAM	1	12	17.76	17.74	17.80	17.72	17.57	
5	64QAM	1	24	17.71	17.67	17.78	17.74	17.64	
5	64QAM	12	0	17.67	17.73	17.73	17.59	17.50	19
5	64QAM	12	7	17.52	17.53	17.55	17.60	17.67	
5	64QAM	12	13	17.74	17.73	17.60	17.70	17.57	
5	64QAM	25	0	17.66	17.53	17.55	17.53	17.48	
5	256QAM	1	0	14.70	14.67	14.63	14.42	14.51	15.5
5	256QAM	1	12	14.47	14.40	14.54	14.58	14.70	
5	256QAM	1	24	14.58	14.61	14.51	14.45	14.31	
5	256QAM	12	0	13.52	13.52	13.65	13.49	13.61	14.5
5	256QAM	12	7	13.48	13.51	13.66	13.67	13.72	
5	256QAM	12	13	13.44	13.52	13.44	13.40	13.40	
5	256QAM	25	0	13.41	13.38	13.67	13.39	13.43	

n48 (PC3)_ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.97	18.96	18.97	18.85	18.66	20.00
40		1	53	18.92	18.81	18.88	18.72	18.56	
40		1	104	18.90	18.89	18.84	18.74	18.65	
40		50	1	18.45	18.47	18.43	18.37	18.17	20.00
40		50	25	18.97	18.87	18.84	18.77	18.65	
40		50	50	18.44	18.32	18.29	18.21	18.10	
40		100	0	18.38	18.38	18.38	18.29	18.13	
40	DFT-s-OFDM QPSK	1	1	19.28	19.14	19.29	19.17	19.18	20.00
40		1	53	18.91	18.77	18.80	18.70	18.58	
40		1	104	18.89	18.83	18.84	18.72	18.65	
40		50	1	17.91	17.97	18.02	17.98	17.86	20.00
40		50	25	18.92	18.85	18.84	18.76	18.64	
40		50	50	17.92	17.80	17.75	17.72	17.63	
40		100	0	18.42	18.38	18.43	18.30	18.16	
40	DFT-s-OFDM 16QAM	1	1	17.84	17.77	17.91	17.79	17.62	15.00
40	DFT-s-OFDM 64QAM	1	1	16.17	16.11	16.25	16.18	15.94	18.50
40	DFT-s-OFDM 256QAM	1	1	14.33	14.27	14.33	14.25	14.07	16.00
40	CP-OFDM QPSK	1	1	17.54	17.50	17.49	17.33	17.18	19.50
40	CP-OFDM 16QAM	1	1	16.98	16.99	16.99	16.80	16.67	19.00
40	CP-OFDM 64QAM	1	1	15.51	15.04	15.39	15.25	15.07	17.00
40	CP-OFDM 256QAM	1	1	12.40	12.32	12.40	12.26	12.12	14.00
Channel				637668	639668	641666	643666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	18.70	18.97	18.76	18.32	18.78	16.00
Channel				637334	639500	641666	643832	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	18.94	18.88	18.85	18.62	18.60	16.00
Channel				637000	639334	641666	644000	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	18.30	18.54	18.39	18.58	18.32	16.00

n77(3450-3550MHz)(PC2)_ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			17.02			18.50
100		1	136			17.45			
100		1	271			17.77			
100		135	1			16.78			18.00
100		135	67			17.42			
100		135	136			17.15			
100		270	0			16.97			
100	DFT-s-OFDM QPSK	1	1			17.80			18.50
100		1	136			17.40			
100		1	271			17.75			
100		135	1			17.49			18.00
100		135	67			17.47			
100		135	136			16.67			
100		270	0			17.11			
100	DFT-s-OFDM 16QAM	1	1			16.11			17.00
100	DFT-s-OFDM 64QAM	1	1			14.46			15.00
100	DFT-s-OFDM 256QAM	1	1			12.37			13.00
100	CP-OFDM QPSK	1	1			15.43			16.00
100	CP-OFDM 16QAM	1	1			15.01			16.00
100	CP-OFDM 64QAM	1	1			13.59			14.50
100	CP-OFDM 256QAM	1	1			10.44			11.00
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	16.99	16.97	17.06	17.14	17.20	18.00
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.15	17.26	17.28	17.41	17.57	18.50
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	17.52	17.41	17.66	17.75	17.59	19.00
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	17.33	17.62	17.58	17.59	17.71	19.00
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	17.32	17.50	17.56	17.77	17.78	18.50

n77(3450-3550MHz)(PC3)_ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			16.51			18.50
100		1	136			16.94			
100		1	271			17.40			
100		135	1			16.77			18.50
100		135	67			16.96			
100		135	136			17.15			
100		270	0			16.93			
100	DFT-s-OFDM QPSK	1	1			17.69			18.50
100		1	136			16.86			
100		1	271			17.31			
100		135	1			16.94			18.00
100		135	67			16.90			
100		135	136			17.11			
100		270	0			16.88			
100	DFT-s-OFDM 16QAM	1	1			16.60			17.50
100	DFT-s-OFDM 64QAM	1	1			16.50			17.50
100	DFT-s-OFDM 256QAM	1	1			14.84			15.50
100	CP-OFDM QPSK	1	1			16.46			17.00
100	CP-OFDM 16QAM	1	1			16.51			17.50
100	CP-OFDM 64QAM	1	1			16.02			17.00
100	CP-OFDM 256QAM	1	1			12.90			13.50
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	16.39	16.32	16.50	16.30	16.30	17.50
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	165.00	16.80	16.90	16.30	16.80	18.00
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	16.93	17.04	17.24	17.41	17.35	18.50
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	16.88	17.13	17.34	17.36	17.30	18.50
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	16.79	16.92	17.19	17.35	17.48	18.00

n77(3700-3980MHz)(PC2)_ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	16.96	16.64	16.95	16.95	17.09	18.50
100		1	136	17.18	17.05	17.12	17.03	17.28	
100		1	271	17.08	17.25	17.05	17.43	17.27	
100		135	1	16.63	16.40	16.65	16.62	16.83	18.00
100		135	67	17.26	17.16	17.14	17.15	17.38	
100		135	136	16.67	16.69	16.64	16.77	16.89	
100		270	0	16.68	16.59	16.70	16.68	16.83	
100	DFT-s-OFDM QPSK	1	1	17.60	17.65	17.76	17.68	17.67	18.50
100		1	136	17.18	17.09	17.13	17.05	17.43	
100		1	271	17.08	17.27	17.19	17.55	17.29	
100		135	1	16.52	16.54	16.61	16.58	16.55	17.50
100		135	67	16.43	16.29	16.35	16.34	16.59	
100		135	136	16.15	16.19	16.16	16.23	16.35	
100		270	0	16.17	16.09	16.37	16.17	16.34	
100	DFT-s-OFDM 16QAM	1	1	15.85	15.53	15.86	15.88	16.00	17.00
100	DFT-s-OFDM 64QAM	1	1	14.29	13.94	14.30	14.21	14.22	15.00
100	DFT-s-OFDM 256QAM	1	1	12.33	12.03	12.35	12.41	12.42	13.00
100	CP-OFDM QPSK	1	1	15.41	15.11	15.51	15.47	15.58	16.50
100	CP-OFDM 16QAM	1	1	14.96	14.65	15.01	15.06	15.05	16.00
100	CP-OFDM 64QAM	1	1	13.37	13.04	13.45	13.47	13.61	14.50
100	CP-OFDM 256QAM	1	1	10.42	10.12	10.42	10.46	10.54	11.50
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	16.89	16.71	16.96	16.99	17.21	18.00
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	17.09	16.78	17.17	17.22	17.32	18.00
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	17.62	17.49	17.55	17.47	17.42	18.50
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	17.35	17.27	17.48	17.58	17.69	18.50
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	17.33	17.33	17.47	17.54	17.63	18.50

n77(3700-3980MHz)(PC3)_ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	17.06	16.68	17.00	17.00	17.07	18.50
100		1	136	17.22	17.11	17.22	17.13	17.37	
100		1	271	17.03	17.31	17.11	17.51	17.36	
100		135	1	17.19	16.94	17.14	17.11	17.30	18.50
100		135	67	17.26	17.05	17.13	17.12	17.37	
100		135	136	17.15	17.14	17.18	17.23	17.45	
100		270	0	17.17	17.03	17.19	17.18	17.35	
100	DFT-s-OFDM QPSK	1	1	17.52	17.63	17.70	17.55	17.52	18.50
100		1	136	17.23	17.14	17.19	17.13	17.37	
100		1	271	17.04	17.31	17.15	17.51	17.34	
100		135	1	17.12	16.91	17.36	17.07	17.27	18.00
100		135	67	17.22	17.05	17.14	17.13	17.31	
100		135	136	17.15	17.11	17.14	17.23	17.35	
100		270	0	17.16	17.01	17.30	17.16	17.29	
100	DFT-s-OFDM 16QAM	1	1	17.12	16.73	17.16	17.10	17.13	18.00
100	DFT-s-OFDM 64QAM	1	1	17.10	16.71	17.02	17.02	17.10	18.00
100	DFT-s-OFDM 256QAM	1	1	15.42	15.01	15.36	15.35	15.45	16.00
100	CP-OFDM QPSK	1	1	17.00	16.66	17.02	16.99	17.09	18.00
100	CP-OFDM 16QAM	1	1	17.04	16.72	17.02	16.96	17.05	18.00
100	CP-OFDM 64QAM	1	1	16.68	16.29	16.61	16.56	16.61	17.50
100	CP-OFDM 256QAM	1	1	13.52	13.15	13.44	13.45	13.51	14.50
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	17.08	16.89	17.03	17.08	17.27	18.00
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	17.19	16.97	17.18	17.37	17.51	18.50
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	17.69	17.54	17.58	17.63	17.56	18.50
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	17.41	17.29	17.52	17.59	17.65	18.50
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	17.38	17.27	17.43	17.54	17.60	18.50

n78(3450-3550MHz)(PC2)_ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			19.02			21.00
100		1	136			19.57			
100		1	271			19.80			
100		135	1			18.87			20.50
100		135	67			19.66			
100		135	136			19.20			
100		270	0			19.07			
100	DFT-s-OFDM QPSK	1	1			20.06			21.00
100		1	136			19.58			
100		1	271			19.83			
100		135	1			19.56			20.00
100		135	67			19.62			
100		135	136			18.72			
100		270	0			18.55			
100	DFT-s-OFDM 16QAM	1	1			18.06			19.00
100	DFT-s-OFDM 64QAM	1	1			16.55			17.50
100	DFT-s-OFDM 256QAM	1	1			14.54			15.50
100	CP-OFDM QPSK	1	1			17.60			18.50
100	CP-OFDM 16QAM	1	1			17.03			18.00
100	CP-OFDM 64QAM	1	1			15.64			16.50
100	CP-OFDM 256QAM	1	1			12.53			13.50
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	19.02	19.06	19.15	19.14	19.14	20.00
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	19.06	19.06	19.17	19.30	19.26	20.00
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	19.11	19.25	19.29	19.39	19.54	20.50
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	19.26	19.31	19.49	19.62	19.64	20.50
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	19.00	19.30	19.46	19.67	19.64	20.50
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	19.66	19.69	19.87	19.99	20.05	21.00
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	19.52	19.77	19.85	20.02	20.09	21.00
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	19.56	19.66	19.80	20.00	20.05	21.00

n78(3450-3550MHz)(PC3)_ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			19.04			21.00
100		1	136			19.62			
100		1	271			19.85			
100		135	1			19.33			20.00
100		135	67			19.58			
100		135	136			19.65			
100		270	0			19.55			
100	DFT-s-OFDM QPSK	1	1			20.17			21.00
100		1	136			19.52			
100		1	271			19.78			
100		135	1			19.14			20.00
100		135	67			19.61			
100		135	136			19.37			
100		270	0			19.11			
100	DFT-s-OFDM 16QAM	1	1			19.06			20.00
100	DFT-s-OFDM 64QAM	1	1			19.04			20.00
100	DFT-s-OFDM 256QAM	1	1			17.44			18.00
100	CP-OFDM QPSK	1	1			18.99			19.50
100	CP-OFDM 16QAM	1	1			19.06			20.00
100	CP-OFDM 64QAM	1	1			18.65			19.50
100	CP-OFDM 256QAM	1	1			15.48			16.00
Channel				633000	633167	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.51	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	19.07	19.02	19.05	19.10	19.19	20.00
Channel				632668	633001	633334	633667	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495.01	3500.01	3505.01	3510	
80	DFT-s-OFDM QPSK	1	1	19.13	18.91	19.16	19.27	19.38	20.00
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	19.09	19.21	19.17	19.37	19.53	20.50
Channel				632000	632667	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.01	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	19.25	19.27	19.43	19.59	19.66	20.50
Channel				631668	632501	633334	634167	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.51	3500.01	3512.51	3525	
50	DFT-s-OFDM QPSK	1	1	19.09	19.19	19.49	19.62	19.66	20.50
Channel				631334	636672	633334	634333	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.99	3529.98	
40	DFT-s-OFDM QPSK	1	1	19.53	19.59	19.83	19.92	20.09	21.00
Channel				631000	632167	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.51	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	19.33	19.68	19.93	19.90	20.06	21.00
Channel				630668	632001	633334	634667	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480.01	3500.01	3520.01	3540	
20	DFT-s-OFDM QPSK	1	1	19.51	19.64	19.82	19.93	20.08	21.00

n78(3700-3800MHz)(PC2)_ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.96			20.50
100		1	136			19.18			
100		1	271			19.06			
100		135	1			18.64			20.00
100		135	67			19.20			
100		135	136			18.68			
100		270	0			18.68			
100	DFT-s-OFDM QPSK	1	1			19.90			20.50
100		1	136			19.21			
100		1	271			19.07			
100		135	1			19.20			20.00
100		135	67			19.21			
100		135	136			18.18			
100		270	0			18.17			
100	DFT-s-OFDM 16QAM	1	1			17.77			18.50
100	DFT-s-OFDM 64QAM	1	1			16.15			17.00
100	DFT-s-OFDM 256QAM	1	1			14.27			15.00
100	CP-OFDM QPSK	1	1			17.52			18.50
100	CP-OFDM 16QAM	1	1			16.90			17.50
100	CP-OFDM 64QAM	1	1			15.33			16.00
100	CP-OFDM 256QAM	1	1			12.34			13.00
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	18.87	18.82	18.94	18.96	19.08	20.00
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	18.88	19.07	18.96	18.87	19.06	20.00
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	18.94	19.00	19.10	19.02	18.99	20.00
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	19.02	19.03	19.10	19.11	19.27	20.00
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	19.03	19.03	19.13	19.30	19.41	20.00
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	19.51	19.46	19.63	19.61	19.76	20.50
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	19.30	19.49	19.51	19.63	19.75	20.50
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	19.32	19.47	19.49	19.62	19.60	20.50

n78(3700-3800MHz)(PC3)_ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.94			20.5
100		1	136			19.18			
100		1	271			19.05			
100		135	1			19.13			20
100		135	67			19.18			
100		135	136			19.12			
100		270	0			19.15			
100	DFT-s-OFDM QPSK	1	1			19.80			20.5
100		1	136			19.18			
100		1	271			18.97			
100		135	1			19.20			20
100		135	67			19.19			
100		135	136			19.09			
100		270	0			19.15			
100	DFT-s-OFDM 16QAM	1	1			19.05			20.00
100	DFT-s-OFDM 64QAM	1	1			18.95			19.50
100	DFT-s-OFDM 256QAM	1	1			17.26			18.00
100	CP-OFDM QPSK	1	1			18.91			19.50
100	CP-OFDM 16QAM	1	1			18.91			19.50
100	CP-OFDM 64QAM	1	1			18.48			19.00
100	CP-OFDM 256QAM	1	1			15.41			16.00
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	18.89	18.93	19.00	19.04	19.05	20.00
Channel				649334	649667	650000	650333	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3745.01	3750	3754.99	3759.99	
80	DFT-s-OFDM QPSK	1	1	18.95	19.03	18.94	18.82	19.09	20.00
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	18.87	19.10	18.92	19.01	19.04	20.00
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	19.10	19.02	19.13	19.08	19.25	20.00
Channel				648334	649167	650000	650833	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.51	3750	3762.49	3774.99	
50	DFT-s-OFDM QPSK	1	1	19.06	19.05	19.13	19.30	19.45	20.00
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	19.51	19.51	19.65	19.62	19.88	20.50
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	19.29	19.50	19.55	19.66	19.76	20.50
Channel				647334	648667	650000	651333	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3730.01	3750	3769.99	3789.99	
20	DFT-s-OFDM QPSK	1	1	19.30	19.38	19.34	19.59	19.59	20.50

CA_48C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	18.35	19.00
55990	55891	56089	QPSK	1	0	0	0	1	0	18.40	19.00
56640	56442	56640	QPSK	1	0	0	0	1	0	18.31	19.00
55340	55340	55538	16QAM	1	0	0	0	1	0	18.29	19.00
55990	55891	56089	16QAM	1	0	0	0	1	0	18.35	19.00
56640	56442	56640	16QAM	1	0	0	0	1	0	18.27	19.00
55340	55340	55538	64QAM	1	0	0	0	1	0	18.23	19.00
55990	55891	56089	64QAM	1	0	0	0	1	0	18.24	19.00
56640	56442	56640	64QAM	1	0	0	0	1	0	18.21	19.00
55340	55340	55538	256QAM	1	0	0	0	1	0	17.88	18.50
55990	55891	56089	256QAM	1	0	0	0	1	0	17.86	18.50
56640	56442	56640	256QAM	1	0	0	0	1	0	17.93	18.50
55340	55340	55538	QPSK	50	0	0	0	1	0	16.88	17.50
55990	55891	56089	QPSK	50	0	0	0	1	0	16.95	17.50
56640	56442	56640	QPSK	50	0	0	0	1	0	16.90	17.50

Reduced Power Level 2 for ANT 0 & ANT 1 & ANT 2 & ANT 3 & ANT 4

Band		WCDMA Band II (dBm)_ANT 0			Tune-up Limit (dBm)	WCDMA Band V (dBm)_ANT 4			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		4132	4182	4233	
Rx Channel		9662	9800	9938		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	20.04	20.11	20.05	21.00	20.01	20.07	20.04	21.00
3GPP Rel 5	HSDPA Subtest-1	19.63	19.58	19.36	20.50	19.18	19.22	19.13	20.00
3GPP Rel 5	HSDPA Subtest-2	19.60	19.53	19.48	17.50	19.20	19.07	19.11	20.00
3GPP Rel 5	HSDPA Subtest-3	19.18	19.06	18.87	17.00	18.57	18.60	18.63	16.50
3GPP Rel 5	HSDPA Subtest-4	19.18	19.06	18.83	17.00	18.71	18.61	18.46	16.50
3GPP Rel 6	HSUPA Subtest-1	19.68	19.63	19.52	20.50	19.13	19.20	19.03	20.00
3GPP Rel 6	HSUPA Subtest-2	19.22	19.07	18.96	20.00	18.60	18.67	18.70	19.50
3GPP Rel 6	HSUPA Subtest-3	19.67	19.62	19.59	20.50	19.06	19.17	19.08	20.00
3GPP Rel 6	HSUPA Subtest-4	19.70	19.62	19.47	20.50	19.18	19.13	19.01	20.00
3GPP Rel 6	HSUPA Subtest-5	19.69	19.57	19.45	20.50	19.14	19.22	19.14	20.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.69	19.59	19.39	20.50	19.46	19.14	18.96	20.00
Attenuator			Cable Loss	0.8			Cable Loss	0.6	

Band 2 (1900MHz Band) (dBm)_ANT 0
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	16.77	16.81	16.74	
20	QPSK	1	49	16.71	16.76	16.69	18
20	QPSK	1	99	16.72	16.70	16.65	
20	QPSK	50	0	15.86	15.90	15.84	
20	QPSK	50	24	15.75	15.82	15.77	17
20	QPSK	50	50	15.70	15.79	15.68	
20	QPSK	100	0	15.74	15.76	15.71	
20	16QAM	1	0	15.96	16.02	15.97	
20	16QAM	1	49	15.92	15.95	15.89	17
20	16QAM	1	99	15.85	15.93	15.86	
20	16QAM	50	0	14.82	14.91	14.87	
20	16QAM	50	24	14.75	14.85	14.79	15.5
20	16QAM	50	50	14.68	14.82	14.75	
20	16QAM	100	0	14.73	14.77	14.80	
20	64QAM	1	0	14.84	14.89	14.83	
20	64QAM	1	49	14.77	14.84	14.75	15.5
20	64QAM	1	99	14.71	14.73	14.70	
20	64QAM	50	0	13.77	13.85	13.79	
20	64QAM	50	24	13.68	13.70	13.82	14.5
20	64QAM	50	50	13.73	13.78	13.74	
20	64QAM	100	0	13.65	13.73	13.68	
20	256QAM	1	0	11.90	11.95	11.69	
20	256QAM	1	49	11.68	11.88	11.86	13
20	256QAM	1	99	11.86	11.73	11.71	
20	256QAM	50	0	10.72	10.85	10.74	
20	256QAM	50	24	10.68	10.83	10.88	12
20	256QAM	50	50	10.81	10.79	10.66	
20	256QAM	100	0	10.72	10.82	10.63	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	16.75	16.77	16.71	
15	QPSK	1	37	16.59	16.74	16.66	18
15	QPSK	1	74	16.73	16.71	16.65	
15	QPSK	36	0	15.75	15.81	15.89	
15	QPSK	36	20	15.70	15.73	15.68	17
15	QPSK	36	39	15.66	15.74	15.70	
15	QPSK	75	0	15.67	15.65	15.69	
15	16QAM	1	0	15.95	16.02	16.01	
15	16QAM	1	37	15.97	15.93	15.85	17
15	16QAM	1	74	15.79	15.78	15.82	
15	16QAM	36	0	14.68	14.94	14.91	
15	16QAM	36	20	14.61	14.78	14.86	15.5
15	16QAM	36	39	14.72	14.78	14.80	
15	16QAM	75	0	14.76	14.64	14.69	
15	64QAM	1	0	14.78	14.89	14.85	
15	64QAM	1	37	14.61	14.84	14.69	15.5
15	64QAM	1	74	14.69	14.62	14.61	
15	64QAM	36	0	13.60	13.81	13.83	
15	64QAM	36	20	13.66	13.77	13.77	14.5
15	64QAM	36	39	13.57	13.81	13.72	
15	64QAM	75	0	13.62	13.77	13.56	
15	256QAM	1	0	11.88	11.92	11.70	
15	256QAM	1	37	11.63	11.84	11.92	13
15	256QAM	1	74	11.66	11.67	11.55	
15	256QAM	36	0	10.57	10.90	10.77	
15	256QAM	36	20	10.63	10.68	10.85	12
15	256QAM	36	39	10.65	10.61	10.66	
15	256QAM	75	0	10.59	10.75	10.60	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	16.72	16.75	16.67	
10	QPSK	1	25	16.65	16.73	16.70	18
10	QPSK	1	49	16.60	16.68	16.63	
10	QPSK	25	0	15.82	15.80	15.85	
10	QPSK	25	12	15.64	15.77	15.80	17
10	QPSK	25	25	15.77	15.67	15.62	
10	QPSK	50	0	15.63	15.83	15.73	
10	16QAM	1	0	15.95	16.07	15.92	
10	16QAM	1	25	15.84	16.01	15.97	17
10	16QAM	1	49	15.69	15.92	15.92	
10	16QAM	25	0	14.73	14.83	14.81	
10	16QAM	25	12	14.68	14.85	14.84	15.5
10	16QAM	25	25	14.63	14.86	14.61	
10	16QAM	50	0	14.62	14.74	14.85	
10	64QAM	1	0	14.92	14.75	14.82	
10	64QAM	1	25	14.72	14.82	14.69	15.5
10	64QAM	1	49	14.65	14.72	14.74	
10	64QAM	25	0	13.66	13.81	13.65	
10	64QAM	25	12	13.68	13.73	13.69	14.5
10	64QAM	25	25	13.78	13.65	13.73	
10	64QAM	50	0	13.72	13.77	13.66	
10	256QAM	1	0	11.74	11.91	11.61	
10	256QAM	1	25	11.67	11.88	11.88	13
10	256QAM	1	49	11.77	11.62	11.64	
10	256QAM	25	0	10.73	10.80	10.76	
10	256QAM	25	12	10.56	10.81	10.84	12
10	256QAM	25	25	10.74	10.62	10.53	
10	256QAM	50	0	10.59	10.81	10.67	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.75	16.76	16.71	
5	QPSK	1	12	16.74	16.72	16.61	18
5	QPSK	1	24	16.68	16.72	16.64	
5	QPSK	12	0	15.79	15.92	15.90	
5	QPSK	12	7	15.75	15.84	15.74	17
5	QPSK	12	13	15.60	15.65	15.61	
5	QPSK	25	0	15.81	15.74	15.75	
5	16QAM	1	0	15.98	15.90	15.99	
5	16QAM	1	12	15.80	15.98	15.85	17

Band 4 (AWS Band) (dBm)_ANT 0
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	17.78	17.85	17.72	
20	QPSK	1	49	17.60	17.76	17.58	19
20	QPSK	1	99	17.79	17.70	17.67	
20	QPSK	50	0	16.88	16.90	16.86	
20	QPSK	50	24	16.65	16.82	16.71	18
20	QPSK	50	50	16.74	16.89	16.73	
20	QPSK	100	0	16.65	16.81	16.79	
20	16QAM	1	0	17.06	17.06	16.83	
20	16QAM	1	49	16.82	16.86	16.90	18
20	16QAM	1	99	16.82	16.82	16.73	
20	16QAM	50	0	15.88	15.83	15.87	
20	16QAM	50	24	15.75	15.87	15.65	17
20	16QAM	50	50	15.60	15.69	15.78	
20	16QAM	100	0	15.79	15.77	15.73	
20	64QAM	1	0	15.89	15.89	15.90	
20	64QAM	1	49	15.82	15.83	15.83	17
20	64QAM	1	99	15.57	15.75	15.65	
20	64QAM	50	0	14.80	14.76	14.77	
20	64QAM	50	24	14.54	14.67	14.85	15.5
20	64QAM	50	50	14.79	14.69	14.71	
20	64QAM	100	0	14.56	14.67	14.74	
20	256QAM	1	0	12.79	12.85	12.70	
20	256QAM	1	49	12.75	12.92	12.95	13.5
20	256QAM	1	99	12.78	12.74	12.66	
20	256QAM	50	0	11.62	11.84	11.85	
20	256QAM	50	24	11.58	11.85	11.77	12.5
20	256QAM	50	50	11.84	11.70	11.72	
20	256QAM	100	0	11.60	11.82	11.51	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.75	17.82	17.76	
15	QPSK	1	37	17.58	17.72	17.74	19
15	QPSK	1	74	17.76	17.67	17.62	
15	QPSK	36	0	16.73	16.78	16.88	
15	QPSK	36	20	16.78	16.93	16.83	18
15	QPSK	36	39	16.72	16.75	16.65	
15	QPSK	75	0	16.84	16.72	16.74	
15	16QAM	1	0	17.00	17.10	16.83	
15	16QAM	1	37	16.93	16.89	16.91	18
15	16QAM	1	74	16.76	16.89	16.75	
15	16QAM	36	0	15.70	16.01	15.79	
15	16QAM	36	20	15.82	15.78	15.83	17
15	16QAM	36	39	15.77	15.87	15.63	
15	16QAM	75	0	15.72	15.83	15.66	
15	64QAM	1	0	15.79	15.99	15.94	
15	64QAM	1	37	15.70	15.70	15.76	17
15	64QAM	1	74	15.77	15.74	15.62	
15	64QAM	36	0	14.85	14.95	14.73	
15	64QAM	36	20	14.70	14.78	14.76	15.5
15	64QAM	36	39	14.71	14.78	14.73	
15	64QAM	75	0	14.62	14.72	14.58	
15	256QAM	1	0	12.84	12.86	12.63	
15	256QAM	1	37	12.65	12.81	12.79	13.5
15	256QAM	1	74	12.71	12.75	12.57	
15	256QAM	36	0	11.67	11.85	11.68	
15	256QAM	36	20	11.72	11.88	11.65	12.5
15	256QAM	36	39	11.69	11.76	11.56	
15	256QAM	75	0	11.68	11.87	11.62	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	17.72	17.77	17.74	
10	QPSK	1	25	17.55	17.69	17.64	19
10	QPSK	1	49	17.69	17.60	17.49	
10	QPSK	25	0	16.70	16.90	16.74	
10	QPSK	25	12	16.62	16.82	16.69	18
10	QPSK	25	25	16.70	16.86	16.74	
10	QPSK	50	0	16.59	16.84	16.70	
10	16QAM	1	0	16.80	16.91	16.93	
10	16QAM	1	25	16.95	16.80	16.73	18
10	16QAM	1	49	16.88	16.79	16.85	
10	16QAM	25	0	15.66	15.89	15.73	
10	16QAM	25	12	15.75	15.74	15.75	17
10	16QAM	25	25	15.75	15.84	15.83	
10	16QAM	50	0	15.61	15.80	15.88	
10	64QAM	1	0	15.71	15.93	15.80	
10	64QAM	1	25	15.60	15.86	15.68	17
10	64QAM	1	49	15.70	15.71	15.73	
10	64QAM	25	0	14.77	14.80	14.82	
10	64QAM	25	12	14.55	14.70	14.87	15.5
10	64QAM	25	25	14.62	14.76	14.59	
10	64QAM	50	0	14.58	14.71	14.65	
10	256QAM	1	0	12.82	12.92	12.72	
10	256QAM	1	25	12.66	12.78	12.77	13.5
10	256QAM	1	49	12.76	12.66	12.74	
10	256QAM	25	0	11.66	11.85	11.73	
10	256QAM	25	12	11.68	11.70	11.81	12.5
10	256QAM	25	25	11.70	11.58	11.60	
10	256QAM	50	0	11.72	11.74	11.58	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	17.69	17.78	17.75	
5	QPSK	1	12	17.69	17.65	17.64	19
5	QPSK	1	24	17.61	17.65	17.69	
5	QPSK	12	0	16.72	16.89	16.72	
5	QPSK	12	7	16.74	16.88	16.68	18
5	QPSK	12	13	16.78	16.62	16.59	
5	QPSK	25	0	16.79	16.64	16.70	
5	16QAM	1	0	16.81	17.05	16.81	
5	16QAM	1	12	16.97	16.97	16.77	18

5	16QAM	1	24	15.77	15.91	15.79	
5	16QAM	12	0	14.68	14.91	14.95	15.5
5	16QAM	12	7	14.80	14.72	14.86	
5	16QAM	12	13	14.66	14.70	14.64	
5	16QAM	25	0	14.59	14.81	14.71	
5	64QAM	1	0	14.76	14.87	14.68	15.5
5	64QAM	1	12	14.78	14.77	14.83	
5	64QAM	1	24	14.67	14.80	14.54	
5	64QAM	12	0	13.61	13.76	13.73	14.5
5	64QAM	12	7	13.73	13.64	13.72	
5	64QAM	12	13	13.79	13.71	13.60	
5	64QAM	25	0	13.58	13.59	13.57	
5	256QAM	1	0	11.79	11.96	11.70	13
5	256QAM	1	12	11.69	11.84	11.83	
5	256QAM	1	24	11.69	11.64	11.60	
5	256QAM	12	0	10.68	10.83	10.79	12
5	256QAM	12	7	10.73	10.87	10.79	
5	256QAM	12	13	10.78	10.66	10.56	
5	256QAM	25	0	10.69	10.84	10.57	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	16.69	16.72	16.68	18
3	QPSK	1	8	16.56	16.60	16.65	
3	QPSK	1	14	16.63	16.68	16.64	
3	QPSK	8	0	15.82	15.73	15.68	17
3	QPSK	8	4	15.70	15.74	15.66	
3	QPSK	8	7	15.68	15.83	15.59	
3	QPSK	15	0	15.75	15.61	15.59	
3	16QAM	1	0	15.79	15.98	15.92	17
3	16QAM	1	8	15.78	15.95	15.90	
3	16QAM	1	14	15.91	15.77	15.72	
3	16QAM	8	0	14.71	14.83	14.78	15.5
3	16QAM	8	4	14.80	14.92	14.75	
3	16QAM	8	7	14.68	14.89	14.61	
3	16QAM	15	0	14.57	14.63	14.71	
3	64QAM	1	0	14.73	14.82	14.80	15.5
3	64QAM	1	8	14.66	14.91	14.81	
3	64QAM	1	14	14.74	14.78	14.58	
3	64QAM	8	0	13.84	13.90	13.83	14.5
3	64QAM	8	4	13.70	13.72	13.72	
3	64QAM	8	7	13.59	13.75	13.73	
3	64QAM	15	0	13.73	13.79	13.67	
3	256QAM	1	0	11.92	11.91	11.61	13
3	256QAM	1	8	11.72	11.73	11.94	
3	256QAM	1	14	11.74	11.65	11.75	
3	256QAM	8	0	10.78	10.94	10.67	12
3	256QAM	8	4	10.67	10.78	10.75	
3	256QAM	8	7	10.81	10.60	10.59	
3	256QAM	15	0	10.70	10.79	10.59	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	16.69	16.76	16.68	18
1.4	QPSK	1	3	16.55	16.62	16.67	
1.4	QPSK	1	5	16.73	16.67	16.67	
1.4	QPSK	3	0	15.88	15.92	15.67	
1.4	QPSK	3	1	15.82	15.87	15.67	
1.4	QPSK	3	3	15.71	15.79	15.67	
1.4	QPSK	6	0	15.67	15.62	15.57	17
1.4	16QAM	1	0	16.02	15.85	15.99	17
1.4	16QAM	1	3	15.81	15.88	15.72	
1.4	16QAM	1	5	15.87	15.78	15.76	
1.4	16QAM	3	0	14.71	14.91	14.80	
1.4	16QAM	3	1	14.77	14.70	14.77	
1.4	16QAM	3	3	14.71	14.66	14.64	
1.4	16QAM	6	0	14.72	14.71	14.63	15.5
1.4	64QAM	1	0	14.68	14.91	14.76	15.5
1.4	64QAM	1	3	14.83	14.76	14.61	
1.4	64QAM	1	5	14.70	14.78	14.58	
1.4	64QAM	3	0	13.72	13.71	13.71	
1.4	64QAM	3	1	13.69	13.78	13.87	
1.4	64QAM	3	3	13.68	13.77	13.80	
1.4	64QAM	6	0	13.72	13.69	13.68	14.5
1.4	256QAM	1	0	11.77	11.88	11.62	13
1.4	256QAM	1	3	11.65	11.78	11.87	
1.4	256QAM	1	5	11.70	11.62	11.57	
1.4	256QAM	3	0	10.73	10.83	10.68	
1.4	256QAM	3	1	10.73	10.83	10.94	
1.4	256QAM	3	3	10.69	10.70	10.56	
1.4	256QAM	6	0	10.71	10.74	10.60	12

5	16QAM	1	24	16.69	16.92	16.92	
5	16QAM	12	0	15.69	15.97	15.81	17
5	16QAM	12	7	15.83	15.93	15.81	
5	16QAM	12	13	15.76	15.74	15.62	
5	16QAM	25	0	15.56	15.67	15.86	
5	64QAM	1	0	15.84	15.77	15.79	17
5	64QAM	1	12	15.79	15.72	15.69	
5	64QAM	1	24	15.76	15.75	15.68	
5	64QAM	12	0	14.66	14.80	14.75	15.5
5	64QAM	12	7	14.59	14.68	14.76	
5	64QAM	12	13	14.72	14.74	14.61	
5	64QAM	25	0	14.72	14.66	14.53	
5	256QAM	1	0	12.79	13.00	12.63	13.5
5	256QAM	1	12	12.69	12.71	12.73	
5	256QAM	1	24	12.73	12.66	12.77	
5	256QAM	12	0	11.59	11.86	11.77	12.5
5	256QAM	12	7	11.64	11.74	11.84	
5	256QAM	12	13	11.78	11.60	11.59	
5	256QAM	25	0	11.67	11.87	11.74	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	17.73	17.74	17.67	19
3	QPSK	1	8	17.72	17.70	17.69	
3	QPSK	1	14	17.65	17.56	17.50	
3	QPSK	8	0	16.89	16.82	16.81	18
3	QPSK	8	4	16.59	16.67	16.80	
3	QPSK	8	7	16.72	16.63	16.53	
3	QPSK	15	0	16.77	16.80	16.64	
3	16QAM	1	0	16.89	17.01	17.02	18
3	16QAM	1	8	16.94	16.84	16.97	
3	16QAM	1	14	16.91	16.87	16.94	
3	16QAM	8	0	15.86	15.88	15.85	17
3	16QAM	8	4	15.69	15.75	15.87	
3	16QAM	8	7	15.72	15.76	15.60	
3	16QAM	15	0	15.76	15.64	15.74	
3	64QAM	1	0	15.73	15.86	15.70	17
3	64QAM	1	8	15.70	15.90	15.80	
3	64QAM	1	14	15.68	15.65	15.54	
3	64QAM	8	0	14.68	14.78	14.82	15.5
3	64QAM	8	4	14.61	14.73	14.80	
3	64QAM	8	7	14.71	14.66	14.65	
3	64QAM	15	0	14.50	14.75	14.60	
3	256QAM	1	0	12.80	12.88	12.62	13.5
3	256QAM	1	8	12.74	12.75	12.89	
3	256QAM	1	14	12.76	12.58	12.54	
3	256QAM	8	0	11.65	11.80	11.81	12.5
3	256QAM	8	4	11.71	11.71	11.79	
3	256QAM	8	7	11.64	11.61	11.58	
3	256QAM	15	0	11.65	11.86	11.62	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	17.72	17.75	17.70	19
1.4	QPSK	1	3	17.71	17.68	17.61	
1.4	QPSK	1	5	17.62	17.72	17.64	
1.4	QPSK	3	0	16.94	16.87	16.85	
1.4	QPSK	3	1	16.64	16.80	16.79	
1.4	QPSK	3	3	16.69	16.69	16.73	
1.4	QPSK	6	0	16.79	16.79	16.60	18
1.4	16QAM	1	0	16.92	16.87	16.80	18
1.4	16QAM	1	3	16.84	16.89	16.83	
1.4	16QAM	1	5	16.93	16.93	16.78	
1.4	16QAM	3	0	15.78	15.92	15.77	
1.4	16QAM	3	1	15.71	15.68	15.84	
1.4	16QAM	3	3	15.74	15.77	15.79	
1.4	16QAM	6	0	15.68	15.77	15.88	17
1.4	64QAM	1	0	15.80	15.83	15.82	17
1.4	64QAM	1	3	15.81	15.90	15.75	
1.4	64QAM	1	5	15.69	15.74	15.69	
1.4	64QAM	3	0	14.82	14.72	14.65	
1.4	64QAM	3	1	14.67	14.69	14.68	
1.4	64QAM	3	3	14.69	14.71	14.67	
1.4	64QAM	6	0	14.69	14.71	14.52	15.5
1.4	256QAM	1	0	12.90	12.86	12.64	13.5
1.4	256QAM	1	3	12.58	12.75	12.84	
1.4	256QAM	1	5	12.71	12.66	12.62	
1.4	256QAM	3	0	11.70	11.81	11.70	
1.4	256QAM	3	1	11.58	11.67	11.87	
1.4	256QAM	3	3	11.79	11.61	11.63	
1.4	256QAM	6	0	11.70	11.79	11.60	12.5

Band 2 (1900MHz Band) (dBm)_ANT 1
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	18.06	18.10	18.03	
20	QPSK	1	49	18.00	18.05	17.98	19
20	QPSK	1	99	18.01	17.99	17.94	
20	QPSK	50	0	17.15	17.19	17.13	
20	QPSK	50	24	17.04	17.11	17.06	18
20	QPSK	50	50	16.99	17.08	16.97	
20	QPSK	100	0	17.03	17.05	17.00	
20	16QAM	1	0	17.25	17.31	17.26	
20	16QAM	1	49	17.21	17.24	17.18	18
20	16QAM	1	99	17.14	17.22	17.15	
20	16QAM	50	0	16.11	16.20	16.16	
20	16QAM	50	24	16.04	16.14	16.08	17
20	16QAM	50	50	15.97	16.11	16.04	
20	16QAM	100	0	16.02	16.06	16.09	
20	64QAM	1	0	16.13	16.18	16.12	
20	64QAM	1	49	16.06	16.13	16.04	17
20	64QAM	1	99	16.00	16.02	15.99	
20	64QAM	50	0	15.06	15.14	15.08	
20	64QAM	50	24	14.97	14.99	15.11	16
20	64QAM	50	50	15.02	15.07	15.03	
20	64QAM	100	0	14.94	15.02	14.97	
20	256QAM	1	0	13.19	13.24	12.98	
20	256QAM	1	49	12.97	13.17	13.15	14
20	256QAM	1	99	13.15	13.02	13.00	
20	256QAM	50	0	12.01	12.14	12.03	
20	256QAM	50	24	11.97	12.12	12.17	13
20	256QAM	50	50	12.10	12.08	11.95	
20	256QAM	100	0	12.01	12.11	11.92	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.06	18.08	18.02	
15	QPSK	1	37	17.90	18.05	17.97	19
15	QPSK	1	74	18.04	18.02	17.96	
15	QPSK	36	0	17.06	17.12	17.20	
15	QPSK	36	20	17.01	17.04	16.99	18
15	QPSK	36	39	16.97	17.05	17.01	
15	QPSK	75	0	16.98	16.96	17.00	
15	16QAM	1	0	17.26	17.33	17.32	
15	16QAM	1	37	17.28	17.24	17.16	18
15	16QAM	1	74	17.10	17.09	17.13	
15	16QAM	36	0	15.99	16.25	16.22	
15	16QAM	36	20	15.92	16.09	16.17	17
15	16QAM	36	39	16.03	16.09	16.11	
15	16QAM	75	0	16.07	15.95	16.00	
15	64QAM	1	0	16.09	16.20	16.16	
15	64QAM	1	37	15.92	16.15	16.00	17
15	64QAM	1	74	16.00	15.93	15.92	
15	64QAM	36	0	14.91	15.12	15.14	
15	64QAM	36	20	14.97	15.08	15.08	16
15	64QAM	36	39	14.88	15.12	15.03	
15	64QAM	75	0	14.93	15.08	14.87	
15	256QAM	1	0	13.19	13.23	13.01	
15	256QAM	1	37	12.94	13.15	13.23	14
15	256QAM	1	74	12.97	12.98	12.86	
15	256QAM	36	0	11.88	12.21	12.08	
15	256QAM	36	20	11.94	11.99	12.16	13
15	256QAM	36	39	11.96	11.92	11.97	
15	256QAM	75	0	11.90	12.06	11.91	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.03	18.06	17.98	
10	QPSK	1	25	17.96	18.04	18.01	19
10	QPSK	1	49	17.91	17.99	17.94	
10	QPSK	25	0	17.13	17.11	17.16	
10	QPSK	25	12	16.95	17.08	17.11	18
10	QPSK	25	25	17.08	16.98	16.93	
10	QPSK	50	0	16.94	17.14	17.04	
10	16QAM	1	0	17.26	17.38	17.23	
10	16QAM	1	25	17.15	17.32	17.28	18
10	16QAM	1	49	17.00	17.23	17.23	
10	16QAM	25	0	16.04	16.14	16.12	
10	16QAM	25	12	15.99	16.16	16.15	17
10	16QAM	25	25	15.94	16.17	15.92	
10	16QAM	50	0	15.93	16.05	16.16	
10	64QAM	1	0	16.23	16.06	16.13	
10	64QAM	1	25	16.03	16.13	16.00	17
10	64QAM	1	49	15.96	16.03	16.05	
10	64QAM	25	0	14.97	15.12	14.96	
10	64QAM	25	12	14.99	15.04	15.00	16
10	64QAM	25	25	15.09	14.96	15.04	
10	64QAM	50	0	15.03	15.08	14.97	
10	256QAM	1	0	13.05	13.22	12.92	
10	256QAM	1	25	12.98	13.19	13.19	14
10	256QAM	1	49	13.08	12.93	12.95	
10	256QAM	25	0	12.04	12.11	12.07	
10	256QAM	25	12	11.87	12.12	12.15	13
10	256QAM	25	25	12.05	11.93	11.84	
10	256QAM	50	0	11.90	12.12	11.98	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.06	18.07	18.02	
5	QPSK	1	12	18.05	18.03	17.92	19
5	QPSK	1	24	17.99	18.03	17.95	
5	QPSK	12	0	17.10	17.23	17.21	
5	QPSK	12	7	17.06	17.15	17.05	18
5	QPSK	12	13	16.91	16.96	16.92	
5	QPSK	25	0	17.12	17.05	17.06	
5	16QAM	1	0	17.29	17.21	17.30	
5	16QAM	1	12	17.11	17.29	17.16	18

Band 4 (AWS Band) (dBm)_ANT 1
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	18.98	19.05	18.92	
20	QPSK	1	49	18.80	18.96	18.78	20
20	QPSK	1	99	18.99	18.90	18.87	
20	QPSK	50	0	18.08	18.10	18.06	
20	QPSK	50	24	17.85	18.02	17.91	19
20	QPSK	50	50	17.94	18.09	17.93	
20	QPSK	100	0	17.85	18.01	17.99	
20	16QAM	1	0	18.26	18.26	18.03	
20	16QAM	1	49	18.02	18.06	18.10	19
20	16QAM	1	99	18.02	18.02	17.93	
20	16QAM	50	0	17.08	17.03	17.07	
20	16QAM	50	24	16.95	17.07	16.85	18
20	16QAM	50	50	16.80	16.89	16.98	
20	16QAM	100	0	16.99	16.97	16.93	
20	64QAM	1	0	17.09	17.09	17.10	
20	64QAM	1	49	17.02	17.03	17.03	18
20	64QAM	1	99	16.77	16.95	16.85	
20	64QAM	50	0	16.00	15.96	15.97	
20	64QAM	50	24	15.74	15.87	16.05	17
20	64QAM	50	50	15.99	15.89	15.91	
20	64QAM	100	0	15.76	15.87	15.94	
20	256QAM	1	0	13.99	14.05	13.90	
20	256QAM	1	49	13.95	14.12	14.15	15
20	256QAM	1	99	13.98	13.94	13.86	
20	256QAM	50	0	12.82	13.04	13.05	
20	256QAM	50	24	12.78	13.05	12.97	14
20	256QAM	50	50	13.04	12.90	12.92	
20	256QAM	100	0	12.80	13.02	12.71	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.95	19.02	18.96	
15	QPSK	1	37	18.78	18.92	18.94	20
15	QPSK	1	74	18.96	18.87	18.82	
15	QPSK	36	0	17.93	17.98	18.08	
15	QPSK	36	20	17.98	18.13	18.03	19
15	QPSK	36	39	17.92	17.95	17.85	
15	QPSK	75	0	18.04	17.92	17.94	
15	16QAM	1	0	18.20	18.30	18.03	
15	16QAM	1	37	18.13	18.09	18.11	19
15	16QAM	1	74	17.96	18.09	17.95	
15	16QAM	36	0	16.90	17.21	16.99	
15	16QAM	36	20	17.02	16.98	17.03	18
15	16QAM	36	39	16.97	17.07	16.83	
15	16QAM	75	0	16.92	17.03	16.86	
15	64QAM	1	0	16.99	17.19	17.14	
15	64QAM	1	37	16.90	16.90	16.96	18
15	64QAM	1	74	16.97	16.94	16.82	
15	64QAM	36	0	16.05	16.15	15.93	
15	64QAM	36	20	15.90	15.98	15.96	17
15	64QAM	36	39	15.91	15.98	15.93	
15	64QAM	75	0	15.82	15.92	15.78	
15	256QAM	1	0	14.04	14.06	13.83	
15	256QAM	1	37	13.85	14.01	13.99	15
15	256QAM	1	74	13.91	13.95	13.77	
15	256QAM	36	0	12.87	13.05	12.88	
15	256QAM	36	20	12.92	13.08	12.85	14
15	256QAM	36	39	12.89	12.96	12.76	
15	256QAM	75	0	12.88	13.07	12.82	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	18.95	19.00	18.97	
10	QPSK	1	25	18.78	18.92	18.87	20
10	QPSK	1	49	18.92	18.83	18.72	
10	QPSK	25	0	17.93	18.13	17.97	
10	QPSK	25	12	17.85	18.05	17.92	19
10	QPSK	25	25	17.93	18.09	17.97	
10	QPSK	50	0	17.82	18.07	17.93	
10	16QAM	1	0	18.03	18.14	18.16	
10	16QAM	1	25	18.18	18.03	17.96	19
10	16QAM	1	49	18.11	18.02	18.08	
10	16QAM	25	0	16.89	17.12	16.96	
10	16QAM	25	12	16.98	16.97	16.98	18
10	16QAM	25	25	16.98	17.07	17.06	
10	16QAM	50	0	16.84	17.03	17.11	
10	64QAM	1	0	16.94	17.16	17.03	
10	64QAM	1	25	16.83	17.09	16.91	18
10	64QAM	1	49	16.93	16.94	16.96	
10	64QAM	25	0	16.00	16.03	16.05	
10	64QAM	25	12	15.78	15.93	16.10	17
10	64QAM	25	25	15.85	15.99	15.82	
10	64QAM	50	0	15.81	15.94	15.88	
10	256QAM	1	0	14.05	14.15	13.95	
10	256QAM	1	25	13.89	14.01	14.00	15
10	256QAM	1	49	13.99	13.89	13.97	
10	256QAM	25	0	12.89	13.08	12.96	
10	256QAM	25	12	12.91	12.93	13.04	14
10	256QAM	25	25	12.93	12.81	12.83	
10	256QAM	50	0	12.95	12.97	12.81	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.92	19.01	18.98	
5	QPSK	1	12	18.92	18.88	18.87	20
5	QPSK	1	24	18.84	18.88	18.92	
5	QPSK	12	0	17.95	18.12	17.95	
5	QPSK	12	7	17.97	18.11	17.91	19
5	QPSK	12	13	18.01	17.85	17.82	
5	QPSK	25	0	18.02	17.87	17.93	
5	16QAM	1	0	18.04	18.28	18.04	
5	16QAM	1	12	18.20	18.20	18.00	19

5	16QAM	1	24	17.08	17.22	17.10	
5	16QAM	12	0	15.99	16.22	16.26	17
5	16QAM	12	7	16.11	16.03	16.17	
5	16QAM	12	13	15.97	16.01	15.95	
5	16QAM	25	0	15.90	16.12	16.02	
5	64QAM	1	0	16.07	16.18	15.99	17
5	64QAM	1	12	16.09	16.08	16.14	
5	64QAM	1	24	15.98	16.11	15.85	
5	64QAM	12	0	14.92	15.07	15.04	16
5	64QAM	12	7	15.04	14.95	15.03	
5	64QAM	12	13	15.10	15.02	14.91	
5	64QAM	25	0	14.89	14.90	14.88	
5	256QAM	1	0	13.10	13.27	13.01	14
5	256QAM	1	12	13.00	13.15	13.14	
5	256QAM	1	24	13.00	12.95	12.91	
5	256QAM	12	0	11.99	12.14	12.10	13
5	256QAM	12	7	12.04	12.18	12.10	
5	256QAM	12	13	12.09	11.97	11.87	
5	256QAM	25	0	12.00	12.15	11.88	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	18.00	18.03	17.99	19
3	QPSK	1	8	17.87	17.91	17.96	
3	QPSK	1	14	17.94	17.99	17.95	
3	QPSK	8	0	17.13	17.04	16.99	18
3	QPSK	8	4	17.01	17.05	16.97	
3	QPSK	8	7	16.99	17.14	16.90	
3	QPSK	15	0	17.06	16.92	16.90	
3	16QAM	1	0	17.10	17.29	17.23	18
3	16QAM	1	8	17.09	17.26	17.21	
3	16QAM	1	14	17.22	17.08	17.03	
3	16QAM	8	0	16.02	16.14	16.09	17
3	16QAM	8	4	16.11	16.23	16.06	
3	16QAM	8	7	15.99	16.20	15.92	
3	16QAM	15	0	15.88	15.94	16.02	
3	64QAM	1	0	16.04	16.13	16.11	17
3	64QAM	1	8	15.97	16.22	16.12	
3	64QAM	1	14	16.05	16.09	15.89	
3	64QAM	8	0	15.15	15.21	15.14	16
3	64QAM	8	4	15.01	15.03	15.03	
3	64QAM	8	7	14.90	15.06	15.04	
3	64QAM	15	0	15.04	15.10	14.98	
3	256QAM	1	0	13.23	13.22	12.92	14
3	256QAM	1	8	13.03	13.04	13.25	
3	256QAM	1	14	13.05	12.96	13.06	
3	256QAM	8	0	12.09	12.25	11.98	13
3	256QAM	8	4	11.98	12.09	12.06	
3	256QAM	8	7	12.12	11.91	11.90	
3	256QAM	15	0	12.01	12.10	11.90	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.00	18.07	17.99	19
1.4	QPSK	1	3	17.86	17.93	17.98	
1.4	QPSK	1	5	18.04	17.98	17.98	
1.4	QPSK	3	0	17.19	17.23	16.98	
1.4	QPSK	3	1	17.13	17.18	16.98	
1.4	QPSK	3	3	17.02	17.10	16.98	
1.4	QPSK	6	0	16.98	16.93	16.88	18
1.4	16QAM	1	0	17.33	17.16	17.30	18
1.4	16QAM	1	3	17.12	17.19	17.03	
1.4	16QAM	1	5	17.18	17.09	17.07	
1.4	16QAM	3	0	16.02	16.22	16.11	
1.4	16QAM	3	1	16.08	16.01	16.08	
1.4	16QAM	3	3	16.02	15.97	15.95	
1.4	16QAM	6	0	16.03	16.02	15.94	17
1.4	64QAM	1	0	15.99	16.22	16.07	17
1.4	64QAM	1	3	16.14	16.07	15.92	
1.4	64QAM	1	5	16.01	16.09	15.89	
1.4	64QAM	3	0	15.03	15.02	15.02	
1.4	64QAM	3	1	15.00	15.09	15.18	
1.4	64QAM	3	3	14.99	15.08	15.11	
1.4	64QAM	6	0	15.03	15.00	14.99	16
1.4	256QAM	1	0	13.08	13.19	12.93	14
1.4	256QAM	1	3	12.96	13.09	13.18	
1.4	256QAM	1	5	13.01	12.93	12.88	
1.4	256QAM	3	0	12.04	12.14	11.99	
1.4	256QAM	3	1	12.04	12.14	12.25	
1.4	256QAM	3	3	12.00	12.01	11.87	
1.4	256QAM	6	0	12.02	12.05	11.91	13

5	16QAM	1	24	17.92	18.15	18.15	
5	16QAM	12	0	16.92	17.20	17.04	18
5	16QAM	12	7	17.06	17.16	17.04	
5	16QAM	12	13	16.99	16.97	16.85	
5	16QAM	25	0	16.79	16.90	17.09	
5	64QAM	1	0	17.07	17.00	17.02	18
5	64QAM	1	12	17.02	16.95	16.92	
5	64QAM	1	24	16.99	16.98	16.91	
5	64QAM	12	0	15.89	16.03	15.98	17
5	64QAM	12	7	15.82	15.91	15.99	
5	64QAM	12	13	15.95	15.97	15.84	
5	64QAM	25	0	15.95	15.89	15.76	
5	256QAM	1	0	14.02	14.23	13.86	15
5	256QAM	1	12	13.92	13.94	13.96	
5	256QAM	1	24	13.96	13.89	14.00	
5	256QAM	12	0	12.82	13.09	13.00	14
5	256QAM	12	7	12.87	12.97	13.07	
5	256QAM	12	13	13.01	12.83	12.82	
5	256QAM	25	0	12.90	13.10	12.97	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	18.96	18.97	18.90	20
3	QPSK	1	8	18.95	18.93	18.92	
3	QPSK	1	14	18.88	18.79	18.73	
3	QPSK	8	0	18.12	18.05	18.04	19
3	QPSK	8	4	17.82	17.90	18.03	
3	QPSK	8	7	17.95	17.86	17.76	
3	QPSK	15	0	18.00	18.03	17.87	
3	16QAM	1	0	18.12	18.24	18.25	19
3	16QAM	1	8	18.17	18.07	18.20	
3	16QAM	1	14	18.14	18.10	18.17	
3	16QAM	8	0	17.09	17.11	17.08	18
3	16QAM	8	4	16.92	16.98	17.10	
3	16QAM	8	7	16.95	16.99	16.83	
3	16QAM	15	0	16.99	16.87	16.97	
3	64QAM	1	0	16.96	17.09	16.93	18
3	64QAM	1	8	16.93	17.13	17.03	
3	64QAM	1	14	16.91	16.88	16.77	
3	64QAM	8	0	15.91	16.01	16.05	17
3	64QAM	8	4	15.84	15.96	16.03	
3	64QAM	8	7	15.94	15.89	15.88	
3	64QAM	15	0	15.73	15.98	15.83	
3	256QAM	1	0	14.03	14.11	13.85	15
3	256QAM	1	8	13.97	13.98	14.12	
3	256QAM	1	14	13.99	13.81	13.77	
3	256QAM	8	0	12.88	13.03	13.04	14
3	256QAM	8	4	12.94	12.94	13.02	
3	256QAM	8	7	12.87	12.84	12.81	
3	256QAM	15	0	12.88	13.09	12.85	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.95	18.98	18.93	20
1.4	QPSK	1	3	18.94	18.91	18.84	
1.4	QPSK	1	5	18.85	18.95	18.87	
1.4	QPSK	3	0	18.17	18.10	18.08	
1.4	QPSK	3	1	17.87	18.03	18.02	
1.4	QPSK	3	3	17.92	17.92	17.96	
1.4	QPSK	6	0	18.02	18.02	17.83	19
1.4	16QAM	1	0	18.15	18.10	18.03	19
1.4	16QAM	1	3	18.07	18.12	18.06	
1.4	16QAM	1	5	18.16	18.16	18.01	
1.4	16QAM	3	0	17.01	17.15	17.00	
1.4	16QAM	3	1	16.94	16.91	17.07	
1.4	16QAM	3	3	16.97	17.00	17.02	
1.4	16QAM	6	0	16.91	17.00	17.11	18
1.4	64QAM	1	0	17.03	17.06	17.05	18
1.4	64QAM	1	3	17.04	17.13	16.98	
1.4	64QAM	1	5	16.92	16.97	16.92	
1.4	64QAM	3	0	16.05	15.95	15.88	
1.4	64QAM	3	1	15.90	15.92	15.91	
1.4	64QAM	3	3	15.92	15.94	15.90	
1.4	64QAM	6	0	15.92	15.94	15.75	17
1.4	256QAM	1	0	14.13	14.09	13.87	15
1.4	256QAM	1	3	13.81	13.98	14.07	
1.4	256QAM	1	5	13.94	13.89	13.85	
1.4	256QAM	3	0	12.93	13.04	12.93	
1.4	256QAM	3	1	12.81	12.90	13.10	
1.4	256QAM	3	3	13.02	12.84	12.86	
1.4	256QAM	6	0	12.93	13.02	12.83	14

Band 5 (Celluar Band) (dBm)_ANT 4
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	17.04	17.09	17.03	18
10	QPSK	1	25	17.05	17.02	16.95	
10	QPSK	1	49	17.01	17.06	16.93	
10	QPSK	25	0	16.04	16.10	16.00	17
10	QPSK	25	12	15.92	16.09	15.95	
10	QPSK	25	25	16.09	16.09	16.05	
10	QPSK	50	0	16.03	16.02	16.07	
10	16QAM	1	0	16.22	16.25	16.13	17
10	16QAM	1	25	16.11	16.21	16.28	
10	16QAM	1	49	16.05	16.07	16.24	
10	16QAM	25	0	15.06	15.08	15.10	16
10	16QAM	25	12	15.10	15.20	15.04	
10	16QAM	25	25	14.92	15.01	15.02	
10	16QAM	50	0	15.09	15.03	14.97	
10	64QAM	1	0	15.19	15.15	15.10	16
10	64QAM	1	25	15.10	14.98	14.93	
10	64QAM	1	49	15.08	15.03	14.97	
10	64QAM	25	0	13.98	14.03	14.10	15
10	64QAM	25	12	13.95	14.06	14.14	
10	64QAM	25	25	14.03	14.09	13.93	
10	64QAM	50	0	13.88	14.09	14.07	
10	256QAM	1	0	11.93	11.84	11.72	13
10	256QAM	1	25	11.68	11.82	11.94	
10	256QAM	1	49	11.83	11.66	11.69	
10	256QAM	25	0	10.70	10.93	10.78	12
10	256QAM	25	12	10.62	10.71	10.86	
10	256QAM	25	25	10.81	10.69	10.62	
10	256QAM	50	0	10.72	10.81	10.57	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	17.00	17.04	16.98	18
5	QPSK	1	12	16.84	17.05	17.04	
5	QPSK	1	24	16.94	17.05	16.78	
5	QPSK	12	0	16.08	16.20	16.00	17
5	QPSK	12	7	15.94	16.16	16.12	
5	QPSK	12	13	15.92	15.91	16.01	
5	QPSK	25	0	15.86	16.09	15.92	
5	16QAM	1	0	16.09	16.31	16.11	17
5	16QAM	1	12	16.06	16.19	16.17	
5	16QAM	1	24	16.10	16.09	16.08	
5	16QAM	12	0	15.04	15.03	15.00	16
5	16QAM	12	7	14.95	15.20	15.09	
5	16QAM	12	13	14.92	15.13	15.01	
5	16QAM	25	0	14.86	15.05	14.99	
5	64QAM	1	0	15.09	15.17	14.94	16
5	64QAM	1	12	15.08	15.11	15.08	
5	64QAM	1	24	14.95	14.84	15.04	
5	64QAM	12	0	13.99	14.13	14.03	15
5	64QAM	12	7	14.03	13.91	13.96	
5	64QAM	12	13	14.05	14.06	13.99	
5	64QAM	25	0	13.96	13.86	13.81	
5	256QAM	1	0	11.89	11.89	11.74	13
5	256QAM	1	12	11.74	11.82	11.79	
5	256QAM	1	24	11.67	11.70	11.62	
5	256QAM	12	0	10.66	10.83	10.77	12
5	256QAM	12	7	10.70	10.85	10.80	
5	256QAM	12	13	10.77	10.69	10.58	
5	256QAM	25	0	10.62	10.85	10.64	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	16.93	17.01	16.88	18
3	QPSK	1	8	16.91	16.93	16.86	
3	QPSK	1	14	16.89	16.97	17.00	
3	QPSK	8	0	16.13	16.09	16.14	17
3	QPSK	8	4	15.95	16.15	15.92	
3	QPSK	8	7	16.03	16.14	15.88	
3	QPSK	15	0	16.02	15.88	15.90	
3	16QAM	1	0	16.10	16.22	16.15	17
3	16QAM	1	8	16.06	16.31	16.00	
3	16QAM	1	14	16.20	16.26	16.19	
3	16QAM	8	0	15.05	15.08	14.99	16
3	16QAM	8	4	15.02	15.18	15.14	
3	16QAM	8	7	14.83	15.05	15.04	
3	16QAM	15	0	14.87	15.00	15.08	
3	64QAM	1	0	15.17	15.16	14.95	16
3	64QAM	1	8	15.05	15.18	14.97	
3	64QAM	1	14	14.96	15.03	14.88	
3	64QAM	8	0	14.04	14.11	13.91	15
3	64QAM	8	4	13.90	13.98	14.05	
3	64QAM	8	7	13.87	13.99	14.00	
3	64QAM	15	0	13.81	14.00	14.00	
3	256QAM	1	0	11.86	11.89	11.62	13
3	256QAM	1	8	11.61	11.84	11.93	
3	256QAM	1	14	11.69	11.61	11.57	
3	256QAM	8	0	10.56	10.79	10.76	12
3	256QAM	8	4	10.59	10.67	10.78	
3	256QAM	8	7	10.80	10.67	10.61	
3	256QAM	15	0	10.67	10.81	10.55	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	16.90	16.98	16.95	18
1.4	QPSK	1	3	16.92	17.00	16.98	
1.4	QPSK	1	5	16.96	16.93	16.86	
1.4	QPSK	3	0	15.97	16.10	15.99	
1.4	QPSK	3	1	16.02	16.18	15.93	
1.4	QPSK	3	3	15.96	16.08	15.97	
1.4	QPSK	6	0	15.97	16.11	15.97	17
1.4	16QAM	1	0	16.22	16.20	16.08	
1.4	16QAM	1	3	16.21	16.24	16.15	

Band 7 (2600MHz Band) (dBm)_ANT 0
Part 27

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	18.00	18.09	18.03	19
20	QPSK	1	49	17.89	18.01	17.86	
20	QPSK	1	99	17.95	17.89	17.83	
20	QPSK	50	0	17.08	17.23	17.14	18
20	QPSK	50	24	16.86	17.13	17.03	
20	QPSK	50	50	16.85	16.90	16.91	
20	QPSK	100	0	17.06	16.91	16.88	
20	16QAM	1	0	17.07	17.16	17.29	18
20	16QAM	1	49	17.04	17.18	17.16	
20	16QAM	1	99	16.98	17.09	17.11	
20	16QAM	50	0	15.95	16.17	16.09	17
20	16QAM	50	24	16.07	15.95	15.99	
20	16QAM	50	50	15.90	16.05	15.88	
20	16QAM	100	0	15.84	16.07	16.03	
20	64QAM	1	0	16.12	16.08	16.09	17
20	64QAM	1	49	16.04	15.93	16.05	
20	64QAM	1	99	15.96	16.04	16.04	
20	64QAM	50	0	14.88	15.15	15.02	16
20	64QAM	50	24	14.94	14.95	15.04	
20	64QAM	50	50	15.07	15.10	14.87	
20	64QAM	100	0	14.80	14.97	14.97	
20	256QAM	1	0	12.82	13.01	12.62	14
20	256QAM	1	49	12.78	12.76	12.86	
20	256QAM	1	99	12.79	12.69	12.66	
20	256QAM	50	0	11.68	11.88	11.79	13
20	256QAM	50	24	11.58	11.75	11.82	
20	256QAM	50	50	11.73	11.70	11.71	
20	256QAM	100	0	11.62	11.76	11.66	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	18.02	18.06	17.96	19
15	QPSK	1	37	17.98	17.90	18.02	
15	QPSK	1	74	17.85	17.97	17.92	
15	QPSK	36	0	17.12	17.02	17.01	18
15	QPSK	36	20	16.86	16.98	16.91	
15	QPSK	36	39	17.04	17.09	16.77	
15	QPSK	75	0	16.90	17.04	16.85	
15	16QAM	1	0	17.30	17.22	17.13	18
15	16QAM	1	37	17.08	17.25	17.10	
15	16QAM	1	74	17.16	17.07	16.95	
15	16QAM	36	0	16.08	16.07	16.19	17
15	16QAM	36	20	15.85	16.12	15.94	
15	16QAM	36	39	15.99	16.12	16.04	
15	16QAM	75	0	15.93	15.89	16.06	
15	64QAM	1	0	16.04	16.01	16.01	17
15	64QAM	1	37	16.08	15.99	16.01	
15	64QAM	1	74	15.83	15.87	15.83	
15	64QAM	36	0	14.88	15.09	15.11	16
15	64QAM	36	20	14.80	14.99	14.97	
15	64QAM	36	39	15.07	15.00	14.84	
15	64QAM	75	0	14.87	15.07	14.95	
15	256QAM	1	0	12.85	13.00	12.62	14
15	256QAM	1	37	12.61	12.77	12.69	
15	256QAM	1	74	12.73	12.67	12.63	
15	256QAM	36	0	11.66	11.81	11.76	13
15	256QAM	36	20	11.61	11.89	11.81	
15	256QAM	36	39	11.81	11.71	11.57	
15	256QAM	75	0	11.66	11.75	11.54	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	18.00	18.04	17.97	19
10	QPSK	1	25	18.00	17.91	17.99	
10	QPSK	1	49	17.87	18.00	17.89	
10	QPSK	25	0	17.02	17.02	17.13	18
10	QPSK	25	12	16.97	16.91	17.04	
10	QPSK	25	25	16.85	17.00	16.90	
10	QPSK	50	0	17.08	16.85	16.91	
10	16QAM	1	0	17.16	17.26	17.11	18
10	16QAM	1	25	17.04	17.23	17.09	
10	16QAM	1	49	17.14	17.16	16.97	
10	16QAM	25	0	16.16	16.17	16.03	17
10	16QAM	25	12	15.86	16.01	16.01	
10	16QAM	25	25	15.83	15.91	15.92	
10	16QAM	50	0	15.98	15.86	16.05	
10	64QAM	1	0	16.11	16.08	16.04	17
10	64QAM	1	25	16.07	16.01	15.89	
10	64QAM	1	49	16.01	16.04	15.97	
10	64QAM	25	0	14.96	15.19	15.10	16
10	64QAM	25	12	14.90	15.03	15.09	
10	64QAM	25	25	15.06	15.04	14.93	
10	64QAM	50	0	14.79	14.87	14.86	
10	256QAM	1	0	12.81	13.02	12.69	14
10	256QAM	1	25	12.69	12.74	12.78	
10	256QAM	1	49	12.84	12.65	12.66	
10	256QAM	25	0	11.59	11.88	11.82	13
10	256QAM	25	12	11.69	11.86	11.81	
10	256QAM	25	25	11.67	11.76	11.65	
10	256QAM	50	0	11.64	11.78	11.50	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	17.99	18.01	17.89	19
5	QPSK	1	12	17.98	17.99	17.88	
5	QPSK	1	24	17.95	17.94	17.85	
5	QPSK	12	0	17.15	17.16	17.09	18
5	QPSK	12	7	17.00	16.99	17.04	
5	QPSK	12	13	16.91	17.10	16.82	
5	QPSK	25	0	16.90	17.02	16.87	
5	16QAM	1	0	17.23	17.16	17.22	18
5	16QAM	1	12	17.14	17.10	17.16	

1.4	16QAM	1	5	16.20	16.12	15.98	17
1.4	16QAM	3	0	15.01	15.10	15.06	
1.4	16QAM	3	1	14.94	15.12	14.90	
1.4	16QAM	3	3	14.95	15.08	14.98	
1.4	16QAM	6	0	14.86	15.07	15.03	16
1.4	64QAM	1	0	15.18	15.17	15.06	16
1.4	64QAM	1	3	14.97	14.99	15.10	
1.4	64QAM	1	5	14.84	14.85	14.91	
1.4	64QAM	3	0	14.00	14.12	14.03	
1.4	64QAM	3	1	13.99	13.93	14.16	
1.4	64QAM	3	3	13.92	13.94	14.01	
1.4	64QAM	6	0	13.82	14.08	14.01	15
1.4	256QAM	1	0	11.81	12.00	11.68	13
1.4	256QAM	1	3	11.73	11.88	11.89	
1.4	256QAM	1	5	11.77	11.65	11.79	
1.4	256QAM	3	0	10.63	10.93	10.81	
1.4	256QAM	3	1	10.72	10.74	10.88	
1.4	256QAM	3	3	10.71	10.72	10.79	
1.4	256QAM	6	0	10.60	10.72	10.51	12

5	16QAM	1	24	17.11	17.15	17.08	
5	16QAM	12	0	16.09	16.24	16.02	17
5	16QAM	12	7	15.97	16.10	16.09	
5	16QAM	12	13	15.88	15.95	16.01	
5	16QAM	25	0	15.94	16.11	16.04	
5	64QAM	1	0	16.16	16.16	16.07	17
5	64QAM	1	12	16.04	16.01	15.90	
5	64QAM	1	24	15.88	16.02	15.80	
5	64QAM	12	0	14.93	15.09	14.93	16
5	64QAM	12	7	14.89	14.99	15.13	
5	64QAM	12	13	14.95	14.93	14.90	
5	64QAM	25	0	14.82	14.94	15.01	
5	256QAM	1	0	12.84	12.91	12.77	14
5	256QAM	1	12	12.77	12.83	12.87	
5	256QAM	1	24	12.80	12.71	12.69	
5	256QAM	12	0	11.73	11.89	11.82	13
5	256QAM	12	7	11.67	11.79	11.78	
5	256QAM	12	13	11.75	11.78	11.59	
5	256QAM	25	0	11.65	11.75	11.59	

Band 12 (700MHz Low Band) (dBm)_ANT 4
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	17.87	17.96	17.90	
10	QPSK	1	25	17.75	17.89	17.71	19
10	QPSK	1	49	17.84	17.75	17.72	
10	QPSK	25	0	16.90	16.97	16.88	
10	QPSK	25	12	16.74	16.82	16.75	18
10	QPSK	25	25	16.61	16.78	16.80	
10	QPSK	50	0	16.68	16.79	16.65	
10	16QAM	1	0	17.03	16.96	16.96	
10	16QAM	1	25	17.02	17.03	17.01	18
10	16QAM	1	49	16.89	16.84	16.86	
10	16QAM	25	0	15.75	15.85	15.83	
10	16QAM	25	12	15.64	15.89	15.84	17
10	16QAM	25	25	15.76	15.71	15.89	
10	16QAM	50	0	15.67	15.83	15.73	
10	64QAM	1	0	15.84	15.81	15.95	
10	64QAM	1	25	15.74	15.90	15.68	17
10	64QAM	1	49	15.80	15.71	15.69	
10	64QAM	25	0	14.81	14.83	14.89	
10	64QAM	25	12	14.64	14.78	14.87	16
10	64QAM	25	25	14.63	14.70	14.64	
10	64QAM	50	0	14.58	14.71	14.63	
10	256QAM	1	0	12.79	12.93	12.74	
10	256QAM	1	25	12.65	12.89	12.81	14
10	256QAM	1	49	12.76	12.69	12.68	
10	256QAM	25	0	11.72	11.91	11.80	
10	256QAM	25	12	11.72	11.86	11.91	13
10	256QAM	25	25	11.68	11.80	11.63	
10	256QAM	50	0	11.55	11.86	11.53	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	17.83	17.93	17.83	
5	QPSK	1	12	17.62	17.76	17.71	19
5	QPSK	1	24	17.71	17.71	17.60	
5	QPSK	12	0	16.83	16.95	16.73	
5	QPSK	12	7	16.71	16.81	16.86	18
5	QPSK	12	13	16.84	16.77	16.75	
5	QPSK	25	0	16.67	16.78	16.73	
5	16QAM	1	0	16.94	17.02	16.99	
5	16QAM	1	12	17.02	17.07	16.88	18
5	16QAM	1	24	16.97	16.89	16.77	
5	16QAM	12	0	15.92	15.87	15.92	
5	16QAM	12	7	15.67	15.94	15.69	17
5	16QAM	12	13	15.62	15.72	15.73	
5	16QAM	25	0	15.78	15.85	15.93	
5	64QAM	1	0	15.96	15.96	15.90	
5	64QAM	1	12	15.80	15.82	15.86	17
5	64QAM	1	24	15.62	15.80	15.60	
5	64QAM	12	0	14.90	14.78	14.90	
5	64QAM	12	7	14.70	14.83	14.76	16
5	64QAM	12	13	14.63	14.71	14.81	
5	64QAM	25	0	14.75	14.64	14.72	
5	256QAM	1	0	12.78	12.87	12.58	
5	256QAM	1	12	12.59	12.84	12.83	14
5	256QAM	1	24	12.76	12.61	12.62	
5	256QAM	12	0	11.70	11.91	11.73	
5	256QAM	12	7	11.60	11.79	11.97	13
5	256QAM	12	13	11.83	11.63	11.68	
5	256QAM	25	0	11.72	11.82	11.64	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	17.86	17.92	17.83	
3	QPSK	1	8	17.75	17.66	17.80	19
3	QPSK	1	14	17.64	17.76	17.64	
3	QPSK	8	0	16.78	16.80	16.73	
3	QPSK	8	4	16.84	16.90	16.67	18
3	QPSK	8	7	16.75	16.71	16.75	
3	QPSK	15	0	16.86	16.70	16.81	
3	16QAM	1	0	17.07	17.08	17.07	
3	16QAM	1	8	16.87	17.06	16.84	18
3	16QAM	1	14	16.83	16.96	16.97	
3	16QAM	8	0	15.90	16.03	16.01	
3	16QAM	8	4	15.75	15.93	15.80	17
3	16QAM	8	7	15.76	15.85	15.85	
3	16QAM	15	0	15.75	15.67	15.88	
3	64QAM	1	0	15.76	15.94	15.94	
3	64QAM	1	8	15.78	15.98	15.78	17
3	64QAM	1	14	15.82	15.74	15.72	
3	64QAM	8	0	14.78	14.95	14.86	
3	64QAM	8	4	14.76	14.68	14.88	16
3	64QAM	8	7	14.80	14.75	14.77	
3	64QAM	15	0	14.59	14.80	14.63	
3	256QAM	1	0	12.83	12.99	12.74	
3	256QAM	1	8	12.65	12.87	12.96	14
3	256QAM	1	14	12.82	12.58	12.69	
3	256QAM	8	0	11.61	11.82	11.69	
3	256QAM	8	4	11.65	11.81	11.94	13
3	256QAM	8	7	11.76	11.77	11.61	
3	256QAM	15	0	11.60	11.81	11.57	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	17.82	17.90	17.78	
1.4	QPSK	1	3	17.80	17.72	17.82	
1.4	QPSK	1	5	17.67	17.78	17.76	19
1.4	QPSK	3	0	16.75	16.92	16.83	
1.4	QPSK	3	1	16.64	16.76	16.76	
1.4	QPSK	3	3	16.83	16.78	16.79	
1.4	QPSK	6	0	16.67	16.87	16.77	18
1.4	16QAM	1	0	16.85	16.98	17.09	
1.4	16QAM	1	3	16.96	17.04	17.00	

Band 13(700MHz Band) (dBm)_ANT 4
Part 27F

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					782		
10	QPSK	1	0		18.11		
10	QPSK	1	25		18.02		19
10	QPSK	1	49		17.96		
10	QPSK	25	0		17.26		
10	QPSK	25	12		17.02		18
10	QPSK	25	25		17.13		
10	QPSK	50	0		16.97		
10	16QAM	1	0		17.17		
10	16QAM	1	25		17.09		18
10	16QAM	1	49		17.10		
10	16QAM	25	0		16.17		
10	16QAM	25	12		16.10		17
10	16QAM	25	25		16.15		
10	16QAM	50	0		16.07		
10	64QAM	1	0		16.22		
10	64QAM	1	25		15.99		17
10	64QAM	1	49		15.95		
10	64QAM	25	0		15.15		
10	64QAM	25	12		14.91		16
10	64QAM	25	25		15.08		
10	64QAM	50	0		15.08		
10	256QAM	1	0		12.96		
10	256QAM	1	25		12.90		14
10	256QAM	1	49		12.74		
10	256QAM	25	0		11.84		
10	256QAM	25	12		11.76		13
10	256QAM	25	25		11.63		
10	256QAM	50	0		11.91		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	18.01	18.05	17.98	
5	QPSK	1	12	17.83	17.89	17.97	19
5	QPSK	1	24	17.99	17.97	18.01	
5	QPSK	12	0	17.12	17.16	17.07	
5	QPSK	12	7	16.88	17.11	17.06	18
5	QPSK	12	13	16.83	16.91	16.91	
5	QPSK	25	0	16.96	16.94	17.02	
5	16QAM	1	0	17.21	17.37	17.22	
5	16QAM	1	12	17.20	17.07	17.03	18
5	16QAM	1	24	17.20	17.07	17.22	
5	16QAM	12	0	16.13	16.03	16.01	
5	16QAM	12	7	15.96	16.08	15.97	17
5	16QAM	12	13	15.97	16.18	16.04	
5	16QAM	25	0	16.04	16.06	15.97	
5	64QAM	1	0	16.00	16.20	16.08	
5	64QAM	1	12	15.91	16.17	15.97	17
5	64QAM	1	24	15.99	16.02	15.98	
5	64QAM	12	0	15.00	15.18	15.04	
5	64QAM	12	7	15.02	15.07	15.03	16
5	64QAM	12	13	15.01	15.08	15.02	
5	64QAM	25	0	15.03	15.04	15.06	
5	256QAM	1	0	12.84	12.85	12.58	
5	256QAM	1	12	12.69	12.71	12.77	14
5	256QAM	1	24	12.64	12.53	12.49	
5	256QAM	12	0	11.59	11.82	11.83	
5	256QAM	12	7	11.55	11.66	11.85	13
5	256QAM	12	13	11.80	11.78	11.49	
5	256QAM	25	0	11.60	11.84	11.56	

1.4	16QAM	1	5	16.92	16.88	16.95	18
1.4	16QAM	3	0	15.77	15.80	16.01	
1.4	16QAM	3	1	15.82	15.90	15.81	
1.4	16QAM	3	3	15.64	15.93	15.79	
1.4	16QAM	6	0	15.69	15.74	15.90	17
1.4	64QAM	1	0	15.73	15.92	15.92	17
1.4	64QAM	1	3	15.86	15.74	15.74	
1.4	64QAM	1	5	15.73	15.63	15.62	
1.4	64QAM	3	0	14.68	14.76	14.74	
1.4	64QAM	3	1	14.60	14.81	14.74	
1.4	64QAM	3	3	14.78	14.69	14.68	
1.4	64QAM	6	0	14.59	14.78	14.72	16
1.4	256QAM	1	0	12.93	12.99	12.66	14
1.4	256QAM	1	3	12.63	12.80	12.82	
1.4	256QAM	1	5	12.76	12.72	12.69	
1.4	256QAM	3	0	11.59	11.92	11.85	
1.4	256QAM	3	1	11.73	11.71	11.79	
1.4	256QAM	3	3	11.70	11.63	11.63	
1.4	256QAM	6	0	11.62	11.94	11.62	13

Band 14 (700MHz Band) (dBm)_ANT 4

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23330		
Frequency (MHz)					793		
10	QPSK	1	0		20.18		21
10	QPSK	1	25		20.10		
10	QPSK	1	49		19.98		
10	QPSK	25	0		19.12		20
10	QPSK	25	12		19.12		
10	QPSK	25	25		19.04		
10	QPSK	50	0		18.98		
10	16QAM	1	0		19.30		20
10	16QAM	1	25		19.20		
10	16QAM	1	49		19.11		
10	16QAM	25	0		18.15		19
10	16QAM	25	12		18.13		
10	16QAM	25	25		18.00		
10	16QAM	50	0		18.03		
10	64QAM	1	0		18.26		19
10	64QAM	1	25		18.21		
10	64QAM	1	49		18.06		
10	64QAM	25	0		17.24		18
10	64QAM	25	12		17.06		
10	64QAM	25	25		17.08		
10	64QAM	50	0		16.89		
10	256QAM	1	0		15.01		16
10	256QAM	1	25		14.84		
10	256QAM	1	49		14.69		
10	256QAM	25	0		13.93		15
10	256QAM	25	12		13.82		
10	256QAM	25	25		13.78		
10	256QAM	50	0		13.89		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	20.05	20.12	20.10	21
5	QPSK	1	12	19.99	20.10	20.05	
5	QPSK	1	24	19.89	19.91	19.86	
5	QPSK	12	0	19.00	19.22	19.11	20
5	QPSK	12	7	18.90	18.99	19.00	
5	QPSK	12	13	18.94	19.14	18.98	
5	QPSK	25	0	18.95	19.04	19.04	
5	16QAM	1	0	19.13	19.26	19.36	20
5	16QAM	1	12	19.18	19.15	19.08	
5	16QAM	1	24	19.13	19.27	19.07	
5	16QAM	12	0	18.06	18.06	18.18	19
5	16QAM	12	7	17.90	18.15	17.96	
5	16QAM	12	13	18.03	18.00	17.91	
5	16QAM	25	0	17.93	18.06	18.02	
5	64QAM	1	0	18.06	18.07	18.17	19
5	64QAM	1	12	18.07	18.20	17.92	
5	64QAM	1	24	18.01	17.97	17.84	
5	64QAM	12	0	17.13	17.14	17.01	18
5	64QAM	12	7	16.87	17.08	17.11	
5	64QAM	12	13	16.92	16.92	17.04	
5	64QAM	25	0	16.96	16.88	16.84	
5	256QAM	1	0	14.87	14.98	14.60	16
5	256QAM	1	12	14.72	14.77	14.82	
5	256QAM	1	24	14.85	14.74	14.68	
5	256QAM	12	0	13.56	13.91	13.68	15
5	256QAM	12	7	13.59	13.73	13.82	
5	256QAM	12	13	13.73	13.80	13.61	
5	256QAM	25	0	13.55	13.85	13.64	

Band 17 (700MHz Band) (dBm)_ANT 4
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	17.80	17.87	17.78	19
10	QPSK	1	25	17.66	17.56	17.54	
10	QPSK	1	49	17.60	17.64	17.63	
10	QPSK	25	0	16.81	16.86	16.82	18
10	QPSK	25	12	16.70	16.58	16.72	
10	QPSK	25	25	16.60	16.68	16.60	
10	QPSK	50	0	16.62	16.53	16.61	
10	16QAM	1	0	16.96	17.01	16.88	18
10	16QAM	1	25	16.83	16.73	16.88	
10	16QAM	1	49	16.77	16.90	16.69	
10	16QAM	25	0	15.67	15.87	15.86	17
10	16QAM	25	12	15.63	15.70	15.57	
10	16QAM	25	25	15.60	15.79	15.58	
10	16QAM	50	0	15.58	15.71	15.58	
10	64QAM	1	0	15.74	15.81	15.73	17
10	64QAM	1	25	15.63	15.79	15.64	
10	64QAM	1	49	15.57	15.65	15.55	
10	64QAM	25	0	14.67	14.82	14.63	16
10	64QAM	25	12	14.51	14.54	14.63	
10	64QAM	25	25	14.70	14.54	14.50	
10	64QAM	50	0	14.57	14.51	14.44	
10	256QAM	1	0	12.85	12.84	12.62	14
10	256QAM	1	25	12.76	12.86	12.76	
10	256QAM	1	49	12.71	12.73	12.58	
10	256QAM	25	0	11.67	11.82	11.85	13
10	256QAM	25	12	11.61	11.84	11.84	
10	256QAM	25	25	11.80	11.66	11.65	
10	256QAM	50	0	11.68	11.87	11.63	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	17.76	17.83	17.70	19
5	QPSK	1	12	17.62	17.52	17.51	
5	QPSK	1	24	17.54	17.62	17.63	
5	QPSK	12	0	16.61	16.79	16.69	18
5	QPSK	12	7	16.51	16.71	16.56	
5	QPSK	12	13	16.57	16.67	16.61	
5	QPSK	25	0	16.53	16.58	16.55	
5	16QAM	1	0	16.95	16.82	16.80	18
5	16QAM	1	12	16.84	16.92	16.85	
5	16QAM	1	24	16.64	16.76	16.68	
5	16QAM	12	0	15.81	15.82	15.78	17
5	16QAM	12	7	15.53	15.74	15.72	
5	16QAM	12	13	15.68	15.59	15.56	
5	16QAM	25	0	15.56	15.57	15.60	
5	64QAM	1	0	15.64	15.69	15.65	17
5	64QAM	1	12	15.72	15.77	15.73	
5	64QAM	1	24	15.54	15.52	15.58	
5	64QAM	12	0	14.75	14.76	14.68	16
5	64QAM	12	7	14.44	14.58	14.65	
5	64QAM	12	13	14.68	14.76	14.65	
5	64QAM	25	0	14.55	14.59	14.57	
5	256QAM	1	0	12.88	12.89	12.72	14
5	256QAM	1	12	12.59	12.80	12.90	
5	256QAM	1	24	12.67	12.57	12.54	
5	256QAM	12	0	11.70	11.85	11.69	13
5	256QAM	12	7	11.63	11.77	11.82	
5	256QAM	12	13	11.66	11.68	11.62	
5	256QAM	25	0	11.63	11.78	11.56	

Band 25 (1900MHz Band) (dBm)_ANT 0 Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	16.91	16.95	16.87	18
20	QPSK	1	49	16.85	16.80	16.72	
20	QPSK	1	99	16.73	16.68	16.77	
20	QPSK	50	0	16.01	16.09	15.96	17
20	QPSK	50	24	15.90	15.95	15.94	
20	QPSK	50	50	15.91	15.85	15.80	
20	QPSK	100	0	15.81	15.99	15.94	
20	16QAM	1	0	15.98	16.03	16.15	17
20	16QAM	1	49	15.96	15.95	16.10	
20	16QAM	1	99	15.98	16.10	15.92	
20	16QAM	50	0	15.03	14.97	14.95	16
20	16QAM	50	24	14.95	14.99	14.91	
20	16QAM	50	50	14.72	14.91	14.75	
20	16QAM	100	0	14.94	14.91	14.99	
20	64QAM	1	0	14.96	14.95	14.95	16
20	64QAM	1	49	14.91	14.82	14.91	
20	64QAM	1	99	14.88	14.95	14.91	
20	64QAM	50	0	13.80	13.98	13.83	15
20	64QAM	50	24	13.72	13.69	13.89	
20	64QAM	50	50	13.88	13.76	13.85	
20	64QAM	100	0	13.81	13.73	13.88	
20	256QAM	1	0	11.83	12.03	11.79	13
20	256QAM	1	49	11.73	11.89	11.94	
20	256QAM	1	99	11.75	11.67	11.68	
20	256QAM	50	0	10.65	10.94	10.78	12
20	256QAM	50	24	10.66	10.81	10.86	
20	256QAM	50	50	10.71	10.70	10.73	
20	256QAM	100	0	10.67	10.78	10.66	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	16.88	16.91	16.86	18
15	QPSK	1	37	16.83	16.87	16.74	
15	QPSK	1	74	16.84	16.68	16.68	
15	QPSK	36	0	15.85	16.03	16.01	17
15	QPSK	36	20	15.85	15.89	15.77	
15	QPSK	36	39	15.89	15.92	15.75	
15	QPSK	75	0	15.89	15.80	15.74	
15	16QAM	1	0	16.03	16.09	16.05	17
15	16QAM	1	37	15.94	16.04	15.88	
15	16QAM	1	74	16.02	15.93	15.85	
15	16QAM	36	0	14.99	14.94	15.01	16
15	16QAM	36	20	14.90	15.05	14.98	
15	16QAM	36	39	14.70	15.04	14.83	
15	16QAM	75	0	14.74	14.82	15.03	
15	64QAM	1	0	14.99	14.88	14.88	16
15	64QAM	1	37	14.89	15.06	14.82	
15	64QAM	1	74	14.88	14.78	14.90	
15	64QAM	36	0	13.81	13.99	13.93	15
15	64QAM	36	20	13.74	13.75	13.88	
15	64QAM	36	39	13.75	14.00	13.72	
15	64QAM	75	0	13.71	13.96	13.90	
15	256QAM	1	0	11.76	11.88	11.66	13
15	256QAM	1	37	11.59	11.85	11.84	
15	256QAM	1	74	11.77	11.61	11.67	
15	256QAM	36	0	10.68	10.90	10.69	12
15	256QAM	36	20	10.66	10.82	10.77	
15	256QAM	36	39	10.69	10.80	10.59	
15	256QAM	75	0	10.62	10.88	10.57	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	16.88	16.90	16.85	18
10	QPSK	1	25	16.79	16.87	16.72	
10	QPSK	1	49	16.83	16.85	16.80	
10	QPSK	25	0	15.94	16.08	15.85	17
10	QPSK	25	12	15.76	15.96	15.98	
10	QPSK	25	25	15.76	15.79	15.81	
10	QPSK	50	0	15.80	15.90	15.84	
10	16QAM	1	0	16.16	16.18	16.08	17
10	16QAM	1	25	16.15	16.00	15.97	
10	16QAM	1	49	16.04	16.07	15.90	
10	16QAM	25	0	14.84	15.06	15.05	16
10	16QAM	25	12	14.74	14.96	14.81	
10	16QAM	25	25	14.90	14.99	14.76	
10	16QAM	50	0	14.91	15.00	15.01	
10	64QAM	1	0	14.93	14.94	14.88	16
10	64QAM	1	25	14.75	15.03	14.92	
10	64QAM	1	49	14.78	14.78	14.77	
10	64QAM	25	0	13.81	13.93	13.87	15
10	64QAM	25	12	13.77	13.90	13.89	
10	64QAM	25	25	13.89	13.85	13.87	
10	64QAM	50	0	13.76	13.89	13.67	
10	256QAM	1	0	11.92	11.84	11.73	13
10	256QAM	1	25	11.63	11.81	11.89	
10	256QAM	1	49	11.75	11.59	11.57	
10	256QAM	25	0	10.63	10.89	10.80	12
10	256QAM	25	12	10.67	10.86	10.82	
10	256QAM	25	25	10.72	10.76	10.77	
10	256QAM	50	0	10.74	10.79	10.68	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	16.84	16.92	16.85	18
5	QPSK	1	12	16.80	16.89	16.68	
5	QPSK	1	24	16.74	16.78	16.84	
5	QPSK	12	0	16.04	16.08	16.03	17
5	QPSK	12	7	15.88	16.03	15.97	
5	QPSK	12	13	15.82	15.96	15.79	
5	QPSK	25	0	15.88	15.77	15.83	
5	16QAM	1	0	16.04	16.06	15.98	17
5	16QAM	1	12	15.90	16.03	16.08	

5	16QAM	1	24	15.85	15.98	15.90	
5	16QAM	12	0	14.87	15.05	15.10	16
5	16QAM	12	7	14.84	15.08	14.85	
5	16QAM	12	13	14.91	14.99	14.86	
5	16QAM	25	0	14.79	14.80	14.79	
5	64QAM	1	0	14.93	15.05	14.96	16
5	64QAM	1	12	14.87	14.88	14.85	
5	64QAM	1	24	14.83	14.75	14.72	
5	64QAM	12	0	13.96	14.02	14.02	15
5	64QAM	12	7	13.85	13.81	13.91	
5	64QAM	12	13	13.95	13.88	13.73	
5	64QAM	25	0	13.67	13.71	13.88	
5	256QAM	1	0	11.92	11.84	11.75	13
5	256QAM	1	12	11.74	11.79	11.86	
5	256QAM	1	24	11.74	11.74	11.69	
5	256QAM	12	0	10.66	10.95	10.79	12
5	256QAM	12	7	10.76	10.87	10.93	
5	256QAM	12	13	10.67	10.73	10.73	
5	256QAM	25	0	10.71	10.74	10.55	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	16.86	16.89	16.80	18
3	QPSK	1	8	16.77	16.87	16.71	
3	QPSK	1	14	16.77	16.83	16.80	
3	QPSK	8	0	15.84	15.90	15.95	17
3	QPSK	8	4	15.96	15.88	15.98	
3	QPSK	8	7	15.80	15.93	15.69	
3	QPSK	15	0	15.78	15.95	15.70	
3	16QAM	1	0	15.98	16.06	15.97	17
3	16QAM	1	8	15.94	16.07	16.03	
3	16QAM	1	14	15.83	15.93	15.89	
3	16QAM	8	0	15.05	15.06	14.90	16
3	16QAM	8	4	14.73	14.85	15.02	
3	16QAM	8	7	14.77	14.94	14.96	
3	16QAM	15	0	14.83	14.81	14.84	
3	64QAM	1	0	14.87	15.06	14.95	16
3	64QAM	1	8	14.83	14.91	14.93	
3	64QAM	1	14	14.89	14.87	14.71	
3	64QAM	8	0	13.86	13.99	13.98	15
3	64QAM	8	4	13.72	13.69	13.80	
3	64QAM	8	7	13.85	13.89	13.76	
3	64QAM	15	0	13.79	13.80	13.69	
3	256QAM	1	0	11.94	12.02	11.62	13
3	256QAM	1	8	11.73	11.94	11.92	
3	256QAM	1	14	11.84	11.73	11.71	
3	256QAM	8	0	10.73	10.94	10.68	18
3	256QAM	8	4	10.74	10.79	10.86	
3	256QAM	8	7	10.81	10.67	10.75	
3	256QAM	15	0	10.71	10.91	10.63	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	16.82	16.87	16.84	18
1.4	QPSK	1	3	16.71	16.70	16.78	
1.4	QPSK	1	5	16.70	16.65	16.76	
1.4	QPSK	3	0	15.97	15.92	15.92	
1.4	QPSK	3	1	15.84	16.02	16.00	
1.4	QPSK	3	3	15.88	15.85	15.69	
1.4	QPSK	6	0	15.87	15.95	15.80	17
1.4	16QAM	1	0	15.92	16.02	15.93	16
1.4	16QAM	1	3	15.96	15.94	15.94	
1.4	16QAM	1	5	15.98	16.14	15.99	
1.4	16QAM	3	0	15.04	15.05	14.94	
1.4	16QAM	3	1	14.86	15.02	14.86	
1.4	16QAM	3	3	14.70	14.91	14.97	
1.4	16QAM	6	0	14.83	14.76	14.81	15
1.4	64QAM	1	0	14.88	14.97	14.93	16
1.4	64QAM	1	3	14.90	15.05	14.88	
1.4	64QAM	1	5	14.88	14.86	14.81	
1.4	64QAM	3	0	13.99	14.02	13.82	
1.4	64QAM	3	1	13.76	13.91	14.04	
1.4	64QAM	3	3	13.80	13.81	13.97	
1.4	64QAM	6	0	13.78	13.79	13.89	15
1.4	256QAM	1	0	11.74	11.97	11.69	13
1.4	256QAM	1	3	11.62	11.84	11.96	
1.4	256QAM	1	5	11.72	11.59	11.60	
1.4	256QAM	3	0	10.58	10.72	10.76	
1.4	256QAM	3	1	10.61	10.71	10.93	
1.4	256QAM	3	3	10.73	10.80	10.71	
1.4	256QAM	6	0	10.60	10.76	10.53	18

Band 26 for FCC (dBm)_ANT 4 (only on channel required)							
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	20.10	20.12	20.05	
15	QPSK	1	37	20.00	20.04	19.97	21
15	QPSK	1	74	19.98	19.96	19.93	
15	QPSK	36	0	19.15	19.24	19.12	
15	QPSK	36	20	18.94	18.98	19.11	20
15	QPSK	36	39	19.06	19.04	18.97	
15	QPSK	75	0	19.03	19.04	18.91	
15	16QAM	1	0	19.34	19.25	19.12	
15	16QAM	1	37	19.18	19.26	19.22	20
15	16QAM	1	74	19.05	19.17	19.01	
15	16QAM	36	0	17.96	18.07	18.26	
15	16QAM	36	20	18.08	18.14	18.11	19
15	16QAM	36	39	17.95	18.00	18.07	
15	16QAM	75	0	17.91	18.11	18.10	
15	64QAM	1	0	18.04	18.20	18.15	
15	64QAM	1	37	18.03	17.98	17.94	19
15	64QAM	1	74	17.92	17.97	17.92	
15	64QAM	36	0	16.96	17.21	17.09	
15	64QAM	36	20	17.04	17.05	16.97	18
15	64QAM	36	39	16.99	17.09	17.13	
15	64QAM	75	0	16.95	16.91	16.97	
15	256QAM	1	0	14.85	14.89	14.65	
15	256QAM	1	37	14.71	14.74	14.76	16
15	256QAM	1	74	14.72	14.58	14.68	
15	256QAM	36	0	13.67	13.92	13.85	
15	256QAM	36	20	13.75	13.82	13.88	15
15	256QAM	36	39	13.69	13.66	13.79	
15	256QAM	75	0	13.62	13.84	13.70	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	20.07	20.09	20.01	
10	QPSK	1	25	20.00	19.97	19.94	21
10	QPSK	1	49	19.98	20.03	19.79	
10	QPSK	25	0	19.04	19.09	19.02	
10	QPSK	25	12	18.94	19.07	18.92	20
10	QPSK	25	25	19.03	18.94	18.99	
10	QPSK	50	0	18.97	19.15	18.96	
10	16QAM	1	0	19.15	19.31	19.11	
10	16QAM	1	25	19.27	19.22	19.18	20
10	16QAM	1	49	19.23	19.20	19.08	
10	16QAM	25	0	18.09	18.18	18.24	
10	16QAM	25	12	18.07	18.19	18.07	19
10	16QAM	25	25	17.95	18.09	18.10	
10	16QAM	50	0	18.04	17.93	18.10	
10	64QAM	1	0	18.03	18.19	18.20	
10	64QAM	1	25	17.99	18.10	18.05	19
10	64QAM	1	49	18.03	17.95	17.96	
10	64QAM	25	0	16.99	17.13	17.13	
10	64QAM	25	12	17.03	16.91	17.04	18
10	64QAM	25	25	16.94	17.14	17.10	
10	64QAM	50	0	16.83	16.90	17.04	
10	256QAM	1	0	14.78	14.84	14.62	
10	256QAM	1	25	14.59	14.77	14.79	16
10	256QAM	1	49	14.69	14.57	14.68	
10	256QAM	25	0	13.65	13.95	13.72	
10	256QAM	25	12	13.64	13.86	13.85	15
10	256QAM	25	25	13.73	13.74	13.68	
10	256QAM	50	0	13.72	13.83	13.46	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	19.96	20.08	20.04	
5	QPSK	1	12	19.95	20.03	19.89	21
5	QPSK	1	24	20.00	19.87	19.80	
5	QPSK	12	0	19.07	19.11	19.07	
5	QPSK	12	7	18.96	19.09	19.15	20
5	QPSK	12	13	19.06	19.04	18.97	
5	QPSK	25	0	18.89	18.93	19.04	
5	16QAM	1	0	19.27	19.35	19.24	
5	16QAM	1	12	19.14	19.12	19.13	20
5	16QAM	1	24	19.09	19.13	19.02	
5	16QAM	12	0	18.16	18.23	18.19	
5	16QAM	12	7	18.11	18.00	17.97	19
5	16QAM	12	13	18.07	17.97	17.93	
5	16QAM	25	0	18.04	18.13	18.10	
5	64QAM	1	0	18.03	18.18	18.19	
5	64QAM	1	12	17.94	18.10	18.14	19
5	64QAM	1	24	17.88	17.90	18.07	
5	64QAM	12	0	17.02	17.14	16.97	
5	64QAM	12	7	16.96	16.98	17.18	18
5	64QAM	12	13	17.06	17.01	17.03	
5	64QAM	25	0	16.82	16.93	17.05	
5	256QAM	1	0	14.87	14.91	14.58	
5	256QAM	1	12	14.77	14.87	14.85	16
5	256QAM	1	24	14.73	14.59	14.64	
5	256QAM	12	0	13.59	14.00	13.70	
5	256QAM	12	7	13.69	13.76	13.83	15
5	256QAM	12	13	13.75	13.78	13.71	
5	256QAM	25	0	13.64	13.91	13.58	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	20.00	20.06	19.99	
3	QPSK	1	8	20.05	20.01	19.86	21
3	QPSK	1	14	19.95	20.00	19.83	
3	QPSK	8	0	19.15	19.18	19.11	
3	QPSK	8	4	19.13	19.14	18.98	20
3	QPSK	8	7	19.09	19.04	18.97	
3	QPSK	15	0	18.93	19.07	18.95	
3	16QAM	1	0	19.22	19.37	19.32	
3	16QAM	1	8	19.19	19.25	19.14	20

3	16QAM	1	14	19.01	19.09	19.00	
3	16QAM	8	0	18.17	18.22	18.02	19
3	16QAM	8	4	17.95	18.10	18.09	
3	16QAM	8	7	18.07	18.13	17.96	
3	16QAM	15	0	17.95	17.98	17.95	
3	64QAM	1	0	18.21	18.24	18.18	19
3	64QAM	1	8	18.06	18.12	18.07	
3	64QAM	1	14	17.94	18.04	17.94	
3	64QAM	8	0	17.05	17.08	16.98	18
3	64QAM	8	4	17.02	16.93	16.96	
3	64QAM	8	7	16.89	17.04	17.05	
3	64QAM	15	0	16.95	17.05	16.90	
3	256QAM	1	0	14.84	14.86	14.74	16
3	256QAM	1	8	14.74	14.79	14.87	
3	256QAM	1	14	14.79	14.64	14.63	
3	256QAM	8	0	13.76	13.98	13.69	15
3	256QAM	8	4	13.66	13.82	13.96	
3	256QAM	8	7	13.73	13.70	13.60	
3	256QAM	15	0	13.62	13.76	13.55	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	19.98	20.07	20.01	21
1.4	QPSK	1	3	19.88	19.95	19.99	
1.4	QPSK	1	5	20.04	19.90	19.97	
1.4	QPSK	3	0	19.10	19.08	19.09	
1.4	QPSK	3	1	18.91	19.13	19.06	
1.4	QPSK	3	3	19.07	18.99	18.95	
1.4	QPSK	6	0	19.09	18.95	19.06	20
1.4	16QAM	1	0	19.25	19.24	19.27	20
1.4	16QAM	1	3	19.13	19.25	19.17	
1.4	16QAM	1	5	19.15	19.17	19.00	
1.4	16QAM	3	0	18.04	18.07	18.11	
1.4	16QAM	3	1	18.05	18.03	18.10	
1.4	16QAM	3	3	18.00	18.08	17.91	
1.4	16QAM	6	0	18.10	17.93	18.19	19
1.4	64QAM	1	0	17.99	18.14	17.98	19
1.4	64QAM	1	3	18.03	18.01	18.10	
1.4	64QAM	1	5	17.88	17.91	17.89	
1.4	64QAM	3	0	16.91	17.01	17.18	
1.4	64QAM	3	1	16.87	16.87	17.04	
1.4	64QAM	3	3	16.93	16.92	17.02	
1.4	64QAM	6	0	17.04	16.90	16.94	18
1.4	256QAM	1	0	14.85	15.01	14.69	16
1.4	256QAM	1	3	14.58	14.75	14.96	
1.4	256QAM	1	5	14.77	14.70	14.64	
1.4	256QAM	3	0	13.63	13.83	13.85	
1.4	256QAM	3	1	13.58	13.71	13.74	
1.4	256QAM	3	3	13.70	13.72	13.59	
1.4	256QAM	6	0	13.59	13.82	13.69	15

Band 30 (dBm)_ANT 0

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		19.73		21
10	QPSK	1	25		19.72		
10	QPSK	1	49		19.55		
10	QPSK	25	0		18.86		20
10	QPSK	25	12		18.71		
10	QPSK	25	25		18.76		
10	QPSK	50	0		18.72		
10	16QAM	1	0		19.01		20
10	16QAM	1	25		18.85		
10	16QAM	1	49		18.87		
10	16QAM	25	0		17.81		19
10	16QAM	25	12		17.85		
10	16QAM	25	25		17.74		
10	16QAM	50	0		17.78		
10	64QAM	1	0		17.88		19
10	64QAM	1	25		17.67		
10	64QAM	1	49		17.67		
10	64QAM	25	0		16.86		18
10	64QAM	25	12		16.65		
10	64QAM	25	25		16.77		
10	64QAM	50	0		16.59		
10	256QAM	1	0		14.73		16
10	256QAM	1	25		14.50		
10	256QAM	1	49		14.29		
10	256QAM	25	0		13.73		15
10	256QAM	25	12		13.48		
10	256QAM	25	25		13.52		
10	256QAM	50	0		13.58		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	19.56	19.70	19.62	21
5	QPSK	1	12	19.63	19.64	19.59	
5	QPSK	1	24	19.62	19.58	19.63	
5	QPSK	12	0	18.78	18.85	18.85	20
5	QPSK	12	7	18.66	18.86	18.76	
5	QPSK	12	13	18.57	18.83	18.60	
5	QPSK	25	0	18.60	18.65	18.54	
5	16QAM	1	0	18.79	18.89	18.90	20
5	16QAM	1	12	18.84	18.76	18.84	
5	16QAM	1	24	18.76	18.83	18.74	
5	16QAM	12	0	17.66	17.72	17.84	19
5	16QAM	12	7	17.57	17.75	17.74	
5	16QAM	12	13	17.52	17.71	17.78	
5	16QAM	25	0	17.66	17.69	17.67	
5	64QAM	1	0	17.88	17.91	17.81	19
5	64QAM	1	12	17.78	17.76	17.64	
5	64QAM	1	24	17.57	17.58	17.71	
5	64QAM	12	0	16.58	16.80	16.72	18
5	64QAM	12	7	16.72	16.70	16.81	
5	64QAM	12	13	16.52	16.78	16.66	
5	64QAM	25	0	16.65	16.62	16.70	
5	256QAM	1	0	14.58	14.71	14.36	16
5	256QAM	1	12	14.34	14.55	14.53	
5	256QAM	1	24	14.43	14.37	14.39	
5	256QAM	12	0	13.34	13.63	13.48	15
5	256QAM	12	7	13.44	13.54	13.55	
5	256QAM	12	13	13.57	13.38	13.34	
5	256QAM	25	0	13.39	13.55	13.32	

Band 66 (dBm)_ANT 0

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	17.87	17.98	17.90	19
20	QPSK	1	49	17.69	17.84	17.80	
20	QPSK	1	99	17.72	17.79	17.71	
20	QPSK	50	0	16.95	16.99	16.87	18
20	QPSK	50	24	16.80	16.92	16.93	
20	QPSK	50	50	16.81	16.88	16.63	
20	QPSK	100	0	16.83	16.91	16.85	
20	16QAM	1	0	17.06	17.03	16.97	18
20	16QAM	1	49	17.11	17.06	17.17	
20	16QAM	1	99	17.07	17.24	16.97	
20	16QAM	50	0	15.95	16.05	16.03	17
20	16QAM	50	24	15.87	15.99	15.83	
20	16QAM	50	50	15.94	15.91	15.84	
20	16QAM	100	0	15.70	15.92	15.93	
20	64QAM	1	0	15.91	16.09	15.72	17
20	64QAM	1	49	15.88	15.91	15.74	
20	64QAM	1	99	16.10	15.86	15.83	
20	64QAM	50	0	14.91	15.05	14.80	16
20	64QAM	50	24	14.83	14.83	14.99	
20	64QAM	50	50	15.01	14.79	14.82	
20	64QAM	100	0	14.92	14.93	14.66	
20	256QAM	1	0	12.79	12.94	12.62	14
20	256QAM	1	49	12.74	12.80	12.78	
20	256QAM	1	99	12.67	12.70	12.67	
20	256QAM	50	0	11.73	11.98	11.74	13
20	256QAM	50	24	11.69	11.70	11.77	
20	256QAM	50	50	11.74	11.78	11.48	
20	256QAM	100	0	11.74	11.76	11.61	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	17.84	17.95	17.92	19
15	QPSK	1	37	17.72	17.77	17.61	
15	QPSK	1	74	17.79	17.75	17.78	
15	QPSK	36	0	16.91	17.03	16.81	18
15	QPSK	36	20	16.81	16.98	16.78	
15	QPSK	36	39	16.79	16.94	16.66	
15	QPSK	75	0	16.82	16.86	16.91	
15	16QAM	1	0	17.11	17.12	17.11	18
15	16QAM	1	37	17.12	17.04	17.16	
15	16QAM	1	74	16.93	17.08	16.93	
15	16QAM	36	0	15.99	16.07	16.01	17
15	16QAM	36	20	15.77	15.98	15.94	
15	16QAM	36	39	15.94	16.01	15.77	
15	16QAM	75	0	15.77	15.88	15.93	
15	64QAM	1	0	15.85	16.08	15.89	17
15	64QAM	1	37	15.82	15.97	15.74	
15	64QAM	1	74	15.93	15.96	15.81	
15	64QAM	36	0	14.89	15.05	14.77	16
15	64QAM	36	20	14.91	14.76	14.93	
15	64QAM	36	39	14.95	14.89	14.74	
15	64QAM	75	0	14.86	15.02	14.69	
15	256QAM	1	0	12.81	12.94	12.62	14
15	256QAM	1	37	12.59	12.93	12.79	
15	256QAM	1	74	12.80	12.75	12.68	
15	256QAM	36	0	11.63	11.85	11.81	13
15	256QAM	36	20	11.68	11.89	11.85	
15	256QAM	36	39	11.69	11.68	11.59	
15	256QAM	75	0	11.62	11.78	11.65	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	17.87	17.93	17.77	19
10	QPSK	1	25	17.76	17.90	17.63	
10	QPSK	1	49	17.66	17.86	17.61	
10	QPSK	25	0	17.02	17.04	16.81	18
10	QPSK	25	12	16.90	17.11	16.87	
10	QPSK	25	25	16.83	16.95	16.79	
10	QPSK	50	0	16.78	16.84	16.80	
10	16QAM	1	0	17.03	17.04	17.11	18
10	16QAM	1	25	17.13	17.18	17.13	
10	16QAM	1	49	17.07	17.09	16.99	
10	16QAM	25	0	16.02	16.04	16.02	17
10	16QAM	25	12	15.81	16.07	15.87	
10	16QAM	25	25	15.94	15.91	15.81	
10	16QAM	50	0	15.81	15.87	15.94	
10	64QAM	1	0	15.95	15.96	15.83	17
10	64QAM	1	25	15.80	15.84	15.84	
10	64QAM	1	49	16.09	15.84	15.85	
10	64QAM	25	0	14.80	15.10	14.75	16
10	64QAM	25	12	15.03	14.87	14.98	
10	64QAM	25	25	14.91	14.79	14.73	
10	64QAM	50	0	14.80	14.93	14.68	
10	256QAM	1	0	12.78	13.01	12.69	14
10	256QAM	1	25	12.68	12.94	12.78	
10	256QAM	1	49	12.85	12.57	12.59	
10	256QAM	25	0	11.71	11.92	11.75	13
10	256QAM	25	12	11.68	11.82	11.95	
10	256QAM	25	25	11.79	11.71	11.57	
10	256QAM	50	0	11.62	11.79	11.64	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	17.89	17.94	17.81	19
5	QPSK	1	12	17.75	17.88	17.74	
5	QPSK	1	24	17.64	17.78	17.63	
5	QPSK	12	0	17.03	16.98	16.96	18
5	QPSK	12	7	16.93	17.04	16.92	
5	QPSK	12	13	16.81	17.05	16.76	
5	QPSK	25	0	16.87	16.82	16.85	
5	16QAM	1	0	17.09	17.06	17.12	18
5	16QAM	1	12	17.05	17.14	17.15	

5	16QAM	1	24	16.98	17.14	16.93	
5	16QAM	12	0	16.05	16.16	16.04	17
5	16QAM	12	7	15.86	16.02	16.02	
5	16QAM	12	13	15.86	15.89	15.87	
5	16QAM	25	0	15.85	15.72	15.83	
5	64QAM	1	0	15.94	16.01	15.88	17
5	64QAM	1	12	15.75	15.87	15.74	
5	64QAM	1	24	15.99	15.79	15.75	
5	64QAM	12	0	14.74	14.95	14.79	16
5	64QAM	12	7	14.84	14.77	14.85	
5	64QAM	12	13	14.86	14.85	14.71	
5	64QAM	25	0	14.88	14.91	14.72	
5	256QAM	1	0	12.78	12.94	12.59	14
5	256QAM	1	12	12.60	12.90	12.88	
5	256QAM	1	24	12.68	12.73	12.61	
5	256QAM	12	0	11.74	11.82	11.85	13
5	256QAM	12	7	11.72	11.70	11.80	
5	256QAM	12	13	11.73	11.65	11.63	
5	256QAM	25	0	11.59	11.74	11.66	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	17.75	17.91	17.76	19
3	QPSK	1	8	17.80	17.86	17.63	
3	QPSK	1	14	17.81	17.72	17.75	
3	QPSK	8	0	16.98	17.01	16.89	18
3	QPSK	8	4	16.75	17.02	16.98	
3	QPSK	8	7	16.77	16.91	16.74	
3	QPSK	15	0	16.74	16.76	16.80	
3	16QAM	1	0	17.03	17.05	17.12	18
3	16QAM	1	8	16.97	17.02	17.12	
3	16QAM	1	14	17.08	17.14	16.86	
3	16QAM	8	0	16.11	16.00	16.07	17
3	16QAM	8	4	15.90	15.97	15.90	
3	16QAM	8	7	15.87	16.00	15.87	
3	16QAM	15	0	15.73	15.88	15.93	
3	64QAM	1	0	15.79	16.02	15.77	17
3	64QAM	1	8	15.74	15.91	15.91	
3	64QAM	1	14	16.05	15.81	15.87	
3	64QAM	8	0	14.79	15.04	14.78	16
3	64QAM	8	4	14.95	14.78	14.89	
3	64QAM	8	7	14.90	14.96	14.78	
3	64QAM	15	0	14.89	14.92	14.69	
3	256QAM	1	0	12.82	12.84	12.76	14
3	256QAM	1	8	12.64	12.76	12.84	
3	256QAM	1	14	12.75	12.69	12.60	
3	256QAM	8	0	11.69	11.92	11.76	13
3	256QAM	8	4	11.74	11.73	11.84	
3	256QAM	8	7	11.74	11.71	11.81	
3	256QAM	15	0	11.62	11.74	11.69	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.84	17.92	17.86	19
1.4	QPSK	1	3	17.88	17.79	17.72	
1.4	QPSK	1	5	17.64	17.76	17.70	
1.4	QPSK	3	0	16.91	17.04	16.97	
1.4	QPSK	3	1	16.86	16.96	16.82	
1.4	QPSK	3	3	16.86	16.92	16.70	
1.4	QPSK	6	0	16.82	16.79	16.94	18
1.4	16QAM	1	0	17.06	17.06	16.99	18
1.4	16QAM	1	3	17.14	17.18	17.08	
1.4	16QAM	1	5	16.93	17.13	16.85	
1.4	16QAM	3	0	15.98	16.03	15.91	
1.4	16QAM	3	1	15.74	15.95	15.94	
1.4	16QAM	3	3	15.83	16.04	15.88	
1.4	16QAM	6	0	15.80	15.78	15.76	17
1.4	64QAM	1	0	15.86	16.06	15.80	17
1.4	64QAM	1	3	15.89	15.79	15.74	
1.4	64QAM	1	5	16.04	15.97	15.79	
1.4	64QAM	3	0	14.75	14.93	14.73	
1.4	64QAM	3	1	14.92	14.88	14.96	
1.4	64QAM	3	3	14.88	14.79	14.84	
1.4	64QAM	6	0	14.98	15.00	14.82	16
1.4	256QAM	1	0	12.82	12.86	12.78	14
1.4	256QAM	1	3	12.70	12.89	12.89	
1.4	256QAM	1	5	12.74	12.70	12.68	
1.4	256QAM	3	0	11.70	11.87	11.86	
1.4	256QAM	3	1	11.68	11.82	11.96	
1.4	256QAM	3	3	11.65	11.63	11.60	
1.4	256QAM	6	0	11.69	11.87	11.73	13

Band 66 (dBm)_ANT 1

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	19.16	19.17	19.09	
20	QPSK	1	49	18.88	19.03	18.99	20
20	QPSK	1	99	18.91	18.98	18.90	
20	QPSK	50	0	18.14	18.18	18.06	
20	QPSK	50	24	17.99	18.11	18.12	19
20	QPSK	50	50	18.00	18.07	17.82	
20	QPSK	100	0	18.02	18.10	18.04	
20	16QAM	1	0	18.25	18.22	18.16	
20	16QAM	1	49	18.30	18.25	18.36	19
20	16QAM	1	99	18.26	18.43	18.16	
20	16QAM	50	0	17.14	17.24	17.22	
20	16QAM	50	24	17.06	17.18	17.02	18
20	16QAM	50	50	17.13	17.10	17.03	
20	16QAM	100	0	16.89	17.11	17.12	
20	64QAM	1	0	17.10	17.28	16.91	
20	64QAM	1	49	17.07	17.10	16.93	18
20	64QAM	1	99	17.29	17.05	17.02	
20	64QAM	50	0	16.10	16.24	15.99	
20	64QAM	50	24	16.02	16.02	16.18	17
20	64QAM	50	50	16.20	15.98	16.01	
20	64QAM	100	0	16.11	16.12	15.85	
20	256QAM	1	0	13.98	14.13	13.81	
20	256QAM	1	49	13.93	13.99	13.97	15
20	256QAM	1	99	13.86	13.89	13.86	
20	256QAM	50	0	12.92	13.17	12.93	
20	256QAM	50	24	12.88	12.89	12.96	14
20	256QAM	50	50	12.93	12.97	12.67	
20	256QAM	100	0	12.93	12.95	12.80	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.03	19.14	19.11	
15	QPSK	1	37	18.91	18.96	18.80	20
15	QPSK	1	74	18.98	18.94	18.97	
15	QPSK	36	0	18.10	18.22	18.00	
15	QPSK	36	20	18.00	18.17	17.97	19
15	QPSK	36	39	17.98	18.13	17.85	
15	QPSK	75	0	18.01	18.05	18.10	
15	16QAM	1	0	18.30	18.31	18.30	
15	16QAM	1	37	18.31	18.23	18.35	19
15	16QAM	1	74	18.12	18.27	18.12	
15	16QAM	36	0	17.18	17.26	17.20	
15	16QAM	36	20	16.96	17.17	17.13	18
15	16QAM	36	39	17.13	17.20	16.96	
15	16QAM	75	0	16.96	17.07	17.12	
15	64QAM	1	0	17.04	17.27	17.08	
15	64QAM	1	37	17.01	17.16	16.93	18
15	64QAM	1	74	17.12	17.15	17.00	
15	64QAM	36	0	16.08	16.24	15.96	
15	64QAM	36	20	16.10	15.95	16.12	17
15	64QAM	36	39	16.14	16.08	15.93	
15	64QAM	75	0	16.05	16.21	15.88	
15	256QAM	1	0	14.00	14.13	13.81	
15	256QAM	1	37	13.78	14.12	13.98	15
15	256QAM	1	74	13.99	13.94	13.87	
15	256QAM	36	0	12.82	13.04	13.00	
15	256QAM	36	20	12.87	13.08	13.04	14
15	256QAM	36	39	12.88	12.87	12.78	
15	256QAM	75	0	12.81	12.97	12.84	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.06	19.12	18.96	
10	QPSK	1	25	18.95	19.09	18.82	20
10	QPSK	1	49	18.85	19.05	18.80	
10	QPSK	25	0	18.21	18.23	18.00	
10	QPSK	25	12	18.09	18.30	18.06	19
10	QPSK	25	25	18.02	18.14	17.98	
10	QPSK	50	0	17.97	18.03	17.99	
10	16QAM	1	0	18.22	18.23	18.30	
10	16QAM	1	25	18.32	18.37	18.32	19
10	16QAM	1	49	18.26	18.28	18.18	
10	16QAM	25	0	17.21	17.23	17.21	
10	16QAM	25	12	17.00	17.26	17.06	18
10	16QAM	25	25	17.13	17.10	17.00	
10	16QAM	50	0	17.00	17.06	17.13	
10	64QAM	1	0	17.14	17.15	17.02	
10	64QAM	1	25	16.99	17.03	17.03	18
10	64QAM	1	49	17.28	17.03	17.04	
10	64QAM	25	0	15.99	16.29	15.94	
10	64QAM	25	12	16.22	16.06	16.17	17
10	64QAM	25	25	16.10	15.98	15.92	
10	64QAM	50	0	15.99	16.12	15.87	
10	256QAM	1	0	13.97	14.20	13.88	
10	256QAM	1	25	13.87	14.13	13.97	15
10	256QAM	1	49	14.04	13.76	13.78	
10	256QAM	25	0	12.90	13.11	12.94	
10	256QAM	25	12	12.87	13.01	13.14	14
10	256QAM	25	25	12.98	12.90	12.76	
10	256QAM	50	0	12.81	12.98	12.83	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.08	19.13	19.00	
5	QPSK	1	12	18.94	19.07	18.93	20
5	QPSK	1	24	18.83	18.97	18.82	
5	QPSK	12	0	18.22	18.17	18.15	
5	QPSK	12	7	18.12	18.23	18.11	19
5	QPSK	12	13	18.00	18.24	17.95	
5	QPSK	25	0	18.06	18.01	18.04	
5	16QAM	1	0	18.28	18.25	18.31	
5	16QAM	1	12	18.24	18.33	18.34	19

5	16QAM	1	24	18.17	18.33	18.12	
5	16QAM	12	0	17.24	17.35	17.23	18
5	16QAM	12	7	17.05	17.21	17.21	
5	16QAM	12	13	17.05	17.08	17.06	
5	16QAM	25	0	17.04	16.91	17.02	
5	64QAM	1	0	17.13	17.20	17.07	18
5	64QAM	1	12	16.94	17.06	16.93	
5	64QAM	1	24	17.18	16.98	16.94	
5	64QAM	12	0	15.93	16.14	15.98	17
5	64QAM	12	7	16.03	15.96	16.04	
5	64QAM	12	13	16.05	16.04	15.90	
5	64QAM	25	0	16.07	16.10	15.91	
5	256QAM	1	0	13.97	14.13	13.78	15
5	256QAM	1	12	13.79	14.09	14.07	
5	256QAM	1	24	13.87	13.92	13.80	
5	256QAM	12	0	12.93	13.01	13.04	14
5	256QAM	12	7	12.91	12.89	12.99	
5	256QAM	12	13	12.92	12.84	12.82	
5	256QAM	25	0	12.78	12.93	12.85	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	18.94	19.10	18.95	20
3	QPSK	1	8	18.99	19.05	18.82	
3	QPSK	1	14	19.00	18.91	18.94	
3	QPSK	8	0	18.17	18.20	18.08	19
3	QPSK	8	4	17.94	18.21	18.17	
3	QPSK	8	7	17.96	18.10	17.93	
3	QPSK	15	0	17.93	17.95	17.99	
3	16QAM	1	0	18.22	18.24	18.31	19
3	16QAM	1	8	18.16	18.21	18.31	
3	16QAM	1	14	18.27	18.33	18.05	
3	16QAM	8	0	17.30	17.19	17.26	18
3	16QAM	8	4	17.09	17.16	17.09	
3	16QAM	8	7	17.06	17.19	17.06	
3	16QAM	15	0	16.92	17.07	17.12	
3	64QAM	1	0	16.98	17.21	16.96	18
3	64QAM	1	8	16.93	17.10	17.10	
3	64QAM	1	14	17.24	17.00	17.06	
3	64QAM	8	0	15.98	16.23	15.97	17
3	64QAM	8	4	16.14	15.97	16.08	
3	64QAM	8	7	16.09	16.15	15.97	
3	64QAM	15	0	16.08	16.11	15.88	
3	256QAM	1	0	14.01	14.03	13.95	15
3	256QAM	1	8	13.83	13.95	14.03	
3	256QAM	1	14	13.94	13.88	13.79	
3	256QAM	8	0	12.88	13.11	12.95	14
3	256QAM	8	4	12.93	12.92	13.03	
3	256QAM	8	7	12.93	12.90	13.00	
3	256QAM	15	0	12.81	12.93	12.88	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.03	19.11	19.05	20
1.4	QPSK	1	3	19.07	18.98	18.91	
1.4	QPSK	1	5	18.83	18.95	18.89	
1.4	QPSK	3	0	18.10	18.23	18.16	
1.4	QPSK	3	1	18.05	18.15	18.01	
1.4	QPSK	3	3	18.05	18.11	17.89	
1.4	QPSK	6	0	18.01	17.98	18.13	19
1.4	16QAM	1	0	18.25	18.25	18.18	19
1.4	16QAM	1	3	18.33	18.37	18.27	
1.4	16QAM	1	5	18.12	18.32	18.04	
1.4	16QAM	3	0	17.17	17.22	17.10	
1.4	16QAM	3	1	16.93	17.14	17.13	
1.4	16QAM	3	3	17.02	17.23	17.07	
1.4	16QAM	6	0	16.99	16.97	16.95	18
1.4	64QAM	1	0	17.05	17.25	16.99	18
1.4	64QAM	1	3	17.08	16.98	16.93	
1.4	64QAM	1	5	17.23	17.16	16.98	
1.4	64QAM	3	0	15.94	16.12	15.92	
1.4	64QAM	3	1	16.11	16.07	16.15	
1.4	64QAM	3	3	16.07	15.98	16.03	
1.4	64QAM	6	0	16.17	16.19	16.01	17
1.4	256QAM	1	0	14.01	14.05	13.97	15
1.4	256QAM	1	3	13.89	14.08	14.08	
1.4	256QAM	1	5	13.93	13.89	13.87	
1.4	256QAM	3	0	12.89	13.06	13.05	
1.4	256QAM	3	1	12.87	13.01	13.15	
1.4	256QAM	3	3	12.84	12.82	12.79	
1.4	256QAM	6	0	12.88	13.06	12.92	14

Band 71 (dBm)_ANT 4

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	19.78	19.86	19.77	21
20	QPSK	1	49	19.76	19.83	19.55	
20	QPSK	1	99	19.71	19.74	19.54	
20	QPSK	50	0	18.87	18.92	18.90	20
20	QPSK	50	24	18.82	18.90	18.82	
20	QPSK	50	50	18.79	18.84	18.66	
20	QPSK	100	0	18.80	18.77	18.87	
20	16QAM	1	0	18.93	19.12	18.88	20
20	16QAM	1	49	18.91	19.15	19.08	
20	16QAM	1	99	18.92	19.15	18.86	
20	16QAM	50	0	17.92	18.03	18.01	19
20	16QAM	50	24	17.82	17.92	17.80	
20	16QAM	50	50	17.80	17.95	17.71	
20	16QAM	100	0	17.74	17.74	17.74	
20	64QAM	1	0	17.78	18.01	17.73	19
20	64QAM	1	49	17.85	17.85	17.80	
20	64QAM	1	99	17.90	17.84	17.71	
20	64QAM	50	0	16.77	17.11	16.77	18
20	64QAM	50	24	16.81	16.68	16.82	
20	64QAM	50	50	16.88	16.80	16.82	
20	64QAM	100	0	16.87	17.01	16.70	
20	256QAM	1	0	14.78	14.93	14.73	16
20	256QAM	1	49	14.73	14.86	14.76	
20	256QAM	1	99	14.83	14.62	14.70	
20	256QAM	50	0	13.70	13.91	13.80	15
20	256QAM	50	24	13.57	13.81	13.92	
20	256QAM	50	50	13.80	13.66	13.56	
20	256QAM	100	0	13.61	13.77	13.68	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	19.82	19.84	19.71	21
15	QPSK	1	37	19.66	19.70	19.60	
15	QPSK	1	74	19.62	19.66	19.56	
15	QPSK	36	0	19.01	18.86	18.73	20
15	QPSK	36	20	18.70	18.92	18.77	
15	QPSK	36	39	18.87	18.88	18.70	
15	QPSK	75	0	18.73	18.75	18.74	
15	16QAM	1	0	18.95	19.09	19.01	20
15	16QAM	1	37	19.09	19.04	18.96	
15	16QAM	1	74	19.01	19.15	18.82	
15	16QAM	36	0	18.02	18.05	17.87	19
15	16QAM	36	20	17.77	17.82	17.87	
15	16QAM	36	39	17.76	17.96	17.82	
15	16QAM	75	0	17.76	17.82	17.78	
15	64QAM	1	0	17.73	18.04	17.76	19
15	64QAM	1	37	17.81	17.79	17.72	
15	64QAM	1	74	17.89	17.74	17.68	
15	64QAM	36	0	16.80	17.13	16.81	18
15	64QAM	36	20	16.84	16.88	16.97	
15	64QAM	36	39	16.96	16.90	16.78	
15	64QAM	75	0	16.80	16.96	16.60	
15	256QAM	1	0	14.92	14.86	14.75	16
15	256QAM	1	37	14.66	14.91	14.94	
15	256QAM	1	74	14.75	14.70	14.65	
15	256QAM	36	0	13.64	14.00	13.77	15
15	256QAM	36	20	13.75	13.76	13.92	
15	256QAM	36	39	13.68	13.68	13.59	
15	256QAM	75	0	13.60	13.79	13.64	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	19.76	19.80	19.79	21
10	QPSK	1	25	19.70	19.79	19.61	
10	QPSK	1	49	19.75	19.74	19.64	
10	QPSK	25	0	19.00	18.90	18.76	20
10	QPSK	25	12	18.81	18.93	18.86	
10	QPSK	25	25	18.76	18.95	18.73	
10	QPSK	50	0	18.84	18.76	18.75	
10	16QAM	1	0	18.98	19.03	18.91	20
10	16QAM	1	25	18.91	19.14	19.05	
10	16QAM	1	49	19.01	19.12	18.94	
10	16QAM	25	0	18.01	18.03	17.84	19
10	16QAM	25	12	17.71	17.87	17.96	
10	16QAM	25	25	17.89	17.78	17.72	
10	16QAM	50	0	17.70	17.85	17.82	
10	64QAM	1	0	17.90	18.03	17.79	19
10	64QAM	1	25	17.80	17.84	17.82	
10	64QAM	1	49	17.88	17.78	17.76	
10	64QAM	25	0	16.81	17.12	16.85	18
10	64QAM	25	12	16.77	16.87	16.91	
10	64QAM	25	25	16.91	16.80	16.79	
10	64QAM	50	0	16.80	16.88	16.81	
10	256QAM	1	0	14.74	14.93	14.77	16
10	256QAM	1	25	14.78	14.86	14.83	
10	256QAM	1	49	14.71	14.71	14.68	
10	256QAM	25	0	13.71	14.00	13.69	15
10	256QAM	25	12	13.58	13.73	13.91	
10	256QAM	25	25	13.79	13.80	13.62	
10	256QAM	50	0	13.57	13.82	13.59	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	19.73	19.79	19.74	21
5	QPSK	1	12	19.65	19.77	19.75	
5	QPSK	1	24	19.60	19.76	19.56	
5	QPSK	12	0	18.83	18.86	18.78	20
5	QPSK	12	7	18.75	18.89	18.81	
5	QPSK	12	13	18.67	18.85	18.63	
5	QPSK	25	0	18.79	18.84	18.82	
5	16QAM	1	0	18.96	19.07	18.92	20
5	16QAM	1	12	19.07	19.10	18.91	
5	16QAM	1	24	18.93	19.09	18.81	
5	16QAM	12	0	18.04	18.08	17.86	19
5	16QAM	12	7	17.80	17.91	17.96	
5	16QAM	12	13	17.73	17.80	17.83	
5	16QAM	25	0	17.75	17.83	17.75	
5	64QAM	1	0	17.93	17.91	17.85	19
5	64QAM	1	12	17.78	17.88	17.71	
5	64QAM	1	24	18.06	17.80	17.74	
5	64QAM	12	0	16.76	17.08	16.67	18
5	64QAM	12	7	16.84	16.79	16.86	
5	64QAM	12	13	16.78	16.86	16.76	
5	64QAM	25	0	16.81	16.93	16.71	
5	256QAM	1	0	14.91	14.91	14.68	16
5	256QAM	1	12	14.63	14.89	14.84	
5	256QAM	1	24	14.71	14.73	14.65	
5	256QAM	12	0	13.57	13.80	13.84	15
5	256QAM	12	7	13.69	13.88	13.86	
5	256QAM	12	13	13.68	13.68	13.59	
5	256QAM	25	0	13.71	13.89	13.72	

Band 42 (3450~3550MHz) (dBm)_ANT 2

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	13.25	13.33	13.27	14
20	QPSK	1	49	12.72	12.89	12.70	
20	QPSK	1	99	12.82	12.86	12.81	
20	QPSK	50	0	12.32	12.43	12.32	13
20	QPSK	50	24	11.90	11.95	11.85	
20	QPSK	50	50	11.79	11.98	11.68	
20	QPSK	100	0	11.93	11.82	11.91	
20	16QAM	1	0	12.13	12.18	12.03	13
20	16QAM	1	49	12.06	12.13	12.00	
20	16QAM	1	99	11.97	12.22	12.00	
20	16QAM	50	0	11.04	11.06	11.05	12
20	16QAM	50	24	10.78	11.00	10.87	
20	16QAM	50	50	10.92	11.06	10.86	
20	16QAM	100	0	10.81	10.92	10.79	
20	64QAM	1	0	10.96	11.03	10.81	12
20	64QAM	1	49	10.85	10.83	10.96	
20	64QAM	1	99	10.92	10.88	10.78	
20	64QAM	50	0	9.85	10.06	9.83	11
20	64QAM	50	24	9.86	9.96	9.95	
20	64QAM	50	50	9.98	9.81	9.86	
20	64QAM	100	0	10.01	10.13	9.82	
20	256QAM	1	0	7.54	7.72	7.59	9
20	256QAM	1	49	7.52	7.61	7.51	
20	256QAM	1	99	17.50	7.48	7.41	
20	256QAM	50	0	6.59	6.51	6.47	8
20	256QAM	50	24	6.48	6.43	6.53	
20	256QAM	50	50	6.46	6.46	6.41	
20	256QAM	100	0	6.50	6.54	6.42	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	12.86	12.90	12.86	14
15	QPSK	1	37	12.84	12.87	12.65	
15	QPSK	1	74	12.74	12.77	12.66	
15	QPSK	36	0	11.98	12.04	11.82	13
15	QPSK	36	20	11.89	12.03	11.83	
15	QPSK	36	39	11.86	11.96	11.77	
15	QPSK	75	0	11.88	11.95	11.96	
15	16QAM	1	0	11.95	12.12	11.96	13
15	16QAM	1	37	12.17	12.14	12.11	
15	16QAM	1	74	11.98	12.19	12.06	
15	16QAM	36	0	11.05	11.01	10.97	12
15	16QAM	36	20	10.75	10.90	10.95	
15	16QAM	36	39	10.91	11.01	10.88	
15	16QAM	75	0	10.92	10.93	10.84	
15	64QAM	1	0	10.94	11.03	10.74	12
15	64QAM	1	37	10.94	10.95	10.86	
15	64QAM	1	74	11.14	10.95	10.85	
15	64QAM	36	0	9.79	10.12	9.79	11
15	64QAM	36	20	9.96	9.91	9.94	
15	64QAM	36	39	10.01	9.89	9.77	
15	64QAM	75	0	9.84	10.13	9.81	
15	256QAM	1	0	7.58	7.63	7.61	9
15	256QAM	1	49	7.47	7.61	7.58	
15	256QAM	1	99	7.50	7.27	7.40	
15	256QAM	50	0	6.39	6.66	6.42	8
15	256QAM	50	24	6.59	6.58	6.61	
15	256QAM	50	50	6.44	6.47	6.52	
15	256QAM	100	0	6.51	6.61	6.53	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	12.84	12.89	12.82	14
10	QPSK	1	25	12.87	12.81	12.82	
10	QPSK	1	49	12.69	12.87	12.73	
10	QPSK	25	0	12.05	12.04	11.95	13
10	QPSK	25	12	11.85	12.03	11.97	
10	QPSK	25	25	11.86	12.05	11.73	
10	QPSK	50	0	11.82	11.93	11.94	
10	16QAM	1	0	12.03	12.05	12.08	13
10	16QAM	1	25	12.08	12.21	12.14	
10	16QAM	1	49	12.02	12.24	12.05	
10	16QAM	25	0	11.02	11.01	11.09	12
10	16QAM	25	12	10.86	11.08	11.05	
10	16QAM	25	25	10.94	10.91	10.82	
10	16QAM	50	0	10.91	10.77	10.93	
10	64QAM	1	0	10.94	11.15	10.88	12
10	64QAM	1	25	10.86	10.91	10.89	
10	64QAM	1	49	11.12	10.85	10.87	
10	64QAM	25	0	9.83	10.11	9.86	11
10	64QAM	25	12	9.97	9.86	9.95	
10	64QAM	25	25	9.90	9.85	9.82	
10	64QAM	50	0	10.02	10.00	9.77	
10	256QAM	1	0	7.54	7.67	7.49	9
10	256QAM	1	49	7.45	7.50	7.50	
10	256QAM	1	99	7.51	7.42	7.41	
10	256QAM	50	0	6.57	6.60	6.56	8
10	256QAM	50	24	6.48	6.40	6.58	
10	256QAM	50	50	6.52	6.52	6.53	
10	256QAM	100	0	6.44	6.55	6.49	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	12.81	12.87	12.82	14
5	QPSK	1	12	12.77	12.84	12.79	
5	QPSK	1	24	12.81	12.85	12.77	
5	QPSK	12	0	11.97	11.91	11.96	13
5	QPSK	12	7	11.95	11.95	11.84	
5	QPSK	12	13	11.76	11.93	11.74	
5	QPSK	25	0	11.76	11.81	11.80	
5	16QAM	1	0	12.13	12.10	12.09	13
5	16QAM	1	12	12.05	12.17	12.07	
5	16QAM	1	24	11.99	12.09	11.99	
5	16QAM	12	0	11.05	11.03	11.00	12
5	16QAM	12	7	10.87	11.02	10.87	
5	16QAM	12	13	10.88	11.03	10.86	
5	16QAM	25	0	10.78	10.87	10.86	
5	64QAM	1	0	10.93	11.17	10.86	

Band 42 (3550~3600MHz) (dBm)_ANT 2

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				43190	43340	43490	
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	13.24	13.27	13.22	14
20	QPSK	1	49	12.70	12.84	12.69	
20	QPSK	1	99	12.79	12.80	12.63	
20	QPSK	50	0	12.29	12.36	12.29	13
20	QPSK	50	24	11.77	11.88	11.76	
20	QPSK	50	50	11.75	11.94	11.58	
20	QPSK	100	0	11.81	11.87	11.85	
20	16QAM	1	0	11.99	11.99	11.92	13
20	16QAM	1	49	11.94	12.15	12.15	
20	16QAM	1	99	12.02	12.16	11.87	
20	16QAM	50	0	10.97	10.97	10.93	12
20	16QAM	50	24	10.83	10.93	10.92	
20	16QAM	50	50	10.93	10.92	10.69	
20	16QAM	100	0	10.74	10.75	10.85	
20	64QAM	1	0	10.77	10.95	10.72	12
20	64QAM	1	49	10.74	10.93	10.85	
20	64QAM	1	99	10.83	10.89	10.81	
20	64QAM	50	0	9.89	10.04	9.75	11
20	64QAM	50	24	9.99	9.75	10.01	
20	64QAM	50	50	10.01	9.75	9.80	
20	64QAM	100	0	9.77	9.95	9.82	
20	256QAM	1	0	7.54	7.65	7.63	9
20	256QAM	1	49	7.53	7.60	7.64	
20	256QAM	1	99	7.44	7.44	7.50	
20	256QAM	50	0	6.50	6.54	6.46	8
20	256QAM	50	24	6.42	6.58	6.48	
20	256QAM	50	50	6.38	6.48	6.41	
20	256QAM	100	0	6.45	6.53	6.48	
Channel				43165	43340	43515	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3575	3592.5	
15	QPSK	1	0	12.81	12.83	12.78	14
15	QPSK	1	37	12.74	12.77	12.63	
15	QPSK	1	74	12.62	12.70	12.62	
15	QPSK	36	0	11.89	11.94	11.78	13
15	QPSK	36	20	11.81	11.87	11.86	
15	QPSK	36	39	11.85	11.82	11.69	
15	QPSK	75	0	11.88	11.88	11.83	
15	16QAM	1	0	11.97	12.08	12.10	13
15	16QAM	1	37	11.93	12.12	12.07	
15	16QAM	1	74	11.88	12.10	11.96	
15	16QAM	36	0	11.03	10.96	10.94	12
15	16QAM	36	20	10.87	10.93	10.87	
15	16QAM	36	39	10.78	10.83	10.70	
15	16QAM	75	0	10.83	10.77	10.78	
15	64QAM	1	0	10.79	11.02	10.81	12
15	64QAM	1	37	10.92	10.90	10.72	
15	64QAM	1	74	11.09	10.89	10.80	
15	64QAM	36	0	9.76	10.06	9.84	11
15	64QAM	36	20	9.94	9.91	9.94	
15	64QAM	36	39	9.83	9.78	9.78	
15	64QAM	75	0	9.93	9.98	9.68	
15	256QAM	1	0	7.59	7.73	7.50	9
15	256QAM	1	49	7.48	7.55	7.50	
15	256QAM	1	99	7.53	7.39	7.41	
15	256QAM	50	0	6.34	6.60	6.50	8
15	256QAM	50	24	6.57	6.62	6.56	
15	256QAM	50	50	6.51	6.46	6.47	
15	256QAM	100	0	6.50	6.63	6.55	
Channel				43140	43340	43540	Tune-up limit (dBm)
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	12.82	12.85	12.79	14
10	QPSK	1	25	12.84	12.81	12.74	
10	QPSK	1	49	12.72	12.78	12.73	
10	QPSK	25	0	11.95	11.92	11.90	13
10	QPSK	25	12	11.87	11.82	11.79	
10	QPSK	25	25	11.76	11.90	11.67	
10	QPSK	50	0	11.79	11.83	11.76	
10	16QAM	1	0	11.94	12.00	11.99	13
10	16QAM	1	25	12.00	12.16	12.05	
10	16QAM	1	49	11.97	12.15	11.84	
10	16QAM	25	0	11.02	11.05	11.04	12
10	16QAM	25	12	10.80	10.91	10.81	
10	16QAM	25	25	10.83	11.01	10.76	
10	16QAM	50	0	10.69	10.78	10.93	
10	64QAM	1	0	10.78	11.04	10.77	12
10	64QAM	1	25	10.83	10.80	10.83	
10	64QAM	1	49	11.05	10.91	10.81	
10	64QAM	25	0	9.80	10.10	9.75	11
10	64QAM	25	12	9.97	9.79	9.87	
10	64QAM	25	25	9.99	9.93	9.79	
10	64QAM	50	0	9.79	10.05	9.83	
10	256QAM	1	0	7.49	7.55	7.58	9
10	256QAM	1	49	7.50	7.51	7.64	
10	256QAM	1	99	7.43	7.45	7.52	
10	256QAM	50	0	6.58	6.52	6.52	8
10	256QAM	50	24	6.51	6.58	6.51	
10	256QAM	50	50	6.50	6.48	6.44	
10	256QAM	100	0	6.44	6.59	6.51	
Channel				43115	43340	43565	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3575	3597.5	
5	QPSK	1	0	12.78	12.84	12.81	14
5	QPSK	1	12	12.80	12.80	12.63	
5	QPSK	1	24	12.67	12.71	12.67	
5	QPSK	12	0	11.94	11.95	11.87	13
5	QPSK	12	7	11.78	12.01	11.89	
5	QPSK	12	13	11.78	11.92	11.70	
5	QPSK	25	0	11.73	11.77	11.94	
5	16QAM	1	0	11.92	12.06	12.10	13
5	16QAM	1	12	12.09	12.01	12.14	
5	16QAM	1	24	11.90	12.23	11.89	
5	16QAM	12	0	11.08	10.94	10.99	12
5	16QAM	12	7	10.85	10.87	10.97	
5	16QAM	12	13	10.74	10.83	10.84	
5	16QAM	25	0	10.68	10.74	10.88	
5	64QAM	1	0	10.77	11.05	10.72	

5	64QAM	1	12	10.92	10.92	10.96	12
5	64QAM	1	24	11.00	10.82	10.84	
5	64QAM	12	0	9.95	10.07	9.94	11
5	64QAM	12	7	9.87	9.80	9.88	
5	64QAM	12	13	9.95	9.96	9.84	
5	64QAM	25	0	9.86	9.99	9.83	
5	256QAM	1	0	7.59	7.59	7.53	9
5	256QAM	1	49	7.43	7.45	7.57	
5	256QAM	1	99	7.51	7.30	7.42	
5	256QAM	50	0	6.52	6.56	6.55	8
5	256QAM	50	24	6.47	6.52	6.60	
5	256QAM	50	50	6.49	6.44	6.54	
5	256QAM	100	0	6.45	6.60	6.56	

5	64QAM	1	12	10.90	10.92	10.86	12
5	64QAM	1	24	10.98	10.90	10.75	
5	64QAM	12	0	9.77	10.10	9.88	11
5	64QAM	12	7	9.93	9.80	9.85	
5	64QAM	12	13	9.82	9.87	9.80	
5	64QAM	25	0	9.78	10.05	9.82	
5	256QAM	1	0	7.64	7.58	7.47	9
5	256QAM	1	49	7.51	7.59	7.51	
5	256QAM	1	99	7.45	7.42	7.47	
5	256QAM	50	0	6.55	6.69	6.49	8
5	256QAM	50	24	6.53	6.54	6.50	
5	256QAM	50	50	6.42	6.48	6.52	
5	256QAM	100	0	6.50	6.49	6.44	

Band 43 (3.6GHz Band) for FCC use (dBm)_ANT 2

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle channel	High channel	Tune-up limit (dBm)
Channel				43690	44090	44490	
Frequency (MHz)				3610	3650	3690	
20	QPSK	1	0	10.86	10.91	10.85	
20	QPSK	1	49	10.72	10.83	10.71	12
20	QPSK	1	99	10.66	10.66	10.68	
20	QPSK	50	0	9.95	9.96	9.74	
20	QPSK	50	24	9.71	9.83	9.74	11
20	QPSK	50	50	9.85	9.92	9.76	
20	QPSK	100	0	9.73	9.84	9.76	
20	16QAM	1	0	9.97	10.00	10.09	
20	16QAM	1	49	10.01	10.03	10.10	11
20	16QAM	1	99	9.89	10.08	9.90	
20	16QAM	50	0	8.97	9.01	8.93	
20	16QAM	50	24	8.76	8.93	8.75	10
20	16QAM	50	50	8.84	8.85	8.74	
20	16QAM	100	0	8.67	8.78	8.95	
20	64QAM	1	0	8.94	9.03	8.78	
20	64QAM	1	49	8.78	8.94	8.96	10
20	64QAM	1	99	8.87	8.75	8.68	
20	64QAM	50	0	7.76	8.00	7.87	
20	64QAM	50	24	7.77	7.89	7.97	9
20	64QAM	50	50	7.85	7.81	7.66	
20	64QAM	100	0	7.75	7.94	7.65	
20	256QAM	1	0	5.75	5.86	5.61	
20	256QAM	1	49	5.60	5.70	5.81	7
20	256QAM	1	99	5.62	5.56	5.47	
20	256QAM	50	0	4.47	4.87	4.76	
20	256QAM	50	24	4.47	4.73	4.86	6
20	256QAM	50	50	4.68	4.65	4.54	
20	256QAM	100	0	4.65	4.78	4.55	
Channel				43665	44090	44515	Tune-up limit (dBm)
Frequency (MHz)				3607.5	3650	3692.5	
15	QPSK	1	0	10.81	10.87	10.79	
15	QPSK	1	37	10.71	10.67	10.58	12
15	QPSK	1	74	10.68	10.72	10.54	
15	QPSK	36	0	9.96	9.98	9.94	
15	QPSK	36	20	9.79	9.81	9.84	11
15	QPSK	36	39	9.96	9.78	9.67	
15	QPSK	75	0	9.82	9.92	9.85	
15	16QAM	1	0	9.92	10.01	10.03	
15	16QAM	1	37	10.06	10.05	10.10	11
15	16QAM	1	74	9.91	9.95	9.81	
15	16QAM	36	0	8.96	8.96	8.88	
15	16QAM	36	20	8.71	9.01	8.86	10
15	16QAM	36	39	8.72	8.83	8.69	
15	16QAM	75	0	8.72	8.90	9.04	
15	64QAM	1	0	8.90	9.04	8.80	
15	64QAM	1	37	8.70	8.86	8.86	10
15	64QAM	1	74	8.86	8.89	8.77	
15	64QAM	36	0	7.83	7.96	7.93	
15	64QAM	36	20	7.70	7.88	7.93	9
15	64QAM	36	39	7.91	7.91	7.75	
15	64QAM	75	0	7.86	7.96	7.67	
15	256QAM	1	0	5.82	5.75	5.52	
15	256QAM	1	37	5.53	5.74	5.72	7
15	256QAM	1	74	5.59	5.62	5.53	
15	256QAM	36	0	4.60	4.86	4.62	
15	256QAM	36	20	4.61	4.67	4.75	6
15	256QAM	36	39	4.60	4.61	4.38	
15	256QAM	75	0	4.51	4.76	4.50	
Channel				43640	44090	44540	Tune-up limit (dBm)
Frequency (MHz)				3605	3650	3695	
10	QPSK	1	0	10.79	10.85	10.80	
10	QPSK	1	25	10.74	10.79	10.66	12
10	QPSK	1	49	10.66	10.76	10.64	
10	QPSK	25	0	9.94	9.89	9.82	
10	QPSK	25	12	9.80	9.97	9.83	11
10	QPSK	25	25	9.78	9.92	9.65	
10	QPSK	50	0	9.75	9.78	9.82	
10	16QAM	1	0	9.97	10.03	9.97	
10	16QAM	1	25	10.00	10.06	10.02	11
10	16QAM	1	49	9.93	10.11	9.89	
10	16QAM	25	0	8.98	9.01	8.94	
10	16QAM	25	12	8.76	8.92	8.87	10
10	16QAM	25	25	8.80	8.89	8.74	
10	16QAM	50	0	8.75	8.77	8.81	
10	64QAM	1	0	8.84	9.01	8.76	
10	64QAM	1	25	8.79	8.84	8.79	10
10	64QAM	1	49	8.98	8.84	8.75	
10	64QAM	25	0	7.78	8.07	7.77	
10	64QAM	25	12	7.88	7.79	7.89	9
10	64QAM	25	25	7.89	7.82	7.73	
10	64QAM	50	0	7.84	7.96	7.59	
10	256QAM	1	0	5.70	5.75	5.63	
10	256QAM	1	25	5.60	5.64	5.77	7
10	256QAM	1	49	5.57	5.63	5.51	
10	256QAM	25	0	4.54	4.82	4.67	
10	256QAM	25	12	4.52	4.75	4.87	6
10	256QAM	25	25	4.73	4.69	4.52	
10	256QAM	50	0	4.64	4.72	4.55	
Channel				43615	44090	44565	Tune-up limit (dBm)
Frequency (MHz)				3602.5	3650	3697.5	
5	QPSK	1	0	10.80	10.86	10.77	
5	QPSK	1	12	10.70	10.71	10.58	12
5	QPSK	1	24	10.72	10.73	10.63	
5	QPSK	12	0	9.83	9.98	9.87	
5	QPSK	12	7	9.86	9.92	9.87	11
5	QPSK	12	13	9.78	9.79	9.69	
5	QPSK	25	0	9.73	9.84	9.84	
5	16QAM	1	0	9.93	9.98	10.11	
5	16QAM	1	12	9.87	10.12	10.13	11
5	16QAM	1	24	10.02	9.96	9.94	
5	16QAM	12	0	8.85	8.98	8.98	
5	16QAM	12	7	8.66	8.89	8.90	10
5	16QAM	12	13	8.76	8.91	8.72	
5	16QAM	25	0	8.68	8.86	8.96	
5	64QAM	1	0	9.00	8.95	8.96	

Band 43 (3.7GHz Band) for FCC use (dBm)_ANT 2

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle channel	High channel	Tune-up limit (dBm)
Channel				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	10.89	10.95	10.83	
20	QPSK	1	49	10.66	10.92	10.63	12
20	QPSK	1	99	10.57	10.65	10.75	
20	QPSK	50	0	9.96	9.99	9.80	
20	QPSK	50	24	9.71	9.75	9.71	11
20	QPSK	50	50	9.88	9.82	9.82	
20	QPSK	100	0	9.80	9.86	9.77	
20	16QAM	1	0	9.98	9.99	10.02	
20	16QAM	1	49	10.09	10.09	10.04	11
20	16QAM	1	99	9.93	9.98	10.00	
20	16QAM	50	0	9.03	8.98	8.87	
20	16QAM	50	24	8.77	8.93	8.78	10
20	16QAM	50	50	8.76	8.79	8.70	
20	16QAM	100	0	8.74	8.79	9.02	
20	64QAM	1	0	9.03	9.10	8.83	
20	64QAM	1	49	8.72	8.89	8.93	10
20	64QAM	1	99	8.80	8.74	8.77	
20	64QAM	50	0	7.68	8.01	7.84	
20	64QAM	50	24	7.82	7.94	8.06	9
20	64QAM	50	50	7.93	7.84	7.71	
20	64QAM	100	0	7.78	7.94	7.72	
20	256QAM	1	0	5.74	5.89	5.66	
20	256QAM	1	49	5.58	5.67	5.81	7
20	256QAM	1	99	5.70	5.60	5.53	
20	256QAM	50	0	4.56	4.71	4.60	
20	256QAM	50	24	4.64	4.63	4.84	6
20	256QAM	50	50	4.67	4.61	4.47	
20	256QAM	100	0	4.47	4.72	4.45	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	10.86	10.91	10.78	
15	QPSK	1	37	10.70	10.75	10.68	12
15	QPSK	1	74	10.63	10.65	10.69	
15	QPSK	36	0	10.00	9.99	9.68	
15	QPSK	36	20	9.73	9.87	9.66	11
15	QPSK	36	39	9.75	10.02	9.81	
15	QPSK	75	0	9.63	9.76	9.78	
15	16QAM	1	0	10.02	10.10	10.08	
15	16QAM	1	37	9.94	9.96	10.17	11
15	16QAM	1	74	9.82	10.01	9.94	
15	16QAM	36	0	8.87	9.08	8.94	
15	16QAM	36	20	8.66	8.87	8.82	10
15	16QAM	36	39	8.79	8.83	8.70	
15	16QAM	75	0	8.72	8.87	8.88	
15	64QAM	1	0	9.02	8.96	8.80	
15	64QAM	1	37	8.76	8.94	8.89	10
15	64QAM	1	74	8.96	8.74	8.70	
15	64QAM	36	0	7.72	7.96	7.78	
15	64QAM	36	20	7.76	7.84	8.04	9
15	64QAM	36	39	7.83	7.83	7.60	
15	64QAM	75	0	7.69	8.02	7.71	
15	256QAM	1	0	5.68	5.83	5.66	
15	256QAM	1	37	5.65	5.77	5.86	7
15	256QAM	1	74	5.68	5.57	5.53	
15	256QAM	36	0	4.51	4.89	4.65	
15	256QAM	36	20	4.60	4.61	4.70	6
15	256QAM	36	39	4.75	4.68	4.48	
15	256QAM	75	0	4.60	4.73	4.48	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	0	10.77	10.92	10.75	
10	QPSK	1	25	10.79	10.90	10.67	12
10	QPSK	1	49	10.74	10.68	10.60	
10	QPSK	25	0	9.93	9.92	9.66	
10	QPSK	25	12	9.81	9.80	9.76	11
10	QPSK	25	25	9.82	9.99	9.68	
10	QPSK	50	0	9.70	9.81	9.76	
10	16QAM	1	0	10.04	10.10	10.10	
10	16QAM	1	25	9.92	10.08	10.02	11
10	16QAM	1	49	9.84	10.04	9.83	
10	16QAM	25	0	8.90	9.04	8.93	
10	16QAM	25	12	8.67	8.95	8.65	10
10	16QAM	25	25	8.86	8.75	8.74	
10	16QAM	50	0	8.73	8.70	9.01	
10	64QAM	1	0	9.04	8.99	8.70	
10	64QAM	1	25	8.81	8.89	8.90	10
10	64QAM	1	49	8.82	8.84	8.60	
10	64QAM	25	0	7.67	8.02	7.88	
10	64QAM	25	12	7.84	7.91	8.02	9
10	64QAM	25	25	7.87	7.88	7.74	
10	64QAM	50	0	7.67	7.98	7.75	
10	256QAM	1	0	5.72	5.85	5.63	
10	256QAM	1	25	5.48	5.65	5.66	7
10	256QAM	1	49	5.77	5.48	5.59	
10	256QAM	25	0	4.58	4.76	4.59	
10	256QAM	25	12	4.65	4.73	4.72	6
10	256QAM	25	25	4.69	4.59	4.46	
10	256QAM	50	0	4.58	4.73	4.56	
Channel				44615	45090	45565	Tune-up limit (dBm)
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	10.88	10.89	10.86	
5	QPSK	1	12	10.63	10.83	10.80	12
5	QPSK	1	24	10.60	10.75	10.77	
5	QPSK	12	0	9.88	9.89	9.68	
5	QPSK	12	7	9.61	9.77	9.84	11
5	QPSK	12	13	9.85	9.89	9.69	
5	QPSK	25	0	9.70	9.94	9.72	
5	16QAM	1	0	9.96	9.94	10.14	
5	16QAM	1	12	9.97	9.97	10.04	11
5	16QAM	1	24	9.92	10.03	10.00	
5	16QAM	12	0	8.95	9.05	8.84	
5	16QAM	12	7	8.79	9.00	8.85	10
5	16QAM	12	13	8.88	8.87	8.77	
5	16QAM	25	0	8.76	8.82	8.88	
5	64QAM	1	0	8.93	8.94	8.73	

5	64QAM	1	12	8.80	8.99	8.99	10
5	64QAM	1	24	8.93	8.76	8.70	
5	64QAM	12	0	7.78	8.00	7.79	9
5	64QAM	12	7	7.76	7.92	7.98	
5	64QAM	12	13	7.94	7.91	7.68	
5	64QAM	25	0	7.92	7.80	7.61	
5	256QAM	1	0	5.83	5.81	5.68	7
5	256QAM	1	12	5.50	5.76	5.86	
5	256QAM	1	24	5.76	5.64	5.52	
5	256QAM	12	0	4.52	4.79	4.67	6
5	256QAM	12	7	4.66	4.64	4.87	
5	256QAM	12	13	4.64	4.68	4.50	
5	256QAM	25	0	4.56	4.69	4.52	

5	64QAM	1	12	8.69	9.02	8.96	10
5	64QAM	1	24	8.97	8.66	8.71	
5	64QAM	12	0	7.86	8.10	7.88	9
5	64QAM	12	7	7.76	7.83	7.95	
5	64QAM	12	13	7.95	7.77	7.72	
5	64QAM	25	0	7.80	7.99	7.57	
5	256QAM	1	0	5.75	5.78	5.61	7
5	256QAM	1	12	5.49	5.72	5.77	
5	256QAM	1	24	5.71	5.57	5.55	
5	256QAM	12	0	4.48	4.73	4.72	6
5	256QAM	12	7	4.48	4.74	4.85	
5	256QAM	12	13	4.58	4.64	4.47	
5	256QAM	25	0	4.62	4.71	4.48	

Band 48 (3.5G Band) (dBm)_ANT 2 & ANT 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	13.17	13.20	13.23	13.18	13.10	14
20	QPSK	1	49	12.67	12.69	12.69	12.72	12.71	
20	QPSK	1	99	12.73	12.71	12.73	12.53	12.67	
20	QPSK	50	0	12.27	12.18	12.30	12.13	12.03	13
20	QPSK	50	24	11.72	11.71	11.77	11.81	11.70	
20	QPSK	50	50	11.72	11.63	11.85	11.66	11.50	
20	QPSK	100	0	11.74	11.65	11.74	11.67	11.48	
20	16QAM	1	0	12.00	11.95	12.05	12.00	11.85	13
20	16QAM	1	49	11.90	12.02	11.87	11.80	11.71	
20	16QAM	1	99	11.88	11.80	11.93	11.89	11.74	
20	16QAM	50	0	10.66	10.82	10.74	10.81	10.68	12
20	16QAM	50	24	10.68	10.69	10.77	10.65	10.49	
20	16QAM	50	50	10.66	10.59	10.79	10.52	10.43	
20	16QAM	100	0	10.69	10.63	10.73	10.67	10.53	
20	64QAM	1	0	10.86	10.87	10.91	10.70	10.77	12
20	64QAM	1	49	10.86	10.78	10.82	10.76	10.69	
20	64QAM	1	99	10.67	10.64	10.83	10.74	10.55	
20	64QAM	50	0	10.66	10.66	10.80	10.70	10.52	11
20	64QAM	50	24	10.55	10.69	10.67	10.68	10.56	
20	64QAM	50	50	10.71	10.56	10.66	10.57	10.47	
20	64QAM	100	0	10.66	10.56	10.74	10.60	10.42	
20	256QAM	1	0	7.67	7.61	7.68	7.55	7.40	8
20	256QAM	1	49	7.55	7.51	7.57	7.57	7.61	
20	256QAM	1	99	7.55	7.47	7.37	7.35	7.45	
20	256QAM	50	0	6.40	6.47	6.73	6.55	6.45	8
20	256QAM	50	24	6.46	6.50	6.63	6.62	6.58	
20	256QAM	50	50	6.45	6.61	6.44	6.36	6.42	
20	256QAM	100	0	6.45	6.49	6.65	6.33	6.30	
Channel				55315	55820	55990	56160.15	56665.15	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3625	3642.15	3692.65	
15	QPSK	1	0	12.71	12.77	12.79	12.78	12.73	14
15	QPSK	1	37	12.65	12.68	12.68	12.72	12.71	
15	QPSK	1	74	12.67	12.73	12.73	12.73	12.63	
15	QPSK	36	0	11.77	11.88	11.83	11.87	11.77	13
15	QPSK	36	20	11.79	11.76	11.81	11.89	11.83	
15	QPSK	36	39	11.80	11.81	11.83	11.71	11.69	
15	QPSK	75	0	11.70	11.66	11.78	11.72	11.82	
15	16QAM	1	0	12.06	11.88	12.02	12.02	12.04	13
15	16QAM	1	37	12.00	11.83	11.87	11.93	11.89	
15	16QAM	1	74	11.88	11.78	11.91	12.04	11.77	
15	16QAM	36	0	10.64	10.81	10.81	10.91	10.72	12
15	16QAM	36	20	10.61	10.76	10.72	10.89	10.66	
15	16QAM	36	39	10.58	10.60	10.68	10.76	10.68	
15	16QAM	75	0	10.60	10.54	10.64	10.89	10.72	
15	64QAM	1	0	10.81	10.85	10.83	10.86	10.93	12
15	64QAM	1	37	10.82	10.83	10.75	10.76	10.79	
15	64QAM	1	74	10.78	10.73	10.65	10.81	10.71	
15	64QAM	36	0	10.58	10.64	10.67	10.80	10.77	11
15	64QAM	36	20	10.64	10.69	10.52	10.73	10.63	
15	64QAM	36	39	10.58	10.54	10.74	10.81	10.66	
15	64QAM	75	0	10.55	10.60	10.55	10.63	10.51	
15	256QAM	1	0	7.67	7.63	7.63	7.48	7.37	8
15	256QAM	1	37	7.40	7.36	7.54	7.55	7.73	
15	256QAM	1	74	7.64	7.56	7.45	7.37	7.39	
15	256QAM	36	0	6.42	6.35	6.70	6.54	6.49	8
15	256QAM	36	20	6.55	6.39	6.65	6.59	6.61	
15	256QAM	36	39	6.46	6.63	6.45	6.40	6.35	
15	256QAM	75	0	6.46	6.46	6.57	6.26	6.38	
Channel				55290	55815	55990	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3625	3642.5	3695	
10	QPSK	1	0	12.69	12.76	12.78	12.67	12.62	14
10	QPSK	1	25	12.73	12.64	12.79	12.69	12.45	
10	QPSK	1	49	12.64	12.74	12.76	12.61	12.60	
10	QPSK	25	0	11.86	11.83	11.95	11.84	11.65	13
10	QPSK	25	12	11.82	11.77	11.75	11.66	11.72	
10	QPSK	25	25	11.70	11.73	11.73	11.66	11.66	
10	QPSK	50	0	11.71	11.73	11.87	11.68	11.62	
10	16QAM	1	0	12.04	12.04	11.94	11.90	11.79	13
10	16QAM	1	25	11.84	11.88	11.86	11.90	11.78	
10	16QAM	1	49	11.94	11.76	11.89	11.92	11.76	
10	16QAM	25	0	10.65	10.67	10.77	10.76	10.72	12
10	16QAM	25	12	10.66	10.73	10.85	10.66	10.47	
10	16QAM	25	25	10.58	10.56	10.63	10.71	10.52	
10	16QAM	50	0	10.59	10.63	10.78	10.73	10.61	
10	64QAM	1	0	10.85	10.84	10.83	10.86	10.74	12
10	64QAM	1	25	10.74	10.75	10.92	10.64	10.58	
10	64QAM	1	49	10.63	10.76	10.82	10.74	10.56	
10	64QAM	25	0	10.75	10.65	10.81	10.58	10.65	11
10	64QAM	25	12	10.56	10.54	10.64	10.66	10.60	
10	64QAM	25	25	10.64	10.56	10.63	10.51	10.49	
10	64QAM	50	0	10.51	10.47	10.72	10.57	10.41	
10	256QAM	1	0	7.64	7.63	7.61	7.48	7.44	7
10	256QAM	1	25	7.38	7.41	7.59	7.69	7.63	
10	256QAM	1	49	7.62	7.60	7.35	7.31	7.37	
10	256QAM	25	0	6.49	6.53	6.74	6.45	6.58	7
10	256QAM	25	12	6.53	6.52	6.64	6.71	6.63	
10	256QAM	25	25	6.63	6.45	6.52	6.40	6.34	
10	256QAM	50	0	6.41	6.41	6.71	6.37	6.38	
Channel				55265	55810	55990	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	
5	QPSK	1	0	12.74	12.73	12.76	12.70	12.62	14
5	QPSK	1	12	12.65	12.71	12.70	12.61	12.53	
5	QPSK	1	24	12.63	12.63	12.64	12.62	12.53	
5	QPSK	12	0	11.93	11.94	11.84	11.79	11.80	13
5	QPSK	12	7	11.84	11.66	11.93	11.71	11.53	
5	QPSK	12	13	11.65	11.81	11.83	11.69	11.50	
5	QPSK	25	0	11.73	11.70	11.70	11.70	11.50	
5	16QAM	1	0	11.96	12.03	11.95	11.84	11.87	13
5	16QAM	1	12	11.88	12.00	11.91	11.77	11.69	
5	16QAM	1	24	11.92	11.82	11.94	11.89	11.64	
5	16QAM	12	0	10.75	10.63	10.79	10.73	10.70	12
5	16QAM	12	7	10.70	10.65	10.72	10.60	10.55	
5	16QAM	12	13	10.56	10.67	10.80	10.61	10.51	
5	16QAM	25	0	10.71	10.56	10.70	10.70	10.57	
5	64QAM	1	0	10.90	10.77	10.85	10.78	10.72	

5	64QAM	1	12	10.76	10.74	10.80	10.72	10.57	12
5	64QAM	1	24	10.71	10.67	10.78	10.74	10.64	
5	64QAM	12	0	10.67	10.73	10.73	10.59	10.50	11
5	64QAM	12	7	10.52	10.53	10.55	10.60	10.67	
5	64QAM	12	13	10.74	10.73	10.60	10.70	10.57	
5	64QAM	25	0	10.66	10.53	10.55	10.53	10.48	
5	256QAM	1	0	7.70	7.67	7.63	7.42	7.51	18
5	256QAM	1	12	7.47	7.40	7.54	7.58	7.70	
5	256QAM	1	24	7.58	7.61	7.51	7.45	7.31	
5	256QAM	12	0	6.52	6.52	6.65	6.49	6.61	8
5	256QAM	12	7	6.48	6.51	6.66	6.67	6.72	
5	256QAM	12	13	6.44	6.52	6.44	6.40	6.40	
5	256QAM	25	0	6.41	6.38	6.67	6.39	6.43	

n2-ANT 0 & ANT 1

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channe	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	18.01	17.85	17.56	19.00
20		1	53	18.00	17.70	17.62	
20		1	104	17.91	17.61	17.55	
20		50	1	17.56	17.38	17.20	18.00
20		50	25	18.06	17.82	17.68	
20		50	50	17.52	17.25	17.12	
20		100	0	17.58	17.32	17.17	
20	DFT-s-OFDM QPSK	1	1	17.97	18.29	17.59	19.00
20		1	53	17.90	17.74	17.67	
20		1	104	17.78	17.52	17.52	
20		50	1	16.73	16.97	16.66	18.00
20		50	25	16.91	16.73	16.62	
20		50	50	16.94	16.68	16.60	
20		100	0	16.98	16.75	16.64	
20	DFT-s-OFDM 16QAM	1	1	16.83	16.73	16.54	17.50
20	DFT-s-OFDM 64QAM	1	1	15.49	15.34	15.10	16.00
20	DFT-s-OFDM 256QAM	1	1	13.38	13.25	12.98	14.00
20	CP-OFDM QPSK	1	1	16.57	16.40	16.17	17.00
20	CP-OFDM 16QAM	1	1	16.05	15.90	15.65	16.50
20	CP-OFDM 64QAM	1	1	14.28	14.13	13.93	15.00
20	CP-OFDM 256QAM	1	1	11.28	11.12	10.89	12.00
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	17.91	17.76	17.55	19.00
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	17.85	17.76	17.43	18.50
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	

n5-ANT 4

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	18.12	18.09	18.07	19.00
20		1	53	18.09	18.06	18.05	
20		1	104	17.95	17.92	17.90	
20		50	1	17.93	17.92	17.92	19.00
20		50	25	18.14	18.17	18.16	
20		50	50	17.83	17.79	17.79	
20		100	0	17.88	17.90	17.89	
20	DFT-s-OFDM QPSK	1	1	18.28	18.33	18.30	19.00
20		1	53	17.99	18.02	18.05	
20		1	104	17.88	17.86	17.95	
20		50	1	17.31	17.34	17.30	18.00
20		50	25	17.05	17.04	17.01	
20		50	50	17.32	17.32	17.30	
20		100	0	17.38	17.41	17.36	
20	DFT-s-OFDM 16QAM	1	1	17.59	17.55	17.54	18.00
20	DFT-s-OFDM 64QAM	1	1	15.98	15.96	15.99	16.50
20	DFT-s-OFDM 256QAM	1	1	13.81	13.79	13.83	14.50
20	CP-OFDM QPSK	1	1	16.91	16.93	17.05	17.50
20	CP-OFDM 16QAM	1	1	16.43	16.38	16.48	17.00
20	CP-OFDM 64QAM	1	1	14.55	14.52	14.63	15.50
20	CP-OFDM 256QAM	1	1	11.63	11.63	11.70	12.50
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	18.00	18.04	18.01	19.00
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	17.81	17.92	17.82	18.50
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	17.85	17.85	17.87	18.50

n7-ANT 0

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				502000	507000	512000	
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM PI/2 BPSK	1	1	16.98	16.71	17.07	18.50
20		1	53	16.97	16.88	17.18	
20		1	104	16.80	17.12	17.47	
20		50	1	16.50	16.52	16.83	18.50
20		50	25	17.08	17.06	17.45	
20		50	50	16.45	16.55	17.05	
20		100	0	16.56	16.55	16.90	
20	DFT-s-OFDM QPSK	1	1	17.58	17.76	17.55	18.50
20		1	53	17.11	17.26	17.69	
20		1	104	17.21	17.33	17.74	
20		50	1	16.71	16.81	16.75	17.50
20		50	25	16.03	16.01	16.32	
20		50	50	16.00	16.09	16.59	
20		100	0	16.09	16.06	16.48	
20	DFT-s-OFDM 16QAM	1	1	15.90	15.62	16.05	17.00
20	DFT-s-OFDM 64QAM	1	1	14.45	14.36	14.60	15.50
20	DFT-s-OFDM 256QAM	1	1	12.29	12.20	12.46	13.00
20	CP-OFDM QPSK	1	1	15.53	15.45	15.65	16.50
20	CP-OFDM 16QAM	1	1	14.98	14.82	15.08	16.00
20	CP-OFDM 64QAM	1	1	13.40	13.47	13.51	14.50
20	CP-OFDM 256QAM	1	1	10.28	10.14	10.42	11.00
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	17.04	16.88	17.27	18.00
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	16.83	16.74	17.18	18.00
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	17.15	16.76	17.23	18.00

n12 (PC3)_ANT 4

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	20.32	20.36	20.36	21.00
15		1	39	20.36	20.39	20.36	
15		1	77	20.32	20.30	20.25	
15		36	1	19.93	19.93	19.92	21.00
15		36	18	20.45	20.42	20.40	
15		36	37	19.86	19.88	19.86	
15		75	0	19.92	19.97	19.97	
15	DFT-s-OFDM QPSK	1	1	20.36	20.48	20.33	21.00
15		1	39	20.40	20.37	20.40	
15		1	77	20.22	20.28	20.28	
15		36	1	19.41	19.44	19.40	20.00
15		36	18	19.41	19.43	19.41	
15		36	37	19.40	19.40	19.36	
15		75	0	19.43	19.43	19.45	
15	DFT-s-OFDM 16QAM	1	1	19.40	19.41	19.40	20.00
15	DFT-s-OFDM 64QAM	1	1	17.83	17.81	17.83	18.50
15	DFT-s-OFDM 256QAM	1	1	15.64	15.61	15.62	16.50
15	CP-OFDM QPSK	1	1	18.77	18.76	18.75	19.50
15	CP-OFDM 16QAM	1	1	18.32	18.31	18.30	19.00
15	CP-OFDM 64QAM	1	1	16.42	16.42	16.39	17.00
15	CP-OFDM 256QAM	1	1	13.37	13.37	13.33	14.00
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	20.28	20.30	20.23	21.00
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	DFT-s-OFDM QPSK	1	1	20.30	20.20	20.15	21.00

n13 (PC3)_ANT 4

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	DFT-s-OFDM PI/2 BPSK	1	1		21.33		22.00
10		1	26		21.21		
10		1	50		21.30		
10		25	1		20.83		21.50
10		25	12		21.28		
10		25	25		20.96		
10		50	0		20.92		
10	DFT-s-OFDM QPSK	1	1		21.47		22.00
10		1	26		21.25		
10		1	50		21.34		
10		25	1		20.37		21.50
10		25	12		20.34		
10		25	25		20.30		
10		50	0		20.33		
10	DFT-s-OFDM 16QAM	1	1		20.15		21.00
10	DFT-s-OFDM 64QAM	1	1		18.83		19.50
10	DFT-s-OFDM 256QAM	1	1		16.64		17.50
10	CP-OFDM QPSK	1	1		19.74		20.50
10	CP-OFDM 16QAM	1	1		19.21		20.00
10	CP-OFDM 64QAM	1	1		17.79		18.50
10	CP-OFDM 256QAM	1	1		14.45		15.00
Channel				155900	156400	156900	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	DFT-s-OFDM QPSK	1	1	21.25	21.36	21.20	22.00

n14 (PC3)_ANT 4

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channe	High Channel	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	DFT-s-OFDM PI/2 BPSK	1	1		21.40		22.00
10		1	26		21.21		
10		1	50		21.15		
10		25	1		20.80		22.00
10		25	12		21.35		
10		25	25		20.80		
10		50	0		20.86		
10	DFT-s-OFDM QPSK	1	1		21.43		22.00
10		1	26		21.23		
10		1	50		21.16		
10		25	1		20.33		21.00
10		25	12		20.27		
10		25	25		20.25		
10		50	0		20.28		
10	DFT-s-OFDM 16QAM	1	1		20.42		21.00
10	DFT-s-OFDM 64QAM	1	1		18.86		19.50
10	DFT-s-OFDM 256QAM	1	1		16.50		17.50
10	CP-OFDM QPSK	1	1		19.81		20.50
10	CP-OFDM 16QAM	1	1		19.32		20.00
10	CP-OFDM 64QAM	1	1		17.45		18.00
10	CP-OFDM 256QAM	1	1		14.50		15.50
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	DFT-s-OFDM QPSK	1	1	21.40	21.33	21.26	22.00

n25_ANT 0

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channe	High Channel	Tune-up limit (dBm)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.93	19.79	19.55	21.00
20		1	53	19.92	19.70	19.54	
20		1	104	19.86	19.56	19.50	
20		50	1	19.48	19.27	19.08	21.00
20		50	25	20.04	19.79	19.61	
20		50	50	19.44	19.22	19.12	
20		100	0	19.51	19.27	19.10	
20	DFT-s-OFDM QPSK	1	1	20.05	20.16	20.15	21.00
20		1	53	19.93	19.54	19.54	
20		1	104	19.75	19.56	19.56	
20		50	1	18.93	18.94	18.84	20.00
20		50	25	18.91	18.71	18.76	
20		50	50	18.87	18.61	18.67	
20		100	0	18.94	18.73	18.66	
20	DFT-s-OFDM 16QAM	1	1	18.80	18.64	18.53	19.50
20	DFT-s-OFDM 64QAM	1	1	17.35	17.16	17.07	18.00
20	DFT-s-OFDM 256QAM	1	1	15.17	15.04	14.86	16.00
20	CP-OFDM QPSK	1	1	18.31	18.16	18.00	19.00
20	CP-OFDM 16QAM	1	1	17.79	17.62	17.45	18.50
20	CP-OFDM 64QAM	1	1	16.15	15.96	15.82	17.00
20	CP-OFDM 256QAM	1	1	13.18	12.97	12.87	14.00
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	20.01	19.69	19.50	21.00
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	19.70	19.57	19.27	20.50
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	19.65	19.61	19.27	20.50

n25_ANT 1

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channe	High Channel	Tune-up limit (dBm)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.93	17.79	17.55	19.00
20		1	53	17.92	17.70	17.54	
20		1	104	17.86	17.56	17.50	
20		50	1	17.48	17.27	17.08	19.00
20		50	25	18.04	17.79	17.61	
20		50	50	17.44	17.22	17.12	
20		100	0	17.51	17.27	17.10	
20	DFT-s-OFDM QPSK	1	1	18.05	18.16	18.09	19.00
20		1	53	18.03	17.64	17.54	
20		1	104	17.85	17.66	17.56	
20		50	1	17.03	17.04	16.84	18.00
20		50	25	17.01	16.81	16.76	
20		50	50	16.97	16.71	16.67	
20		100	0	17.04	16.83	16.66	
20	DFT-s-OFDM 16QAM	1	1	16.90	16.74	16.53	18.00
20	DFT-s-OFDM 64QAM	1	1	15.45	15.26	15.07	16.00
20	DFT-s-OFDM 256QAM	1	1	13.27	13.14	12.86	14.00
20	CP-OFDM QPSK	1	1	16.41	16.26	16.00	17.00
20	CP-OFDM 16QAM	1	1	15.89	15.72	15.45	16.50
20	CP-OFDM 64QAM	1	1	14.25	14.06	13.82	15.00
20	CP-OFDM 256QAM	1	1	11.28	11.07	10.87	12.00
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	18.11	17.79	17.50	19.00
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	17.70	17.57	17.27	19.00
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	17.75	17.71	17.27	19.00

N26(814-824MHz) (PC3)_ANT 4

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					163800		
Frequency (MHz)					819		
10	DFT-s-OFDM PI/2 BPSK	1	1		20.15		21.00
10		1	26		20.13		
10		1	50		20.03		
10		25	1		19.93		21.00
10		25	12		20.16		
10		25	25		19.88		
10		50	0		19.93		
10	DFT-s-OFDM QPSK	1	1		20.32		21.00
10		1	26		20.11		
10		1	50		20.07		
10		25	1		20.25		21.00
10		25	12		20.11		
10		25	25		19.38		
10		50	0		19.41		
10	DFT-s-OFDM 16QAM	1	1		19.44		20.00
10	DFT-s-OFDM 64QAM	1	1		17.86		18.50
10	DFT-s-OFDM 256QAM	1	1		15.64		16.50
10	CP-OFDM QPSK	1	1		18.80		19.50
10	CP-OFDM 16QAM	1	1		18.33		19.00
10	CP-OFDM 64QAM	1	1		16.46		17.00
10	CP-OFDM 256QAM	1	1		13.65		14.50
Channel				163300	163800	164300	Tune-up limit (dBm)
Frequency (MHz)				816.5	819	821.5	
5	DFT-s-OFDM QPSK	1	1	20.11	20.10	20.08	21.00

n26(824-849MHz) (PC3)_ANT 4

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	20.04	20.02	20.00	21.00
20		1	53	20.05	20.01	20.00	
20		1	104	19.91	19.98	19.91	
20		50	1	19.84	19.88	19.87	21.00
20		50	25	20.08	20.06	20.03	
20		50	50	19.84	19.77	19.83	
20		100	0	19.84	19.86	19.83	
20	DFT-s-OFDM QPSK	1	1	20.25	20.35	20.28	21.00
20		1	53	20.07	20.01	20.01	
20		1	104	19.88	19.97	19.89	
20		50	1	19.41	19.45	19.37	20.00
20		50	25	19.08	19.10	19.00	
20		50	50	19.30	19.27	19.35	
20		100	0	19.36	19.36	19.33	
20	DFT-s-OFDM 16QAM	1	1	19.30	19.32	19.41	20.50
20	DFT-s-OFDM 64QAM	1	1	17.74	17.72	17.83	19.00
20	DFT-s-OFDM 256QAM	1	1	15.57	15.54	15.64	16.50
20	CP-OFDM QPSK	1	1	18.73	18.71	18.86	20.00
20	CP-OFDM 16QAM	1	1	18.24	18.24	18.31	19.50
20	CP-OFDM 64QAM	1	1	16.41	16.38	16.46	17.50
20	CP-OFDM 256QAM	1	1	13.59	13.58	13.64	14.50
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	20.14	20.18	20.11	21.00
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	19.95	19.98	19.98	21.00
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	19.96	19.96	19.89	21.00

n30 (PC3)_ANT 0

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channe	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		20.84		21.50
10		1	26		20.88		
10		1	50		20.74		
10		25	1		20.40		21.50
10		25	12		20.84		
10		25	25		20.30		
10		50	0		20.37		
10	DFT-s-OFDM QPSK	1	1		21.04		21.50
10		1	26		20.98		
10		1	50		20.90		
10		25	1		20.85		21.50
10		25	12		20.85		
10		25	25		19.82		
10		50	0		19.88		
10	DFT-s-OFDM 16QAM	1	1		20.01		21.00
10	DFT-s-OFDM 64QAM	1	1		18.62		19.50
10	DFT-s-OFDM 256QAM	1	1		16.08		17.00
10	CP-OFDM QPSK	1	1		19.51		20.50
10	CP-OFDM 16QAM	1	1		18.99		19.50
10	CP-OFDM 64QAM	1	1		17.58		18.50
10	CP-OFDM 256QAM	1	1		14.32		15.00
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	20.69	20.95	19.94	21.50

n38_ANT 0

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channe	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	17.97	18.05	18.28	19.50
40		1	53	18.30	18.38	18.61	
40		1	104	18.70	18.79	18.83	
40		50	1	17.76	17.78	17.94	19.50
40		50	25	18.36	18.45	18.65	
40		50	50	18.05	18.07	18.22	
40		100	0	17.89	17.95	18.07	
40	DFT-s-OFDM QPSK	1	1	18.69	18.97	18.93	19.50
40		1	53	18.27	18.37	18.63	
40		1	104	18.65	18.76	18.89	
40		50	1	18.33	18.51	18.43	19.00
40		50	25	18.33	18.51	18.43	
40		50	50	17.43	17.42	17.63	
40		100	0	17.27	17.25	17.45	
40	DFT-s-OFDM 16QAM	1	1	16.90	16.90	17.19	18.00
40	DFT-s-OFDM 64QAM	1	1	15.46	15.47	15.70	16.50
40	DFT-s-OFDM 256QAM	1	1	13.51	13.33	13.54	14.50
40	CP-OFDM QPSK	1	1	16.49	16.36	16.67	17.50
40	CP-OFDM 16QAM	1	1	16.03	15.94	16.20	17.00
40	CP-OFDM 64QAM	1	1	14.56	14.57	14.84	15.50
40	CP-OFDM 256QAM	1	1	11.56	11.36	11.64	12.50
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	17.61	17.96	18.31	19.00
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	17.82	17.95	18.27	19.00

n41(PC2)_ANT 0

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	20.31	19.83	19.05	19.54	19.78	21.50
100		1	136	20.02	19.48	19.84	19.82	19.77	
100		1	271	20.51	19.92	19.77	19.76	19.47	
100		135	1	19.72	19.26	19.30	19.26	19.40	20.50
100		135	67	20.15	19.69	19.91	19.84	19.83	
100		135	136	19.72	19.40	19.41	19.31	19.19	
100		270	0	19.71	19.34	19.34	19.27	19.30	
100	DFT-s-OFDM QPSK	1	1	20.56	20.55	20.63	20.52	20.48	21.50
100		1	136	20.15	19.26	19.80	19.75	19.81	
100		1	271	20.52	19.99	19.58	19.77	19.45	
100		135	1	19.80	19.88	19.91	19.82	19.87	20.50
100		135	67	19.80	19.88	19.91	19.82	19.87	
100		135	136	19.25	18.90	18.89	18.80	18.66	
100		270	0	19.19	18.82	18.81	18.76	18.79	
100	DFT-s-OFDM 16QAM	1	1	19.36	18.78	18.46	18.59	18.87	19.50
100	DFT-s-OFDM 64QAM	1	1	17.90	17.27	17.28	17.00	17.30	18.00
100	DFT-s-OFDM 256QAM	1	1	15.77	15.14	15.07	15.12	15.11	16.00
100	CP-OFDM QPSK	1	1	18.75	18.33	18.11	18.26	18.30	19.00
100	CP-OFDM 16QAM	1	1	18.23	17.72	17.48	17.50	17.62	18.50
100	CP-OFDM 64QAM	1	1	17.05	16.43	16.36	16.26	16.39	17.50
100	CP-OFDM 256QAM	1	1	13.72	13.29	13.13	13.17	13.14	14.00
Channel				508200	513402	518598	523800	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	20.23	19.81	19.00	19.69	19.97	21.00
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	20.30	19.66	19.04	19.78	19.98	21.00
Channel				506202	512400	518598	524796	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	20.35	19.72	19.22	19.85	19.77	21.00
Channel				505200	511902	518598	525798	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	20.51	20.28	19.47	19.98	20.15	21.50
Channel				504204	511404	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	20.64	20.29	19.90	19.92	20.20	21.50
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	20.74	20.71	20.10	20.36	20.24	21.50
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	20.77	20.55	20.09	20.35	20.22	21.50
Channel				501204	509904	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	20.76	20.56	20.19	20.01	20.00	21.50

n41(PC3)_ANT 0

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.98	20.30	20.19	20.09	20.20	21.50
100		1	136	19.55	20.16	20.26	20.23	20.21	
100		1	271	20.10	20.44	20.19	20.16	19.89	
100		135	1	19.75	20.31	20.24	20.26	20.39	21.50
100		135	67	19.65	20.27	20.34	20.32	20.34	
100		135	136	19.70	20.30	20.34	20.23	20.11	
100		270	0	19.73	20.27	20.29	20.24	20.22	
100	DFT-s-OFDM QPSK	1	1	20.35	20.34	20.55	20.46	20.42	21.50
100		1	136	19.53	20.12	20.30	20.11	20.13	
100		1	271	20.04	20.36	20.20	20.06	19.93	
100		135	1	20.30	20.27	20.38	20.24	20.23	21.50
100		135	67	19.59	20.25	20.34	20.29	20.31	
100		135	136	19.72	20.28	20.33	20.25	20.07	
100		270	0	19.74	20.29	20.25	20.25	20.24	
100	DFT-s-OFDM 16QAM	1	1	20.02	20.33	20.25	20.14	20.29	21.00
100	DFT-s-OFDM 64QAM	1	1	19.99	19.71	19.64	19.54	19.76	20.50
100	DFT-s-OFDM 256QAM	1	1	18.33	17.74	17.59	17.45	17.58	19.00
100	CP-OFDM QPSK	1	1	19.88	20.28	20.23	20.09	20.23	21.00
100	CP-OFDM 16QAM	1	1	19.92	20.35	20.08	19.98	20.10	21.00
100	CP-OFDM 64QAM	1	1	19.56	18.72	18.99	18.73	18.88	20.50
100	CP-OFDM 256QAM	1	1	16.44	15.85	15.64	15.58	15.68	17.00
Channel				508200	513402	518598	523800	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	19.80	20.09	20.04	20.11	20.29	21.00
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	19.87	20.25	20.09	20.11	20.25	21.00
Channel				506202	512400	518598	524796	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	20.00	20.29	20.13	20.31	20.24	21.00
Channel				505200	511902	518598	525798	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	19.99	19.86	20.32	20.42	20.48	21.00
Channel				504204	511404	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	20.21	19.80	20.42	20.45	20.61	21.50
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	20.24	20.11	20.53	20.77	20.54	21.50
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	20.23	19.99	20.50	20.69	20.61	21.50
Channel				501204	509904	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	20.06	19.94	20.48	20.58	20.43	21.50

n48 _ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	9.57	9.75	10.03	9.99	9.79	11.00
40		1	53	9.68	10.08	9.86	9.79	9.58	
40		1	104	9.99	10.05	10.01	9.73	9.58	
40		50	1	9.18	9.41	9.46	9.46	9.13	10.00
40		50	25	9.14	9.00	9.19	9.16	9.19	
40		50	50	9.17	9.14	9.39	9.23	9.04	
40		100	0	9.23	9.15	9.16	9.13	9.09	
40	DFT-s-OFDM QPSK	1	1	10.40	10.37	10.42	10.28	10.30	11.00
40		1	53	9.63	10.02	9.83	9.76	9.54	
40		1	104	9.93	9.90	9.97	9.63	9.57	
40		50	1	8.88	8.84	9.02	8.88	8.86	10.00
40		50	25	8.78	8.77	8.74	8.72	8.75	
40		50	50	8.64	8.88	8.81	8.64	8.57	
40		100	0	8.74	9.06	8.91	8.97	8.71	
40	DFT-s-OFDM 16QAM	1	1	8.51	8.68	8.99	8.91	8.84	10.00
40	DFT-s-OFDM 64QAM	1	1	7.19	7.37	7.54	7.57	7.41	8.50
40	DFT-s-OFDM 256QAM	1	1	4.99	5.14	5.39	5.39	5.25	6.00
40	CP-OFDM QPSK	1	1	8.19	8.39	8.60	8.60	8.37	9.50
40	CP-OFDM 16QAM	1	1	7.70	7.92	8.10	8.07	7.90	9.00
40	CP-OFDM 64QAM	1	1	5.71	5.95	6.18	6.17	5.96	7.00
40	CP-OFDM 256QAM	1	1	3.86	4.03	4.31	4.35	4.18	4.50
Channel				637668	639668	641666	643666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	9.93	9.77	9.89	10.01	9.64	10.50
Channel				637334	639500	641666	643832	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	9.61	10.05	9.89	9.82	9.58	10.50
Channel				637000	639334	641666	644000	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	9.44	9.69	9.70	9.52	8.61	10.50

n66_ANT 0 & ANT 1

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channe	High Channel	Tune-up limit (dBm)
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	18.74	18.77	18.77	20.00
30		1	80	18.66	18.76	18.82	
30		1	158	18.72	18.74	18.76	
30		80	1	18.33	18.31	18.35	20.00
30		80	40	18.78	18.91	18.83	
30		80	80	18.32	18.50	18.40	
30		160	0	18.26	18.41	18.40	
30	DFT-s-OFDM QPSK	1	1	19.31	19.35	19.23	20.00
30		1	80	18.83	18.92	18.76	
30		1	158	18.95	19.07	18.84	
30		80	1	18.76	19.02	18.89	20.00
30		80	40	17.80	17.87	17.81	
30		80	80	17.87	17.94	17.86	
30		160	0	17.79	17.86	17.86	
30	DFT-s-OFDM 16QAM	1	1	17.94	17.90	17.96	18.50
30	DFT-s-OFDM 64QAM	1	1	16.39	16.33	16.51	17.50
30	DFT-s-OFDM 256QAM	1	1	13.88	12.44	12.61	14.50
30	CP-OFDM QPSK	1	1	17.23	17.23	17.46	18.00
30	CP-OFDM 16QAM	1	1	16.83	16.83	16.86	17.50
30	CP-OFDM 64QAM	1	1	15.35	15.37	15.49	16.00
30	CP-OFDM 256QAM	1	1	12.00	12.34	12.37	13.00
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	18.95	18.88	18.69	19.50
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	18.89	18.80	18.68	19.50
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	18.85	18.90	18.68	19.50
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	19.06	18.63	18.83	20.00

n71_ANT 4

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.65	22.77	19.35	23.50
20		1	53	22.69	22.74	22.62	
20		1	104	22.73	22.70	22.66	
20		50	1	22.25	22.18	22.25	23.50
20		50	25	22.74	22.81	22.67	
20		50	50	22.32	22.15	22.24	
20		100	0	22.25	22.26	22.16	
20	DFT-s-OFDM QPSK	1	1	22.87	22.88	22.83	23.50
20		1	53	22.77	22.73	22.69	
20		1	104	22.70	22.63	22.68	
20		50	1	22.82	22.85	22.68	23.50
20		50	25	21.67	21.76	21.71	
20		50	50	21.78	21.74	21.67	
20		100	0	21.73	21.77	21.75	
20	DFT-s-OFDM 16QAM	1	1	21.74	21.80	21.80	22.50
20	DFT-s-OFDM 64QAM	1	1	20.36	20.56	20.53	21.50
20	DFT-s-OFDM 256QAM	1	1	17.12	17.20	17.36	18.00
20	CP-OFDM QPSK	1	1	21.20	21.28	21.30	22.00
20	CP-OFDM 16QAM	1	1	20.72	20.69	20.79	21.50
20	CP-OFDM 64QAM	1	1	19.23	19.36	19.36	20.00
20	CP-OFDM 256QAM	1	1	15.32	15.46	15.49	16.00
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	22.70	22.78	22.76	23.50
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	22.68	22.65	22.68	23.50
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	22.71	22.50	22.67	23.50

n77(3450-3550MHz)(PC2)_ANT 2 & ANT 3

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.52			13.00
100		1	136			11.95			
100		1	271			12.27			
100		135	1			11.28			13.00
100		135	67			11.92			
100		135	136			11.65			
100		270	0			11.47			
100	DFT-s-OFDM QPSK	1	1			12.41			13.00
100		1	136			11.90			
100		1	271			12.25			
100		135	1			11.99			13.00
100		135	67			11.97			
100		135	136			11.17			
100		270	0			10.91			
100	DFT-s-OFDM 16QAM	1	1			10.61			12.00
100	DFT-s-OFDM 64QAM	1	1			8.96			11.50
100	DFT-s-OFDM 256QAM	1	1			6.87			7.50
100	CP-OFDM QPSK	1	1			9.93			11.00
100	CP-OFDM 16QAM	1	1			9.51			10.50
100	CP-OFDM 64QAM	1	1			8.09			9.00
100	CP-OFDM 256QAM	1	1			4.94			6.00
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	11.49	11.47	11.56	11.64	11.70	27.00
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	11.65	11.76	11.78	11.91	12.07	27.50
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.02	11.91	12.16	12.25	12.09	28.00
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.83	12.12	12.08	12.09	12.21	28.00
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	11.82	12.00	12.06	12.27	12.28	27.50

n77(3450-3550MHz)(PC3)_ANT 2 & ANT 3

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.01			13.00
100		1	136			11.44			
100		1	271			11.90			
100		135	1			11.27			13.00
100		135	67			11.46			
100		135	136			11.85			
100		270	0			11.63			
100	DFT-s-OFDM QPSK	1	1			12.29			13.00
100		1	136			11.56			
100		1	271			12.01			
100		135	1			11.44			12.50
100		135	67			11.60			
100		135	136			11.81			
100		270	0			11.58			
100	DFT-s-OFDM 16QAM	1	1			11.30			12.00
100	DFT-s-OFDM 64QAM	1	1			11.00			12.00
100	DFT-s-OFDM 256QAM	1	1			9.34			10.00
100	CP-OFDM QPSK	1	1			10.96			11.50
100	CP-OFDM 16QAM	1	1			11.01			12.00
100	CP-OFDM 64QAM	1	1			10.52			11.50
100	CP-OFDM 256QAM	1	1			7.40			8.00
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	10.89	10.82	11.00	11.15	11.24	12.00
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	11.56	11.30	11.40	11.39	11.58	12.50
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.43	11.54	11.74	12.01	12.07	13.00
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.38	11.63	11.84	11.86	12.24	13.00
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	11.29	11.42	11.69	11.85	11.98	12.50

n77(3700-3980MHz)(PC2)_ANT 2 & ANT 3

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	10.46	10.14	10.45	10.45	10.59	12.00
100		1	136	10.68	10.55	10.62	10.53	10.78	
100		1	271	10.58	10.75	10.55	10.93	10.77	
100		135	1	10.13	9.90	10.15	10.12	10.33	11.50
100		135	67	10.76	10.66	10.64	10.65	10.88	
100		135	136	10.17	10.19	10.14	10.27	10.39	
100		270	0	10.18	10.09	10.20	10.18	10.33	
100	DFT-s-OFDM QPSK	1	1	11.16	11.20	11.26	11.24	11.17	12.00
100		1	136	10.68	10.59	10.63	10.55	10.93	
100		1	271	10.58	10.77	10.69	11.05	10.79	
100		135	1	10.73	10.59	10.89	10.64	10.80	11.50
100		135	67	10.73	10.59	10.65	10.64	10.89	
100		135	136	9.65	9.69	9.66	9.73	9.85	
100		270	0	9.67	9.59	9.67	9.67	9.84	
100	DFT-s-OFDM 16QAM	1	1	9.35	9.03	9.36	9.38	9.50	10.50
100	DFT-s-OFDM 64QAM	1	1	7.79	7.44	7.80	7.71	7.72	8.50
100	DFT-s-OFDM 256QAM	1	1	5.83	5.53	5.85	5.91	5.92	6.50
100	CP-OFDM QPSK	1	1	8.91	8.61	9.01	8.97	9.08	10.00
100	CP-OFDM 16QAM	1	1	8.46	8.15	8.51	8.56	8.55	9.50
100	CP-OFDM 64QAM	1	1	6.87	6.54	6.95	6.97	7.11	8.00
100	CP-OFDM 256QAM	1	1	3.92	3.62	3.92	3.96	4.04	5.00
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	10.39	10.21	10.46	10.49	10.71	11.50
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	10.59	10.28	10.67	10.72	10.82	11.50
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	11.12	10.99	11.05	10.97	10.92	12.00
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	10.85	10.77	10.98	11.08	11.19	12.00
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	10.83	10.83	10.97	11.04	11.13	12.00

n77(3700-3980MHz)(PC3)_ANT 2 & ANT 3

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channe	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	10.56	10.18	10.50	10.50	10.57	12.00
100		1	136	10.72	10.61	10.72	10.63	10.87	
100		1	271	10.53	10.81	10.61	11.01	10.86	
100		135	1	10.69	10.44	10.64	10.61	10.80	12.00
100		135	67	10.76	10.55	10.63	10.62	10.87	
100		135	136	10.65	10.64	10.68	10.73	10.95	
100		270	0	10.67	10.53	10.69	10.68	10.85	
100	DFT-s-OFDM QPSK	1	1	11.30	11.34	11.42	11.31	11.35	12.00
100		1	136	10.73	10.64	10.69	10.63	10.87	
100		1	271	10.54	10.81	10.65	11.01	10.84	
100		135	1	10.62	10.41	10.86	10.57	10.77	11.50
100		135	67	10.72	10.55	10.64	10.63	10.88	
100		135	136	10.65	10.61	10.64	10.73	10.90	
100		270	0	10.66	10.51	10.68	10.66	10.79	
100	DFT-s-OFDM 16QAM	1	1	10.62	10.23	10.66	10.60	10.63	11.50
100	DFT-s-OFDM 64QAM	1	1	10.60	10.21	10.52	10.52	10.60	11.50
100	DFT-s-OFDM 256QAM	1	1	8.92	8.51	8.86	8.85	8.95	9.50
100	CP-OFDM QPSK	1	1	10.50	10.16	10.52	10.49	10.59	11.00
100	CP-OFDM 16QAM	1	1	10.54	10.22	10.52	10.46	10.55	11.00
100	CP-OFDM 64QAM	1	1	10.18	9.79	10.11	10.06	10.11	11.00
100	CP-OFDM 256QAM	1	1	7.02	6.65	6.94	6.95	7.01	8.00
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	10.58	10.39	10.53	10.58	10.77	24.50
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	10.69	10.47	10.68	10.87	11.01	25.00
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	11.19	11.04	11.08	11.13	11.06	25.00
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	10.91	10.79	11.02	11.09	11.15	25.00
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	10.88	10.77	10.93	11.04	11.10	25.00

n78(3450-3550MHz)(PC2)_ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			9.02			11.00
100		1	136			9.57			
100		1	271			9.80			
100		135	1			8.87			10.50
100		135	67			9.66			
100		135	136			9.20			
100		270	0			9.07			
100	DFT-s-OFDM QPSK	1	1			10.26			11.00
100		1	136			9.58			
100		1	271			9.83			
100		135	1			9.86			10.50
100		135	67			9.62			
100		135	136			8.72			
100		270	0			8.55			
100	DFT-s-OFDM 16QAM	1	1			8.06			9.00
100	DFT-s-OFDM 64QAM	1	1			6.55			7.50
100	DFT-s-OFDM 256QAM	1	1			7.20			7.50
100	CP-OFDM QPSK	1	1			7.60			8.50
100	CP-OFDM 16QAM	1	1			7.03			8.00
100	CP-OFDM 64QAM	1	1			7.00			7.50
100	CP-OFDM 256QAM	1	1			7.20			7.50
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	9.02	9.06	9.15	9.14	9.14	10.00
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	9.06	9.06	9.17	9.30	9.26	10.00
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	9.11	9.25	9.29	9.39	9.54	10.50
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	9.26	9.31	9.49	9.62	9.64	10.50
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	8.00	9.30	9.46	9.67	9.64	10.50
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	9.66	9.69	9.87	9.99	10.15	11.00
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	9.52	9.77	9.85	10.02	10.19	11.00
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	9.56	9.66	9.80	10.00	10.05	11.00

n78(3450-3550MHz)(PC2)_ANT 3

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			12.02			14.00
100		1	136			12.57			
100		1	271			12.80			
100		135	1			11.87			13.50
100		135	67			12.66			
100		135	136			12.25			
100		270	0			12.12			
100	DFT-s-OFDM QPSK	1	1			13.31			14.00
100		1	136			12.63			
100		1	271			12.88			
100		135	1			12.71			13.50
100		135	67			12.67			
100		135	136			11.77			
100		270	0			11.60			
100	DFT-s-OFDM 16QAM	1	1			11.11			12.00
100	DFT-s-OFDM 64QAM	1	1			9.60			10.50
100	DFT-s-OFDM 256QAM	1	1			10.15			10.50
100	CP-OFDM QPSK	1	1			10.50			11.50
100	CP-OFDM 16QAM	1	1			9.93			11.00
100	CP-OFDM 64QAM	1	1			9.95			10.50
100	CP-OFDM 256QAM	1	1			10.20			10.50
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	12.02	12.06	12.15	12.14	12.14	13.00
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	12.06	12.06	12.17	12.30	12.26	13.00
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	12.11	12.25	12.29	12.39	12.54	13.50
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	12.26	12.31	12.49	12.62	12.64	13.50
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	11.00	12.30	12.46	12.67	12.64	13.50
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.66	12.69	12.87	12.99	13.15	14.00
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	12.52	12.77	12.85	13.02	13.19	14.00
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	12.56	12.66	12.80	13.00	13.05	14.00

n78(3450-3550MHz)(PC2)_ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			9.04			11.00
100		1	136			9.62			
100		1	271			9.85			
100		135	1			9.33			10.00
100		135	67			9.58			
100		135	136			9.65			
100		270	0			9.55			
100	DFT-s-OFDM QPSK	1	1			10.02			11.00
100		1	136			9.52			
100		1	271			9.78			
100		135	1			9.86			10.00
100		135	67			9.61			
100		135	136			9.70			
100		270	0			9.59			
100	DFT-s-OFDM 16QAM	1	1			9.06			10.00
100	DFT-s-OFDM 64QAM	1	1			9.04			10.00
100	DFT-s-OFDM 256QAM	1	1			7.44			8.00
100	CP-OFDM QPSK	1	1			8.99			9.50
100	CP-OFDM 16QAM	1	1			9.06			10.00
100	CP-OFDM 64QAM	1	1			8.65			9.50
100	CP-OFDM 256QAM	1	1			5.48			6.00
Channel				633000	633167	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.51	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	9.07	9.02	9.05	9.10	9.19	10.00
Channel				632668	633001	633334	633667	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495.01	3500.01	3505.01	3510	
80	DFT-s-OFDM QPSK	1	1	9.13	8.91	9.16	9.27	9.38	10.00
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	9.09	9.21	9.17	9.37	9.53	10.50
Channel				632000	632667	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.01	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	9.25	9.27	9.43	9.59	9.66	10.50
Channel				631668	632501	633334	634167	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.51	3500.01	3512.51	3525	
50	DFT-s-OFDM QPSK	1	1	9.09	9.19	9.49	9.62	9.66	10.50
Channel				631334	636672	633334	634333	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.99	3529.98	
40	DFT-s-OFDM QPSK	1	1	9.53	9.59	9.83	9.92	10.09	11.00
Channel				631000	632167	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.51	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	9.33	9.68	9.93	9.90	10.16	11.00
Channel				630668	632001	633334	634667	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480.01	3500.01	3520.01	3540	
20	DFT-s-OFDM QPSK	1	1	9.51	9.64	9.82	9.93	10.10	11.00

n78(3450-3550MHz)(PC2)_ ANT 3

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			12.04			14.00
100		1	136			12.62			
100		1	271			12.85			
100		135	1			12.33			13.00
100		135	67			12.58			
100		135	136			12.70			
100		270	0			12.60			
100	DFT-s-OFDM QPSK	1	1			13.31			14.00
100		1	136			12.57			
100		1	271			12.83			
100		135	1			12.71			13.00
100		135	67			12.66			
100		135	136			12.75			
100		270	0			12.64			
100	DFT-s-OFDM 16QAM	1	1			12.06			13.00
100	DFT-s-OFDM 64QAM	1	1			12.04			13.00
100	DFT-s-OFDM 256QAM	1	1			10.39			11.00
100	CP-OFDM QPSK	1	1			11.89			12.50
100	CP-OFDM 16QAM	1	1			11.96			13.00
100	CP-OFDM 64QAM	1	1			11.60			12.50
100	CP-OFDM 256QAM	1	1			8.48			9.00
Channel				633000	633167	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.51	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	12.07	12.02	12.05	12.10	12.19	13.00
Channel				632668	633001	633334	633667	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495.01	3500.01	3505.01	3510	
80	DFT-s-OFDM QPSK	1	1	12.13	11.91	12.16	12.27	12.38	13.00
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	12.09	12.21	12.17	12.37	12.53	13.50
Channel				632000	632667	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.01	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	12.25	12.27	12.43	12.59	12.66	13.50
Channel				631668	632501	633334	634167	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.51	3500.01	3512.51	3525	
50	DFT-s-OFDM QPSK	1	1	12.09	12.19	12.49	12.62	12.65	13.50
Channel				631334	636672	633334	634333	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.99	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.53	12.59	12.83	12.92	13.09	14.00
Channel				631000	632167	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.51	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	12.33	12.68	12.93	12.90	13.16	14.00
Channel				630668	632001	633334	634667	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480.01	3500.01	3520.01	3540	
20	DFT-s-OFDM QPSK	1	1	12.51	12.64	12.82	12.93	13.10	14.00

n78(3700-3800MHz)(PC2)_ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			8.96			10.50
100		1	136			9.18			
100		1	271			9.06			
100		135	1			8.64			10.00
100		135	67			9.30			
100		135	136			8.88			
100		270	0			8.88			
100	DFT-s-OFDM QPSK	1	1			10.02			10.50
100		1	136			9.41			
100		1	271			9.27			
100		135	1			9.10			10.00
100		135	67			9.21			
100		135	136			8.18			
100		270	0			8.17			
100	DFT-s-OFDM 16QAM	1	1			7.77			8.50
100	DFT-s-OFDM 64QAM	1	1			6.15			7.00
100	DFT-s-OFDM 256QAM	1	1			7.65			8.00
100	CP-OFDM QPSK	1	1			7.52			8.50
100	CP-OFDM 16QAM	1	1			6.90			7.50
100	CP-OFDM 64QAM	1	1			7.54			8.00
100	CP-OFDM 256QAM	1	1			7.30			7.50
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	8.87	8.82	8.94	8.96	9.08	10.00
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	8.88	9.07	8.96	8.87	9.06	10.00
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	8.94	9.00	9.10	9.02	8.99	10.00
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	9.02	9.03	9.10	9.11	9.27	10.00
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	9.03	9.03	9.13	9.30	9.41	10.00
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	9.51	9.46	9.63	9.61	9.86	10.50
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	9.30	9.49	9.51	9.63	9.75	10.50
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	9.32	9.47	9.49	9.62	9.60	10.50

n78(3700-3800MHz)(PC2)_ANT 3

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			9.96			11.50
100		1	136			10.18			
100		1	271			10.06			
100		135	1			9.64			11.00
100		135	67			10.35			
100		135	136			9.93			
100		270	0			9.93			
100	DFT-s-OFDM QPSK	1	1			11.15			11.50
100		1	136			10.46			
100		1	271			10.32			
100		135	1			10.15			11.00
100		135	67			10.26			
100		135	136			9.13			
100		270	0			9.12			
100	DFT-s-OFDM 16QAM	1	1			8.72			9.50
100	DFT-s-OFDM 64QAM	1	1			7.15			8.00
100	DFT-s-OFDM 256QAM	1	1			8.70			9.00
100	CP-OFDM QPSK	1	1			8.57			9.50
100	CP-OFDM 16QAM	1	1			7.95			8.50
100	CP-OFDM 64QAM	1	1			8.54			9.00
100	CP-OFDM 256QAM	1	1			8.30			8.50
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	9.87	9.82	9.94	9.96	10.08	11.00
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	9.88	10.07	9.96	9.87	10.06	11.00
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	9.94	10.00	10.10	10.02	9.99	11.00
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	10.02	10.03	10.10	10.11	10.27	11.00
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	10.03	10.03	10.13	10.30	10.41	11.00
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	10.51	10.46	10.63	10.61	10.86	11.50
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	10.30	10.49	10.51	10.63	10.75	11.50
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	10.32	10.47	10.49	10.62	10.60	11.50

n78(3700-3800MHz)(PC3)_ANT 2

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			8.94			10.5
100		1	136			9.18			
100		1	271			9.05			
100		135	1			9.13			10
100		135	67			9.18			
100		135	136			9.27			
100		270	0			9.30			
100	DFT-s-OFDM QPSK	1	1			10.05			10.5
100		1	136			9.33			
100		1	271			9.12			
100		135	1			9.25			10
100		135	67			9.34			
100		135	136			9.24			
100		270	0			9.30			
100	DFT-s-OFDM 16QAM	1	1			9.05			10.00
100	DFT-s-OFDM 64QAM	1	1			8.95			9.50
100	DFT-s-OFDM 256QAM	1	1			7.26			8.00
100	CP-OFDM QPSK	1	1			8.91			9.50
100	CP-OFDM 16QAM	1	1			8.91			9.50
100	CP-OFDM 64QAM	1	1			8.48			9.00
100	CP-OFDM 256QAM	1	1			6.00			0.50
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	8.89	8.93	9.00	9.04	9.05	10.00
Channel				649334	649667	650000	650333	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3745.01	3750	3754.99	3759.99	
80	DFT-s-OFDM QPSK	1	1	8.95	9.03	8.94	8.82	9.09	10.00
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	8.87	9.10	8.92	9.01	9.04	10.00
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	9.10	9.02	9.13	9.08	9.25	10.00
Channel				648334	649167	650000	650833	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.51	3750	3762.49	3774.99	
50	DFT-s-OFDM QPSK	1	1	9.06	9.05	9.13	9.30	9.45	10.00
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	9.51	9.51	9.65	9.62	9.88	10.50
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	9.29	9.50	9.55	9.66	9.76	10.50
Channel				647334	648667	650000	651333	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3730.01	3750	3769.99	3789.99	
20	DFT-s-OFDM QPSK	1	1	9.30	9.38	9.34	9.59	9.59	10.50

n78(3700-3800MHz)(PC3)_ ANT 3

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			9.89			11.5
100		1	136			10.13			
100		1	271			10.05			
100		135	1			10.13			11
100		135	67			10.23			
100		135	136			10.32			
100		270	0			10.35			
100	DFT-s-OFDM QPSK	1	1			11.15			11.5
100		1	136			10.38			
100		1	271			10.17			
100		135	1			10.26			11
100		135	67			10.39			
100		135	136			10.29			
100		270	0			10.35			
100	DFT-s-OFDM 16QAM	1	1			10.10			11.00
100	DFT-s-OFDM 64QAM	1	1			10.00			10.50
100	DFT-s-OFDM 256QAM	1	1			8.31			9.00
100	CP-OFDM QPSK	1	1			9.96			10.50
100	CP-OFDM 16QAM	1	1			9.91			10.50
100	CP-OFDM 64QAM	1	1			9.43			10.00
100	CP-OFDM 256QAM	1	1			7.00			1.50
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	9.89	9.93	10.00	10.04	10.05	11.00
Channel				649334	649667	650000	650333	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3745.01	3750	3754.99	3759.99	
80	DFT-s-OFDM QPSK	1	1	9.95	10.03	9.94	9.82	10.09	11.00
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	9.87	10.10	9.92	10.01	10.04	11.00
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	10.10	10.02	10.13	10.08	10.25	11.00
Channel				648334	649167	650000	650833	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.51	3750	3762.49	3774.99	
50	DFT-s-OFDM QPSK	1	1	10.06	10.05	10.13	10.30	10.45	11.00
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	10.51	10.51	10.65	10.62	10.88	11.50
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	10.29	10.50	10.55	10.66	10.76	11.50
Channel				647334	648667	650000	651333	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3730.01	3750	3769.99	3789.99	
20	DFT-s-OFDM QPSK	1	1	10.30	10.38	10.34	10.59	10.59	11.50

CA_48C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	11.33	12.00
55990	55891	56089	QPSK	1	0	0	0	1	0	11.38	12.00
56640	56442	56640	QPSK	1	0	0	0	1	0	11.29	12.00
55340	55340	55538	16QAM	1	0	0	0	1	0	11.27	12.00
55990	55891	56089	16QAM	1	0	0	0	1	0	11.33	12.00
56640	56442	56640	16QAM	1	0	0	0	1	0	11.25	12.00
55340	55340	55538	64QAM	1	0	0	0	1	0	11.21	12.00
55990	55891	56089	64QAM	1	0	0	0	1	0	11.22	12.00
56640	56442	56640	64QAM	1	0	0	0	1	0	11.19	12.00
55340	55340	55538	256QAM	1	0	0	0	1	0	10.86	11.50
55990	55891	56089	256QAM	1	0	0	0	1	0	10.84	11.50
56640	56442	56640	256QAM	1	0	0	0	1	0	10.91	11.50
55340	55340	55538	QPSK	50	0	0	0	1	0	9.86	10.50
55990	55891	56089	QPSK	50	0	0	0	1	0	9.93	10.50
56640	56442	56640	QPSK	50	0	0	0	1	0	9.88	10.50

CA_66B											
Combination:10MHz+10MHz(50RB+50RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132072	132022	132121	QPSK	1	0	0	0	1	0	17.11	18.00
132322	132373	132472	QPSK	1	0	0	0	1	0	17.35	18.00
132572	132523	132622	QPSK	1	0	0	0	1	0	17.20	18.00
132072	132022	132121	16QAM	1	0	0	0	1	0	16.85	17.50
132322	132373	132472	16QAM	1	0	0	0	1	0	17.09	18.00
132572	132523	132622	16QAM	1	0	0	0	1	0	16.94	17.50
132072	132022	132121	64QAM	1	0	0	0	1	0	16.69	17.50
132322	132373	132472	64QAM	1	0	0	0	1	0	16.93	17.50
132572	132523	132622	64QAM	1	0	0	0	1	0	16.78	17.50
132072	132022	132121	256QAM	1	0	0	0	1	0	16.58	17.50
132322	132373	132472	256QAM	1	0	0	0	1	0	16.82	17.50
132572	132523	132622	256QAM	1	0	0	0	1	0	16.67	17.50
132072	132022	132121	QPSK	50	0	0	0	1	0	16.19	17.00
132322	132373	132472	QPSK	50	0	0	0	1	0	16.26	17.00
132572	132523	132622	QPSK	50	0	0	0	1	0	16.20	17.00

CA_66C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132072	132072	132270	QPSK	1	0	0	0	1	0	17.18	18.00
132322	132323	132521	QPSK	1	0	0	0	1	0	17.22	18.00
132572	132374	132572	QPSK	1	0	0	0	1	0	17.27	18.00
132072	132072	132270	16QAM	1	0	0	0	1	0	17.06	18.00
132322	132323	132521	16QAM	1	0	0	0	1	0	17.09	18.00
132572	132374	132572	16QAM	1	0	0	0	1	0	17.16	18.00
132072	132072	132270	64QAM	1	0	0	0	1	0	16.97	18.00
132322	132323	132521	64QAM	1	0	0	0	1	0	17.00	18.00
132572	132374	132572	64QAM	1	0	0	0	1	0	17.07	18.00
132072	132072	132270	256QAM	1	0	0	0	1	0	16.89	18.00
132322	132323	132521	256QAM	1	0	0	0	1	0	16.92	18.00
132572	132374	132572	256QAM	1	0	0	0	1	0	16.99	18.00
132072	132072	132270	QPSK	50	0	0	0	1	0	16.14	17.00
132322	132323	132521	QPSK	50	0	0	0	1	0	16.18	17.00
132572	132374	132572	QPSK	50	0	0	0	1	0	16.26	17.00